FINAL

ASBESTOS AND LEAD-BASED PAINT REMEDIATION PLAN
STOP 7 ½ NAVAL RESERVATION

ROOSEVELT ROADS REAL ESTATE
SAN JUAN, PUERTO RICO

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LIST OF ACRONYMS AND ABBREVIATIONS

AC	Actinolite
ACM	Asbestos-Containing Material
AHERA	Asbestos Hazard Emergency Response Act
AM	Amosite
AN	Anthophyllite
ASTM	American Society for Testing and Materials
Baker	Baker Environmental, Inc.
CFR	Code of Federal Regulations
CH	Chrysotile
CLEAN	Comprehensive Long-Term Environmental Action Navy
CR	Crocidolite
CTO	Contract Task Order
DIST	Distributed
DoD	Department of Defense
EBS	Environmental Baseline Study
EXITO	Environmental Exchange Information and Technologies
FBOP	Federal Bureau of Prisons
HUD	Housing and Urban Development
LANTDIV	Atlantic Division
LBP	Lead-Based Paint
LOCAL	Localized
MACM	Miscellaneous Asbestos-Containing Material
ND	Not Detected
NESHAP	National Emission Standard and Hazardous Air Pollutants
NFESC	Naval Facilities Engineering Service Center
NIST	National Institute of Standards and Technology
NLLAP	National Lead Laboratory Accreditation Program
NVLAP	National Voluntary Laboratory Accreditation Program
PLM	Polarized Light Microscopy
PREQB	Puerto Rico Environmental Quality Board
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	Resource Facility Investigation
ROBC	Reserve Officers Beach Club

LIST OF ACRONYMS AND ABBREVIATIONS
(Continued)

SACM	Surfacing Asbestos-Containing Material
SSP	Sample Strategy Plan
TSIAM	Thermal Systems Insulation Asbestos-Containing Material
US	United States
USEPA	United States Environmental Protection Agency
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

This Asbestos and Lead-Based Paint Remediation Plan presents Baker Environmental Inc.'s (Baker's) investigation results for Stop 7 ½ Naval Reservation, San Juan, Puerto Rico. This report has been prepared for the Atlantic Division (LANTDIV) Naval Facilities Engineering Command Contract Task Order (CTO) 0401 under the LANTDIV Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, Contract Number N62470-89-D-4814.

1.1 Purpose

The primary purpose of this report is to present the findings of the asbestos and lead-based paint survey activities conducted by Baker and a certified Puerto Rico lead-based paint (LBP) and asbestos subcontractor. This report also presents viable control options based upon the findings as well as, preliminary cost estimates for each of the control options.

1.2 Background

The United States (U.S.) Naval Compound, Stop 7 ½, is located in the Puerto de Tierra section of San Juan, Puerto Rico. Refer to Figure 1-1 for a site location map. The site consists of approximately 7.7 acres and is divided by Munoz Rivera Avenue. The site is bordered on the north by the Atlantic Ocean, on the South by Ponce De Leon Avenue, on the east by San Augustin Street, and on the west by Lugo Vinas Street. A complete layout of the site is presented on Figure 1-2.

The Department of the Army acquired this property by Executive Order in June 1903. The Navy has used the land since 1904. The land was officially transferred to the Navy in 1930. The Navy operated the land as a United States Naval Radio Station from 1930 to 1952 when the radio station operations were moved to Sebana Seca.

Fifteen existing buildings were identified at the site, including Buildings 28 through 31, Buildings 440 through 449, and Building 454. Buildings 28 through 31 and Building 454 are on the north side of Munoz Rivera Avenue adjacent to the Atlantic Ocean and are part of the Reserve Officers Beach Club (ROBC). Additional structures are also identified as Buildings 459, 460, and 461. These include a storage shed, the picnic pavilion, and the tennis courts. It should be noted that no

activities were reported at these structures. Building 30 is operated as Dumas Restaurant and is open to the public.

The remaining buildings and transformer area (concrete pad 455) are on the south side of Munoz Rivera Avenue and were being used by the Federal Bureau of Prisons (FBOP) for administrative offices and resident housing during the field investigation and sampling program for the asbestos and LBP survey conducted during March/April 2000. Six of these Buildings (440, 444, and 445 through 448) were used as residential dwellings by FBOP employees and their families, however, they are currently unoccupied. It should be noted that many of the buildings at Stop 7½ are typical "Art Deco" architecture, and are considered to be one of the few remaining architectural examples of its kind on the island. Table 1-1 provides a listing and description of the buildings and structures and Figure 1-2 is a Site Plan that depicts their locations.

1.3 Previous Investigation

Previous environmental investigations at the site included an Environmental Baseline Survey (EBS) in January 1995 and a Phase II EBS in April 1999. The initial EBS report referenced suspect asbestos containing material (ACM) in the form of vinyl floor tile in Buildings 30, 440, 441, 443, 448, and 449 and thermal pipe insulation in Buildings 443 and 448. However, asbestos samples were not collected during these investigations. It should also be noted that there was no LBP evaluation conducted as part of the initial or the Phase II EBS. However, the Phase II EBS references a July 16, 1998 two page Lead and Asbestos Bulk Sampling Report conducted at the premises. This report indicates that 10 asbestos bulk samples of suspect ACM were collected and 306 X-ray fluorescence (XRF) readings were taken for LBP. Results of this investigation indicated the following:

- Asbestos in the roof flashing of Building 447.
- Asbestos in thermal pipe insulation in Building 443.
- LBP on interior/exterior walls, ceramic floor tile, and ceiling tile in Buildings 445 and 447.
- LBP on exterior walls, ceramic floor tile, and ceiling tile of Building 446.

2.0 FIELD INVESTIGATION AND SAMPLING PROGRAM

This section describes the field investigation and sampling program for the asbestos and LBP survey conducted at Stop 7 ½ during March/April 2000. Field activities and standard operating procedures followed guidelines set forth in the Sample Strategy Plan (SSP) (Baker, 2000). The SSP described the proposed sampling and data collection methods for the LBP and asbestos survey. The SSP also ensured that sampling and data collection activities were carried out in accordance with the United States Environmental Protection Agency (USEPA), Naval Facilities Engineering Service Center (NFESC), Puerto Rico Environmental Quality Board (PREQB) and the Final Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Management Plans (Baker 1995) The Stop 7 ½ SSP (Baker 2000) was consulted as necessary for the following tasks:

- Lead-based paint inspection/sampling
- Asbestos inspection/sampling

The SSP described the buildings under investigation, sampling protocol, the anticipated number of samples, and sample identification procedures for the field investigation.

2.1 Lead-Based Paint Survey

The LBP survey was performed only in buildings designated for residential housing (Building 440 and Buildings 444 through 448). The LBP survey consisted of sampling and evaluating the condition of painted surfaces. The LBP sampling involved using a portable XRF analyzer and collecting wipe samples, chip samples, and soil samples. As part of the inspection, an inventory of the painted surfaces both interior and exterior were documented, as well as, surrounding surface soil.

A portable Niton™ XL-309 XRF analyzer was used to determine the presence of LBP in these residential buildings. The results of the XRF were documented on a survey form. The positive detection survey forms are included with the LBP Evaluation Report in Appendix A and include the building number, XRF sample number, substrate material description, paint color, wall location, condition and quantity of the paint, and any other pertinent information. Because of positive LBP detections a risk assessment was conducted to determine and report the existence,

nature, severity, and location of LBP hazards. The risk assessment included the dust wipe samples, paint chip samples, and soil samples.

Each of the lead (chip, wipe, and soil) samples were analyzed according to methods for total lead analysis specified in American Society for Testing and Materials (ASTM) Standards ES-28-94, ES-36-94 (or ES-37-94), and ES-1613-94. Analytical Environmental Services International, Inc. (AESI) performed the laboratory analysis for lead in the soil, dust, and paint chip samples. AESI is recognized in USEPA's National Lead Laboratory Accreditation Program (NLLAP) and has a Puerto Rico certified chemist on staff.

2.1.1 Lead-Based Paint Wipe Samples

Upon completion of the XRF analysis at each of the six residential buildings, wipe samples were collected to evaluate the buildings that were positive for LBP on the interior and had deteriorated and/or damaged areas of LBP. A total of 73 wipe samples of dust were collected from the six residential buildings and analyzed for lead at a Puerto Rico certified laboratory.

Wipe samples of dust were collected from interior window sills and floors in common living areas in accordance with the Housing and Urban Development (HUD) and Department of Defense (DoD) guidelines. This method included using a wet wipe to collect the sample from a pre-measured area, placing the wipe into a sealable glass container and logging the sample information. The wipe samples were collected prior to collecting the paint chip samples to prevent potential erroneous high readings from LBP particles that may have fallen below during the chip sampling procedure.

2.1.2 Lead-Based Paint Chip Samples

Positive XRF detections did not require chip samples to be collected and analyzed at a laboratory. A positive detection is a result indicated on the XRF that is equal to or greater than 1.0 milligram of lead per square centimeter (mg/cm^2).

A total of seven confirmatory paint chip samples were collected from three of the six residential buildings. These paint chip samples were used to confirm that the XRF readings in certain interior areas were negative, as indicated on the XRF, for lead and provide a higher level of confidence in the XRF data. Each

of the seven paint chip samples included all layers of paint to the substrate from a 2 inch x 2 inch measured area. Each sample was placed in a sealable plastic bag, and analyzed at a Puerto Rico certified laboratory.

2.1.3 Lead-Based Paint Soil Samples

Upon completion of the paint chip sampling, a lead investigation of bare surface soil was conducted around each of the residential buildings and two children play areas, a volleyball court and swing set. This sampling was conducted in accordance with the HUD and DoD guidelines. A total of eight lead soil samples were collected plus a quality control equipment blank and analyzed by a Puerto Rico certified laboratory.

The soil sampling included the collection of composite samples from the outside area of each residential building and the play areas. Between two and ten aliquot samples were collected from strategic locations surrounding each of the buildings and play areas and composited into one sample. Collection of aliquot soil samples included the first ½-inch of soil from the dripline/foundation and the midyard areas where bare soil is present. Each composite sample was made up of two or more aliquots, but did not exceed ten locations.

2.2 Asbestos Survey

An asbestos survey of the 15 existing buildings located on the property was conducted during March/April 2000. The asbestos survey was used to detail the location and approximate quantity of each suspect ACM. A total of 297 bulk asbestos samples were collected from the 15 buildings at Stop 7 ½ and the ROBC.

Independent sample analysis was provided by Laboratory Corporation of America, Analytics Group (Lab Corp). The bulk samples were analyzed for asbestos using polarized light microscopy (PLM) according to USEPA National Emission Standard and Hazardous Air Pollutants (NESHAP) regulations. Lab Corp is accredited with the standards set by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP).

Bulk samples were collected in accordance with the USEPA Asbestos Hazard Emergency Response Act (AHERA) procedures and practices. The typical sampling criteria for surfacing material was as follows:

Size of Homogeneous Sampling Area	Minimum Number of Samples
Less than 1,000 square feet	3
Between 1,000 and 5,000 square feet	5
Greater that 5,000 square feet	7

Typically, at least three random bulk samples per suspect thermal insulation and miscellaneous material were collected unless the inspector determined otherwise based on professional judgement. In addition, random building concrete and paint coatings were collected and analyzed for asbestos as requested by LANTDIV to eliminate any potential uncertainty with regard to areas suspected of containing ACM.

Each sample was recorded on an Asbestos Survey Form by the inspector. This form was used to record consistent information regarding the material in question. The survey form described the material sampled (surfacing material, thermal system insulation or miscellaneous material), condition of the material, location description, date and time, and any other pertinent information as deemed necessary by the inspector.

3.0 INVESTIGATION RESULTS

To facilitate a comprehensive understanding of the findings at the Stop 7 ½ Naval Reservation, the analytical results are discussed and are all inclusive for the media sampled as part of the asbestos and LBP investigation. As previously stated, the asbestos investigation was conducted throughout the 15 of the buildings associated with the property. Whereas, the lead-based paint investigation focused on the six buildings used as residential dwellings. Both investigations were conducted simultaneously in March/April 2000. The LBP investigation and risk assessment was performed by a subcontracted Puerto Rico based company, Environmental Exchange Information and Technologies (EXITO), that provided PREQB certified LBP Inspectors and a LBP Risk Assessor. The LBP inspector qualifications include being trained in a USEPA and PREQB certified training school and being registered in the Lead Office of Toxic Substance Control Program at PREQB. These individuals were also certified by Niton Corporation to operate the XRF Analyzer.

The asbestos investigation was performed by Baker and EXITO individuals, each certified as a USEPA Building Inspector/Management Planner. The certifications for the EXITO employees are contained within the LBP Report in Appendix A. The Baker employee certifications are contained within Appendix B.

3.1 Lead Investigation

The following provides a summary of the LBP investigation results. The lead investigation and risk assessment was conducted by EXITO and the complete evaluation report is provided in Appendix A. Details regarding each of the six buildings and the children play areas (swing set and volleyball court) are provided in Appendix A. The LBP Evaluation Report in Appendix A describes the findings for each area, control options and recommendations, associated costs to complete the control options, and support documentation. Therefore, this section will merely summarize significant findings from the LBP Evaluation Report.

The LBP Evaluation Report indicates that the exterior walls of all six residential buildings (Building 440 and Buildings 444 through 448) evaluated were found to be positive for LBP. The majority of interior walls in three of the buildings (Buildings 440, 444, and 448) were found to be positive for LBP. Two of the buildings were found to have only one interior wall positive for LBP (2nd floor stairwell of Building 447 and the 2nd floor den wall of 445).

The Baker field team interviewed Mr. Carlos Rivera, who works for the facilities group of the FBOP. Mr. Rivera indicated that he was in charge of the renovations for Buildings 445 through 447 during 1997. The renovations included power washing the complete interior of these buildings, plastering and painting the interior walls, and installing ceramic floor and wall tile. He indicated that the power washing basically stripped the paint off the wall surface.

The XRF readings were generally negative for lead on the interior walls of the three buildings that were power washed and generally positive in the three buildings that were not remodeled. This may indicate that the power washing removed the LBP on the interior walls of the three remodeled buildings.

3.1.1 Lead-Based Paint Wipe Samples

A LBP hazard is considered present, based on DoD guidelines, if lead concentrations exceed 40 micrograms per square foot ($\Phi g/ft^2$) on interior floors and/or 250 $\Phi g/ft^2$ on interior window sills. Buildings 440, 444, and 448 all had locations (floors and window wills) of wipe samples that exceeded the hazard criteria. Table 3-1 summarizes all of the wipe sample results with exceedences bolded.

3.1.2 Lead-Based Paint Chip Samples

Paint chip samples are acquired for inconclusive XRF readings. There were no reported inconclusive XRF readings during the lead survey. The seven paint chip samples were collected to confirm negative XRF readings and were all below 1 mg/cm^2. Refer to Table 3-2 for a summary of these results.

3.1.3 Lead-Based Paint Soil Samples

A potential LBP hazard is considered present, based on DoD guidelines, if lead concentrations exceed 400 milligrams per kilogram (mg/kg). The results of the LBP soil samples ranged from 195 mg/kg from the exterior bare soil areas of Building 446 to 2,190 mg/kg from the exterior bare soil areas of Building 444. Table 3-3 summarizes the soil samples results with exceedences bolded.

3.2 Asbestos Investigation

The asbestos inspection of the Stop 7 ½ property and ROBC was conducted from March 27 to April 3, 2000, by Baker and EXITO field teams. The following subsections present a general description of each building inspected for asbestos, the building components sampled for ACM, and the positive detections.

3.2.1 Buildings 28 and 29 ROBC Men's and Women's Bath House

Buildings 28 and 29 are used as the Men's and Women's Bath Houses, respectively and appear to be of identical or similar construction. The suspect building components in Buildings 28 and 29 sampled for asbestos included:

- plaster walls
- ceiling tile
- asphalt/tar type roofing materials (only Building 29 roofing material was inspected)

The roof of Building 28 could not be accessed at the time of the inspection. The only material exhibiting a positive detection for asbestos was the felt paper beneath the shingles on Building 29. The majority of the roofing material on Building 29 is covered with red shingles as is the adjacent Building 28. Approximately 30 percent of the shingles covering Building 29 have been replaced with a tan colored shingle.

The roofing material on Buildings 28 and 29 appear to be homogeneous, therefore, it is assumed that the felt roofing paper beneath the roof of Building 28 is also positive for asbestos as is the felt roofing material on Building 29. There are also shelters within the ROBC containing the red style shingle. Refer to Photograph Layout 3-1 to view the roofing material for Buildings 28 and 29. Figure 3-1 depicts the general layout of the buildings and the items identified as asbestos containing.

3.2.2 Building 30 ROBC Dumas Restaurant

The suspect building components in ROBC Dumas Restaurant, Building 30, sampled for asbestos included:

- wall plaster (basement)
- various types of ceiling tiles
- air conditioning unit insulation and associated tar adhesive
- building cement
- wall plaster board
- asphalt/tar type roofing materials

The only building component exhibiting a positive detection for asbestos was the roofing material which included the felt paper beneath the shingles.

Much of the roofing material on Building 30 appears to be homogeneous with the roofing material on Buildings 28 and 29. The felt roofing paper sampled from Building 29 was also positive for asbestos. Refer to Photograph Layout 3-2 to view the roofing material of Building 30. Figure 3-2 depicts the general layout of the building and the item identified as ACM.

3.2.3 Building 31 ROBC Maintenance Office

The asbestos inspection of the Maintenance Office, Building 31, did not identify any ACM. The only suspect material located and sampled was the roofing material. The roofing material sampled on Building 31 tested negative for asbestos. Refer to Photograph Layout 3-2 to view the roofing material of Building 31. Figure 3-3 depicts the general location and layout of the building.

3.2.4 Building 440 Unoccupied Resident Building

This building was previously used as the Commanding Officer's Quarters. The suspect building components in Building 440 that were sampled for asbestos included:

- wall plaster
- ceiling tiles

- vinyl floor tile and associated adhesive
- cove base adhesive
- kitchen sink coating
- asphalt/tar type roofing materials

A pipe chase within the first floor bedroom was also accessed and inspected. The copper piping within this chase was not insulated. The building components exhibiting positive detections for asbestos included the laundry room vinyl floor tile and associated adhesive and the coating on the kitchen sink. The remaining samples were negative for asbestos.

The vinyl floor tile, adhesive, and sink coating were all in good condition at the time of the field investigation. Refer to Photograph Layout 3-3 to view various photographs of Building 440. Figures 3-4 and 3-5 depict the first floor and second floor, floor plans for Building 440, respectively.

3.2.5 Building 441 Stop 7 ½ Administrative Office Space

Building 441 was used for administrative office space. The suspect building components in Building 441 sampled for asbestos included:

- vinyl floor tile and associated adhesive
- cove base adhesive
- ceiling tile
- air conditioning unit insulation
- tar adhesive
- carpet binding
- floor adhesive

Two rooms on the first floor and two rooms on the second floor were locked and could not be accessed during the time of the inspection. The FBOP security guard indicated that they did not have keys to these particular rooms and that three of these rooms have been used in the past as apartments for U.S. Naval personnel.

All the materials sampled tested negative for asbestos. Refer to Photograph Layout 3- 4 to view various locations within Building 441. Figures 3-6 and 3-7 depict the first floor and second floor, floor plans for Building 441 and the locations of the rooms that could not be accessed.

3.2.6 Building 442 Stop 7 ½ Former Radio Station Power House

Building 442 was previously used as the Radio Station Power House and was not in use at the time of the March/April 2000 inspection. The suspect building components in Building 442 sampled for asbestos included:

- window putty
- wall insulation
- roofing material
- structural cement

All the materials sampled tested negative for asbestos. Refer to Photograph Layout 3-5 to view Building 442. Figure 3-8 depicts the general layout of the building.

3.2.7 Building 443 Stop 7 ½ Former Message Center and Bunker

Building 443 was previously used as the Message Center and currently does not appear to be in use. This building consists of two floors. The suspect building components in Building 443 sampled for asbestos included:

- thermal pipe insulation
- acoustical ceiling tile and associated adhesive
- vinyl floor sheeting
- vinyl floor tile and associated adhesive
- wall and ceiling plaster board
- joint compound
- mechanical equipment gasket
- tank coating
- building concrete

The building components exhibiting positive detections for asbestos included the thermal pipe insulation, one foot by one foot vinyl floor tile and associated adhesive on the first floor, and 9 inch by 9 inch vinyl floor tile and associated adhesive on the second floor. The remaining samples were negative for asbestos.

The friable asbestos containing thermal pipe insulation on the first floor was located in Rooms 1, 2, 3, 6, 10, 11, and reportedly in 9, refer to Figure 3-9. Room 9 (Generator Room), was not accessible because the doorway has been permanently sealed to prevent entry. An interview with Mr. Gonzalez, a property resident and Warden for the FBOP, indicated that he enclosed the entrance to Room 9 with wall and ceiling board and joint compound to enclose the room because the generator air conditioning unit and associated piping insulation within this room contains damaged ACM. Additional information received from the Naval Station Roosevelt Roads (NSRR), Public Works Department (PWD) indicates that there is approximately 30 linear feet of asbestos containing pipe insulation associated with the generator equipment in this room, some of which is reported to be significantly damaged. The information from PWD also indicates that additional ACM within the Generator Room includes three vibration joints (no estimated size included) and approximately 480 square feet of vinyl floor tile and associated mastic.

Mr. Gonzalez also noted that he covered the one foot by one foot vinyl floor tile on the first floor with a vinyl floor sheeting because the tiles were found to contain asbestos. The one foot by one foot vinyl floor tile and the associated adhesive did test positive for asbestos and are located in Rooms 4, 5, 6, and 10, (refer to Figure 3-9). Beige 9 inch by 9 inch vinyl floor tile and associated adhesive in Room 1 of the second floor also tested positive for asbestos (refer to Figure 3-10). Refer to Photograph Layout 3-6 to view various photographs within this building.

3.2.8 Building 444 Stop 7 ½ Unoccupied Resident Building

Building 444 is a two story residential building that was unoccupied during the April/May 2000 investigation. The suspect building components in Building 444 sampled for asbestos included:

- vinyl floor tile and associated adhesive
- cove base adhesive
- kitchen sink adhesive
- window putty
- asphalt roofing material

The building components exhibiting positive detections for asbestos included one foot by one foot and nine inch by nine inch vinyl floor tile and adhesive in the utility room, sink coating in the kitchen, window putty from various locations, and the asphalt roofing material.

The vinyl floor tile in the utility room consists of three layers placed upon each other. The second and third layers of the floor tile tested positive for asbestos as well as the adhesive beneath the third layer. There was approximately ten square feet of damage to the top layer exposing the second layer. There is approximately four square feet of visible damage to the second layer of vinyl floor tile and approximately one square foot of visible damage to the third layer of vinyl floor tile.

A black mastic type material on the bottom of two stainless steel basins in the kitchen area, approximately 8 square feet, tested positive for asbestos. This material is non-friable and was in good condition.

The window putty that tested positive for asbestos is exposed in areas where windows are missing. Although the material is non-friable, there is significant damage to the exposed putty near the missing windows. These areas include the first floor living room and the second floor hall, bathroom, and bedrooms. It is assumed that the windows that are in place also have the same type of window putty beneath them.

The asphalt roofing material tested positive for asbestos. This roof is in disrepair as the asphalt is cracked and damaged. A small strip of tar coating above the outside ledge of the west second floor patio also tested positive for asbestos. This material is non-friable and appears to be in good condition.

Refer to Photograph Layout 3-7 to view various photographs of Building 444. Figures 3-11 and 3-12 present the layout of the first and second floor of this resident building.

3.2.9 Building 445 Stop 7 ½ Occupied/Unoccupied Resident Building

Building 445 is a two story residential building that has been subdivided into two units. During the April/May 2000 investigation the first floor unit was occupied and the second floor unit was unoccupied. The suspect building components in Building 445 sampled for asbestos included:

- wall plaster
- kitchen sink coating
- door stripping insulation
- cement building components

Note that the roof could not be safely accessed and, therefore, was not sampled. The roofing material may be suspect for asbestos based on the results from Buildings 444 and 447. All of these materials tested negative for asbestos. Refer to Photograph Layout 3-8 to view various pictures within Building 445. Figures 3-13 and 3-14 present the layout of the first and second floor of this resident building.

3.2.10 Building 446 Stop 7 ½ Occupied Resident Building

Building 446 is a two story residential building that has been subdivided into two units. During the April/May 2000 investigation families occupied both the first and second floor units. The suspect building components in Building 446 sampled for asbestos included:

- wall plaster
- kitchen sink coating
- cement building components

Note that the roof could not be safely accessed and was not sampled. All of these materials tested negative for asbestos. The roofing material may be suspect for asbestos based on the results from Buildings 444 and 447. Refer to Photograph Layout 3-9 to view various photographs within Building 446. Figures 3-15 and 3-16 present the layout of the first and second floor of this resident building.

3.2.11 Building 447 Stop 7 ½ Occupied Resident Building

Building 447 is a two story residential building that has been subdivided into two units. During the April/May 2000 investigation families occupied both the first and second floor units. The suspect building components in Building 447 sampled for asbestos included:

- wall plaster
- one foot by one foot vinyl floor tile and associated adhesive

- paint
- asphalt roofing material

The only building material exhibiting a positive detection for asbestos was the roofing material. The roofing material appears to have been resurfaced, enclosing the asbestos-containing layer. This roof appeared to be in good condition with no apparent damage.

The remaining materials tested negative for asbestos. Refer to Photograph Layout 3-10 to view various photographs within Building 447. Figures 3-17 and 3-18 present the layout of the first and second floor of this resident building.

3.2.12 Building 448 Stop 7 ½ Occupied/Unoccupied Resident Building

Building 448 is a two story residential building that has been subdivided into two units. During the April/May 2000 investigation the first floor unit was occupied and the second floor unit was unoccupied. The suspect building components in Building 448 sampled for asbestos included:

- one foot by one foot vinyl floor tile and associated adhesive
- mechanical equipment insulation
- mastic compound on insulation
- damper on air conditioning unit
- thermal pipe insulation
- ceiling tiles
- cove base adhesive
- carpet binding

Note that the roof could not be safely accessed and was not sampled. The roofing material may be suspect for asbestos based on the results from Buildings 444 and 447. The only building material exhibiting positive detections for asbestos was the thermal pipe insulation on the first floor.

The thermal pipe insulation was located in the kitchen, den, and both bedroom closets on the first floor. This friable material was wrapped in a jacket and painted. A small amount of damage was noted at the ends of the pipelines. Painted wooden pipe chases traverse through the living room, hallway, and bathroom. These pipe chases could not be accessed without causing damage to the

lead based paint. Therefore, it has been assumed for the square footage determination of this material that the pipes within the pipe chases are insulated with ACM.

The remaining materials tested negative for asbestos. Refer to Photograph Layout 3-11 to view various photographs within Building 448. Figures 3-19 and 3-20 present the layout of the first and second floor of this resident building.

3.2.13 Building 449 Stop 7 ½ Former Administrative Office/Community Garage

Building 449 is a one-story building that was previously used as an Administrative Office. At the time of the March/April 2000 investigation some of the rooms were empty and in disrepair while one room was being used for storage of various maintenance products. The suspect building components in Building 449 sampled for asbestos included:

- brown and tan one foot by one foot vinyl floor tile and associated adhesive
- paint
- building cement
- roofing material

All of these materials tested negative for asbestos. Refer to Photograph Layout 3-12 to view various photographs within Building 449. Figure 3-21 presents the floor plan of the building.

3.2.14 Building 454 ROBC Former Detection Systems Laboratory

Building 454 is a one story concrete structure that was previously used as a Detection Systems Laboratory. This is a small structure that is in disrepair, there are large holes broken into the concrete roof and walls of the structure. The suspect building components in Building 454 sampled for asbestos included only wire insulation. One wire insulation was part of the original electric wiring of the building and a second wire insulation was associated with two wall units of unknown purpose. The wire insulation of the two wall units tested positive for asbestos and consists of approximately three linear feet. There is significant damage associated with these units, the material is friable and exposed to weathering. The wire insulation associated with the original electric wiring of the building tested negative for asbestos. Refer to Photograph Layout 3-13 to view various photographs of Building 454. Figure 3-22 presents the floor plan of the building.

4.0 FINDINGS AND RESOURCE PLANNING

The following presents the general findings of the LBP and asbestos investigation and provides resource planning for the control options identified.

4.1 Lead-Based Paint Findings

The exteriors of all six residential buildings exhibited positive detections for LBP (Building 440 and Buildings 444 through 448). The interior walls of three of the buildings exhibited positive detections for LBP (Buildings 440, 444, and 448). A den wall of Building 445 and a wall in the stairway of Building 447 exhibited positive detections for LBP. Lead was detected in dust wipe samples in excess of 40 μg/sq. ft. in various locations within Buildings 440, 444, and 448 (both unit 448A and 448B), and at the entrance ways of Buildings 440, 444, 445, 448A and 448B. Lead was also detected in soil samples in excess of 400 mg/kg from the exterior bare soil areas of Building 444, 445, 447, and the swing set play area. Appendix A provides the detailed LBP Evaluation Report. Table 4-1 summarizes the LBP results for each of the areas investigated.

4.2 Lead-Based Paint Resource Planning

The following presents the estimated cost for the lead resource planning activities. The cost to remove all the deteriorated LBP from both the interior and exterior of the six residential structures is approximately $365,000. The cost to perform annual operation and maintenance activity to determine condition of the lead containing items that were in fair to good condition at the time of the field investigation in the residential structures is approximately $11,000. A cost range of $100,000 to $150,000, is the anticipated costs to encapsulate the LBP on the exterior of all six residential structures. The cost range of $291,000 is the estimated costs to totally remove the LBP on the exterior of all six residential structures. Appendix A provides the detailed LBP Evaluation Report with the detailed estimated resource planning information located within Appendix A.

4.3 Asbestos Findings

During the asbestos investigation the location and approximate quantity of each suspect ACM was documented on asbestos survey forms. These field notes were transferred to an electronic database to manage the information and present the results in tabular format. Results of the inspection are presented in Table 4-2. The information in Table 4-2 is grouped by building (from

lowest building number to the highest). For each building, the information is presented as follows:

- The first group contains any material identified during the asbestos inspection which was determined to be ACM by sample analysis.

- The second group contains any additional material identified during the asbestos inspection which was determined to be a non-asbestos material by sample analysis.

Headings on Table 4-2 are defined as follows:

INSPECTION DATE - Date when this location was visited by the Baker field team to conduct the asbestos inspection.

BUILDING NUMBER - Identifies each building included in the report.

HOMO. MATRL. NO. (Homogeneous Material Number) - Numerical designation assigned to each homogeneous material that is uniform in color and texture, serves the same function, and was installed at the same time.

MATERIAL TYPE/MATERIAL DESCRIPTION - Brief description of the material, followed by information on distinguishing characteristics which may include function, size, color, shape, etc., as necessary.

AHERA CAT. (AHERA Category) - SACM - Surfacing Asbestos-Containing Material; TSIACM - Thermal System Insulation Asbestos-Containing Material; MACM - Miscellaneous Asbestos-Containing Material.

MATERIAL LOCATION(S) - Location(s) of all asbestos and non-asbestos materials confirmed to be present by the March/April 2000 inspection. The material location(s) can be associated to the figures referenced in Section 3.0 of this report. These figures indicate room names or room numbers and layouts as they existed at the time of the March/April 2000 inspection. If a space within a building was not identified with a room name and materials were determined to be

present in that space, the Baker field team assigned the space with a number and recorded this number on the figure.

QTY. (Quantity) - Defined as linear footage (LF), square footage (SF), or number of each material contained in an area.

SAMPLE INFORMATION - Provides information pertinent to the material sample as follows:

- **NUMBER** - A unique identification number assigned to each material sample collected.

- **DATE** - Collection date for the sample.

- **RESULT** - Analytical information provided by the laboratory. For those samples which were determined to have asbestos, the percent and type of asbestos is identified. The abbreviations used for analytical results are:

AC = Actinolite	CH = Chrysotile
AM = Amosite	CR = Crocidolite
AN = Anthophyllite	TR = Tremolite

ND = "None Detected" - No asbestos was detected in the sample

The analytical reports for all samples collected during the March/April 2000 inspection are included in Appendix C of this report.

FRIABLE - A material is considered friable if, when dry, it may be crumbled, pulverized, or reduced to powder by hand pressure.

OVERALL CONDITION - Overall condition of the material is characterized as follows:

- **UNDAM. (Undamaged)** - The material is in visibly good condition with no apparent damage.

- **DAM. (Damaged)** - The material exhibits some damaged areas. In the case of localized damage, less than 25% of the material exhibits damage. In the case of distributed damage, less than 10% of the material exhibits damage.

- **SIG. DAM. (Significantly Damaged)** - The material exhibits extensive damage. In the case of localized damage, equal to or greater than 25% of the material exhibits extensive damage. In the case of distributed damage, equal to or greater than 10% of the material exhibits extensive damage.

If the material is damaged or significantly damaged, the distribution of the damage will be assessed as either Localized (LOCAL) or Distributed (DIST.).

ACCESS. (Accessibility) - A rating placed on a material which considers the accessibility for potential contact. It is ranked into one of three categories:

- **HIGH** - The material is readily accessible to the occupants of the building or the material is located "inside" the ventilation system.

- **MED** - The material is not so readily accessible to building occupants or is only accessible to custodial and maintenance personnel (e.g., boiler rooms, storage areas, mechanical rooms, etc.)

- **LOW** - The material is not easily accessible to people (e.g., tunnels, crawl spaces, plumbing access areas, etc.)

USEPA ASS. CAT. (USEPA Assessment Category) - A damage classification from 1 to 7 as defined by the AHERA for known or suspect ACM:

1. Damaged or Significantly Damaged Thermal System Insulating ACM
2. Damaged Friable Surfacing ACM
3. Significantly Damaged Friable Surfacing ACM
4. Damaged or Significantly Damaged Friable Miscellaneous ACM
5. ACM with the Potential for Damage
6. ACM with a Potential for Significant Damage
7. Any Remaining Friable ACM or Friable Suspected ACM

N/A Any Remaining Material Assessed and Found to be Not Applicable to Any of the Seven Previous Categories

MANAGEMENT ACTION - The recommended action based on the USEPA assessment category and on the judgement of the inspector based on activities of the occupants. For each asbestos material, at least one of the following management actions pertaining to all or portions of the material will be selected:

- **ENCLOSE** - Installation of an airtight, impermeable, permanent barrier around the ACM.

- **ENCAPSULATE** - Treatment of ACM with a penetrating or surface sealant in order to minimize the potential for fiber release.

- **O&M** - A program of work practices to maintain ACM in good condition, ensure clean-up of asbestos fibers previously released, and prevent further release by minimizing and controlling ACM disturbance or damage.

- **REMOVE** - Removal of ACM from a damaged area, a functional space, or a homogeneous area as indicated.

- **REPAIR** - Returning damaged ACM to an undamaged condition.

COMMENTS - Additional comments may be provided to further describe the location or condition of materials, clarify sample results, or amplify the recommended management action.

The following table columns contain information only if the material tested positive for asbestos during the inspection:

- Friable
- Overall Condition
- Accessibility
- EPA Assessment Category
- Management Action

4.4 Asbestos Resource Planning

The cost for the asbestos resource planning is presented in two separate formats. The first cost of approximately $49,200 includes the repair/removal recommended management action. Table 4-3 defines the estimated resources required to carry out the recommended management actions for all homogeneous areas found to contain ACM. These recommendations include repairing the friable thermal pipe insulation in Resident Building 448 and the Message Center Building 443.

The second cost of approximately $426,400 includes the complete abatement of all identified ACM. Note that complete abatement is not required to transfer the property. Table 4-4 defines the estimated resources required to carry out a complete removal action for all ACM identified. The abatement costs for the friable asbestos thermal pipe insulation is approximately $5,000 for Building 448, if asbestos is located in the pipe chases that could not be accessed without causing damage to the lead-based paint. This cost would be less if no insulation is located in the pipe chases that could not be accessed. The abatement of all the noted friable asbestos in Building 443 is approximately $18,220.

To assist in understanding the information provided in Tables 4-3 and 4-4, a description of each column heading is included below.

BUILDING NUMBER - Identifies each building included in the report.

HOMO. MATRL. NO. (Homogeneous Material Number) - Numerical designation assigned to each homogeneous material that is uniform in color and texture, serves the same function, and was installed at the same time.

MATERIAL TYPE/MATERIAL DESCRIPTION - Brief description of the material, followed by information on distinguishing characteristics which may include function, size, color, shape, etc., if necessary.

MATERIAL LOCATION(S) – Short description detailing the specific location of the homogeneous material area.

ABATEMENT ITEM – Numerical designation assigned to each item required to carry out the management action. Note: Appendix D is an Abatement Item Listing providing a detailed description of each abatement item.

UNIT COST – Estimated unit cost associated with each abatement item. Note: Appendix D is an Abatement Item Listing providing a detailed description of each abatement item.

ESTIMATED QUANTITY – Estimated quantity of the abatement item required to perform the task.

ITEM COST – Management action cost obtained by multiplying UNIT COST by QUANTITY.

ESTIMATED MATERIAL COST – Estimated total cost for each asbestos material obtained by adding all ITEM COSTS for each material.

5.0 REFERENCES

Baker Environmental, Inc. (Baker) 2000. Final Sample Strategy Plan, Site Investigation, Stop 7 ½ Naval Reservation. March 2000. Coraopolis, Pennsylvania.

Baker. 1995. Final RCRA Facility Investigation Management Plans, Naval Station Roosevelt Roads, Ceiba, Puerto Rico. September 1995. Coraopolis, Pennsylvania.

ICF Kaiser 1995. Environmental Baseline Survey, Stop 7 ½ Naval Reservation, San Juan, Puerto Rico. January 1995.

Program Management Company 1999. Phase II Environmental Baseline Survey, Stop 7 ½ Naval Reservation, San Juan, Puerto Rico. April 1999.

U.S. Environmental Protection Agency and Department of Defense. 1999. Interim Final Lead-Based Paint Guidelines for Disposal of Department of Defense Residential Real Property – A Field Guide. December 1999.

TABLES

TABLE 1-1
BUILDING LISTING AND DESCRIPTION

STOP 7 ½, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building Number	Construction Date	General Use	Comments
28	1945	Men's Bath House	One story.
29	1941	Women's Bath House	One story.
30	1944	Dumas Restaurant	Public restaurant.
31	1941	Maintenance Office	Concrete attachment to the side of Building 29.
440	1938	Former Commanding Office's Quarters	Unoccupied two story housing in disrepair.
441	1938	Former Administrative Offices	Unoccupied two-story housing in disrepair.
442	1938	Former Radio Station Power House	One story. Transformer Pad 455 attached to north side. Unoccupied and in disrepair.
443	1942	Former Message Center and Bunker, Training and Material Storage	Two-story building. Mechanical equipment not in operation, appears unoccupied. Resident, Mr. Gonzalez, uses first floor for general storage area.
444	1938	Housing, Unoccupied	Unoccupied two story housing in disrepair.
445	1938	Resident Housing	Two-story building, 1st floor occupied, 2nd floor unoccupied. Remodeled in 1997.
446	1938	Resident Housing	Two-story building, both floors occupied by families. Remodeled in 1997.
447	1938	Resident Housing	Two-story building, both floors occupied by families. Remodeled in 1997.
448	1938	Resident Housing	Two-story building, 1st floor occupied, 2nd floor unoccupied. Remodeled in 1997.
449	1938	Carpenter Shop and Community Garage	One-story. Unoccupied as an administrative office.
454	1953	Former Detection Systems Lab, Abandoned	One-story. There is electrical conduit inside; the building is partially demolished and empty.
459	Unknown	Storage Shed	Small structure east of Building 31.
460	Unknown	Picnic Pavilion	This structure has asphalt roofing.
461	Unknown	Tennis Courts	

TABLE 3-1
LBP DUST WIPE SAMPLE RESULTS

STOP 7 1/2, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building Number	Sample I.D.	Sample Description	Lead Results ug/sq.ft.
440	D-440-01	Living Room, Floor	**61.1**
440	D-440-02	Living Room, Interior Window Sill	<64.8
440	D-440-03	Kitchen, Floor	**194**
440	D-440-04	Kitchen, Interior Window Sill	<64.8
440	D-440-05	Room No. 2, Floor	**145**
440	D-440-06	Room No. 2, Interior Window Sill	<64.8
440	D-440-07	Room No. 3, Floor	**88.1**
440	D-440-08	Room No. 3, Interior Window Sill	<64.8
440	D-440-09	Front Entrance, Floor	**52.4**
440	D-440-10	Back Porch Entrance, Floor	**76.3**
440	D-440-11	Central, Floor	<8.00
444	D-444-01	Living Room, Floor	**1570**
444	D-444-02	Living Room, Interior Window Sill	**944**
444	D-444-03	Kitchen, Floor	**323**
444	D-444-04	Kitchen, Interior Window Sill	**401**
444	D-444-05	Room No. 1, Floor	**314**
444	D-444-06	Room No. 1, Interior Window Sill	<64.8
444	D-444-07	Room No. 3, Floor	**2280**
444	D-444-08	Room No. 3, Interior Window Sill	<64.8
444	D-444-09	Front Entrance, Floor	**432**
444	D-444-10	Porch Entrance, Floor	**478**
444	D-444-11	Porch, Exterior Window Sill	**1120**
444	D-444-12	Den 1st. Floor	**469**
444	D-444-13	Den 1st. Floor, Interior Window Sill	<64.8
444	D-444-14	Foyer 2nd. Floor	**422**
444	D-444-15	Central Interior Window Sill	<64.8
448	D-448A-1	Den, Floor	<8.00
448	D-448A-2	Den, Interior Window Sill	**334**
448	D-448A-3	Kitchen, Floor	<8.00
448	D-448A-4	Kitchen, Interior Window Sill	<64.8
448	D-448A-5	Room 2, Floor	**54.8**
448	D-448A-6	Room 2, Interior Window Sill	<64.8
448	D-448A-7	Porch Entrance, Front A, Floor	**64.2**
448	D-448A-8	Porch Entrance, Front A, Interior Window Sill	122
448	D-448A-9	Living Room, Floor	<8.00
448	D-448A-10	Living Room, Interior Window Sill	<64.8
448	D-448A-11	Hallway, Floor	**799**

NOTE: LEAD HAZARDS EXIST IF CONCENTRATIONS EXCEED 40 MICROGRAMS PER SQUARE FOOT (ug/sq. ft.) FOR INTERIOR FLOORS AND 250 ug/sq. ft. FOR INTERIOR WINDOW SILLS.

TABLE 3-1
LBP DUST WIPE SAMPLE RESULTS

STOP 7 1/2, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building Number	Sample I.D.	Sample Description	Lead Results ug/sq.ft.
448	D-448A-12	Central, Floor	<8.00
448	D-448B-01	Living Room, Floor, carpet	**43.6**
448	D-448B-02	Living Room, Interior Window Sill	211
448	D-448B-03	Kitchen, Floor	29.0
448	D-448B-04	Kitchen, Interior Window Sill	15.2
448	D-448B-05	Room No. 1, Floor	38.7
448	D-448B-06	Room No. 1, Interior Window Sill	175
448	D-448B-07	Room No. 2, Floor	25.7
448	D-448B-08	Room No. 2, Interior Window Sill	163
448	D-448B-09	Den, Floor	12.0
448	D-448B-10	Den, Interior Window Sill	111
448	D-448B-11	Control, Floor	<8.00
440	ED-440-01	Exterior Front Entrance Side A	**138**
440	ED-440-02	Exterior Back Entrance Side C	**260**
440	ED-440-03	Exterior Side Entrance Side B	17.7
444	ED-444-04	Exterior Front Entrance Side A	**620**
444	ED-444-05	Exterior Back Entrance Side C	**450**
444	ED-444-06	Exterior Side Entrance Side B	**595**
445	ED-445A-07	Exterior Front Entrance Side A	20.3
445	ED-445A-08	Exterior Back Entrance Side C	**92.0**
445	ED-445B-09	Interior 2nd. Floor Stairway Foyer Side A	8.1
445	ED-445B-10	Interior 1st. Floor Stairway Foyer Side B	17.9
446	ED-446A-11	Exterior Front Entrance Side A	17.4
446	ED-446B-12	Interior 1st. Floor Stairway Foyer Side B	21.0
446	ED-446B-13	Interior 2nd. Floor Stairway Foyer Side A	14.2
447	ED-447A-14	Exterior Front Entrance Side A	26.1
447	ED-447A-15	Exterior Back Entrance Side B	27.3
447	ED-447B-16	Interior Front 1st. Floor Stairway Foyer Side B	29.0
447	ED-447B-17	Interior 2nd. Floor Stairway Foyer Side A	24.4
447	ED-447B-18	Exterior 2nd. Floor Wood Deck Entrance Side B	20.7
447	ED-447B-19	Exterior 1st. Fl. Deck Stairway Entrance Side B	16.4
448	ED-448A-20	Exterior Front Entrance Side A	**114**
448	ED-448A-21	Interior Side Entrance Side D	**63.3**
448	ED-448B-22	Interior 1st. Floor Stairway Foyer Side A	**216**
448	ED-448B-23	Interior 2nd. Floor Stairway Foyer Side A	29.8
440	ED-440C-24	Control, 1st. Floor, 400C	0.0874

NOTE: LEAD HAZARDS EXIST IF CONCENTRATIONS EXCEED 40 MICROGRAMS PER SQUARE FOOT (ug/sq. ft.) FOR INTERIOR FLOORS AND 250 ug/sq. ft. FOR INTERIOR WINDOW SILLS.

TABLE 3-2
LBP PAINT CHIP SAMPLE RESULTS

STOP 7 1/2, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building Number	Sample I.D.	Sample Description	Lead Results mg/cm2
440	P-440-01	Dining Room, Wall A (2" X 2")	0.492
440	P-440-02	Living Room, Wall B (2" X 2")	0.438
444	P-444-01	Room No. 1, (Conf.) Wall C (2" X 2")	0.366
444	P-444-02	Room No. 3 (Det) Wall C (2" X 2")	0.002
448	P-448A-01	Kitchen, Wall D (2" X 2")	0.480
448	P-448A-02	Living Room, Wall B (2" X 2")	0.186
448	P-448A-03	Den, Wall B (2" X 2")	0.396

NOTE: LEAD-BASED PAINT (LBP) EXISTS IF CONCENTRATIONS EXCEED 1.0 MILLIGRAM PER SQUARE CENTIMETER (mg/cm^2).

TABLE 3-3
LBP SOIL SAMPLE RESULTS

STOP 7 1/2, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Location	Sample I.D.	Sample Description	Lead Results mg/kg
Building 440	S-440-01	Building Perimeter	229
Building 444	S-444-01	Building Perimeter	**2190**
Building 445	S-445-01	Building Perimeter	**736**
Building 446	S-446-01	Building Perimeter	195
Building 447	S-447-01	Building Perimeter	**726**
Building 448	S-448-01	Building Perimeter	225
Swing Set	S-SW-01	Children's Play Area	**792**
Volley Ball Court	S-VB-01	Children's Play Area	287
- - - - -	Equipment Blank	Equipment Blank	<0.06

NOTE: LEAD SOIL HAZARDS EXIST IF SAMPLE CONCENTRATIONS EXCEED 400 MILLIGRAMS PER KILOGRAM (mg/kg).

TABLE 4-1
LEAD-BASED PAINT RESIDENT BUILDING
AND AREA SUMMARY

STOP 7 ½, NAVAL RESERVATION
SAN JUAN, PUERTO RICO

AREA	POSITIVE LBP ON WALLS	LEAD RESULTS IN SOIL (mg/kg)	COMMENTS
Building 440	Interior and exterior walls	229	Interior paint is in poor condition, the exterior is fair to poor, and the exterior trim is in poor condition.
Building 444	Interior and exterior walls	2,190	Interior paint is in poor condition, the exterior is fair to poor, and the exterior trim is in poor condition.
Building 445	One interior 2nd floor den wall and the exterior walls	736	This building was remodeled during 1997. The interior paint on the den wall is in good condition and the exterior paint is in fair to poor condition.
Building 446	The exterior walls	195	This building was remodeled during 1997. The exterior paint is in fair to poor condition.
Building 447	One wall on the 2nd floor stairwell wall and exterior walls	726	This building was remodeled during 1997. The exterior paint is in fair to poor condition
Building 448	Interior and exterior walls	225	The interior paint is in fair condition and the exterior walls are in fair to poor condition.
Swing Set	NA	792	North of Building 444
Volley Ball Court	NA	287	North of Building 440

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
MEN'S BATH HOUSE

INSPECTION DATE: 04/03/00
BUILDING NUMBER: 028

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 028													
001	WALL PLASTER (WHITE)	SACM	ROOMS 1 AND 2	510 SF	0400-028-001A 0400-028-001B	04/03/00 04/03/00	ND ND						THIS MATERIAL IS LOCATED ON THE NORTHWEST AND SOUTH WALLS.
004	ASPHALTIC ROOFING MATERIALS (RED TAR SHINGLES)	MACM	ROOF	1105 SF	0400-028-004A	04/03/00	ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
WOMEN'S BATH HOUSE

INSPECTION DATE: 04/03/00
BUILDING NUMBER: 029

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE / MATERIAL DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 029													
004	ASPHALTIC ROOFING MATERIALS (TAR PAPER)	MACM	ROOF	1105 SF	0400-029-004A	04/03/00	5% CH	NO	DAM./DIST.	LOW	6	REPAIR O&M	THERE APPEARS TO BE APPROXIMATELY 35% DAMAGE (350 SQ FT). QUANTITY INCLUDES BOTH BUILDINGS 28 AND 29 (HOMOGENEOUS MATERIAL).
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 029													
001	CEILING TILES	MACM	ROOM 1	300 SF	0400-029-001A 0400-029-001B 0400-029-001C	04/03/00 04/03/00 04/03/00	ND ND ND						DAMAGED CEILING TILE ABOVE EXISTING WOOD CEILING.
002	CEILING TILES (WHITE SURFACED WITH BROWN CELLULOSE BACKING)	MACM	ROOM 1	SF	0400-029-002A	04/03/00	ND						
003	ASPHALTIC ROOFING MATERIALS (TAN SHINGLES AND TAR PAPER)	MACM	ROOF	150 SF	0400-029-003A 0400-029-003B	04/03/00 04/02/00	ND ND						THIS MATERIAL IS FROM PATCHED AREA ON WEST SIDE OF ROOF.
005	ASPHALTIC ROOFING MATERIALS (DARKER RED ROOF/TAR PAPER)	MACM	ROOF	1105 SF	0400-029-005A 0400-029-005B	04/03/00 04/03/00	ND ND						THE DARKER RED SHINGLE IS BENEATH THE TOP LAYER OF SHINGLES.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
DUMAS RESTAURANT

INSPECTION DATE: 03/29/00
BUILDING NUMBER: 030

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION NUMBER	SAMPLE INFORMATION DATE	SAMPLE INFORMATION RESULT	FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 030													
012	ASPHALTIC ROOFING MATERIALS (FELT TAR)	MACM	ROOF	6450 SF	0300-030-012A 0300-030-012A	03/29/00 03/29/00	5% CH 5% CH	NO	UNDAM.	LOW	5	O&M	FELT PAPER IS UNDER SHINGLES. A SAMPLE FROM A ROLL OF PAPER WAS COLLECTED (SAMPLE 010 IN BUILDING 030).
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 030													
001	MECHANICAL EQUIPMENT INSULATION (BLACK FOAM AIR CONDITIONING INSULATION)	TSIACM	DINING ROOM	250 LF	0300-030-001A 0300-030-001B 0300-030-001B	03/29/00 03/29/00 03/29/00	ND ND ND						THIS MATERIAL IS FOAM PIPE INSULATION WRAP ON COPPER TUBING.
002	WALL ADHESIVE (BLACK TAR)	MACM	DINING ROOM	15 LF	0300-030-002A 0300-030-002B 0300-030-002C	03/29/00 03/29/00 03/29/00	ND ND ND						THIS IS AN ADHESIVE TYPE MATERIAL TO HOLD FOAM INSULATION TOGETHER AT VARIOUS POINTS.
003	CEMENT WALL PANELS (CONCRETE)	MACM	BUILDING	10000 SF	0300-030-003A 0300-030-003B 0300-030-003C	03/29/00 03/29/00 03/29/00	ND ND ND						
004	CEILING TILES (2' X 2' AND 2' X 4' WHITE PAINT OVER BROWN FIBERBOARD)	MACM	DINING ROOMS 1 AND 2 AND HALLWAY	940 SF	0300-030-004A 0300-030-004B 0300-030-004C	03/29/00 03/29/00 03/29/00	ND ND ND						TWO DIFFERENT SIZES OF CEILING TILE, SAME MATERIAL, BUT SAMPLED SEPARATELY.
005	CEILING TILE ADHESIVE (WHITE LAYER ON FIBERGLASS CEILING TILE)	MACM	DINING ROOM 2	12 SF	0300-030-005A 0300-030-005B 0300-030-005C	03/29/00 03/29/00 03/29/00	ND ND ND						THIS MATERIAL IS LOCATED NEAR AIR CONDITIONING UNITS MOUNTED UNDER SUSPENDED CEILING.
006	WALL PLASTER (PLASTER BOARD)	SACM	DINING ROOMS 1 AND 2 AND HALLWAY	200 SF	0300-030-006A 0300-030-006B 0300-030-006C	03/29/00 03/29/00 03/29/00	ND ND ND						IN 1989 THE PLASTER WAS INSTALLED AFTER HURRICANE HUGO. DAMAGED AREA IS NEAR KITCHEN.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
DUMAS RESTAURANT

INSPECTION DATE: 03/29/00
BUILDING NUMBER: 030

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
007	CEMENT WALL PANELS	SACM	STORAGE AREA	500 SF	0300-030-007A	03/29/00	ND						DIFFICULT TO QUANTIFY. MAY BE THROUGHOUT STRUCTURE OF BUILDING.
008	WALL PLASTER (WHITE, TROWELED ON)	SACM	BASEMENT	1800 SF	0300-030-008A 0300-030-008B 0300-030-008C	03/29/00 03/29/00 03/29/00	ND ND ND						BASEMENT WAS REFINISHED IN 1989 AFTER HURRICANE HUGO. THE STAIRWAY ON WEST SIDE IS INACCESSIBLE.
009	ASPHALTIC ROOFING MATERIALS (FELT COVERING)	MACM	STORAGE ROOM	200 SF	0300-030-009A	03/29/00	ND						THIS SAMPLE WAS TAKEN FROM AN EXTRA ROLL .
010	ASPHALTIC ROOFING MATERIALS (RED SHINGLE)	MACM	ROOF	2580 SF	0300-030-010A	03/29/00	ND						THE DIMENSIONS OF THE SHINGLES ARE 86' X 30'. THERE ARE THREE TYPES OF SHINGLES ON THE ROOF: RED, GREEN, AND WHITE.
011	ASPHALTIC ROOFING MATERIALS (GREEN SHINGLE)	MACM	ROOF	2150 SF	0300-030-011A	03/29/00	ND						THERE ARE THREE TYPES OF SHINGLES ON THE ROOF: RED, GREEN, AND WHITE.
013	ASPHALTIC ROOFING MATERIALS (WHITE ROOFING SHINGLE)	MACM	ROOF	1720 SF	0300-030-013A 0300-030-013B 0300-030-013C	03/29/00 03/29/00 03/29/00	ND ND ND						THE DIMENSION OF THE SHINGLES ARE 86' X 20'.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
MAINTENANCE OFFICE

INSPECTION DATE: 04/03/00
BUILDING NUMBER: 031

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE MATERIAL DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 031													
001	ASPHALTIC ROOFING MATERIALS (TAR ROOF)	MACM	ROOF	464 SF	0400-031-001A 0400-031-001B 0400-031-001C	04/30/00 04/30/00 04/30/00	ND ND ND						DAMAGED AREA ON NORTHWEST CORNER OF ROOF.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 03/30/00
BUILDING NUMBER: 440A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 440A													
004	VINYL FLOOR TILE (1' X 1' TAN)	MACM	LAUNDRY ROOM	121 SF	0300-440A-004A 0300-440A-004B 0300-440A-004C	03/30/00 03/30/00 03/30/00	10% CH 10% CH 10% CH	NO	UNDAM.	LOW	5	O&M	THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 005 IN 440A.
005	FLOOR ADHESIVE (BLACK)	MACM	LAUNDRY ROOM	121 SF	0300-440A-005A 0300-440A-005B 0300-440A-005C	03/30/00 03/30/00 03/30/00	30% CH 30% CH 30% CH	NO	UNDAM.	LOW	5	O&M	THIS IS THE ADHESIVE FOR MATERIAL 004 IN 440A.
007	SINK COATING (BLACK GRANULAR)	MACM	KITCHEN	8 SF	0300-440A-007A 0300-440A-007B 0300-440A-007C	03/30/00 03/30/00 03/30/00	10% CH 10% CH 10% CH	NO	UNDAM.	LOW	5	O&M	8 SF EQUALS 1 EACH.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 440A													
001	CEILING TILES (SUSPENDED)	MACM	KITCHEN, PANTRY, AND LAUNDRY	SF	0300-440A-001A 0300-440A-001B 0300-440A-001C	03/30/00 03/30/00 03/30/00	ND ND ND						
002	VINYL FLOOR TILE (BROWN ON BEIGE)	MACM	LAUNDRY ROOM	121 SF	0300-440-002A 0300-440-002B 0300-440-002C	03/30/00 03/30/00 03/30/00	ND ND ND						
003	FLOOR ADHESIVE	MACM	LAUNDRY ROOM	121 SF	0300-440A-003A 0300-440A-003B	03/30/00 03/30/00	ND ND						THIS IS THE ADHESIVE FOR MATERIAL 002 IN 440A.
006	COVE BASE ADHESIVE (BLACK, UNDER BROWN COVE BASE)	MACM	LAUNDRY ROOM	120 SF	0300-440A-006A 0300-440A-006B 0300-440A-006C	03/30/00 03/30/00 03/30/00	ND ND ND						
008	WALL PLASTER (WHITE)	SACM	LIVING ROOM, CLOSED PORCH, BEDROOMS, AND 2ND FLOOR CORRIDOR	1010 SF	0300-440A-008A 0300-440A-008B 0300-440A-008C	03/30/00 03/30/00 03/30/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 03/30/00
BUILDING NUMBER: 440B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 440B													
001	ASPHALTIC ROOFING MATERIALS (TAR ROOF MATERIAL)	MACM	ROOF	1290 SF	0300-440B-001A 0300-440B-001B 0300-440B-001C	03/30/00 03/30/00 03/30/00	ND ND ND						THE TAR ROOF IS CRACKED AND WEATHERED.
002	CAULK (WHITE)	MACM	BEDROOMS 1 AND 2	100 LF	0400-440B-002A 0400-440B-002B 0400-440B-002C	04/02/00 04/02/00 04/02/00	ND ND ND						THERE IS SIGNIFICANT DAMAGE IN BEDROOMS 1 AND 3 OF THE SECOND FLOOR.
003	JOINT COMPOUND (AROUND WINDOWS)	MACM	BEDROOM 2	30 LF	0400-440B-003A 0400-440B-003B 0400-440B-003C	04/02/00 04/02/00 04/02/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
ADMINISTRATIVE OFFICE SPACE

INSPECTION DATE: 04/02/00
BUILDING NUMBER: 441

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 441													
001	VINYL FLOOR TILE (BROWN AND BEIGE ON OFF-WHITE)	MACM	FIRST AND SECOND FLOORS	7000 SF	0400-441-001A 0400-441-001B 0400-441-001C	04/02/00 04/02/00 04/02/00	ND ND ND						THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 002 IN 441.
002	FLOOR ADHESIVE (BLACK)	MACM	FIRST AND SECOND FLOORS	7000 SF	0400-441-002A 0400-441-002B 0400-441-002C	04/02/00 04/02/00 04/02/00	ND ND ND						THIS IS THE ADHESIVE FOR MATERIAL 001 IN 441.
003	COVE BASE ADHESIVE (BLACK)	MACM	FIRST AND SECOND FLOORS	600 LF	0400-441-003A 0400-441-003B 0400-441-003C	04/02/00 04/02/00 04/02/00	ND ND ND						
004	CEILING TILES (2' X 4' WHITE)	MACM	FIRST AND SECOND FLOORS	7000 SF	0400-441-004A 0400-441-004B 0400-441-004C	04/02/00 04/02/00 04/02/00	ND ND ND						THERE ARE NO MECHANICAL SYSTEMS OPERATING IN THIS BUILDING.
005	ASPHALTIC ROOFING MATERIALS (BLACK TAR)	MACM	THROUGHOUT BUILDING	1200 SF	0400-441-005A 0400-441-005B 0400-441-005C	04/02/00 04/02/00 04/02/00	ND ND ND						THIS IS BLACK TAR ON SILVER WRAPPED DUCT INSULATION.
006	CARPET (DARK BLUE/GRAY CARPET)	MACM	ROOM 4	300 SF	0400-441-006A 0400-441-006B 0400-441-006C	04/02/00 04/02/00 04/02/00	ND ND ND						
007	CARPET (RUST COLOR)	MACM	ROOM 8	250 SF	0400-441-007A	04/02/00	ND						
008	MECHANICAL EQUIPMENT INSULATION (SILVER PAPER COVERING FIBERGLASS)	TSIACM	ALL ROOMS	16000 SF	0400-441-008A	04/02/00	ND						THE A/C UNIT WAS NOT OPERATING. THERE IS 2" THICK FIBERGLASS WITH SILVER PAPER OUTER COVERING THAT INSULATED THE A/C DUCT WORK. THE INSULATION IS 2' X 4' WITH 2,000 LF.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
ADMINISTRATIVE OFFICE SPACE

INSPECTION DATE: 04/02/00
BUILDING NUMBER: 441

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
009	FLOOR ADHESIVE (TACKY TAN)	MACM	STAIRWELL	108 SF	0400-441-009A 0400-441-009B 0400-441-009C	04/02/00 04/02/00 04/02/00	ND ND ND						THIS MATERIAL IS LOCATED BENEATH THE STEP TREADS THAT LEAD FROM THE FIRST TO SECOND FLOOR ON THE SOUTH SIDE OF THE BUILDING.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
TRAINING AND MATERIALS STORAGE

INSPECTION DATE: 03/31/00
BUILDING NUMBER: 442

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 442													
001	CAULK (WINDOW PUTTY)	MACM	ALL ROOMS	81 SF	0300-442-001A 0300-442-001B 0300-442-001C	03/31/00 03/31/00 03/31/00	ND ND ND						THERE ARE NINE WINDOWS WITH DAMAGED PUTTY.
002	CEMENT WALL (CEMENT STRUCTURE)	MACM	VARIOUS LOCATIONS	SF	0300-442-002A	03/31/00	ND						
003	DOOR INSULATION (HORSE HAIR INSULATION)	MACM	SOUTH DOOR FRAME	32 LF	0300-442-003A 0300-442-003B 0300-442-003C	03/31/00 03/31/00 03/31/00	ND ND ND						
004	ASPHALTIC ROOFING MATERIALS (TAR TYPE COATING)	MACM	ROOF	240 SF	0400-442-004A	04/02/00	ND						THIS MATERIAL IS LOCATED ONLY AROUND EDGES OF ROOF.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
MESSAGE CENTER AND BUNKER

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 443A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 443A													
001	THERMAL PIPE INSULATION (3" WHITE ON 1" PIPE)	TSIACM	ROOMS 1, 2, 3, 6, 9, 10, AND 11	500 LF	0400-443A-001A 0400-443A-001B 0400-443A-001C 0400-443A-001D	04/01/00 04/01/00 04/01/00 04/01/00	35% CH 35% CH 35% CH 35% CH	YES	DAM./DIST.	MED.	1	REPAIR	MECHANICAL EQUIPMENT IN THIS BUILDING IS INOPERABLE. ROOMS 3 AND 10 HAVE DAMAGE TO ENDS OF PIPE INSULATION. THERE IS APPROXIMATELY 10 SQ FT OF VISIBLE DAMAGED PIPING.
005	VINYL FLOOR TILE (1' X 1' REDISH-BROWN)	MACM	ROOMS 4, 5, 6, AND 10	770 SF	0400-443A-005A 0400-443A-005B 0400-443A-005C	04/01/00 04/01/00 04/01/00	20% CH 20% CH 20% CH	NO	UNDAM.	LOW	5	O&M	THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 006 IN 443A.
006	FLOOR ADHESIVE (BLACK)	MACM	ROOMS 4, 5, 6, AND 10	770 SF	0400-443A-006A 0400-443A-006B 0400-443A-006C	04/01/00 04/01/00 04/01/00	10% CH 10% CH 10% CH	NO	UNDAM.	LOW	5	O&M	THIS IS THE ADHESIVE FOR MATERIAL 005 IN 443A.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 443A													
002	ACOUSTICAL WALL PANELS (1' X 1' ACOUSTICAL)	MACM	ROOMS 4, 5, 6, AND 10	770 SF	0400-443A-002A 0400-443A-002B 0400-443A-002C	04/01/00 04/01/00 04/01/00	ND ND ND						WHITE PAINT IS COVERING THE SURFACE OF THE BROWN PARTICAL BOARD. THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 003 IN 443A.
003	WALL ADHESIVE (BLACK)	MACM	ROOMS 4, 5, 6, AND 10	770 SF	0400-443A-003A 0400-443A-003B 0400-443A-003C	04/01/00 04/01/00 04/01/00	ND ND ND						REMOVE EXPOSED ADHESIVE AND REPAIR. THIS IS THE ADHESIVE FOR MATERIAL 002 IN 443A.
004	VINYL FLOOR SHEETING (BEIGE)	MACM	ROOMS 4, 5, 6, AND 10	770 SF	0400-443A-004A 0400-443A-004B 0400-443A-004C	04/01/00 04/01/00 04/01/00	ND ND ND						DAMAGE IS AT ENDS NEAR DOORWAY TO ROOM 2.
007	WALL AND CEILING BOARD	MACM	ROOM 7	800 SF	0400-443A-007A 0400-443A-007B 0400-443A-007C	04/01/00 04/01/00 04/01/00	ND ND ND						USED TO ENCLOSE ACM ON A/C UNIT AND ASSOCIATED PIPING 2 YEARS AGO - PER MR. CONZALEY.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
MESSAGE CENTER

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 443A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
008	JOINT COMPOUND (MUD)	MACM	ROOM 7	100 LF	0400-443A-008A 0400-443A-008B 0400-443A-008C	04/01/00 04/01/00 04/01/00	ND ND ND						
009	GASKET	MACM	ROOM 8	100 LF	0400-443A-009A 0400-443A-009B 0400-443A-009C	04/01/00 04/01/00 04/01/00	ND ND ND						THIS MATERIAL IS LOCATED ON BLOWER UNIT. THIS UNIT IS NOT IN OPERATION.
010	CEMENT WALL PANELS (STRUCTURE CONCRETE)	MACM	ENTIRE STRUCTURE	95000 SF	0400-443A-010A	04/01/00	ND						APPROXIMATELY 4,750 SQ FT NEEDS TO BE REPAIRED. VARIOUS AREAS OUTSIDE OF STRUCTURE ARE STARTING TO SHOW DAMAGE.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
BUNKER

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 443B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE MATERIAL DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION NUMBER	DATE	RESULT	FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 443B													
001	VINYL FLOOR TILE (9" X 9" BEIGE)	MACM	ROOM 1	930 SF	0300-443B-001A 0300-443B-001B 0300-443B-001C	04/01/00 04/01/00 04/01/00	25% CH 25% CH 25% CH	NO	DAM./DIST.	HIGH	6	REPAIR O&M	THE VINYL FLOOR TILE IS VERY BRITTLE, HOWEVER IN GOOD CONDITION. THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 002 IN 443B. THERE IS 3 SQ FT OF DAMAGED TILE.
002	FLOOR ADHESIVE (BLACK)	MACM	ROOM 1	930 SF	0300-443B-002A 0300-443B-002B 0300-443B-002C	04/01/00 04/01/00 04/01/00	15% CH 15% CH 15% CH	NO	DAM./DIST.	LOW	6	REPAIR O&M	THIS IS THE ADHESIVE FOR MATERIAL 001 IN 443B. THERE IS 3 SQ FT OF DAMAGED TILE.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 443B													
003	TANK INSULATION (BLACK MASTIC COATING)	MACM	ROOM 2	2770 SF	0300-443B-003A 0300-443B-003B 0300-443B-003C	04/01/00 04/01/00 04/01/00	ND ND ND						THIS ROOM CONTAINS A LARGE TANK VESSEL. THE BOILER TANK IS RUSTY AND APPROXIMATELY HALF OF THE MASTIC IS MISSING.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 444A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 444A													
003	VINYL FLOOR TILE (1' X 1' WHITE AND BROWN)	MACM	UTILITY ROOM	90 SF	0400-444A-003A 0400-444A-003B 0400-444A-003C	04/01/00 04/01/00 04/01/00	1-5% CH 1-5% CH 1-5% CH	NO	DAM./LOCAL	MED.	6	REMOVE	THIS TILE IS THE SECOND LAYER OF THREE. 10 SQ FT IS EXPOSED BECAUSE OF TOP LAYER BEING DAMAGED.
004	VINYL FLOOR TILE (9" X 9" GREEN)	MACM	UTILITY ROOM	90 SF	0400-444A-004A 0400-444A-004B 0400-444A-004C	04/01/00 04/01/00 04/01/00	15% CH 15% CH 15% CH	NO	DAM./LOCAL	LOW	6	REMOVE	THIS IS THE BOTTOM OF THREE LAYERS. THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 005 IN 444A. THERE IS 1 SQ FT OF DAMAGED TILE.
005	FLOOR ADHESIVE (BLACK)	MACM	UTILITY ROOM	90 SF	0400-444A-005A 0400-444A-005B 0400-444A-005C	04/01/00 04/01/00 04/01/00	10% CH 10% CH 10% CH	NO	DAM./LOCAL	LOW	6	REMOVE	ONE TILE IS MISSING AND ADHESIVE IS EXPOSED.
007	SINK COATING (BLACK SPRAY)	MACM	KITCHEN	4 SF	0400-444A-007A 0400-444A-007B 0400-444A-007C	04/02/00 04/02/00 04/02/00	10% CH 10% CH 10% CH	NO	UNDAM.	MED.	5	O&M	THIS MATERIAL IS LOCATED ON THE BOTTOM OF THE KITCHEN SINK.
008	CAULK (WINDOW PUTTY)	MACM	LIVING ROOM, HALL, BATHROOM, AND BEDROOM	80 SF	0400-444A-008A 0400-444A-008B 0400-444A-008C	04/02/00 04/02/00 04/02/00	25% CH 5% CH 5% CH	NO	SID.DAM./DIST.	HIGH		REMOVE	NONE OF THE WINDOWS AT THESE LOCATIONS ARE IN PLACE. ALL OF THE MATERIAL IS EXPOSED.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 444A													
001	VINYL FLOOR TILE (1' X 1' GRAY ON BEIGE)	MACM	UTILITY ROOM	90 SF	0400-444A-001A 0400-444A-001B 0400-444A-001C	04/01/00 04/01/00 04/01/00	ND ND ND						THIS SAMPLE IS FROM THE TOP LAYER OF THREE LAYERS OF VFT. THERE IS CONSIDERABLE DAMAGE AND TILE IS BRITTLE. THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 002 IN 444A.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 444A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
002	FLOOR ADHESIVE (WHITE)	MACM	UTILITY ROOM	90 SF	0400-444A-002A 0400-444A-002B 0400-444A-002C	04/01/00 04/01/00 04/01/00	ND ND ND						25% OF THE FLOOR TILE IS MISSING, EXPOSING THE ADHESIVE. SOME OF THE ADHESIVE HAS WEATHERED AWAY. THE REMAINING ADHESIVE IS FRIABLE. THIS IS THE ADHESIVE FOR MATERIAL 001 IN 444A.
006	COVE BASE ADHESIVE (TACKY TAN)	MACM	UTILITY ROOM	90 LF	0400-444A-006A 0400-444A-006B 0400-444A-006C	04/02/00 04/02/00 04/02/00	ND ND ND						
009	PAINT	MACM	INSIDE OF HOUSE	20000 SF	0400-444A-009A	04/02/00	ND						
010	CEMENT WALL PANELS (OUTSIDE CONCRETE WALL)	MACM	ENTIRE OUTSIDE STRUCTURE	50000 SF	0400-444A-010A	04/02/00	ND						THIN LAYER ON TOP OF CONCRETE BUILDING. SAMPLE WAS COLLECTED FROM SOUTHEAST WALL.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 04/02/00
BUILDING NUMBER: 444B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 444B													
002	ASPHALTIC ROOFING MATERIALS (COMPOSITE)	MACM	ROOF	735 SF	0400-444B-002A 0400-444B-002B 0400-444B-002C	04/02/00 04/02/00 04/02/00	1-5% CH 1-5% CH 1-5% CH	NO	DAM./DIST.	LOW	6	REPAIR O&M	THE ROOF TAR IS CRACKED IN NUMEROUS LOCATIONS AND SHOULD BE ENCAPSULATED.
003	ASPHALTIC ROOFING MATERIALS (TAR COATING)	MACM	ROOF	2 SF	0400-444B-003A 0400-444B-003B	04/02/00 04/02/00	20% CH 20% CH	NO	UNDAM.	LOW	6	O&M	STRIP OF TAR ON WEST LEDGE OUTSIDE SECOND FLOOR PATIO.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 444B													
001	CAULK	MACM	STAIRWELL	128 SF	0400-444B-001A 0400-444B-001B 0400-444B-001C	04/02/00 04/02/00 04/02/00	ND ND ND						GLASS BLOCK WINDOWS BETWEEN FIRST AND SECOND FLOORS.
004	PAINT	MACM	ENTIRE BUILDING	50000 SF	0400-444B-004A 0400-444B-004B 0400-444B-004C	04/02/00 04/02/00 04/02/00	ND ND ND						THIS CONSISTS OF TWO LAYERS OF WHITE AND BEIGE.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 445A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 445A													
001	WALL PLASTER (WHITE)	SACM	ALL ROOMS AND CEILINGS	20000 SF	0400-445A-001A 0400-445A-001B 0400-445A-001C	04/01/00 04/01/00 04/01/00	ND ND ND						THERE IS WHITE PAINT OVER PLASTER.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 03/28/00
BUILDING NUMBER: 445B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE / MATERIAL DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 445B													
001	SINK COATING (WHITE SPRAY-ON COATING)	MACM	KITCHEN	8 SF	0300-445B-001A 0300-445B-001B 0300-445B-001C	03/28/00 03/28/00 03/28/00	ND ND ND						TWO SINKS 2' X 2' SIDE BY SIDE, COATING ON BOTTOM OF SINK, ARE IN GOOD CONDITION.
002	INSULATION STRIP (BLACK FOAM ON DOOR)	MACM	KITCHEN	15 LF	0300-445B-002A	03/28/00	ND						FOAM STRIPPING IS LOCATED ON KITCHEN DOOR LEADING TO THE FRONT PORCH.
003	CEMENT WALL (BUILDING)	SACM	FRONT DOOR INSIDE ENTRANCE BOTTOM, OUTSIDE DOOR ENTRANCE, AND TOP OF STAIRWELL	50000 SF	0300-445B-003A	03/28/00	ND						THIS MATERIAL IS LOCATED ON THE FRONT DOOR INSIDE ENTRANCE BOTTOM, OUTSIDE DOOR ENTRANCE, AND TOP OF STAIRWELL.
004	WALL PLASTER (WHITE)	SACM	ALL ROOMS, INCLUDING THE OUTSIDE PORCH STORAGE ROOM	20000 SF	0300-445B-004A 0300-445B-004B 0300-445B-004C 0300-445B-004D	03/28/00 03/28/00 03/28/00 03/28/00	ND ND ND ND						THIS PLASTER WAS APPLIED TO CEMENT WALLS DURING REMODELING IN 1997 PLASTER IS IN GOOD CONDITION.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 03/31/00
BUILDING NUMBER: 446A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 446A													
001	WALL PLASTER (WHITE)	SACM	ALL ROOMS	20000 SF	0300-446A-001A 0300-446A-001B 0300-446A-001C	03/31/00 03/31/00 03/31/00	ND ND ND						
002	SINK COATING (WHITE SPRAY COATING)	SACM	KITCHEN	8 SF	0300-446A-002A 0300-446A-002B 0300-446A-002C	03/31/00 03/31/00 03/31/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 03/31/00
BUILDING NUMBER: 446B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 446B													
001	SINK COATING (SINK COATING)	SACM	KITCHEN	8 SF	0300-446B-001A 0300-446B-001B 0300-446B-001C	03/31/00 03/31/00 03/31/00	ND ND ND						8 SF EQUALS 2 EACH.
002	WALL PLASTER (WHITE)	SACM	KITCHEN, LIVING ROOM, AND DEN	20000 SF	0300-446B-002A 0300-446B-002B 0300-446B-002C	03/31/00 03/31/00 03/31/00	ND ND ND						THE TEXTURED PLASTER IS COATED WITH PAINT.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 03/29/00
BUILDING NUMBER: 447A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 447A													
001	WALL PLASTER (WHITE)	SACM	ALL ROOMS INSIDE	1500 SF	0300-447A-001A 0300-447A-001B 0300-447A-001C	03/29/00 03/29/00 03/29/00	ND ND ND						THE PLASTER SURFACE HAS A WHITE PAINT COATING IN VERY GOOD CONDITION.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE:
BUILDING NUMBER: 447B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 447B													
004	ASPHALTIC ROOFING MATERIALS (BLACK TAR, FIBROUS)	MACM	ROOF	1760 SF	0400-447B-004A 0400-447B-004B 0400-447B-004C	04/02/00 04/02/00 04/02/00	30% CH 35% CH 35% CH	NO	UNDAM.	LOW	5	O&M	
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 447B													
001	VINYL FLOOR TILE (1' X 1' GRAY ON WHITE)	MACM	STAIRWELL TO SECOND FLOOR	61 SF	0300-447B-001A 0300-447B-001B 0300-447B-001C	03/28/00 03/28/00 03/28/00	ND ND ND						THIS FLOOR TILE WAS NOTED BY THE CURRENT RESIDENT TO HAVE BEEN INSTALLED IN 1997. THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 002 IN 447B.
002	FLOOR ADHESIVE (GRAYISH WHITE)	MACM	STAIRWELL TO SECOND FLOOR	60 SF	0300-447B-002A 0300-447B-002B 0300-447B-002C	03/28/00 03/28/00 03/28/00	ND ND ND						THIS IS THE ADHESIVE FOR MATERIAL 001 IN 447B.
003	PAINT (MULTILAYERED PAINT)	SACM	CEILING INSIDE STAIRWELL, OUTSIDE SOUTH WALL, AND DOOR TO 447A	50000 SF	0300-447B-003A 0300-447B-003B 0300-447B-003C	03/28/00 03/28/00 03/28/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 04/01/00
BUILDING NUMBER: 448A

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 448A													
003	THERMAL PIPE AND FITTING INSULATION (3" PIPE INSULATION)	TSIACM	KITCHEN DEN AND BEDROOM CLOSETS	175 LF	0300-448A-003A 0300-448A-003B 0300-448A-003C	04/01/00 04/01/00 04/01/00	25% CH 25% CH 25% CH	YES	DAM./LOCAL	LOW	1	REPAIR	DID NOT OPEN PIPE CHASE. THIS MATERIAL IS WRAPPED AND PAINTED. THERE IS 3 SQ FT OF DAMAGED PIPE.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 448A													
001	VINYL FLOOR TILE (1' X 1' BROWN/GREEN ON BEIGE)	MACM	KITCHEN AND KITCHEN DEN	276 SF	0400-448A-001A 0400-448A-001B 0400-448A-001C	04/01/00 04/01/00 04/01/00	ND ND ND						THE FRONT DOOR IS SCRAPING ON A TILE AND CAUSING DAMAGE.
002	FLOOR ADHESIVE (GRAY)	MACM	KITCHEN AND KITCHEN DEN	276 SF	0300-448A-002A 0300-448A-002B 0300-448A-002C	04/01/00 04/01/00 04/01/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING

INSPECTION DATE: 03/28/00
BUILDING NUMBER: 448B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 448B													
001	VINYL FLOOR TILE (1' X 1' BEIGE ON WHITE)	MACM	STAIRWELL	23 SF	0300-448B-001A	04/09/00	ND						THE ADHESIVE FOR THIS MATERIAL IS MATERIAL 002 IN 448B.
002	FLOOR ADHESIVE (BEIGE)	MACM	STAIRWELL	23 SF	0300-448B-002A	04/09/00	ND						THIS IS THE ADHESIVE FOR MATERIAL 001 IN 448B.
003	MECHANICAL EQUIPMENT INSULATION	TSIACM	UTILITY ROOM, LIVING ROOM, DEN, AND BEDROOMS 1 AND 2	200 LF	0300-448B-003A	04/09/00	ND						
004	VINYL FLOOR TILE	MACM	KITCHEN	88 SF	0300-448B-004A 0300-448B-004B 0300-448B-004C	03/29/00 03/29/00 03/29/00	ND ND ND						THERE IS APPROXIMATELY 5 SQ FT OF DAMAGED AREA.
005	FLOOR ADHESIVE (YELLOW)	MACM	KITCHEN	88 SF	0300-448B-005A 0300-448B-005B 0300-448B-005C	03/29/00 03/29/00 03/29/00	ND ND ND						
006	VINYL FLOOR TILE (1' X 1')	MACM	KITCHEN	88 SF	0300-448B-006A 0300-448B-006B 0300-448B-006C	03/29/00 03/29/00 03/29/00	ND ND ND						THIS IS THE SECOND LAYER OF VFT. SMALL SECTION WITH DAMAGE NEAR THE FRONT PORCH.
007	FLOOR ADHESIVE (TAN)	MACM	KITCHEN	88 SF	0300-448B-007A 0300-448B-007B	03/29/00 03/29/00	ND ND						
008	VINYL FLOOR TILE (1' X 1')	MACM	UTILITY ROOM	49 SF	0300-448B-008A 0300-448B-008B 0300-448B-008C	03/29/00 03/29/00 03/29/00	ND ND ND						
009	FLOOR ADHESIVE (TAN)	MACM	UTILITY ROOM	44 SF	0300-448B-009A 0300-448B-009B 0300-448B-009C	03/29/00 03/29/00 03/29/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
RESIDENTIAL HOUSING UNOCCUPIED

INSPECTION DATE: 03/29/00
BUILDING NUMBER: 448B

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
010	CEILING TILES (2' X 45' WHITE COATED)	MACM	LIVING ROOM AND BEDROOMS 1 AND 2	500 SF	0300-448B-010A 0300-448B-010B 0300-448B-010C	03/29/00 03/29/00 03/29/00	ND ND ND						AIR CONDITION VENT IS NEXT TO CEILING TILE. NOT IN OPERATION AT TIME OF INSPECTION.
011	COVE BASE ADHESIVE	MACM	KITCHEN, UTILITY ROOM, AND BATHROOM	200 LF	0300-448B-011A 0300-448B-011B 0300-448B-011C	03/29/00 03/29/00 03/29/00	ND ND ND						BASEBOARD HAS FALLEN AND IS LOOSE IN 65% OF THE LOCATIONS.
012	MECHANICAL EQUIPMENT INSULATION (SILVER FACE OVER 2" THICK FIBERGLASS AIR DUCT WORK)	MACM	UTILITY ROOM, LIVING ROOM, DEN, AND BEDROOMS	300 LF	0300-448B-012A 0300-448B-012B 0300-448B-012C	03/30/00 03/30/00 03/30/00	ND ND ND						
013	FLEX CONNECTOR (RUBBER DAMPER A/C DUCT)	MACM	UTILITY ROOM AND LIVING ROOM	4 LF	0300-448B-013A 0300-448B-013B 0300-448B-013C	03/30/00 03/30/00 03/30/00	ND ND ND						
014	VINYL FLOOR TILE (TAN ON WHITE)	MACM	BEDROOM CLOSETS AND BATHROOM	50 SF	0300-448B-014A 0300-448B-014B 0300-448B-014C	03/30/00 03/30/00 03/30/00	ND ND ND						
015	FLOOR ADHESIVE (GRAY/TAN)	MACM	CLOSETS IN BEDROOMS AND BATHROOM	50 SF	0300-448B-015A 0300-448B-015B 0300-448B-015C	03/30/00 03/30/00 03/30/00	ND ND ND						
016	CARPET (BROWN CARPET)	MACM	LIVING ROOM, DEN, CORRIDOR, AND BEDROOM 1	673 SF	0300-448B-016A 0300-448B-016B 0300-448B-016C	03/30/00 03/30/00 03/30/00	ND ND ND						

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
ADMIN. OFFICE/COMMUNITY GARAGE

INSPECTION DATE: 03/30/00
BUILDING NUMBER: 449

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 449													
001	VINYL FLOOR TILE (1' X 1' BLUISH)	MACM	ROOM 1	200 SF	0300-449-001A 0300-449-001B 0300-449-001C	03/30/00 03/30/00 03/30/00	ND ND ND						WATER DAMAGE IS CAUSING TILE TO BECOME LOOSE.
002	FLOOR ADHESIVE (TAN)	MACM	ROOM 1	384 SF	0300-449-002A 0300-449-002B 0300-449-002C 0300-449-002D	03/30/00 03/30/00 03/30/00 03/30/00	ND ND ND						
003	VINYL FLOOR TILE (1' X 1' TAN)	MACM	ROOM 1	200 SF	0300-449-003A 0300-449-003B	03/30/00 03/30/00	ND ND						WATER DAMAGE CIS AUSING TILE TO BECOME LOOSE.
004	CEMENT WALL PANELS (CONCRETE)	MACM	ENTIRE STRUCTURE	1200 SF	0300-449-004A	03/30/00	ND						PAINT IS FLAKING IN VARIOUS AREAS.
005	PAINT (WHITE AND GRAY)	MACM	ENTIRE STRUCTURE	1200 SF	0300-449-005A	03/30/00	ND						
006	ASPHALTIC ROOFING MATERIALS (BLACK TAR COMPOSITE ROOF)	MACM	ROOF	75 SF	0400-449-006A 0400-449-006B 0400-449-006C	04/02/00 04/02/00 04/02/00	ND ND ND						THIS IS A SMALL PATCH OF WHAT APPEARS TO BE ROOFING MATERIAL WHICH IS VERY BRITTLE.

TABLE 4-2
STOP 7 1/2 NAVAL RESERVATION
ABANDONED BUILDING

INSPECTION DATE: 04/03/00
BUILDING NUMBER: 454

ASBESTOS INSPECTION RESULTS

HOMO. MATRL. NO.	MATERIAL TYPE ~~MATERIAL~~ DESCRIPTION	AHERA CAT.	MATERIAL LOCATION(S)	QTY.	SAMPLE INFORMATION			FRI-ABLE	OVERALL CONDITION	ACCESS.	EPA ASS. CAT.	MANAGE-MENT ACTION	COMMENTS
					NUMBER	DATE	RESULT						
THE FOLLOWING ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 454													
001	WIRE INSULATION	MACM	ROOM 1	3 LF	0400-454-001A	04/03/00	95% CH	YES	SIG.DAM./DIST.	HIGH	4	REMOVE	THERE ARE TWO UNITS WITH INSULATION ON WIRE AND IT APPEARS SIGNIFICANTLY DAMAGED. THE BUILDING HAS NO ROOF AND DAMAGED WALLS.
THE FOLLOWING NON-ASBESTOS MATERIALS WERE IDENTIFIED IN BUILDING NUMBER 454													
002	WIRE INSULATION	MACM	ROOM 1	1 LF	0400-454-002A	04/03/00	ND						WIRE INSULATION IS VISIBLE IN ELECTRIC OUTLET BOX. THE SAME INSULATION IS PROBABLY WITHIN THE WALLS.

TABLE 4-3
STOP 7 1/2 NAVAL RESERVATION

ESTIMATED RESOURCES FOR RECOMMENDED MANAGEMENT ACTIONS

BUILDING NUMBER	HOMO. MATERIAL NUMBER	MATERIAL TYPE MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	ABATEMENT ITEM	UNIT COST	ESTIMATED QUANTITY	ITEM COST	ESTIMATED MATERIAL COST
029	004	ASPHALTIC ROOFING MATERIALS (TAR PAPER)	ROOF	100 200	$175.55 $30.53	42.00 HRS 6.00 HRS	$7,373.10 $183.18	$7,556.28
030	012	ASPHALTIC ROOFING MATERIALS (FELT TAR)	ROOF	200	$30.53	18.00 HRS	$549.54	$549.54
440A	004	VINYL FLOOR TILE (1' X 1' TAN)	LAUNDRY ROOM	200	$30.53	3.00 HRS	$91.59	$91.59
440A	005	FLOOR ADHESIVE (BLACK)	LAUNDRY ROOM	200	$30.53	3.00 HRS	$91.59	$91.59
440A	007	SINK COATING (BLACK GRANULAR)	KITCHEN	200	$30.53	0.60 HRS	$18.32	$18.32
443A	001	THERMAL PIPE INSULATION (3" WHITE ON 1" PIPE)	ROOMS 1, 2, 3, 6, 9, 10, AND 11	30	$36.44	500.00 LF	$18,220.00	$18,220.00
443A	005	VINYL FLOOR TILE (1' X 1' REDISH-BROWN)	ROOMS 4, 5, 6, AND 10	200	$30.53	9.00 HRS	$274.77	$274.77
443A	006	FLOOR ADHESIVE (BLACK)	ROOMS 4, 5, 6, AND 10	200	$30.53	9.00 HRS	$274.77	$274.77
443B	001	VINYL FLOOR TILE (9" X 9" BEIGE)	ROOM 1	100 200	$175.55 $30.53	1.00 HRS 9.00 HRS	$175.55 $274.77	$450.32
443B	002	FLOOR ADHESIVE (BLACK)	ROOM 1	100 200	$175.55 $30.53	1.00 HRS 9.00 HRS	$175.55 $274.77	$450.32
444A	003	VINYL FLOOR TILE (1' X 1' WHITE AND BROWN)	UTILITY ROOM	01	$26.90	90.00 SF	$2,421.00	$2,421.00
444A	004	VINYL FLOOR TILE (9" X 9" GREEN)	UTILITY ROOM	01	$26.90	90.00 SF	$2,421.00	$2,421.00
444A	005	FLOOR ADHESIVE (BLACK)	UTILITY ROOM	03	$26.30	90.00 SF	$2,367.00	$2,367.00
444A	007	SINK COATING (BLACK SPRAY)	KITCHEN	200	$30.53	1.50 HRS	$45.80	$45.80

TABLE 4-3
STOP 7 1/2 NAVAL RESERVATION

ESTIMATED RESOURCES FOR RECOMMENDED MANAGEMENT ACTIONS

BUILDING NUMBER	HOMO. MATERIAL NUMBER	MATERIAL TYPE MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	ABATEMENT ITEM	UNIT COST	ESTIMATED QUANTITY	ITEM COST	ESTIMATED MATERIAL COST
444A	008	CAULK (WINDOW PUTTY)	LIVING ROOM, HALL, BATHROOM, AND BEDROOM	17	$32.74	80.00 SF	$2,619.20	$2,619.20
444B	002	ASPHALTIC ROOFING MATERIALS (COMPOSITE)	ROOF	100 200	$175.55 $30.53	24.00 HRS 4.50 HRS	$4,213.20 $137.39	$4,350.59
444B	003	ASPHALTIC ROOFING MATERIALS (TAR COATING)	ROOF	200	$30.53	0.60 HRS	$18.32	$18.32
447B	004	ASPHALTIC ROOFING MATERIALS (BLACK TAR, FIBROUS)	ROOF	200	$30.53	9.00 HRS	$274.77	$274.77
448A	003	THERMAL PIPE AND FITTING INSULATION (3" PIPE INSULATION)	KITCHEN DEN AND BEDROOM CLOSETS	44	$29.19	175.00 LF	$5,108.25	$5,108.25
454	001	WIRE INSULATION	ROOM 1	46	$27.88	3.00 LF	$83.64	$83.64

TOTAL COST FOR ALL MATERIALS $49,187.07

TABLE 4-4
STOP 7 1/2 NAVAL RESERVATION

ESTIMATED RESOURCES FOR REMOVAL ACTIONS

BUILDING NUMBER	HOMO. MATERIAL NUMBER	MATERIAL TYPE MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	ABATEMENT ITEM	UNIT COST	ESTIMATED QUANTITY	ITEM COST	ESTIMATED MATERIAL COST
029	004	ASPHALTIC ROOFING MATERIALS (TAR PAPER)	ROOF	78	$29.29	1105.00 SF	$32,365.45	$32,365.45
030	012	ASPHALTIC ROOFING MATERIALS (FELT TAR)	ROOF	78	$29.29	6450.00 SF	$188,920.50	$188,920.50
440A	004	VINYL FLOOR TILE (1' X 1' TAN VINYL FLOOR TILE)	LAUNDRY ROOM	01	$26.90	121.00 SF	$3,254.90	$3,254.90
440A	005	FLOOR ADHESIVE (BLACK)	LAUNDRY ROOM	03	$26.30	121.00 SF	$3,182.30	$3,182.30
440A	007	SINK COATING (BLACK GRANULAR)	KITCHEN	64	$30.27	8.00 SF	$242.16	$242.16
443A	001	THERMAL PIPE INSULATION (3" WHITE ON 1 " PIPE)	ROOMS 1, 2, 3, 6, 9, 10 AND 11	30	$36.44	500.00 LF	$18,220.00	$18,220.00
443A	005	VINYL FLOOR TILE (1' X 1' REDISH-BROWN)	ROOMS 4, 5, 6, AND 10	01	$26.90	770.00 SF	$20,713.00	$20,713.00
443A	006	FLOOR ADHESIVE (BLACK)	ROOMS 4, 5, 6, AND 10	03	$26.30	770.00 SF	$20,251.00	$20,251.00
443B	001	VINYL FLOOR TILE (9" X 9" BEIGE)	ROOM 1	01	$26.90	930.00 SF	$25,017.00	$25,017.00
443B	002	FLOOR ADHESIVE (BLACK)	ROOM 1	03	$26.30	930.00 SF	$24,459.00	$24,459.00
444A	003	VINYL FLOOR TILE (1' X 1' WHITE AND BROWN)	UTILITY ROOM	01	$26.90	90.00 SF	$2,421.00	$2,421.00
444A	004	VINYL FLOOR TILE (9" X 9" GREEN)	UTILITY ROOM	01	$26.90	90.00 SF	$2,421.00	$2,421.00
444A	005	FLOOR ADHESIVE (BLACK)	UTILITY ROOM	03	$26.30	90.00 SF	$2,367.00	$2,367.00

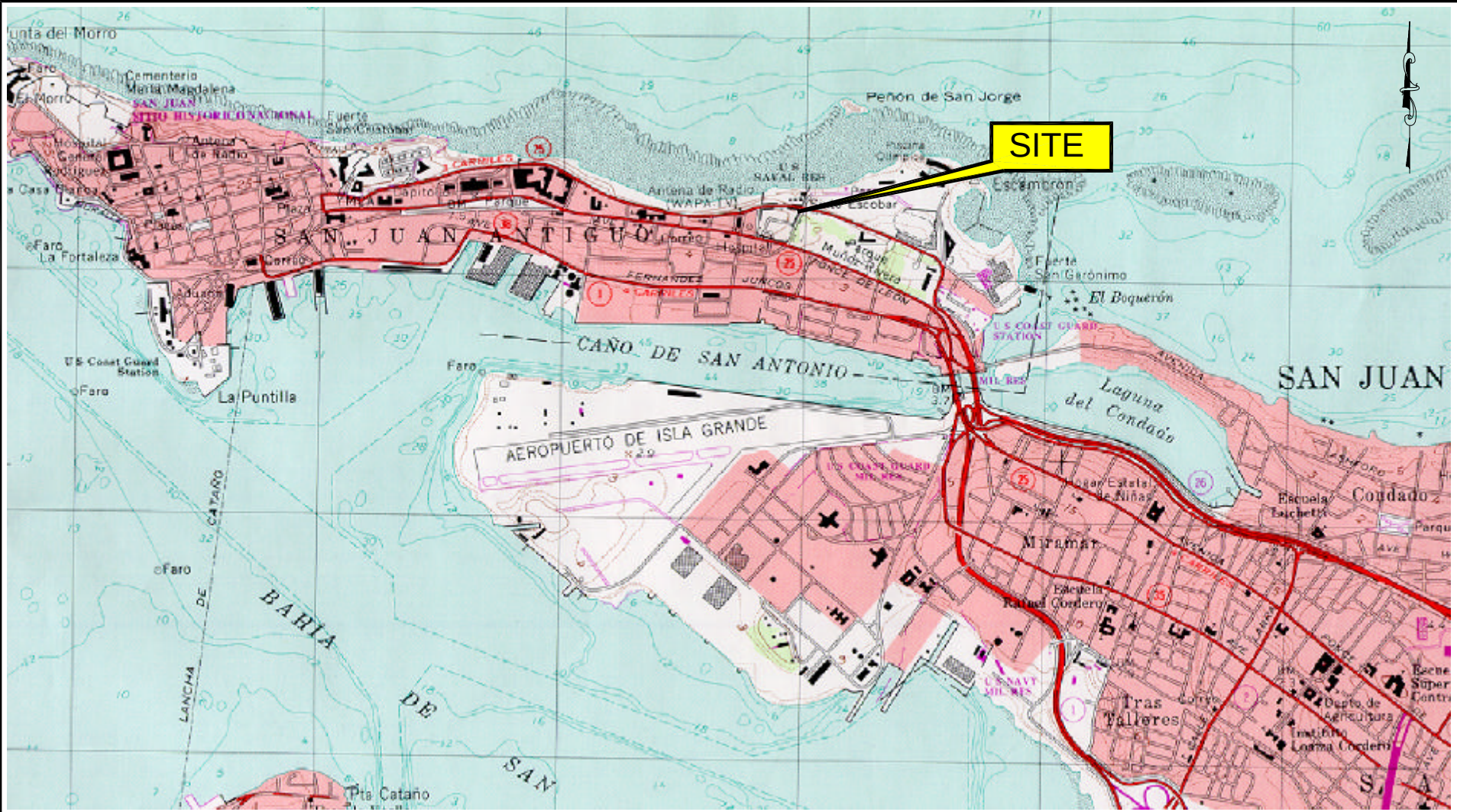
TABLE 4-4
STOP 7 1/2 NAVAL RESERVATION

ESTIMATED RESOURCES FOR REMOVAL ACTIONS

BUILDING NUMBER	HOMO. MATERIAL NUMBER	MATERIAL TYPE MATERIAL DESCRIPTION	MATERIAL LOCATION(S)	ABATEMENT ITEM	UNIT COST	ESTIMATED QUANTITY	ITEM COST	ESTIMATED MATERIAL COST
444A	007	SINK COATING (BLACK SPRAY)	KITCHEN	64	$30.27	4.00 SF	$121.08	$121.08
444A	008	CAULK (WINDOW PUTTY)	LIVING ROOM, HALL, BATHROOM AND BEDROOM	17	$32.74	80.00 SF	$2,619.20	$2,619.20
444B	002	ASPHALTIC ROOFING MATERIALS (COMPOSITE)	ROOF	78	$29.29	735.00 SF	$21,528.15	$21,528.15
444B	003	ASPHALTIC ROOFING MATERIALS (TAR COATING)	ROOF	78	$29.29	2.00 SF	$58.58	$58.58
447B	004	ASPHALTIC ROOFING MATERIALS (BLACK TAR. FIBROUS)	ROOF	78	$29.29	1760.00 SF	$51,550.40	$51,550.40
448A	003	THERMAL PIPE AND FITTING INSULATION (3" PIPE INSULATION)	KITCHEN DEN AND BEDROOM CLOSETS	44	$29.19	175.00 LF	$5,108.25	$5,108.25
454	001	ELECTRICAL WIRE INSULATION	ROOM 1	46	$27.88	3.00 LF	$83.64	$83.64

TOTAL COST FOR ALL MATERIALS $426,403.61

FIGURES



2000 0 1000 2000

1 inch = 2000 ft.

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FIGURE 1–1

SITE LOCATION MAP

STOP 7 1/2 NAVAL RESERVATION

SAN JUAN, PUERTO RICO

SOURCE: U.S.G.S. TOPOGRAPHIC QUADRANGLE.

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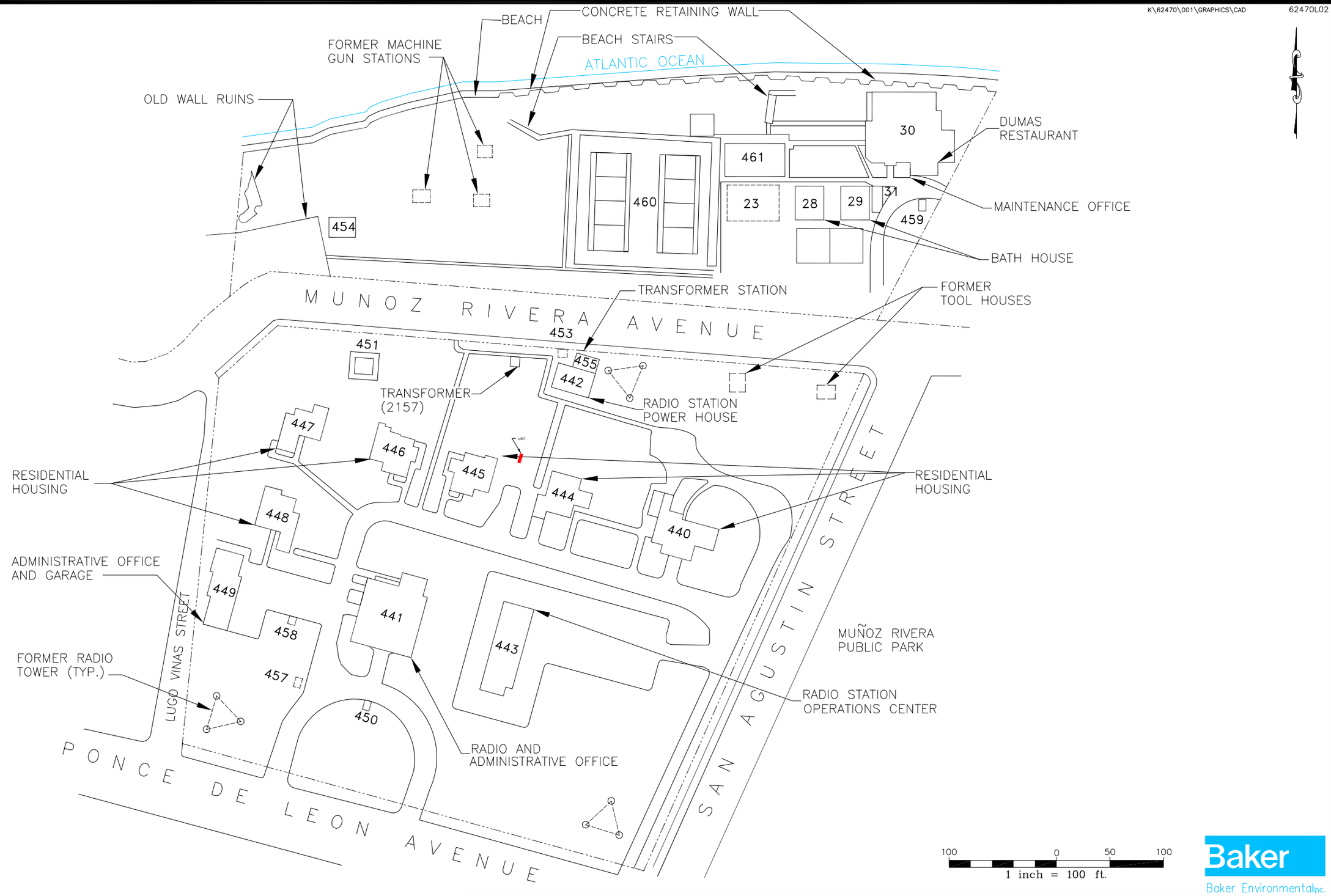

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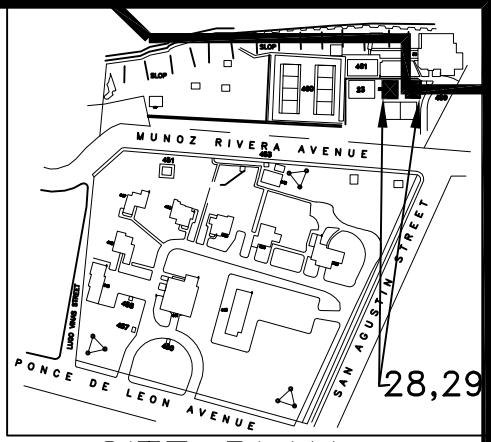
LEGEND

- DENOTES FORMER STRUCTURE
- PROPERTY BOUNDARY
- FORMER UST LOCATION

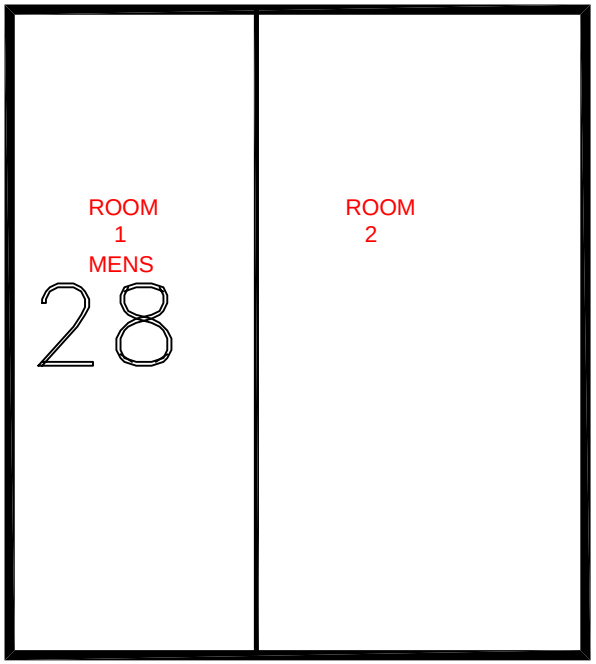
SOURCE: ICF KAISER.

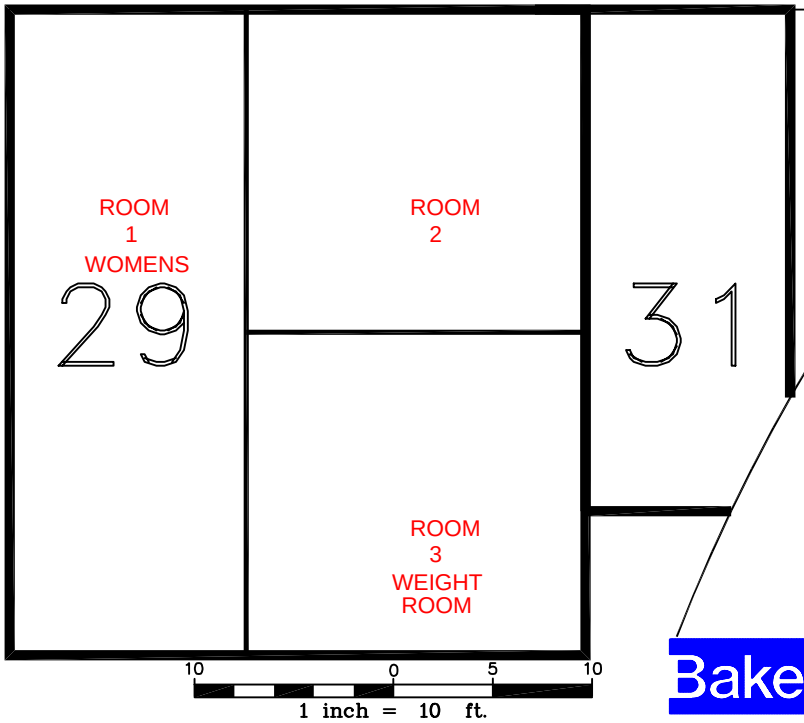
FIGURE 1-2
SITE PLAN
STOP 7-1/2 NAVAL RESERVATION

SAN JUAN, PUERTO RICO



SITE PLAN





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ASBESTOS DETECTED:

1.ASPHALT ROOFING TAR PAPER ON ROOF OF BUILDINGS 28 + 29

SOURCE: ICF KAISER.

FIGURE 3-1
ROBC BUILDINGS 28 & 29
BATH HOUSE
FIRST FLOOR

SAN JUAN, PUERTO RICO

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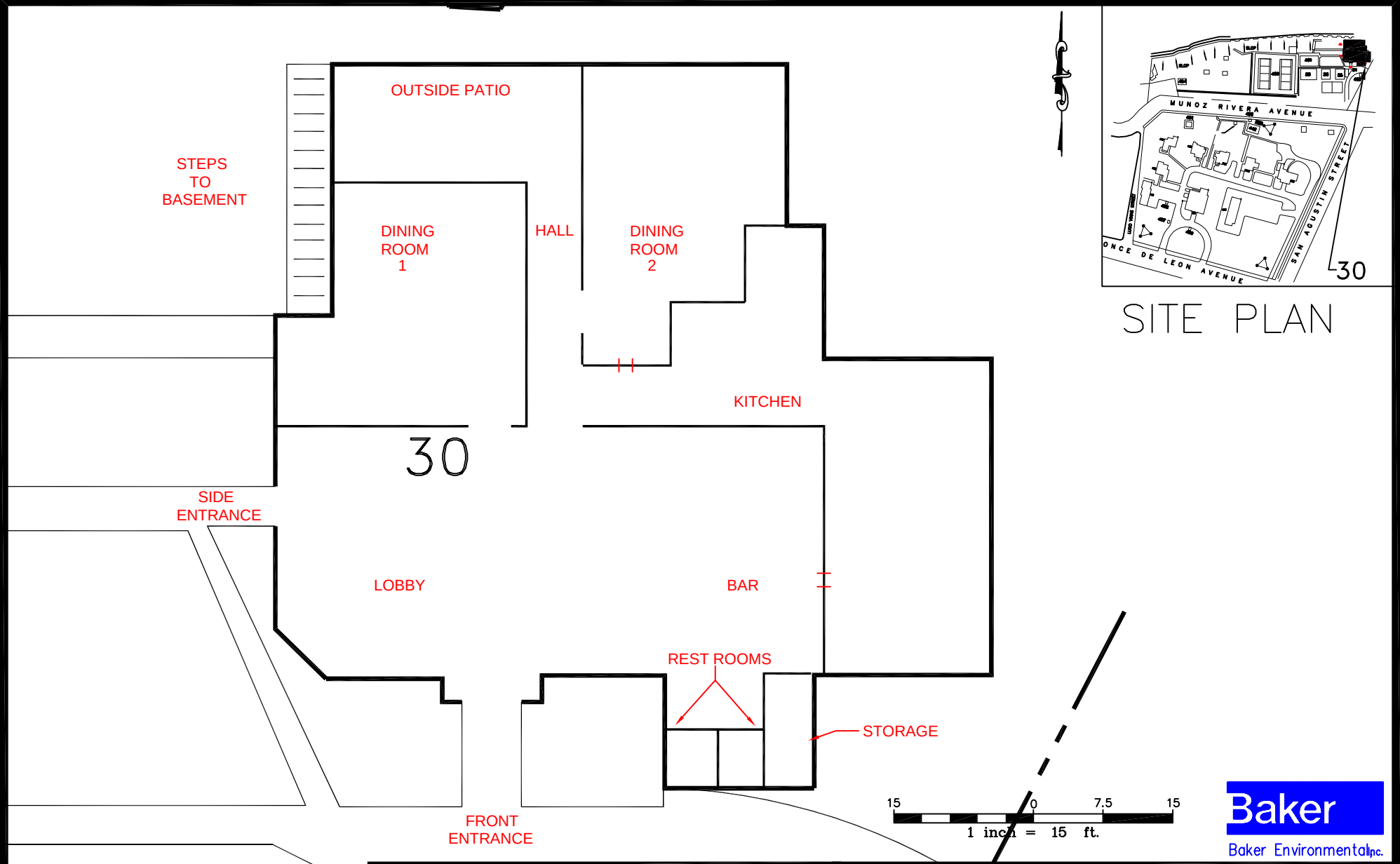

Baker
Baker Environmental Inc.

ASBESTOS DETECTED:

1.ASPHALT ROOFING TAR PAPER

SOURCE: ICF KAISER.

FIGURE 3-2
ROBC BUILDING 30
DUMAS RESTAURANT
FIRST FLOOR

SAN JUAN, PUERTO RICO

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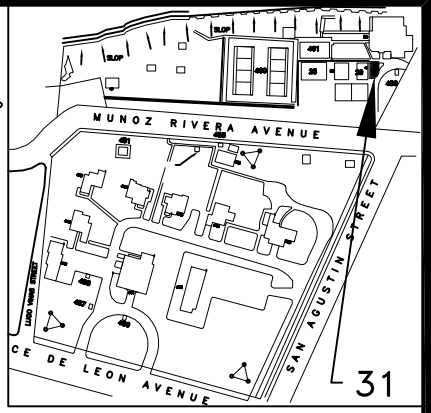
29

31



SITE PLAN

5 0 2.5 5

1 inch = 5 ft.

Baker

Baker Environmental Inc.

NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3-3
ROBC BUILDING 31
MAINTENANCE OFFICE
FIRST FLOOR

SAN JUAN, PUERTO RICO

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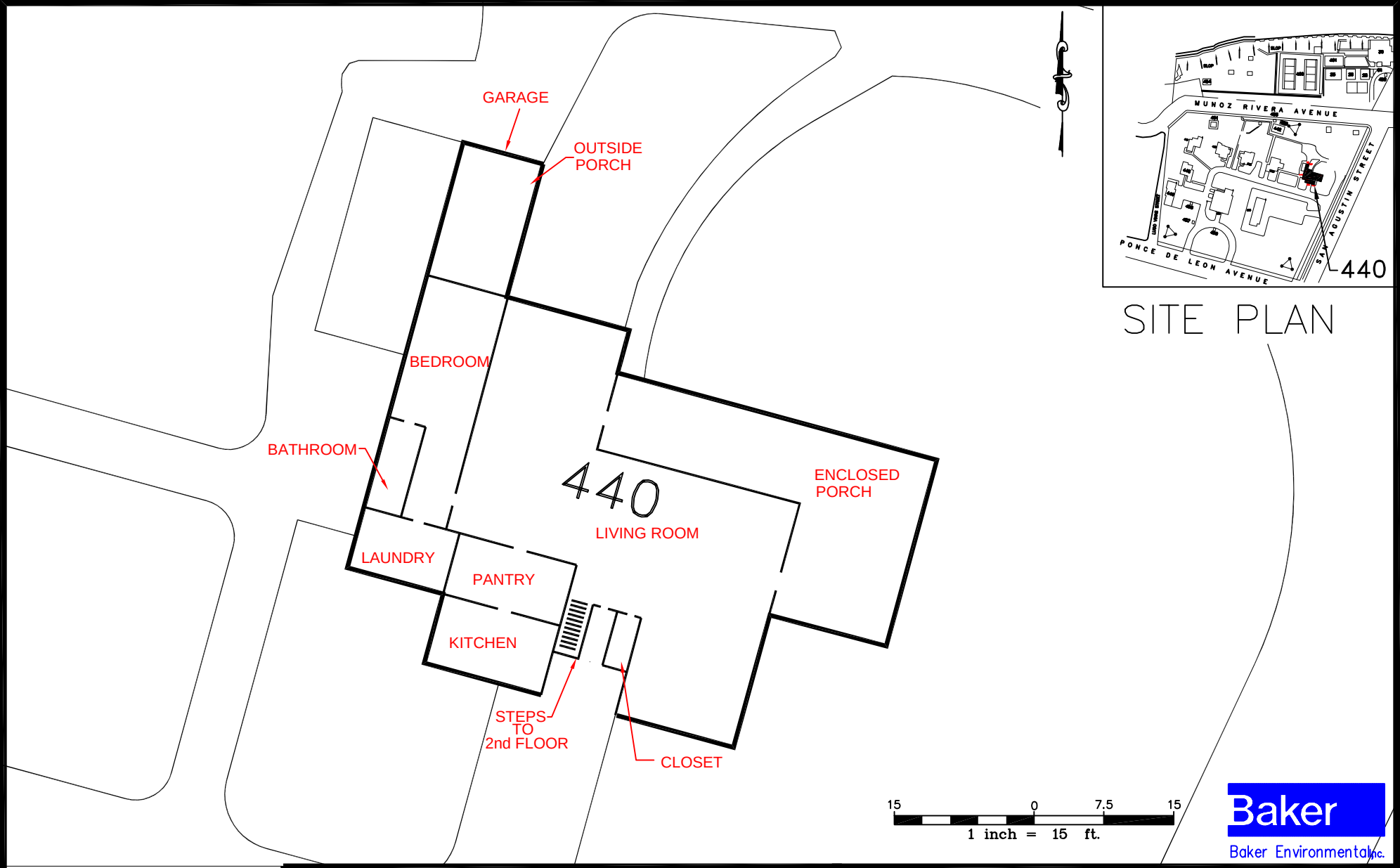


ASBESTOS DETECTED:

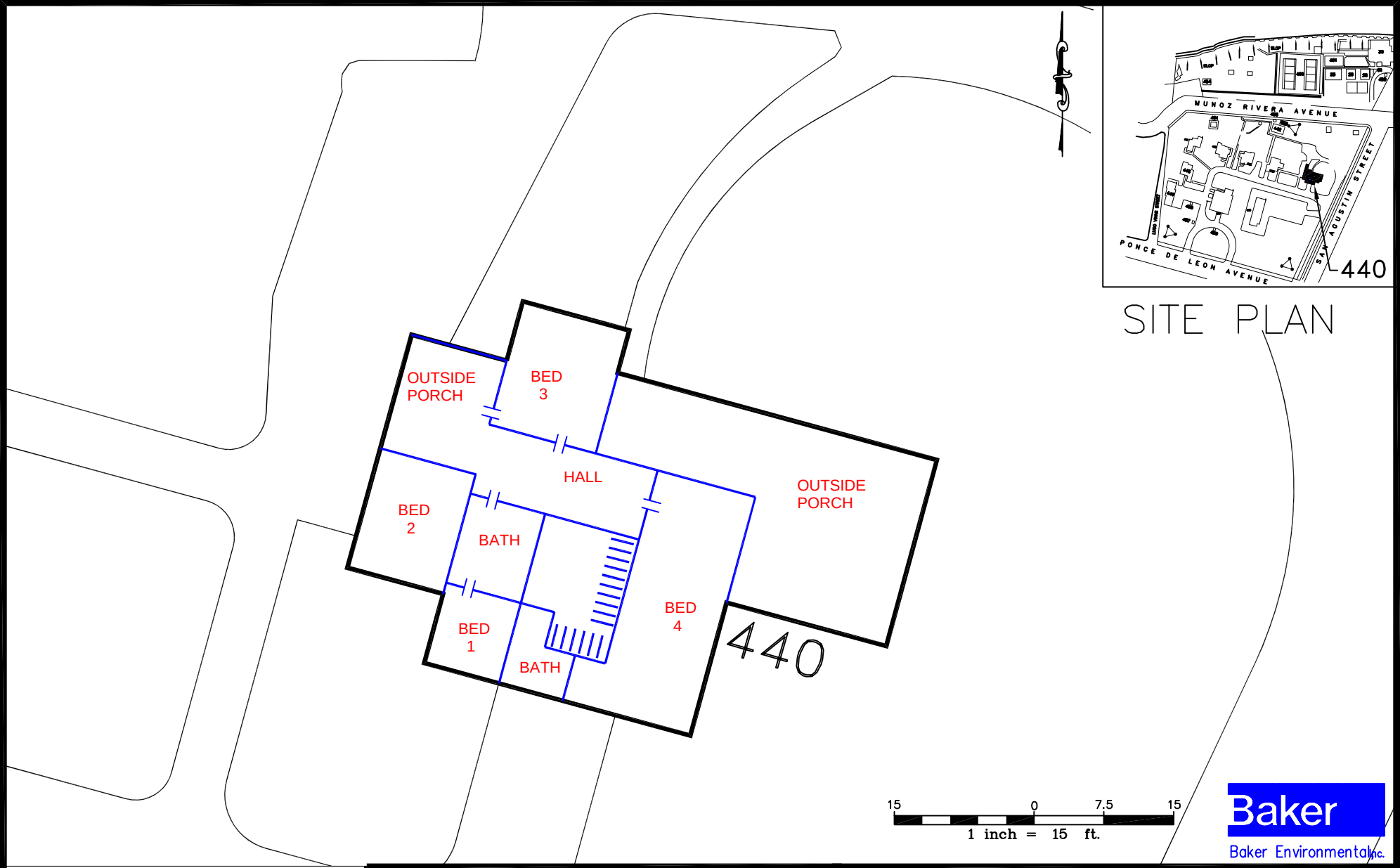
1. VINYL FLOOR TILE LAUNDRY ROOM
2. FLOOR TILE ADHESIVE LAUNDRY ROOM
3. COATING ON BOTTOM OF KITCHEN SINK

SOURCE: ICF KAISER.

FIGURE 3-4
STOP 7-1/2 BUILDING 440A
UNOCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

62470L34 K:\62470\001PHASE\GRAPHICS\CAD



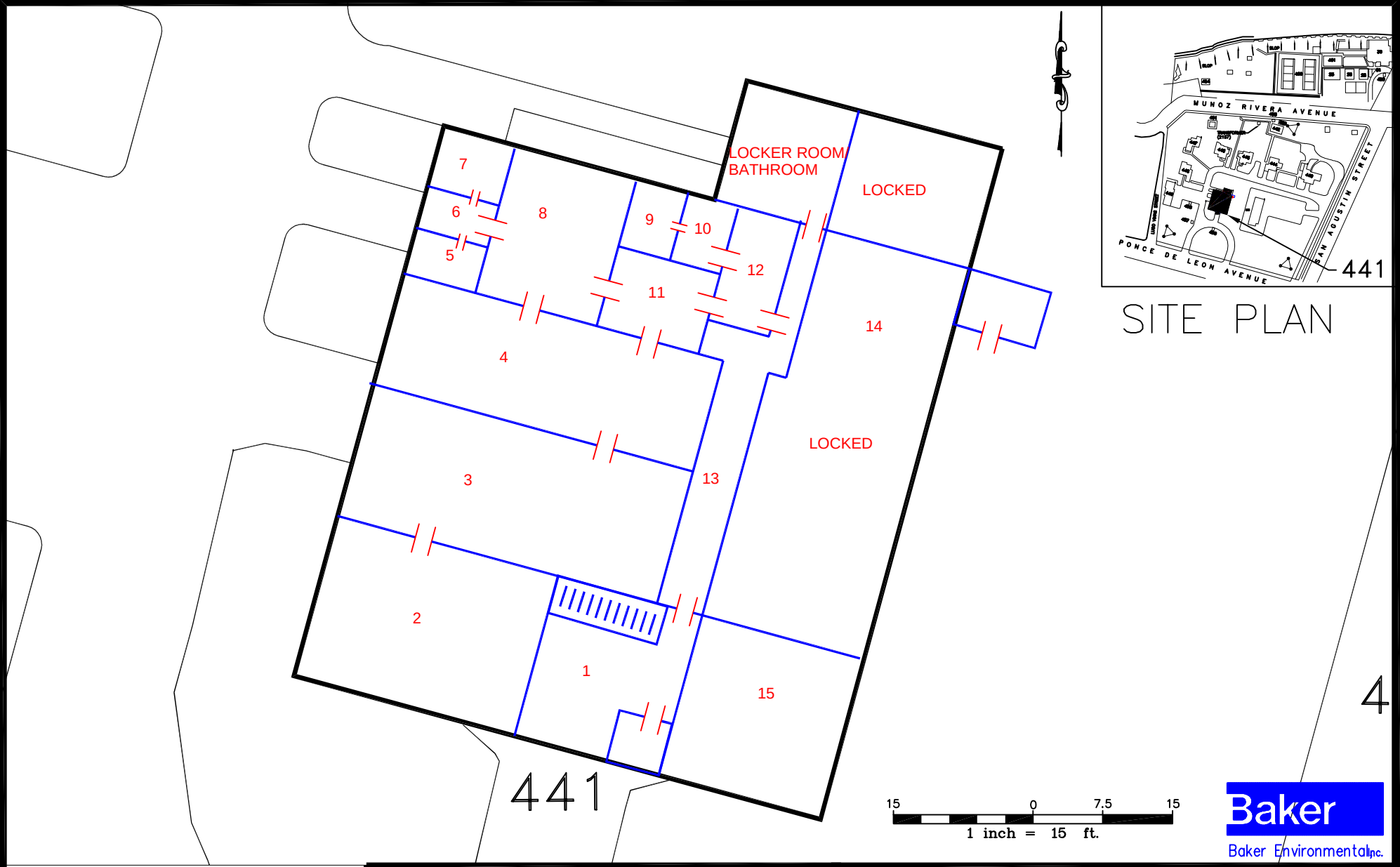
NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3–5
STOP 7–1/2 BUILDING 440B
UNOCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L49 K:\62470\001PHASE\GRAPHICS\CAD



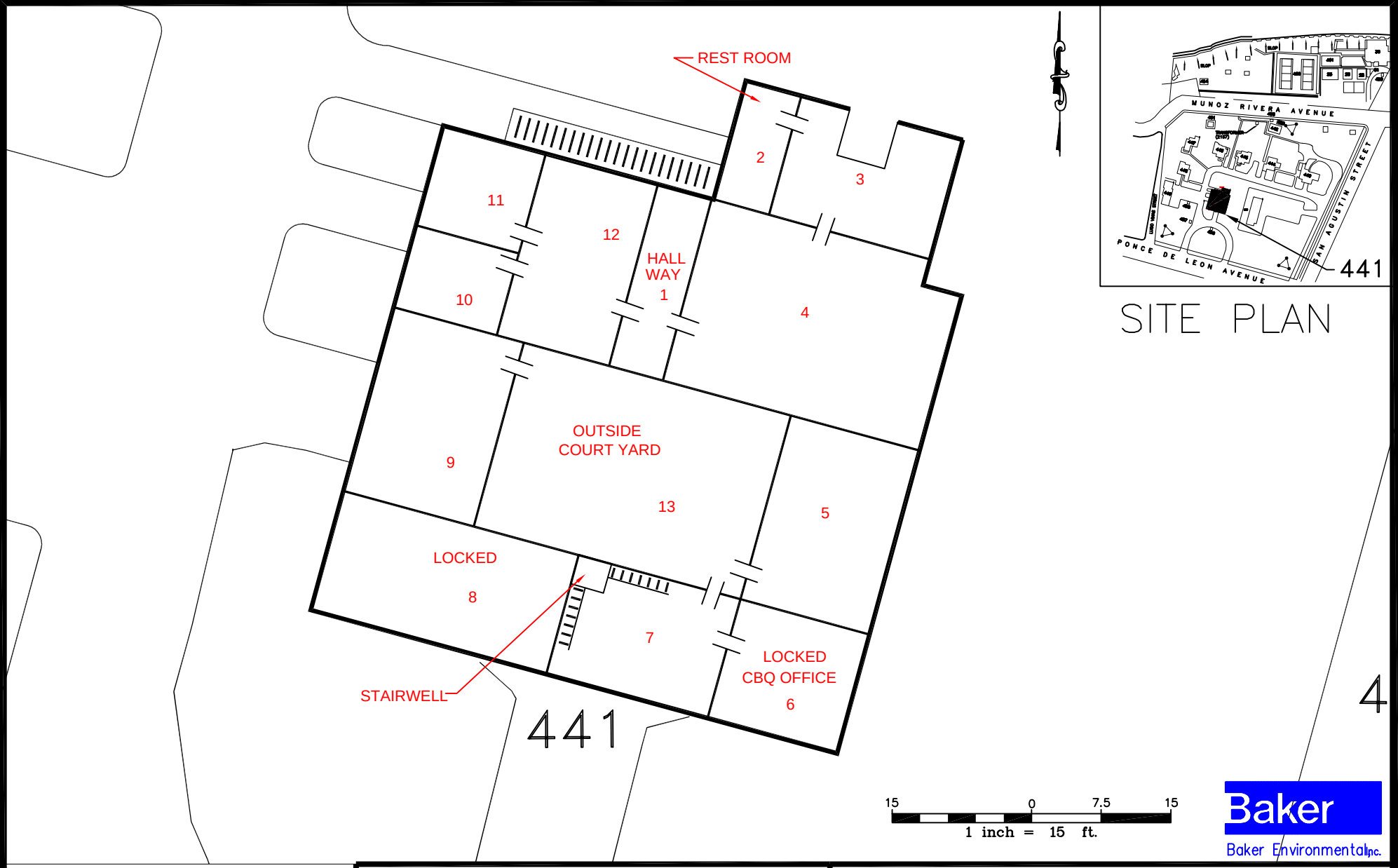
NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3-6
STOP 7-1/2 BUILDING 441
ADMINSTRATIVE OFFICE
FIRST FLOOR

SAN JUAN, PUERTO RICO

62470L53 K:\62470\001PHASE\GRAPHICS\CAD



NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3-7
STOP 7-1/2 BUILDING 441
ADMINSTRATIVE OFFICE
SECOND FLOOR

SAN JUAN, PUERTO RICO

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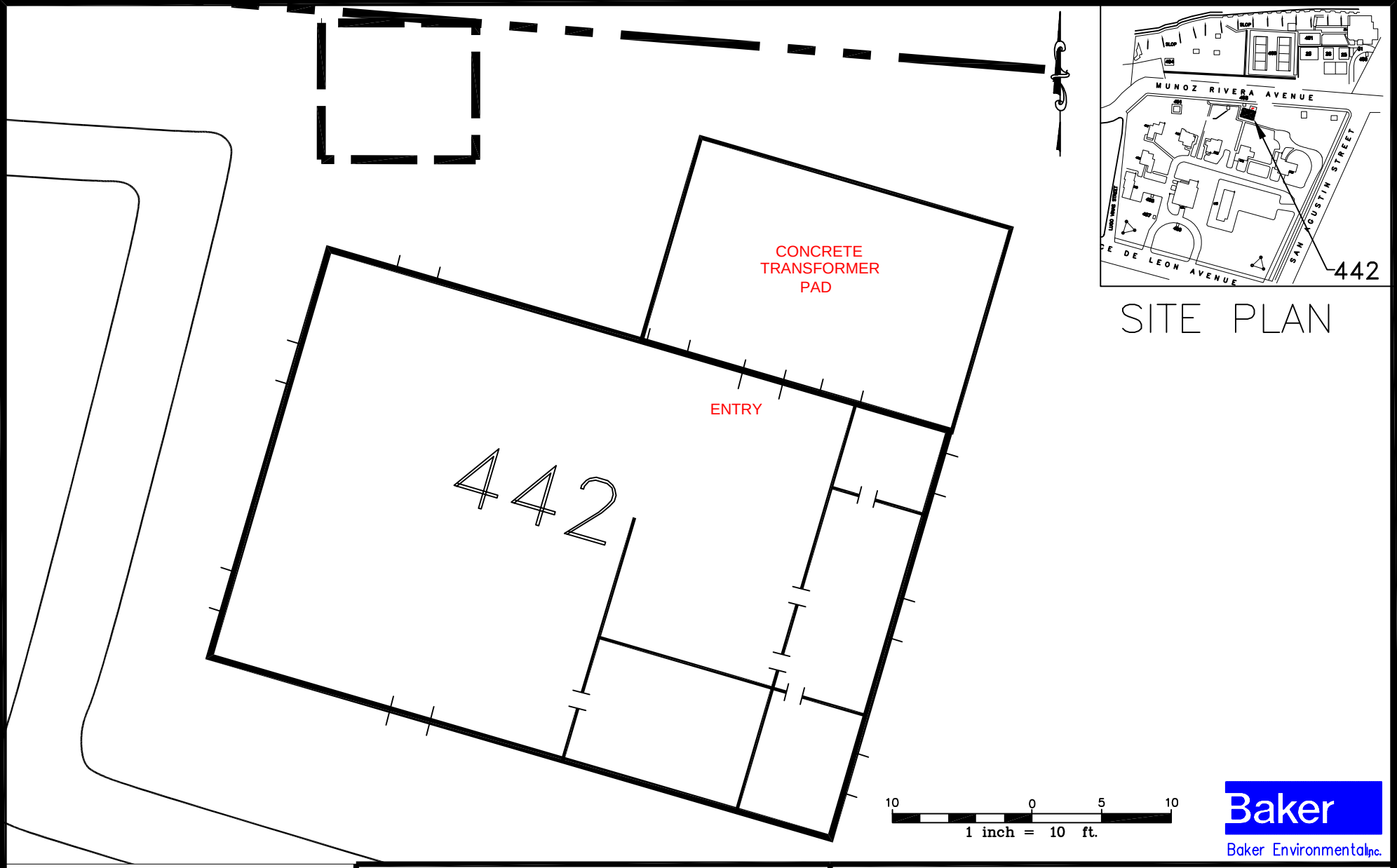

NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3–8
STOP 7–1/2 BUILDING 442
FORMER RADIO STATION POWER HOUSE

SAN JUAN, PUERTO RICO

62470L36 K:\62470\001PHASE\GRAPHICS\CAD

ASBESTOS DETECTED:

1. THERMAL PIPE INSULATION IN ROOMS 1, 2, 3, 6, 10, 11, AND REPORTEDLY IN 9
2. VINYL FLOOR TILE IN ROOMS 4, 5, 6, AND 10
3. FLOOR TILE ADHESIVE IN ROOMS 4, 5, 6, AND 10

FIGURE 3-9
STOP 7-1/2 BUILDING 443A
MESSAGE CENTER AND BUNKER BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

SOURCE: ICF KAISER.
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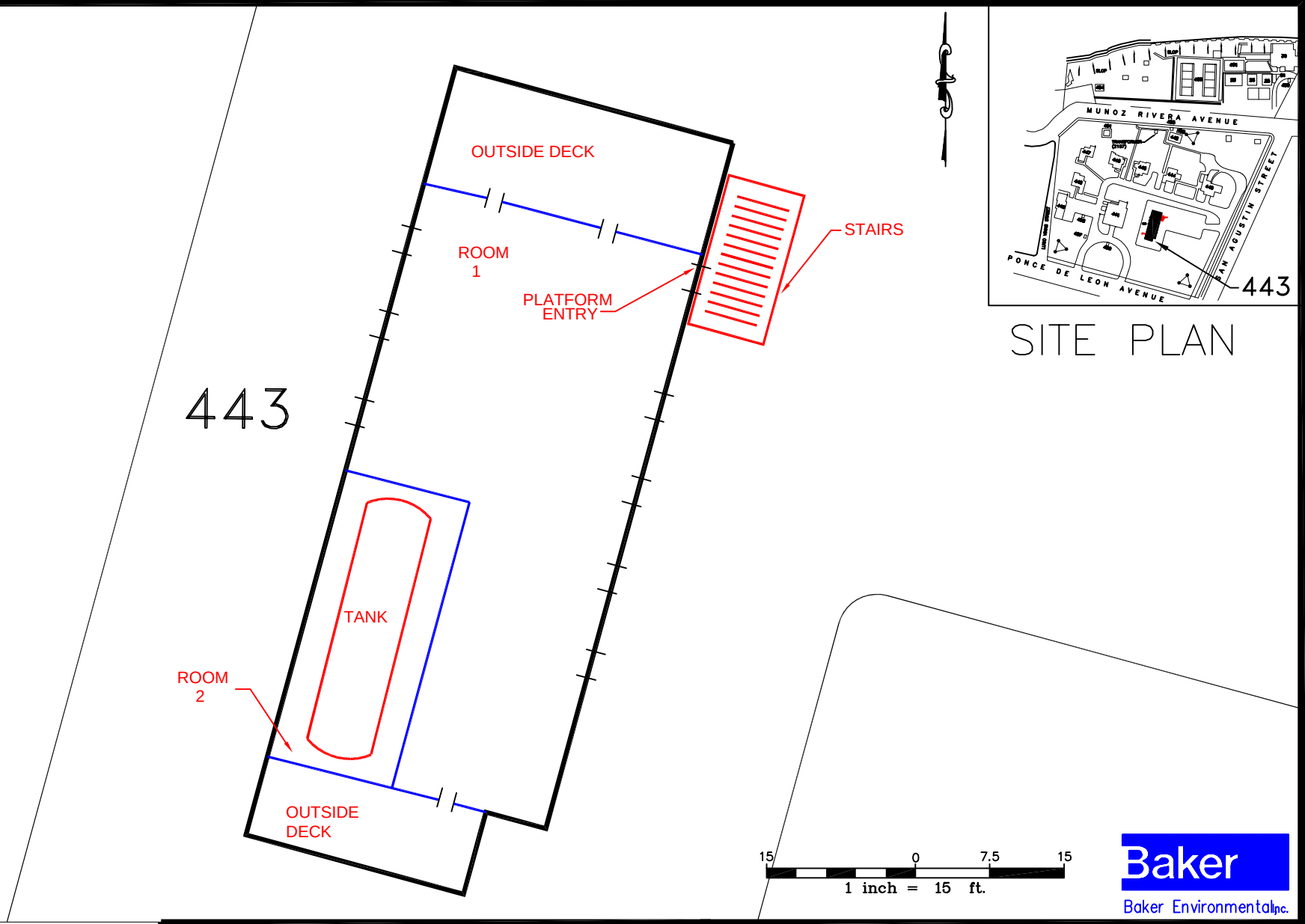
62470L38



ASBESTOS DETECTED:

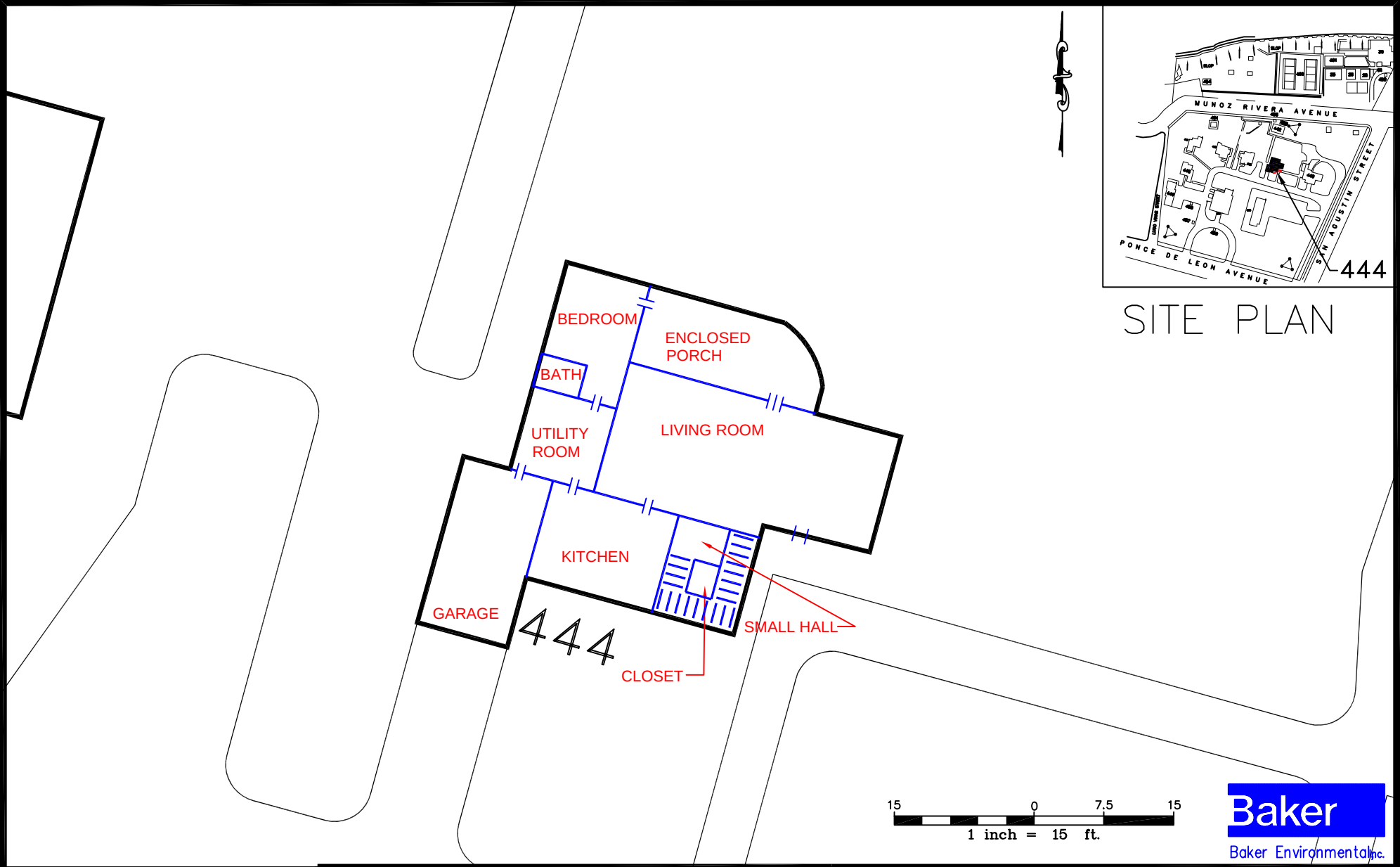
1.VINYL FLOOR TILE AND ADHESIVE IN ROOM 1

SOURCE: ICF KAISER.

FIGURE 3-10
STOP 7-1/2 BUILDING 443B
MESSAGE CENTER BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L51 K:\62470\001PHASE\GRAPHICS\CAD



SOURCE: ICF KAISER.

ASBESTOS DETECTED:

1. VINYL FLOOR TILE, 2nd AND 3rd LAYER, IN UTILITY ROOM
2. FLOOR TILE ADHESIVE UNDER THE 3rd LAYER
3. SINK COATING IN KITCHEN
4. WINDOW PUTTY IN LIVING ROOM

FIGURE 3-11
STOP 7-1/2 BUILDING 444A
UNOCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

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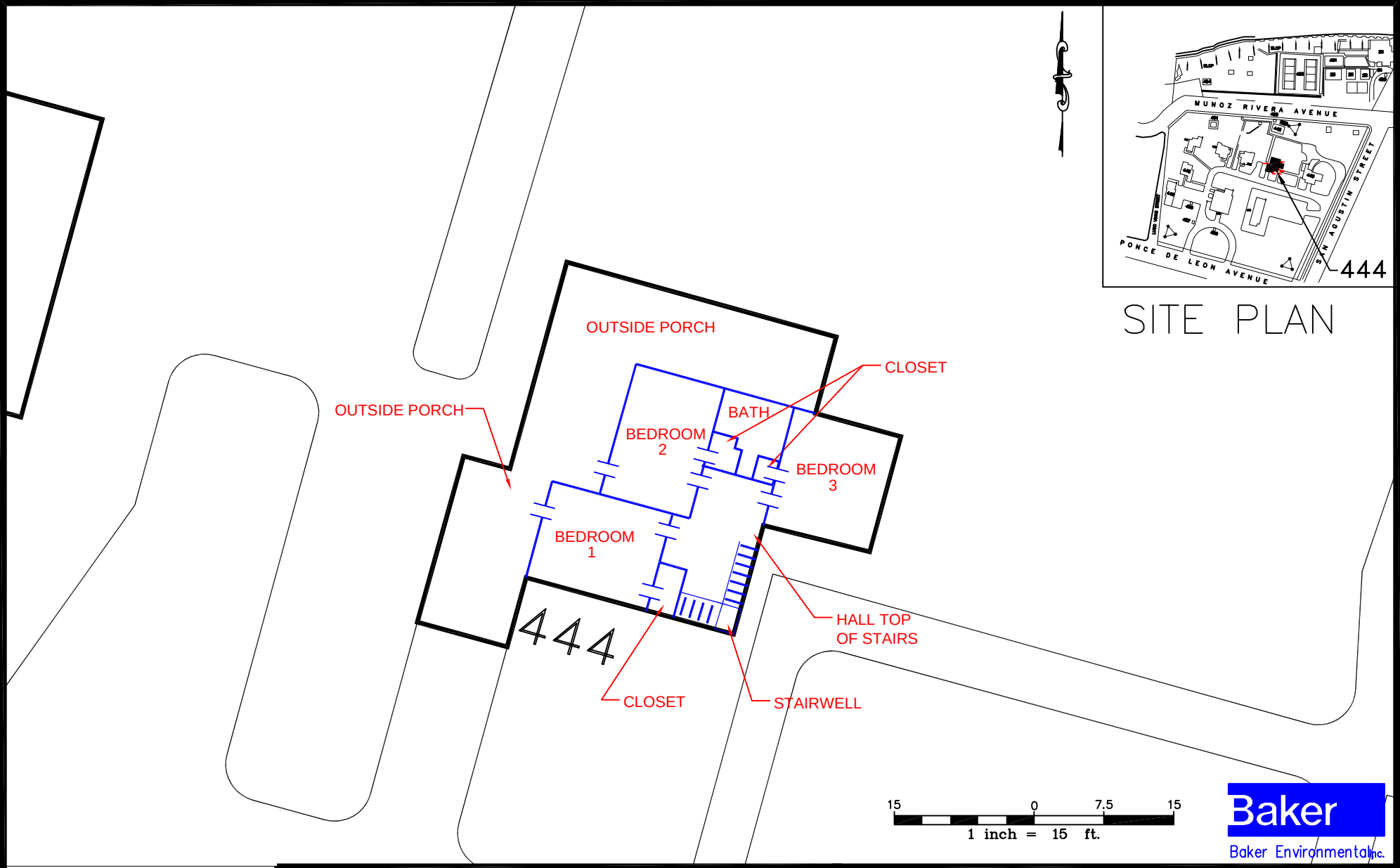

SOURCE: ICF KAISER.

ASBESTOS DETECTED:

1. WINDOW PUTTY IN HALL BATHROOM AND BEDROOMS
2. ASPHALT ROOFING MATERIAL ON ROOF
3. TAR COATING – OUTSIDE WEST LEDGE OF 2nd FLOOR PATIO

FIGURE 3–12
STOP 7–1/2 BUILDING 444B
UNOCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L47 K:\62470\001PHASE\GRAPHICS\CAD

NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3-13
STOP 7-1/2 BUILDING 445A
OCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

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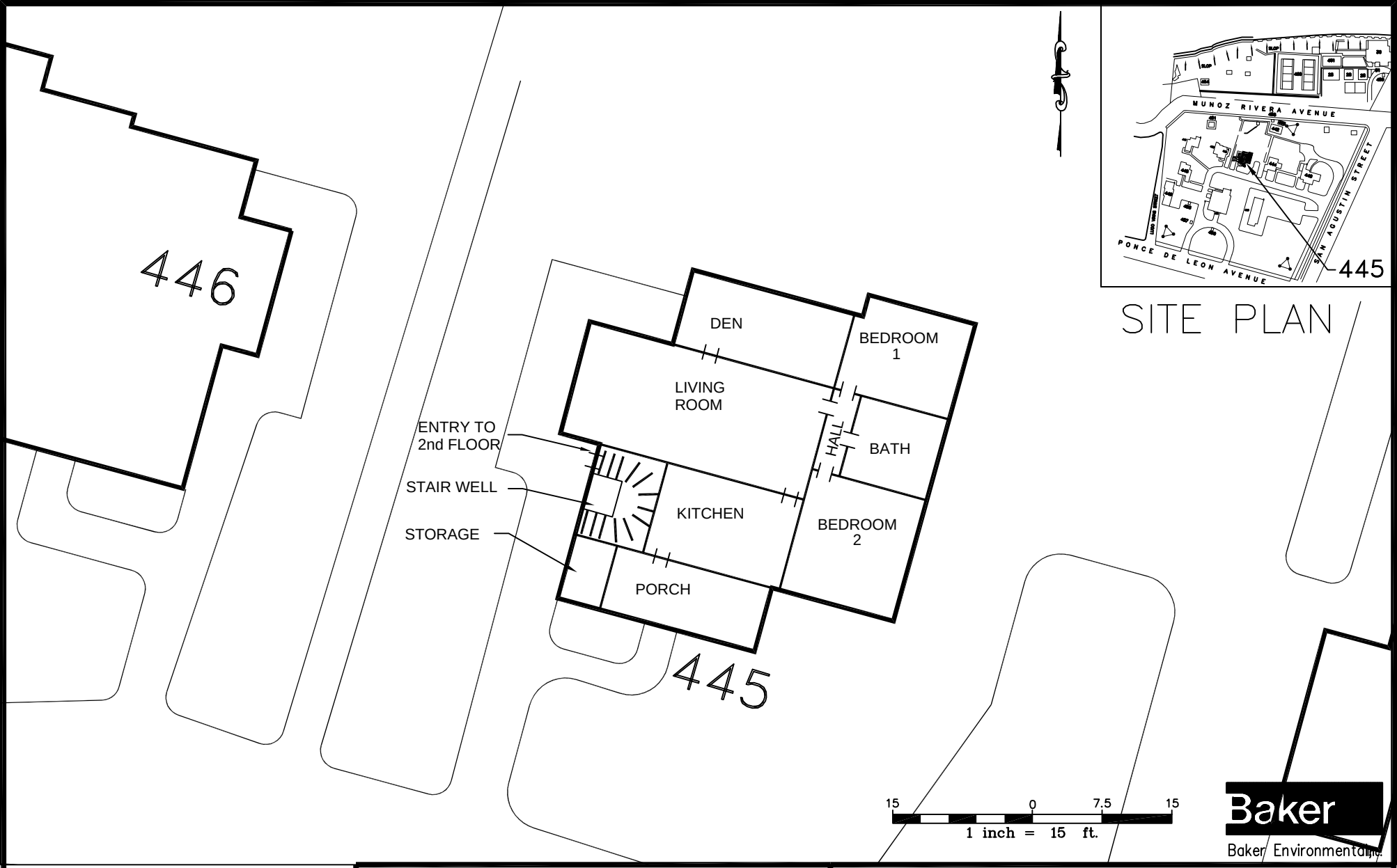


NO ASBESTOS DETECTED

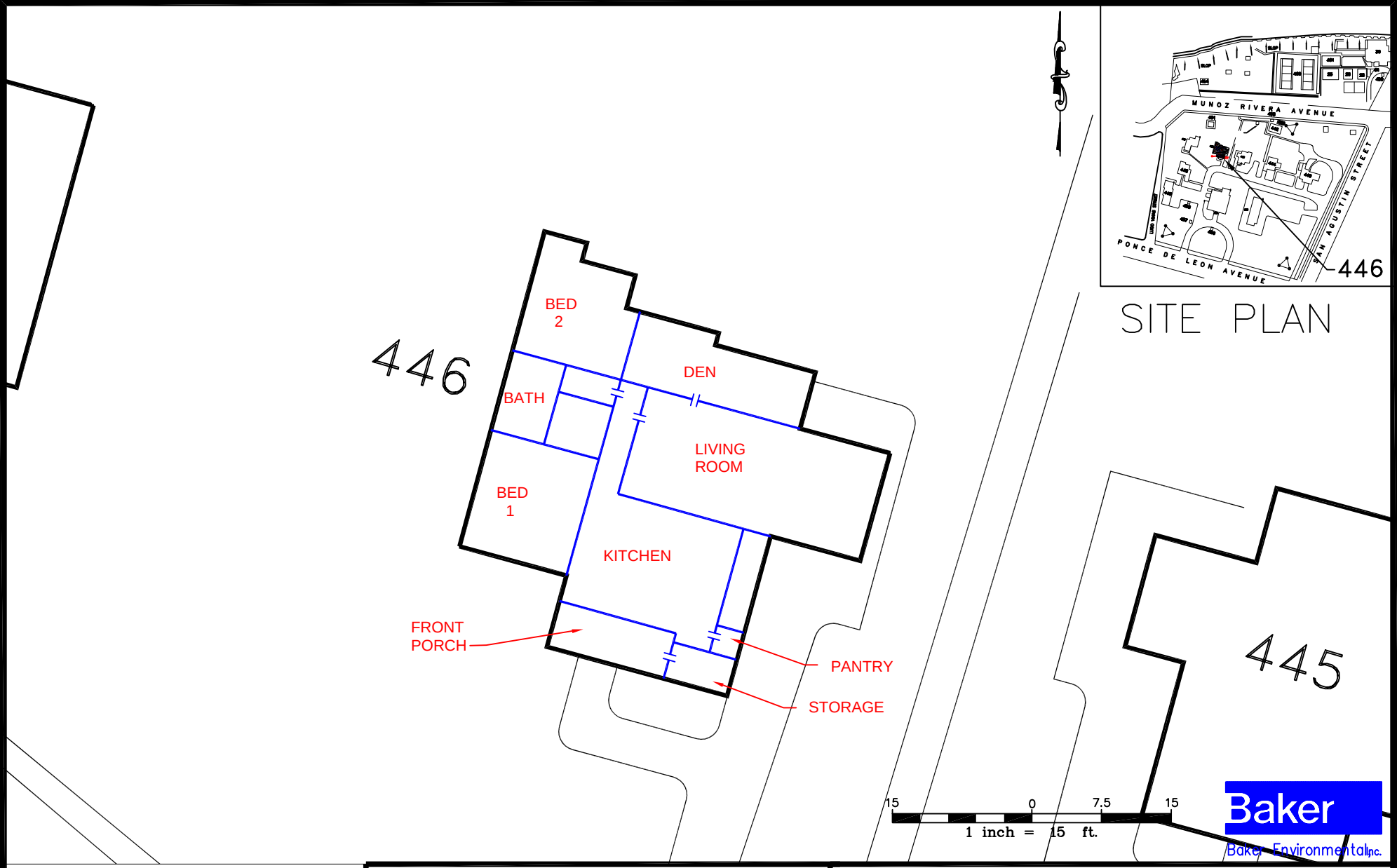
1.ROOFING MATERIAL NOT SAMPLED

SOURCE: ICF KAISER.

FIGURE 3–14
STOP 7–1/2 BUILDING 445B
UNOCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L40 K:\62470\001PHASE\GRAPHICS\CAD



NO ASBESTOS DETECTED

SOURCE: ICF KAISER.

FIGURE 3-15
STOP 7-1/2 BUILDING 446A
OCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

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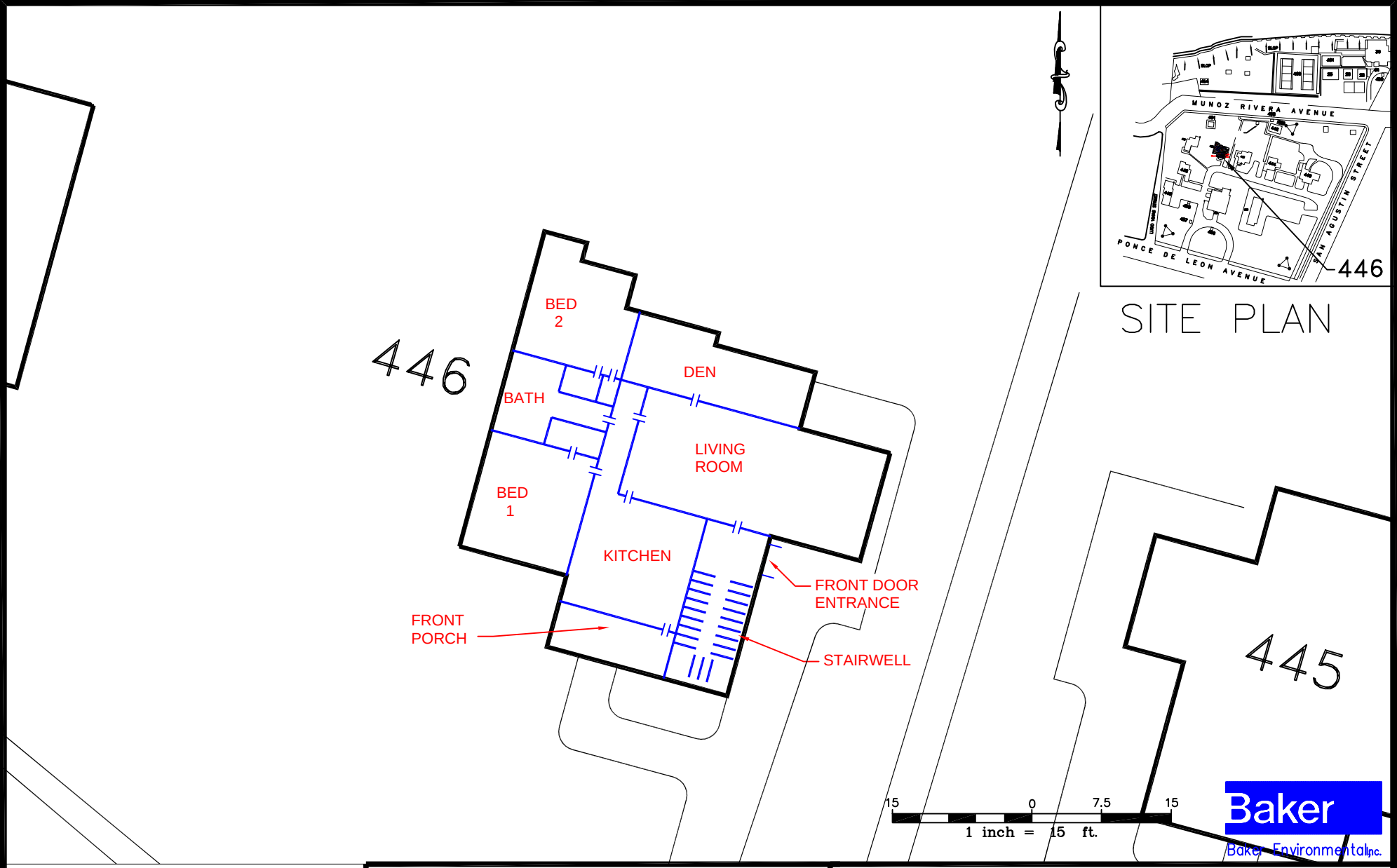


NO ASBESTOS DETECTED

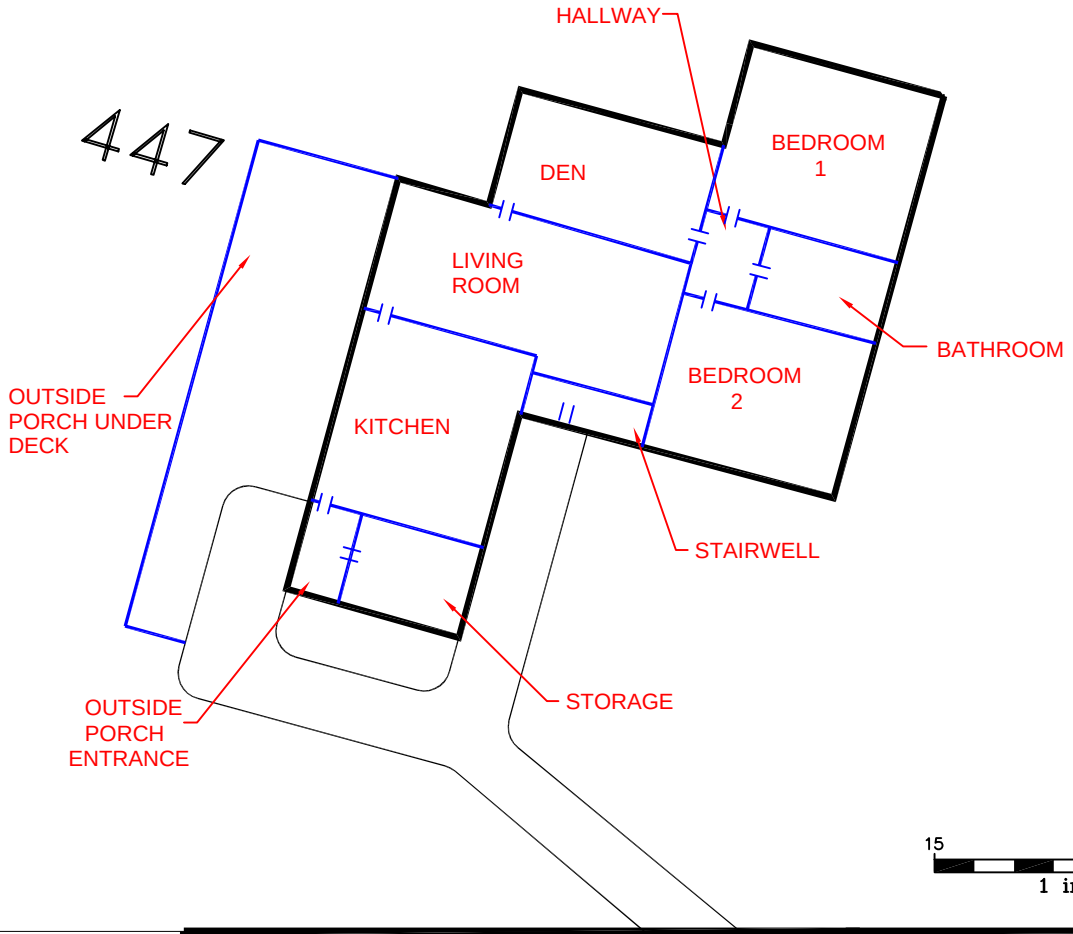
1.ROOFING MATERIAL NOT SAMPLED

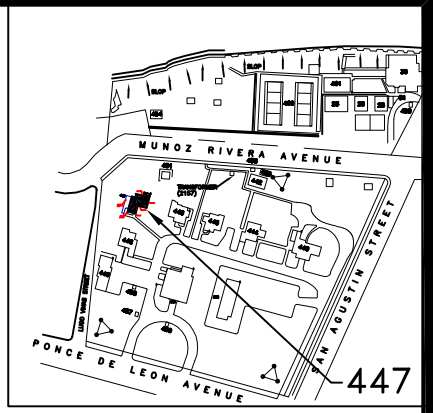
SOURCE: ICF KAISER.

FIGURE 3–16
STOP 7–1/2 BUILDING 446B
OCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L42 K:\62470\001PHASE\GRAPHICS\CAD





SITE PLAN

15 0 7.5 15
1 inch = 15 ft.

Baker
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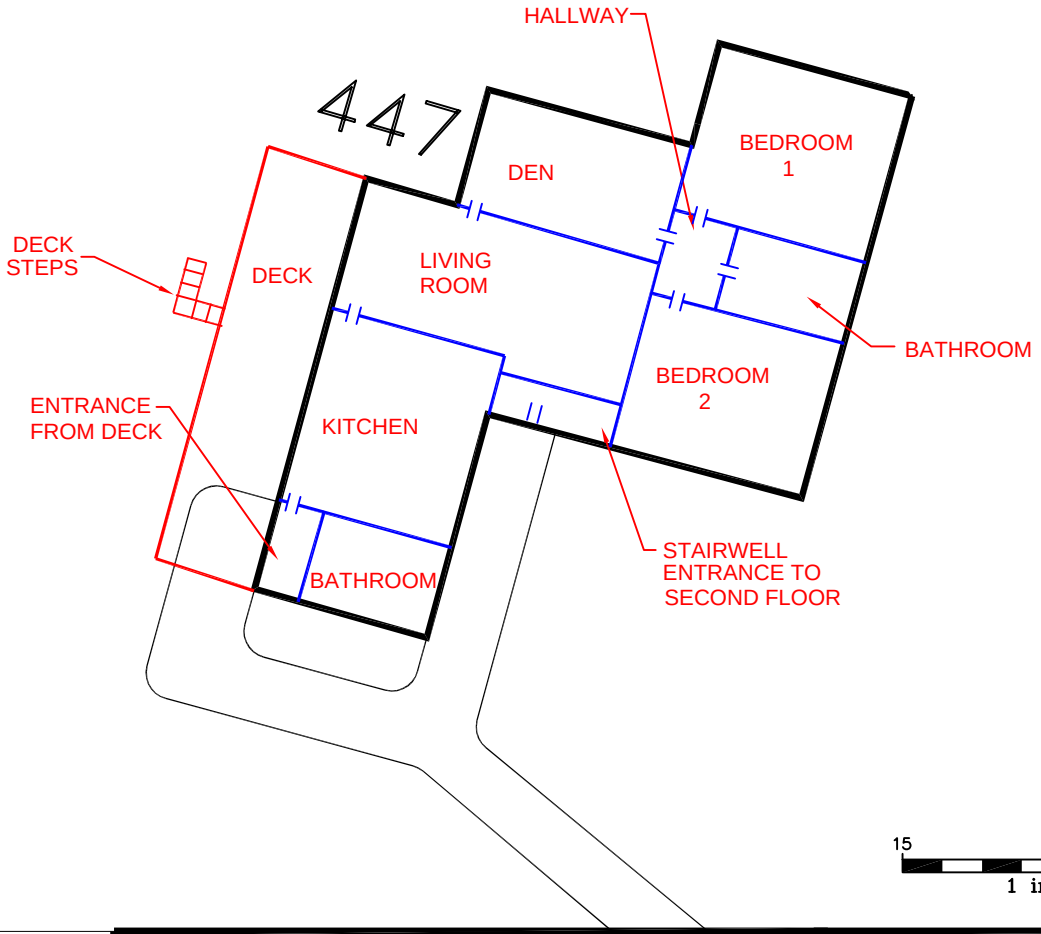
NO ASBESTOS DETECTED

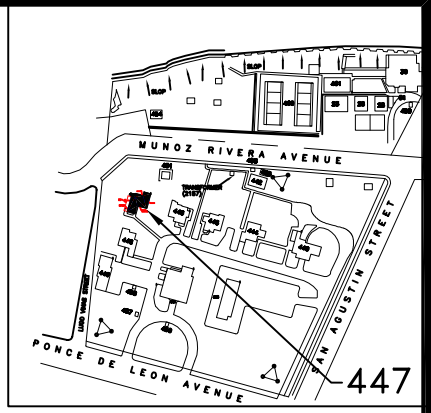
SOURCE: ICF KAISER.

FIGURE 3-17
STOP 7-1/2 BUILDING 447A
OCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

62470L44 K:\62470\001PHASE\GRAPHICS\CAD





SITE PLAN

15 0 7.5 15
1 inch = 15 ft.

Baker
Baker Environmental Inc.

ASBESTOS DETECTED:

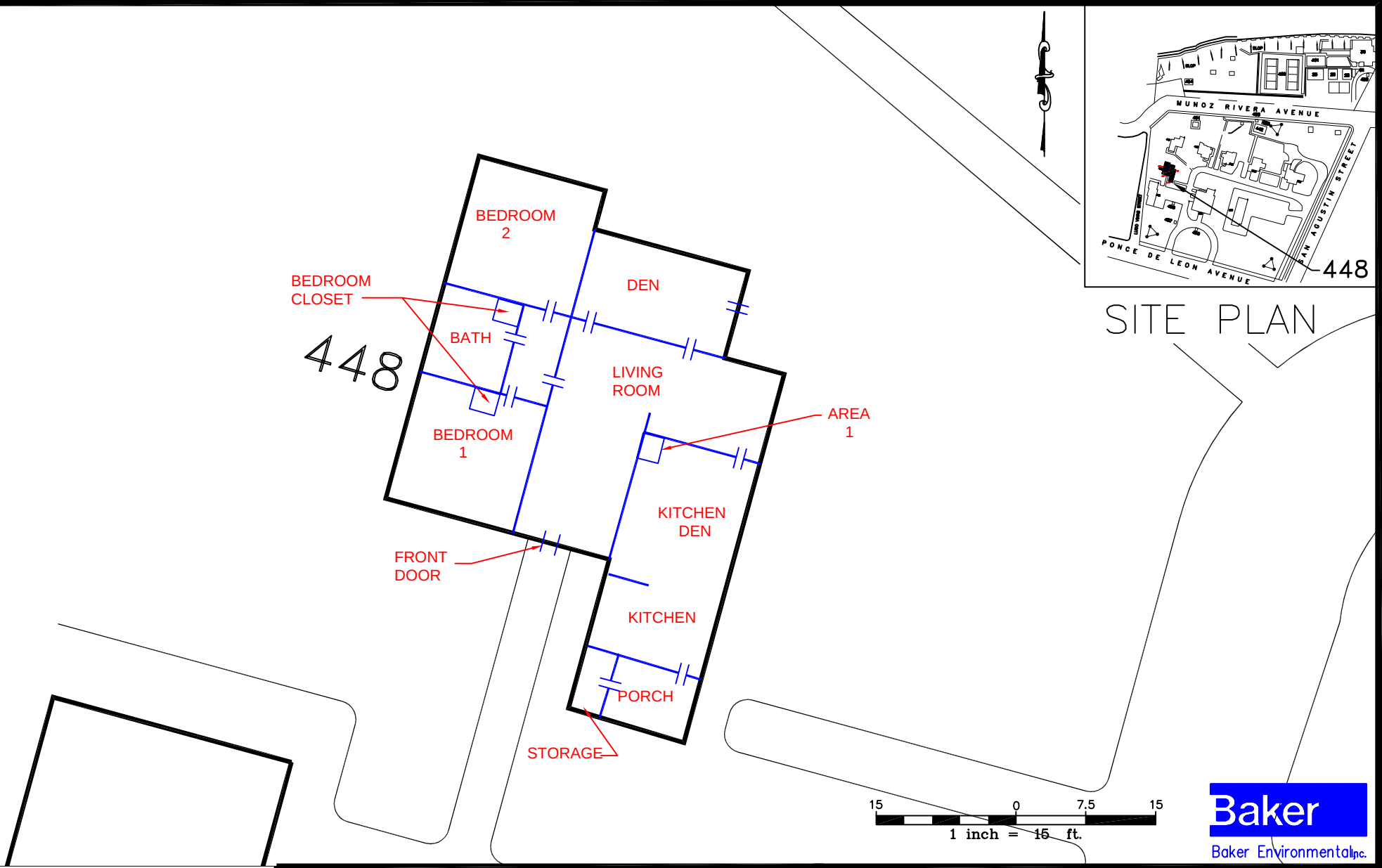
1.ASPHALT ROOF FLASHING ON ROOF

SOURCE: ICF KAISER.

FIGURE 3-18
STOP 7-1/2 BUILDING 447B
OCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L43 K:\62470\001PHASE\GRAPHICS\CAD



ASBESTOS DETECTED:
1.THERMAL PIPE INSULATION IN KITCHEN DEN AREA AND BEDROOM CLOSETS, VARIOUS ENCLOSED PIPE CHASES IN IN LIVING ROOM, HALLWAY, AND BATHROOM
SOURCE: ICF KAISER.

FIGURE 3-19
STOP 7-1/2 BUILDING 448A
OCCUPIED RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

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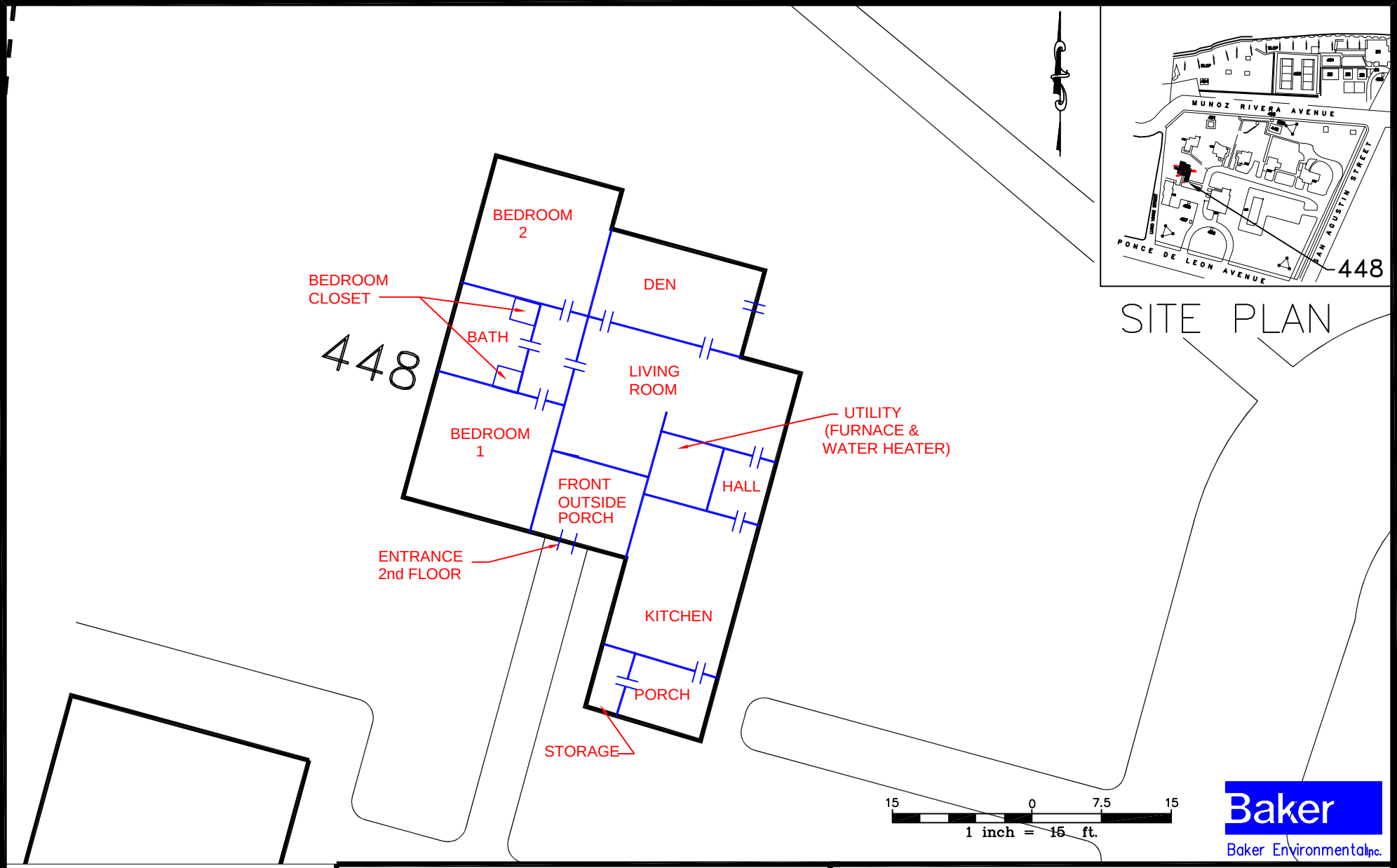


NO ASBESTOS DETECTED

1. ROOFING MATERIAL NOT SAMPLED

SOURCE: ICF KAISER.

FIGURE 3-20
STOP 7-1/2 BUILDING 448B
UNOCCUPIED RESIDENT BUILDING
SECOND FLOOR

SAN JUAN, PUERTO RICO

62470L46 K:\62470\001PHASE\GRAPHICS\CAD

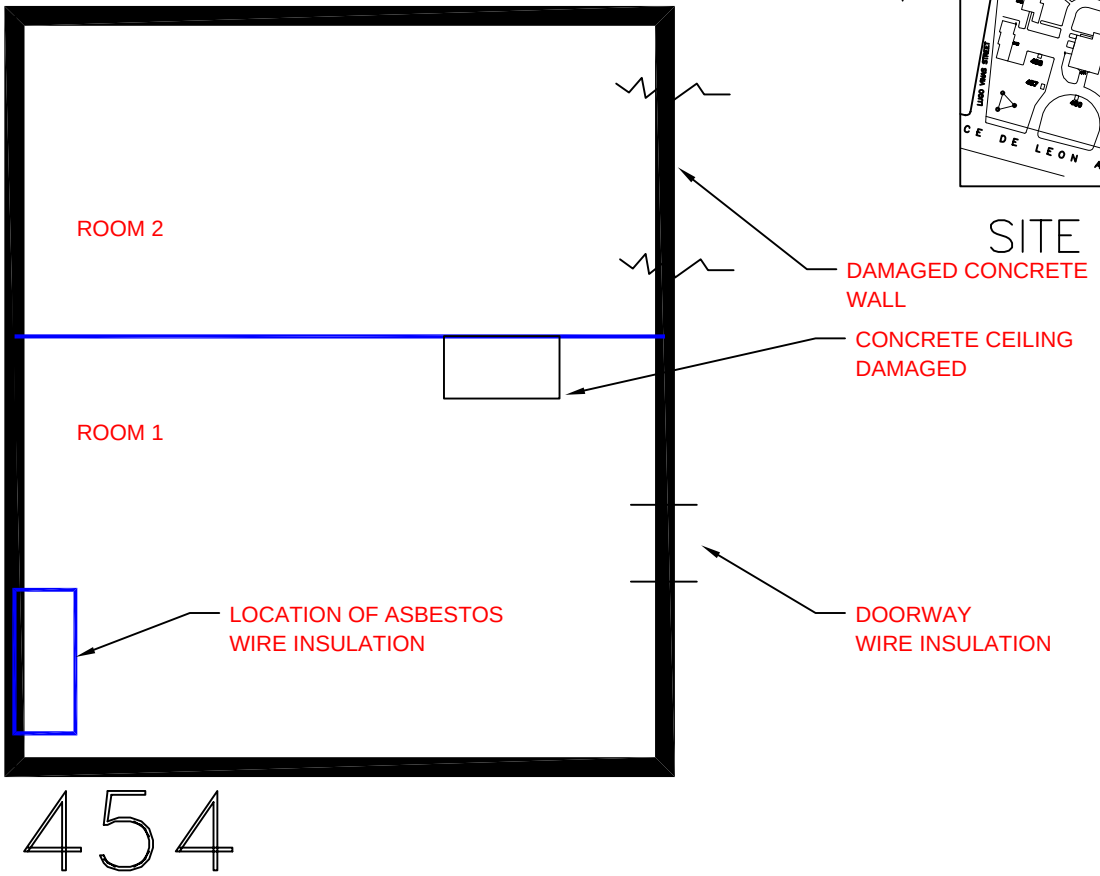
NO ASBESTOS DETECTED

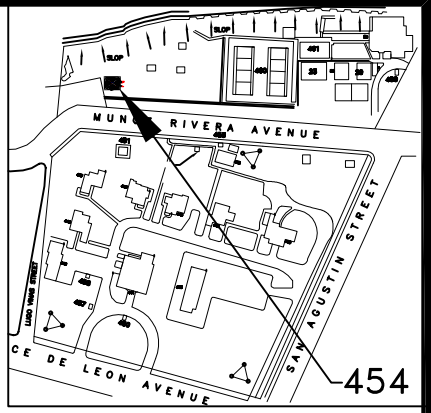
SOURCE: ICF KAISER.

FIGURE 3-21
STOP 7-1/2 BUILDING 449
CARPENTER SHOP/GARAGE

SAN JUAN, PUERTO RICO

62470L52 K:\62470\001PHASE\GRAPHICS\CAD





SITE PLAN

5 0 2.5 5

1 inch = 5 ft.

Baker

Baker Environmental Inc.

ASBESTOS DETECTED:

1.WIRE INSULATION IN ROOM 1

SOURCE: ICF KAISER.

FIGURE 3-22
ROBC BUILDING 454
FORMER DETECTION SYSTEMS
LABORATORY UNOCCUPIED

SAN JUAN, PUERTO RICO

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PHOTOGRAPH LAYOUT

PHOTOGRAPH LAYOUT 3-1
BUILDINGS 28 AND 29

This photograph depicts the tan and red roof shingles on Building 29 areas and that are damaged. The roofing paper beneath the red shingle tested positive for asbestos.

The photographs depict the inside of the men's and women's bath house. The ceiling tile samples and plaster wall samples tested negative for asbestos.

The photograph on the left depicts the damage on the roof of Building 28. The asphalt felt paper from this damaged area was not sampled because access to this roof was not attainable. Estimated quantities of ACM include this roofing material because similar samples of apparent homogeneous material from Buildings 29 and 30 were positive for asbestos. The photo on the right depicts the west and south side of Building 28 on the left side, and the south side of Building 29 on the right.

PHOTOGRAPH LAYOUT 3-2
BUILDING 30

This photograph depicts the north side of Building 30 facing west. Note the three types of shingles (red, white, and green) on the roof that have been replaced at various times.

The left photograph is the roof of Building 30 with the identical red shingles that are found on the roofs of Buildings 28 and 29. The right photograph is the flat black portion of the roof is Building 31, which was negative for asbestos. The roof of Building 29, foreground and Building 30, top of picture, is also visible. Samples of felt paper from Buildings 29 and 30 tested positive for asbestos.

These are views inside the dining areas of Dumas Restaurant, Building 30, the ceiling tile and plaster walls, visible in the photo tested negative for asbestos.

PHOTOGRAPH LAYOUT 3-3
BUILDING 440

This picture depicts the (south side) main entrance into the two story unoccupied Resident Building 441.

This is a picture of the 12 inch by 12 inch beige vinyl floor tile sampled and found to be positive for asbestos in the first floor laundry room of Building 441. The adhesive beneath the tile is also positive for asbestos.

Building 440 first floor enclosed porch. Ceiling plaster was sampled from this area and determined to be negative. This plaster is located throughout the house.

PHOTOGRAPH LAYOUT 3-4
BUILDING 441

View of second floor room within Building 441. Analytical results of samples of the 12 inch by 12 inch vinyl floor tile and damaged ceiling tile visible in the photographs were negative for asbestos in this building. This floor tile and ceiling tile is located throughout the first and second floors of the building. This material was sampled from multiple locations and all results were negative for asbestos.

This photograph shows the stairwell that descends to the first floor. The adhesive beneath the rubber treads on the steps were sampled and found to be negative for asbestos.

This photograph depicts a first floor office within Building 441. The 12 inch x 12 inch vinyl floor tile are the same as noted in the upper photograph that tested negative for asbestos.

PHOTOGRAPH LAYOUT 3-5
BUILDING 442

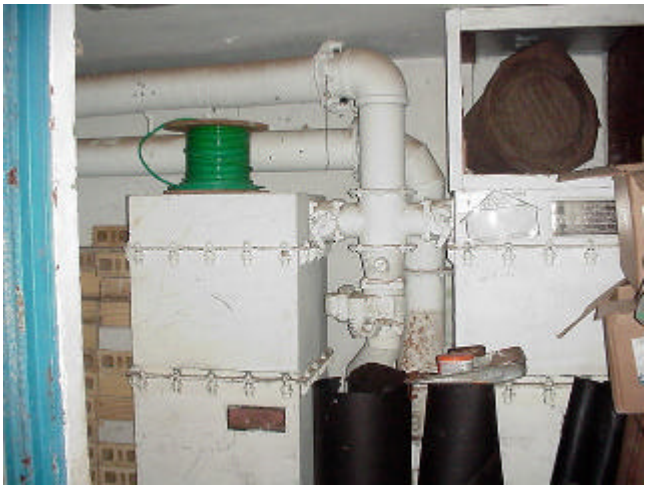
This is a photograph of the south side of Building 442. All the materials sampled, including the roofing material visible in the photograph, were negative for asbestos.

PHOTOGRAPH LAYOUT 3-6
BUILDING 443

This photograph depicts the south side of Building 443.

This photograph depicts the asbestos containing friable pipe insulation in various first floor rooms. Note damage at the base of the pipe in the corner of the room.

This tank is on the second floor of Building 443. The black mastic material tested negative for asbestos.



This equipment is on the first floor of Building 443. The gasket material tested negative for asbestos.

PHOTOGRAPH LAYOUT 3-7
BUILDING 444

The photograph on the left is a view of the kitchen, the black coating on the bottom of the kitchen sink tested positive for asbestos. The second and third layers of vinyl floor tile, shown in the photograph on the right tested positive for asbestos. There is approximately 10 ft^2 of damage to the top layer exposing the layers beneath.

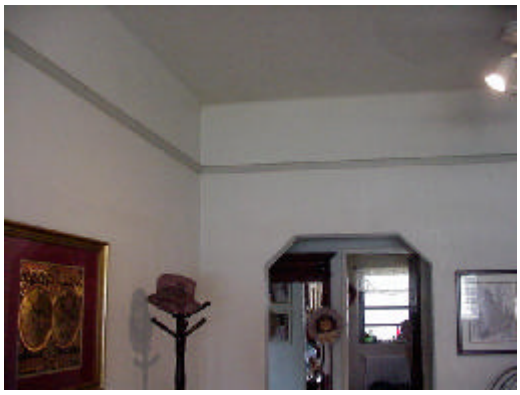
The photograph on the left shows the first floor living room with the missing window. The exposed window putty that tested positive for asbestos was found in missing window locations in the living room, hall, bathroom, and bedrooms. The photograph on the right depicts the (south side) entrance of Building 444. The putty in the glass block window was negative for asbestos, however, the opening to the right of the glass block window had residual window putty that tested positive for asbestos.

The photograph on the left depicts the exposed window putty around the edge of the missing window in the foreground that tested positive for asbestos. The photograph on the right depicts the condition of the asphalt roof that tested positive for asbestos.

PHOTOGRAPH LAYOUT 3-8
BUILDING 445

These photographs depict the living room and kitchen area of unoccupied Resident Building 445 2nd floor. The ceramic floor tiles and plaster-surfaced walls are in good condition. One of three buildings (445, 446, and 447) remodeled in 1997. The plaster and kitchen sink coating tested negative for asbestos.

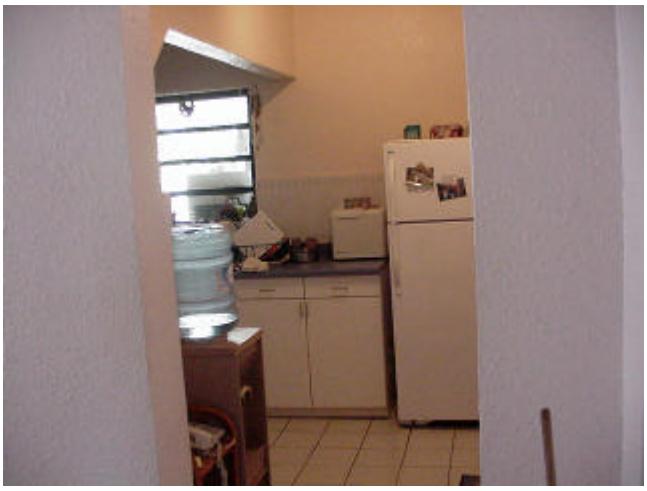
These photographs depict the second floor bathroom entrance. Note the good condition of the ceramic tile and painted plaster surfaced walls. The asbestos samples were negative in Building 445.



The photograph on the left depicts the living room on the first floor of Building 445. The photograph on the right is one of the first floor bedrooms. As noted previously this building was remodeled in 1997 and is in good condition. The asbestos samples were negative for asbestos in Building 445.

PHOTOGRAPH LAYOUT 3-9
BUILDING 446

This photograph depicts the living room of occupied Resident Building 446 first floor floor. The ceramic floor tiles and plaster-surfaced walls are in good condition. One of three buildings (445, 446, and 447) remodeled in 1997. The plaster walls tested negative for asbestos.



This photograph depicts the first floor kitchen. Note the good condition of the ceramic tile and painted plaster surfaced walls. The plaster tested negative for asbestos.

This photograph depicts the sink coating of one of the remodeled units. This material tested negative in this building. It should be noted that similar material tested positive (in the black sink coating) in Buildings 440 and 444.

PHOTOGRAPH LAYOUT 3-10
BUILDING 447

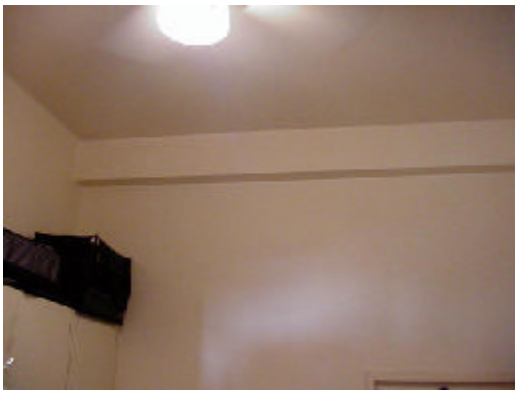
This photograph depicts the inside view of resident Building 447. This Building was one of three remodeled in 1997. The plaster visible in the photograph tested negative for asbestos.

This photograph depicts the south outside entrance to Resident Building 447. The vinyl floor tile that tested negative for asbestos in this building is in the stairwell that leads to the second floor. The doorway to the second floor stairwell is on the left side of the photo.

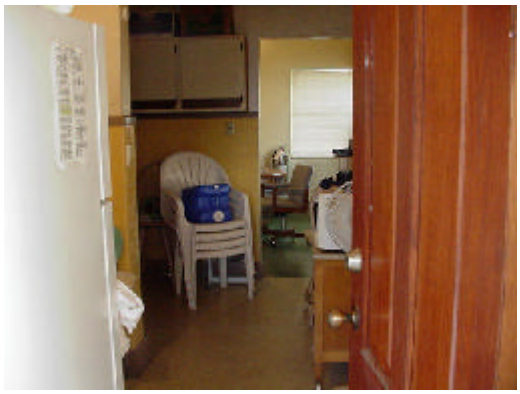
The photograph on the left depicts the second floor living room facing the den. The plaster surfaced walls tested negative for asbestos. This building was remodeled in 1997. The residents were unaware if any vinyl floor tile is underneath the ceramic tile floor. The photograph on the right is a view of the roof. The roof flashing beneath the surface tested positive for asbestos.

PHOTOGRAPH LAYOUT 3-11
BUILDING 448

The photograph on the right depicts the access cabinet to the insulated pipe insulation that tested positive for asbestos. The photograph on the right depicts the pipe insulation that is located inside the access cabinet. Note the damage at the end of the pipe line.



The photograph on the left depicts the first floor living room of Building 448. The photograph on the right is a wooden pipe chase that could not be accessed to verify if there is friable ACM insulation on the pipe line.



The photograph on the left shows the view from the kitchen to the living room. The vinyl floor tile and adhesive in the kitchen and kitchen den tested negative for asbestos. The photograph on the right is the east entrance to the first floor of Building 448.

PHOTOGRAPH LAYOUT 3-12
BUILDING 449

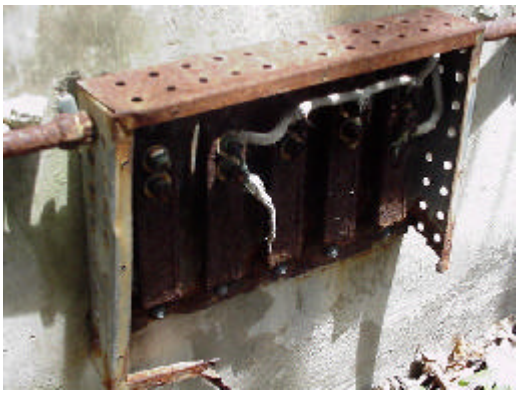
The photograph on the left depicts the two shades of vinyl floor tile that tested negative for asbestos as well as the associated adhesive. The photograph on the right depicts the storage room.

The photograph on the left depicts the north side of Building 449 and the photograph on the right depicts the east side of the building. The paint and building cement samples were negative for asbestos.

The photograph on the left is Room 2, which is in disrepair. The photograph on the right depicts the roof of Building 449. The samples collected from the roof tested negative for asbestos.

PHOTOGRAPH LAYOUT 3-13
BUILDING 454

This photograph depicts the eastside of Building 454. The building is in obvious disrepair with a missing door and damaged wall. Also not visible in the photograph are the holes in the concrete ceiling.

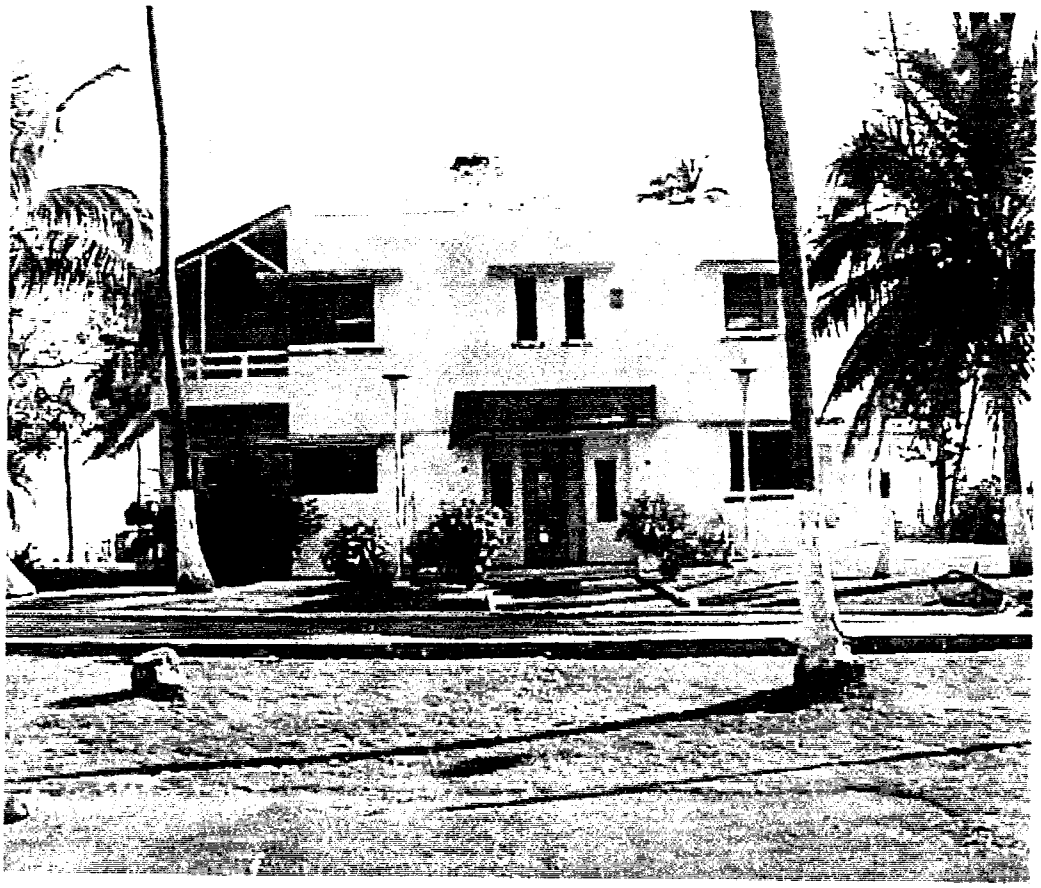


These two photographs show the asbestos containing wire insulation that has significant damage and is exposed to weathering.

This photo depicts the electrical wiring insulation that tested negative for asbestos.

APPENDIX A
LEAD-BASED PAINT EVALUATION TABLES

LEAD BASED PAINT EVALUATION REPORT
AT



U. S. Navy Stop 7-½ Naval Reservation
San Juan, Puerto Rico

Prepared for:

Department of the Navy
Atlantic Division
Naval Facilities
Norfolk, Virginia

By:

Baker Environmental
Corapolis, Pennsylvania

INTRODUCTION

The Department of the Navy (US Navy) is world-wide recognized as a leader in Naval Operations. However, the strengths of organizations are not based on military accomplishments alone, but also by their policies in non military areas; such as health and environmental protection. Supporting this statement the US Navy has solicited Baker Environmental to address lead based paint presence and their associated hazards for the **Stop 7 ½ Naval Reservation** of San Juan, Puerto Rico.

This site, located in a premier location of the city of San Juan, has a scenic ocean view and a very centric location. It was built in the late 1930's and consists of a group of buildings, which include 6 dedicated exclusively for housing. It's architecture is typical Art Deco and is considered to be one of the few remaining architectural examples of it's kind in the island. Archaeological findings by the Puerto Rico Institute of Culture has increased it's historic value and has generated great interest over time.

Environmentally speaking, there is some level of concern due mainly to the age of the buildings, the associated construction materials used at that time, as well as any prior uses and maintenance. As previously stated this report specifically addresses the presence of lead based paint and it's associated hazards.

Why lead in paint? Because of the many benefits it has, such as durability, color enhancement, mold and mildew resistance, rust inhibition, abundance which lead to low cost and others...

Unfortunately the many benefits were accompanied by adverse effects. Lead when inhaled or ingested can lead to blood poisoning, considered a mayor public health risk. In fact it is the leading environmentally induced illness in children! So how are they exposed?

Although lead based paint usage has been banned in the United States since 1978, it was used so extensively for so many years that there are still numerous houses which contain lead based paint. A good example is a house which is no longer painted with lead based paint, however, it still exists under the newer paint.

In time, this "covered" paint may become a hazard, due to the deterioration of the many paint layers, substrate failure, moisture effects, impact, friction and even by a child's bites and scratches.

This normal child activity comes at an age where they tend to put everything in site into their mouths, especially their own fingers. Just imagine any child under 6 years of age crawling or walking on the floor. He collects leaded dust or paint chips in his hands and then puts them in his mouth... to his surprise, it tastes

sweet! Since lead may have a sweet flavor, this invites children to additional taste bud satisfaction, which leads to eating more of this new delight. This act called pica allows lead to access the child's blood, and since a child undergoes rapid neurological and physical developments under the age of 6, it quickly absorbs the poison which reaches the kidneys, liver, brain and neurological system. This can result in **child lead poisoning** which may cause irreversible health effects or even death!

Since the protection of children's health is one of our nation's highest priority, inspecting for lead based paint and addressing it's potential hazards is strongly encouraged, or rather, required by Federal Agencies.

This is when **rules and regulations** come in place; in order to address the resulting "situations" which have occurred due to this potential hazard.

The strongest move regulatory wise came through Title X, which is the Residential Lead Based Paint Hazard Reduction Act, a portion of the Housing and Community Development (**HUD**) Act of 1992.

In order to protect workers from occupational exposures, the Occupational Safety and Health Administration (**OSHA**) developed a lead standard found in 29CFR1926.62.

The Environmental Protection Agency (**EPA**) has also addressed lead contamination in the environment through the Toxic Substance Control Act (TSCA) and CERCLA. EPA together with the Department of Defense (**DOD**) prepared a Field Guide which includes detailed regulatory information and specific lead evaluation procedures which in some parts are more stringent than other applicable regulations.

Since all work is to be conducted in Puerto Rico, it is important to comply with the Rule for the Control of Lead Based Paint Abatement Activities. These are the rules regarding lead established by the Lead Based Paint Office, a division of the Toxic Substances Control Program, of the Puerto Rico Environmental Quality Board (**PREQB**).

Many of these rules, regulations, guidelines and recommendations are included in this report as supplementary information and quick reference. They were reviewed and taken in consideration while preparing for the completion of this lead evaluation.

EVALUATION REPORT FORMAT

This report has been prepared to enable a non scientific, non lead based paint connoisseur to be able to read and clearly understand the information provided. Although regulatory protocols may be highly technical and elaborate, the intention is to make sure that anybody who has access to this document can make use of it although he may have no knowledge or experience in this particular area.

To those of us who are fluent in the environmental jargon, and who understand the need for scientifically based, verifiable and duplicable results to support our findings - you too will find that this document includes quality assurance and control measures including raw data, spectrums, field notes and specific applicable regulations.

This report has been prepared to include both the inspection and the risk assessment per individual housing unit as one document. Together they are called a lead evaluation. To minimize the time needed to obtain important information for each particular unit, we provide a summary at the beginning of each individual unit section. This summary will answer in plain and simple English the following questions:

1. Is there lead based paint in this housing unit?
2. Where is it located?
3. Do I have lead hazards, and if yes, what are they?
4. What options are available?

Once these questions are answered, then you may continue to take an in-depth look at the supporting documents for more specifics such as photographs, location drawings, positive and negative XRF results, XRF K & L spectrums, laboratory analysis results, COC forms and others. It should also answer the following additional questions:

1. In what condition is the existing lead based paint?
2. What are their approximate quantities?
3. Do I have lead dust hazards?
4. Do I have lead in the soil hazards?
5. What possibly caused these hazards?
6. What can I do to control this hazard?
7. How much will this cost to resolve?

Now allow us to give you a detailed review of the lead based paint evaluation protocol. This is what we did - step by step.

Let us begin with the inspection process.

LEAD INSPECTION PROTOCOL

Although the report includes supporting documents which describe this protocol in a very detailed manner, we include this section to clearly explain the step by step process for an inspection. It also describes procedures which are specific and perhaps unique for this particular inspection. So, what is a lead inspection?

A lead based paint inspection is a **surface by surface investigation** to determine the presence of lead based paint and then providing a report explaining the results of the investigation.

The **purpose** of a lead based paint inspection is to obtain the following information:

1. Is there lead based paint present?
2. Where is it?

The inspection process begins with issuing side identifications to each exterior building wall. In this particular case we decided to identify all the walls which faced the Naval Reservation entrance, which is South, as Side A. That means that every time we identify a wall of the housing, even interior ones, we would do so by identifying where it faces. If it faces the Reservation entrance it is Side A, then Side B would be the next wall clockwise from Side A. Then clockwise again for Side C, which is always opposite to A. Continue clockwise to the next wall, now D, which is always opposite to Side B. To avoid any possible confusion please reference the housing layout diagram which identifies all wall sides as A, B, C & D.

Next you conduct a walk through and familiarization of the housing unit. You begin by identifying every part of the residence such as rooms, foyers, staircases, bathrooms and others. We decided to name each room by their use such as: laundry room, kitchen, den & others. When entering the housing main entrance you begin by entering and naming the rooms in a clockwise manner. In the case of rooms used as sleeping quarters Room No. 1 is always the first room you find, independent of it's size. The next sleeping quarter would be called Room No. 2 and so forth... To avoid any possible confusion please reference the housing layout diagrams which identify each part of the residence. Once identified we will now call these the housing **room equivalents**.

In each room equivalent we will make a list of every different **substrate**. The substrate is the material underneath the paint and they are to be classified only under six different types. These are: brick, concrete, drywall, metal, plaster or wood. These substrates cover almost all building materials that may be painted and are linked to the XRF sampling method chosen and it's Performance Characteristic Sheet (PCS). (more on this a little later)

A few rules that we apply are: if you have different layers of substrates, one over the other, then you choose the one nearest the painted surface. For example a painted metal plate screwed to a wood door - you would select the metal as a substrate and if exposed, the wood as well. Another rule is: if you have a building material which is not in the 6 list, then you would select a substrate type that may be similar in density. For example a ceramic material is not in the 6 list, so we would list ceramic tile as description, but concrete as substrate.

Then in each room equivalent we list all the **building component** types; these are doors, windows, walls, chair rails, baseboards and others. In those cases where you have several identical building components, we first identify room equivalent, then the side and then you number the component from left to right while facing the component. For example if you have three metal windows Side C of the den, you can identify them as Window 1, then 2 and so on from left to right. In the case of shelves, we identify them by numbering them from bottom to top, in a numerical fashion. Shelf No. 1 is on the bottom, Shelf No. 2 is the second from the bottom, and so on.

Now we can finally do a list of all the **testing combinations**; that is the unique combination of the room equivalents, substrates and building components. Examples of these can be found in Table 7.1. What is important to note is that you can have a room equivalent such as a living room which has two doors, one of wood and another made from metal. Then you would have two testing combinations: living room/door/metal and living room/door/wood...

It is important to note that although paint color is not mentioned as part of the decision process for selection of the testing combinations, an inspector should use his experience and professional judgement to add another testing combination if he suspects that there are variations in color for the same testing combinations.

Although the selection process of what to sample has almost been completed, we must first be sure that we have a qualified inspector providing the inspection services. The **inspector qualifications** include being trained in an Environmental Protection Agency (EPA) and Puerto Rico Environmental Quality Board (PREQB) certified training school; and being registered in the Lead Office of the Toxic Substances Control Program of the PREQB. There is a section of this report which provides these evidences.

Now we can discuss the **inspection method** selected. It was the use of a portable XRF lead based paint analyzer. This method is the most common primary analytical method for inspections of housing because of it's demonstrated abilities to determine if lead based paint is present with much reliability, high speed, low cost when compared with paint chip laboratory sample analysis and also non-destructive in nature. This equipment functions by releasing gamma radiation to a building component. If lead is present in the

components paint, the lead will react by emitting an X-ray of a certain frequency or energy, which the XRF analyzer is able to measure. As the machine measures the amount of X-rays, it displays a reading which is considered positive if it is at or above 1.0 mg/cm2 or negative if the value is below this number. These readings are all stored in the equipment's memory to allow for a later download of all the reading numbers and results in a report form.

There are several important rules to follow in regards to the use of an XRF analyzer. Some of these are: 1. Verify the calibration of your instrument before you begin, every four hours and at the end of your inspection day. Other times are if you lose battery power or shut the machine off. 2. You verify the calibration of your instrument with a known lead film sheet, usually provided by the National Institute of Standards and Technology (NIST) 3. Examine your XRF PCS to assure how to adequately interpret your results.

The XRF selected was a Niton 700 Series XRF Analyzer. Please see the Niton XRF section of this report for additional information regarding it's technical functioning, specifications and it's PCS.

Now we can begin our inspection process which will begin by testing every single testing combination of the housing unit. One sample per testing combination is sufficient, except for walls which require one sample per each wall in the room, usually 4. The information will be logged in a field sheet in which you note the testing combination description and the XRF analysis result. Negatives will be identified as negative only and positives will be accompanied by the actual reading displayed over 1.0 mg/cm2.

In some instances it may be necessary to obtain a **paint chip sample** to send to a laboratory for analysis. The specific scenarios are usually due to inaccessible locations for XRF testing, deteriorated paint and some cases of verifications.

Some important details regarding paint chip sampling are: 1. Sample information must be documented in a chain of custody (COC) form. 2. Samples must be collected using a 2"x2" template, if possible, and the actual measurement registered in your COC form, 3. All layers of paint must be removed down to the substrate, 4. Care must be taken to not remove substrate and include it with the paint, 5. The inspector must use clean disposable gloves at all times and change them between sample taking, 6. Preferably request samples to be analyzed and results delivered in mg/cm2, 7. The laboratory chosen for analysis is to be under the National Lead Laboratory Accreditation Program (NLLAP) and the results have to be sealed by a Puerto Rico certified chemist who is an active member of the PR College of Chemists.

Once all samples are taken, a report shall be generated which includes all the described information.

If lead is found to be present in the housing unit then keep in mind that there are requirements in the federal law which require **disclosure** of this information to prospective renters, lessees entering a new lease, or others renewing their old leases. The same applies for prospective purchasers. In this particular case, the US Navy has decided to perform an inspection based on their policies on real estate property transfers.

The protocol which we have just described is not intended for investigating housing where children with elevated blood lead levels are living, although individual interviews with each available housing resident proved that there are no cases as such, it is important to include this **limitation**.

Table 7.1: Examples of Interior and Exterior Building Component Types

Commonly Encountered Interior Painted Components That Should Be Tested Include:	
Air Conditioners	Fireplaces
Balustrades	Floors
Baseboards	Handrails
Bathroom Vanities	Newel Posts
Beams	Other Heating Units
Cabinets	Radiators
Ceilings	Shelf Supports
Chair Rails	Shelves
Columns	Stair Stringers
Counter Tops	Stair Treads and Risers
Crown Molding	Stools and Aprons
Doors and Trims	Walls
Painted Electrical Fixtures	Window Sashes and Trim

Exterior Painted Components That Should Be Tested Include:	
Air Conditioners	Handrails
Balustrades	Lattice Work
Bulkheads	Mailboxes
Ceilings	Painted Roofing
Chimneys	Railing Caps
Columns	Rake Boards
Corner boards	Sashes
Doors and Trim	Siding
Fascias	Soffits
Floors	Stair Risers and Treads
Gutters and Downspouts	Stair Stringers
Joists	Window and Trim

Other Exterior Painted Components Include:	
Fences	Storage Sheds & Garages
Laundry Line Posts	Swing sets and Other Play Equipment

CERTIFICATIONS

NITON

CORPORATION

Certificate of Achievement

Miguel A. Oliveras

EXITO

has successfully completed the Manufacturer's Training Course for the
NITON Spectrum Analyzer *and is now certified*
in radiation safety and monitoring, measurement technology,
and machine maintenance of the **NITON XRF Spectrum Analyzer.**
(CIH's - The ABIH awards 1 CM point, approval #5827)

A0032335075
Certificate Number

03/23/00 Billerica, MA
Date & Site of Course

OFFICIAL SEAL OF EXCELLENCE

Victoria Grzybowski
Training Coordinator

Kenneth P. Lefevre
Director of Training

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

Labra #1004 Street, 2nd. Floor, R. H. Todd Avenue, Santurce, Puerto Rico 00907
Phone: (787) 722-0220; Fax (787) 724-5788

This is to certify that

Miguel A. Oliveras

582-81-8502

HAS SUCCESSFULLY COMPLETE REQUIREMENTS FOR THE
LBP INSPECTOR INITIAL COURSE

HAVING SATISFIED THE REQUIREMENTS OF THE PUERTO RICO LEAD POISONING PREVENTION ACT, ENVIRONMENTAL QUALITY BOARD, CHAPTER 15 (30); 0.C.G.A. 31-41-1, ET SEQ AND THE RULES FOR LEAD BASED PAINT ABATEMENT AND CERTIFICATION, CHAPTER 391-3-24

October 12 - 14, 1999

CONDUCTED BY:
ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
155 RIVER COURT PARKWAY, ATLANTA, GEORGIA 30328

CONDUCTED AT: *Km. 22, Hm. 8 Bo. Río, Sunset Hill, Guaynabo, Puerto Rico*

Certificated No. PRT-LI-2008

Passed Exam: October 14, 1999

Expiration Date: October 13, 2000

Ady R

Ady Padan, PhD.
Training Manager

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

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This is to certify that

Miguel A. Oliveras

582-81-8502

HAS SUCCESSFULLY COMPLETE REQUIREMENTS FOR THE
LBP RISK ASSESSOR INITIAL COURSE

HAVING SATISFIED THE REQUIREMENTS OF THE PUERTO RICO LEAD POISONING PREVENTION ACT, ENVIRONMENTAL QUALITY BOARD, CHAPTER 15 (30); 0.C.G.A. 31-41-1, ET SEQ AND THE RULES FOR LEAD BASED PAINT ABATEMENT AND CERTIFICATION, CHAPTER 391-3-24

March 20 to 21, 2000

CONDUCTED BY:
ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
155 RIVER COURT PARKWAY, ATLANTA, GEORGIA 30328

CONDUCTED AT: *Km. 22, Hm. 8 Bo. Río, Sunset Hill, Guaynabo, Puerto Rico*

Certificated No. PRT-LRSFC-0004

Passed Exam: March 21, 2000

Expiration Date: March 20, 2001

Ady Padan, PhD.
Training Manager

Fernando L. Rodríguez, P.E. & Associates
Chemical/Environmental Engineering and Industrial Hygiene Consultants

Certificate

MIGUEL A. OLIVERAS

S.S. #582-81-8502

Has completed coursework and satisfactorily passed an examination that meets the criteria required for EPA/AHERA (TSCA Title II) Approved Accreditation and NESHAP's Regulations Training

Asbestos in Buildings: Inspector and Management Refresher Course

On this 3rd day of November, Nineteen Ninety Nine.

FLRA-99260

November 3, 1999
Examination Date

November 2, 2000
Expiration Date

Fernando L. Rodríguez, P.E.
Course Director

Urb. Beliza, 1522 Bori St., Río Piedras, Puerto Rico 00927 Tel. (787)751-7810/7825 Fax:(787)751-8988
EQB School Certification No. ASB-0899-0003

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # 7ME01130001IR007

This is to certify that

Miguel A. Oliveras

has on 01/13/00, in LAWRENCE, KS
completed the requirements for asbestos accreditation under Section 206 of TSCA, Title II, 15 U.S.C. 2646

AHERA Asbestos Inspector Refresher Training

as approved by the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)
on 01/13/00 - 01/13/00 and passed the associated examination on 01/13/00
with a score of 70% or better
C M = 0.5 PTS.

Instructor

President

Soc. Sec #: 582-81-8502
Accreditation Expires: 01/13/01

M E T A - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382

AIR ANALYTICS

certifies that

Ramón E. Ramírez

has attended and satisfactorily completed training on 2/13/99,
and passed an examination covering the content of the
EPA Regional Training Center Program

Lead Inspector Certification Training Course

In accordance with U.S.E.P.A. requirements, and in testimony whereof,
we do confer this certificate at Vega Baja, Puerto Rico, February 13, 1999.

Edward A. Nuñez, CSP/CIH
Course Director

AIR ANALYTICS
IN PURSUIT OF SAFETY AND HEALTH
IH
IAQ

Certificate # AA021399PbI2
Soc. Sec # 584-13-9385

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Certificate of Achievement

Ramon E. Ramirez

has successfully completed the Manufacturer's Training Course for the
NITON Spectrum Analyzer *and is now certified*
in radiation safety and monitoring, measurement technology,
and machine maintenance of the NITON XRF Spectrum Analyzer.
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99042129173
Certificate Number

03/25/99 Puerto Rico
Date & Site of Course

Victoria Grzybinski
Training Coordinator

Kenneth P. Martz
Director of Training

AIR ANALYTICS

certifies that

Ramón E. Ramírez

has attended and satisfactorily completed training on 2/13/99,
and passed an examination covering the content of the
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Edward A. Nuñez, CSP/CIH
Course Director

AIR ANALYTICS
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IAQ
IN PURSUIT OF SAFETY AND HEALTH

Certificate # AA021399PbI2
Soc. Sec # 584-13-9385

Air Analytics - Training Programs 4250 Alafaya Trail, Suite [illegible]-332, Oviedo, Florida 32765, 407/359-1974

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99042129173
Certificate Number

03/25/99 Puerto Rico
Date & Site of Course

Victoria Grzybowski
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QUALITY CONTROL PROGRAM

All AESI laboratory analyses are performed following proven standard analytical techniques. To insure quality, AESI has developed a quality control program with the following features:

- Compliance with approved EPA and NIOSH methods for sample collection, preservation, storage, analysis, and disposal.
- Participation in the National Voluntary Accreditation Program (NVLAP), Proficiency Analytical Testing (PAT) Program, EPA Drinking Water Program, and Environmental Lead Laboratory Accreditation (ELLAP).
- Quarterly participation in proficiency rounds administered by the New York Department of Health.
- Chain of Custody Record (COCR) is maintained on all samples both during the collection phase of the work and during the in-house analysis.
- Use of statistical parameters, or control charts to monitor accuracy of analyses and overall laboratory effectiveness.
- The foremost analytical instruments available are used for analysis. Instrument Operators have received formal training and are certified through results of performance evaluation samples for their competence to use the analytical instruments.
- Use of reference collection of samples to insure analyst accuracy.
- Monthly audits of mobile laboratory condition and equipment, procedure, project record keeping, and reference materials.
- Method reagent blanks are analyzed at a rate of one for every set of samples.
- Matrix spikes are analyzed at a rate of at least one or 5% of the samples in a sample set with the same or similar matrix. Each type of matrix in a set is spiked at least once.
- Reagent water blanks are analyzed at a rate of one for every sample set.

- Duplicate samples or duplicate matrix spikes are analyzed at a rate of 5% of the samples in a set.
- Quality Control check samples (performance evaluation samples) are analyzed in duplicate at least twice yearly.
- Complete files are maintained for analytical sample certificates of analysis, reagent certificates, and sample container certificates.
- Complete hard copy of QA/QC files are maintained for customer examination of each analysis.

AES International Inc.
Analytical Environmental Services International Inc.
Atlanta, Georgia U.S.A. Tel: 770•396•8449 Fax: 770•551•9704
1004 Labra St., 2nd Floor, R.H. Todd Ave., Santurce, P.R. 00907 Tel: 787•722•0220 Fax: 787•724•5788
E-mail (P.R.): AESI@tld.net E-mail (Atlanta): yotal@msn.com

Analytical Environmental Services International, Inc. currently holds the following accreditations:

AIHA	American Industrial Hygiene Association for metals, organic solvents, and fibers analyses (in process)
NVLAP	National Voluntary Laboratory Accreidation Program under the National Institute of Standards and Technology for asbestos fiber by PLM.
ELAP	Environmental Laboratory Approval Program, New York State Department of Health for waste water, solid and air emission analyses.
PAT	Proficiency Analytical Testing Program under the National Institute of Occupational Safety and Health, on a quaterly basis. Proficiency acquired for fibers, and lead
NLLAP	National Lead Laboratory Accreditation Program for dust, soil, and paint
EQB	Environmental Quality Board of PR Asbestos Training Provider Accreditation Lead Training Provider Accreditation
GDNR	Georgia Department of Natural Resources Lead Training Provider Accreditation
PRDOH	Puerto Rico Department of Health for metals, inorganic and organic compounds in drinking water (in process)

AESI International Inc.
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E-mail (P.R.): AESI@tld.net E-mail (Atlanta): yotal@msn.com

AIHA
ential Source

February 28, 1997

John Calderon
Analytical Env. Services, International
Coll Y Toste 50, Suite 3A
Hato Rey, PR 00918

Laboratory ID: 20767

Dear Mr. Calderon:

Congratulations! The AIHA Environmental Lead Laboratory Accreditation Committee (ELLAC) and Analytical Accreditation Board (AAB) have approved your accreditation as an Environmental Lead Laboratory Accreditation Program (ELLAP) laboratory. Your accreditation includes the following matrices: paint, soil and dust wipes utilizing the Standard Operating Procedures (SOPs) of record for digestion and analysis. Any changes to these procedures must be documented by submitting revised SOPs along with the appropriate quality assurance documentation

Enclosed, please find a copy of an AIHA advertising logo and licensing agreement. The logo has been designed for use by AIHA accredited laboratories. If you choose to use this logo in advertising your accreditation in the lead program, please complete and return the agreement form to this office and an original camera ready copy will be sent to you.

Please note that under the policies of ELLAP, laboratory accreditation shall be maintained by continued compliance with ELLAP requirements, which includes proficient participation in the ELPAT program for all matrices for which the laboratory is accredited. Any changes in ownership, laboratory location, personnel, matrices, or significant procedural changes, shall be reported to AIHA in writing within (30) days. The ELLAP accreditation certificate is the property of AIHA and must be returned to AIHA should the laboratory withdraw or be removed from the ELLAP.

Again, congratulations. If you have any problems, questions or concerns, please feel free to contact me.

Sincerely,

Carl Bell
Laboratory Accreditation Assistant

Enclosure
CLB

American Industrial Hygiene Association
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031
(703) 849-8888 (703) 207-3561 fax
InfoFax Service Line (703) 641-INFO or Internet: infonet@aiha.org

THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

is proud to acknowledge that

Analytical Environmental Services, International
Hato Rey, Puerto Rico
Laboratory ID# 20767

has fulfilled the requirements for the Environmental Lead Laboratory Accreditation Program and has earned distinguished recognition as an

AIHA ELLAP ACCREDITED LABORATORY

February 28, 1997 through February 28, 2000

In the following matrices: PAINT SOIL DUST

This program is recognized by the EPA as meeting the requirements of the National Lead Laboratory Accreditation Program established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Zack Mansdorf, PhD., CIH, CSP
President, American Industrial Hygiene Association

Lisa A. Constantine, CIH
Chair, Environmental Lead Laboratory Accreditation Committee

Don Hart, Ph.D., CIH
Chair, Analytical Accreditation Board

PROJECT DATA

Form 5.6
Management Data for Risk Assessment of Lead-Based Paint Hazards in Rental Dwellings (Optional)

NOTE: This form is designed for multiple rental dwellings under one ownership. Such dwellings may be in one property or many.

Part 1: Identifying information

Name of property owner United States Navy

Name of building or development (if applicable) Stop 7 1/2 Naval Reservation

Number of dwelling units 10

Number of buildings 6

Number of individual dwelling units/building 10

Date of construction (if one property) 1938 (if between 1960–1978, consider a screen risk assessment)

Date of substantial rehab, if any 1997 Buildings 445, 446 & 447

List of addresses of dwellings (attach list if more than 10 dwellings are present)

Street address, city, State	Dwelling unit no.	Year built (if known)	Number of children 0–6 years old	Recent code violation reported by owner?	Chronic maintenance problem reported by owner?
	440	1938	None	None	None
	444	↓	↓	↓	↓
	445 A	↓	↓	↓	↓
	445 B	↓	↓	↓	↓
	446 A	↓	↓	↓	↓
	446 B	↓	↓	↓	↓
	447 A	↓	↓	↓	↓
	447 B	↓	↓	↓	↓
	448 A	↓	↓	↓	↓
	448 B	↓	↓	↓	↓

Record number and locations of common child play areas (onsite playground, backyards, etc.)

Number ____

Volleyball Court Swing Set Trampolines (2)

Closed & Empty Small Pool

Form 5.6 (continued)

Part 2: Management Information

List names of individuals who have responsibility for lead-based paint. Include owner, property manager (if applicable), maintenance supervisor and staff (if applicable), and others. Include any training in lead hazard control work (by inspector, supervisor, worker, etc.) that has been completed. Use additional pages, if necessary.

This information will be needed to devise the risk management plan contained in the risk assessor's report.

Name	Position	Training completed (if none, enter "None")
United States Navy	Owner	
Roosevelt Roads Naval St.	Property manager	
Federal Bureau of Prisons	Maintenance	
Mr Charles James	FBOP Assistant Facility Mgr	None
Mr. Dave Multzberger	FBOP Facility Dept.	None
	(787) 749. 4480 x. 7866	

Have there been previous lead-based paint evaluations?

✓ Yes _____ No (If yes, attach the report)

Has there been previous lead hazard control activity?

_____ Yes ✓ No (If yes, attach the report)

This information provided by US Navy

Maintenance usually conducted at time of dwelling turnover, including typical cleaning, repainting, and repair activity.

Repainting: Federal Bureau of Prisons Bldgs 445, 446, 447 + 448

Cleaning: Individual Residents

Repair: Same as Repainting (FBOP)

Other: _____

Comments: _____

Employee and worker safety plan

a. Is there an occupational safety and health plan for maintenance workers?

_____ Yes _____ No (If yes, attach plan) Need to verify!

b. Are workers trained in lead hazard recognition?

_____ Yes _____ No If yes, who performed the training? _____

Not to their knowledge

This information provided by Federal Bureau of Prisons.

Form 5.6 (continued)

This information provided by Federal Bureau of Prisons

c. Are workers involved in a hazard communication program?

✓ Yes _____ No Asbestos, MSDS, Chemicals...

d. Are workers trained in proper use of respirators?

✓ Yes _____ No

e. Is there a medical surveillance program?

_____ Yes _____ No

6. Is a HEPA vacuum available?

_____ Yes ✓ No

7. Are there any onsite licensed or unlicensed day-care facilities?

_____ Yes ✓ No If yes, give location _____

This information provided by Navy

8. Planning for resident children with elevated blood lead levels

a. Who would respond for the owner if a resident child with an elevated blood lead level is identified?

US Navy

b. Is there a plan to relocate such children?

_____ Yes _____ No If yes, where? ?

c. Does the owner know if there ever has been a resident child with an elevated blood lead level?

_____ Yes _____ No _____ Unknown ?

This Informat provided by Federal Bureau of Prison

9. Owner Inspections

a. Are there periodic inspections of all dwellings by the owner? 9a. yes

✓ Yes _____ No If yes, how often? _____

b. Is the paint condition assessed during these inspections? 9b. yes

✓ Yes _____ No

10. Have any of the dwellings ever received a housing code violation notice? 10. No

_____ Yes ✓ No _____ Unknown

If yes, describe code violation_____

11. If previously detected, unabated lead-based paint exists in the dwelling, have the residents been informed?

_____ Yes _____ No _____ Not Applicable 11. yes.

ANALYTICAL RESULTS

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Labra Street #1004, 2nd. Floor
R. H. Todd Avenue
Santurce, P. R. 00907
Ph. (787) 722-0220
Fax (787) 724-5788

ELPAT	102702
PAT	102702
ELAP	11583
NVLAP	200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03379

Date Collected: 4/2/00
Date Received: 4/4/00
Date Analyzed: 4/6/00
Page: 1 of 1
Sample Type: Paint Chips

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
P-440-01	81702	Dining Room, Wall A (2" X 2")	lead	0.492	mg/cm^2	0.009	**
P-440-02	81703	Living Room, Wall B (2" X 2")	lead	0.438	mg/cm^2	0.009	**
P-444-01	81704	Room No. 1, (Conf.) Wall C (2" X 2")	lead	0.366	mg/cm^2	0.009	**
P-444-02	81705	Room No. 3 (Det) Wall C (2" X 2")	lead	0.002	mg/cm^2	0.0009	**
P-448A-01	81706	Kitchen, Wall D (2" X 2")	lead	0.480	mg/cm^2	0.009	**
P-448A-02	81707	Living Room, Wall B (2" X 2")	lead	0.186	mg/cm^2	0.009	**
P-448A-03	81708	Den, Wall B (2" X 2")	lead	0.396	mg/cm^2	0.009	**

*RQL - Reportable Quantitation Limits
**Analytical Method: "EPA Standard Operating Procedures for Lead in Paint by Hotplate or Microwave Based Acid Digestion and Atomic Absorption or Inductively Coupled Plasma Emission Spectroscopy", September, 1991.

APPROVED BY : _____ DATE: 4/6/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : Miriam Estrada DATE: 4/06/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
Miriam Estrada Rodriguez
Lic. #1074
QUIMICO LICENCIADO

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ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03378

Date Collected: 4/2/00
Date Received: 4/4/00
Date Analyzed: 4/6/00
Page: 1 of 2
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
D-440-01	81664	Living Room, Floor	lead	61.1	ug/sq.ft.	8.00	7082**
D-440-02	81665	Living Room, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-440-03	81666	Kitchen, Floor	lead	194	ug/sq.ft.	8.00	7082**
D-440-04	81667	Kitchen, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-440-05	81668	Room No. 2, Floor	lead	145	ug/sq.ft.	8.00	7082**
D-440-06	81669	Room No. 2, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-440-07	81670	Room No. 3, Floor	lead	88.1	ug/sq.ft.	8.00	7082**
D-440-08	81671	Room No. 3, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-440-09	81672	Front Entrance, Floor	lead	52.4	ug/sq.ft.	8.00	7082**
D-440-10	81673	Back Porch Entrance, Floor	lead	76.3	ug/sq.ft.	8.00	7082**
D-440-11	81674	Control, Floor	lead	<8.00	ug/sq.ft.	8.00	7082**
D-444-01	81675	Living Room, Floor	lead	1570	ug/sq.ft.	80.0	7082**
D-444-02	81676	Living Room, Interior Window Sill	lead	944	ug/sq.ft.	64.8	7082**
D-444-03	81677	Kitchen, Floor	lead	323	ug/sq.ft.	8.00	7082**
D-444-04	81678	Kitchen, Interior Window Sill	lead	401	ug/sq.ft.	64.8	7082**
D-444-05	81679	Room No. 1, Floor	lead	314	ug/sq.ft.	8.00	7082**
D-444-06	81680	Room No. 1, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-444-07	81681	Room No. 3, Floor	lead	2280	ug/sq.ft.	80.0	7082**
D-444-08	81682	Room No. 3, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-444-09	81683	Front Entrance, Floor	lead	432	ug/sq.ft.	8.00	7082**
D-444-10	81684	Porch Entrance, Floor	lead	478	ug/sq.ft.	8.00	7082**
D-444-11	81685	Porch, Exterior Window Sill	lead	1120	ug/sq.ft.	64.8	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : _____ DATE: 4/6/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : _____ DATE: 4/6/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
Miriam Estrada Rodriguez
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ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03378

Date Collected: 4/2/00
Date Received: 4/4/00
Date Analyzed: 4/6/00
Page: 2 of 2
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
D-444-12	81686	Den 1st. Floor	lead	469	ug/sq.ft.	8.00	7082**
D-444-13	81687	Den 1st. Floor, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-444-14	81688	Foyer 2nd. Floor	lead	422	ug/sq.ft.	8.00	7082**
D-444-15	81689	Control Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-448A-1	81690	Den, Floor	lead	<8.00	ug/sq.ft.	8.00	7082**
D-448A-2	81691	Den, Interior Window Sill	lead	334	ug/sq.ft.	64.8	7082**
D-448A-3	81692	Kitchen, Floor	lead	<8.00	ug/sq.ft.	8.00	7082**
D-448A-4	81693	Kitchen, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-448A-5	81694	Room 2, Floor	lead	54.8	ug/sq.ft.	8.00	7082**
D-448A-6	81695	Room 2, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-448A-7	81696	Porch Entrance, Front A, Floor	lead	64.2	ug/sq.ft.	8.00	7082**
D-448A-8	81697	Porch Entrance, Front A, Interior Window Sill	lead	122	ug/sq.ft.	64.8	7082**
D-448A-9	81698	Living Room, Floor	lead	<8.00	ug/sq.ft.	8.00	7082**
D-448A-10	81699	Living Room, Interior Window Sill	lead	<64.8	ug/sq.ft.	64.8	7082**
D-448A-11	81700	Hallway, Floor	lead	799	ug/sq.ft.	8.00	7082**
D-448A-12	81701	Control Floor	lead	<8.00	ug/sq.ft.	8.00	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : DATE: 4/6/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : DATE: 4/6/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO :

Estado Libre Asociado de P.R.
Miriam Estrada Rodriguez
Lic. #1074
QUIMICO

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
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Ph. (787) 722-0220
Fax (787) 724-5788

ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03387

Date Collected: 4/9/00
Date Received: 4/10/00
Date Analyzed: 4/11/00
Page: 1 of 1
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
D-448B-01	81764	Living Room, Floor, carpet	lead	43.6	ug/sq.ft.	8.00	7082**
D-448B-02	81765	Living Room, Interior Window Sill	lead	211	ug/sq.ft.	64.8	7082**
D-448B-03	81766	Kitchen, Floor	lead	29.0	ug/sq.ft.	8.00	7082**
D-448B-04	81767	Kitchen, Interior Window Sill	lead	15.2	ug/sq.ft.	8.00	7082**
D-448B-05	81768	Room No. 1, Floor	lead	38.7	ug/sq.ft.	8.00	7082**
D-448B-06	81769	Room No. 1, Interior Window Sill	lead	175	ug/sq.ft.	64.8	7082**
D-448B-07	81770	Room No. 2, Floor	lead	25.7	ug/sq.ft.	8.00	7082**
D-448B-08	81771	Room No. 2, Interior Window Sill	lead	163	ug/sq.ft.	64.8	7082**
D-448B-09	81772	Den, Floor	lead	12.0	ug/sq.ft.	8.00	7082**
D-448B-10	81773	Den, Interior Window Sill	lead	111	ug/sq.ft.	64.8	7082**
D-448B-11	81774	Control, Floor	lead	<8.00	ug/sq.ft.	8.00	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : _____ DATE: 4/11/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : _____ DATE: 4/11/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

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ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03387

Date Collected: 4/9/00
Date Received: 4/10/00
Date Analyzed: 4/11/00
Page: 1 of 1
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
ED-440-01	81775	Exterior Front Entrance Side A	lead	138	ug/sq.ft.	8.00	7082**
ED-440-02	81776	Exterior Back Entrance Side C	lead	260	ug/sq.ft.	8.00	7082**
ED-440-03	81777	Exterior Side Entrance Side B	lead	17.7	ug/sq.ft.	8.00	7082**
ED-444-04	81778	Exterior Front Entrance Side A	lead	620	ug/sq.ft.	8.00	7082**
ED-444-05	81779	Exterior Back Entrance Side C	lead	450	ug/sq.ft.	8.00	7082**
ED-444-06	81780	Exterior Side Entrance Side B	lead	595	ug/sq.ft.	8.00	7082**
ED-445A-07	81781	Exterior Front Entrance Side A	lead	20.3	ug/sq.ft.	8.00	7082**
ED-445A-08	81782	Exterior Back Entrance Side C	lead	92.0	ug/sq.ft.	8.00	7082**
ED-445B-09	81783	Interior 2nd. Floor Stairway Foyer Side A	lead	8.1	ug/sq.ft.	8.00	7082**
ED-445B-10	81784	Interior 1st. Floor Stairway Foyer Side B	lead	17.9	ug/sq.ft.	8.00	7082**
ED-446A-11	81785	Exterior Front Entrance Side A	lead	17.4	ug/sq.ft.	8.00	7082**
ED-446B-12	81786	Interior 1st. Floor Stairway Foyer Side B	lead	21.0	ug/sq.ft.	8.00	7082**
ED-446B-13	81787	Interior 2nd. Floor Stairway Foyer Side A	lead	14.2	ug/sq.ft.	8.00	7082**
ED-447A-14	81788	Exterior Front Entrance Side A	lead	26.1	ug/sq.ft.	8.00	7082**
ED-447A-15	81789	Exterior Back Entrance Side B	lead	27.3	ug/sq.ft.	8.00	7082**
ED-447B-16	81790	Interior Front 1st. Floor Stairway Foyer Side	lead	29.0	ug/sq.ft.	8.00	7082**
ED-447B-17	81791	Interior 2nd. Floor Stairway Foyer Side A	lead	24.4	ug/sq.ft.	8.00	7082**
ED-447B-18	81792	Exterior 2nd. Floor Wood Deck Entrance Sid	lead	20.7	ug/sq.ft.	8.00	7082**
ED-447B-19	81793	Exterior 1st. Fl. Deck Stairway Entrance Sid	lead	16.4	ug/sq.ft.	8.00	7082**
ED-448A-20	81794	Exterior Front Entrance Side A	lead	114	ug/sq.ft.	8.00	7082**
ED-448A-21	81795	Interior Side Entrance Side D	lead	63.3	ug/sq.ft.	8.00	7082**
ED-448B-22	81796	Interior 1st. Floor Stairway Foyer Side A	lead	216	ug/sq.ft.	8.00	7082**
ED-448B-23	81797	Interior 2nd. Floor Stairway Foyer Side A	lead	29.8	ug/sq.ft.	8.00	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : _____ DATE: 4/11/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : _____ DATE: 4/11/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. # 1074
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ELPAT	102702
PAT	102702
ELAP	11583
NVLAP	200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03387

Date Collected 4/9/00
Date Received 4/10/00
Date Analyzed 4/11/00
Page: 3 of 3
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	Recovery %	Method
ED-400C-24	81798	Control, 1st. Floor 400C	lead	0.0874	wt %	93.5%	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : _____ DATE: 4/11/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : _____ DATE: 4/11/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
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Calle Labra #1004, 2nd. Floor, Ave. W.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atop 7½ Site
Site Location:
Samplers Name: Miguel Olivera
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Po. wipes							Remarks
81775	ED.440.01	Ext. Front Entrance Side A	4/9/00			✓		N/A	1	✓							
81776	ED.440.02	Ext. Back Entrance Side C	↓			✓		↓	1	✓							
81777	ED.440.03	Ext Side Entrance Side B				✓			1	✓							
81778	ED.444.04	Ext. Front Entrance Side A				✓			1	✓							
81779	ED.444.05	Ext. Back Entrance Side C				✓			1	✓							
81780	ED.444.06	Ext. Side Entrance Side B				✓			1	✓							
81781	ED.445A.07	Ext. Front Entrance Side A				✓			1	✓							
81782	ED.445A.08	Ext Back Entrance Side C				✓			1	✓							
81783	ED.445B.09	Int 2nd Fl Stairway Foyer Side A	↓			✓		↓	1	✓							

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A. Olivera	Date/Time	10 Apr 00 1200 MCS	Delivered Directly to Lab:	[ ] Shipped: [ ]
Received By:	Sam J. Auta	Date/Time	4/10/00 12:30 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

— Dallas Environmental
— Shop 7 1/2 Site — Project Name — US Navy
— Miguel A Oliveras

Shop 7 1/2 Site

EXTERIOR ENTRAPPED DUST

9 Apr 00

ED 440 . 01	Ext Front Entrance	Side A	
ED. 440. 02	Ext Back Entrance	Side C	
ED. 440. 03	Ext Side Entrance	Side B	
ED. 444. 04	Ext Front entrance	Side A	
ED 444 . 05	Ext Back Entrance	Side C	
ED . 444. 06	Ext Side entrance	Side B	
ED 445A 07	Ext Front entrance	Side A	445A
ED. 445A 08	Ext Back entrance	Side C	445A
ED . 445B 09	Int 2nd Fl Stairway Foyer	Side A	445B
ED. 445B . 10	Int 1st Fl Stairway Foyer	Side B	445B
ED . 446A . 11	Ext Front entrance	Side A	446A
ED . 446B . 12	Int 1st Fl Stairway Foyer	Side B	446B
ED . 446 B . 13	Int 2nd Fl Stairway Foyer	Side A	446B
ED . 447 A . 14	Ext Front entrance	Side A	447A
ED. 447 B ~~15~~ 18	Ext 2nd Fl. wood Deck ent	Side B	447A
ED . 447 B . ~~16~~ 19	Ext 1st Fl. Deck Stwy ent	Side B	447A
ED. 447 A . 15	Ext Back Entrance	Side B	447A
ED . 447 B . 16	Int Front 1st Fl Stairway Foyer	Side B	447B
ED. 447 B . 17	Int 2nd Fl. Stairway Foyer	Side A	447B
ED. 448 A . 20	Ext Front entrance	Side A	448A
ED 448 A . 21	Int ~~Porch~~ Side Entrance	Side D	448A
ED. 448 B . 22	Int 1st Fl. Stwy Foyer	Side A	448B
ED. 448 B . 23	Int 2nd Fl Stwy Foyer	Side A	448B
ED. 400 C . 24	Control 1st Fl.		400C

All wipe samples measured 12"x12"

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. R.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy - Stop 7½ Site
Site Location:
Samplers Name: Miguel Olivieras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb Wipes								Remarks
81 793	ED.447B.19	Ext 1st Fl. Deck Stay Entance Side B	4/9/00			✓		N/A	1	✓								
81 794	ED.448A.20	Ext. Front Entance Side A				✓			1	✓								
81 795	ED.448A.21	Int Side Entance Side D				✓			1	✓								
81 796	ED.448B.22	Int 1st Fl. Stairway Fans Side A				✓			1	✓								
81 797	ED.448B.23	Int 2nd Fl Stairway Fans Side A				✓			1	✓								
81 798	ED.400C.24	Central 1st Fl. 400C				✓			1	✓								

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A. Olivieras	Date/Time	10 Apr 00 1200 hrs	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Nancy Ortiz	Date/Time	4-10-00 12:20 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Calle Labra #1004, 2nd. Floor, Ave. r .d, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atop 7½ site
Site Location:
Samplers Name: Miguel Oliveras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Po wipes							Remarks
75	ED.440.01	Ext. front Entrance Side A	4/9/00			✓		N/A	1	✓							
76	ED.440.02	Ext. Back Entrance Side C	↓			✓		↓	1	✓							
77	ED.440.03	Ext Side Entrance Side B				✓			1	✓							
78	ED.444.04	Ext. front Entrance Side A				✓			1	✓							
79	ED.444.05	Ext. Back Entrance Side C				✓			1	✓							
80	ED.444.06	Ext. side Entrance Side B				✓			1	✓							
81	ED.445A.07	Ext. front Entrance Side A				✓			1	✓							
82	ED.445A.08	Ext Back Entrance Side C				✓			1	✓							
83	ED.445B.09	Int 2nd Fl Stairway Foyer Side A	↓			✓		↓	1	✓							

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A. Oliveras	Date/Time	10 Apr 00 1200	Delivered Directly to Lab:	[ ] Shipped: [ ]
Received By:	Juan J. Ruta	Date/Time	4/10/00 12:30 pm	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. A.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atop 7½
Site Location:
Samplers Name: Miguel Olivera
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb wipes							Remarks
81 784	ED. 445 B. 10	Int. 1st Fl. Stairway Foyer Side B	4/9/00			/		N/A	1	/							
81 785	ED. 446A. 11	Ext. Front Entrance Side A				/			1	/							
81 786	E.D. 446B. 12	Int 1st Fl Stairway Foyer Side B				/			1	/							
81 787	ED 446B. 13	Int 2nd Fl Stairway Foyer Side A				/			1	/							
81 788	ED. 447A. 14	Ext Front Entrance Side A				/			1	/							
81 789	ED. 447A. 15	Ext Back Entrance Side B				/			1	/							
81 790	ED. 447B. 16	Int. Front 1st Front Stairway Foyer Side B				/			1	/							
81 791	ED. 447B. 17	Int. 2nd Fl Stairway Foyer Side A				/			1	/							
81 792	ED. 447B. 18	Ext. 2nd Fl. Wood Deck Entrance Side B				/			1	/							

Turnaround Time: Normal: [ ] Rush: [/]

Comments:

Relinquished By:	Miguel A Olivera	Date/Time	4/9/00 1200 hrs	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Kane G. [illegible]	Date/Time	4/10/00 12:030	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Labra Street #1004, 2nd. Floor
R. H. Todd Avenue
Santurce, P. R. 00907
Ph. (787) 722-0220
Fax (787) 724-5788

ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

		Date Collected:	4/2/00
Client :	Baker Environmental	Date Received:	4/4/00
	420 Ruser Rd., Corapolis, PA 15108	Date Analyzed:	4/6/00
Project :	US Navy	Page: 1 of 1	
Lab Project # :	PRC03380	Sample Type:	SOIL

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
S-440-01	81709	Building Perimeter	lead	229	mg/Kg	12.9	3050/7420
S-444-01	81710	Building Perimeter	lead	2190	mg/Kg	209	3050/7420
S-445-01	81711	Building Perimeter	lead	736	mg/Kg	113	3050/7420
S-446-01	81712	Building Perimeter	lead	195	mg/Kg	13.0	3050/7420
S-447-01	81713	Building Perimeter	lead	726	mg/Kg	131	3050/7420
S-448-01	81714	Building Perimeter	lead	225	mg/Kg	15.9	3050/7420
S-SW-01	81715	Building Perimeter	lead	792	mg/Kg	130	3050/7420
S-VB-01	81716	Building Perimeter	lead	287	mg/Kg	12.7	3050/7420
Equipment Blank	81717	Equipment Blank	lead	<0.06	mg/L	0.06	3010A/7420

*RQL - Reportable Quantitation Limits

APPROVED BY : Ady P. DATE: 4/7/00
Ady Padan, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : Miriam Estrada DATE: 4/07/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO :

Estado Libre Asociado de P.R.
Miriam Estrada Rodriguez
Lic. #1074
QUIMICO LICENCIADO

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Labra Street #1004, 2nd. Floor
R. H. Todd Avenue
Santurce, P. R. 00907
Ph. (787) 722-0220
Fax (787) 724-5788

ELPAT 102702
PAT 102702
ELAP 11583
NVLAP 200051-0

ANALYTICAL REPORT

Client : Baker Environmental
420 Ruser Rd., Corapolis, PA 15108
Project : US Navy
Lab Project # : PRC03391

Date Collected: 4/9/00
Date Received: 4/13/00
Date Analyzed: 4/14/00
Page: 1 of 1
Sample Type: WIPE

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Unit	RQL	Method
D-440-11	81821	Control, Floor	lead	104	ug/sq.ft.	8.00	7082**
D-444-15	81822	Control Interior, Window Sill	lead	446	ug/sq.ft.	8.00	7082**
D-448A-12	81823	Control , Floor	lead	1350	ug/sq.ft.	80.0	7082**

*RQL - Reportable Quantitation Limits
**Modified NIOSH 7082 Method.

APPROVED BY : _____ DATE: 4/14/2000
Ady Padán, PhD., Technical Director
José E. Maysonet, Technical Manager

REVIEWED BY : _____ DATE: 4/14/00
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
QUIMICO LICENCIADO

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. J.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy
Site Location:
Samplers Name: Miguel I Oliveras
Company: Environmental X Change

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED PB							Remarks
81821	D-440-11	Control, Floor	4/9/00			✓		N/A	1	✓							
81822	D-444-15	Control Interior Window Sill	4/9/00			✓		↓	1	✓							
81823	D-448A-12	Control, Floor	4/9/00			✓		↓	1	✓							

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A Oliveras	Date/Time	13 Apr 00 0700 hrs	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Karen y. Aarts	Date/Time	4/13/00 7:00 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

BUILDING 440

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 440

A lead-based paint inspection and risk assessment was conducted at Building 440, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

This building is unoccupied, abandoned, poorly maintained and has many missing building components, such as windows and doors. For the exact missing components and their locations, see Form 5.1 (Building Condition Form) and the building layout diagram for this building. This building is accessible to Naval Reservation families. These families are the spouses and teenage children of the current residents, which are Bureau of Prison (BOP) administration personnel. This building is the nearest to the community volleyball court which residents frequently use. Even though the building is abandoned, the building still has energy power and residents store food and drink in the refrigerator to keep beverages cold while playing in the immediate yard.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 285 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Twenty-two (22) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. In addition to the XRF readings, two paint chip samples were collected and analyzed to confirm the lead concentration of selected paints. The two paint chip analyzes confirmed the walls in the dining room and living room were negative for elevated lead concentrations. According to the EPA, LBP is defined as paint containing a lead concentration greater the 0.5 percent lead by weight. The results of the XRF and the bulk paint chip analyses are summarized by building component in the following pages. The final laboratory reports for the bulk paint chip samples are provided in this report and are summarized in Table 3-2.

The presence of lead-based paint was found in Building 440. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

1. Kitchen Ceramic Tiles
2. Kitchen Ceramic Baseboard
3. Kitchen Walls
4. Kitchen Closet Walls
5. Kitchen Closet Shelves
6. Laundry Room Walls
7. Den Bathroom Walls
8. Porch Corner Column
9. Room No. 1 Walls
10. Room No. 1 & 2 Porch Walls
11. Room No. 2 Walls
12. Hallway Walls
13. Bathroom for Rooms No. 1,2, & 3 Ceramic Tiles

14. Bathroom for Rooms No. 1,2, & 3 Tub
15. Room No. 3 Walls
16. Second Floor Foyer Walls
17. Room No. 4 Porch Walls
18. Room No. 4 Porch Door
19. Room No. 4 Bathroom Ceramic Tiles
20. Room No. 4 Bathroom Tub
21. Room No. 4 Closet Shelves
22. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. To evaluate areas of dust within the housing unit, fourteen (14) wipe samples were collected, including ten interior wipes, three entrance wipes, and one control wipe sample. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. Eight (8) of the wipe samples (six interior wipes and two entrance wipes) were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. The soil sample was reported to contain a low lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint and leaded dust in the kitchen
2. Deteriorated lead-based paint and leaded dust on porch
3. Deteriorated lead-based paint and leaded dust in room no. 1
4. Deteriorated lead-based paint and leaded dust in room no. 2
5. Deteriorated lead-based paint and leaded dust in room no. 3
6. Leaded dust in the living room
7. Deteriorated exterior walls
8. Leaded dust in building front and back entrances

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in severe condition. The paint deterioration is house-wide, and there are many building components that contain lead-based paint. The majority of the painted items are deteriorated due to impact, moisture, and water due to the many missing building components, namely windows and doors. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Immediate action should be taken to block all building entrances and thus avoid access to the building's interior by unauthorized personnel.
3. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust in the building's interior.
4. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
5. Soil lead level is below 400 mg/kg in the surrounding bare soil of the dripline of the housing unit. This value is below HUD/EPA/DOD interim levels for high contact areas and below the 2,000 mg/kg for areas children are not likely to contact. Although not required, it is recommended that interim control measures be provided, namely covering the bare soil with grass.
6. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
7. Emphasis should be placed in the hazards described above, especially the exterior walls because of their high lead content, poor condition, and high dust samples in both front and back building entrances.
8. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
9. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished. If the building were going to be used for family housing again, then removal would be the greatest deterrent of possible liability issues arising in the near future.
10. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
11. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
12. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

LEAD HAZARD CONTROL OPTIONS

1. The name of the individual (s) in charge of the lead based hazard control program is/are: _____, _____
2. Recommended changes to work order system and property management: (Items from number 2-7 of this section) The work order system of the BOP is activated by resident comments and requests, they do not actively have a program that addresses lead based paint and it's hazards. We recommend that before any work is performed on any painted surface, they verify in the report if this building component has lead based paint. If it does not, then proceed with the work. If it does then the work should be performed by personnel trained in lead based paint work, even if it is routine maintenance work. Work order forms shall be custom made to include a space where the person who verifies the presence or not of lead based paint signs confirming the research. A space will also be provided so the person who performs the work will acknowledge that his work was confined to those areas where there was no lead based paint.
3. If at any time work is performed by a qualified individual or firm, it is important to verify worker training and medical qualifications verification. Also the firms and individuals performing this work shall be registered with the PREQB Lead Program if abatement is to be performed. Please verify the PREQB rules included in this report.
4. Before any work is performed at this building the work areas will be sealed off so that the leaded dust does not enter any living areas. Any furniture present should be moved or covered with plastic.
5. If at ant time abatement is performed then clearance samples are required prior to reoccupy the housing unit. Other air monitoring requirements apply to workers, please verify the OSHA section of this report for additional information.
6. Ceramic floor and wall tiles, sinks, toilets and bathtubs are not considered a lead hazard, although they have high lead content. The only concern would be if the building is going to be demolished, then PREQB requires their removal prior to demolition. An exception may be if you are if you are going to sample and analyze the demolition debris by a TCLP sample prior to disposal. (A TCLP is a sample that characterises the materials for possible hazardous characteristics)
7. Both the residents and maintenance personnel should attend a general awareness class in lead based paint hazards. This class offers information on the use of HEPA vacuum cleaners, personal protective clothing, respirator use, medical surveillance and other lead related issues. Baker Environmental can assist in these classes.
8. The practice of examining the paint condition annually or upon vacancy is performed by the BOP, it should be continued.
9. Interim Control Options and Estimated Costs: (Items 9-17) The costs below include labor, materials, worker protection, site containment and cleanup.

Building 400

These are only rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead based paint abatement contractor. Baker Environmental will be pleased to perform clearance testing after the work has been completed at your request.

10. To better calculate the amounts of linear feet, square feet, individual doors, frames, shelves or others; please refer to the approximate quantities information available in the sampling data sheet of this building report. Once you have these quantities then multiply by the unit prices that follow. (Example: Removal of lead based paint in all exterior building walls. Sample data sheet has a quantity of approximately 5,000 square feet @ $12.00 per square foot of removal = $60,000.00 for the removal of the exterior lead based paint of Building 440)
11. Lead Based Paint Removal (Mechanical or Chemical) $ 12.00 ft2
12. Lead Based Paint Encapsulation $ 6.00 ft2
13. Door Removal $175.00 ea
14. Door Frame Removal $ 85.00 ea
15. Ceramic Tile Removal $ 15.00 ft2
16. Shelf & Base Removal $ 55.00 ea
17. Baseboard Removal $ 10.00 lin ft
18. Reevaluation and Monitoring Schedule: Any of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead hazards do not appear. Keep in mind that encapsulation can only be considered permanent abatement if the encapsulant manufacturer and the "installer" can guarantee the product and it's application for twenty years. If this is not established then you have only an interim control which may be less expensive in the short run but more expensive than removal in the long run due to continuous reevaluation and monitoring. Removal methods need no reevaluation or additional monitoring. The owner should monitor the condition of the paint annually. A professional reevaluation is also needed. The standard schedule for reevaluating the dwelling is shown below.

Unadjusted Standard Reevaluation Schedules Recommended By HUD

Hazard Control Method	Standard Reevaluation Schedule[1]	Type of Reevaluation
Dust Removal	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Paint Film Stabilization	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Encapsulation	1 month, 6 months; annually thereafter	Visual Examination of Encapsulant Integrity
Enclosure	Annually	Visual Examination
Removal of All Lead-Based Paint	None	None
Building Component Replacement	None	None

[1] Taken from Table 6.1 of the HUD *Guidelines*.

Building 400

Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program: When the US Navy decides the control options to put in place they will be incorporated into the evaluation report. When this is completed then it will be necessary to meet with anybody residing in the housing unit and explain this report to him/her. This is the time also to make formal delivery the EPA lead pamphlet which is part of this evaluation report. Once these have been done, then signatures of the risk assessor and the US Navy are required.

Signatures:

_____ _____

Department of the Navy Authorized Representative Date

_____ _____

Miguel A. Oliveras - Certified Inspector/Risk Assessor Date

When all the selected hazard control options have been completed then a Certificate of Lead Based Paint Compliance will be issued stating that "Either no lead based paint hazards were identified or all lead based paint hazards have been corrected.

Building 400

BUILDING DATA

Building 440

Form 5.1
Building Condition Form

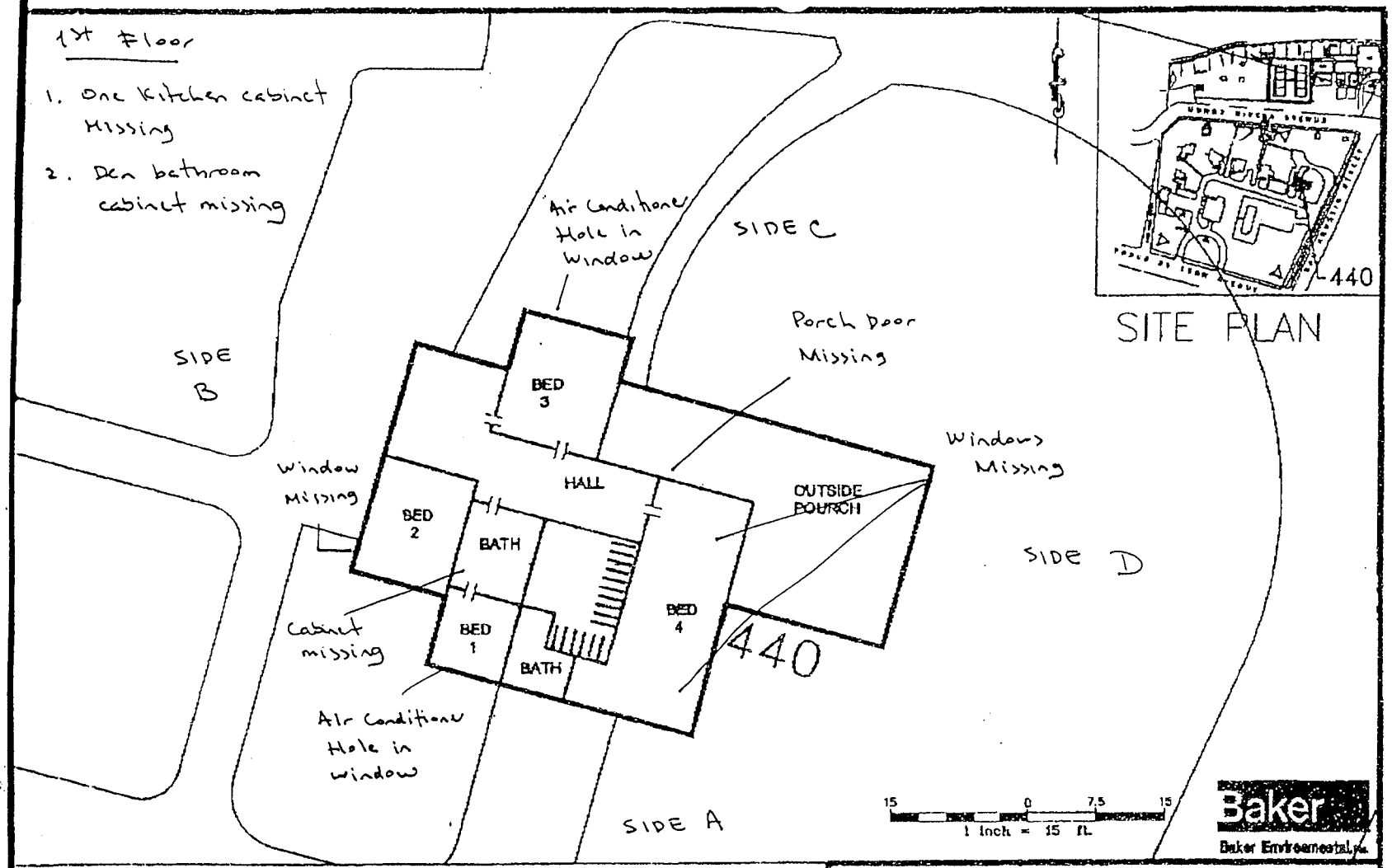
Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks		X
Gutters or downspouts broken	X	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		N/A
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		X
Exterior siding has missing boards or shingles		N/A
Water stains on interior walls or ceilings	X	
Plaster walls or ceilings deteriorated	X	
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structure leans, or visibly unsound		X
* Total number	4	5

* If the "Yes" column has two or more checks, the dwelling is usually considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen.

Notes:

1st Floor

1. One Kitchen cabinet Missing
2. Den bathroom cabinet missing



SITE PLAN

Missing Building components
April 2000
Miguel A. Oliveras

STOP 7-1/2 BUILDING 440B
RESIDENT BUILDING
SECOND FLOOR

SANJUAN, PUERTO RICO

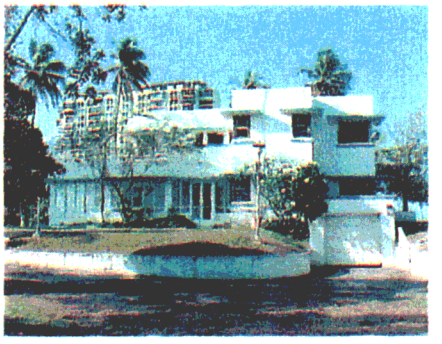
#247049 K:\47470\00 PHASE\GRAPHICS\CAD

U. S. Navy Building 440

Photograph #1

Photograph #2

Photograph #3



Photograph #4

Photograph #5

Photograph #6

U. S. Navy Building 440

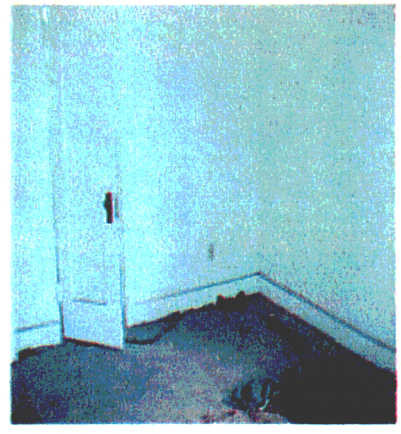
Photograph #7

Photograph #8

Photograph #9

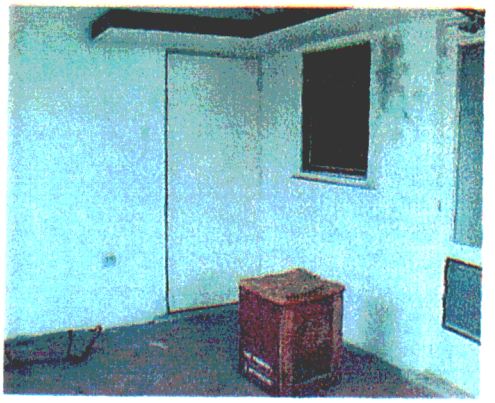
Photograph #10

Photograph #11

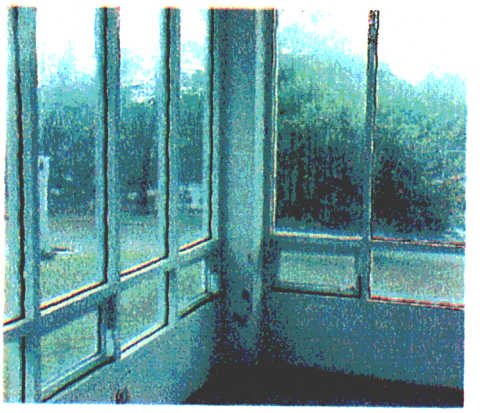


Photograph #12

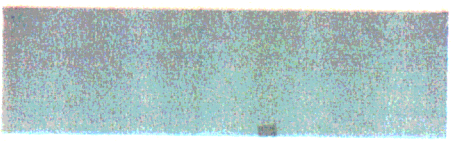
U. S. Navy Building 440



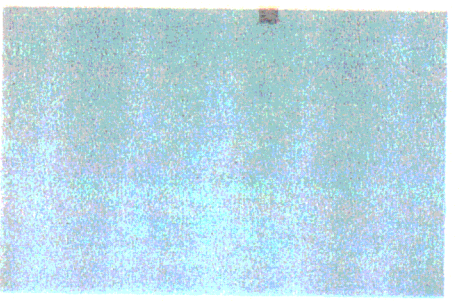
Photograph #13



Photograph #14



Photograph #15



Photograph #16

PC = paint condition
DT = deterioration type
QTY = Quantity
Lf = linear feet
ft = square feet

I = [illegible]ct
F = fair
P = poor
FRI = friction
IMP = Impact
MoI = Moistur[illegible]

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

400

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 30, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUBSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-698	Calibration Test						440	pos.		
PB-699	Calibration Test						440	pos.		
PB-700	Calibration Test						440	pos.		
PB-719	Dinning room wall	130 ft	white	A	Concrete	1st. floor	440	pos.	~~F~~	~~IMP~~
PB-723	Dinning room (confirmation)		white	A	Concrete	1st. floor	440	pos.		
PB-734	Kitchen den ceramic tile 4x4		yellow	A	Concrete	1st. floor	440	pos.		
PB-736	Kitchen den ceramic baseboard		brown	A	Concrete	1st. floor	440	pos.		
PB-737	Kitchen den ceramic tile		dark yellow	A	Concrete	1st. floor	440	pos.		
PB-740	Kitchen wall	40 FT	bone white	A	Concrete	1st. floor	440	pos.	F	IMP
PB-742	Kitchen wall	100 FT	white	C	Concrete	1st. floor	440	pos.	I	
PB-743	Kitchen wall	80 FT	bone white	D	Concrete	1st. floor	440	pos.	F	IMP
PB-744	Kitchen wall (confirmation)		bone white	A	Concrete	1st. floor	440	pos.		
PB-745	Kitchen wall (confirmation)		white	C	Concrete	1st. floor	440	pos.		
PB-746	Kitchen wall		white	D	Concrete	1st. floor	440	pos.		
PB-747	Kitchen wall	40 FT	bone white	B	Concrete	1st. floor	440	pos.	F	IMP
PB-748	Kitchen closet wall	30 FT	white	A	Concrete	1st. floor	440	pos.	I	
PB-749	Kitchen closet wall	30 FT	white	B	Concrete	1st. floor	440	pos.	I	
PB-751	Kitchen closet wall	30 FT	white	D	Concrete	1st. floor	440	pos.	I	
PB-753	Kitchen closet shelf # 1	5 ea.	white	A	Wood	1st. floor	440	pos.	F	IMP
PB-762	Laundry wall	90 FT	white	C	Concrete	1st. floor	440	pos.	I	
PB-763	Laundry wall (confirmation)		white	C	Concrete	1st. floor	440	pos.		
PB-775	Den bathroom wall	60 FT	white	A	Concrete	1st. floor	440	pos.	F	IMP

Negative due to chip sample P-440-0

BAKER EN')NMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

400

PC = paint condition
DT = deterioration type
QTY = Quantity
Lf = linear feet
ft = square feet

I: intact
F: fair
P = poor
FRI: friction
IMP = Impact
MOI: moisture

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN-01	Date: March 30, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-777	Den bathroom wall		white	C	Concrete	1st. floor	440	pos.		
PB-778	Den bathroom wall	40 FT	white	D	Concrete	1st. floor	440	pos.	F	IMP
PB-780	Den bathroom wall (confirmation)		white	B	Concrete	1st. floor	440	pos.		
PB-784	Living room wall	200 FT	white	B	Concrete	1st. floor	440	pos.	→	
PB-800	Porch corner column #1	15 FT	white	D	Concrete	1st. floor	440	pos.	P	SUB
PB-812	Room # 1 wall	130 FT	white	A	Concrete	2nd floor	440	pos.	F	IMP
PB-813	Room # 1 wall	110 FT	white	B	Concrete	2nd floor	440	pos.	I	
PB-814	Room # 1 wall	110 FT	white	C	Concrete	2nd floor	440	pos.	I	
PB-815	Room # 1 wall	110 FT	white	D	Concrete	2nd floor	440	pos.	I	
PB-834	Porch # 1	110 FT	white	C	Concrete	2nd floor	440	pos.	F	MOI
PB-835	Porch # 1	220 FT	white	D	Concrete	2nd floor	440	pos.	F	MOI
PB-843	Room # 2 wall	110 FT	green/yellow	A	Concrete	2nd floor	440	pos.	P	MOI
PB-844	Room # 2 wall	—	white	A	Concrete	2nd floor	440	pos.	P	MOI
PB-845	Room # 2 wall	120 FT	white	B	Concrete	2nd floor	440	pos.	P	MOI
PB-846	Room # 2 wall	120 FT	white	C	Concrete	2nd floor	440	pos.	P	MOI
PB-847	Room # 2 wall	120 FT	white	D	Concrete	2nd floor	440	pos.	F	MOI
PB-856	Calibration Test					2nd floor	440	pos.		
PB-857	Calibration Test					2nd floor	440	pos.		
PB-858	Calibration Test					2nd floor	440	pos.		
PB-866	Hallway wall	350 FT	white	C	Concrete	2nd floor	440	pos.	I	
PB-867	Hallway wall		white	A	Concrete	2nd floor	440	pos.	I	
PB-881	Bathroom ceramic wall tile		yellow	B	Concrete	2nd floor	440	pos.		
PB-882	Bathroom wall CT		dark yellow	B	Concrete	2nd floor	440	pos.		

Negative due To chip sample P-440.

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

KEY

PC = paint condition — I: intact

DT = deterioration type — F: fair

QTY: Quantity — P = poor

Lf : linear feet — FRI: friction

ft = square feet — IMP: Impact

MoI: Moisture

4/0 C

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN-01	Date: March 30, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-886	Bathroom tub		dark pink		Ceramic	2nd floor	440	pos.		
PB-887	Room # 3 wall	120 FT	white	A	Concrete	2nd floor	440	pos.	I	
PB-888	Room # 3 wall	130 FT	white	B	Concrete	2nd floor	440	pos.	F	MoI
PB-889	Room # 3 wall	120 FT	white	C	Concrete	2nd floor	440	pos.	F	MoI
PB-890	Room # 3 wall	130 FT	white	D	Concrete	2nd floor	440	pos.	F	MoI
PB-904	Foyer wall	20 FT	white	A	Concrete	2nd floor	440	pos.	I	
PB-906	Hallway wall included with 886-889		white	B	Concrete	2nd floor	440	pos.		
PB-909	Porch door #2 Head jamb	1 ea	white		Wood	2nd floor	440	pos.	P	MoI
PB-910	Porch #2 wall		white	A	Concrete	2nd floor	440	pos.	P	MoI
PB-911	Porch #2 wall		white	B	Concrete	2nd floor	440	pos.	P	MoI
PB-913	Porch #2 wall (confirmation)		white	C	Concrete	2nd floor	440	pos.	P	MoI
PB-927	Bathroom # 2 ceramic tile		yellow	A	Concrete	2nd floor	440	pos.	I	
PB-928	Bathroom # 2 ceramic tile		gray	A	Concrete	2nd floor	440	pos.	I	
PB-931	Bathroom # 2 tub		green	C	Concrete	2nd floor	440	pos.	I	
PB-940	Room # 4 closet shelf #3	5 ea	white	C	Wood	1st floor	440	pos.	I	
PB-951	Exterior wall	5000 FT	white	A	Concrete	1st floor	440	pos.	P	MoI
PB-952	Exterior wall		white	B	Concrete	1st floor	440	pos.	P	MoI
PB-953	Exterior wall		white	C	Concrete	1st floor	440	pos.	P	MoI
PB-954	Exterior wall		white	D	Concrete	1st floor	440	pos.	P	MoI
PB-959	Exterior level		white	B	Concrete	2nd floor	440	pos.	P	MoI
PB-960	Exterior wall		white	C	Concrete	2nd floor	440	pos.	P	MoI
PB-961	Exterior wall		white	D	Concrete	2nd floor	440	pos.	P	MoI

BAKER ENV ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

400

Client Name: Baker Environmental Company	Project Name: U.S Navy Stop 7 1/2 Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN-01	Date: March 30, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUBSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-962	~~Outside~~ wall Exterior	white	A	Concrete	2nd floor	440	pos.
PB-1117	Exterior wall garage	white	C	Concrete	garage	440	pos.
PB-1119	Entrance to garage over wall	white	C	Concrete	garage	440	pos.
PB-1124	Outside wall garage right side	white		Concrete	garage	440	pos.
PB-1125	Outside wall garage left side	white		Concrete	garage	440	pos.
PB-1126	Calibration test				garage	440	pos.
PB-1128	Calibration test				garage	440	pos.

included with exterior 5000 ft

Verified by [illegible] 15 Apr 00
MO

440

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT: US Navy	**PROJECT NAME** STOP 71/2 Naval Hos.
SAMPLING METHOD Niton Series 700 XRF	**JOB:** / **DATE:**

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~ SUB	LEVEL	BLDG.	POS. / NEG.
698	Calibration validation				1	440	P
699	" "				1	-	P
700	" "				1	-	P
701	Entry door casing	white	A	wood	-	-	N
702	Side jamb	white	A	wood	-	-	N
703	Header frame	white	A	wood	-	-	N
704	Entry door inside	white	A	wood	-	-	N
705	Ceramic tile 8x8 entry	tan	A	conc	-	-	N
706	Ceramic tile 8x8	cream	floor	conc	-	-	N
707	Raise step entry	cream	floor	conc	-	-	N
708	Entry wall left	white	A	conc		-	N
709	" "	white	B	conc	-	-	N
710	" "	white	C	conc	-	-	N
711	" "	white	D	conc	-	-	N

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
712	Entry closet inside door	white	C	wood	1	440	N
713	Shelve 1st hit side	white	C	wood	1	"	N
714	Inside closet wall	white	A	Concrete	1	"	N
715	" " "	"	B	"	1	"	N
716	" "	"	C	"	1	"	N
717	" "	white	D	"	1	"	N
718	Entry Base board	"		"	1	"	N
719	dining room wall	"	A	"	1	"	P 1.1
720	" "	"	B	"	1	"	N
721	" "	"	C	"	1	"	N
722	" "	"	D	"	1	"	N
723	dining room Confirmation	"	wall A	"	1	440	P 1
724	base board	"	B	"	1	440	N
725	Floor tile dining room	Cream		"	1	"	N

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
726	window frame	dark brown	C	Metal	1	440	N	
727	window rail	"	C	"	1	440	N	
728	Kitchen den wall	white	A	cement	1	440	N	
729	Kitchen den wall	"	B	wood	1		N	
730	" "	"	C	cement	1	440	N	
731	" "		D	"	1	"	N	
732	Kitchen den door	"		wood	1		N	
733	" " side (out)	"		wood	1	"	N	
~~734~~	" " Head jam	"		wood	1	"	N	
734	Ceramic tile 4x4	yellow	A	ceramic	1	"	P	9.2 1½ to down
735	Kitchen Head door jam	white		wood	1	"	N	
736	Ceramic tile baseboard	brown	A	ceramic	1	"	P	7.3
737	" "	dark yellow	A	"	1	"	P	3.5
738	" "	cream	C	"	1	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
739	Floor tile Kitchen	Terra-cota	Floor	Ceramic	1	440	N	
740	Kitchen wall	bone white	A	Concrete	1	440	P	2.5
741	" "	bone white	B	"	1	"	N	
742	" "	white	C	"	"	"	P	3.4
743	" "	"	D	"	"	"	P	2.0
744	Kitchen wall Continuation	bone white	A	"	"	"	P	3.0
745	" "	white	C	"	"	"	P	3.3
746	" "	"	D	"	"	"	P	3.1
747	" "	bone white	B	"	"	"	P	2.20
748	Kitchen Closet wall	white	A	"	1	440	P	1.5
749	" "	"	B	"	1	"	P	1.5
750	" "	"	C	"	"	"	N	
751	" "		D	"	1	440	P	1.6
752	Kitchen Closet ~~shelf~~ shelf base	"	C	wood	1	440	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
753	Kitchen Closet shelve 1	white	A	wood	1	440	P	7.9
754	Ceramic tile 4x4 wall	Cream	B	ceramic	1	440	N	
755	Laundry door	white		wood	1	440	N	
756	Laundry door Side jam	"		wood	1	440	N	
757	" " Head jam	"		wood	1	"	N	
758	Kitchen window Casing	dark brown	A	Metal	1	440	N	
759	" " " Wall	"	A	"	1	440	N	
760	Laundry wall	white	A	cement	1	"	N	
761	" "	"	B	"	"	"	N	
762	" "	"	C	"	"	"	P	14.0
763	" " Conn connection	"	C	"	"	"	P	18.0
764	Laundry wall	"	D	"	"	"	N	
765	Laundry shelve # 2	"	D	wood	"	"	N	
766	Outside Laundry door	"	B	"	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
767	Laundry door side jam	white	B	wood	1	440	N	
768	" "	white	B	"	1	"	N	
769	Laundry window case	dark brown	A	Metal	1	"	N	
770	den Next to dining wall	white	A	Concrete	1	440	N	
771	" "	"	B	"	1	440	N	
772	" "	"	C	"	1	"	N	
773	" "	"	D	"	1	"	N	
774	base board	"	A	wood	1	"	N	
775	den bathroom	"	A	Concrete	"	"	P	6.3
776	" "	"	B	"	"	"	N	
777	" "	"	C	"	"	"	P	5.8
778	" "	white	D	"			P	15
779	" "	dark cream	D	"	"	"	N	
780	" " construction		B	"	"	"	P	5.7

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
781	window case den #2	dark brown	B	Metal	1	440	N
782	den window #2 rail	"	B	"	1	"	N
783	Living room wall	white	A	~~[illegible]~~ concrete	1	"	N
784	" "	"	B	"	1	"	P
785	" "	"	C	"	1	"	N
786	" "	"	D	"	1	"	N
787	base board Living room	white	B	"	1	"	N
788	Living room wall Southwest	"	B	"	1	"	N
789	over Head base board	"	D	wood	1	"	N
790	Chair rail	"	D	"	1	"	Null
791	"	"	"	"	"	"	N
792	window case wall	dark brown	A	Metal	"	"	N
793	window rail #2	"	A	"	"	"	N
794	door inside	white	D	wood	"	"	N

1.1
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ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
795	door outside	white	D	wood	1	440	N
796	floor ceramic tile	Cream	floor	ceramic	1	"	N
797	Porch	white	A	concrete	"	"	N
798	"	"	B	"	"	"	N
799	"	"	C	"	"	"	N
800	" corner column	"	D	"	"	"	P 1.9
801	Porch window frame	"	C	Metal	"	"	N
802	ceramic tile floor Porch	Terra-cotta	floor	ceramic	"	"	N
803	enter closet right side	white	A	concrete	"	"	N
804	" "	"	B	"	"	"	N
805	" "	"	C	"	"	"	N
806	" "	"	D	"	"	"	N
807	shelve # 3	white	D	wood	"	"	N
808	enter closet door	"		wood	"	"	N

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
809	Enter close side jam	white		Metal	1	440	Neg	
810	" "	"		"	1	440	N	
811	Enter close Head jam	"		"	1	440	N	
812	room #1 wall		A	Concrete	2	"	P	1.2
813	" "	"	B	"	"	"	P	1.20
814	" "	"	C	"	"	"	P	7
815	" "	"	D	"	"	"	P	19
816	Base board	"	A	wood	"	"	N	
817	Room #1 Closet wall	"	A	Concrete	"	"	N	
818	" "	"	B	"	"	"	N	
819	" "	"	C	"	"	"	N	
820	" "	"	D	"	"	"	N	
821	Shelve closet #3	"	A	wood	"	"	N	
822	Shelve #1 closet	"	C	wood	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
823	door closet room #1	white		wood	2	440	N
824	door closet room #1 side jam	"		metal	2	440	N
825	" " " Head jam	"		"	"	"	N
826	window close #2	dark brown	A	"	"	"	N
827	" " " rail	"	A	"	"	"	N
828	door room #1 out side	white	B	wood	"	"	N
829	" " #2	white	B	wood	"	"	N
830	door room #2 side jam	"	B	"	"	"	N
831	door room #1 Head jam (Screen)	"	B	"	"	"	N
832	Porch #1	white	A	concrete	2	"	N
833	"	"	B	"	"	"	N
834	" "		C	"	"	"	P
835	" "		D	"	"	"	P
836	out side pole #4 panel # 1	"	B	Metal	"	"	N

5.2

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400

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
537	door outside Room # 2	white	A	wood	2	440	N	
538	door " " Room #2	"	A	"	"	"	N	
539	" " "	"	"	"	"	"	N	
540	door Side jam Room # 2	"	"	"	"	"	N	
541	door Head jam Room # 2		"	"	"	"	N	
542	~~Floor~~ 2 ceiling Color Area #1	gray	B	Concrete	"	"	N	
543	Room # 2	[illegible]	A	"	"	"	P	1.5
544	"	white	A	"	"	"	P	2.0
545	" "	"	B	"	"	"	P	2.0
546	" "	"	C	"	"	"	P	1.5
547	" "	"	D	"	"	"	P	2.1
548	Base board	"		wood	"	"	N	
549	Ceramic floor 8x8 tile	dark cream	floor	cream	"	"	N	
550	Room # 2 closet	white	A	Concrete	"	"	N	
551	" "		B				N	
552	" "	"	C	"	"	"	N	
553	" "	"	D	"	"	"	N	
554	shelve	white	A	wood	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
856	Calibration Validation						P	
857	" "						P	
858	" "						P	
859	door closet room #2	white	C	wood	2	440	N	
860	" " " sidejam	white		wood	"	"	N	
861	" " Head jam	"		"	"	"	N	
862	door to hallway room #2	"		"	"	"	N	
863	" " side jam	"		"	"	"	N	
864	" " Head jam	"		"	"	"	N	
865	Porch #1 floor	Terra cota		Ceramic	"	"	N	
866	Hall way	white	C	Concrete	"	"	P	1.90
867	" "	"	A	"	"	"	P	1.10
868	Base board Hall way	"	A	wood	"	"	N	
869	Bath room wall	white	A	concrete	"	"	N	

400

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
870	Bath room wall	white	B	Concrete	2	440	N	
871	" "	"	C	"	"	"	N	
872	" "	"	D	"	"	"	N	
873	closet bathroom wall	"	A	"	"	"	N	
874	" " "	"	B	"	"	"	N	
875	" "	"	C	"	"	"	N	
876	" " "	"	D	"	"	"	N	
877	bathroom closet Shelve #3	"		wood	"	"	N	
878	bathroom closet door	"		"	"	"	N	
879	" " sidejam	"	B	"	"	"	N	
880	" " Headjam	"	B	"	"	"	N	
881	Ceramic tile wall	yellow	B	Ceramic	"	"	P	14.0
882	" " "	darth yellow	B	"	"	"	P	6.5
883	floor Ceramic tile (bath room	multi color blue white cream	floor	"	"	"	N	

4"x4"

with size?

ceramic charcoal color 6"x2"

2"x2"

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
884	Toilet tank	Pink (dark		Ceramic	2	440	N	
885	" base	"		"	2	"	N	
886	tub bañera bath room	"		"	2	"	P	4.3
887	room # 3 wall	white	A	Concrete	2	"	P	2.6
888	" "	"	B	"	"	"	P	1.3
889	" "	"	C	"	"	"	P	1.9
890	" "	"	D	"	"	"	P	1.8
891	Base board " "	white		"	"	"	N	
892	Ceramic tile	Cream		"	"	"	N	
893	Closet wall room # 3	white	A	"	"	"	N	
894	" " "	White	B	"	"	"	N	
895	" " "	"	C	"	"	"	N	
896	" "	"	D	"	"	"		
897	" " Shelve #3	"	C	"	"	"	N	

400

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL.	BLDG.	POS. / NEG.	
898	Window case #1	dark brown	C	Metal	2	440	N	
899	" " rail	"	C	"	2	"	N	
900	Room #3 door	white		wood	"	"	N	
901	" side jam	"		"	"	"	N	
902	" Head jam	"		"	"	"	N	
903	Enter to 2nd (wall) floor	"	C	Concrete	"	"	N	
904	" " " "	"	A	"	"	"	P	2.0
905	" "	"	D	"	"	"	N	
906	" "	"	B	"	"	"	P	1.0
907	door to porch #2	"		wood	"	"	N	
908	" " side " " jam	"		wood	"	"	N	
909	" " Head " " jam	"		"	"	"	P	1.0
910	Porch #2 wall	"	A	concrete	"	"	P	6.9
911	" "	"	B	"	"	"	P	4.2

Foy
Hallway cont.

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
912	porch # 2 wall	white	C	concrete	2	440	N
913	" " " confirmation	"	"	"	2	"	P
914	porch # 2 wall	"	D	"	"	"	N
915	Porch ceramic floor-tile 6x12 porch #2	terra-cota		ceramic	"	"	N
916	Alero del porch #2	azul	A	Concrete	"	"	N
917	Master-room #4 wall	white	A	"	"	"	N
918	" "	"	B	"	"	"	N
919	" "	"	C	"	"	"	N
920	" "	"	D	"	"	"	N
921	base board	"	D	wood	"	"	N
922	ceramic tile 8x8 Mater room	cream		ceramic	"	"	N
923	bathroom # 2 wall	white	A	concrete	"	"	N
924	" "	"	B	"	"	"	N
925	" "	"	C	"	"	"	N
926	" "	"	D	"	"	"	N

3.2

cushion ?
4"x4" 1/2 to down

ceramic 4"x2"
green chair rail &
ceramic
baseboard
4"x4"

400

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

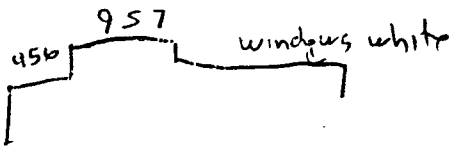
SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
927	bath room #2 Ceramic	yellow	A	Ceramic	2	440	P	15
928	" "	gray	A	Ceramic	2	"	P	21
929	Toilet tank	green	B	"	"	"	N	
930	Toilet base	"	B	"	"	"	N	
931	Tub bathroom #2	"	C	"	"	"	P	36
932	bathroom floor #2 floor tile	green and white	floor	Ceramic	"	"	N	
933	bathroom #2 door	white	D	wood	"	"	N	
934	" " " side jam	"	D	"	"	"	N	
935	" " " " Head jam	"	D	"	"	"	N	
936	Closet room #4 wall	"	A	Concret	"	"	N	
937	" "	"	B	"	"	"	N	
938	" "	"	C	"	"	"	N	
939	" "	"	D	"	"	"	N	
940	" " " shelve #3	"	C	wood	"	"	P	2.1
941	" " #1	"	A	"	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
942	Closet door Master room #4	white	D	wood	2	440	N	
943	" side jam	"		"	2	"	N	
944	" Head jam	"		"	"	"	N	
945	Stair way wall	"	A	Concrete	"	"	N	
946	" "	"	B	"	"	"	N	
947	" "	"	C	"	"	"	N	
948	" "	"	D	"	2	440	N	
949	Hand rail	brown		wood	"	"	N	
950	Close door Next room # 1	white	B	wood	"	"	N	
951	outside wall	white	A	Concrete	1	440	P	7.1
952	"	"	B	"	1	440	P	5.9
953	"	"	C	"	1	"	P	4.7
954	"	"	D	"	1	"	P	2.6
955	Ceramic floor tile 6x2 outside porch floor	Terra Cota	floor	Clearance	1	"	N	
956	Alero	Blue	C	Concrete	1	"	N	
957	"	"	"	"	1	"	N	



ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
958	Porch outside Small wall	white		Concrete	1	440	N	
959	Outside wall Second floor	white	B	"	2	440	P	4.6
960	" "	"	C	"	"	"	P	4.5 ~~[illegible]~~
961	" "	"	D	"	"	"	P	2.6
962	" "	"	A	"	"	"	P	4.5
						~~[illegible]~~		
1,110	Garage exterior	white	A	Concrete	~~Basement~~ Exterior	440	N	
1,111	" "	"	B	"	"	"	N	
1,112	" "	"	C	"	"	"	N	
1,113	" "	"	D	"	Exterior	"	N	
1,114	Garage door exterior	white		wood	"	"	N	
1,115	Garage door side (Left jam	"		"	"	"	N	
1,116	Garage doorhead jam	"		"	"	"	N	
1,117	Exterior wall Garage	"	~~[illegible]~~ OFF the house				P	3.5
1,118	Exterior Garage	azul	C	Concrete	"	"	N	
1,119	over wall entrance to garage	white	C	Concrete	"	"	P	3.1

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

400

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,120	wall entrance to garage right side	white	B ~~Right~~	concrete	exterior	440	N	
1,121	wall entrance to garage left side	"	~~left~~ D	Concrete	exterior	440	N	
1,122	garage access railing	white		Metal	"	440	N	
1,123	Step raise	white		concrete	"	"	Neg	
1,124	out side wall Garage right side	white	~~right~~	"	"	"	P	7.2
1,125	Outside wall Garage left side	"	left	"	"	"	P	4.2
1,126	Calibration						P	
1,127	Calibration						N	
1,128	Calibration						P	
~~1,129~~	~~Calibration~~							

SAMPLING DATA

Form 5.3
Field Sampling Form for ~~Deteriorated~~ Paint Confirmation
(One form for each housing unit, common area, or exterior)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address Stop 7 1/2 Facility Apt. no. 440 Building

Dwelling selection protocol ✓ All dwellings _____ Targeted _____ Worst case _____ Random

~~Target~~ dwelling criteria (check all that apply)

✓ Code violations
✓ Judged to be in poor condition
_____ Presence of two or more children between ages of 6 months and 6 years
_____ Serves as day-care facility
_____ Recently prepared for reoccupancy } unoccupied
_____ Random sampling

Sample number	Room	Building component	Lead (mg/cm² or µg/g) (area sample measurement)	Time
81702 P-440-01	Dining Room	Wall A (2 in²)	0.492	1555 H.
81703 P-440-02	Living Room	Wall B (2 in²)	0.438	1620 H
HUD interim standard			5,000 µg/g or 1 mg/cm²	

Sample *all* layers of paint, not just deteriorated paint layers.

Total number of samples on this page 2

Page 1 of 1

Date of sample collection 2 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

Date results reported ___/___/___ Analyzed by _____

Approved by _____

Form 5.4
Field Sampling Form for Dust
(Single-Surface Sampling)

Name of risk assessor Miguel A. Olivera5

Name of property owner US Navy

Property address Stop 7 1/2 site Apt. no. 440 Bldg

Dwelling selection protocol ✓ All dwellings ____ Targeted ____ Worst case ____ Random

~~Target~~ dwelling criteria (check all that apply)

✓ Code violations
✓ Judged to be in poor condition
____ Presence of two or more children between ages of 6 months and 6 years
____ Serves as day-care facility
____ Recently prepared for reoccupancy unoccupied

	Sample number	Room (record name of room used by the owner or resident)	Surface type (circle the type)	Is surface smooth and cleanable?	Dimensions[1] of sample area (inches x inches)	Area (ft²)	Result of lab analysis (µg/ft²)	
81664	D-440.01	Playroom Living Room	Floor	y	12 x 12		61.1	☆
.65	D-440.02	Playroom Living Room	Interior window sill or window trough	y	2 x 8		<64.8	
81 666	D-440 03	Kitchen	Floor	y	12 x 12		194.0	☆
81 667	D.440.04	Kitchen	Interior window sill or window trough	y	4 x 4		<64.8	
81 668	D.440.05	Bedroom 1 Room No 2	Floor	y	12 x 12		145.0	☆
81 669	D.440.06	Bedroom 1 Room No. 2	Interior window sill or window trough	y	4 x 4		<64.8	
81 670	D.440.07	Bedroom 2 Room No. 3	Floor	y	12 x 12		88.1	☆
81 671	D.440.08	Bedroom 2 Room No. 3	Interior window sill or window trough	y	2 x 8		<64.8	
	~~Entrance~~				x		52.4	☆
81 672	D.440.09	Front Entrance	Floor	y	12 x 12		76.3	☆
81 673	D.440.10	Back Porch Ent	Floor	y	12 x 12		<8.00	
81 674	D.440.11	Control	Floor	y	12 x 12			

[1] Measure to the nearest 1/8 inch.

HUD standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² (window troughs)

Total number of samples on this page 11

Page 1 of 1

Date of sample collection 2 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by _____ (signature) 10:00 AM

Calle Labra #1004, 2nd. Floor, Ave. [illegible]d, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: ([illegible]) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atop 7½ site 400
Site Location:
Samplers Name: Miguel Olivera
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Ro wipes							Remarks
775	ED.440.01	Ext. Front Entrance Side A	4/9/00			/		N/A	1	/							138.0
776	ED.440.02	Ext. Back Entrance Side C	↓			/		↓	1	/							260.0
777	ED.440.03	Ext Side Entrance Side B				/			1	/							17.7
778	[redacted]	[redacted]				/			1	/							
779	[redacted]	[redacted]				/			1	/							
780	[redacted]	[redacted]				/			1	/							
781	[redacted]	[redacted]				/			1	/							
782	[redacted]	[redacted]				/			1	/							
783	[redacted]	[redacted] Foyer	↓			/		↓	1	/							

ug/sq. ft. ☆ ☆

Turnaround Time: Normal: ☐ Rush: ☑

Comments:

Relinquished By:	Miguel A. Olivera	Date/Time	10 Apr 00 1200 HCS	Delivered Directly to Lab: ☐	Shipped: ☐
Received By:	Juan J. Ruta	Date/Time	4/10/00 12:00 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address 440 Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
S.440.01	Building perimeter		229.0
	Building perimeter		
	Play area 1 (describe)		
	Play area 2 (describe)		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 3 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by [illegible] (signature) Received by [illegible] 10:00 am (signature)

XRF DATA

400

Serial #XL309-U12673701LY Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
1	697	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/30/100	10:12:44		1 of 1
2	**698**	**1.06 ± 0.12**	**POS**	**0.4 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.4**	**3/30/100**	**10:13:27**		**1 of 1**
3	**699**	**1.18 ± 0.15**	**POS**	**0.3 ± 0.7**	**1.2 ± 0.1**	**1.1**	**15.6**	**3/30/100**	**10:14:43**		**1 of 1**
4	**700**	**1.12 ± 0.12**	**POS**	**0.6 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.3**	**3/30/100**	**10:15:35**		**1 of 1**
5	701	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	10:18:44		1 of 1
6	702	0.68 ± 0.35	NEG	0.5 ± 0.4	0.5 ± 0.2	10.0	50.3	3/30/100	10:19:13		1 of 1
7	703	0.12 ± 0.20	NEG	0.2 ± 0.9	0.1 ± 0.1	7.2	8.6	3/30/100	10:21:18		1 of 1
8	704	0.00 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	10:21:54		1 of 1
9	705	0.02 ± 0.17	NEG	-0.7 ± 1.1	0.0 ± 0.1	2.3	8.6	3/30/100	10:22:44		1 of 1
10	706	0.00 ± 0.10	NEG	-0.7 ± 1.3	0.0 ± 0.1	1.0	6.2	3/30/100	10:23:43		1 of 1
11	707	0.03 ± 0.15	NEG	-0.2 ± 1.0	0.0 ± 0.1	3.4	8.6	3/30/100	10:24:18		1 of 1
12	708	0.07 ± 0.24	NEG	-0.3 ± 1.2	0.1 ± 0.1	4.8	6.1	3/30/100	10:26:10		1 of 1
13	709	0.06 ± 0.24	NEG	-0.3 ± 1.1	0.1 ± 0.1	3.9	6.1	3/30/100	10:26:28		1 of 1
14	710	0.11 ± 0.30	NEG	0.1 ± 0.9	0.1 ± 0.2	4.8	11.1	3/30/100	10:26:46		1 of 1
15	711	0.04 ± 0.21	NEG	-1.0 ± 1.2	0.0 ± 0.1	3.3	6.1	3/30/100	10:27:17		1 of 1
16	712	0.03 ± 0.20	NEG	-0.4 ± 1.0	0.0 ± 0.1	2.8	6.1	3/30/100	10:28:39		1 of 1
17	713	0.12 ± 0.29	NEG	-0.8 ± 1.1	0.1 ± 0.1	3.0	6.1	3/30/100	10:29:14		1 of 1
18	714	0.00 ± 0.10	NEG	-0.9 ± 1.3	0.0 ± 0.1	1.0	6.1	3/30/100	10:30:07		1 of 1
19	715	0.31 ± 0.20	NEG	0.8 ± 0.5	0.8 ± 0.2	10.0	50.4	3/30/100	10:30:25		1 of 1
20	716	0.31 ± 0.20	NEG	0.6 ± 0.5	0.6 ± 0.2	10.0	50.4	3/30/100	10:32:19		1 of 1
21	717	0.30 ± 0.19	NEG	0.5 ± 0.5	0.5 ± 0.2	10.0	50.4	3/30/100	10:34:13		1 of 1
22	718	0.09 ± 0.16	NEG	-1.1 ± 1.3	0.1 ± 0.1	2.1	6.1	3/30/100	10:36:54		1 of 1
23	**719**	**0.24 ± 0.16**	**POS**	**1.1 ± 0.5**	**1.1 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**10:37:28**		**1 of 1**
24	720	0.29 ± 0.19	NEG	0.7 ± 0.4	0.7 ± 0.2	10.0	50.4	3/30/100	10:39:38		1 of 1
25	721	0.26 ± 0.17	NEG	0.7 ± 0.5	0.7 ± 0.2	10.0	50.4	3/30/100	10:41:31		1 of 1
26	722	0.37 ± 0.23	NEG	0.8 ± 0.5	0.8 ± 0.2	10.0	50.4	3/30/100	10:43:40		1 of 1
27	**723**	**0.37 ± 0.23**	**POS**	**1.0 ± 0.5**	**1.0 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**10:45:46**		**1 of 1**
28	724	0.10 ± 0.14	NEG	0.0 ± 1.1	0.1 ± 0.1	2.3	8.6	3/30/100	10:48:21		1 of 1
29	725	0.00 ± 0.10	NEG	-1.2 ± 1.3	0.0 ± 0.1	1.0	6.2	3/30/100	10:49:20		1 of 1
30	726	0.01 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	2.3	6.2	3/30/100	10:49:56		1 of 1
31	727	0.00 ± 0.10	NEG	-1.3 ± 1.2	0.0 ± 0.1	1.0	6.1	3/30/100	10:50:18		1 of 1
32	728	0.18 ± 0.20	NEG	0.2 ± 1.0	0.2 ± 0.1	3.0	8.6	3/30/100	10:51:47		1 of 1
33	729	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	10:52:19		1 of 1

400

Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
34	730	0.31 ± 0.32	NEG	0.1 ± 0.9	0.3 ± 0.2	4.8	11.0	3/30/100	10:52:38		1 of 1
35	731	0.25 ± 0.17	NEG	-0.7 ± 1.3	0.2 ± 0.1	1.7	6.1	3/30/100	10:53:08		1 of 1
36	732	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.2	6.2	3/30/100	10:53:37		1 of 1
37	733	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	10:54:07		1 of 1
38	**734**	**>>5.0 ± 1.00**	**POS**	**9.2 ± 4.8**	**9.2 ± 2.4**	**1.9**	**1.1**	**3/30/100**	**10:55:32**		**1 of 1**
39	735	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	10:58:27		1 of 1
40	**736**	**>>5.0 ± 1.00**	**POS**	**7.3 ± 4.3**	**7.3 ± 2.2**	**2.1**	**1.1**	**3/30/100**	**10:58:57**		**1 of 1**
41	**737**	**1.67 ± 0.49**	**POS**	**3.5 ± 1.3**	**3.5 ± 0.6**	**2.1**	**6.0**	**3/30/100**	**10:59:12**		**1 of 1**
42	738	0.05 ± 0.15	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.3	5.8	3/30/100	11:00:02		1 of 1
43	739	0.11 ± 0.10	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	23.2	3/30/100	11:00:38		1 of 1
44	**740**	**0.84 ± 0.42**	**POS**	**2.5 ± 0.9**	**2.5 ± 0.4**	**6.5**	**18.4**	**3/30/100**	**11:02:05**		**1 of 1**
45	741	0.00 ± 0.10	NEG	-1.0 ± 1.3	0.0 ± 0.1	1.3	6.1	3/30/100	11:03:00		1 of 1
46	**742**	**0.55 ± 0.44**	**POS**	**3.4 ± 1.4**	**3.4 ± 0.7**	**10.0**	**6.1**	**3/30/100**	**11:03:20**		**1 of 1**
47	**743**	**0.48 ± 0.32**	**POS**	**2.0 ± 0.7**	**2.0 ± 0.3**	**10.0**	**25.8**	**3/30/100**	**11:03:52**		**1 of 1**
48	**744**	**0.69 ± 0.41**	**POS**	**3.0 ± 0.9**	**3.0 ± 0.5**	**5.5**	**13.4**	**3/30/100**	**11:05:24**		**1 of 1**
49	**745**	**0.76 ± 0.55**	**POS**	**3.3 ± 1.1**	**3.3 ± 0.6**	**10.0**	**8.6**	**3/30/100**	**11:06:28**		**1 of 1**
50	**746**	**0.78 ± 0.57**	**POS**	**3.1 ± 1.2**	**3.1 ± 0.6**	**10.0**	**8.6**	**3/30/100**	**11:07:05**		**1 of 1**
51	**747**	**0.44 ± 0.30**	**POS**	**2.2 ± 0.7**	**2.2 ± 0.4**	**10.0**	**20.9**	**3/30/100**	**11:07:49**		**1 of 1**
52	**748**	**1.28 ± 0.86**	**POS**	**1.8 ± 0.7**	**1.8 ± 0.4**	**10.0**	**20.9**	**3/30/100**	**11:09:17**		**1 of 1**
53	**749**	**1.26 ± 0.83**	**POS**	**1.5 ± 0.7**	**1.5 ± 0.3**	**10.0**	**20.9**	**3/30/100**	**11:10:07**		**1 of 1**
54	750	0.56 ± 0.39	NEG	0.1 ± 0.7	0.6 ± 0.2	7.7	20.9	3/30/100	11:10:57		1 of 1
55	**751**	**0.95 ± 0.62**	**POS**	**1.6 ± 0.6**	**1.6 ± 0.3**	**10.0**	**25.7**	**3/30/100**	**11:11:53**		**1 of 1**
56	752	0.34 ± 0.26	NEG	0.5 ± 0.6	0.3 ± 0.1	5.9	20.8	3/30/100	11:12:59		1 of 1
57	**753**	**0.99 ± 1.01**	**POS**	**7.9 ± 3.1**	**7.9 ± 1.6**	**10.0**	**1.2**	**3/30/100**	**11:13:59**		**1 of 1**
58	754	0.09 ± 0.15	NEG	0.5 ± 0.8	0.1 ± 0.1	2.3	15.1	3/30/100	11:15:05		1 of 1
59	755	0.43 ± 0.35	NEG	0.5 ± 0.6	0.4 ± 0.2	7.2	20.8	3/30/100	11:16:02		1 of 1
60	756	0.06 ± 0.26	NEG	-0.5 ± 0.8	0.1 ± 0.1	3.7	8.6	3/30/100	11:16:57		1 of 1
61	757	0.02 ± 0.17	NEG	-0.1 ± 0.8	0.0 ± 0.1	2.1	6.2	3/30/100	11:17:20		1 of 1
62	758	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	11:18:00		1 of 1
63	759	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	11:18:24		1 of 1
64	760	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	13.5	3/30/100	11:19:12		1 of 1
65	761	0.00 ± 0.10	NEG	-1.9 ± 1.3	0.0 ± 0.1	1.0	6.2	3/30/100	11:19:47		1 of 1
66	**762**	**1.15 ± 0.94**	**POS**	**13.3 ± 3.1**	**13.3 ± 1.5**	**10.0**	**3.7**	**3/30/100**	**11:20:06**		**1 of 1**
67	**763**	**2.64 ± 3.46**	**POS**	**17.9 ± 5.5**	**17.9 ± 2.7**	**10.0**	**1.2**	**3/30/100**	**11:20:38**		**1 of 1**

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
68	764	0.02 ± 0.10	NEG	-0.3 ± 0.7	0.0 ± 0.1	3.7	18.4	3/30/100	11:20:54		1 of 1
69	765	0.47 ± 0.40	NEG	0.6 ± 0.6	0.5 ± 0.2	7.9	20.8	3/30/100	11:22:27		1 of 1
70	766	0.03 ± 0.10	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	27.7	3/30/100	11:23:17		1 of 1
71	767	0.01 ± 0.10	NEG	-2.5 ± 1.2	0.0 ± 0.1	1.0	6.0	3/30/100	11:24:23		1 of 1
72	768	0.02 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.0	3/30/100	11:24:41		1 of 1
73	769	0.01 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	2.0	6.2	3/30/100	11:25:45		1 of 1
74	770	0.34 ± 0.24	NEG	1.0 ± 0.5	0.3 ± 0.1	7.7	33.2	3/30/100	11:27:40		1 of 1
75	771	0.01 ± 0.10	NEG	-0.7 ± 1.4	0.0 ± 0.1	1.0	6.1	3/30/100	11:28:58		1 of 1
76	772	0.10 ± 0.17	NEG	0.5 ± 0.7	0.1 ± 0.1	6.6	20.9	3/30/100	11:29:17		1 of 1
77	773	0.04 ± 0.12	NEG	0.3 ± 0.8	0.0 ± 0.1	2.9	16.0	3/30/100	11:30:06		1 of 1
78	774	0.07 ± 0.32	NEG	-0.2 ± 0.9	0.1 ± 0.2	3.0	6.1	3/30/100	11:30:56		1 of 1
79	**775**	**0.00 ± 0.10**	**POS**	**6.3 ± 2.2**	**6.3 ± 1.1**	**1.0**	**3.7**	**3/30/100**	**11:31:23**		**1 of 1**
80	776	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	16.0	3/30/100	11:31:45		1 of 1
81	**777**	**0.11 ± 0.49**	**POS**	**8.8 ± 3.6**	**8.8 ± 1.8**	**4.6**	**1.2**	**3/30/100**	**11:32:23**		**1 of 1**
82	**778**	**0.01 ± 0.10**	**POS**	**14.4 ± 4.3**	**14.4 ± 2.2**	**1.0**	**1.2**	**3/30/100**	**11:32:43**		**1 of 1**
83	779	0.01 ± 0.14	NEG	0.1 ± 1.0	0.0 ± 0.1	1.3	8.6	3/30/100	11:32:59		1 of 1
84	**780**	**0.00 ± 0.10**	**POS**	**5.7 ± 2.0**	**5.7 ± 1.0**	**1.0**	**3.7**	**3/30/100**	**11:33:42**		**1 of 1**
85	781	0.01 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.7	6.2	3/30/100	11:34:17		1 of 1
86	782	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/30/100	11:34:47		1 of 1
87	783	0.18 ± 0.12	NEG	0.6 ± 0.5	0.5 ± 0.2	10.0	50.4	3/30/100	11:35:39		1 of 1
88	**784**	**0.25 ± 0.16**	**POS**	**1.1 ± 0.4**	**1.1 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**11:37:33**		**1 of 1**
89	785	0.08 ± 0.21	NEG	-0.8 ± 1.1	0.1 ± 0.1	5.5	8.6	3/30/100	11:40:27		1 of 1
90	786	0.05 ± 0.23	NEG	-0.1 ± 1.1	0.0 ± 0.1	3.4	8.6	3/30/100	11:40:53		1 of 1
91	787	0.48 ± 0.36	NEG	0.7 ± 0.7	0.5 ± 0.2	7.5	20.9	3/30/100	11:41:33		1 of 1
92	788	0.20 ± 0.14	NEG	0.3 ± 0.5	0.3 ± 0.2	10.0	50.4	3/30/100	11:42:38		1 of 1
93	789	0.02 ± 0.10	NEG	-1.0 ± 1.0	0.0 ± 0.1	1.0	6.0	3/30/100	11:46:42		1 of 1
94	790	0.04 ± 0.10	INCOM	1.1 ± 0.5	1.1 ± 0.3	10.0	16.1	3/30/100	11:47:28		1 of 1
95	791	0.02 ± 0.12	NEG	0.7 ± 0.6	0.0 ± 0.1	3.3	16.1	3/30/100	11:48:18		1 of 1
96	792	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	11:49:01		1 of 1
97	793	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.2	3/30/100	11:49:21		1 of 1
98	794	0.03 ± 0.21	NEG	-1.0 ± 1.1	0.0 ± 0.1	3.0	6.1	3/30/100	11:49:45		1 of 1
99	795	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	11:50:08		1 of 1
100	796	0.01 ± 0.10	NEG	-0.6 ± 1.3	0.0 ± 0.1	2.0	6.2	3/30/100	11:50:34		1 of 1
101	797	0.00 ± 0.10	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.0	6.1	3/30/100	11:51:31		1 of 1

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
102	798	0.19 ± 0.13	NEG	0.8 ± 0.5	0.8 ± 0.2	10.0	50.4	3/30/100	11:51:59		1 of 1
103	799	0.03 ± 0.10	NEG	0.9 ± 0.6	0.0 ± 0.1	2.6	23.4	3/30/100	11:53:53		1 of 1
104	**800**	**0.24 ± 0.17**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**10.0**	**30.8**	**3/30/100**	**11:54:54**		**1 of 1**
105	801	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/30/100	11:57:00		1 of 1
106	802	0.12 ± 0.10	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	25.7	3/30/100	11:57:29		1 of 1
107	803	0.10 ± 0.15	NEG	0.2 ± 0.8	0.1 ± 0.1	7.8	13.5	3/30/100	11:59:08		1 of 1
108	804	0.08 ± 0.17	NEG	0.3 ± 0.8	0.1 ± 0.1	3.5	13.5	3/30/100	11:59:44		1 of 1
109	805	0.05 ± 0.11	NEG	0.2 ± 0.9	0.0 ± 0.1	2.1	11.0	3/30/100	12:00:25		1 of 1
110	806	0.02 ± 0.12	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.7	8.6	3/30/100	12:00:54		1 of 1
111	807	0.17 ± 0.11	NEG	0.6 ± 0.6	0.2 ± 0.1	2.8	20.7	3/30/100	12:01:20		1 of 1
112	808	0.10 ± 0.32	NEG	-0.5 ± 0.6	0.1 ± 0.2	4.3	13.3	3/30/100	12:02:20		1 of 1
113	809	0.57 ± 0.60	INCOM	0.4 ± 1.0	0.4 ± 0.5	8.7	6.1	3/30/100	12:03:03		1 of 1
114	810	0.16 ± 0.11	NEG	0.7 ± 0.6	0.2 ± 0.1	2.9	20.9	3/30/100	12:03:28		1 of 1
115	811	0.17 ± 0.19	NEG	0.7 ± 0.6	0.2 ± 0.1	4.5	16.0	3/30/100	12:04:19		1 of 1
116	**812**	**0.33 ± 0.21**	**POS**	**1.2 ± 0.5**	**1.2 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**12:11:01**		**1 of 1**
117	**813**	**0.22 ± 0.16**	**POS**	**1.2 ± 0.5**	**1.2 ± 0.2**	**9.6**	**50.4**	**3/30/100**	**12:12:54**		**1 of 1**
118	**814**	**0.41 ± 0.26**	**POS**	**1.5 ± 0.5**	**1.5 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**12:14:50**		**1 of 1**
119	**815**	**0.52 ± 0.33**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**10.0**	**35.7**	**3/30/100**	**12:16:46**		**1 of 1**
120	816	0.18 ± 0.21	NEG	0.4 ± 0.7	0.2 ± 0.1	4.0	13.5	3/30/100	12:18:27		1 of 1
121	817	0.31 ± 0.33	NEG	0.1 ± 0.7	0.3 ± 0.2	6.4	15.9	3/30/100	12:19:13		1 of 1
122	818	0.20 ± 0.41	NEG	-0.4 ± 1.3	0.2 ± 0.2	6.1	6.1	3/30/100	12:19:53		1 of 1
123	819	0.07 ± 0.30	NEG	-0.8 ± 1.1	0.1 ± 0.2	3.6	6.1	3/30/100	12:20:22		1 of 1
124	820	0.18 ± 0.44	NEG	-0.5 ± 1.2	0.2 ± 0.2	5.3	6.1	3/30/100	12:20:39		1 of 1
125	821	0.67 ± 0.41	NEG	0.4 ± 0.4	0.4 ± 0.2	10.0	50.1	3/30/100	12:21:04		1 of 1
126	822	0.08 ± 0.36	NEG	-0.5 ± 1.0	0.1 ± 0.2	3.4	6.1	3/30/100	12:23:04		1 of 1
127	823	0.14 ± 0.45	NEG	-0.3 ± 1.1	0.1 ± 0.2	4.1	6.1	3/30/100	12:23:28		1 of 1
128	824	0.39 ± 0.27	NEG	-0.2 ± 0.6	-0.2 ± 0.3	10.0	18.4	3/30/100	12:23:48		1 of 1
129	825	0.10 ± 0.14	NEG	0.4 ± 0.6	0.1 ± 0.1	3.4	16.0	3/30/100	12:24:37		1 of 1
130	826	0.00 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	12:25:30		1 of 1
131	827	0.00 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	12:26:09		1 of 1
132	828	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	12:28:05		1 of 1
133	829	0.01 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	3.3	6.1	3/30/100	12:28:47		1 of 1
134	830	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/30/100	12:29:05		1 of 1
135	831	0.00 ± 0.10	NEG	0.7 ± 0.6	0.0 ± 0.1	1.0	11.1	3/30/100	12:29:35		1 of 1

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
136	832	0.09 ± 0.13	NEG	-2.2 ± 1.4	0.1 ± 0.1	1.7	6.1	3/30/100	12:31:38		1 of 1
137	833	0.42 ± 0.35	NEG	-0.9 ± 0.7	0.4 ± 0.2	7.1	20.8	3/30/100	12:31:57		1 of 1
138	**834**	**0.63 ± 0.53**	**POS**	**5.2 ± 1.9**	**5.2 ± 1.0**	**10.0**	**3.6**	**3/30/100**	**12:32:48**		**1 of 1**
139	**835**	**0.83 ± 0.63**	**POS**	**3.8 ± 1.5**	**3.8 ± 0.7**	**10.0**	**6.1**	**3/30/100**	**12:33:06**		**1 of 1**
140	836	0.09 ± 0.10	NEG	-0.6 ± 0.6	-0.6 ± 0.3	10.0	20.9	3/30/100	12:34:00		1 of 1
141	837	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	12:35:25		1 of 1
142	838	0.00 ± 0.10	INCOM	-0.5 ± 2.2	0.0 ± 0.1	1.0	1.2	3/30/100	12:36:03		1 of 1
143	839	0.00 ± 0.10	NEG	-0.7 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	12:36:23		1 of 1
144	840	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	8.6	3/30/100	12:36:46		1 of 1
145	841	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.1	3/30/100	12:37:09		1 of 1
146	842	0.45 ± 0.28	NEG	0.9 ± 0.4	0.9 ± 0.2	10.0	52.4	3/30/100	12:38:36		1 of 1
147	**843**	**1.78 ± 0.81**	**POS**	**2.8 ± 1.5**	**1.8 ± 0.4**	**3.9**	**6.1**	**3/30/100**	**12:41:08**		**1 of 1**
148	**844**	**0.30 ± 0.21**	**POS**	**2.0 ± 0.7**	**2.0 ± 0.3**	**10.0**	**23.4**	**3/30/100**	**12:41:29**		**1 of 1**
149	**845**	**0.25 ± 0.18**	**POS**	**2.0 ± 0.7**	**2.0 ± 0.3**	**10.0**	**25.8**	**3/30/100**	**12:42:26**		**1 of 1**
150	**846**	**0.32 ± 0.21**	**POS**	**1.8 ± 0.5**	**1.8 ± 0.3**	**10.0**	**43.0**	**3/30/100**	**12:43:28**		**1 of 1**
151	**847**	**0.37 ± 0.26**	**POS**	**2.1 ± 0.8**	**2.1 ± 0.4**	**10.0**	**20.9**	**3/30/100**	**12:45:07**		**1 of 1**
152	848	0.69 ± 0.38	NEG	0.9 ± 0.6	0.7 ± 0.2	7.4	23.3	3/30/100	12:46:09		1 of 1
153	849	0.00 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	1.0	20.9	3/30/100	12:47:03		1 of 1
154	850	0.25 ± 0.32	NEG	-0.3 ± 0.7	0.3 ± 0.2	7.6	20.9	3/30/100	12:48:09		1 of 1
155	851	0.09 ± 0.27	NEG	-0.2 ± 0.9	0.1 ± 0.1	2.8	6.1	3/30/100	12:49:04		1 of 1
156	852	0.08 ± 0.32	NEG	-0.2 ± 1.2	0.1 ± 0.2	3.3	6.1	3/30/100	12:50:46		1 of 1
157	853	0.25 ± 0.16	NEG	0.2 ± 0.4	0.2 ± 0.2	10.0	50.4	3/30/100	12:51:02		1 of 1
158	854	0.44 ± 0.29	NEG	0.2 ± 0.4	0.2 ± 0.2	10.0	30.7	3/30/100	12:52:54		1 of 1
159	855	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/30/100	14:16:31		1 of 1
160	**856**	**1.19 ± 0.21**	**POS**	**1.7 ± 0.9**	**1.2 ± 0.1**	**1.0**	**8.4**	**3/30/100**	**14:16:47**		**1 of 1**
161	**857**	**1.51 ± 0.28**	**POS**	**2.1 ± 1.1**	**1.5 ± 0.1**	**1.0**	**5.9**	**3/30/100**	**14:17:18**		**1 of 1**
162	**858**	**3.42 ± 0.73**	**POS**	**2.0 ± 2.0**	**3.4 ± 0.4**	**1.1**	**3.5**	**3/30/100**	**14:17:47**		**1 of 1**
163	859	0.52 ± 0.36	NEG	-0.1 ± 0.6	-0.1 ± 0.3	10.0	18.3	3/30/100	14:20:19		1 of 1
164	860	0.07 ± 0.17	NEG	0.5 ± 0.7	0.1 ± 0.1	3.1	11.1	3/30/100	14:21:04		1 of 1
165	861	0.17 ± 0.25	NEG	0.7 ± 0.6	0.2 ± 0.1	7.2	16.0	3/30/100	14:21:35		1 of 1
166	862	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	14:22:43		1 of 1
167	863	0.25 ± 0.19	NEG	0.8 ± 0.4	0.3 ± 0.1	7.9	43.2	3/30/100	14:23:01		1 of 1
168	864	0.20 ± 0.28	NEG	0.6 ± 0.5	0.2 ± 0.1	7.2	21.0	3/30/100	14:24:36		1 of 1
169	865	0.04 ± 0.17	NEG	-0.3 ± 0.9	0.0 ± 0.1	4.0	11.0	3/30/100	14:25:34		1 of 1

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
170	866	0.28 ± 0.18	NEG	0.9 ± 0.4	0.9 ± 0.2	10.0	50.4	3/30/100	14:26:15		1 of 1
171	**867**	**0.41 ± 0.26**	**POS**	**1.1 ± 0.5**	**1.1 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**14:28:11**		**1 of 1**
172	868	0.01 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	14:30:15		1 of 1
173	869	0.29 ± 0.36	NEG	0.4 ± 0.6	0.3 ± 0.2	7.6	18.4	3/30/100	14:30:45		1 of 1
174	870	0.21 ± 0.34	NEG	-0.7 ± 0.8	0.2 ± 0.2	6.9	11.0	3/30/100	14:31:31		1 of 1
175	871	0.16 ± 0.25	NEG	0.4 ± 0.8	0.2 ± 0.1	4.7	13.5	3/30/100	14:32:00		1 of 1
176	872	0.07 ± 0.23	NEG	-0.6 ± 1.3	0.1 ± 0.1	2.6	6.1	3/30/100	14:32:47		1 of 1
177	873	0.20 ± 0.26	NEG	0.3 ± 0.9	0.2 ± 0.1	4.0	11.0	3/30/100	14:33:14		1 of 1
178	874	0.17 ± 0.22	NEG	0.3 ± 0.8	0.2 ± 0.1	4.2	13.5	3/30/100	14:33:52		1 of 1
179	875	0.10 ± 0.25	NEG	-0.3 ± 1.2	0.1 ± 0.1	2.7	6.1	3/30/100	14:34:52		1 of 1
180	876	0.07 ± 0.10	NEG	0.4 ± 0.8	0.1 ± 0.1	2.0	15.9	3/30/100	14:35:26		1 of 1
181	877	0.26 ± 0.35	NEG	0.6 ± 0.7	0.3 ± 0.2	5.1	11.0	3/30/100	14:36:10		1 of 1
182	878	0.30 ± 0.35	NEG	0.6 ± 0.7	0.3 ± 0.2	6.5	15.9	3/30/100	14:36:45		1 of 1
183	879	0.36 ± 0.34	NEG	0.5 ± 0.5	0.4 ± 0.2	7.6	20.9	3/30/100	14:37:24		1 of 1
184	880	0.20 ± 0.24	NEG	0.3 ± 0.8	0.2 ± 0.1	3.4	8.6	3/30/100	14:38:18		1 of 1
185	**881**	**>>5.0 ± 1.00**	**POS**	**13.6 ± 4.7**	**13.6 ± 2.3**	**1.7**	**1.1**	**3/30/100**	**14:38:45**		**1 of 1**
186	**882**	**1.88 ± 0.64**	**POS**	**6.5 ± 1.7**	**6.5 ± 0.9**	**1.8**	**3.6**	**3/30/100**	**14:39:08**		**1 of 1**
187	883	0.13 ± 0.31	NEG	0.3 ± 0.9	0.1 ± 0.2	5.5	11.0	3/30/100	14:39:44		1 of 1
188	884	0.03 ± 0.17	NEG	0.2 ± 0.9	0.0 ± 0.1	1.6	10.6	3/30/100	14:40:25		1 of 1
189	885	0.17 ± 0.34	NEG	-0.2 ± 1.1	0.2 ± 0.2	6.7	8.3	3/30/100	14:40:56		1 of 1
190	**886**	**>>5.0 ± 1.00**	**POS**	**42.2 ± 7.0**	**42.2 ± 3.5**	**1.8**	**1.2**	**3/30/100**	**14:41:32**		**1 of 1**
191	**887**	**0.77 ± 0.52**	**POS**	**2.6 ± 0.8**	**2.6 ± 0.4**	**10.0**	**18.4**	**3/30/100**	**14:42:21**		**1 of 1**
192	**888**	**0.54 ± 0.33**	**POS**	**1.3 ± 0.5**	**1.3 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**14:43:06**		**1 of 1**
193	**889**	**1.24 ± 0.83**	**POS**	**1.9 ± 0.8**	**1.9 ± 0.4**	**10.0**	**20.9**	**3/30/100**	**14:44:58**		**1 of 1**
194	**890**	**0.77 ± 0.48**	**POS**	**1.8 ± 0.5**	**1.8 ± 0.2**	**10.0**	**47.9**	**3/30/100**	**14:45:48**		**1 of 1**
195	891	0.23 ± 0.24	NEG	0.5 ± 0.7	0.2 ± 0.1	4.5	13.5	3/30/100	14:47:40		1 of 1
196	892	0.00 ± 0.11	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	11.1	3/30/100	14:48:17		1 of 1
197	893	0.23 ± 0.31	NEG	-0.4 ± 0.9	0.2 ± 0.2	5.0	11.1	3/30/100	14:49:05		1 of 1
198	894	0.17 ± 0.21	NEG	-0.7 ± 0.8	0.2 ± 0.1	8.0	16.0	3/30/100	14:49:34		1 of 1
199	895	0.21 ± 0.42	NEG	-0.1 ± 1.0	0.2 ± 0.2	5.4	8.6	3/30/100	14:50:23		1 of 1
200	896	0.30 ± 0.33	NEG	-0.1 ± 0.9	0.3 ± 0.2	5.0	11.0	3/30/100	14:50:48		1 of 1
201	897	0.17 ± 0.26	NEG	0.1 ± 1.0	0.2 ± 0.1	7.7	6.1	3/30/100	14:51:16		1 of 1
202	898	0.01 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	2.0	6.2	3/30/100	14:51:39		1 of 1
203	899	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	8.7	3/30/100	14:51:58		1 of 1

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
204	900	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	14:52:25		1 of 1
205	901	0.05 ± 0.13	NEG	0.2 ± 0.8	0.1 ± 0.1	6.4	6.2	3/30/100	14:52:53		1 of 1
206	902	0.00 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	1.0	6.2	3/30/100	14:53:15		1 of 1
207	903	0.33 ± 0.21	NEG	1.0 ± 0.4	0.9 ± 0.2	10.0	50.4	3/30/100	14:54:06		1 of 1
208	**904**	**0.21 ± 0.16**	**POS**	**2.0 ± 0.7**	**2.0 ± 0.4**	**10.0**	**23.4**	**3/30/100**	**14:56:05**		**1 of 1**
209	905	0.05 ± 0.15	NEG	0.8 ± 0.7	0.0 ± 0.1	4.4	20.9	3/30/100	14:57:05		1 of 1
210	**906**	**0.32 ± 0.21**	**POS**	**1.0 ± 0.4**	**1.0 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**14:58:06**		**1 of 1**
211	907	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.0	3/30/100	15:00:22		1 of 1
212	908	0.39 ± 0.33	NEG	0.3 ± 0.5	0.4 ± 0.2	7.7	21.0	3/30/100	15:00:44		1 of 1
213	**909**	**0.61 ± 0.36**	**POS**	**1.1 ± 0.4**	**1.0 ± 0.2**	**10.0**	**50.6**	**3/30/100**	**15:01:32**		**1 of 1**
214	**910**	**>>5.0 ± 1.00**	**POS**	**6.9 ± 3.6**	**6.9 ± 1.8**	**5.0**	**1.2**	**3/30/100**	**15:03:34**		**1 of 1**
215	**911**	**4.17 ± 1.93**	**POS**	**2.3 ± 1.6**	**4.2 ± 1.0**	**4.7**	**6.1**	**3/30/100**	**15:03:51**		**1 of 1**
216	912	0.07 ± 0.10	NEG	0.4 ± 0.9	0.1 ± 0.1	1.6	11.0	3/30/100	15:04:10		1 of 1
217	**913**	**2.49 ± 1.72**	**POS**	**3.2 ± 1.1**	**3.2 ± 0.5**	**10.0**	**11.0**	**3/30/100**	**15:04:45**		**1 of 1**
218	914	0.05 ± 0.10	NEG	0.5 ± 0.8	0.1 ± 0.1	1.4	15.9	3/30/100	15:05:19		1 of 1
219	915	0.10 ± 0.19	NEG	0.6 ± 0.7	0.1 ± 0.1	4.6	18.4	3/30/100	15:06:07		1 of 1
220	916	0.73 ± 0.32	NEG	0.4 ± 0.7	0.7 ± 0.2	5.6	20.8	3/30/100	15:07:11		1 of 1
221	917	0.11 ± 0.10	NEG	0.4 ± 0.4	0.4 ± 0.2	10.0	50.4	3/30/100	15:08:24		1 of 1
222	918	0.17 ± 0.13	NEG	-0.1 ± 0.7	-0.1 ± 0.3	10.0	23.4	3/30/100	15:10:15		1 of 1
223	919	0.24 ± 0.17	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	25.8	3/30/100	15:11:11		1 of 1
224	920	0.08 ± 0.20	NEG	-0.2 ± 1.0	0.1 ± 0.1	5.4	8.6	3/30/100	15:12:11		1 of 1
225	921	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	15:12:34		1 of 1
226	922	0.01 ± 0.13	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	8.6	3/30/100	15:12:52		1 of 1
227	923	0.33 ± 0.29	NEG	0.1 ± 0.6	0.3 ± 0.1	6.8	23.3	3/30/100	15:13:37		1 of 1
228	924	0.14 ± 0.24	NEG	-0.4 ± 1.2	0.1 ± 0.1	2.8	6.1	3/30/100	15:14:32		1 of 1
229	925	0.20 ± 0.26	NEG	0.2 ± 0.7	0.2 ± 0.1	5.2	15.9	3/30/100	15:14:50		1 of 1
230	926	0.26 ± 0.36	NEG	0.3 ± 0.9	0.3 ± 0.2	5.4	11.0	3/30/100	15:15:29		1 of 1
231	**927**	**>>5.0 ± 1.00**	**POS**	**14.6 ± 4.9**	**14.6 ± 2.4**	**1.6**	**1.1**	**3/30/100**	**15:15:59**		**1 of 1**
232	**928**	**>>5.0 ± 1.00**	**POS**	**20.4 ± 5.1**	**20.4 ± 2.6**	**1.5**	**1.1**	**3/30/100**	**15:16:07**		**1 of 1**
233	929	0.14 ± 0.23	NEG	0.5 ± 0.7	0.1 ± 0.1	7.7	17.5	3/30/100	15:16:22		1 of 1
234	930	0.04 ± 0.24	NEG	0.6 ± 0.6	0.0 ± 0.1	2.7	22.2	3/30/100	15:17:07		1 of 1
235	**931**	**>>5.0 ± 1.00**	**POS**	**35.4 ± 6.7**	**35.4 ± 3.4**	**1.9**	**1.2**	**3/30/100**	**15:18:03**		**1 of 1**
236	932	0.01 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	2.6	6.1	3/30/100	15:18:11		1 of 1
237	933	0.05 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	7.6	6.1	3/30/100	15:18:32		1 of 1

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
238	934	0.03 ± 0.21	NEG	0.2 ± 0.7	0.0 ± 0.1	2.7	8.6	3/30/100	15:18:49		1 of 1
239	935	0.01 ± 0.15	NEG	0.2 ± 0.9	0.0 ± 0.1	1.9	6.2	3/30/100	15:19:12		1 of 1
240	936	0.23 ± 0.24	NEG	0.8 ± 0.6	0.2 ± 0.1	6.1	20.9	3/30/100	15:20:09		1 of 1
241	937	0.28 ± 0.32	NEG	0.4 ± 0.8	0.3 ± 0.2	5.8	13.5	3/30/100	15:20:57		1 of 1
242	938	0.19 ± 0.36	NEG	-0.1 ± 1.0	0.2 ± 0.2	6.5	8.6	3/30/100	15:21:30		1 of 1
243	939	0.15 ± 0.30	NEG	0.1 ± 1.0	0.2 ± 0.2	6.3	8.6	3/30/100	15:21:53		1 of 1
244	**940**	**0.64 ± 0.55**	**POS**	**2.7 ± 1.0**	**2.7 ± 0.5**	**9.2**	**11.0**	**3/30/100**	**15:22:16**		**1 of 1**
245	941	0.10 ± 0.20	NEG	-0.6 ± 0.8	0.1 ± 0.1	7.0	8.5	3/30/100	15:23:00		1 of 1
246	942	0.28 ± 0.21	NEG	-0.1 ± 0.6	-0.2 ± 0.3	10.0	15.9	3/30/100	15:23:28		1 of 1
247	943	0.09 ± 0.31	NEG	-0.3 ± 0.9	0.1 ± 0.2	4.3	6.2	3/30/100	15:24:07		1 of 1
248	944	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	6.2	3/30/100	15:24:24		1 of 1
249	945	0.08 ± 0.28	NEG	-0.6 ± 1.3	0.1 ± 0.1	4.7	6.1	3/30/100	15:25:41		1 of 1
250	946	0.22 ± 0.14	NEG	0.6 ± 0.4	0.6 ± 0.2	10.0	50.4	3/30/100	15:26:05		1 of 1
251	947	0.47 ± 0.29	NEG	0.6 ± 0.4	0.6 ± 0.2	10.0	50.4	3/30/100	15:28:03		1 of 1
252	948	0.19 ± 0.28	NEG	0.2 ± 0.8	0.2 ± 0.1	7.3	13.5	3/30/100	15:29:54		1 of 1
253	949	0.02 ± 0.17	NEG	0.4 ± 0.7	0.0 ± 0.1	1.8	8.6	3/30/100	15:30:28		1 of 1
254	950	0.55 ± 0.37	NEG	0.4 ± 0.6	0.6 ± 0.2	7.2	20.8	3/30/100	15:31:29		1 of 1
255	**951**	**>>5.0 ± 1.00**	**POS**	**7.1 ± 3.9**	**7.1 ± 1.9**	**10.0**	**1.2**	**3/30/100**	**15:32:50**		**1 of 1**
256	**952**	**1.44 ± 1.18**	**POS**	**5.9 ± 2.1**	**5.9 ± 1.0**	**10.0**	**3.7**	**3/30/100**	**15:33:09**		**1 of 1**
257	**953**	**3.48 ± 2.61**	**POS**	**4.7 ± 1.7**	**4.7 ± 0.8**	**10.0**	**6.1**	**3/30/100**	**15:33:34**		**1 of 1**
258	**954**	**1.91 ± 1.36**	**POS**	**2.6 ± 0.8**	**2.6 ± 0.4**	**10.0**	**18.4**	**3/30/100**	**15:34:08**		**1 of 1**
259	955	0.05 ± 0.14	NEG	0.5 ± 0.8	0.1 ± 0.1	3.2	15.9	3/30/100	15:35:06		1 of 1
260	956	0.37 ± 0.21	NEG	0.1 ± 0.8	0.4 ± 0.1	3.2	13.4	3/30/100	15:35:50		1 of 1
261	957	0.26 ± 0.21	NEG	-0.1 ± 1.0	0.3 ± 0.1	3.3	11.0	3/30/100	15:37:20		1 of 1
262	958	0.06 ± 0.10	NEG	-0.3 ± 1.1	0.1 ± 0.1	1.6	8.6	3/30/100	15:38:01		1 of 1
263	**959**	**4.63 ± 1.46**	**POS**	**2.5 ± 4.6**	**4.6 ± 0.7**	**4.2**	**1.2**	**3/30/100**	**15:39:07**		**1 of 1**
264	**960**	**>>5.0 ± 1.00**	**POS**	**4.5 ± 4.1**	**4.5 ± 2.0**	**10.0**	**1.2**	**3/30/100**	**15:39:17**		**1 of 1**
265	**961**	**2.31 ± 1.28**	**POS**	**2.6 ± 0.9**	**2.6 ± 0.5**	**9.9**	**13.4**	**3/30/100**	**15:40:41**		**1 of 1**
266	**962**	**3.96 ± 2.14**	**POS**	**4.5 ± 1.6**	**4.5 ± 0.8**	**7.0**	**6.1**	**3/30/100**	**15:42:55**		**1 of 1**

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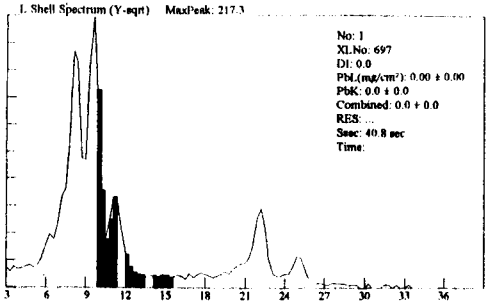
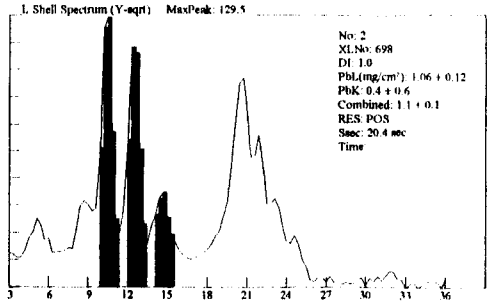
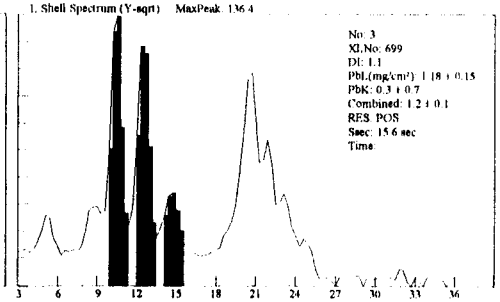
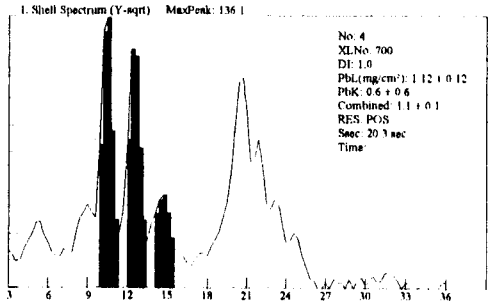
Site: Ranges (NEG<INC<POS): Device PCS

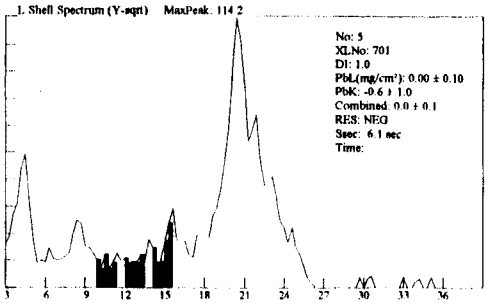
Date: 3/30/100 Paint Page 1

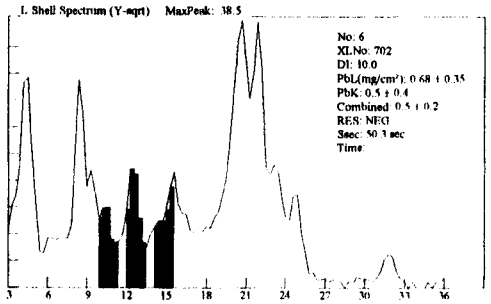


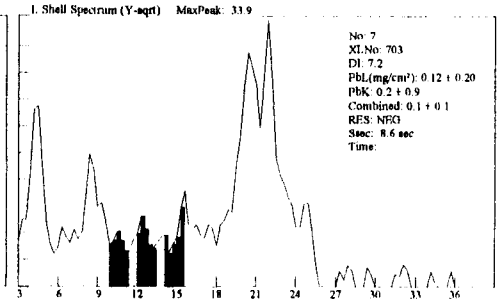


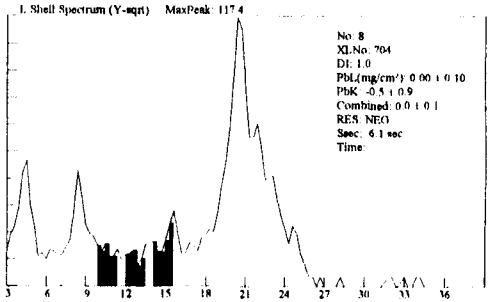


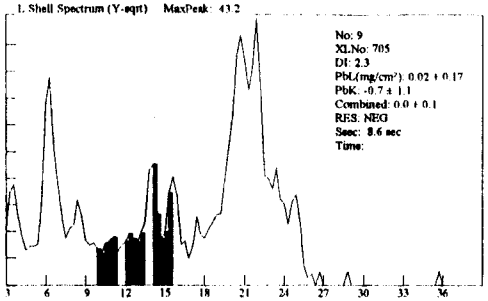


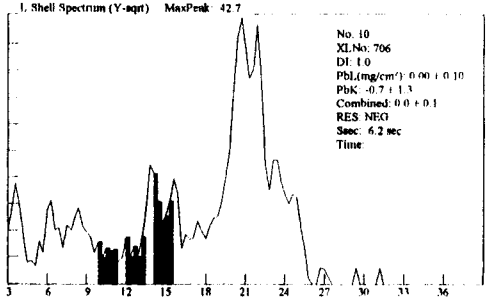


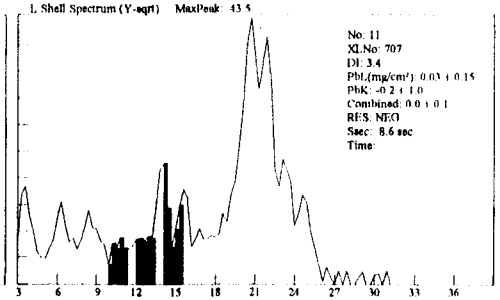


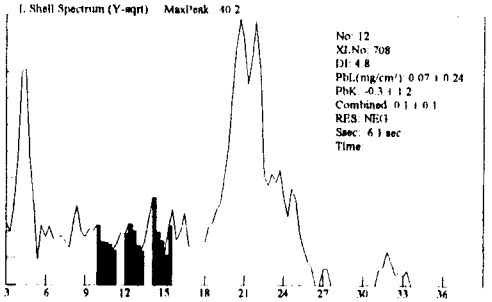


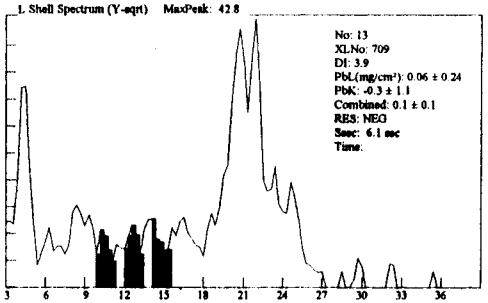


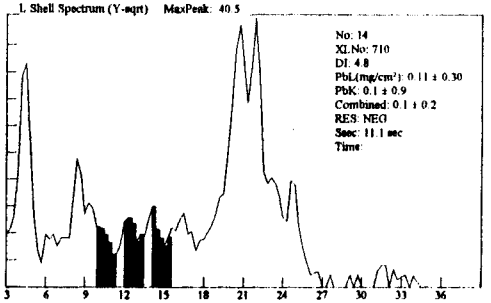


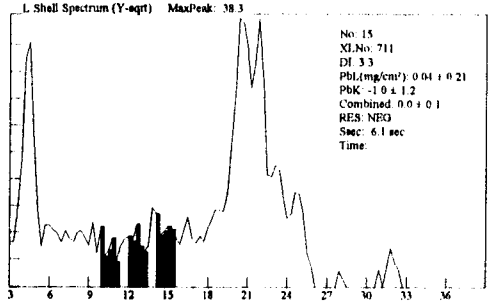


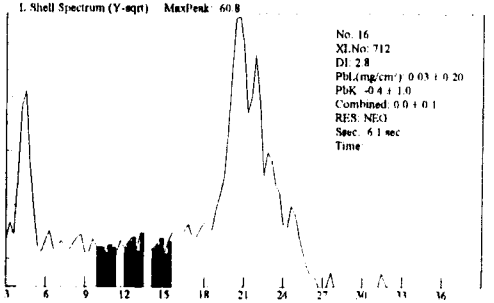












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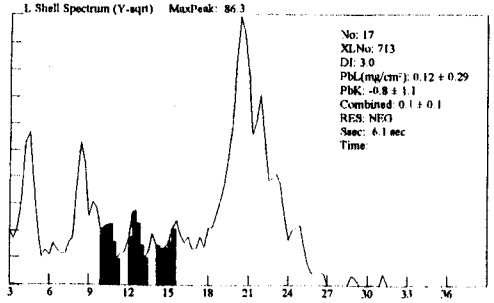

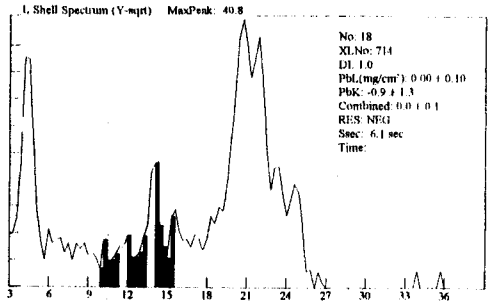

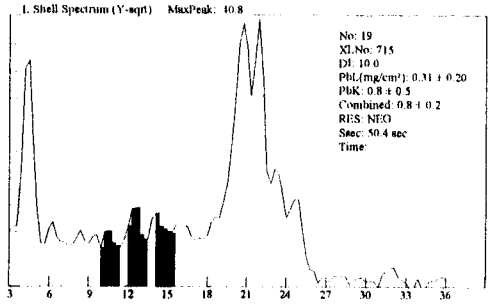

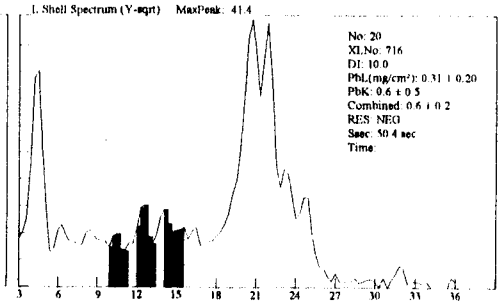

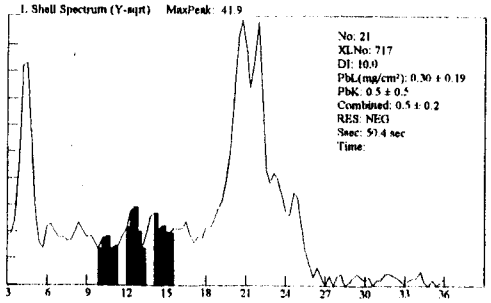

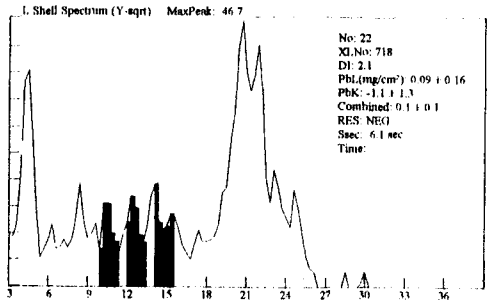

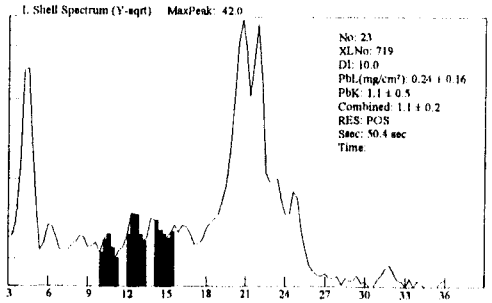

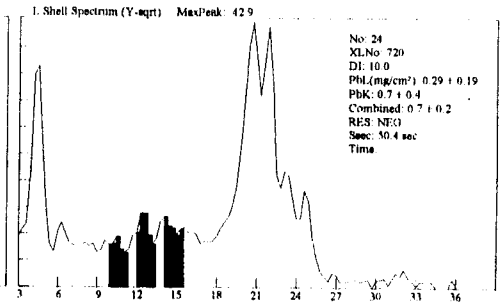

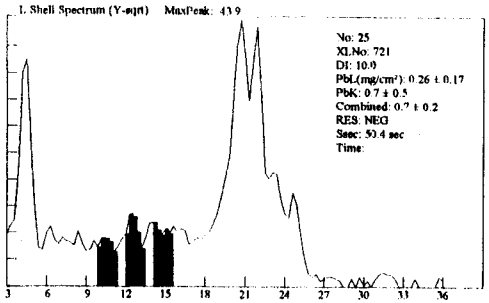

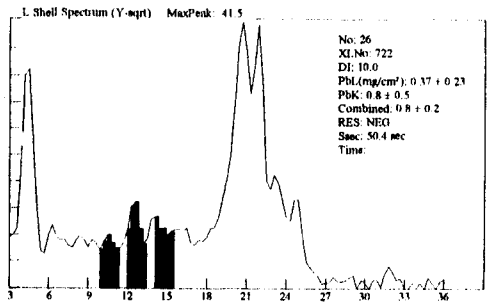

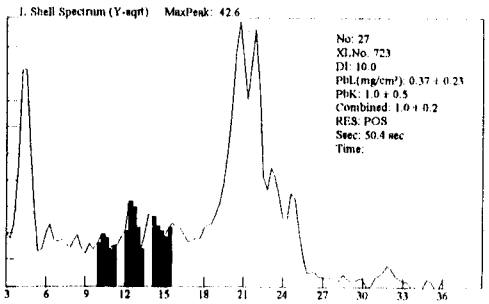

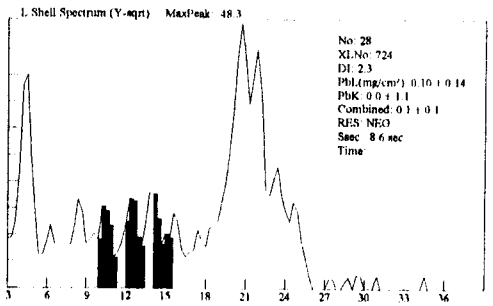

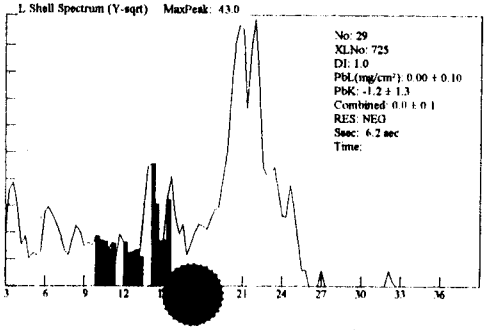

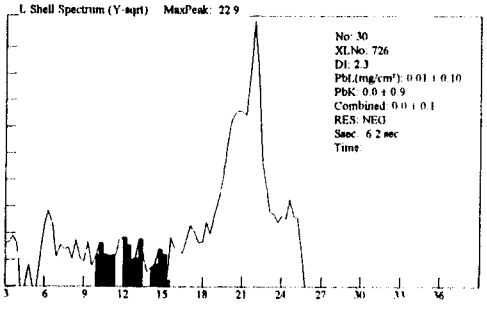

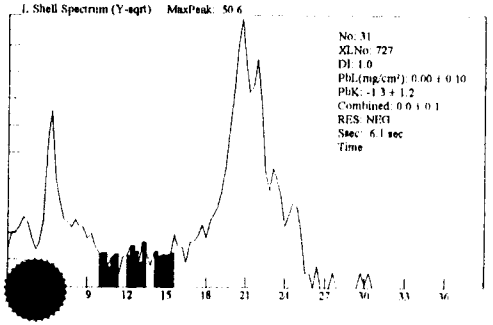

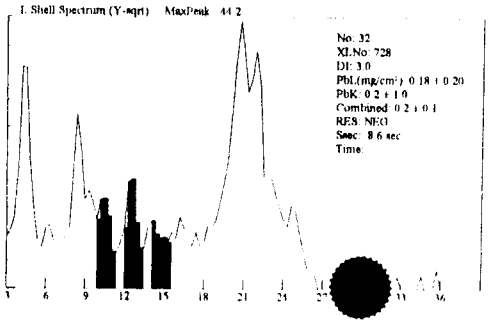

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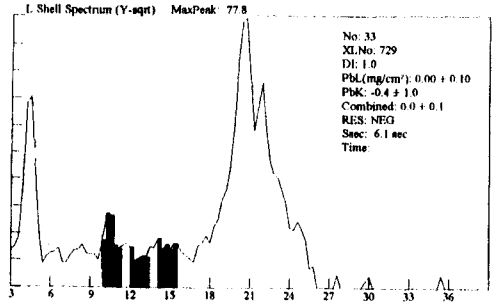

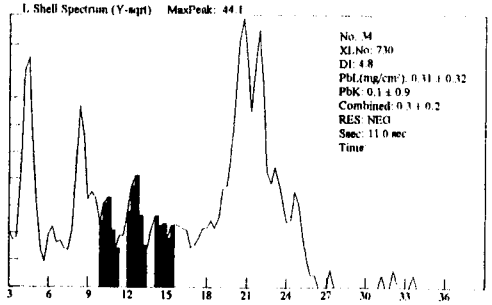

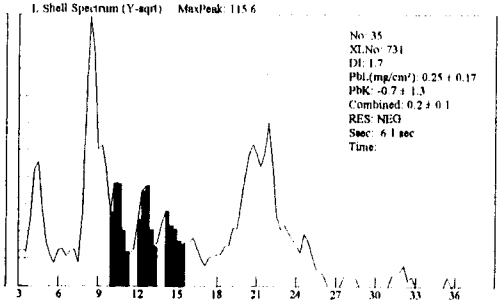

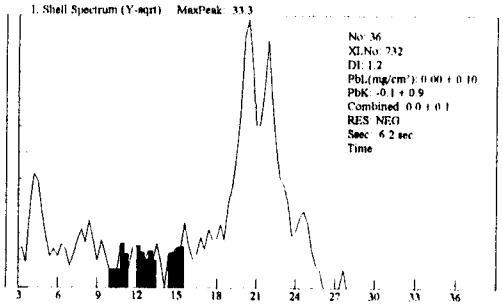

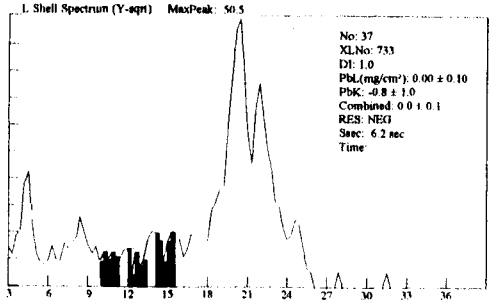

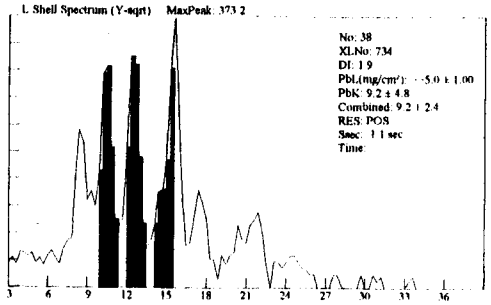

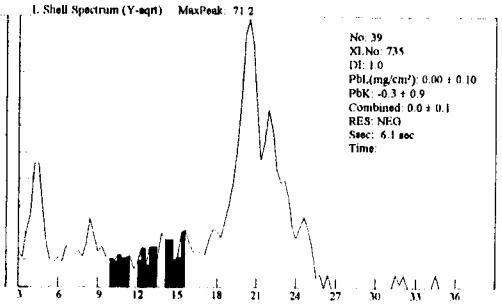

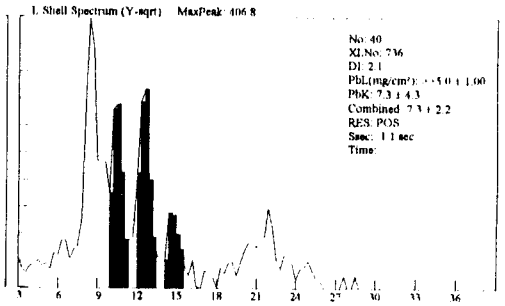

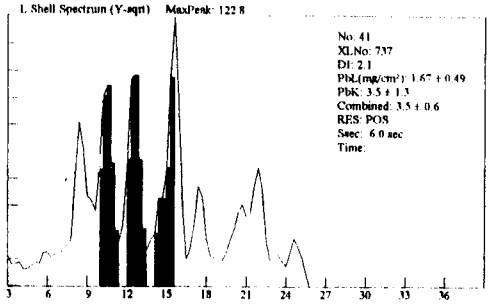

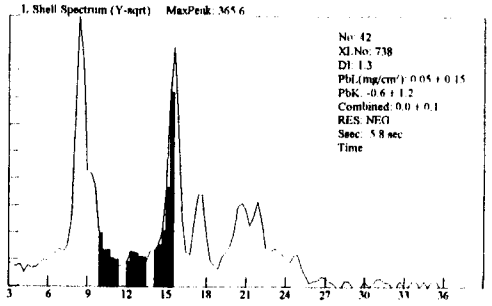

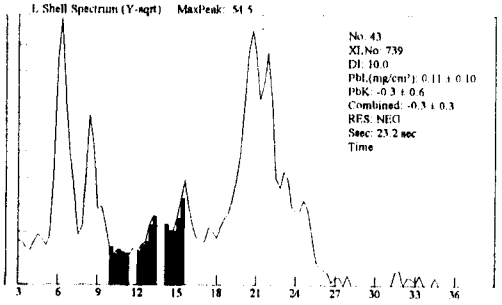

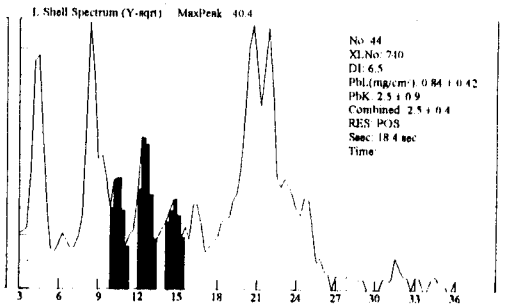

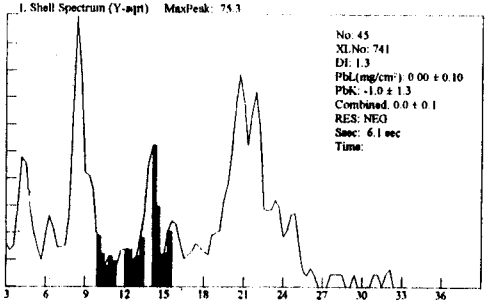

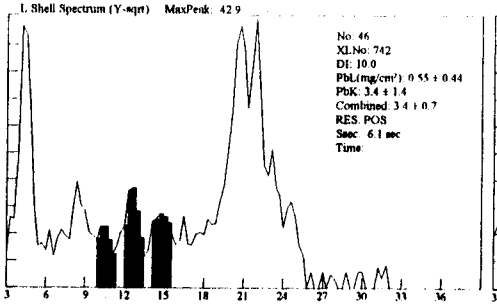

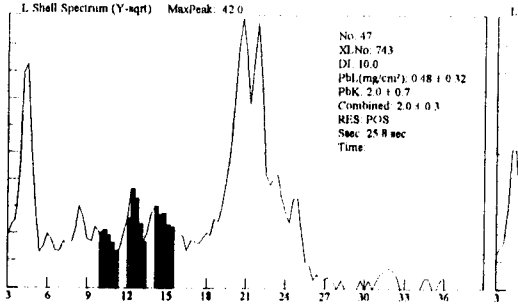

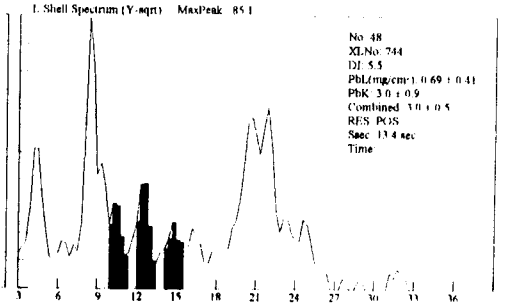

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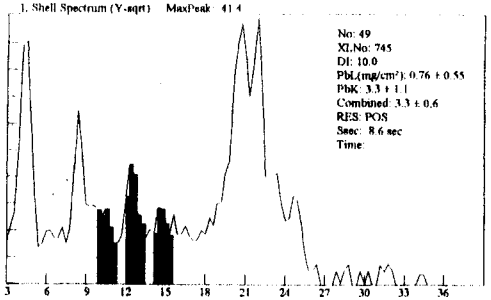

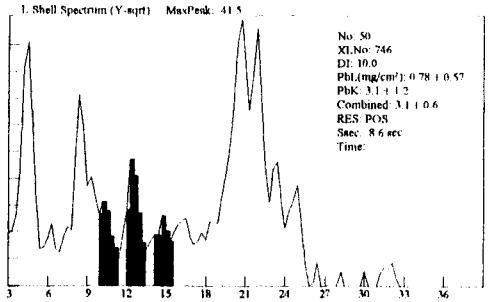

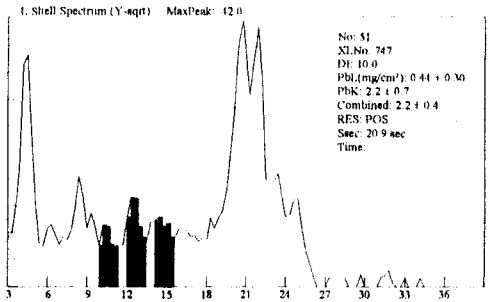

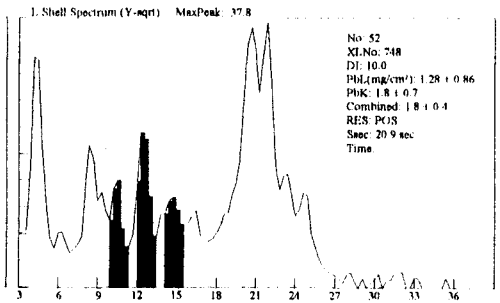

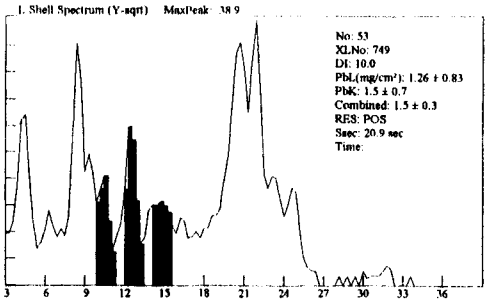

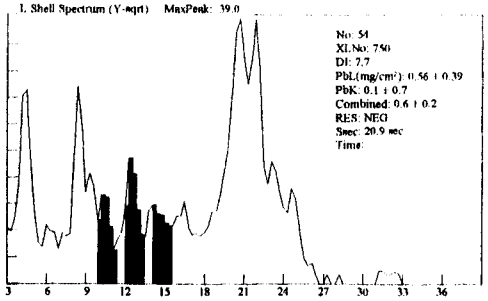

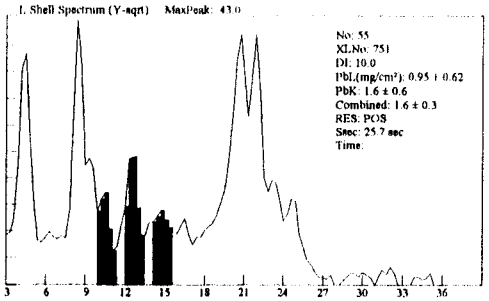

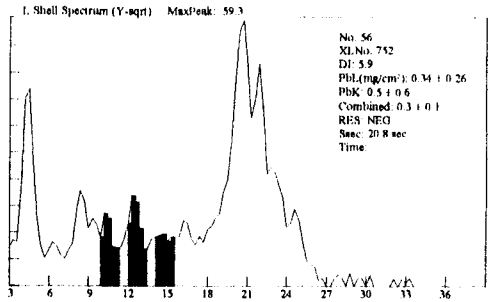

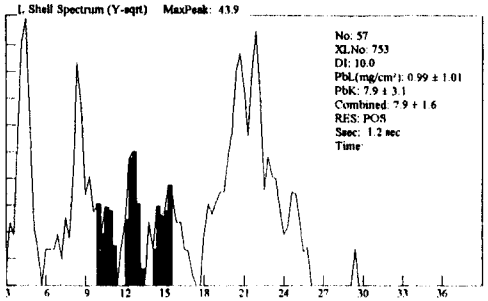

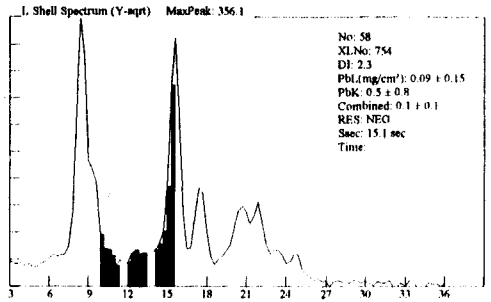

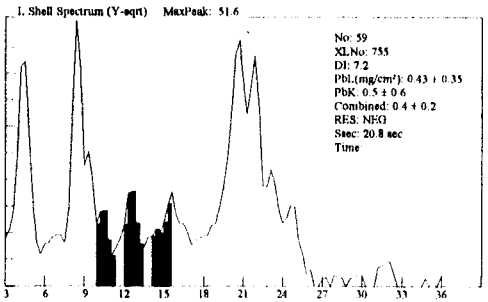

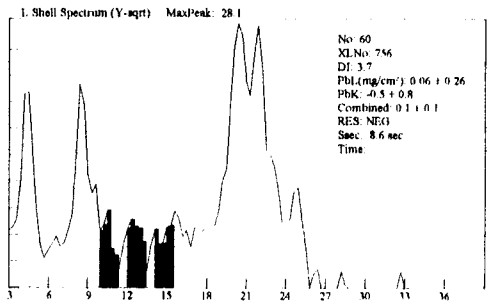

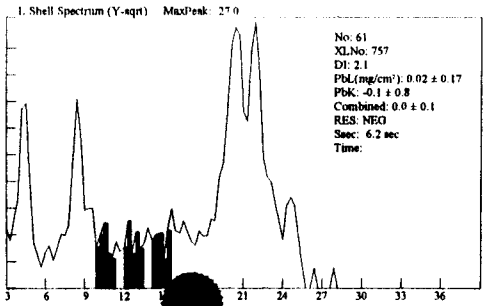

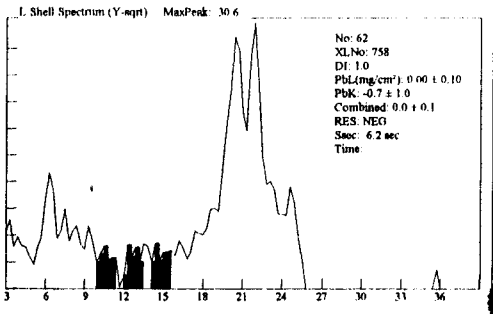

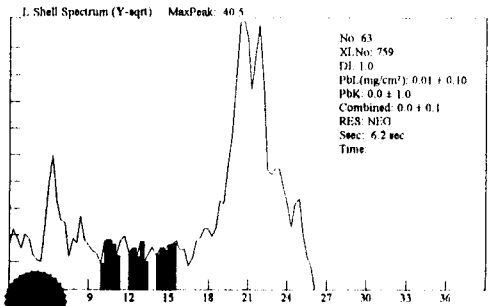

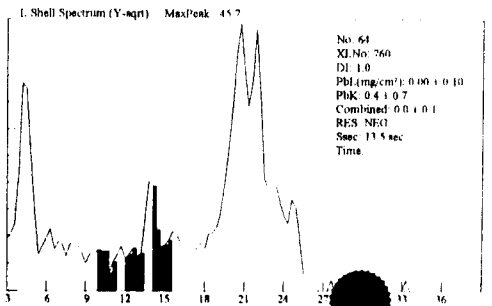

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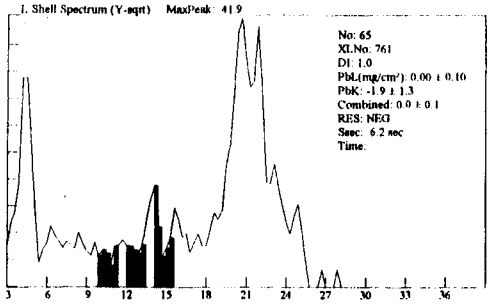

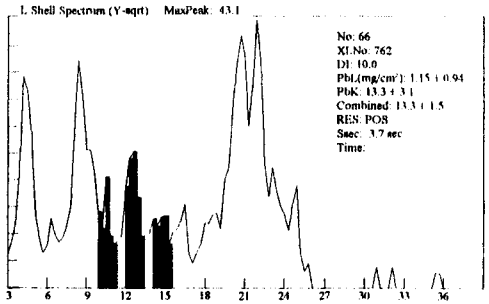

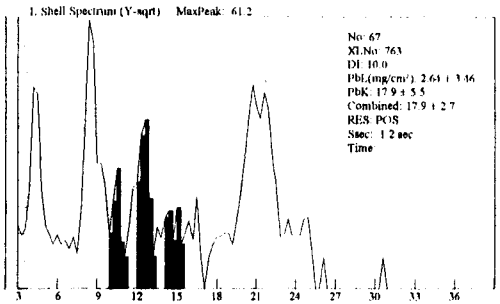

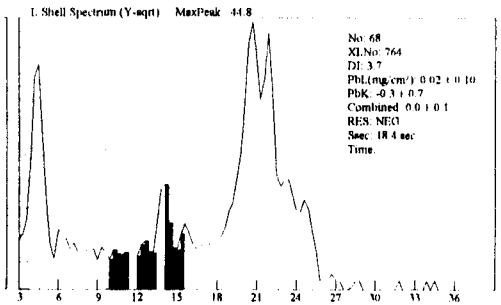

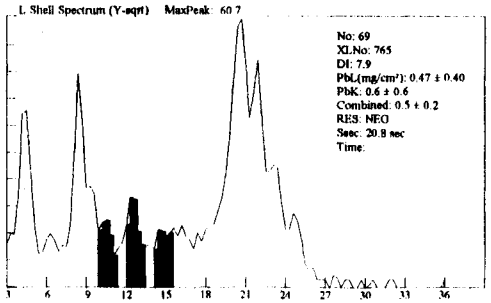

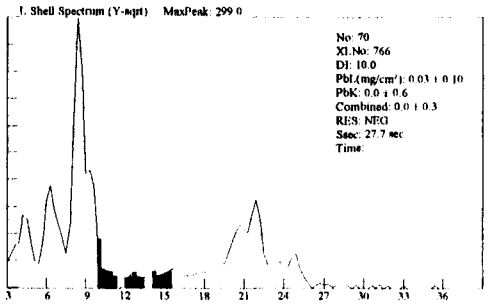

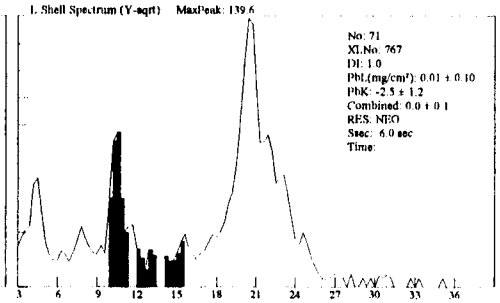

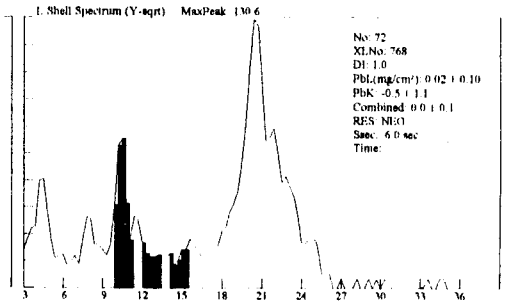

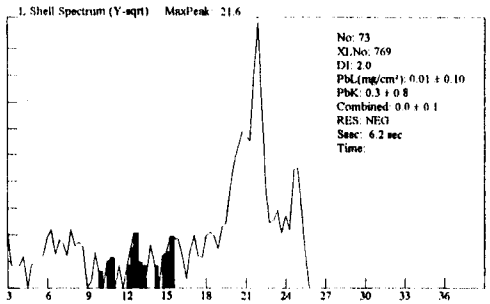

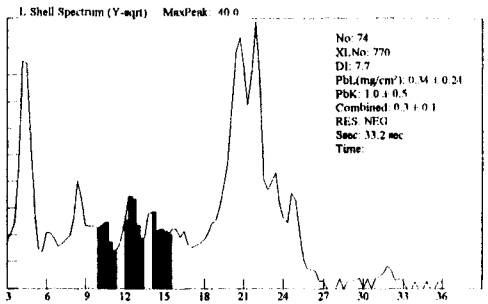

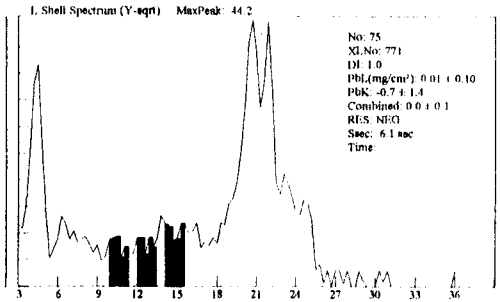

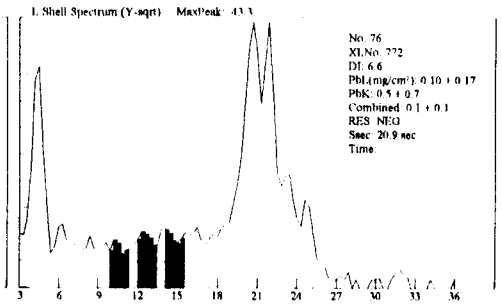

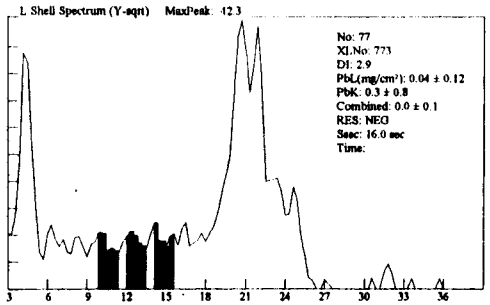

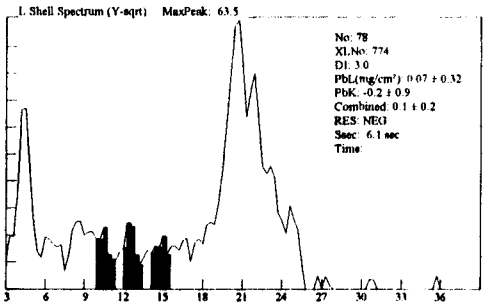

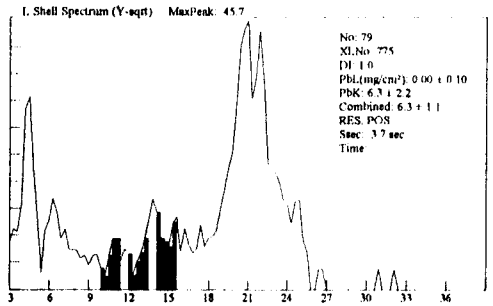

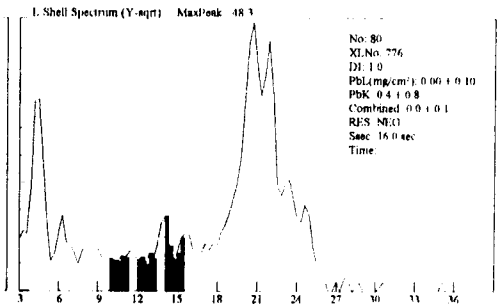

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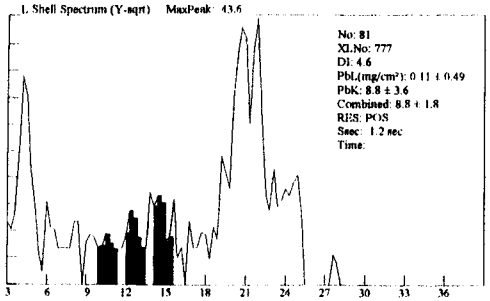

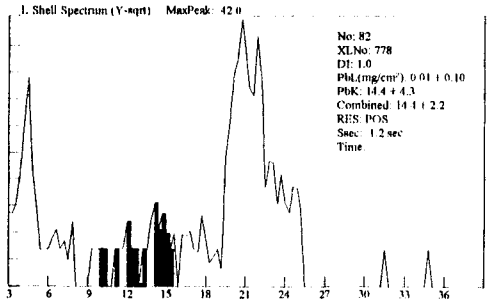

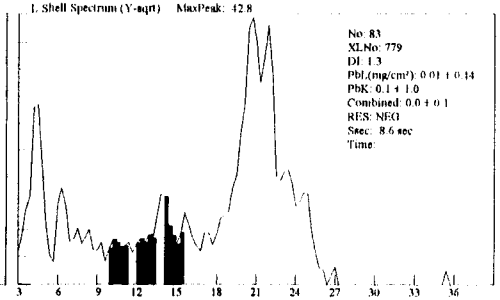

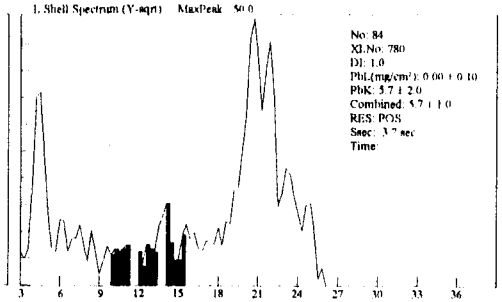

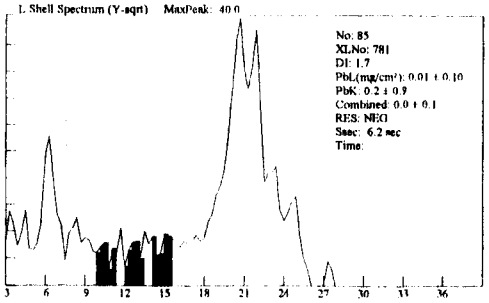

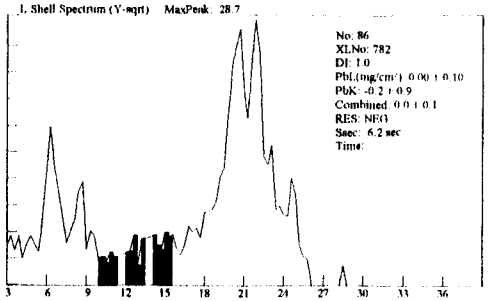

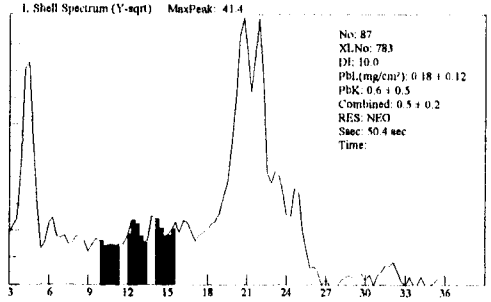

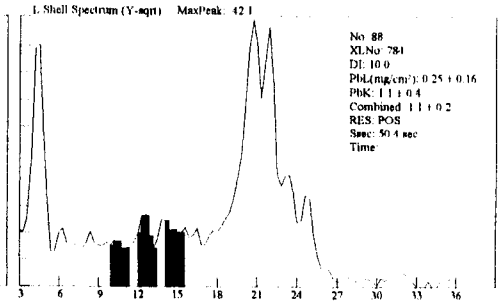

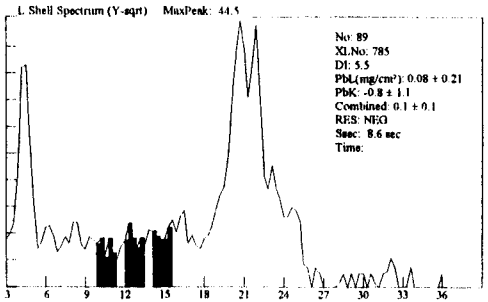

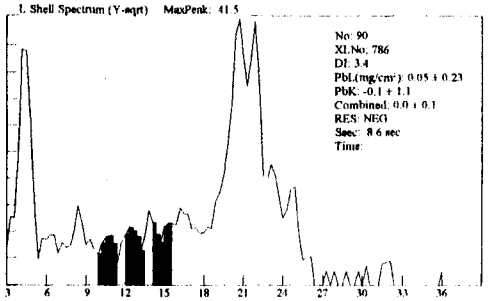

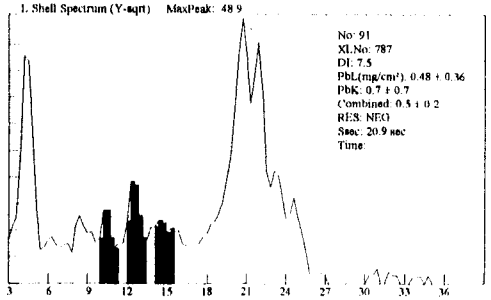

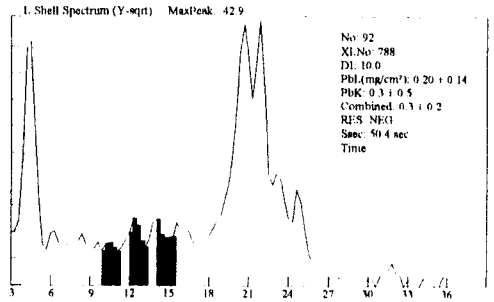

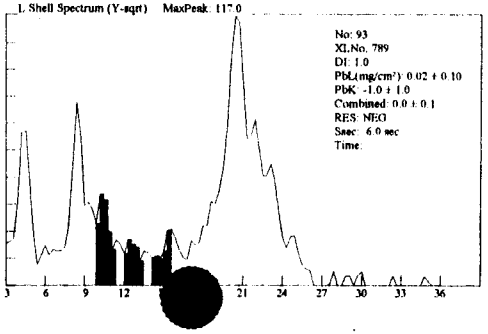

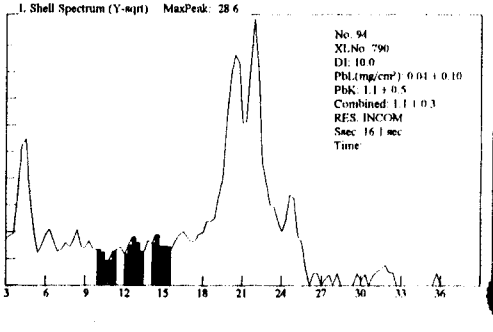

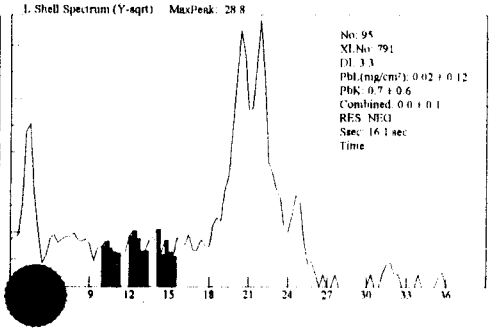

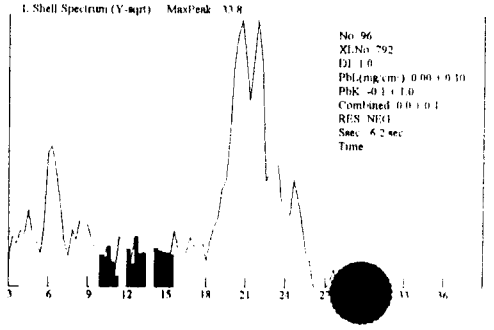

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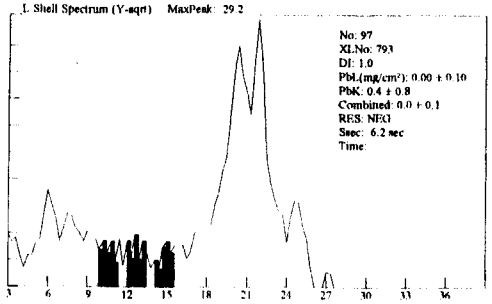

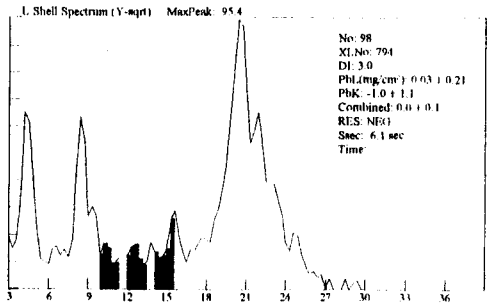

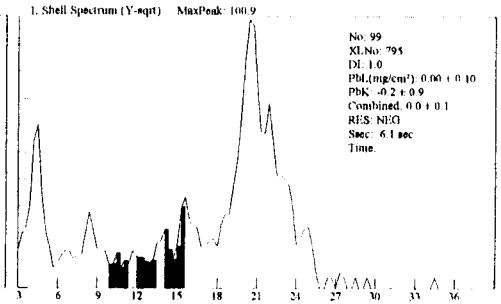

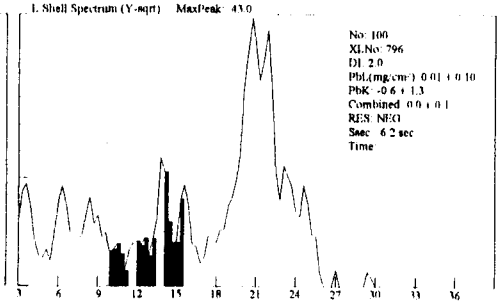

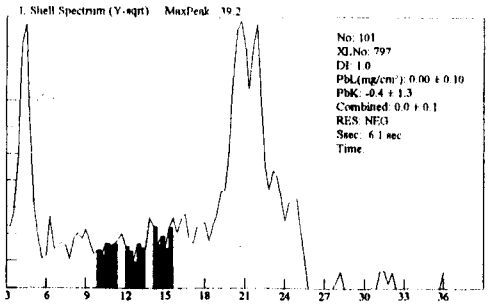

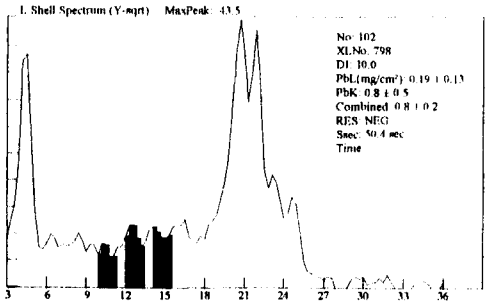

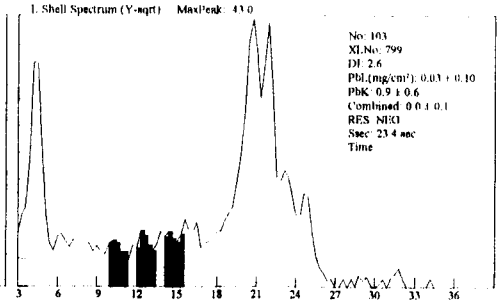

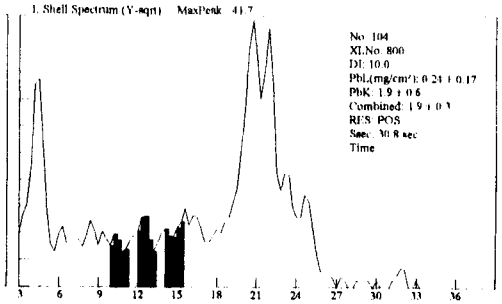

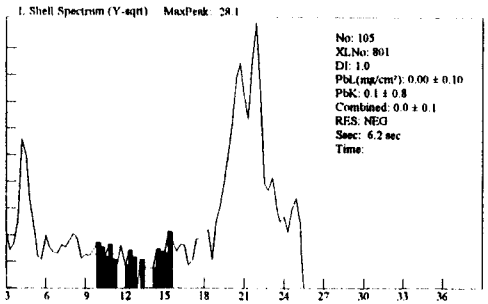

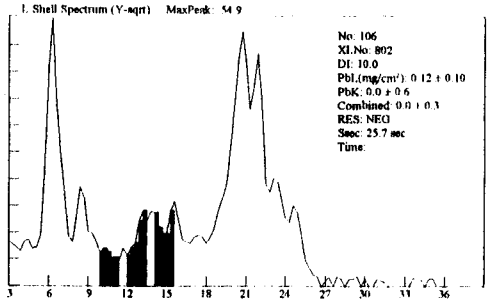

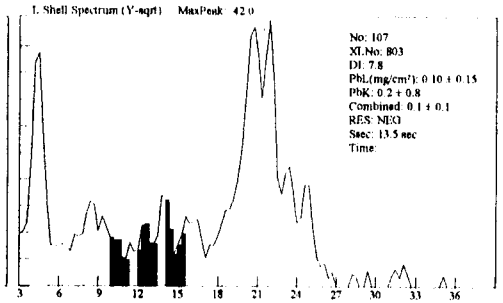

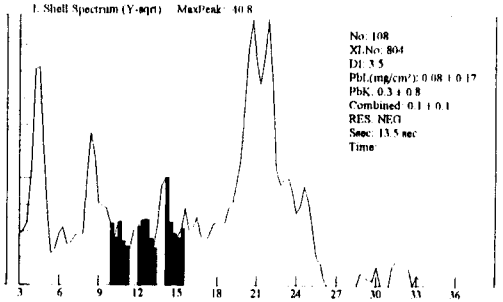

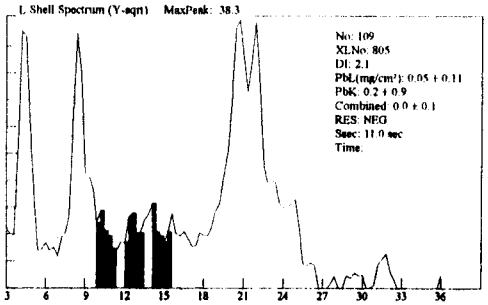

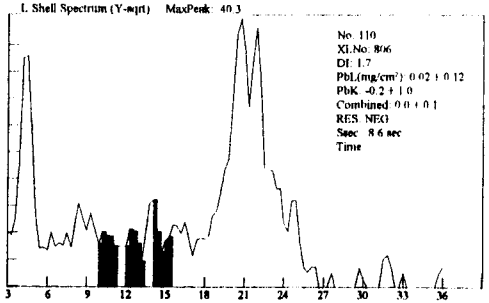

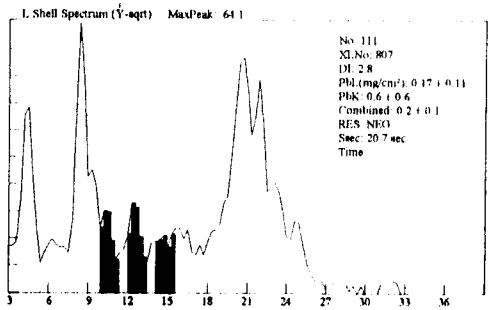

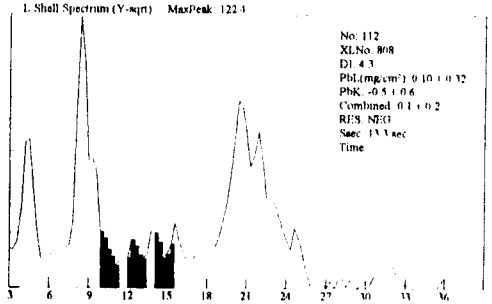

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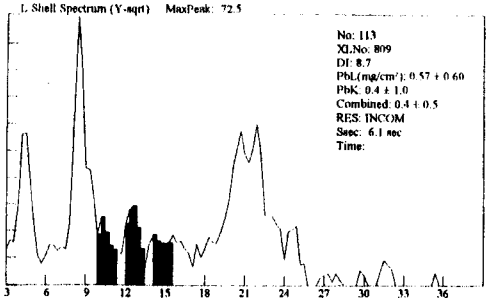

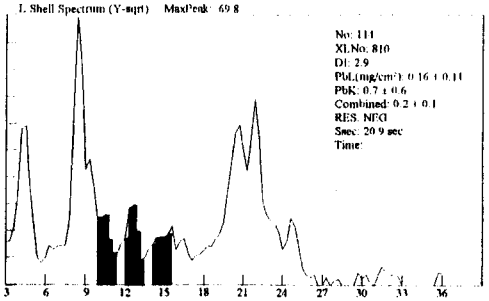

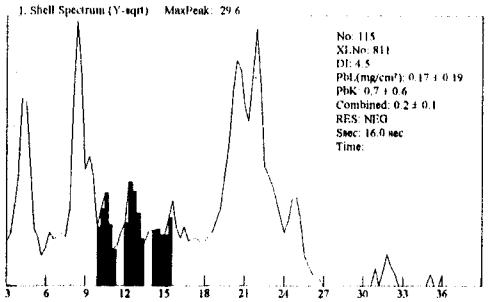

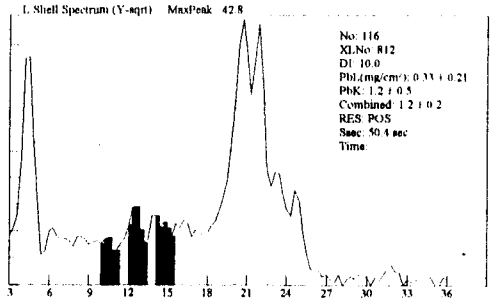

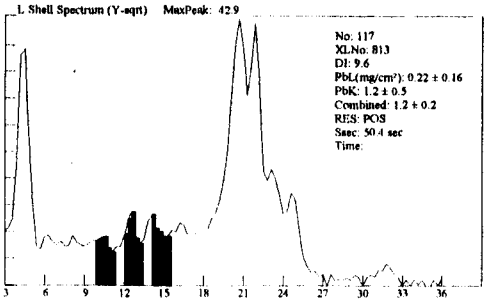

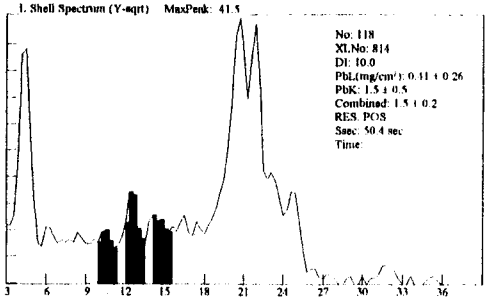

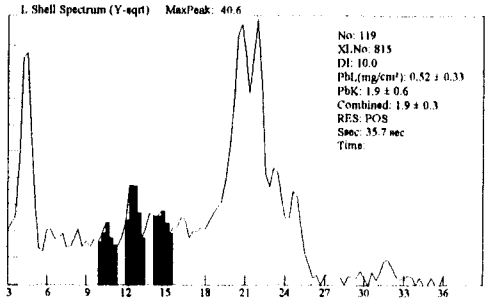

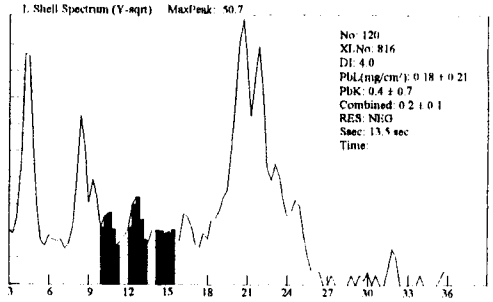

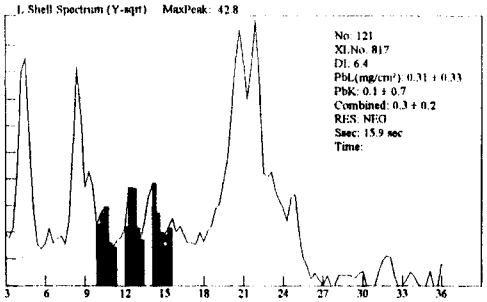

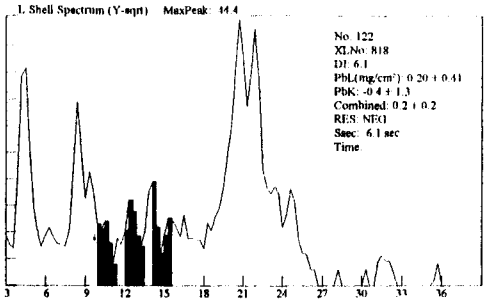

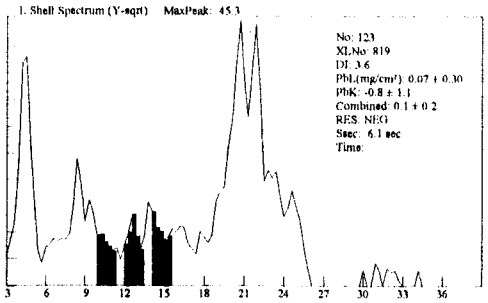

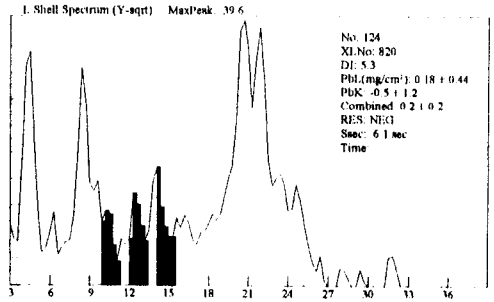

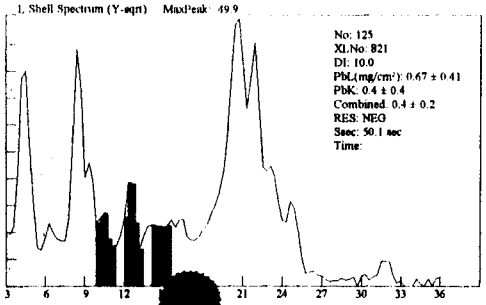

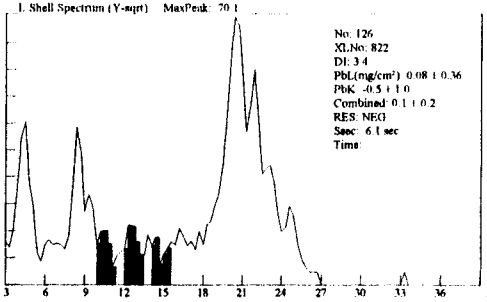

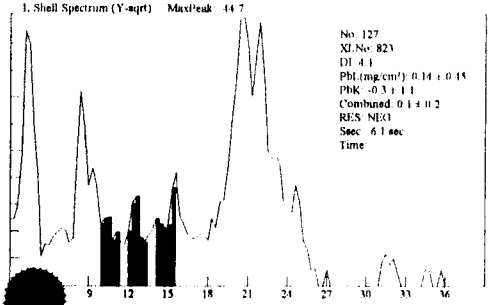

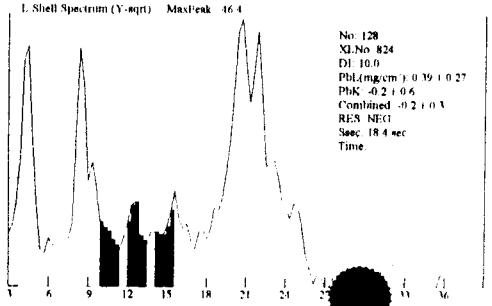

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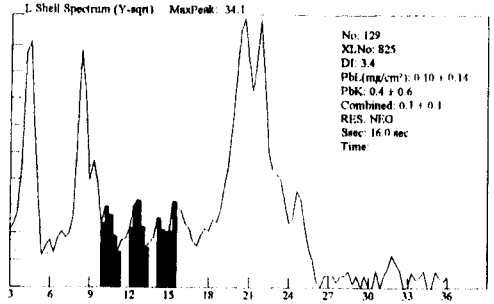

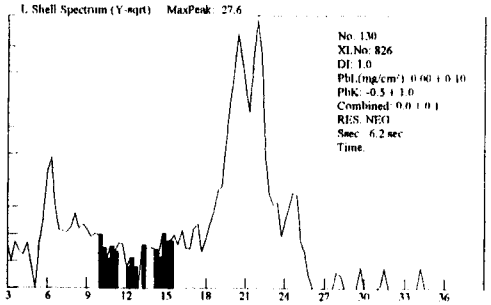

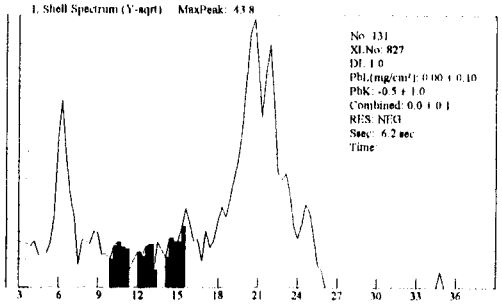

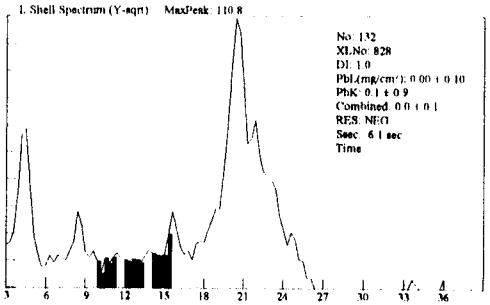

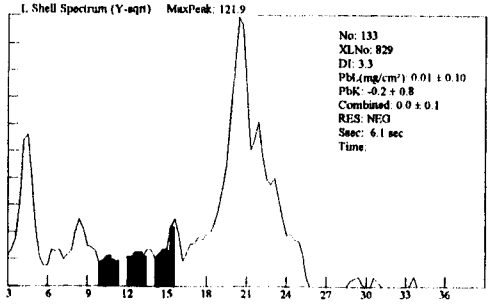

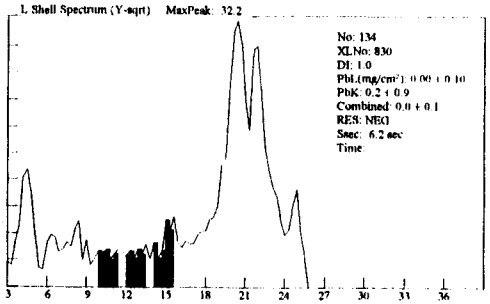

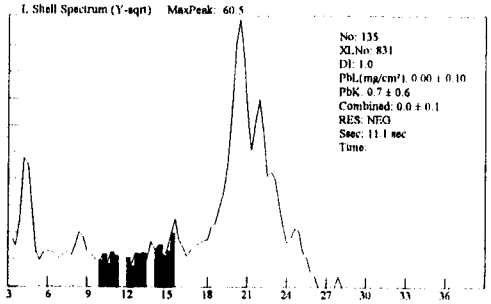

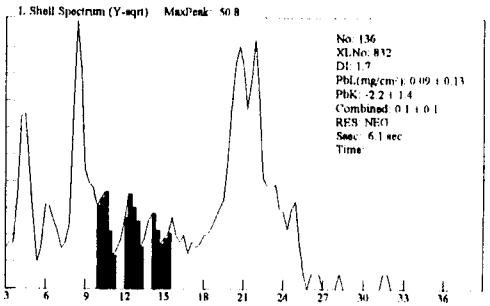

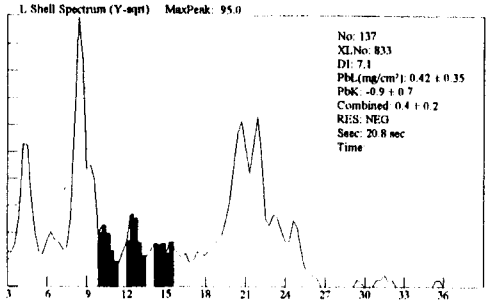

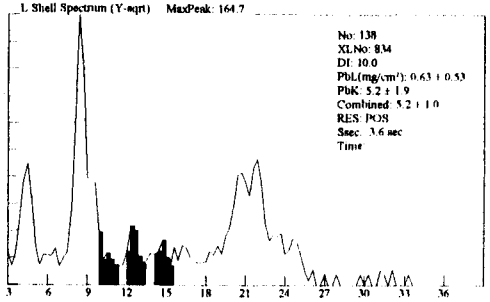

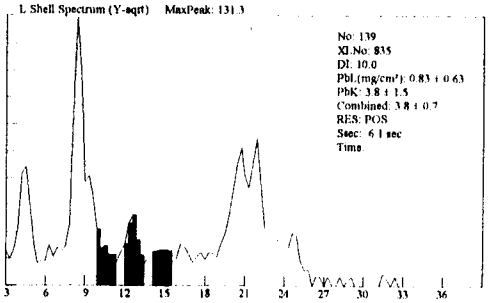

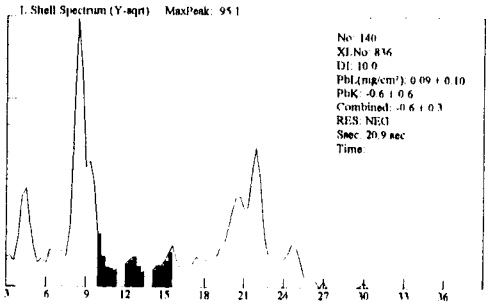

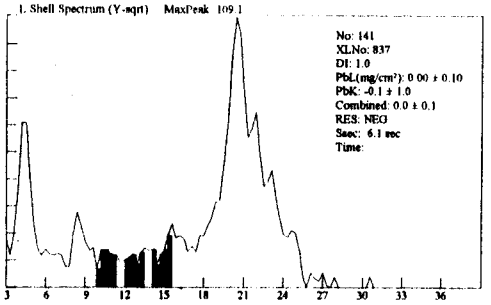

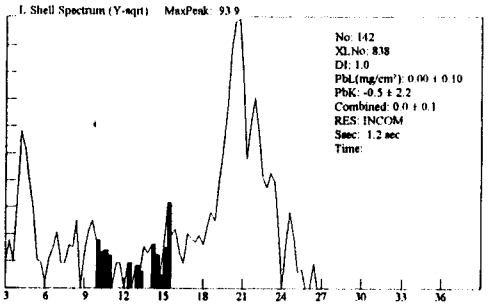

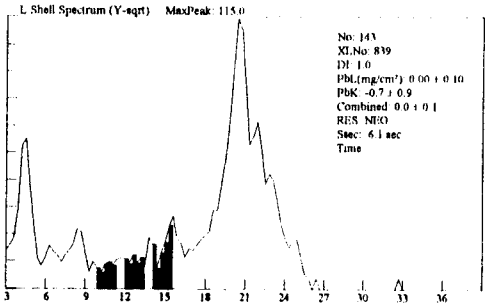

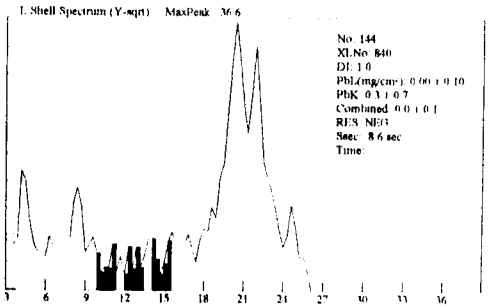

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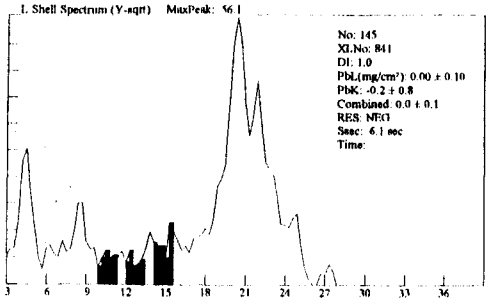

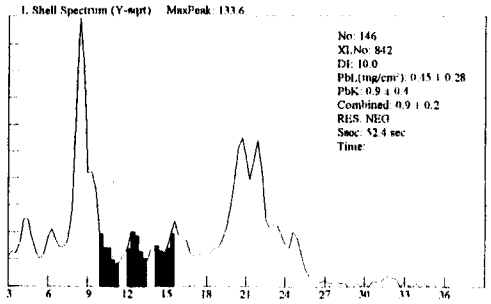

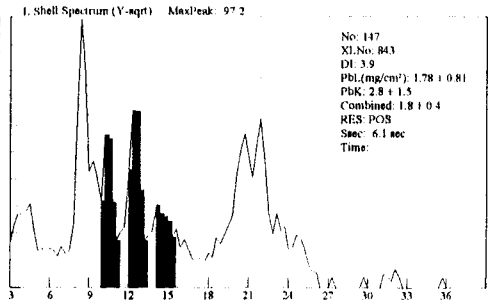

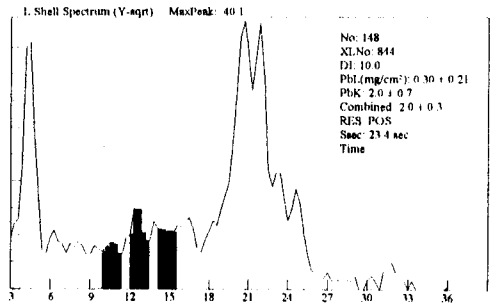

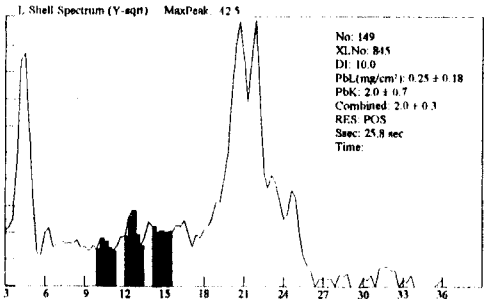

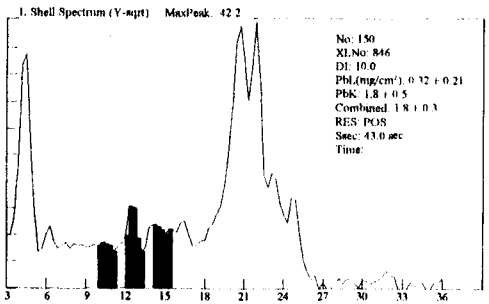

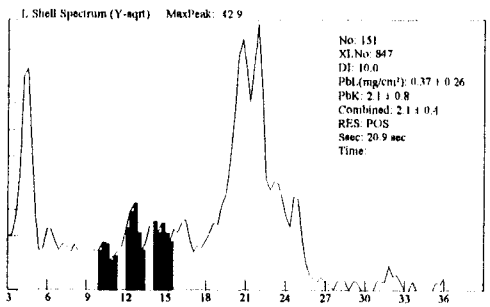

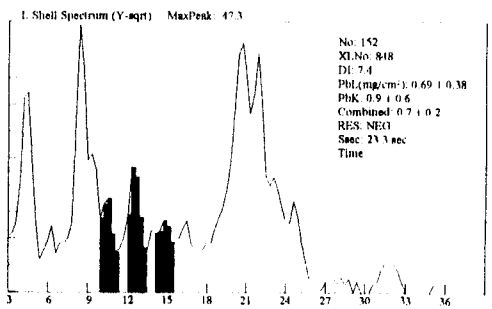

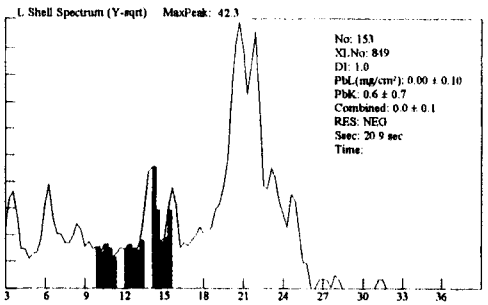

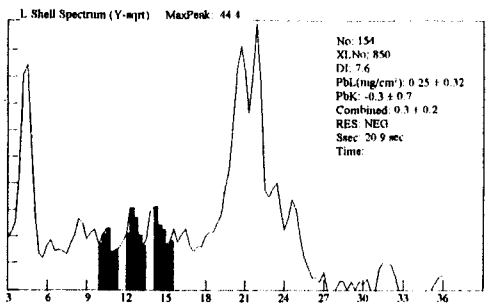

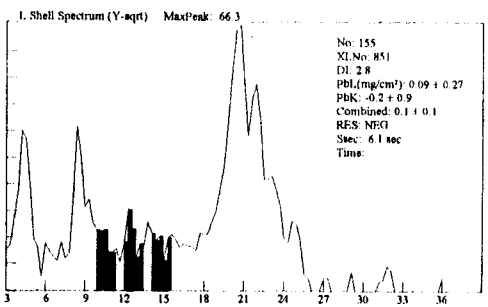

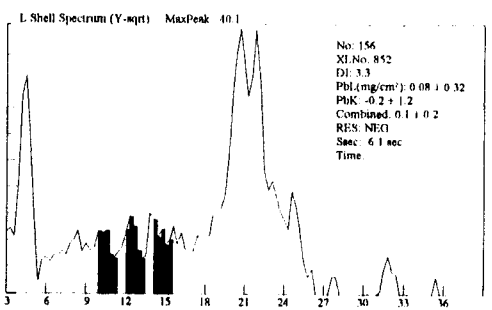

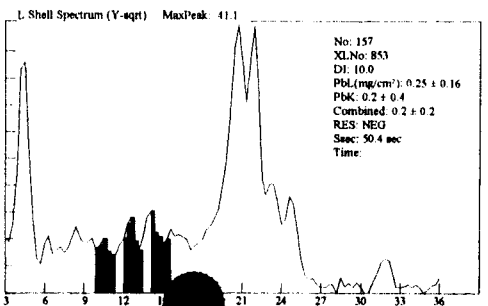

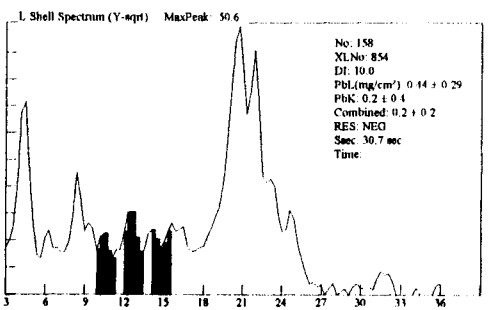

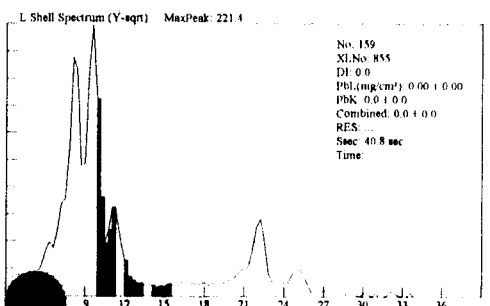

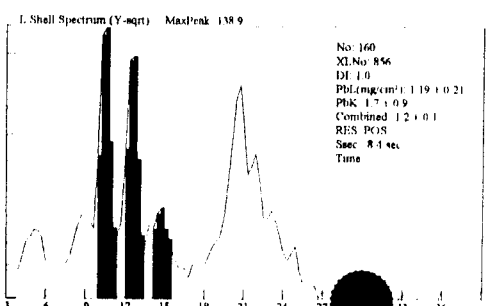

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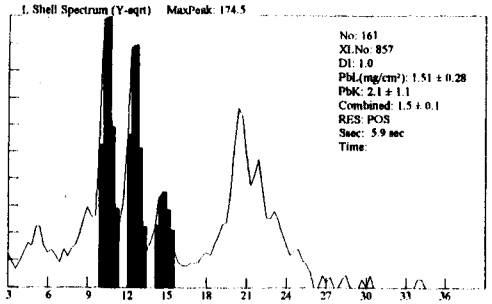

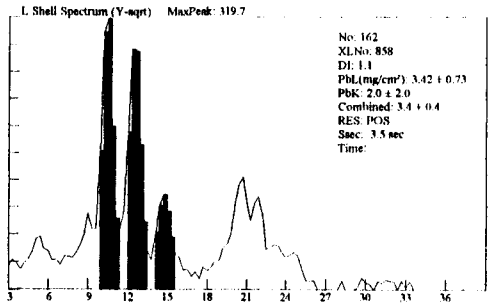

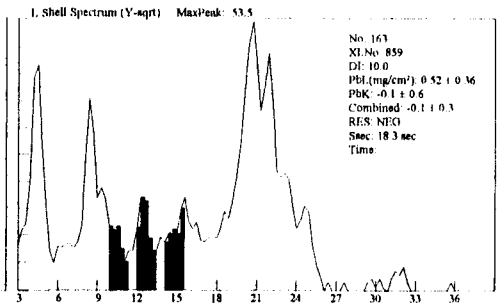

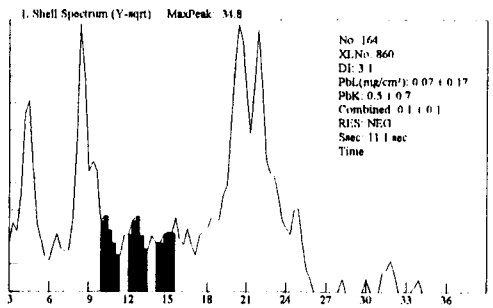

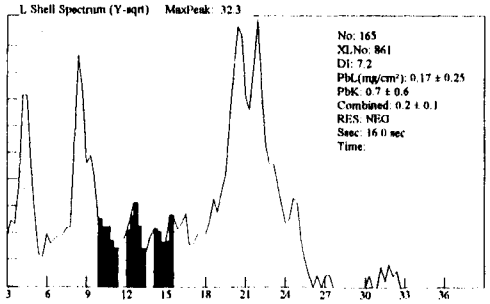

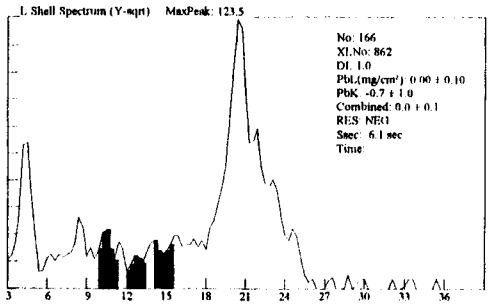

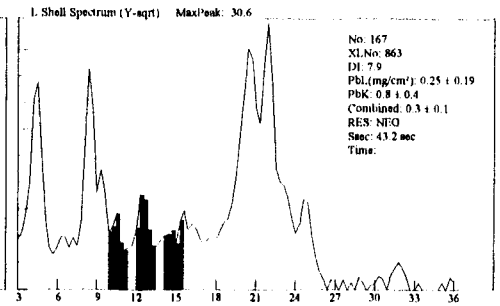

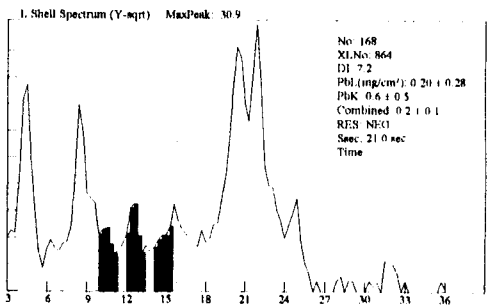

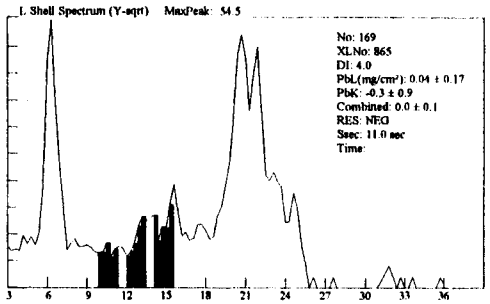

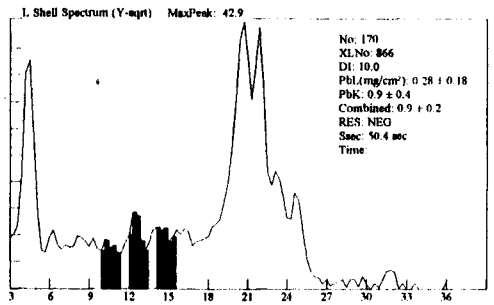

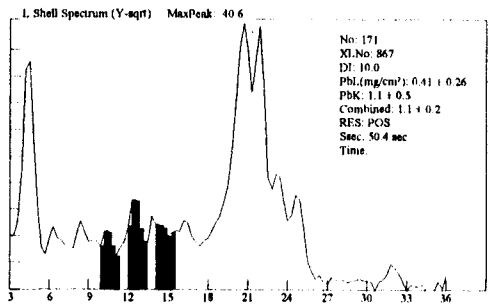

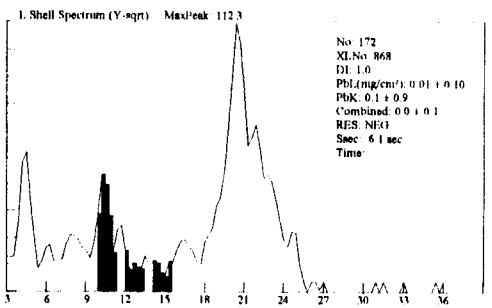

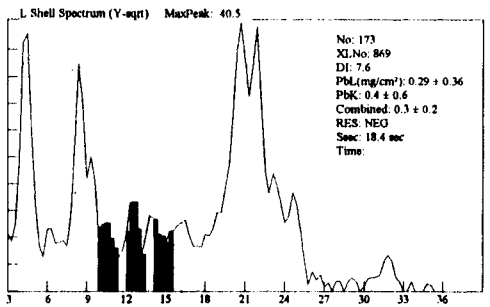

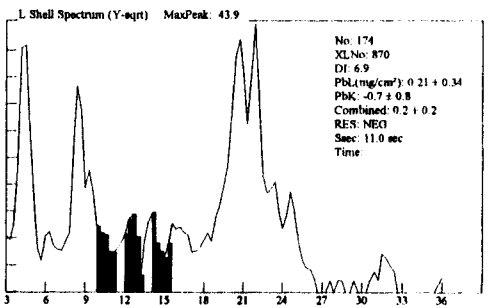

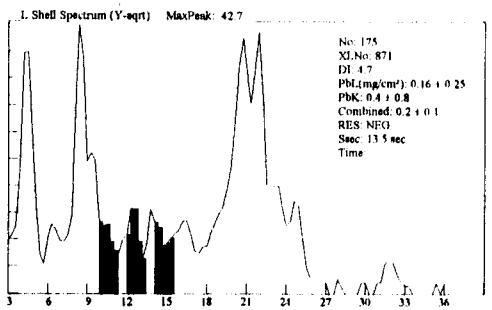

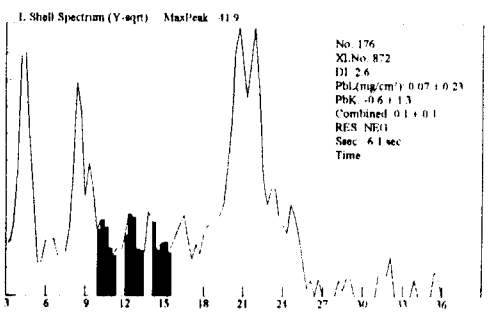

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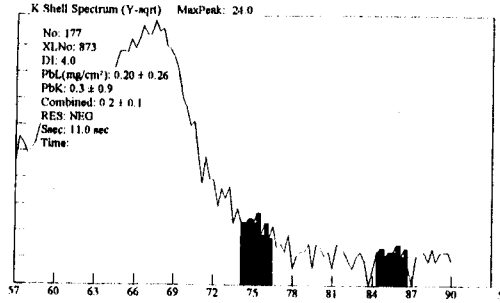

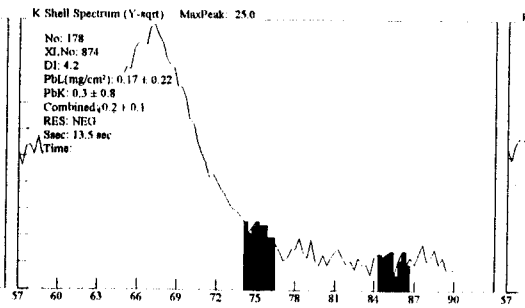

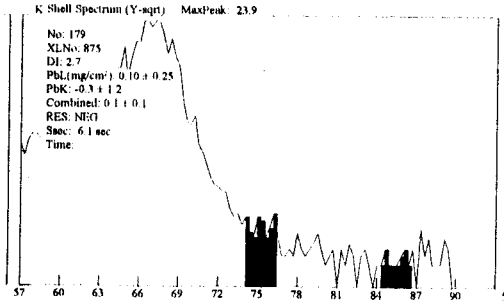

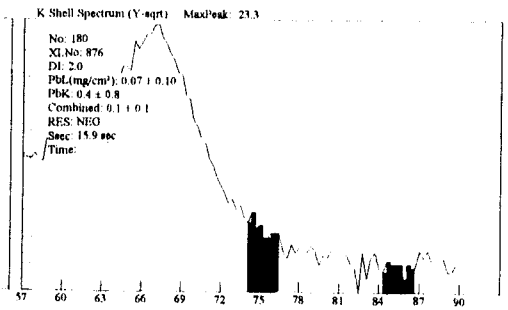

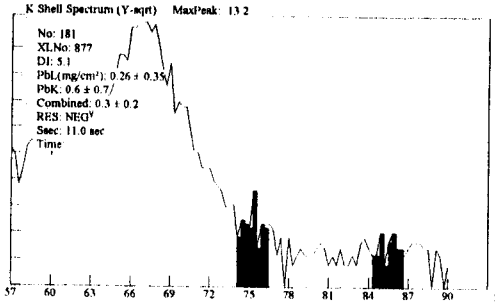

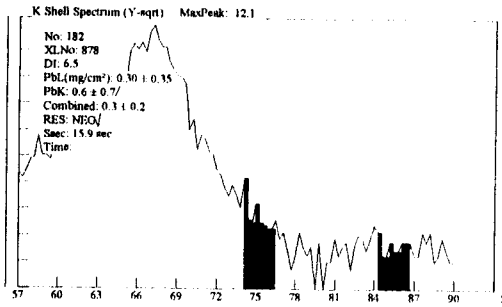

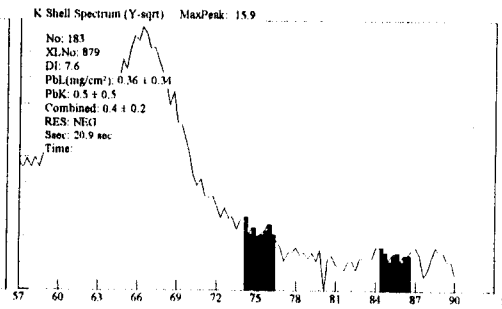

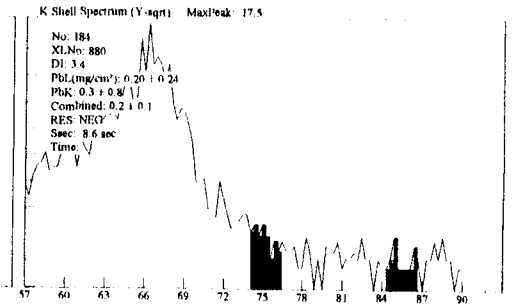

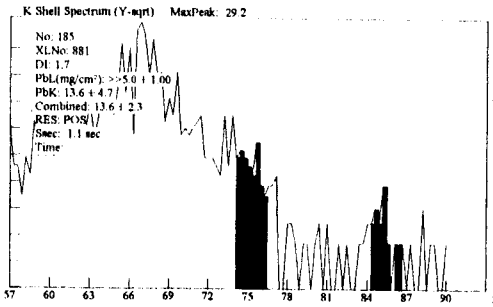

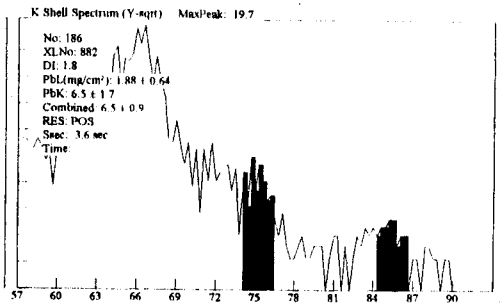

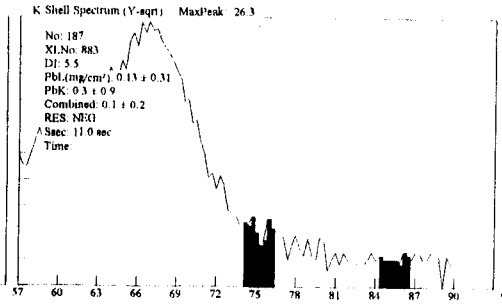

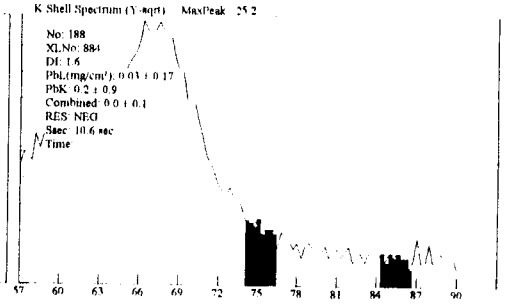

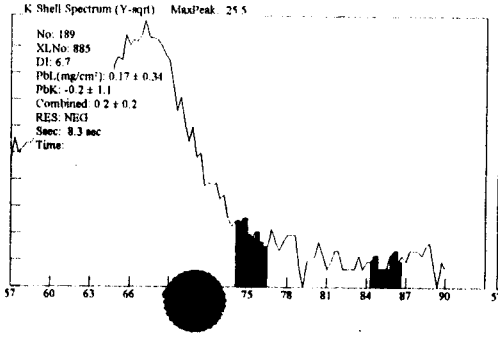

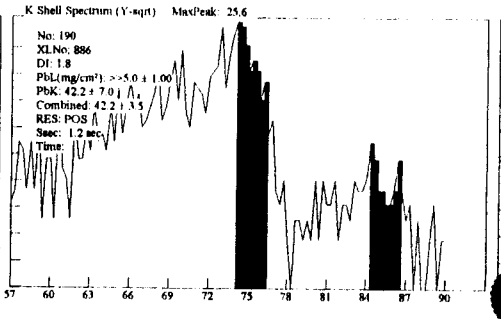

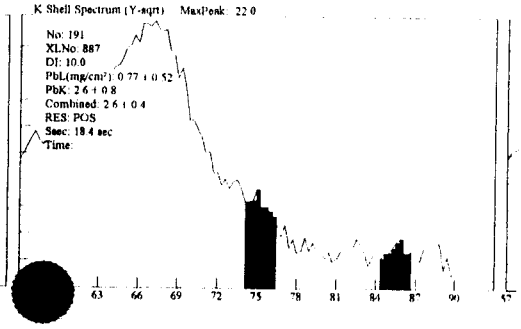

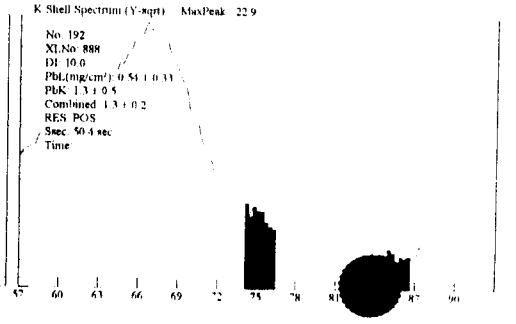

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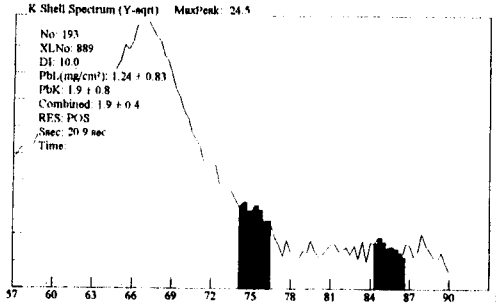

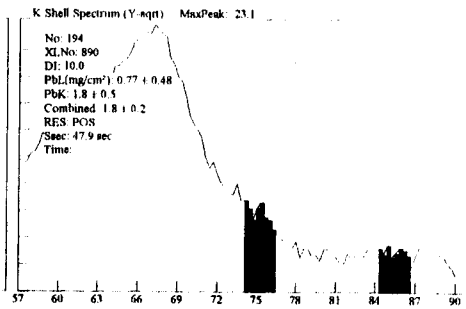

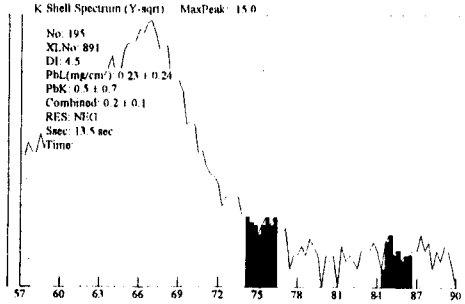

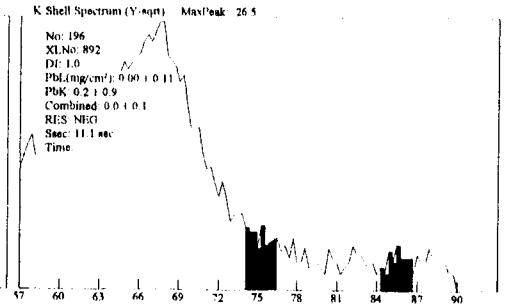

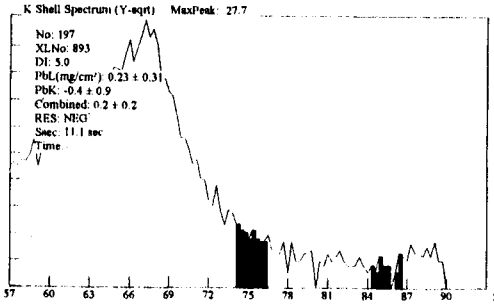

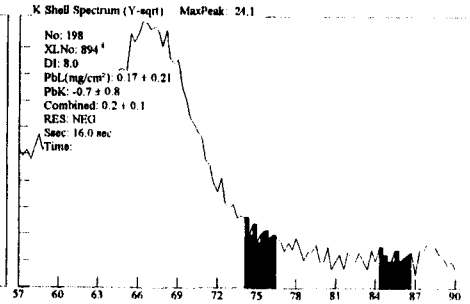

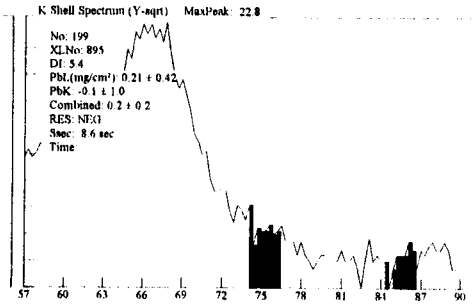

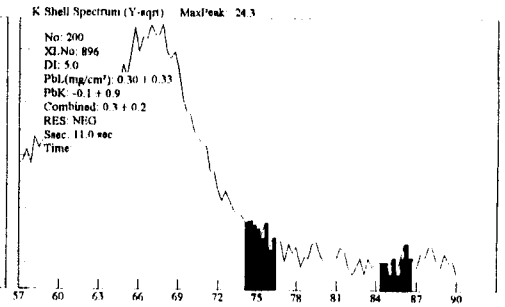

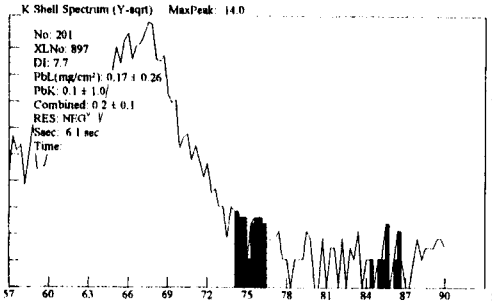

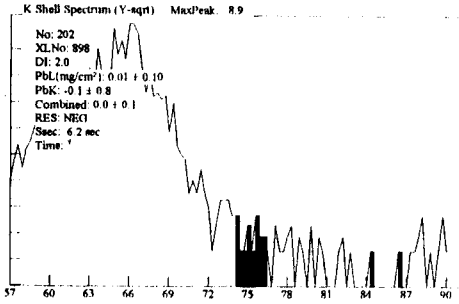

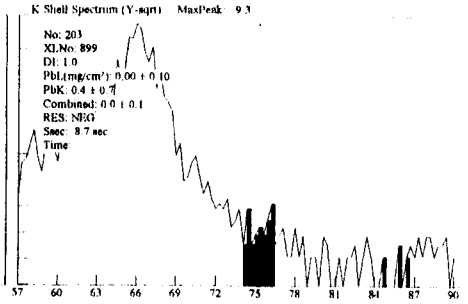

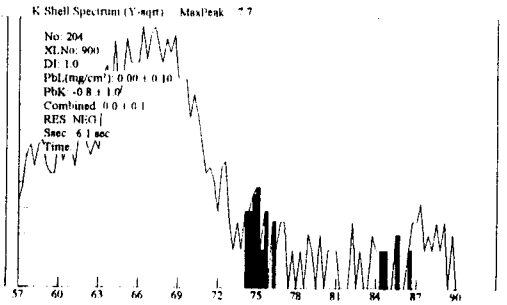

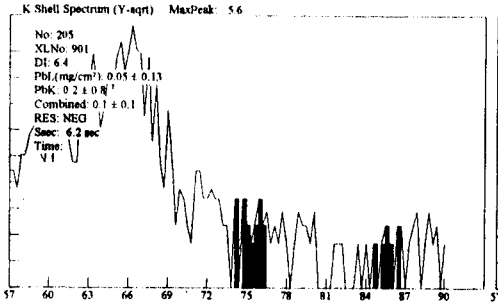

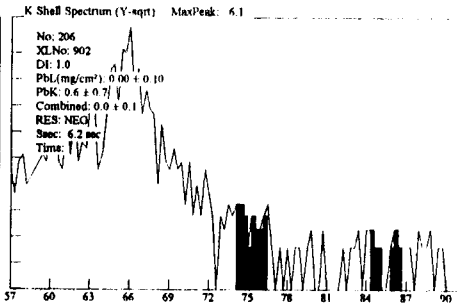

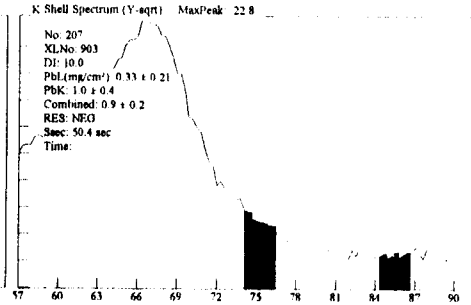

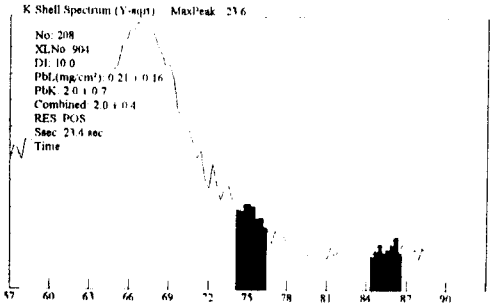

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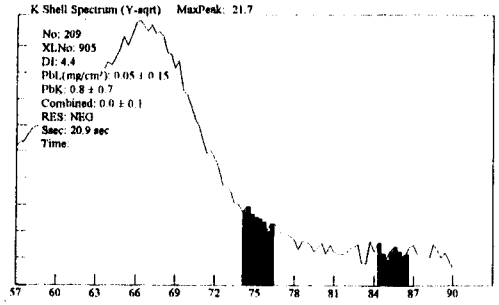

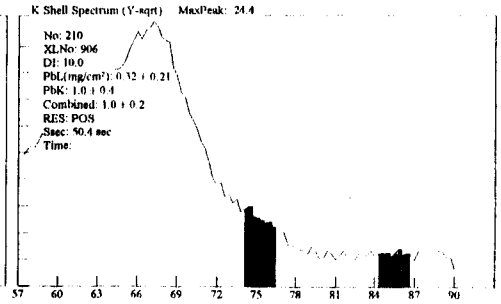

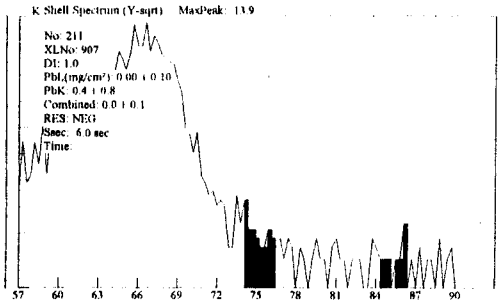

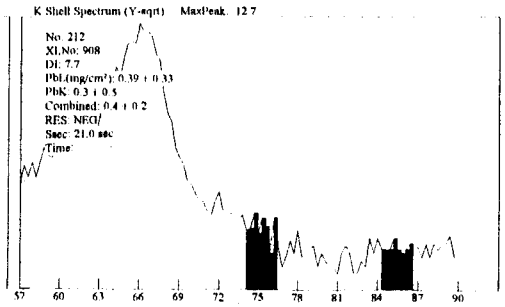

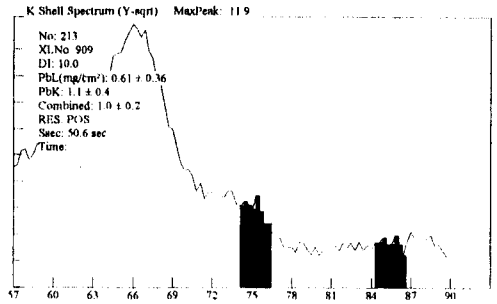

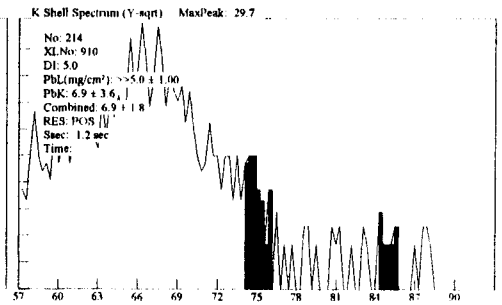

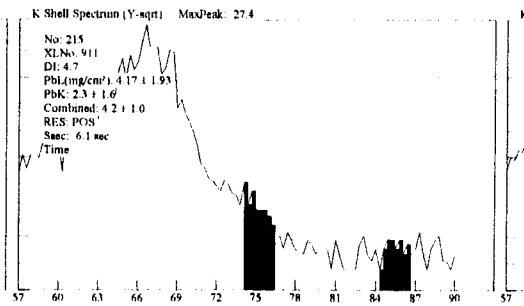

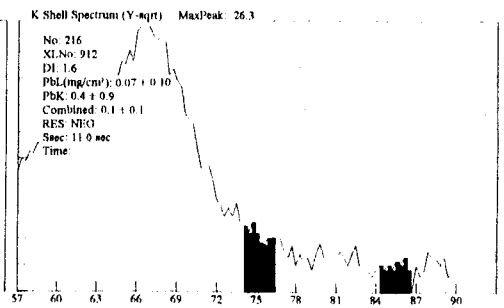

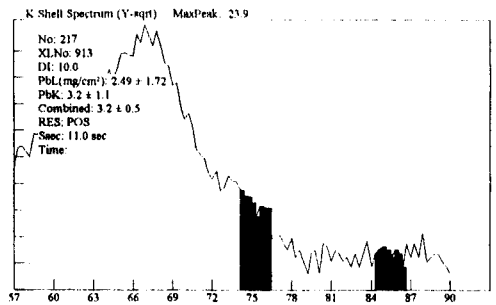

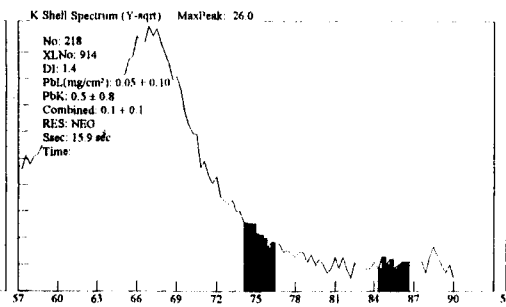

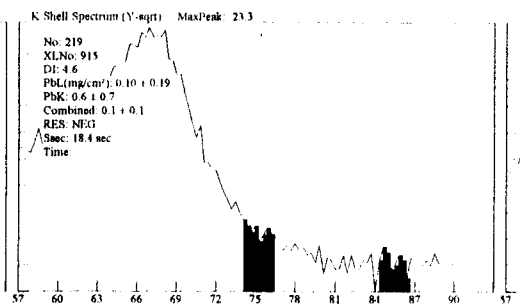

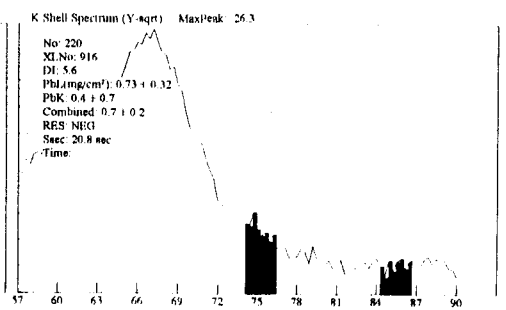

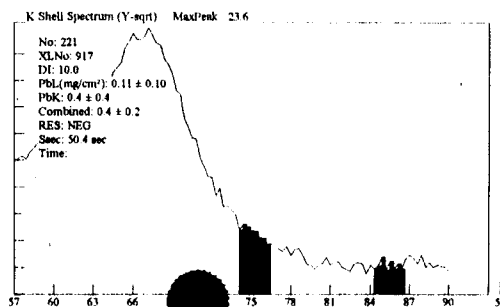

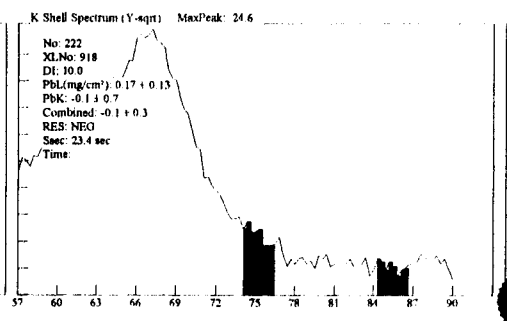

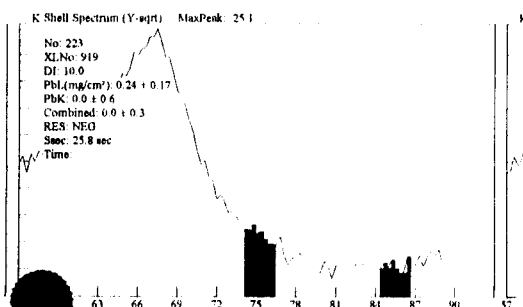

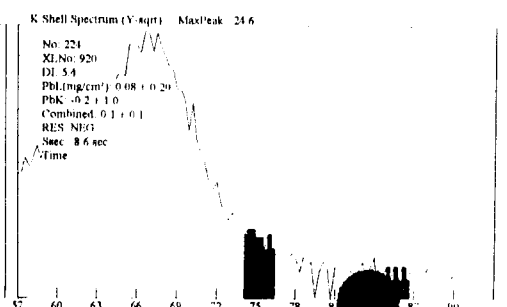

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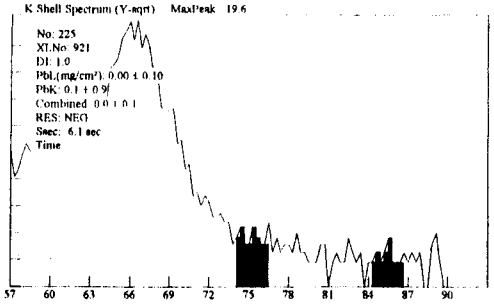

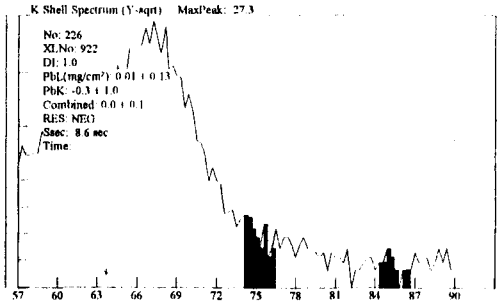

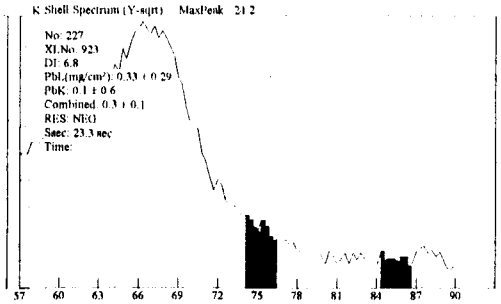

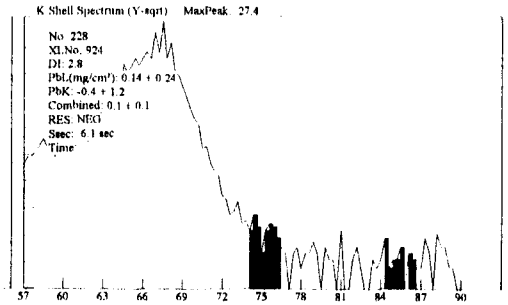

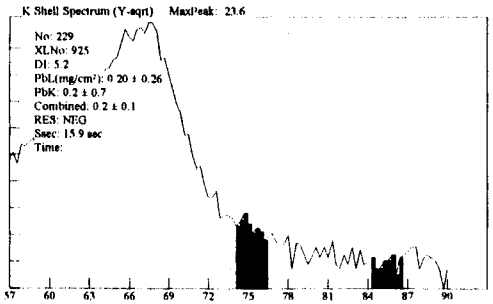

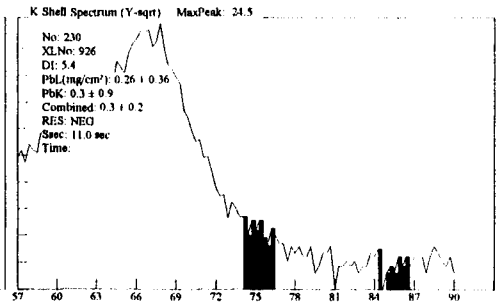

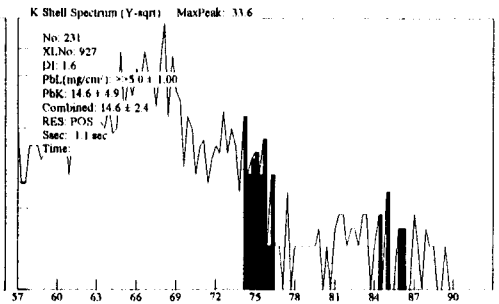

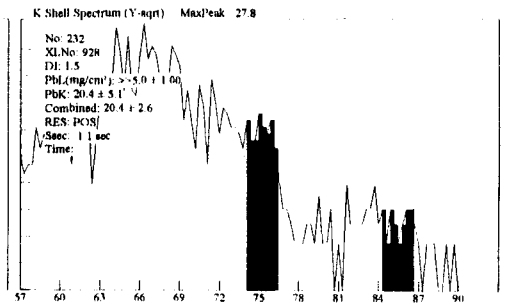

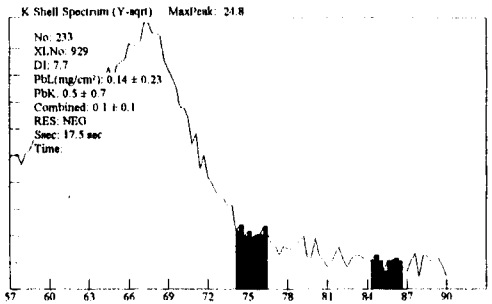

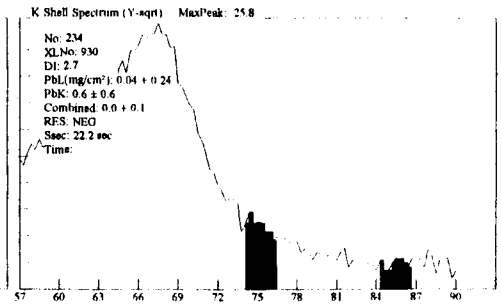

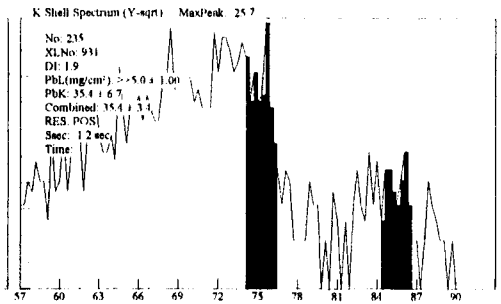

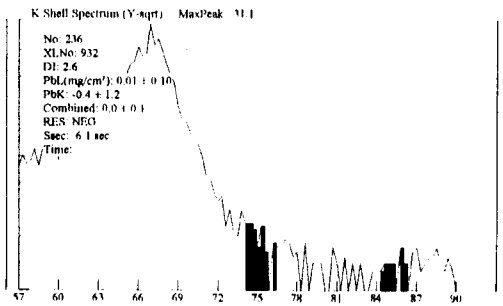

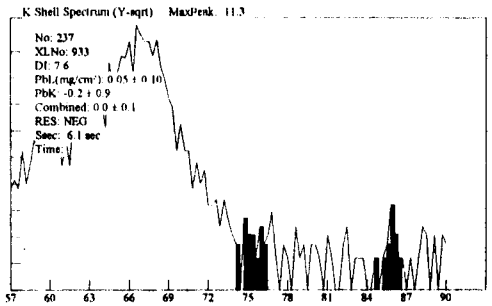

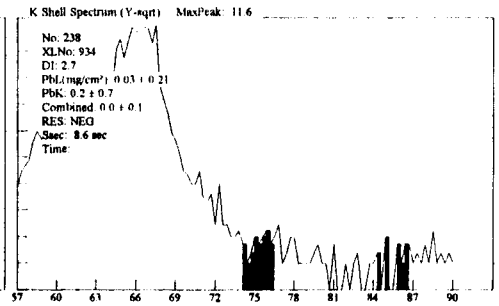

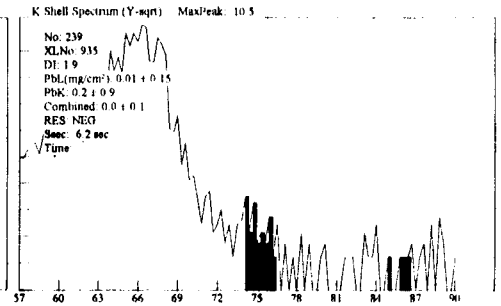

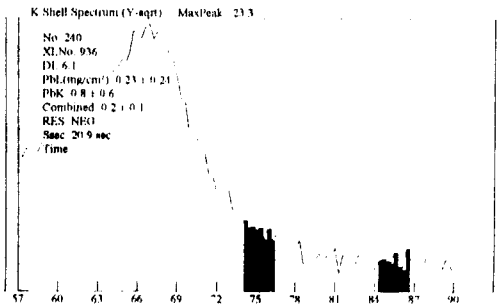

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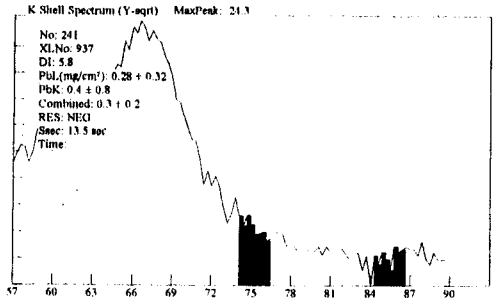

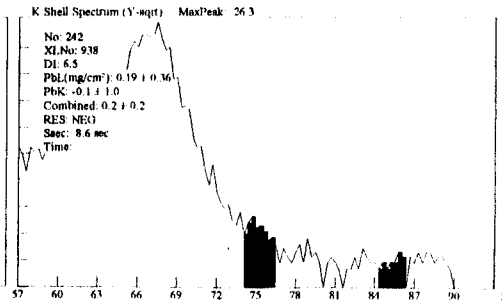

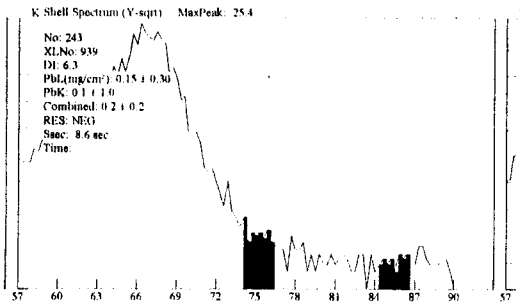

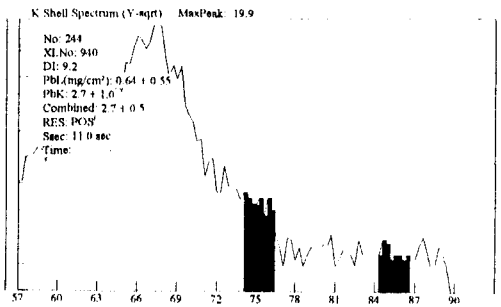

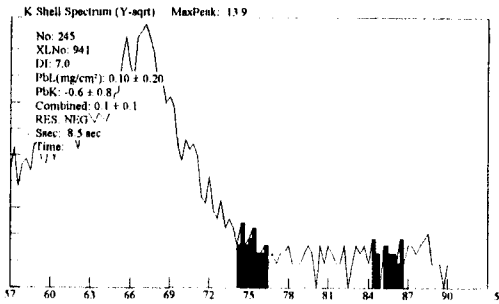

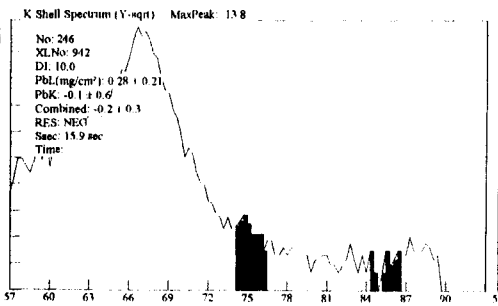

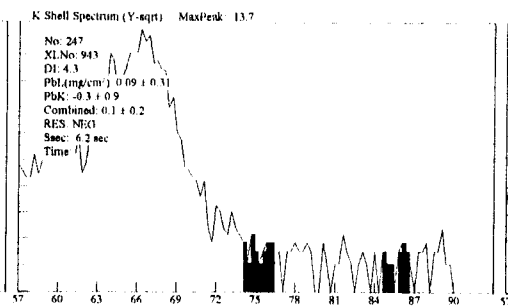

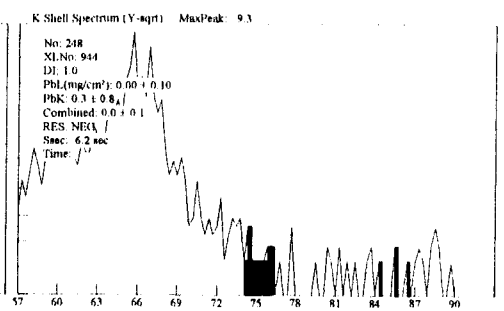

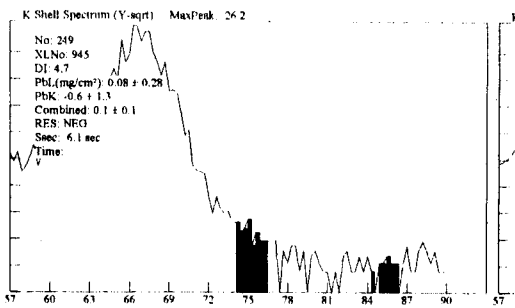

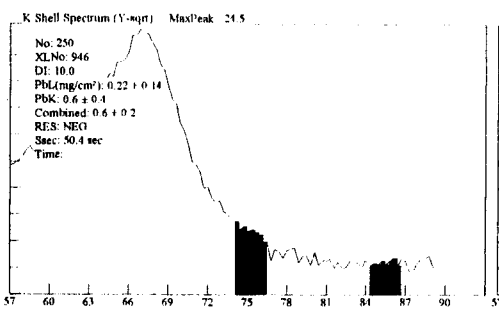

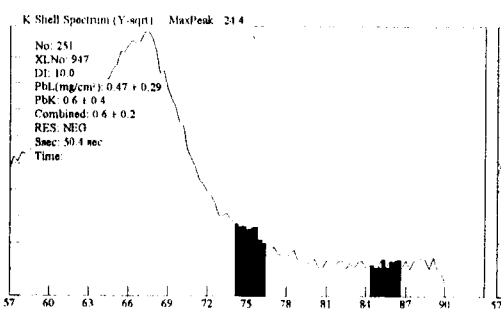

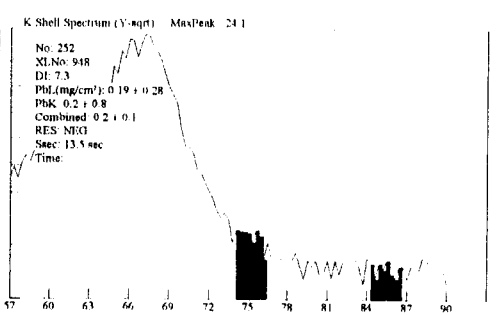

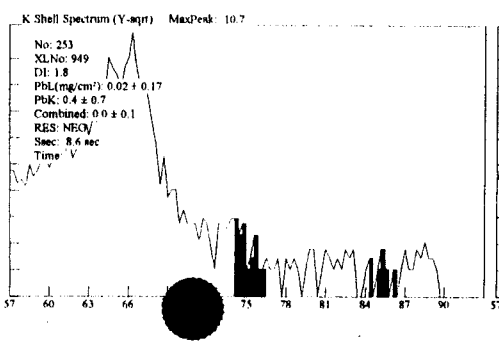

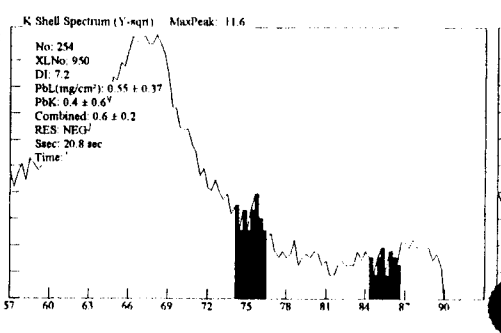

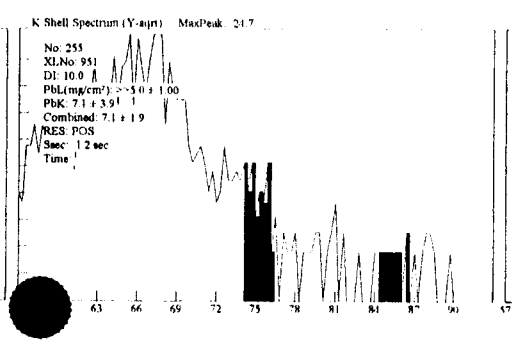

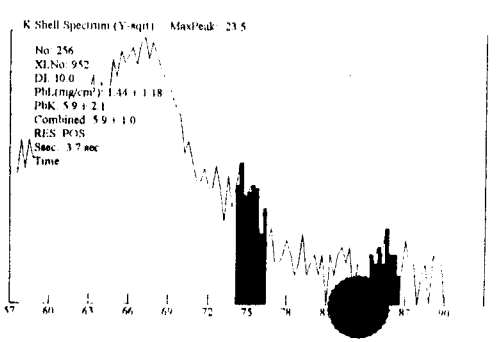

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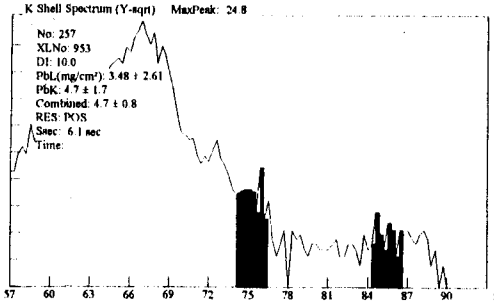

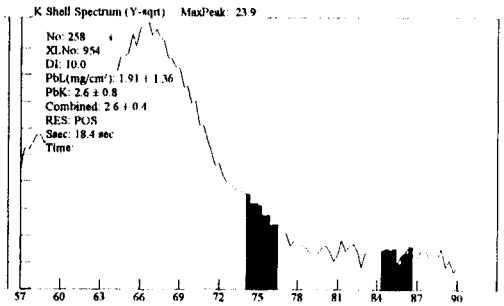

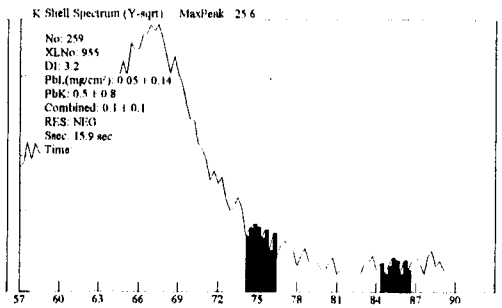

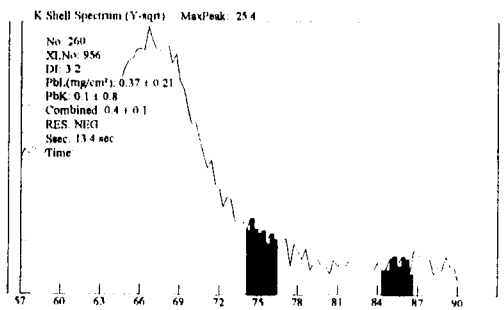

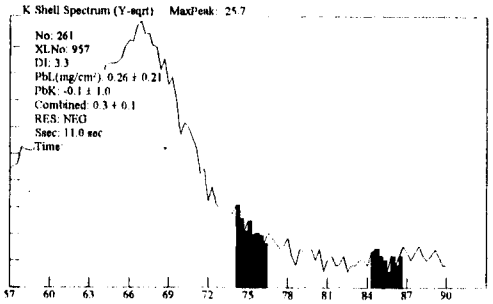

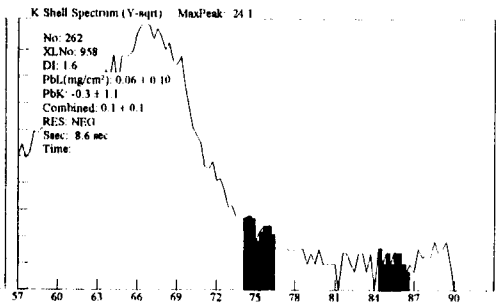

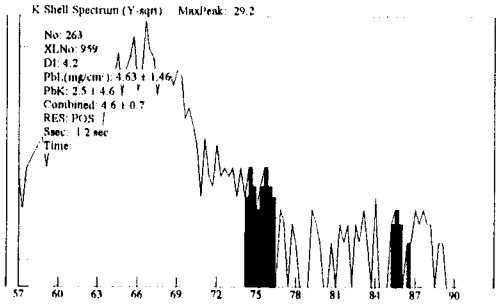

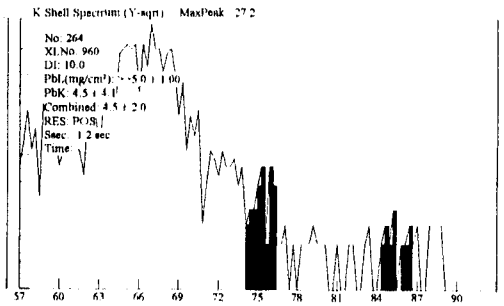

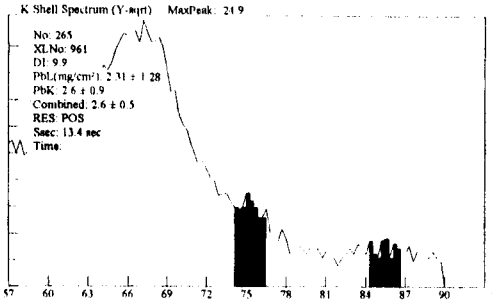

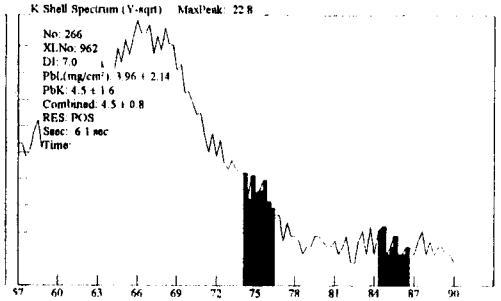

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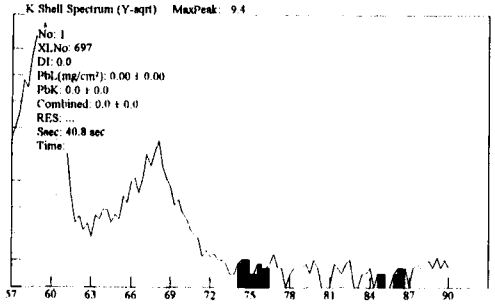

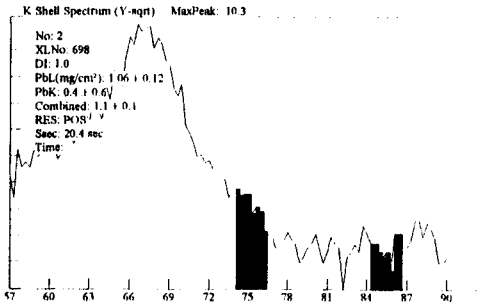

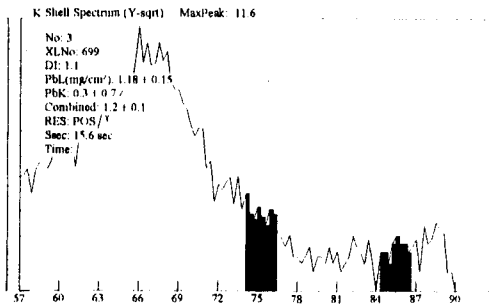

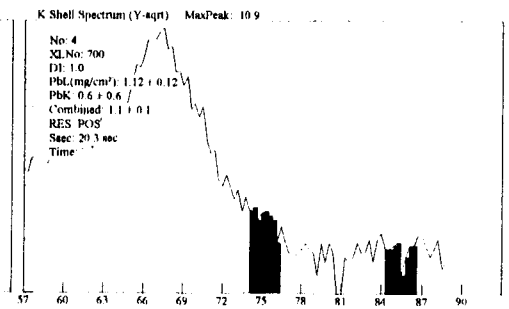

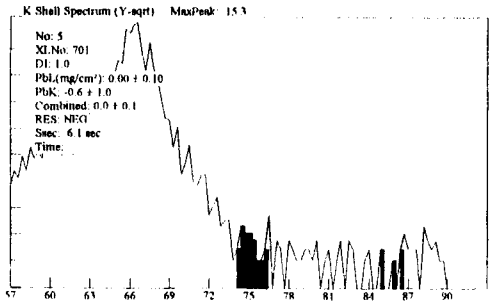

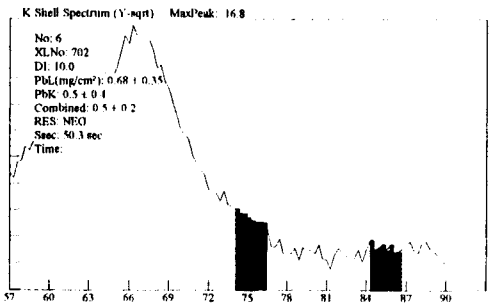

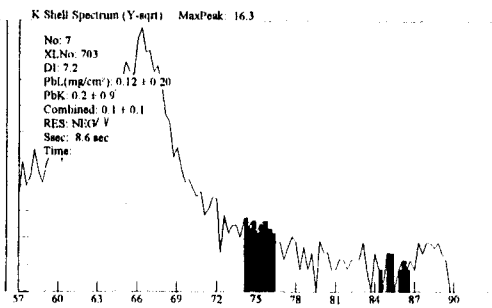

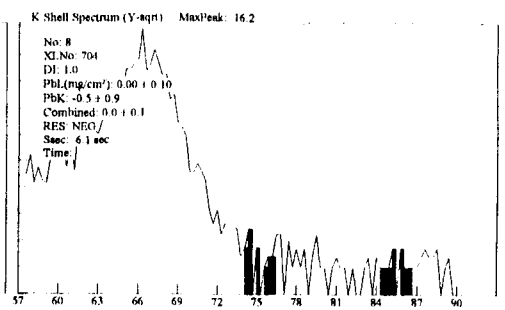

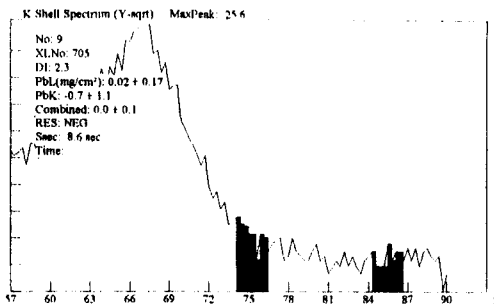

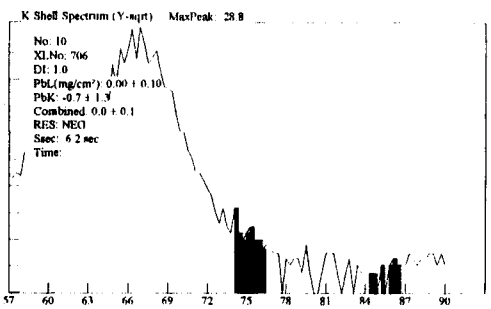

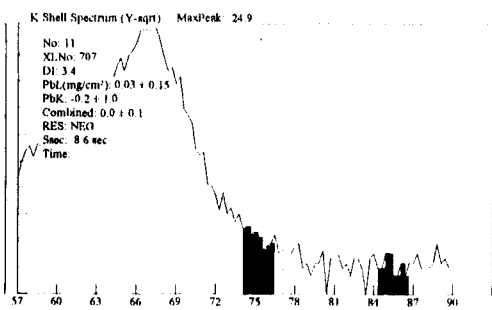

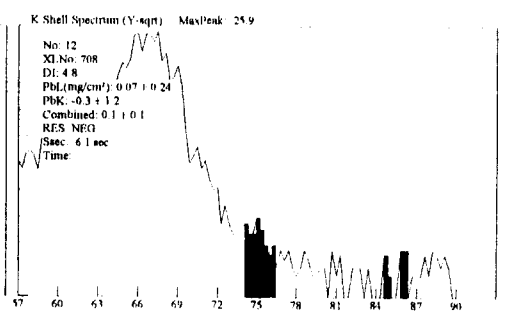

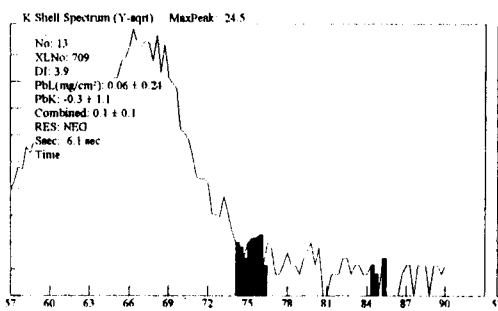

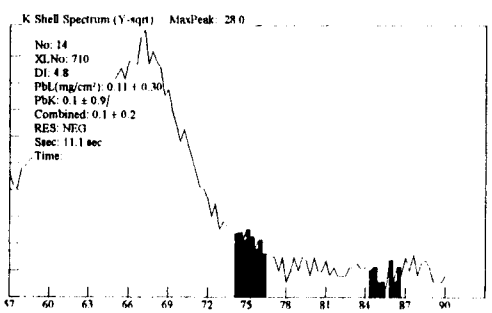

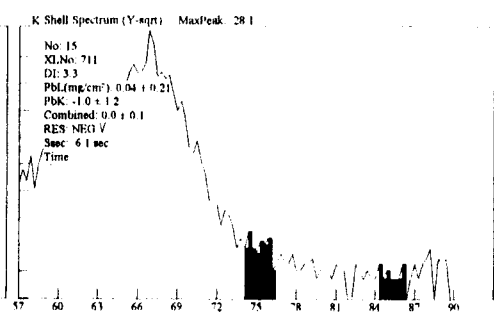

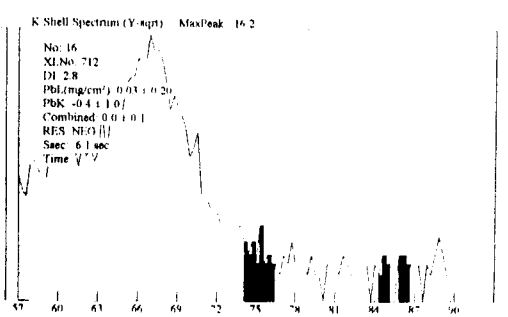

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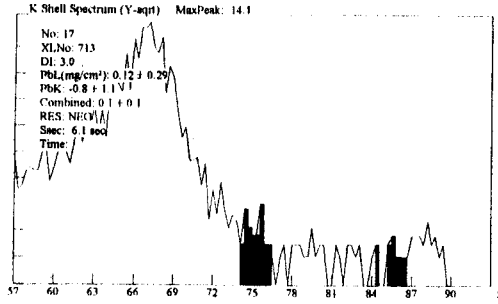

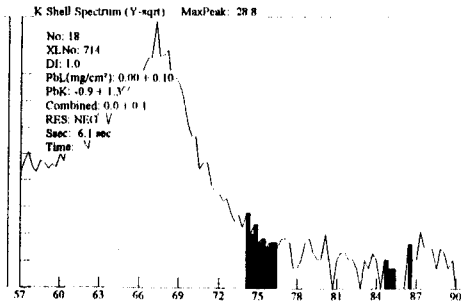

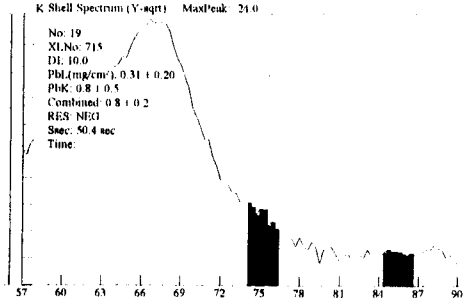

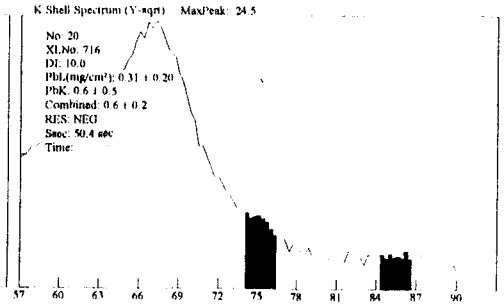

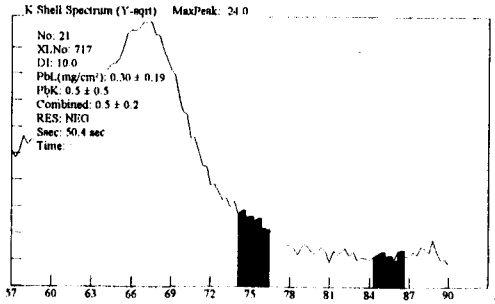

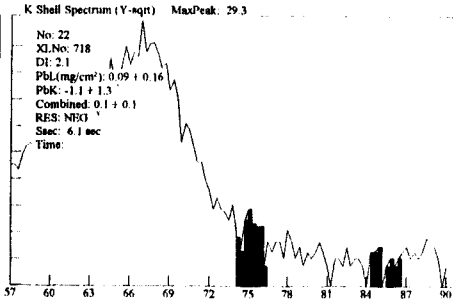

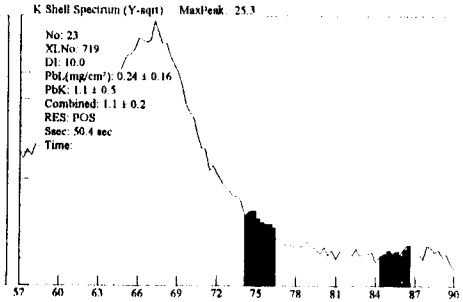

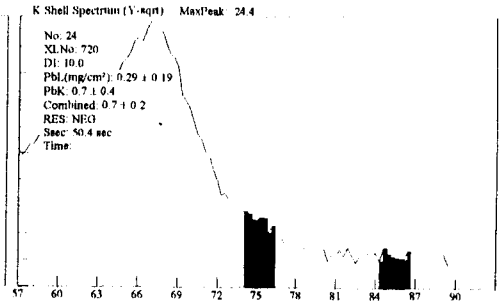

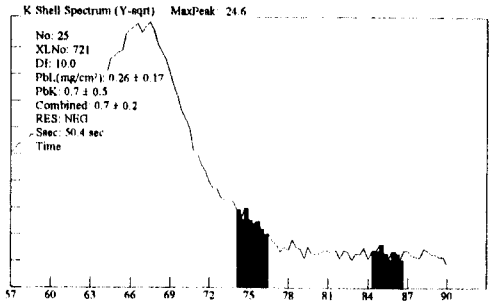

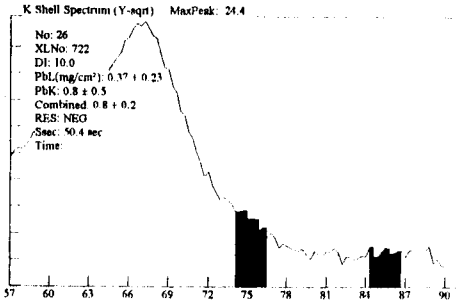

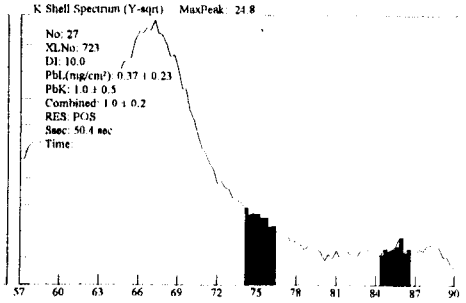

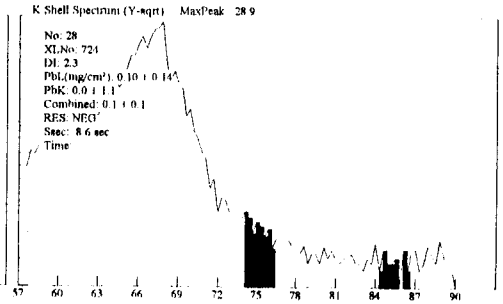

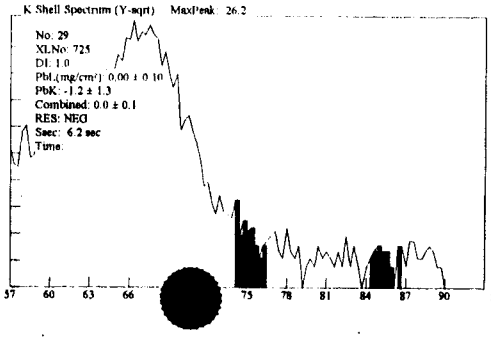

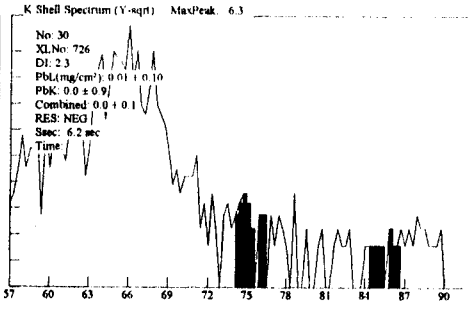

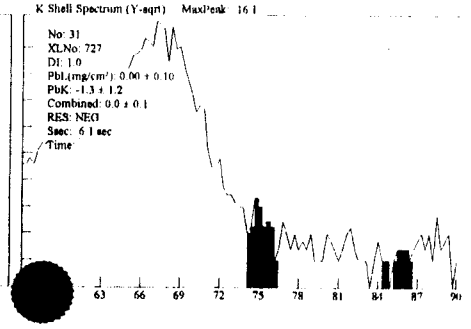

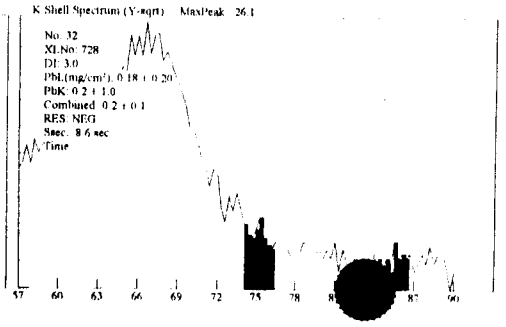

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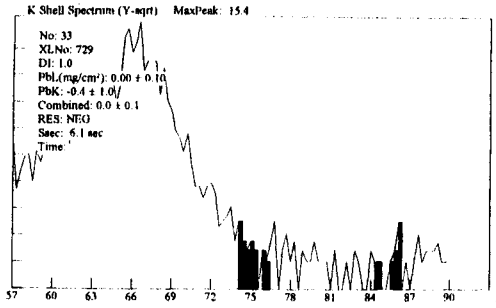

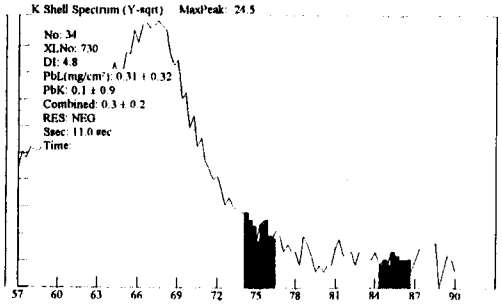

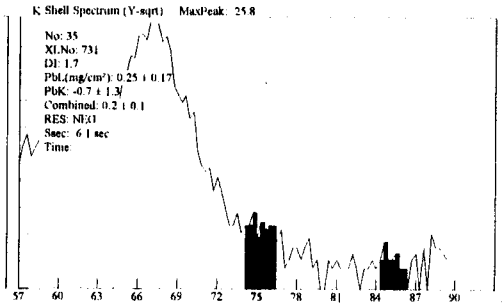

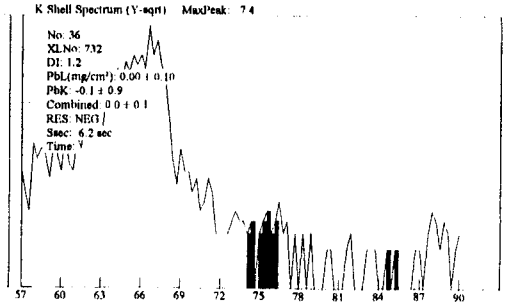

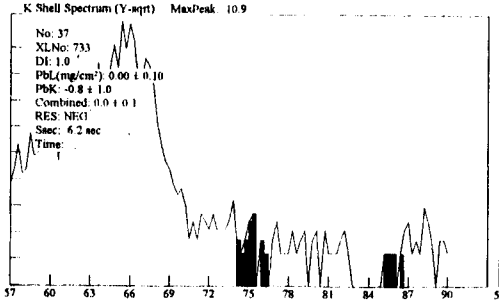

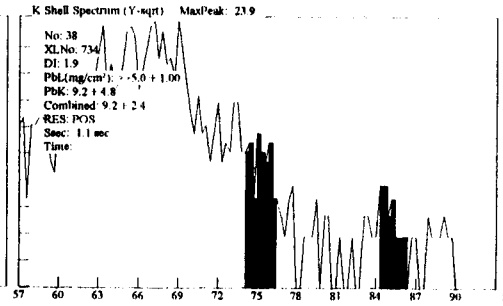

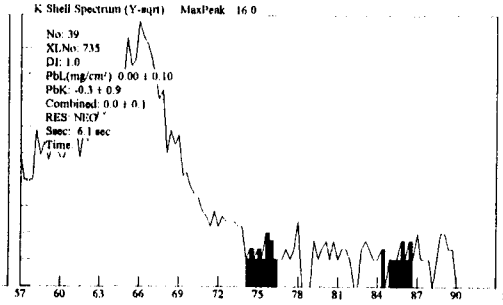

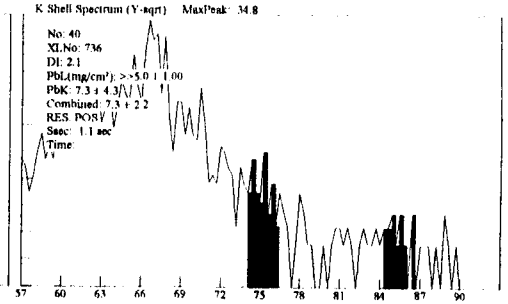

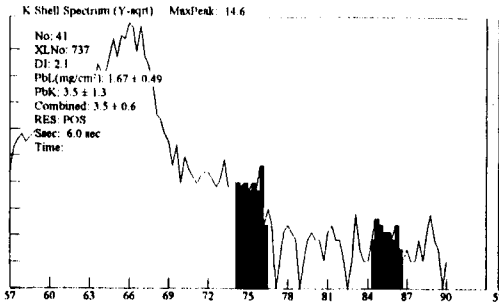

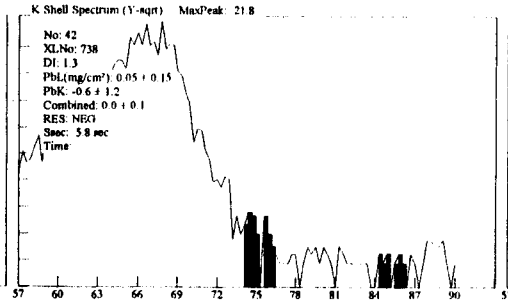

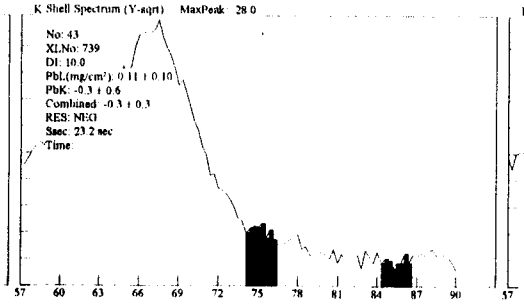

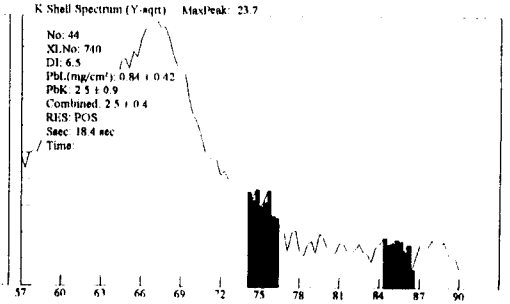

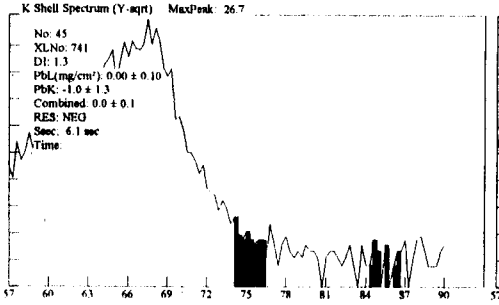

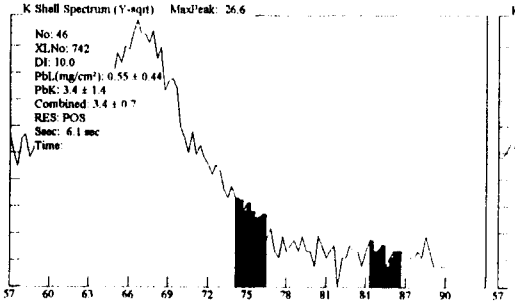

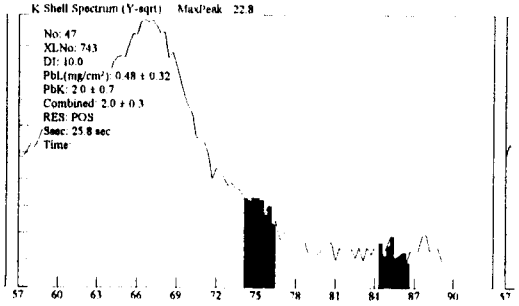

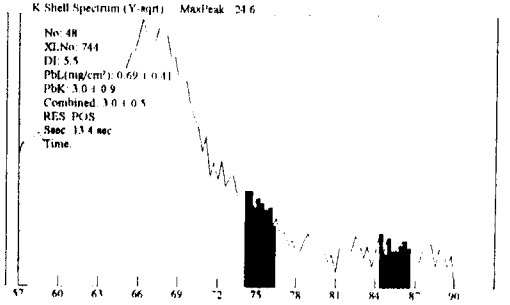

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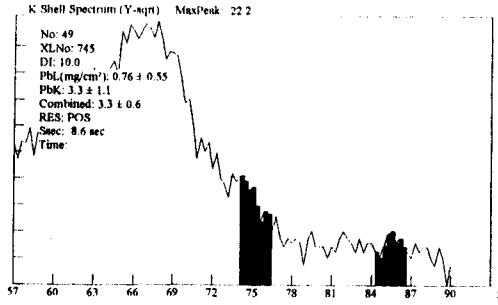

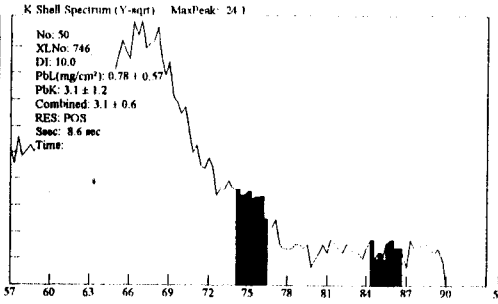

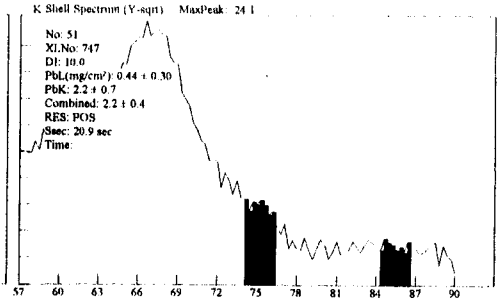

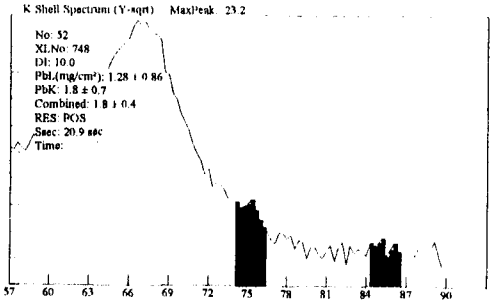

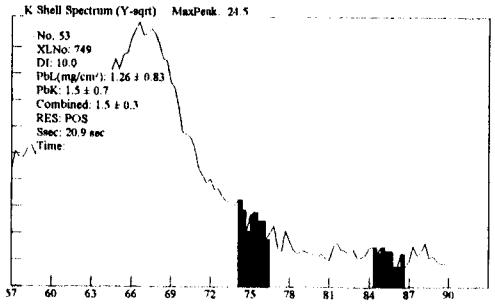

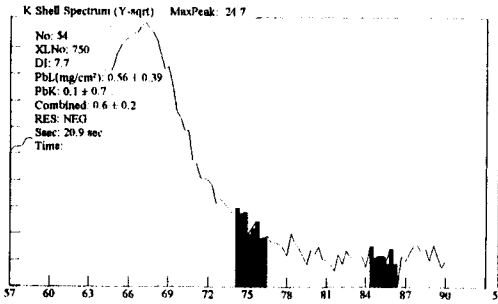

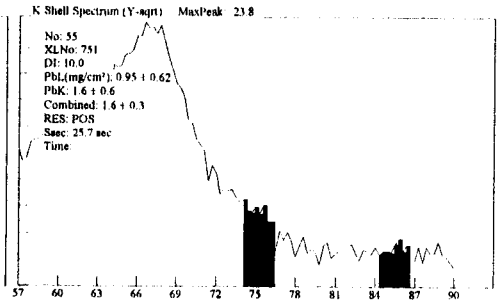

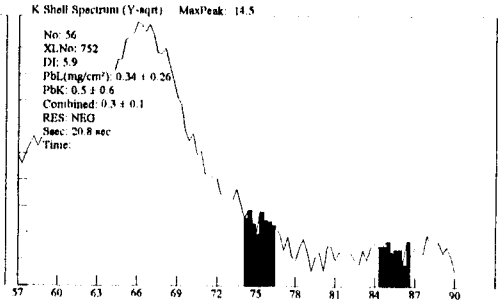

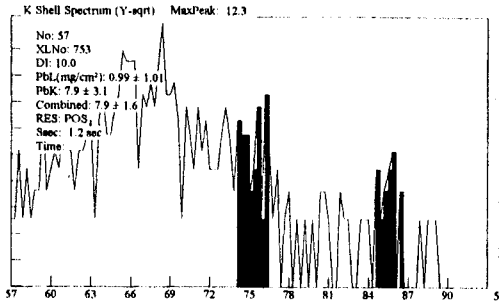

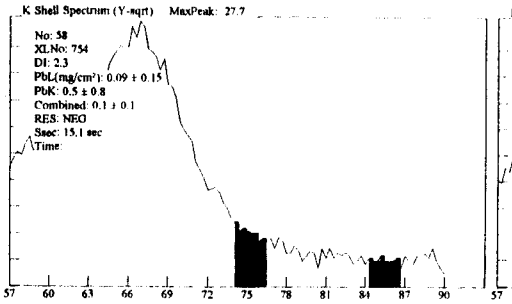

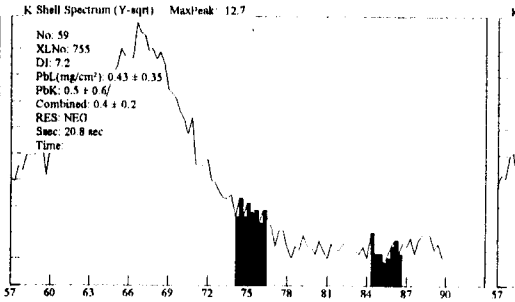

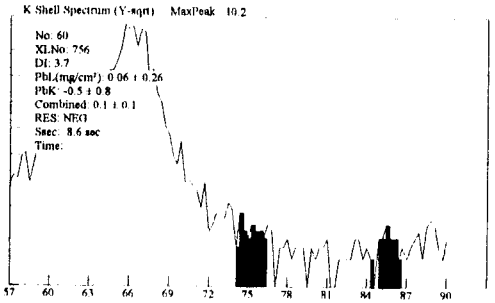

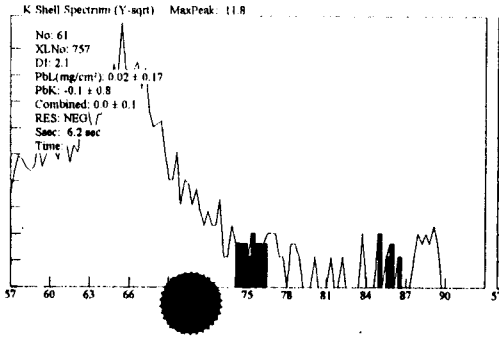

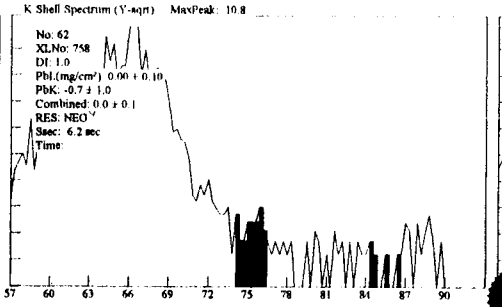

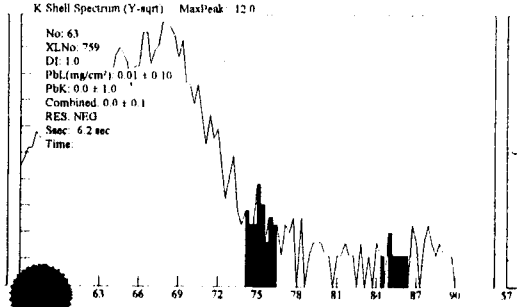

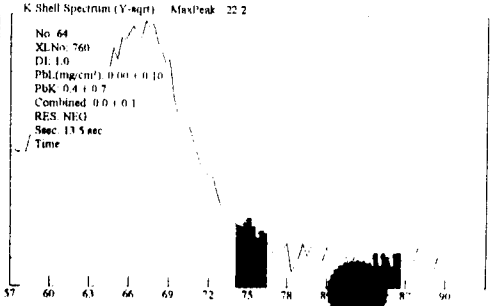

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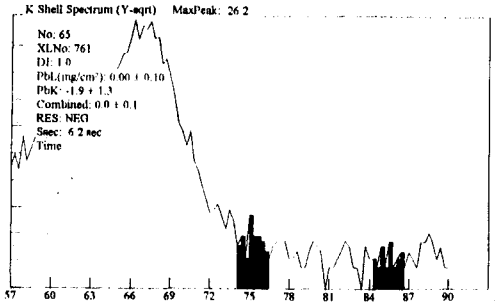

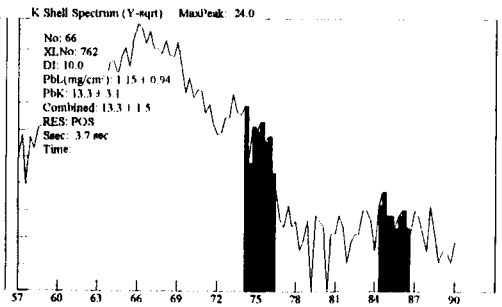

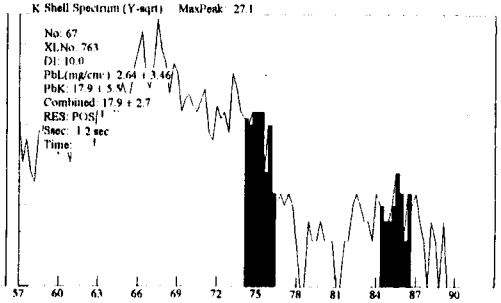

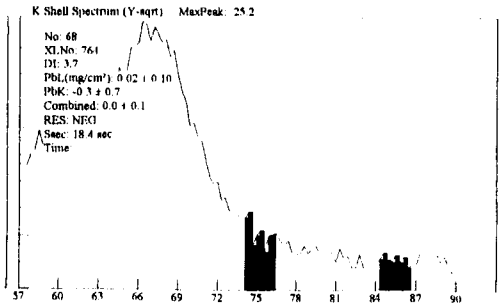

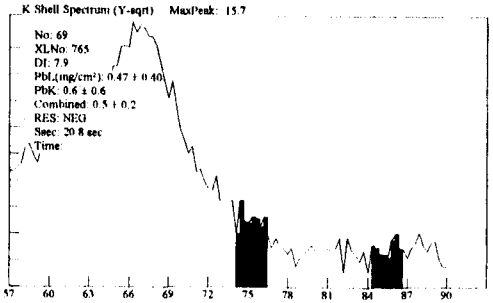

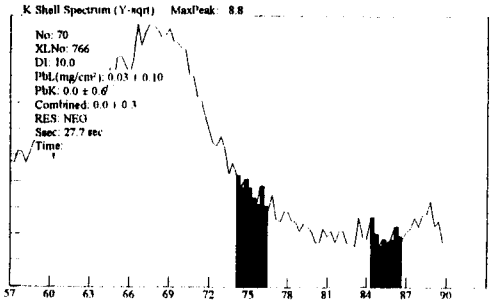

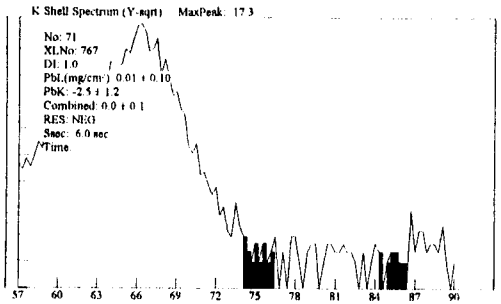

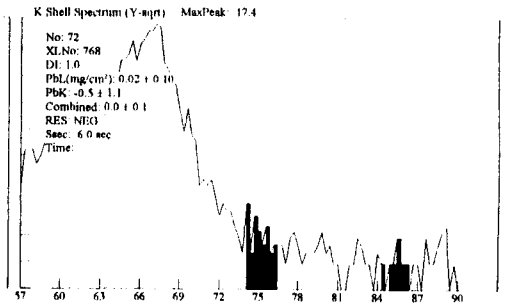

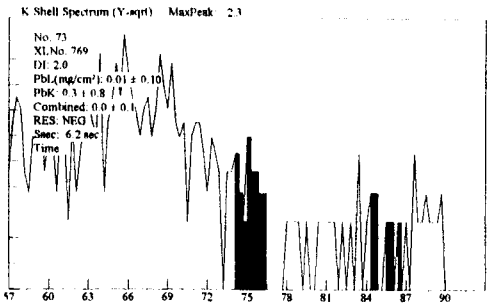

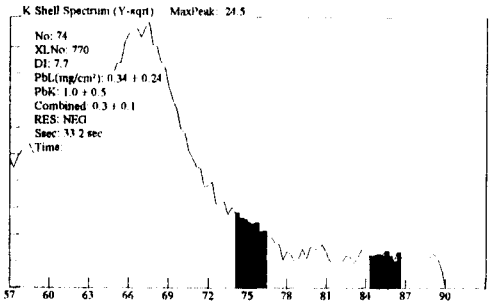

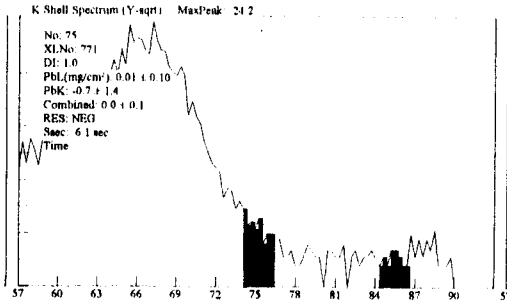

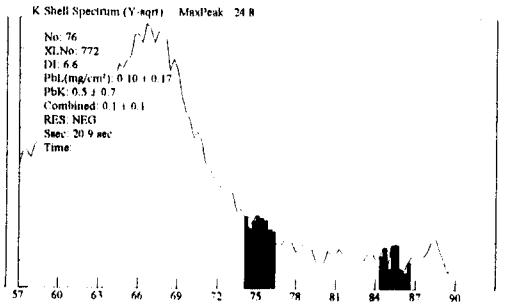

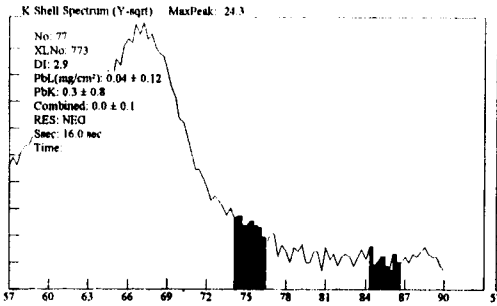

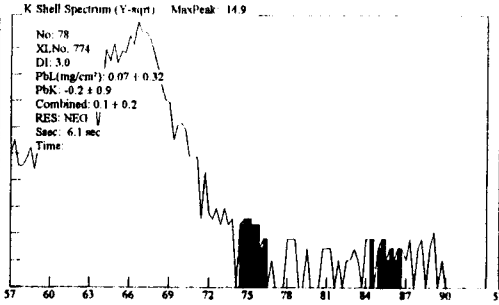

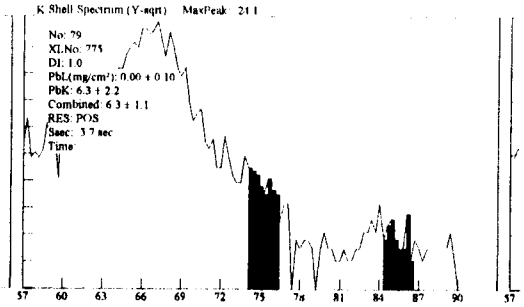

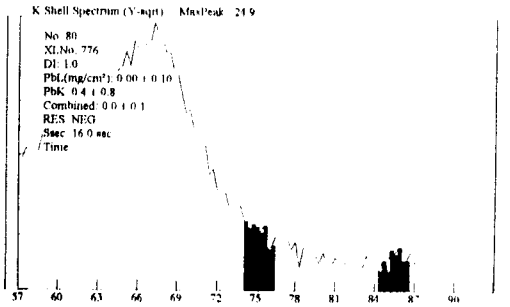

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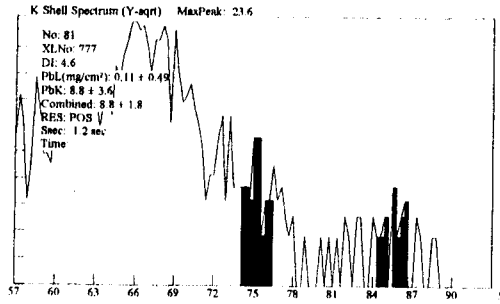

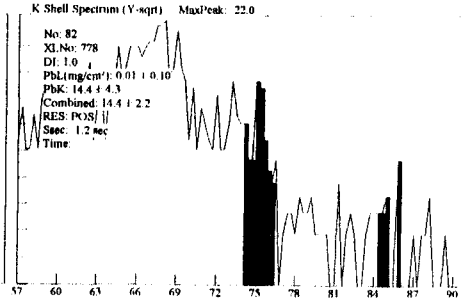

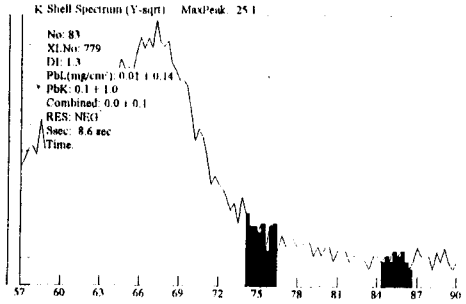

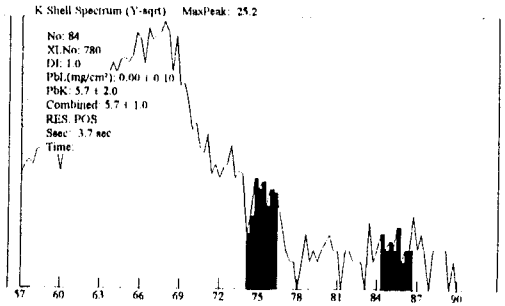

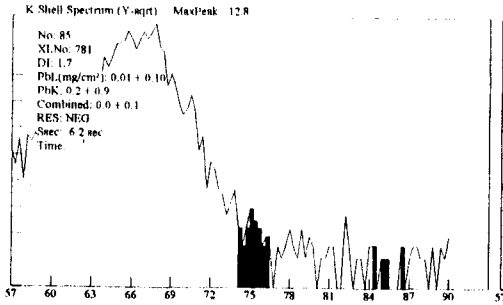

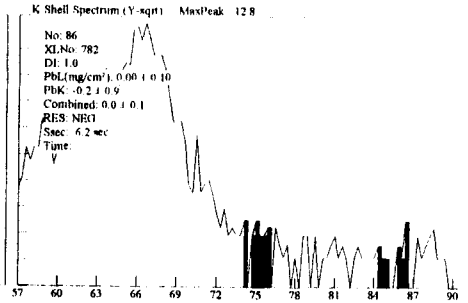

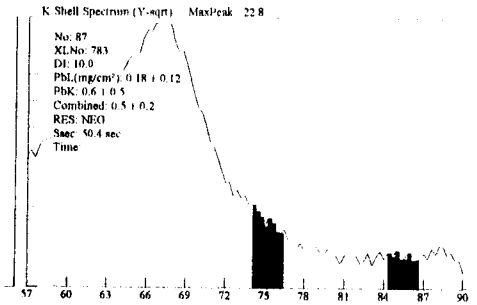

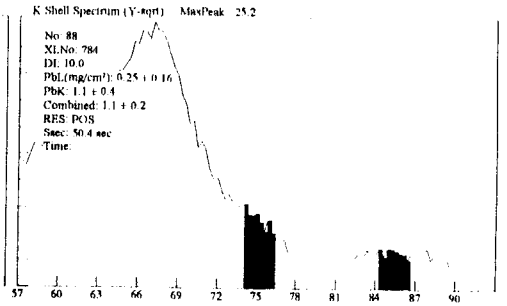

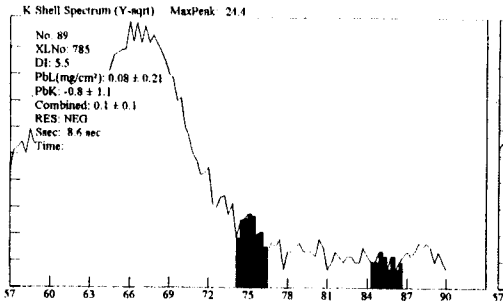

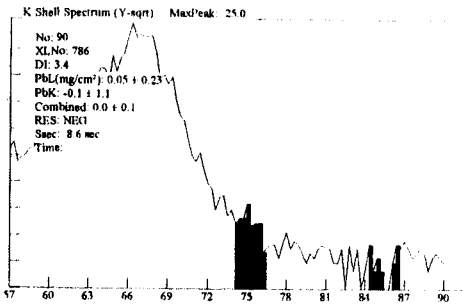

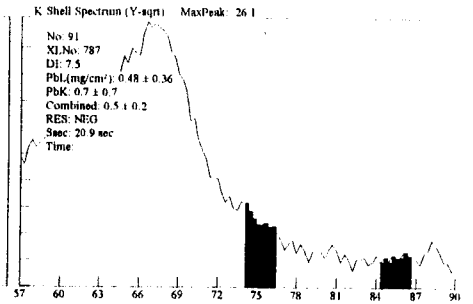

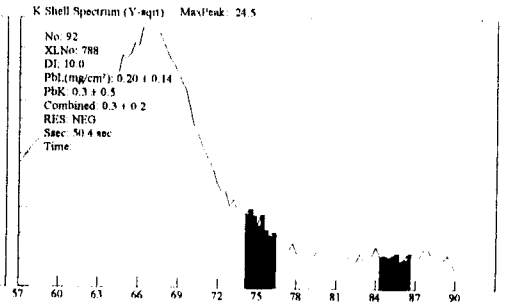

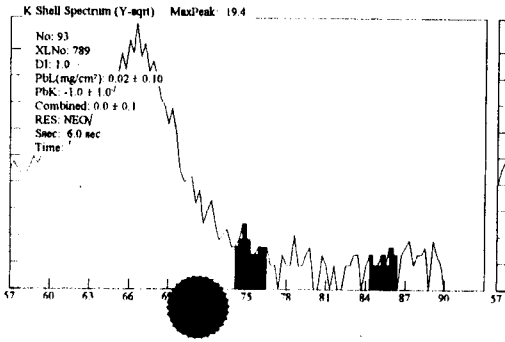

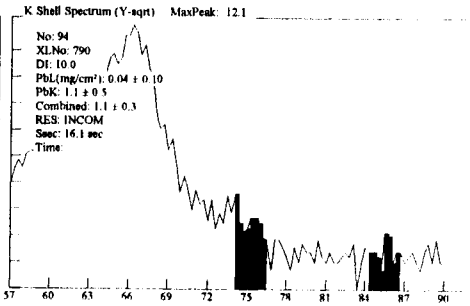

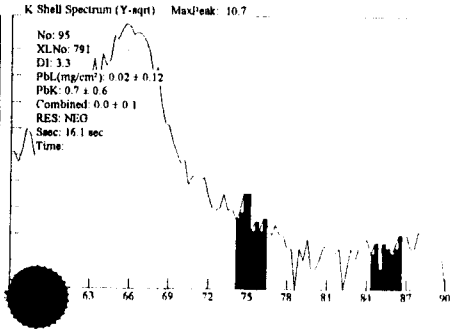

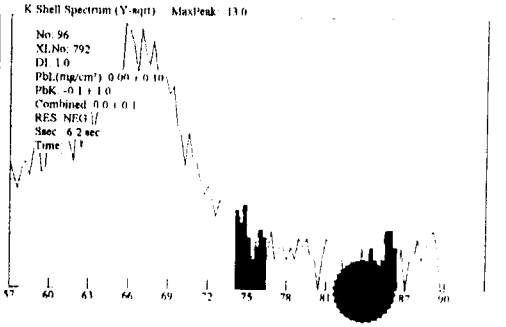

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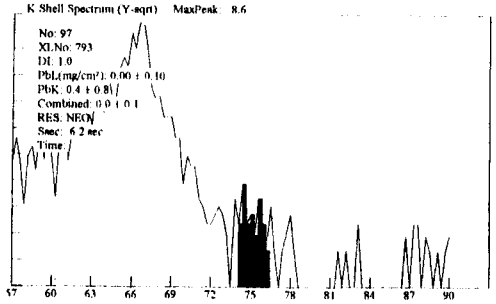

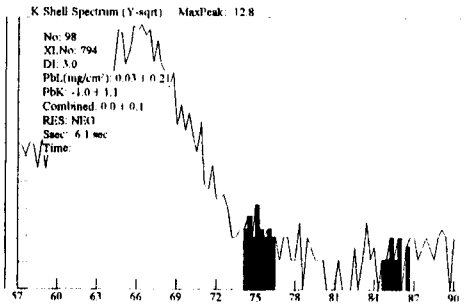

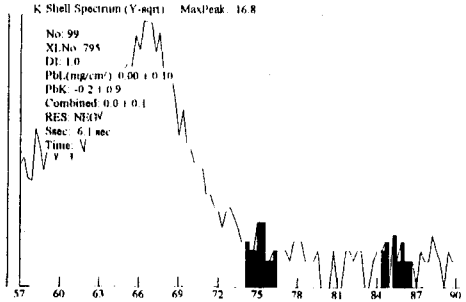

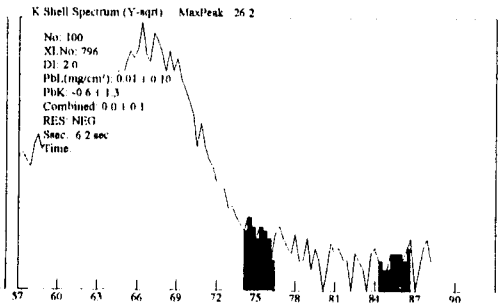

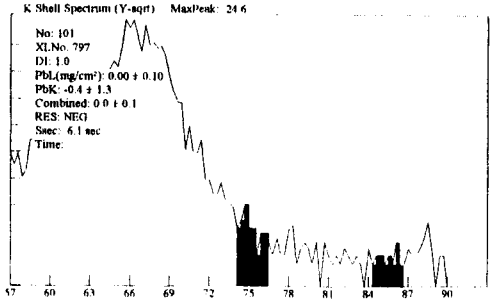

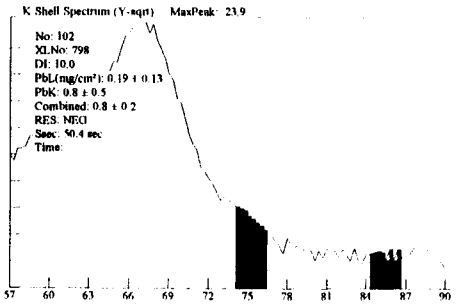

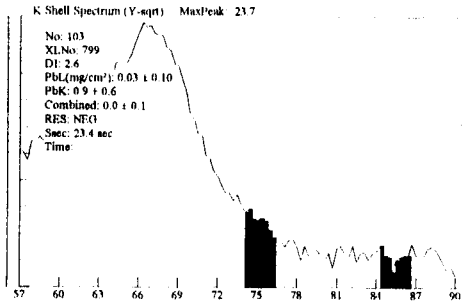

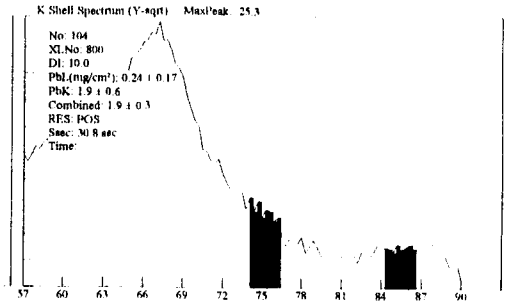

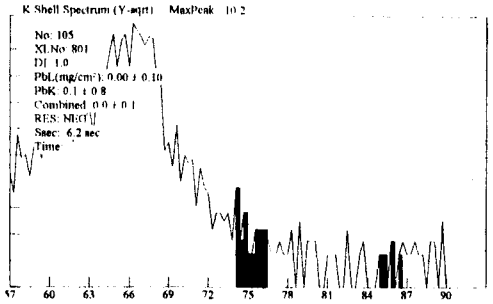

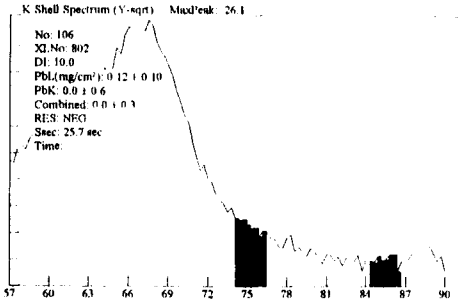

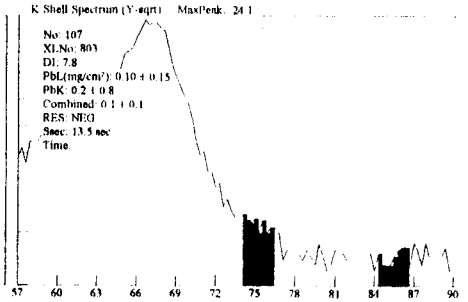

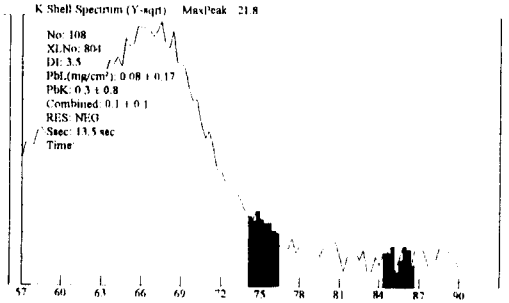

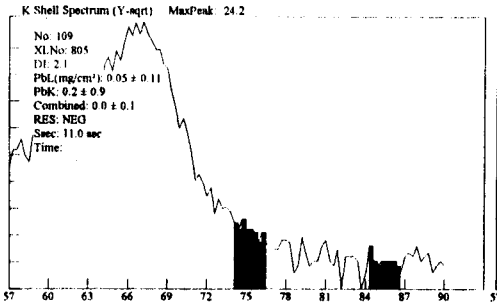

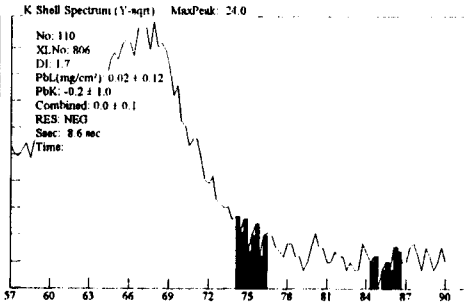

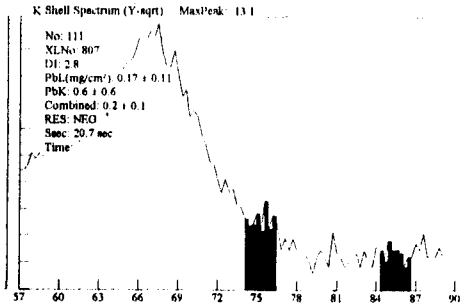

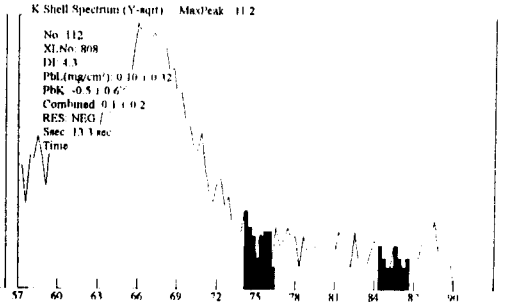

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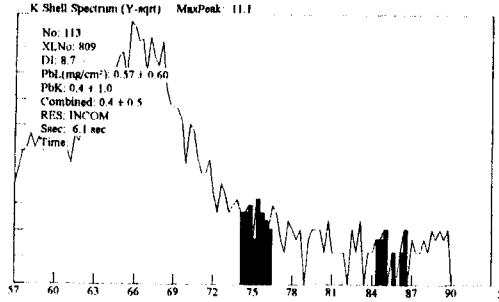

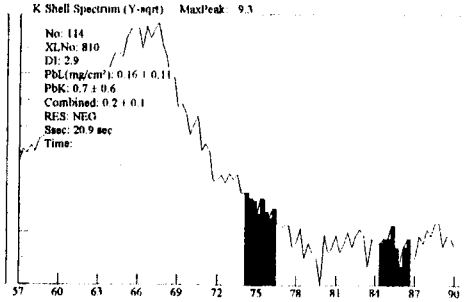

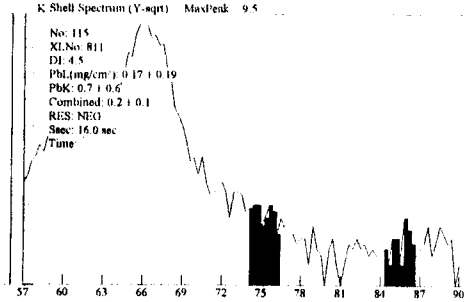

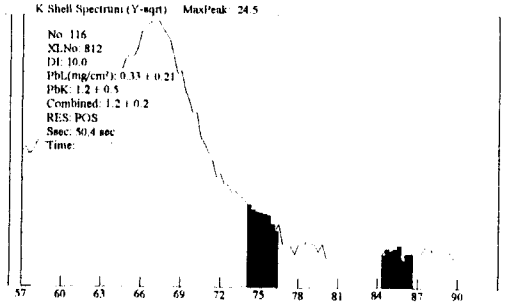

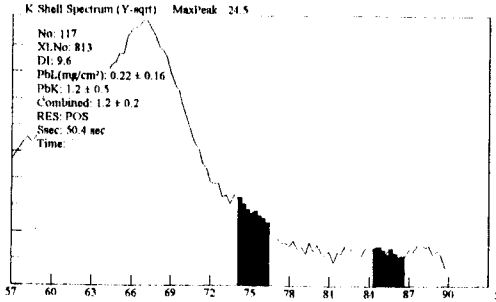

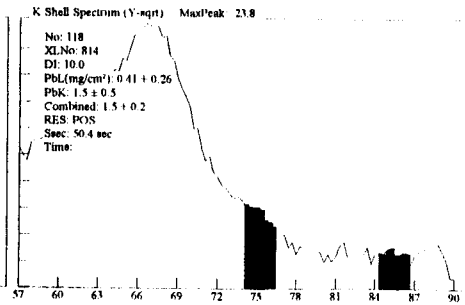

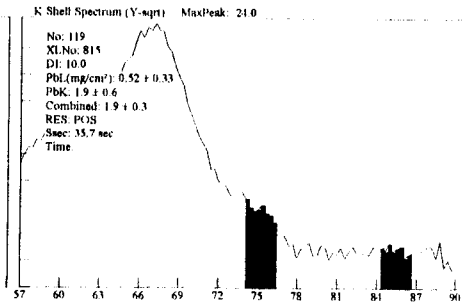

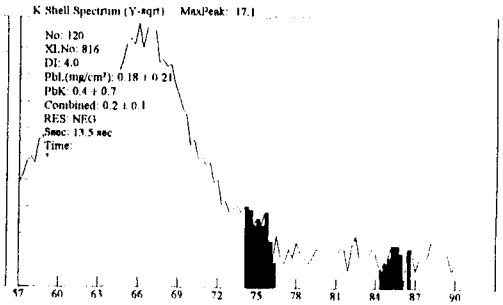

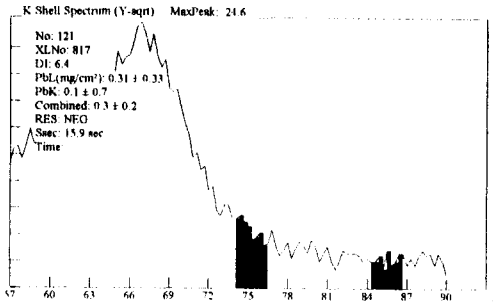

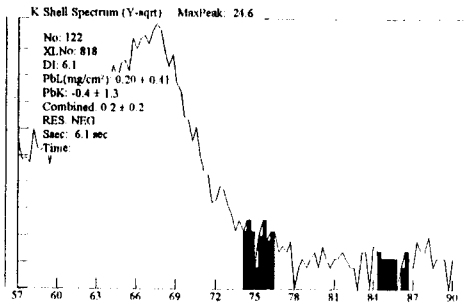

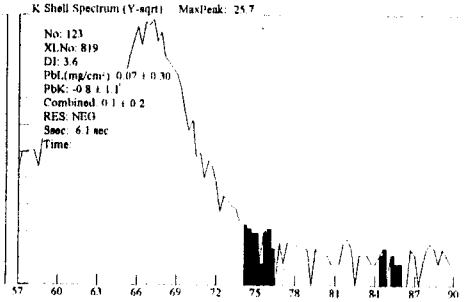

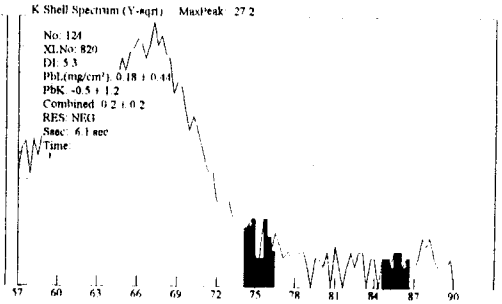

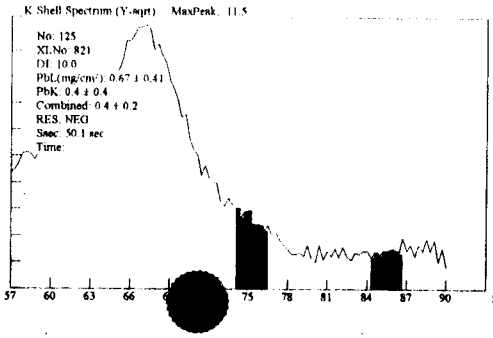

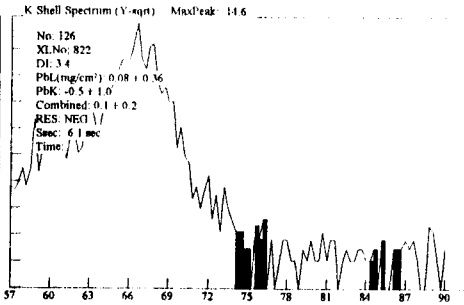

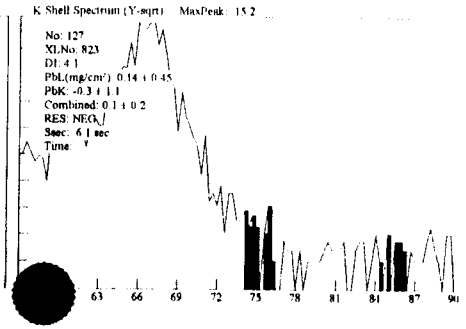

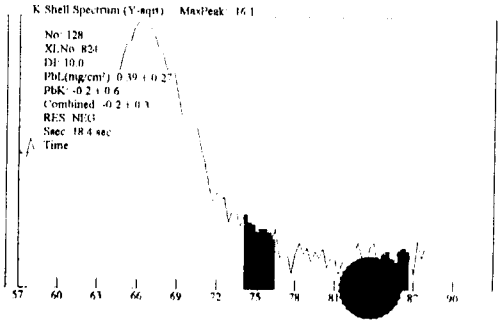

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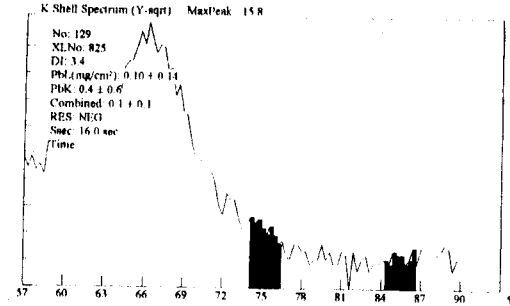

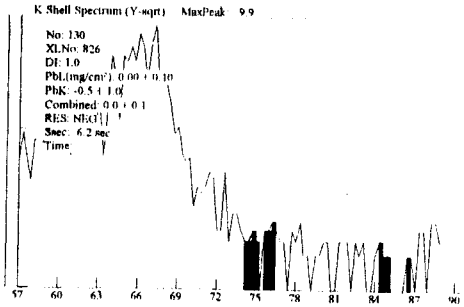

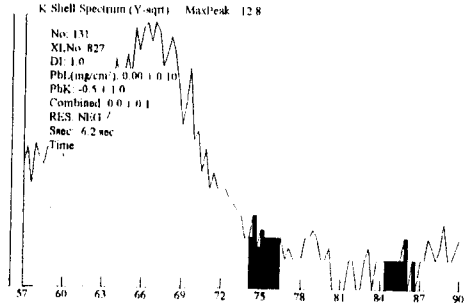

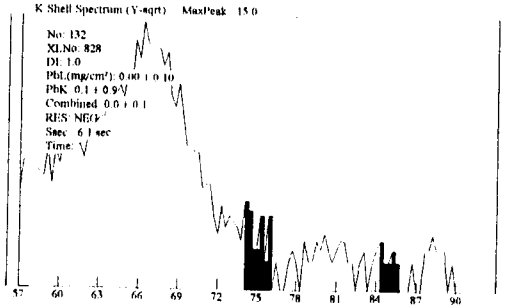

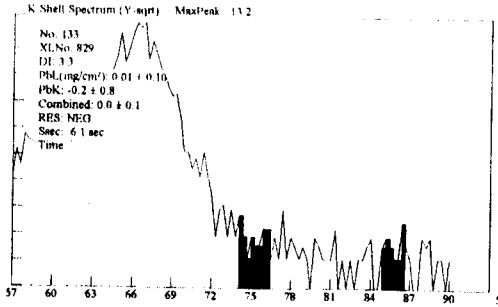

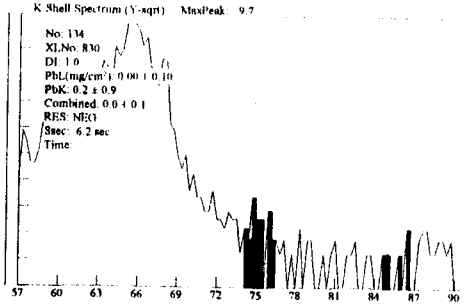

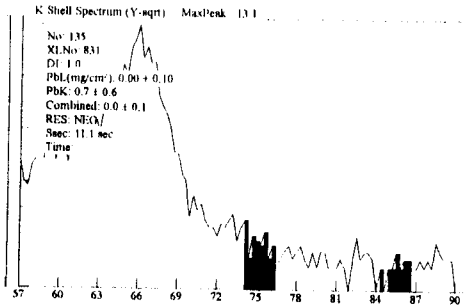

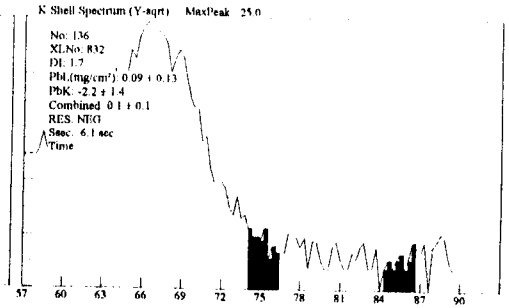

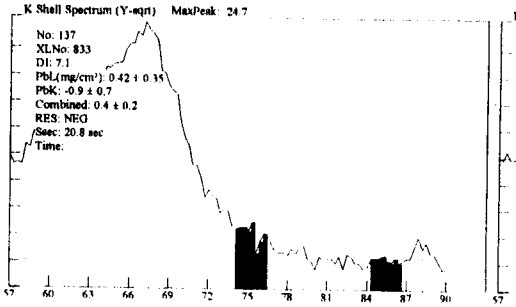

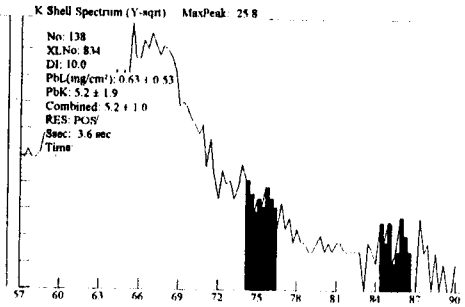

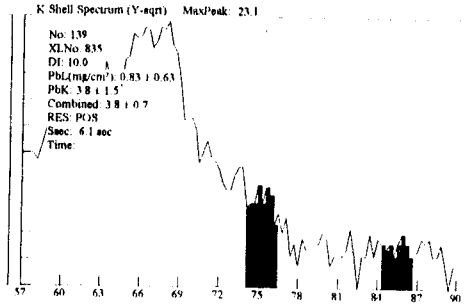

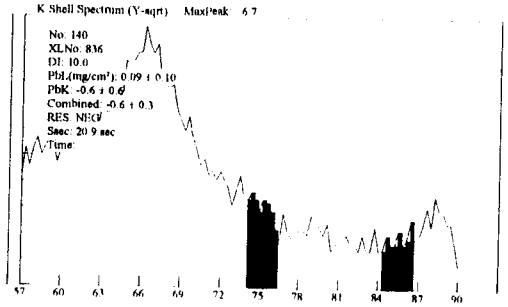

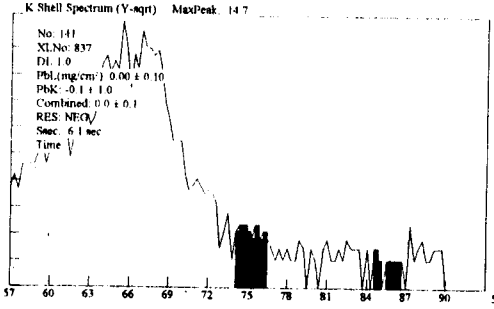

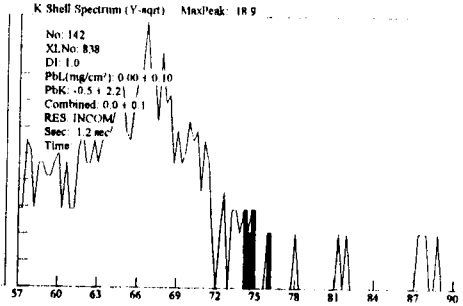

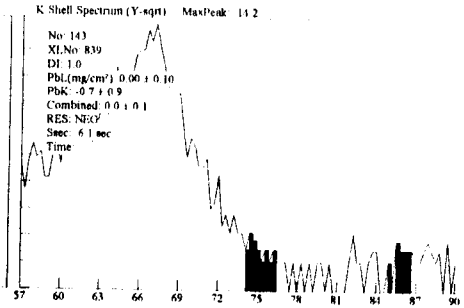

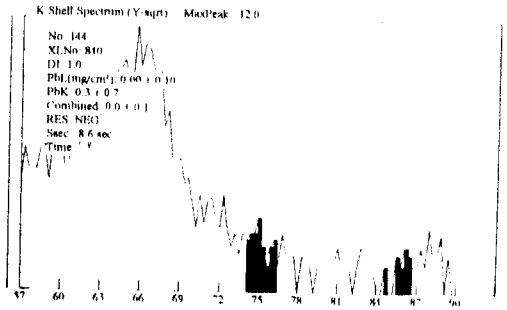

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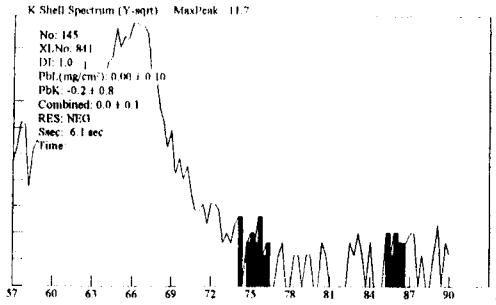

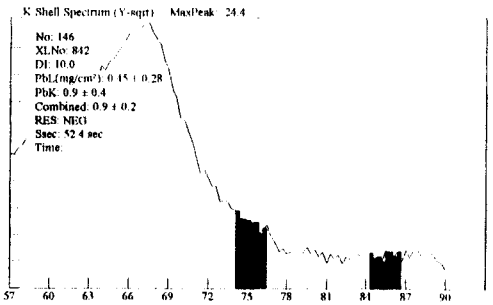

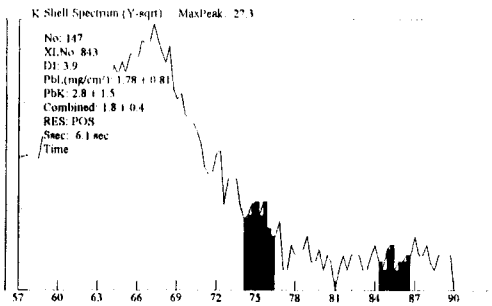

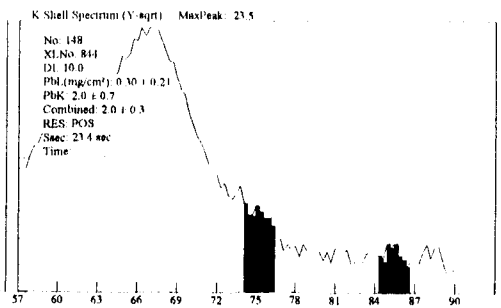

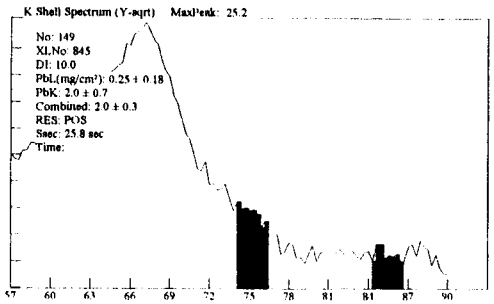

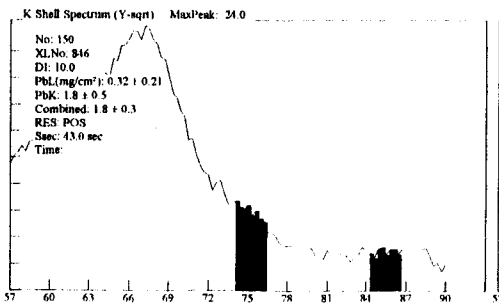

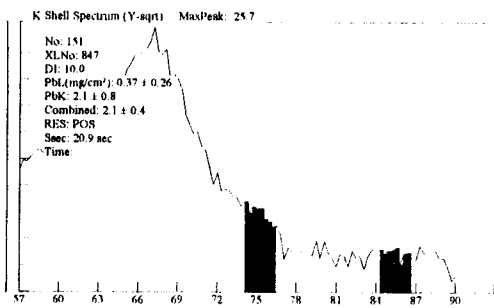

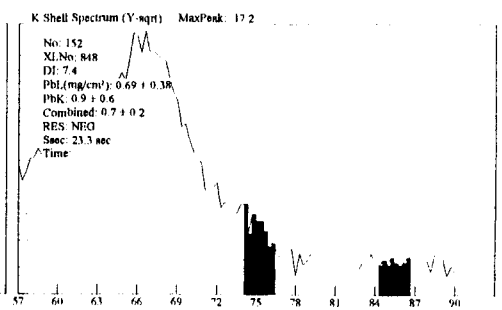

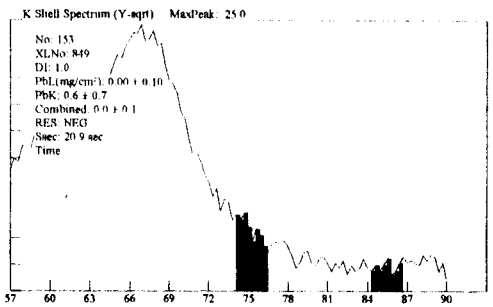

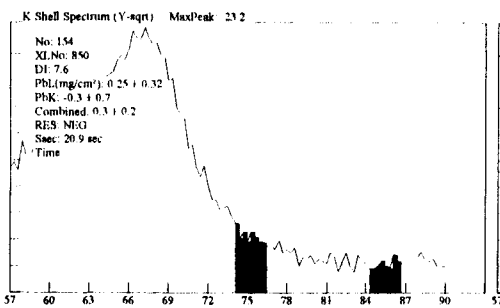

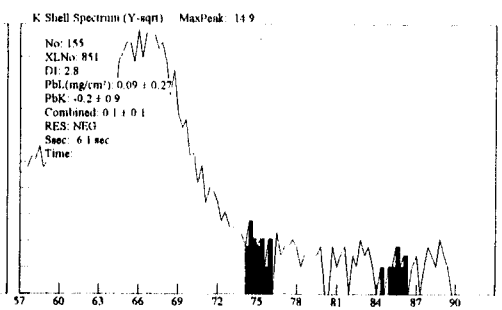

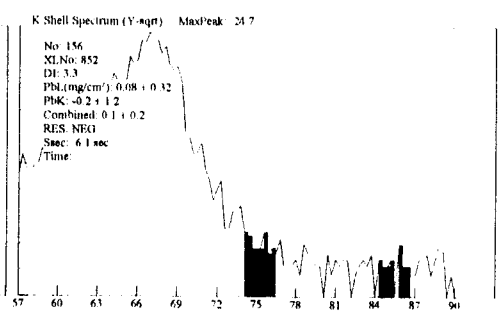

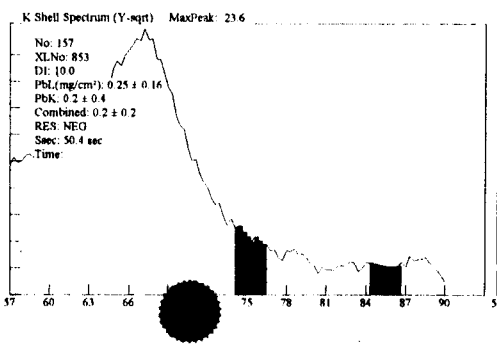

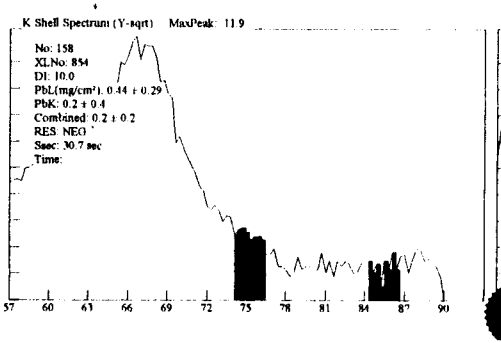

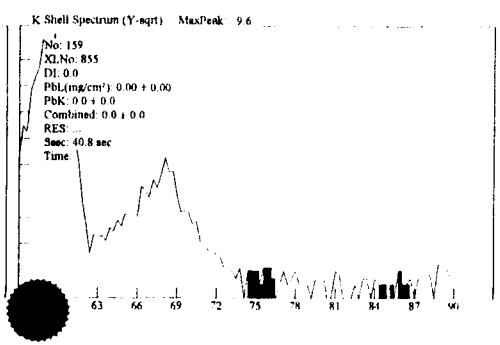

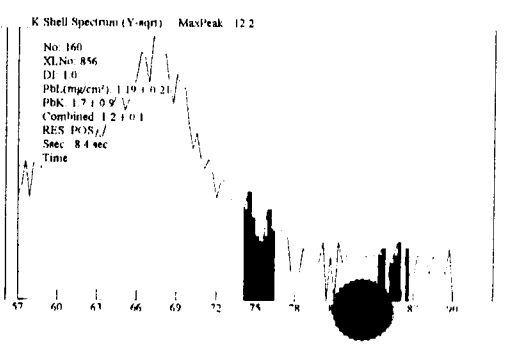

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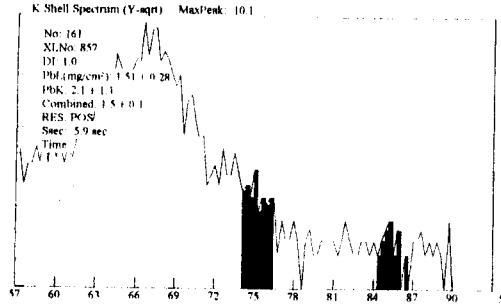

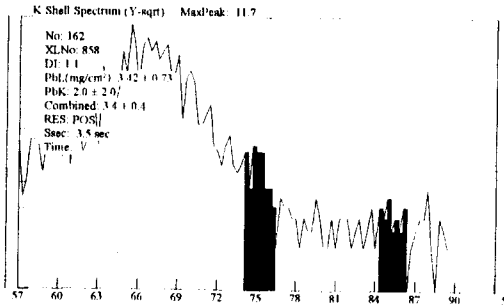

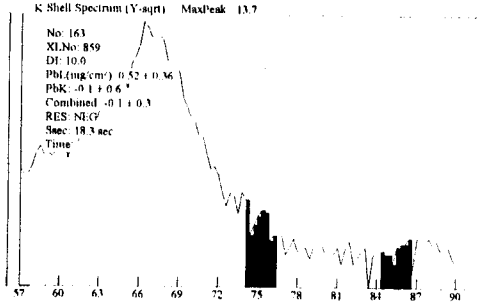

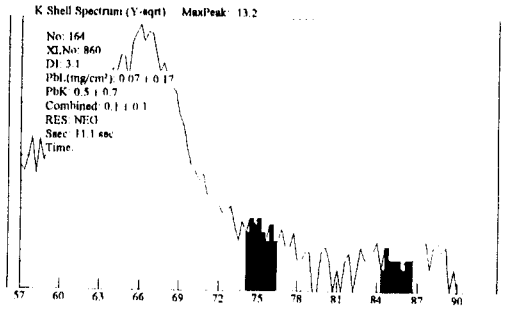

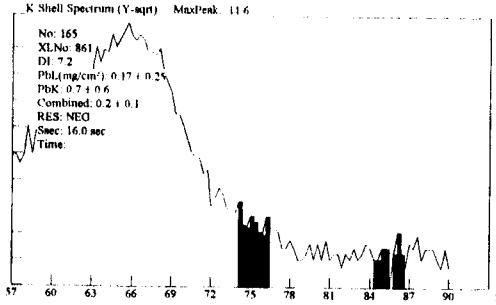

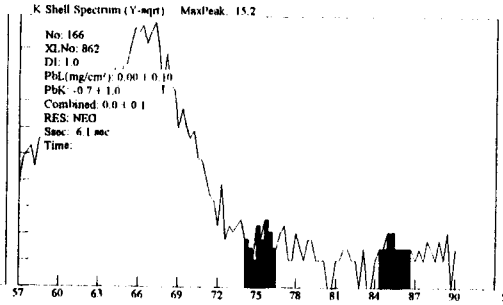

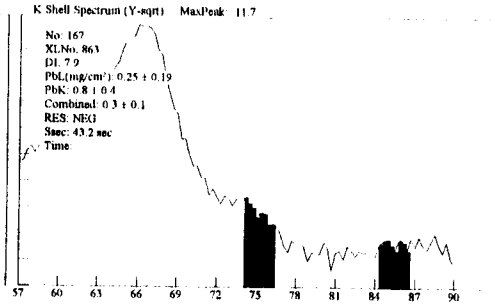

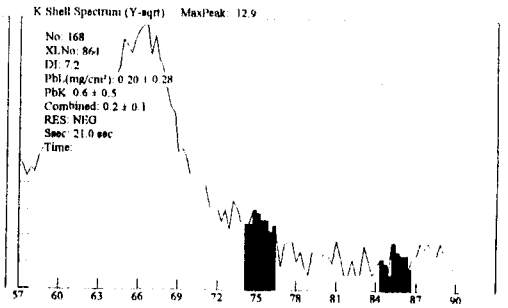

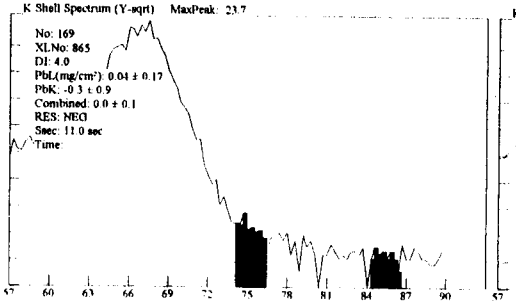

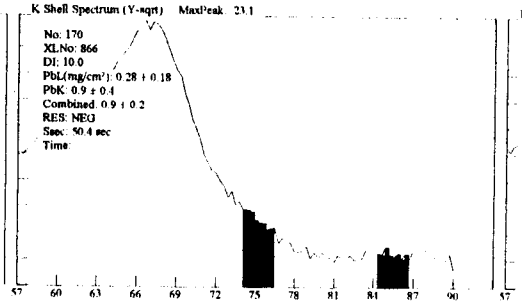

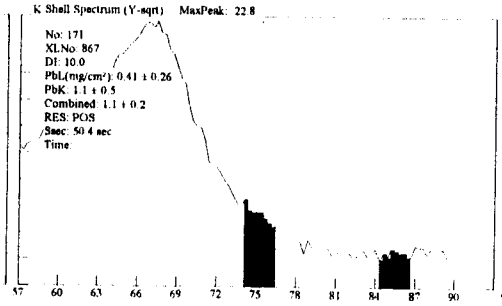

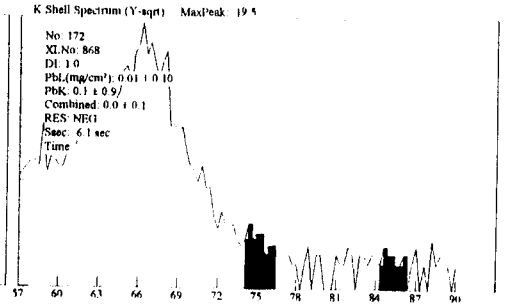

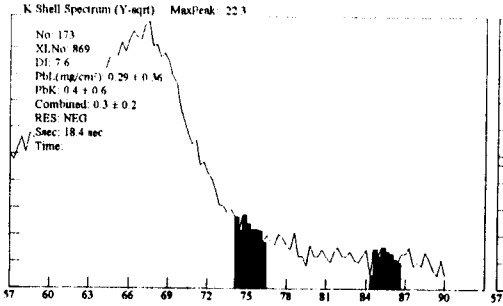

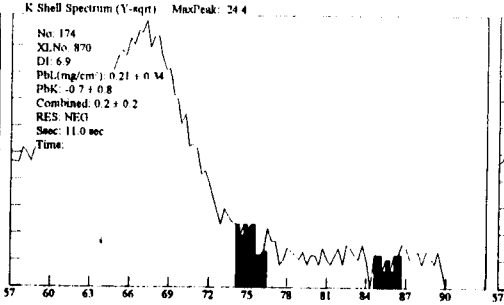

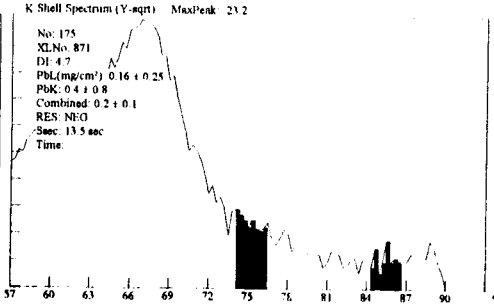

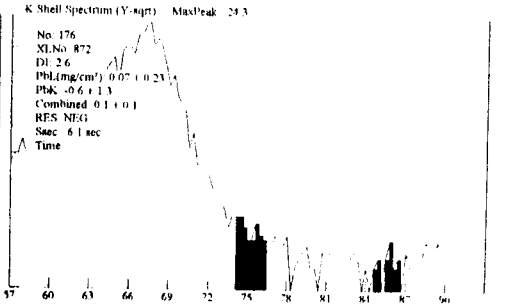

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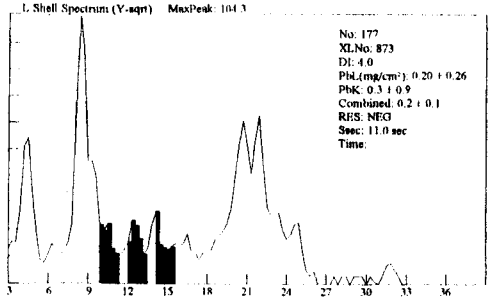

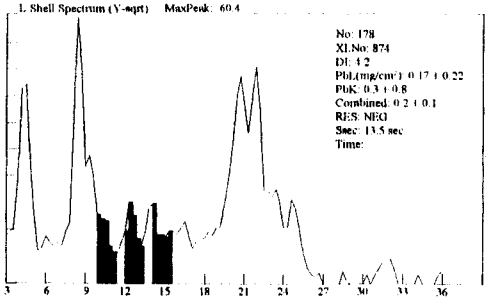

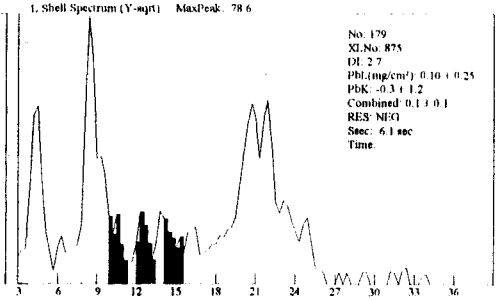

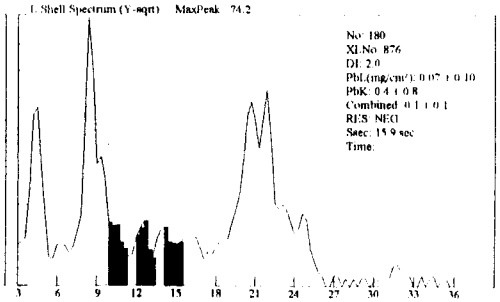

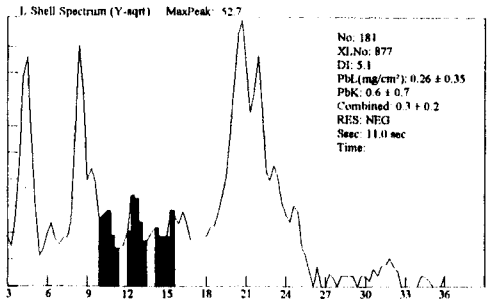

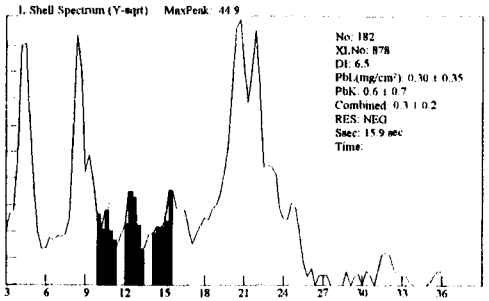

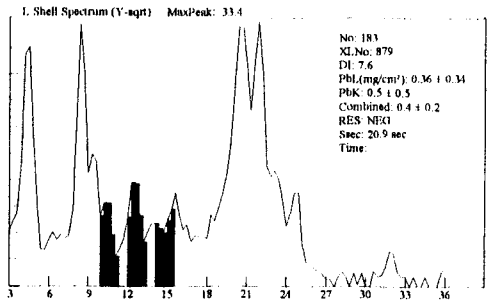

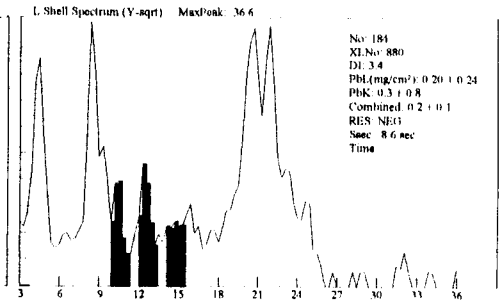

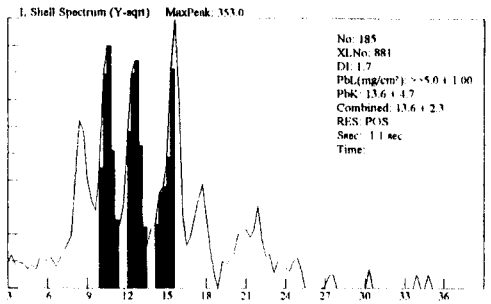

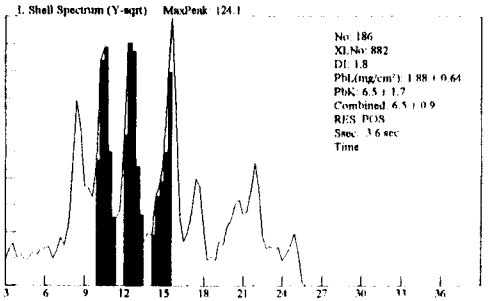

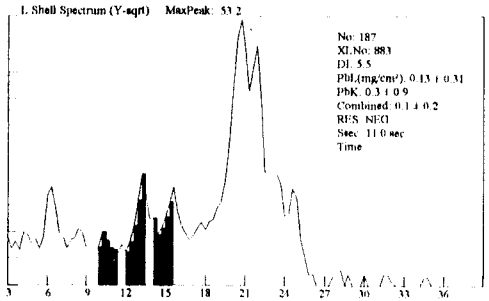

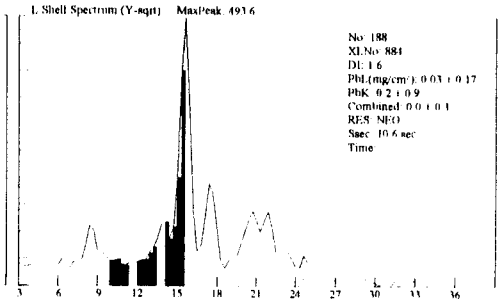

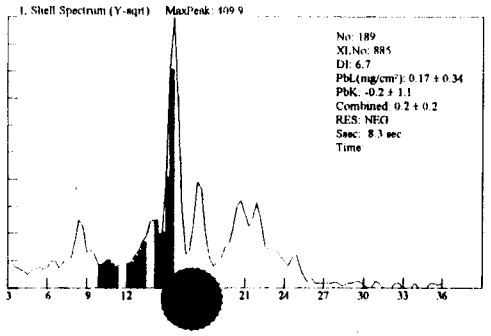

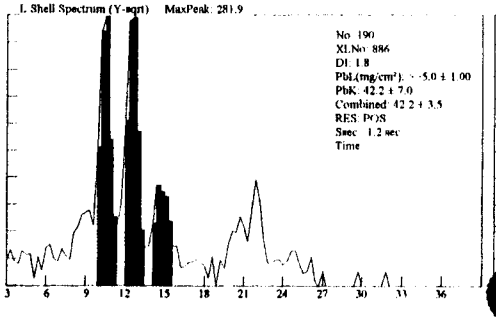

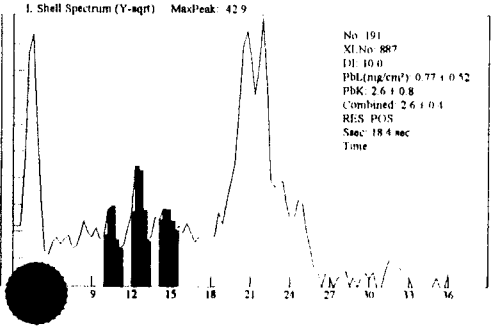

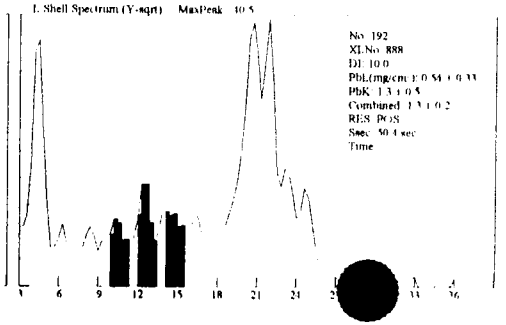

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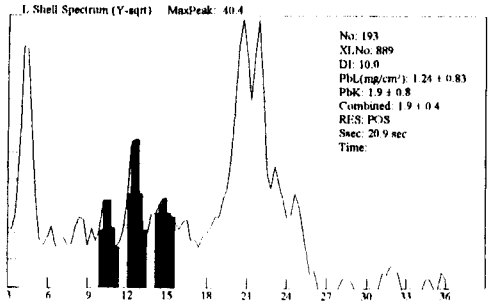

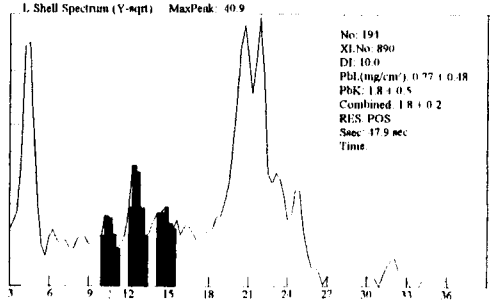

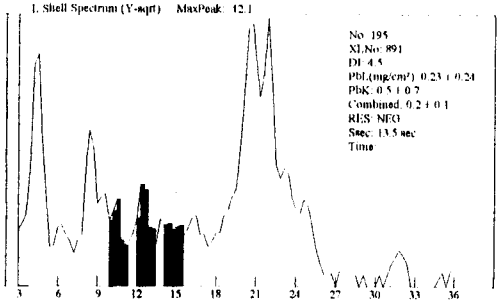

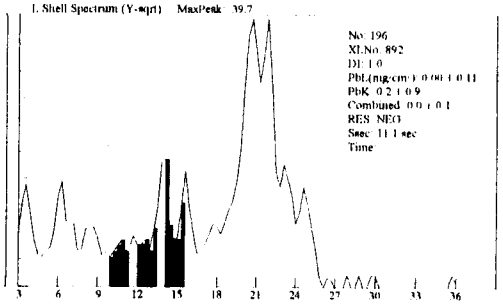

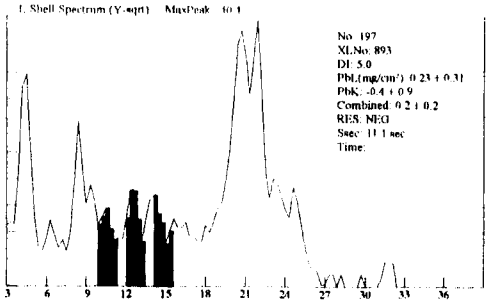

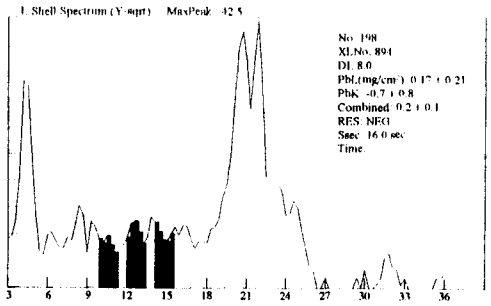

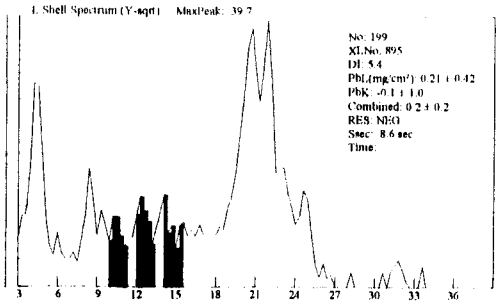

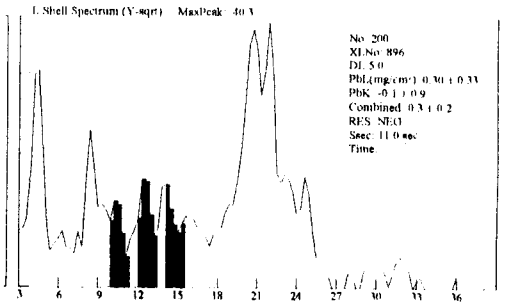

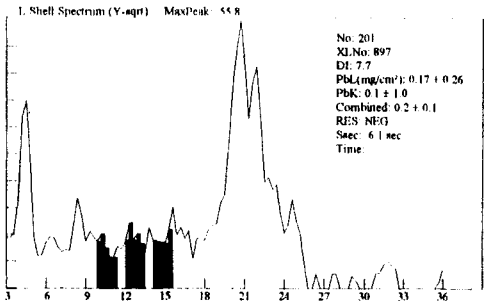

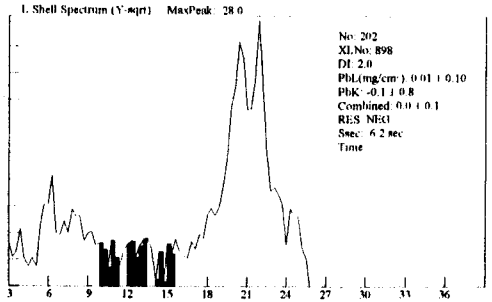

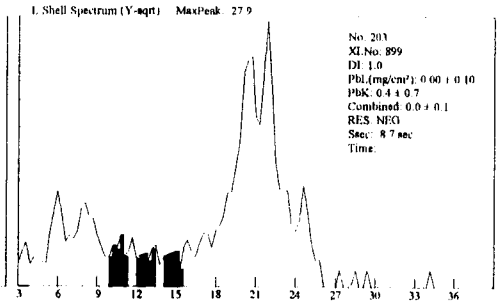

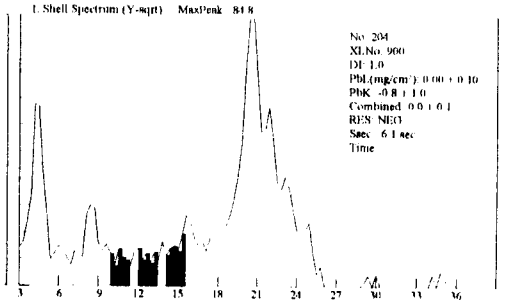

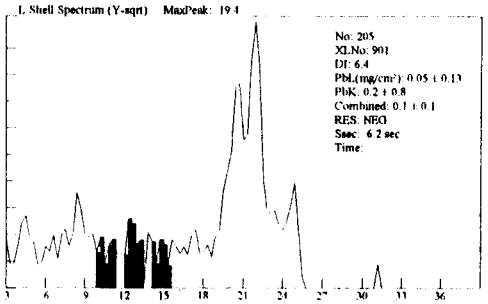

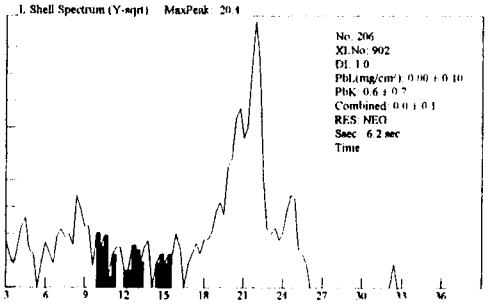

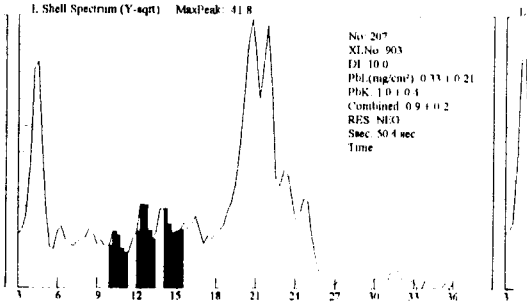

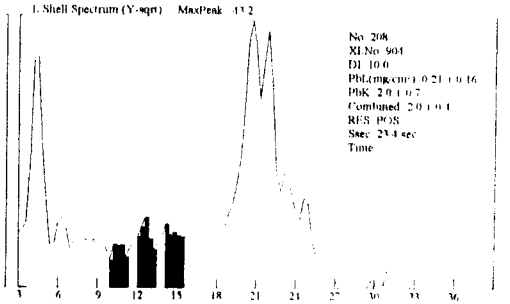

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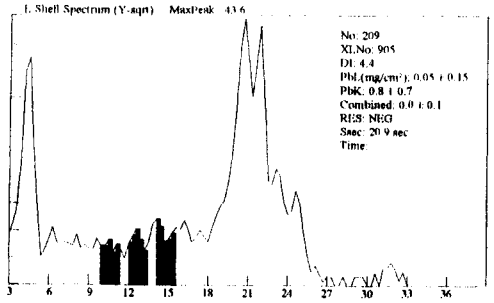

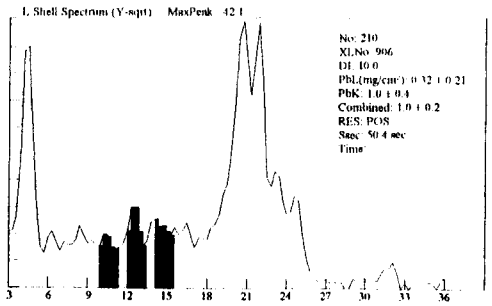

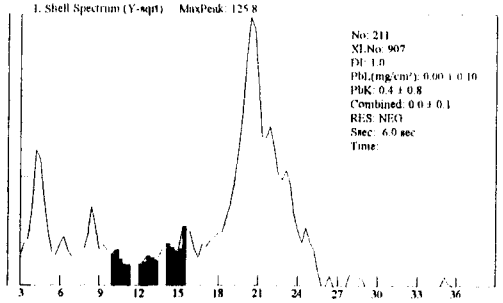

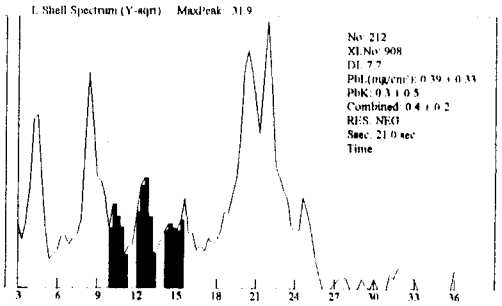

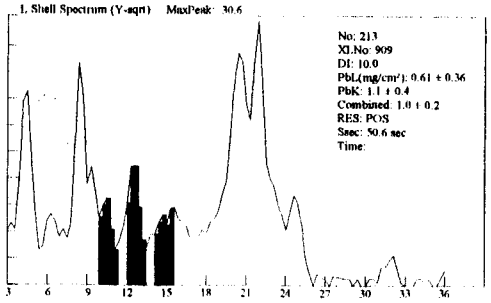

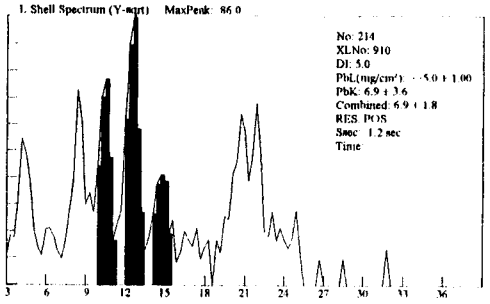

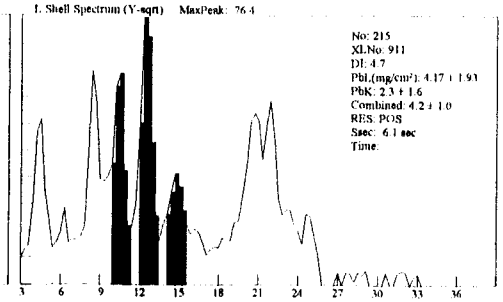

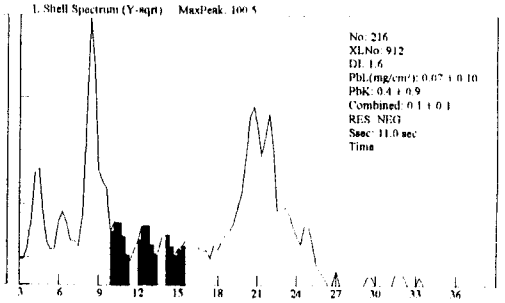

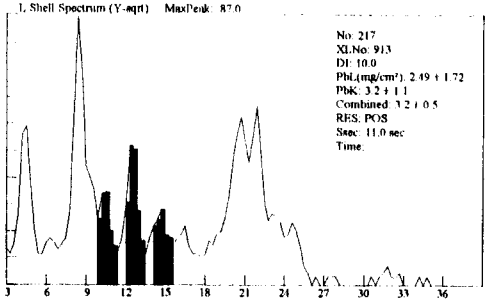

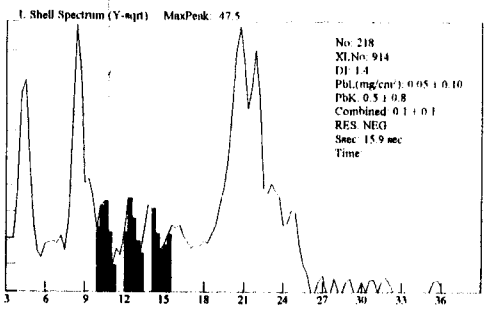

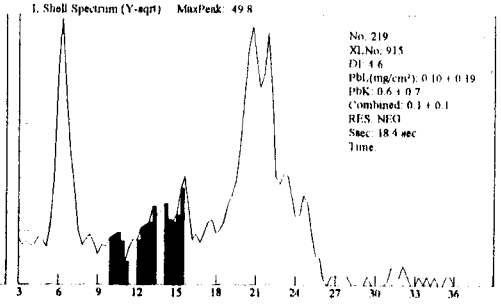

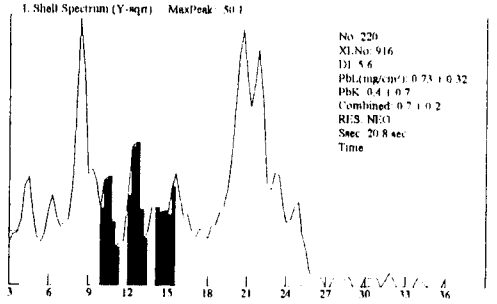

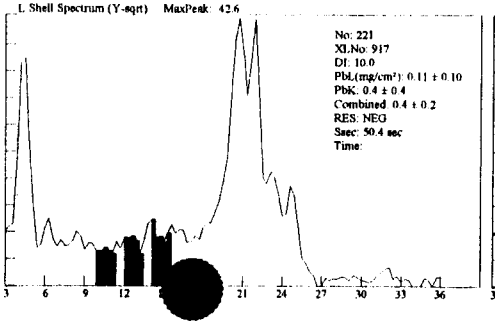

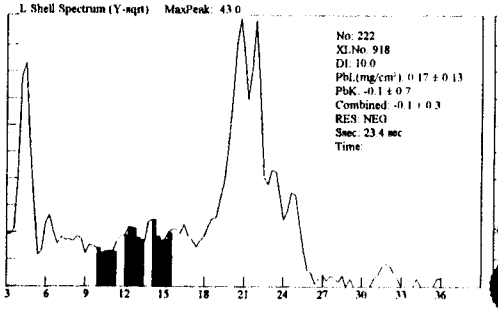

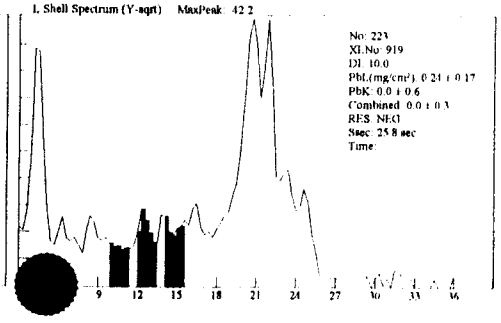

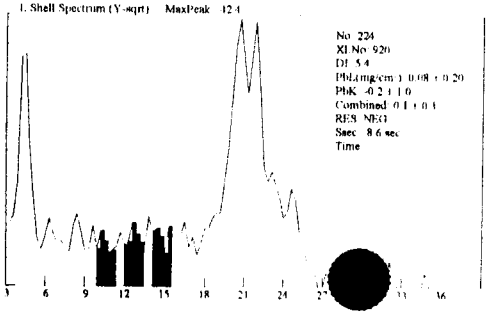

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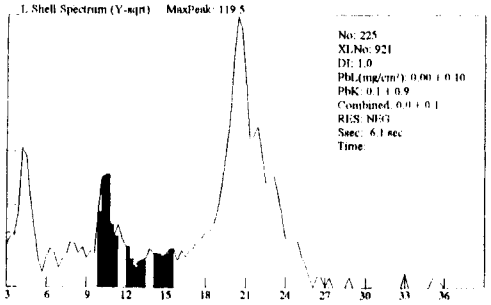

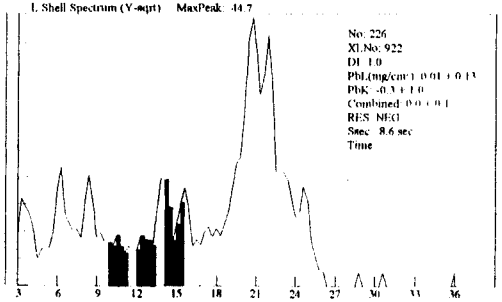

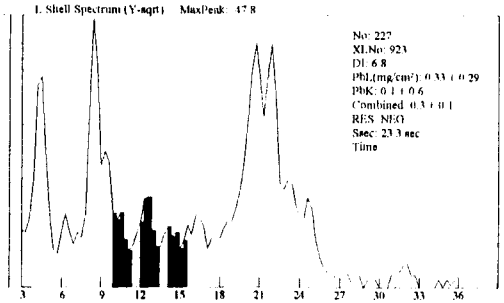

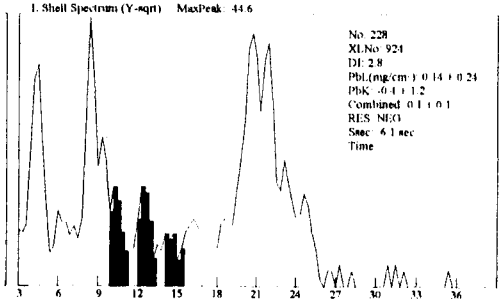

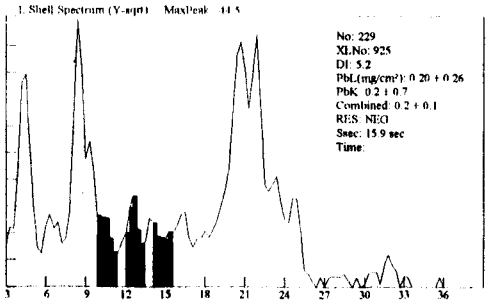

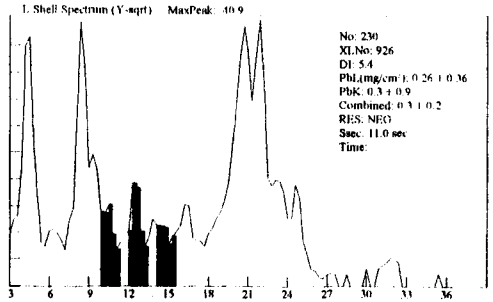

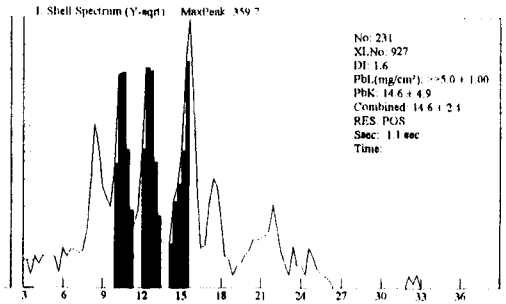

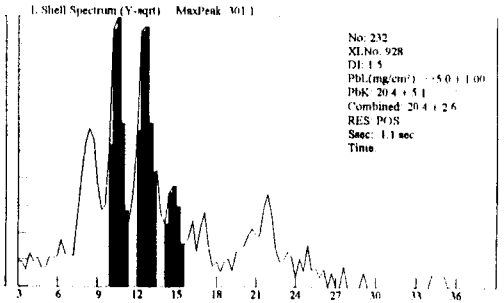

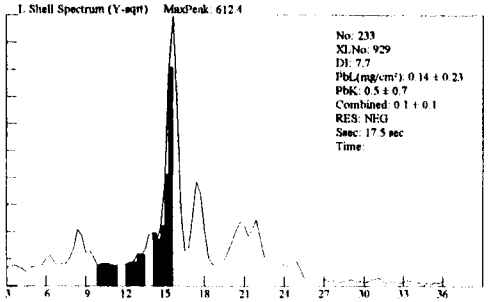

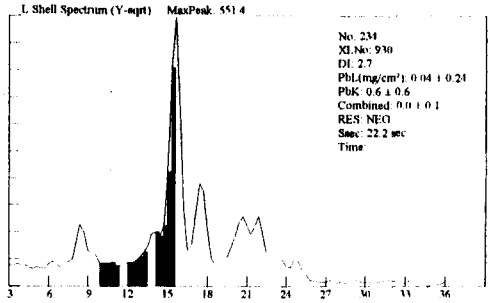

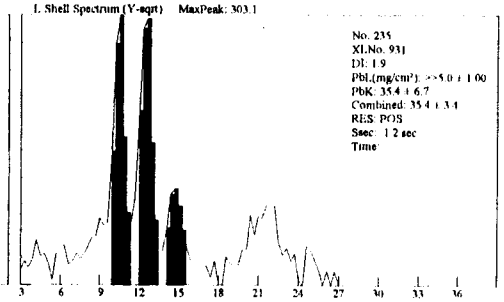

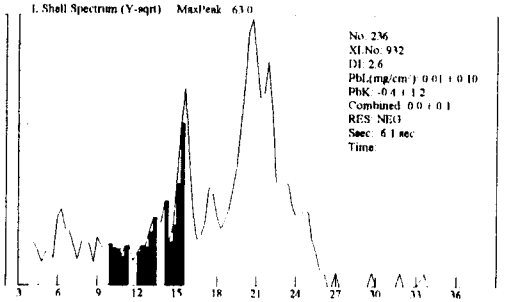

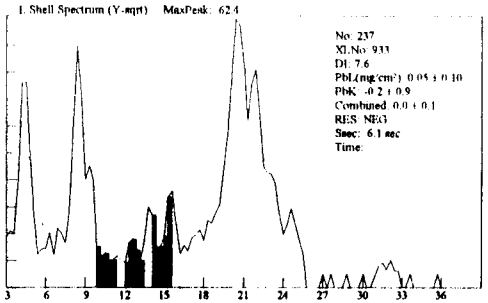

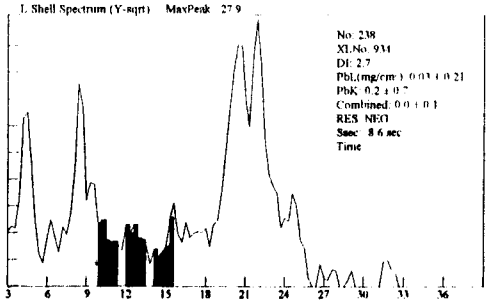

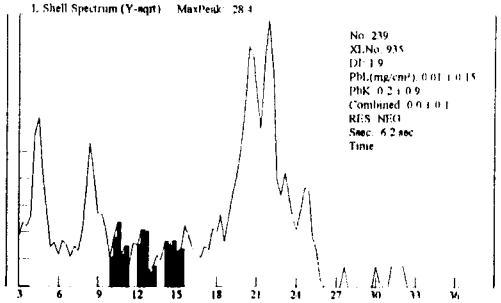

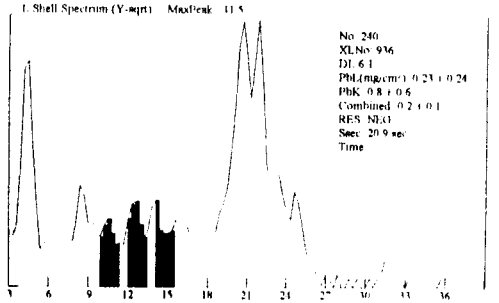

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Site: Ranges (NEG<INC<POS): Device PCS

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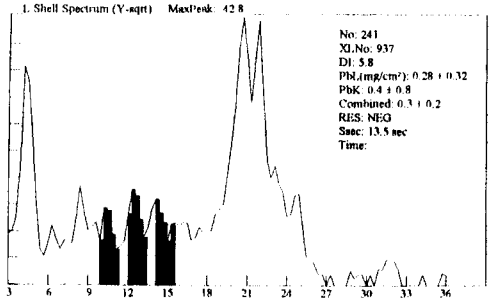

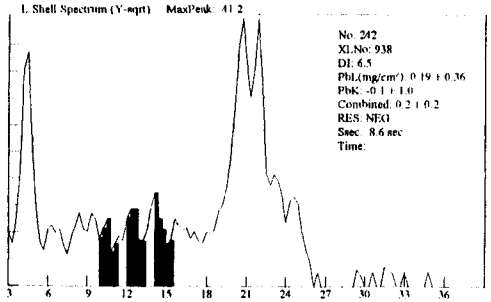

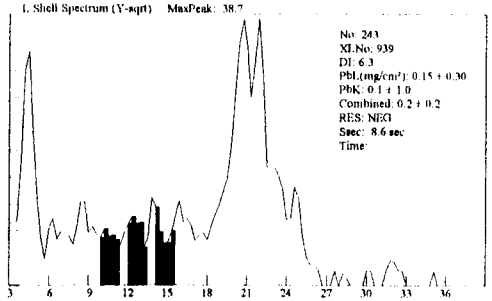

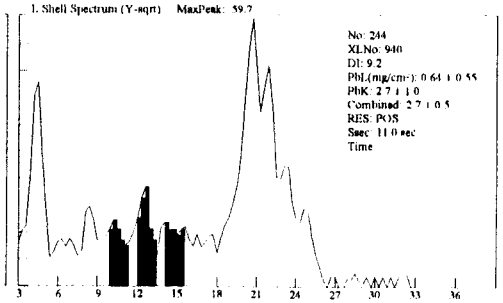

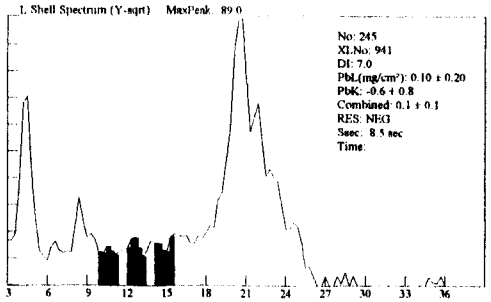

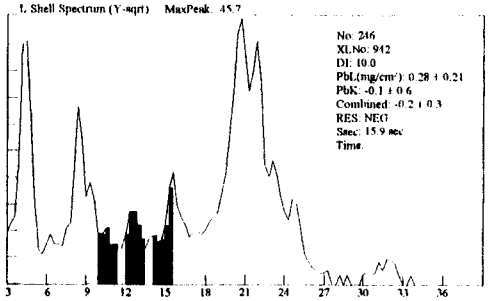

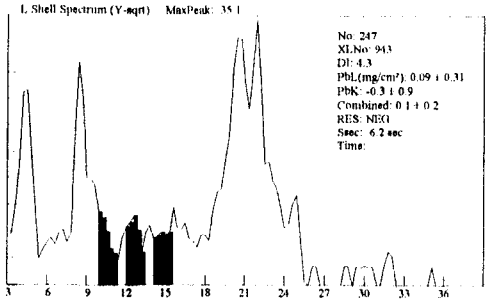

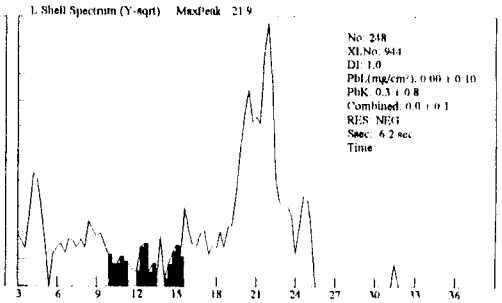

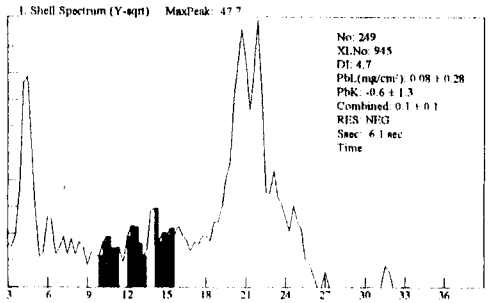

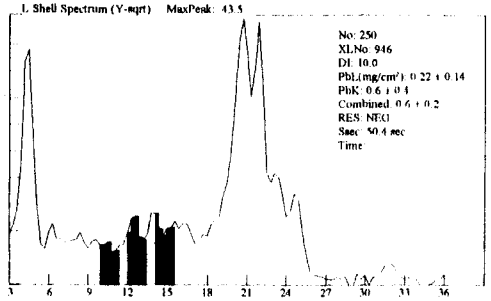

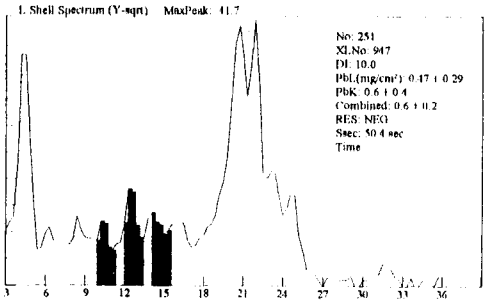

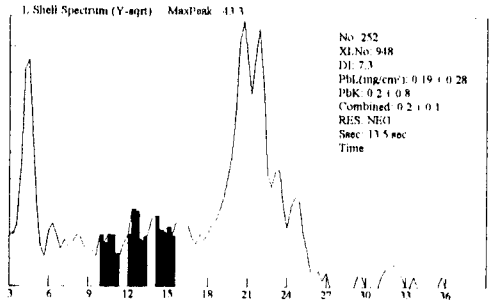

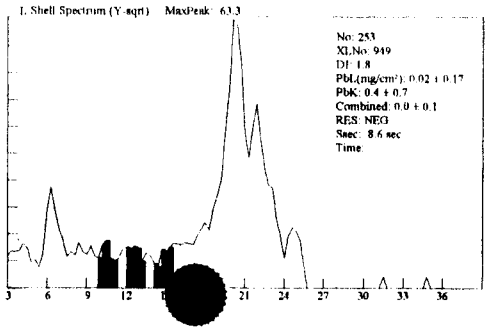

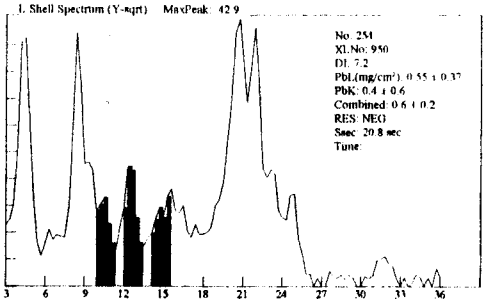

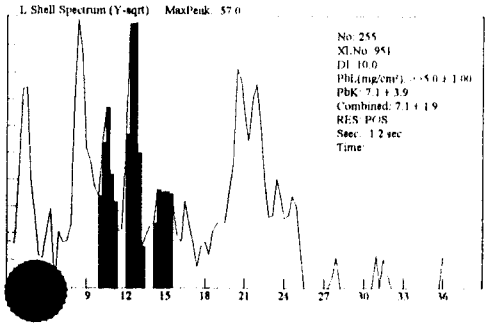

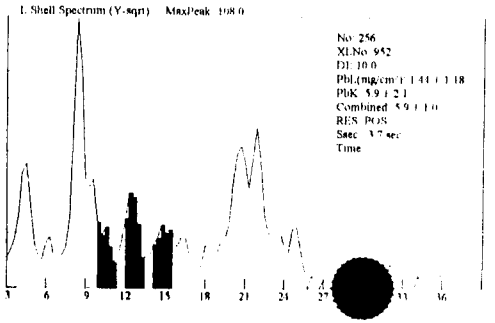

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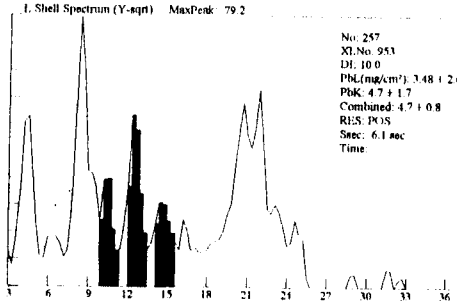
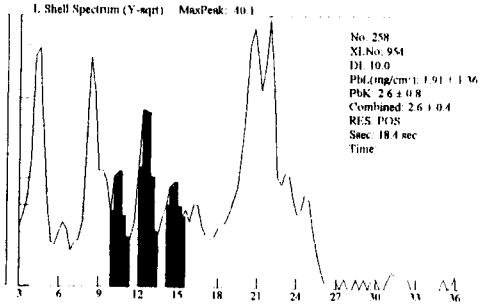
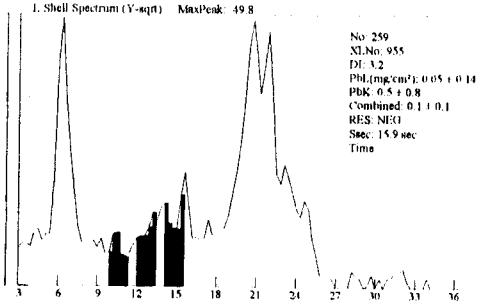
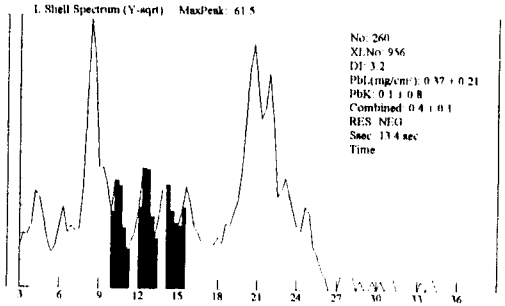
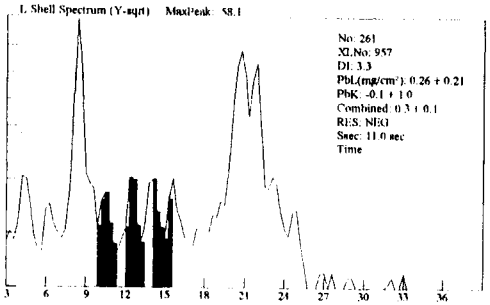
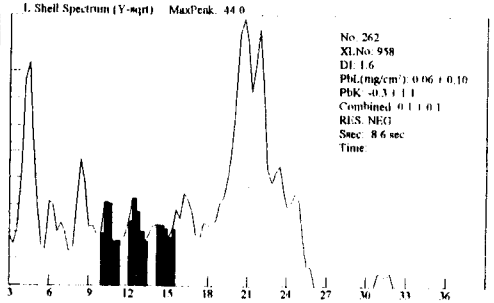


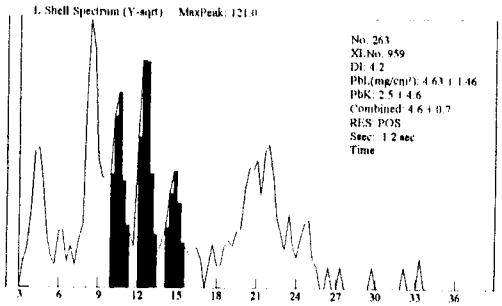


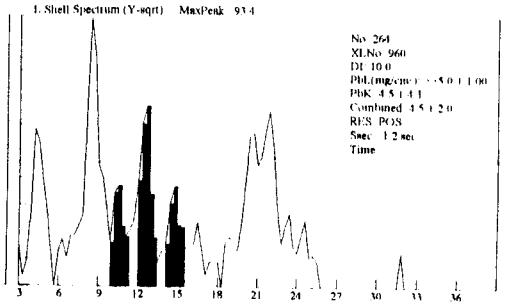


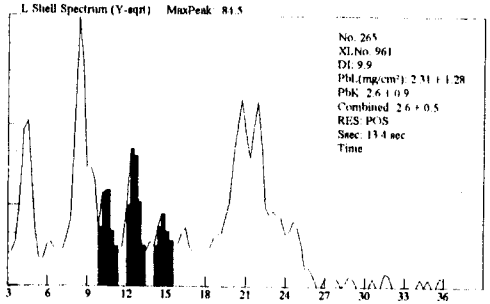


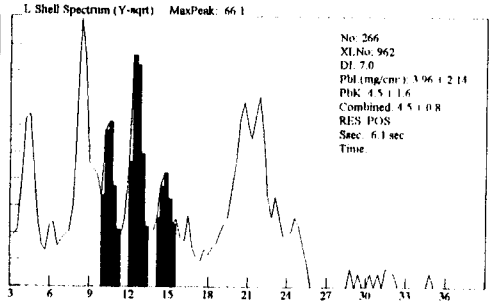












BUILDING 444

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 444

A lead-based paint inspection and risk assessment was conducted at Building 444, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

This building is unoccupied, abandoned, poorly maintained and has many missing building components, such as windows and doors. For the exact missing components and their locations, see Form 5.1 (Building Condition Form) and the building layout diagram for this building. This building has an enclosed garage which is sometimes used by the next door neighbors to park their vehicles. This building is separated into two apartments, namely 444A and 444B; however, this report will represent both units as one building.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 237 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Thirty (30) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. In addition to the XRF readings, two paint chip samples were collected and analyzed to confirm the lead concentration of selected paints. The two paint chip analyzes confirmed the walls in the room no. 1 and room no. 3 were negative for elevated lead concentrations. According to the EPA, LBP is defined as paint containing a lead concentration greater the 0.5 percent lead by weight. The results of the XRF and the bulk paint chip analyses are summarized by building component in the following pages. The final laboratory reports for the bulk paint chip samples are provided in this report and are summarized in Table 3-2.

The presence of lead-based paint was found in Building 444. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

1. Entrance Columns
2. Garage Door
3. Garage Shelves
4. Laundry Room Walls
5. Laundry Room Shelves
6. Corner Den Bathroom Walls
7. Corner Den Bathroom Door & Jambs
8. Living Room Door Jambs
9. Living Room Closet Door
10. Kitchen Walls
11. Kitchen Ceramic Tiles
12. Kitchen Closet Shelve Bases
13. 2nd Floor Foyer Closet Door & Jambs
14. 2nd Floor Foyer Closet Shelves
15. Room No. 1 Door & Jambs

16. Room No. 1 Chair Rail
17. Room No. 1 Closet Door & Jambs
18. Room No. 1 Closet Shelves
19. Room No. 1 Balcony Door Jambs
20. Exterior Balcony Walls
21. Room No. 2 Door & Jambs
22. Room No. 2 Chair Rail
23. Room No. 2 Closet Door Jambs
24. Room No. 2 Closet Shelves
25. Bathroom Door & Jambs
26. Bathroom Tub
27. Room No. 3 Door & Jambs
28. Room No. 3 Chair Rail
29. Room No. 3 Closet Shelves & Base
30. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. To evaluate areas of dust within the housing unit, eighteen (18) wipe samples were collected, including fourteen interior wipes, three entrance wipes, and one control wipe sample. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. Fourteen (14) of the wipe samples (eleven interior wipes and three entrance wipes) were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. The soil sample was reported to contain an elevated lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Deteriorated lead-based paint and leaded dust in room no. 1
3. Deteriorated lead-based paint and leaded dust in room no. 2
4. Deteriorated lead-based paint and leaded dust in room no. 3
5. Deteriorated lead-based paint and leaded dust in laundry room
6. Leaded dust throughout the kitchen, den, living room, porches, and foyer
7. Deteriorated exterior walls
8. Deteriorated paint in doors and frames
9. Leaded dust in building front and back entrances
10. Lead-in-the-soil surrounding the housing unit

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in severe condition. The paint deterioration is house-wide, and there are many building components, which contain lead-based paint. The majority of the painted items are deteriorated due to impact, moisture, and water due to the many missing building components, namely windows and doors. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Dust levels were reported to be very high on all tested surfaces. DOD/EPA guidelines for dust hazards list the criterion level of 40 ug/sq. ft. Most samples were reported to be over 10 times higher than that level.
3. Immediate action should be taken to block all building entrances and thus avoid access to the building's interior by unauthorized personnel.
4. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust in the building's interior.
5. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
6. The soil lead level is above the level of 2,000 mg/kg for the surrounding bare soils in the roof dripline areas. It is recommend that immediate interim control measures be conducted to cover the bare soil, namely covering the bare soil with grass or other protective substances. Further testing should be conducted to determine if soil removal is needed.
7. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
8. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
9. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished. If the building were going to be used for family housing again, then removal would be the greatest deterrent of possible liability issues arising in the near future.
10. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
11. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
12. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

LEAD HAZARD CONTROL OPTIONS

1. The name of the individual (s) in charge of the lead based hazard control program is/are: _____, _____
2. Recommended changes to work order system and property management: (Items from number 2-7 of this section) The work order system of the BOP is activated by resident comments and requests, they do not actively have a program that addresses lead based paint and it's hazards. We recommend that before any work is performed on any painted surface, they verify in the report if this building component has lead based paint. If it does not, then proceed with the work. If it does then the work should be performed by personnel trained in lead based paint work, even if it is routine maintenance work. Work order forms shall be custom made to include a space where the person who verifies the presence or not of lead based paint signs confirming the research. A space will also be provided so the person who performs the work will acknowledge that his work was confined to those areas where there was no lead based paint.
3. If at any time work is performed by a qualified individual or firm, it is important to verify worker training and medical qualifications verification. Also the firms and individuals performing this work shall be registered with the PREQB Lead Program if abatement is to be performed. Please verify the PREQB rules included in this report.
4. Before any work is performed at this building the work areas will be sealed off so that the leaded dust does not enter any living areas. Any furniture present should be moved or covered with plastic.
5. If at ant time abatement is performed then clearance samples are required prior to reoccupy the housing unit. Other air monitoring requirements apply to workers, please verify the OSHA section of this report for additional information.
6. Ceramic floor and wall tiles, sinks, toilets and bathtubs are not considered a lead hazard, although they have high lead content. The only concern would be if the building is going to be demolished, then PREQB requires their removal prior to demolition. An exception may be if you are if you are going to sample and analyze the demolition debris by a TCLP sample prior to disposal. (A TCLP is a sample that characterises the materials for possible hazardous characteristics)
7. Both the residents and maintenance personnel should attend a general awareness class in lead based paint hazards. This class offers information on the use of HEPA vacuum cleaners, personal protective clothing, respirator use, medical surveillance and other lead related issues. Baker Environmental can assist in these classes.
8. The practice of examining the paint condition annually or upon vacancy is performed by the BOP, it should be continued.
9. Interim Control Options and Estimated Costs: (Items 9-17) The costs below include labor, materials, worker protection, site containment and cleanup.

These are only rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead based paint abatement contractor. Baker Environmental will be pleased to perform clearance testing after the work has been completed at your request.

10. To better calculate the amounts of linear feet, square feet, individual doors, frames, shelves or others; please refer to the approximate quantities information available in the sampling data sheet of this building report. Once you have these quantities then multiply by the unit prices that follow. (Example: Removal of lead based paint in all exterior building walls. Sample data sheet has a quantity of approximately 4,000 square feet @ $12.00 per square foot of removal = $48,000.00 for the removal of the exterior lead based paint of Building 444)
11. Lead Based Paint Removal (Mechanical or Chemical) $ 12.00 ft2
12. Lead Based Paint Encapsulation $ 6.00 ft2
13. Door Removal $175.00 ea
14. Door Frame Removal $ 85.00 ea
15. Ceramic Tile Removal $ 15.00 ft2
16. Shelf & Base Removal $ 55.00 ea
17. Baseboard Removal $ 10.00 lin ft
18. Reevaluation and Monitoring Schedule: Any of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead hazards do not appear. Keep in mind that encapsulation can only be considered permanent abatement if the encapsulant manufacturer and the "installer" can guarantee the product and it's application for twenty years. If this is not established then you have only an interim control which may be less expensive in the short run but more expensive than removal in the long run due to continuous reevaluation and monitoring. Removal methods need no reevaluation or additional monitoring. The owner should monitor the condition of the paint annually. A professional reevaluation is also needed. The standard schedule for reevaluating the dwelling is shown below.

Unadjusted Standard Reevaluation Schedules Recommended By HUD

Hazard Control Method	Standard Reevaluation Schedule[1]	Type of Reevaluation
Dust Removal	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Paint Film Stabilization	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Encapsulation	1 month, 6 months; annually thereafter	Visual Examination of Encapsulant Integrity
Enclosure	Annually	Visual Examination
Removal of All Lead-Based Paint	None	None
Building Component Replacement	None	None

[1] Taken from Table 6.1 of the HUD *Guidelines*.

Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program: When the US Navy decides the control options to put in place they will be incorporated into the evaluation report. When this is completed then it will be necessary to meet with anybody residing in the housing unit and explain this report to him/her. This is the time also to make formal delivery the EPA lead pamphlet which is part of this evaluation report. Once these have been done, then signatures of the risk assessor and the US Navy are required.

Signatures:

_____ _____

Department of the Navy Authorized Representative Date

_____ _____

Miguel A. Oliveras - Certified Inspector/Risk Assessor Date

When all the selected hazard control options have been completed then a Certificate of Lead Based Paint Compliance will be issued stating that "Either no lead based paint hazards were identified or all lead based paint hazards have been corrected.

BUILDING DATA

U. S. Navy Building 444

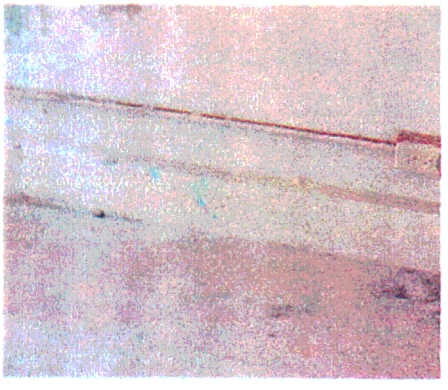
Photograph #1

Photograph #2

Photograph #3

Photograph #4

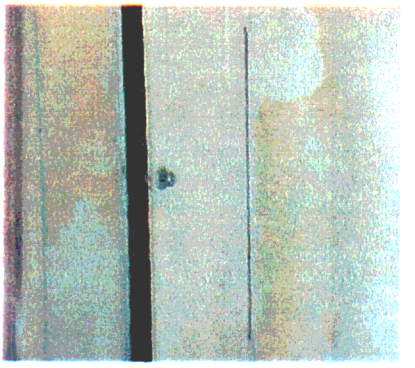
Photograph #5



Photograph #6

U. S. Navy Building 444

Photograph #7



Photograph #8

Photograph #9

Photograph #10

Photograph #11

Photograph #12

U. S. Navy Building 444

Photograph #13

Photograph #14

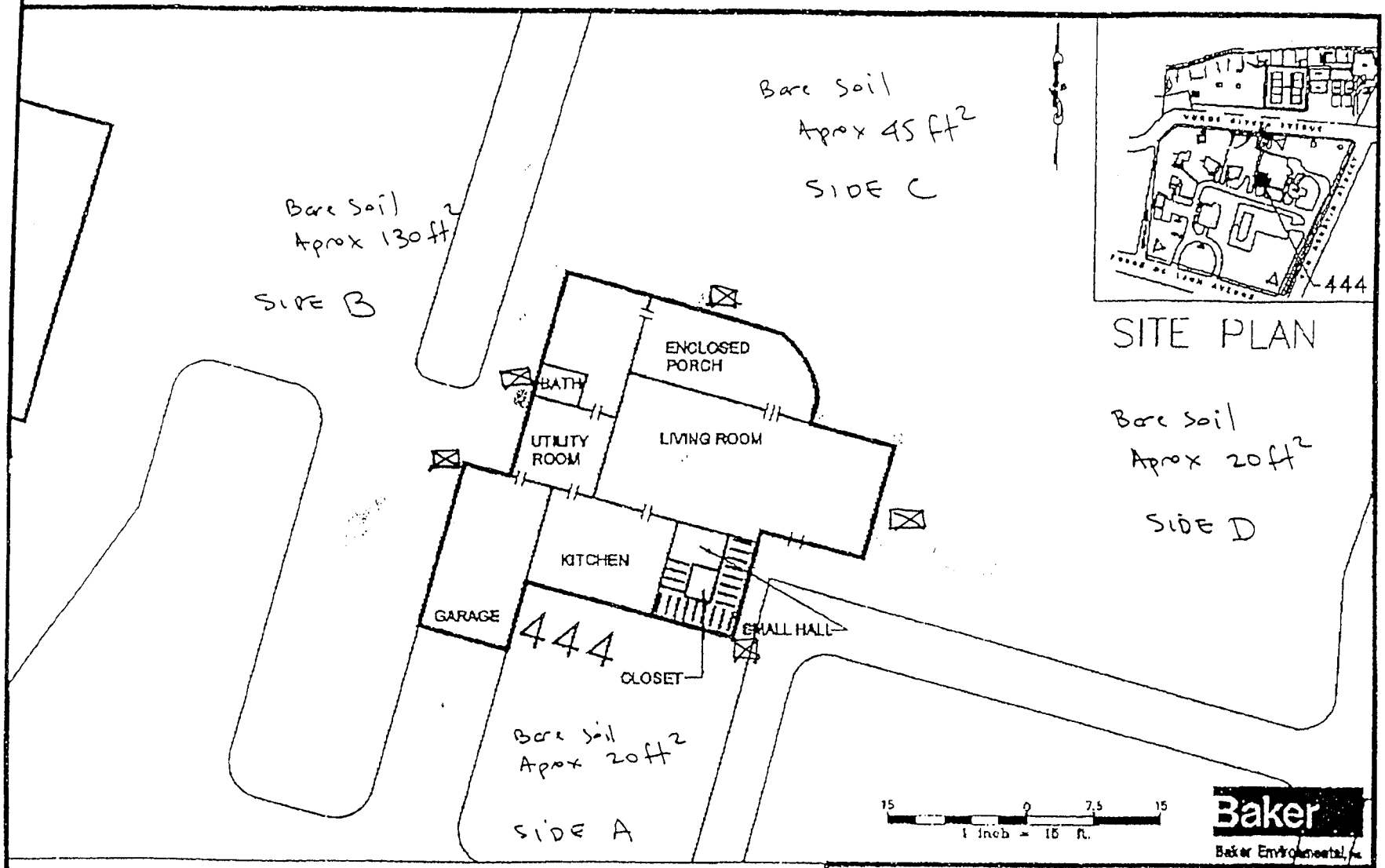
Building 444

Form 5.1
Building Condition Form

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks		X
Gutters or downspouts broken	X	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		N/A
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		X
Exterior siding has missing boards or shingles		N/A
Water stains on interior walls or ceilings	X	
Plaster walls or ceilings deteriorated	X	
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structure leans, or visibly unsound		X
* Total number	4	5

* If the "Yes" column has two or more checks, the dwelling is usually considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen.

Notes:



Bare Soil Quantities and Location

Composite Soil Sampling Locations

April 2000

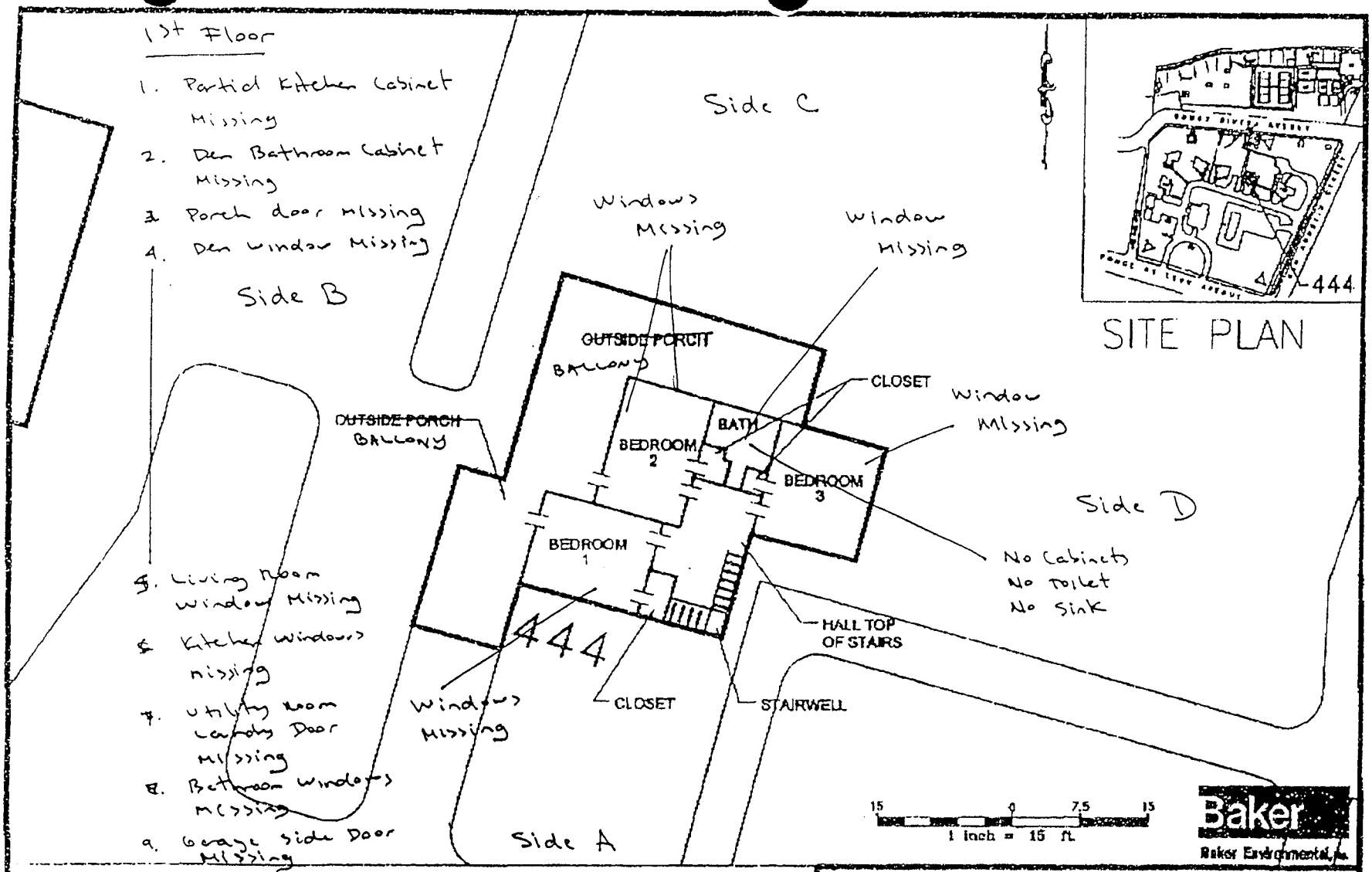
Miguel A Olivas

STOP 7-1/2 BUILDING 444 P/A
RESIDENT BUILDING UNOCCUPIED
~~SECOND~~ FIRST FLOOR
SAN JUAN, PUERTO RICO

62470L48 K:\62470\0019PHASE\GRAPHICS\DWG

1st Floor

1. Partial Kitchen Cabinet Missing
2. Den Bathroom Cabinet Missing
3. Porch door Missing
4. Den Window Missing
5. Living Room Window Missing
6. Kitchen windows missing
7. Utility Room Laundry Door Missing
8. Bathroom windows Missing
9. Garage side Door Missing



SITE PLAN

Missing Building Components
April 2000
Miguel A Oliveras

STOP 7-1/2 BUILDING 444B
RESIDENT BUILDING UNOCCUPIED
SECOND FLOOR

SAN JUAN, PUERTO RICO

BAKER EN\ ›NMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

PC = paint condition
DT = deterioration type
QTY = Quantity
LF = linear feet
ft = square feet

I = intact
F = fair
P = poor
FRI = friction
IMP = Impact
MOI = Moisture

444A

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-1131	Calibration test					1	444A	pos.		
PB-1132	Calibration test					1	444A	pos.		
PB-1133	Calibration test					1	444A	pos.		
PB-1134	Entrance garage outside column	(left)	white	A	concrete	1	444A	pos.		
PB-1135	Entrance garage outside column	(right)	white	A	concrete	1	444A	pos.		
PB-1136	Entrance garage outside over top		white	A	concrete	1	444A	pos.		
PB-1137	Garage door	69 FT	white	A	wood	1	444A	pos.	P	MOI
PB-1140	Outside wall garage		white	B	wood	1	444A	pos.		
PB-1141	Outside wall garage		white	C	wood	1	444A	pos.		
PB-1142	Outside wall garage		white	D	wood	1	444A	pos.		
PB-1147	Inside garage shelve	45 FT	white	C	metal	1	444A	pos.	F	IMP
PB-1149	Laundry room wall	60 FT	bone white	A	concrete	1	444A	pos.	P	IMP
PB-1150	Laundry room wall	60 FT	bone white	B	concrete	1	444A	pos.	P	IMP
PB-1151	Laundry room wall	80 FT	bone white	C	concrete	1	444A	pos.	P	IMP
PB-1152	Laundry room wall	80 FT	bone white	D	concrete	1	444A	pos.	P	IMP
PB-1158	Laundry room wall shelve # 2	2 ea.	bone white	C	wood	1	444A	pos.	I	
PB-1162	Laundry room wall		yellow	D	concrete	1	444A	pos.		
PB-1169	Corner Den baseboard	40 LF	bone white	C	wood	1	444A	pos.	F	IMP
PB-1170	Corner Den bathroom wall	36 FT	bone white	A	concrete	1	444A	pos.	F	IMP
PB-1173	Corner Den bathroom wall	40 FT	bone white	D	concrete	1	444A	pos.	F	IMP
PB-1174	Corner Den bathroom wall		white	A	concrete	1	444A	pos.		
PB-1175	Corner Den bathroom wall		white	D	concrete	1	444A	pos.		

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LEAD INSPECTION

SAMPLING DATA SHEET

444A

PC = paint condition — I: intact
DT = deterioration type — F: fair
QTY = Quantity — P = poor
Lf = linear feet — FRI: frictio
ft = square feet — IMP = Impact
MoI: Moistur

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-1176	Corner Den bathroom door	1 ea.	bone white	C	wood	1	444A	pos.	INT	
PB-1177	Corner Den bathroom door sidejam	1 ea	bone white	C	wood	1	444A	pos.	F	FRI
PB-1178	Corner Den bathroom door headjam	1 ea	bone white	C	wood	1	444A	pos.	F	FRI
PB-1191	Calibration test					1	444A	pos.		
PB-1192	Calibration test					1	444A	pos.		
PB-1193	Calibration test					1	444A	pos.		
PB-1201	Living room door sidejam	2 ea	bone white	C	wood	1	444A	pos.	F	FRI
PB-1202	Living room door headjam	1 ea	bone white	C	wood	1	444A	pos.	F	FRI
PB-1212	Living room closet door	1 ea	bone white	A	wood	1	444A	pos.	F	FRI
PB-1215	Kitchen wall	70 ft	white	A	concrete	1	444A	pos.	F	MOI
PB-1216	Kitchen wall	50 ft	white	B	concrete	1	444A	pos.	I	
PB-1217	Kitchen wall	40 ft	white	C	concrete	1	444A	pos.	I	
PB-1219	Kitchen wall ceramic tile 4" x4"		white	D	concrete	1	444A	pos.		
PB-1220	Kitchen CFT 12" x12"		white	floor	concrete	1	444A	pos.		
PB-1225	Kitchen shelve base	9 lf	white	D	metal	1	444A	pos.	I	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1131	Sampling validation						p	
1132	" "						p	
1133	" "						p	
1134	Entrance outside garage column (left)	white	A	concrete	1		p	5.9
1135	" " outside (right	" "	A	"	1		p	4.0
1136	" " outside (over the top	" "	A	"	1		p	1.7
1137	garage door	" "	A	wood	1		p	7.4
1138	garage door sidejam	" "	A	" "	1		n	
1139	headjam	" "	A	" "	1		n	
1140	outside wall garage		B		1		p	6.3
1141	" "		~~D~~ C		1		p	4.6
1142	outside wall garage		~~A~~ D		1		p	9.7
1143	" "		~~B~~ A		1		n	~~D~~
1144	" "		~~C~~ B		1		n	
1145	" "		~~D~~ C				n	
1146	" "		D				n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1147	Inside garage shelve 1	white	C	metal	1		p	1.10
1148	" " #2	" "	C	wood	1		n	
1149	Laundry room wall	Bone white	A	concrete	1		p	8.7
1150	" "		B	" "	1		p	5.6
1151	" "		C	" "	1		p	13
1152	" "		D	" "	1		p	9.1
1153	outside Laundry door	white	B	wood	1		n	
1154	" " side jam	" "	B	" "	1		n	
1155	" " head jam	" "	B	" "	1		n	
1156	Laundry room window case	" "	B		1		n	
1157	" " window rail	" "	B		1		n	
1158	Laundry room shelve #2	Bone white	C		1		p	4.5
1159	Laundry door inside	Brown	C	wood	1		n	
1160	" " sidejam	white	C	" "	1		n	
1161	" " headjam	white	C	" "	1		n	
1162	Laundry room wall	yellow	D	concrete	1		p	9.2

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1163	corner den wall	Bone white	A	Concrete	1		n	
1164	" "		B	" "	1		n	
1165	" "		C	" "	1		n	
1166	" "		D	" "	1		n	
1167	ceramic FT 8 X 8	dark cream		ceramic	1		n	
1168	corner den wall (over door	Bone white (lighter)	D	concrete	1		n	
1169	corner den baseboard	Bone white	C	wood	1		p	7.9
1170	corner den bathroom wall	Bone white	A	concrete	1		p	4.5
1171	" "	" "	B	" "	1		n	
1172	" "	" "	C	" "	1		n	
1173	" "	" "	D	" "	1		p	4.9
1174	" "	white	A	" "	1		p	9.2
1175	" "	" "	D	" "	1		p	2.2
1176	corner den bathroom door	Bone white	C	wood	1		p	5.7
1177	" side jam	" "	C	wood	1		p	1.9
1178	" head jam		C	wood	1		p	4.8

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1179	corden door	Brown	D	wood	1		n
1180	" " side jam	" "	D	" "	1		n
1181	Head jam	" "	D	" "	1		n
1182	porch wall	Bone White	A	concrete	1		n
1183	" "	" "	B	" "	1		n
1184	" "	" "	C	" "	1		n
1185	window case porch #4	" "	D	wood	1		n
1187	porch window rail #4	" "	D	wood	1		n
1188	FT 8x8 porch	red	floor	ceramic	1		n
1189	porch outside door	white	D	wood	1		n
1190	" " side jam	" "	D	" "	1		n
~~1191~~	~~" " Head jam~~	" "	~~D~~	" "	1		
1191	calibration				1		p
1192	" "				1		p
1193	" "						p

444A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1194	Outside door - Porch Head Jam	white	D	wood	1		neg	
1195	living room wall	Bone white	A	concrete	1		neg	
1196	" "	" "	B	" "	1		N	
1197	" "	" "	C	" "	1		N	
1198	" "	" "	D	" "	1		N	
1199	living room FT 8x8	green		Ceramic	1		N	
1200	living room door	bone white	C	wood	1	444	N	
1201	living room door jamb	bone white	C	wood	1	"	POS	3.5
1202	" door head	"	"	"	"	"	POS	3.4
1203	living room baseboard	"	C	conc	1	"	N	
1204	living room entrance door	wood	A	wood	"	"	N	
1205	living room door jamb	wood	A	"	"	"	N	
1206	" head jamb	"	"	"	"	"	N	
1207	living room wall closet (side A)	white	A	concrete	1		n	
1208	" "		B	" "	1		n	
1209	" "		C	" "	1		n	
1210	" "		D	" "	1		n	
1211	Shelve	white	B	wood	1		n	
1212	" " closet door	Bone white	A	wood	1		P	4.0
1213	side jam		A	" "	1		n	
1214	head jam		A	" "	1		n	

Pg 7	Description	color	side	cond.	Level	Bldg	pos/neg	
1215	Kitchen wall	white	A	concrete	1	444	p	4.9
1216	" "	" "	B	"	1	" "	p	4.8
1217	" "	" "	C	"	1	" "	p	4.8
1218	" "	" "	D	"	1	" "	p	
1219	Ceramic Tile 4x4	" "	D	ceramic	1	" "	p	16
1220	FT 12x12 V	white	floor	ceramic	1	" "	p	2.5
1221	Kitchen Cabinet	Brown	B	wood	1	" "	n	
1222	fuse box Kitchen	white	B	metal	1	"	N	
1223	Electric box	gray	B	metal	1	"	N	
1224	kitchen Shelve 2	white	D	wood	"	"	N	
1225	kitchen shelve base	white	D	metal	"	"	pos	1.5
1226	kitchen ceiling "cubrefelte"	white	A	wood	"	"	Neg	

BAKER E MENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

PC = paint condition
DT = deterioration type
QTY = Quantity
Lf = linear feet
ft = square feet

ntact
F: fair
P = poor
FRI: fricti
IMP: Impac
MoI: moistu

444B

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Serie	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-1554	Calibration					2	444B	pos.		
PB-1555	Calibration					2	444B	pos.		
PB-1556	Calibration					2	444B	pos.		
PB-1571	Foyer closet door	1 ea	white	A	wood	2	444B	pos.	I	
PB-1572	Foyer closet door side jamb	2 ea	white	A	wood	2	444B	pos.	F	FRI
PB-1573	Foyer closet door head jamb	1 ea	white	A	wood	2	444B	pos.	F	FRI
PB-1578	Foyer closet shelf # 3	30 ft	white	A	wood	2	444B	pos.	F	IMP
PB-1579	Foyer closet shelf base # 5	30 lf	white	A	wood	2	444B	pos.	F	IMP
PB-1580	Foyer baseboard	18 lf	white	C	wood	2	444B	pos.	P	MoI IMP
PB-1583	Room # 1 door	1 ea	white	D	wood	2	444B	pos.	P	IMP
PB-1584	Room # 1 side jamb	2 ea	white	D	wood	2	444B	pos.	P	FRI
PB-1585	Room # 1 head jamb	1 ea	white	D	wood	2	444B	pos.	P	IMP
PB-1591	Room # 1 chair rail	42 lf	white	B	wood	2	444B	pos.	F	MoI
PB-1592	Room # 1 wall (confirmation)	12 ft	beige	A	concrete	2	444B	pos.	P	IMP
PB-1593	Room # 1 closet door	1 ea	white	D	wood	2	444B	pos.	P	MoI
PB-1594	Room # 1 closet door side jamb	2 ea	white	D	wood	2	444B	pos.	F	FRI
PB-1595	Room # 1 closet door head jamb	1 ea	white	D	wood	2	444B	pos.	F	FRI
PB-1600	Room # 1 closet shelf # 5	5 ea	white	A	wood	2	444B	pos.	I	
PB-1601	Room # 1 closet shelf base # 4	5 lf	white	A	wood	2	444B	pos.	I	
PB-1606	Room #1 balcony door side jamb	2 ea	white	D	wood	2	444B	pos.	P	MoI
PB-1607	Room #1 balcony door head jamb	1 ea	white	D	wood	2	444B	pos.	P	FRI
PB-1611	Balcony wall		white	C	concrete	2	444B	pos.		

BAKER EI :ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

444B

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Serie	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-1554	Calibration					2	444B	pos.		
PB-1555	Calibration					2	444B	pos.		
PB-1556	Calibration					2	444B	pos.		
PB-1571	Foyer closet door	1 ea	white	A	wood	2	444B	pos.	I	
PB-1572	Foyer closet door side jamb	2 ea	white	A	wood	2	444B	pos.	F	FAI
PB-1573	Foyer closet door head jamb	1 ea	white	A	wood	2	444B	pos.	F	FAI
PB-1578	Foyer closet shelf # 3	30 ft	white	A	wood	2	444B	pos.	F	IMP
PB-1579	Foyer closet shelf base # 5	30 lf	white	A	wood	2	444B	pos.	F	IMP
PB-1580	Foyer baseboard	18 lf	white	C	wood	2	444B	pos.	P	NOI IMP
PB-1583	Room # 1 door	1 ea	white	D	wood	2	444B	pos.	P	IMP
PB-1584	Room # 1 side jamb	2 ea	white	D	wood	2	444B	pos.	P	FAI
PB-1585	Room # 1 head jamb	1 ea	white	D	wood	2	444B	pos.	P	IMP
PB-1591	Room # 1 chair rail	42 lf	white	B	wood	2	444B	pos.	F	NOI
PB-1592	Room # 1 wall (confirmation)	12 ft	beige	A	concrete	2	444B	pos.	~~P~~	~~IMP~~ → Negatic confirm by chip result p. 444-0
PB-1593	Room # 1 closet door	1 ea	white	D	wood	2	444B	pos.	P	NOI
PB-1594	Room # 1 closet door side jamb	2 ea	white	D	wood	2	444B	pos.	F	FAI
PB-1595	Room # 1 closet door head jamb	1 ea	white	D	wood	2	444B	pos.	F	FAI
PB-1600	Room # 1 closet shelf # 5	5 ea	white	A	wood	2	444B	pos.	I	
PB-1601	Room # 1 closet shelf base # 4	5 lf	white	A	wood	2	444B	pos.	I	
PB-1606	Room #1 balcony door side jamb	2 ea	white	D	wood	2	444B	pos.	P	NOI
PB-1607	Room #1 balcony door head jamb	1 ea	white	D	wood	2	444B	pos.	P	FAI
PB-1611	Balcony wall		white	C	concrete	2	444B	pos.		

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

444B

Client Name: Department of the Navy	Project Name: U.S. Navy Stop 7 1/2 Naval Reservation
Sampling Method: NITON XRF 700 Serie	Job: USN-01 / Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-1612	Balcony wall		white	D	Concrete	2	444 B	pos.		
PB-1613	Balcony wall (confirmation)		white	A	Concrete	2	444 B	pos.		
PB-1614	Balcony wall (confirmation)		white	B	Concrete	2	444 B	pos.		
PB-1616	Room #2 door	1 ea.	white	D	Wood	2	444 B	pos.	F	FL1
PB-1617	Room #2 door side jamb	2 ea	white	D	Wood	2	444 B	pos.	F	FM
PB-1618	Room #2 door head jamb	1 ea	white	D	Wood	2	444 B	pos.	F	FM
PB-1624	Room #2 chair rail	40 lf	bone white	A	Concrete	2	444 B	pos.	F	NO1
PB-1627	Calibration						444 B	pos.		
PB-1637	Room #2 closet door side jamb	2 ea	white	D	Wood	2	444 B	pos.	F	FM
PB-1638	Room #2 closet door head jamb	1 ea	white	D	Wood	2	444 B	pos.	F	FM
PB-1644	Room #2 closet shelf #4	5 ea	bone white	A	Wood	2	444 B	pos.	I	
PB-1645	Room #2 closet shelf base #4	5 lf	bone white	A	Wood	2	444 B	pos.	I	
PB-1648	Bathroom door exterior	1 ea	white		Wood	2	444 B	pos.	F	FM
PB-1649	Bathroom door interior		white	C	Wood	2	444 B	pos.		
PB-1650	Bathroom door side jamb	2 ea	white	A	Wood	2	444 B	pos.	F	MR1
PB-1651	Bathroom door head jamb	1 ea	white	A	Wood	2	444 B	pos.	F	FM
PB-1658	Bathroom tub		white	D	Metal	2	444 B	pos.		
PB-1659	Room #3 door exterior	1 ea	white	B	Wood	2	444 B	pos.	F	FM
PB-1660	Room #3 door side jamb	2 ea	white	B	Wood	2	444 B	pos.	F	FM
PB-1661	Room #3 door head jamb	1 ea	white	B	Wood	2	444 B	pos.	F	FM
PB-1662	Room #3 door interior seeing 1659	1 ea	white	B	Wood	2	444 B	pos.		
PB-1668	Room #3 chair rail	50 lf	bone white	D	Wood	2	444 B	pos.	F	NO1

BAKER I .RONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

444B

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Serie	Job: USN-01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	COND.	FLOOR	BLDG.	POS. / NEG.	PC	DT
PB-1669	Room #3 baseboard	52 lf	white	B	Wood	2	444 B	pos.	P	M
PB-1670	Room #3 closet door exterior	1 ea	white	B	Wood	2	444 B	pos.	F	IMP
PB-1671	Room #3 closet door interior		white	B	Wood	2	444 B	pos.		
PB-1672	Room #3 closet door side jamb	2 ea	white	B	Wood	2	444 B	pos.	F	FM
PB-1673	Room #3 closet door head jamb	1 ea	white	B	Wood	2	444 B	pos.	F	FM
PB-1678	Room #3 closet shelf #5	5 ea	bone white	C	Wood	2	444 B	pos.	F	IMP
PB-1679	Room #3 closet shelf base #5	5 lf	bone white	C	Wood	2	444 B	pos.	I	IMP
PB-1683	Exterior wall		white	D	Concrete	2	444 B	pos.	P	MOI
PB-1686	Exterior wall	4,000	white	B	Concrete	2	444 B	pos.	P	MOI
PB-1689	Exterior wall (confirmation)	ft	white	A	Concrete	2	444 B	pos.		
PB-1691	Exterior wall (confirmation)		white	C	Concrete	2	444 B	pos.		

- Muriscoto 15Apr00 Manai + Mugsh

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1554	validation						P
1555	✓						P
1556	✓						P
1557	stairway step CT	green	A	ceramic	1	444B	n
1558	" " riser	✓	✓	✓	1	✓	n
1559	stairway railing	fusha	A	wood	1	✓	n
1560	" " wall	Bone white	A	concrete	1	✓	n
1561	" "	✓	B	✓	1	✓	n
1562	" "	✓	C	✓	1	✓	n
1563	" "	✓	D	✓	2	✓	n
1564	Crystal block joint compound	white	D	✓	2	✓	n
1565	2nd floor foyer	Bone white	A	✓	2	✓	n
1566	" "	✓	B	✓	2	✓	n
1567	✓	✓	C	✓	2	✓	n
1568	✓	white	C	✓	2	✓	n
1569	✓	Bone white	D	✓	2	✓	n
1570	✓	yellow strip	D	✓	2	✓	n

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1571	closet foyer 2nd floor door	white	A	wood	2	444B	p	4.8
1572	side jam	✓	✓	✓	✓	✓	p	2.0
1573	Head jam	✓	✓	✓	✓	✓	p	1.9
1574	closet wall Foyer	white	A	concrete	✓	✓	n	
575	✓	✓	B	✓	✓	✓	n	
1576	✓	✓	C	✓	✓	✓	n	
1577	✓	✓	D	✓	✓	✓	n	
1578	" " shelve #3	✓		wood	✓	✓	p	5.6
1579	" " " shelve base #5	✓		✓	✓	✓	p	3.4
1580	foyer baseboard	white	C	wood	✓	✓	p	6.5
1581	C7 8x8 Foyer	dark cream	floor	ceramic	✓	✓	n	
1582	foyer Breaker panel	Bone white	C	metal	✓	✓	n	
1583	Room #1 door	white	D	wood	✓	✓	p	9.5
1584	" " Side Jam	" "	D	✓	✓	✓	p	9.0
1585	" " Head Jam	" "	✓	✓	✓	✓	p	6.2

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1586	Room #1 wall	Blue	A	Concrete	2	444B	n	
1587	" "	✓	B	✓	✓	✓	n	
1588	" "	✓	C	✓	✓	✓	n	
1589	" "	✓	D	✓	✓	✓	n	
1590	" " Baseboard	white	B	wood	✓	✓	n	
1591	" " chair rail	✓	B	✓	✓	✓	p	6.0
1592	" " wall (confirmation)	Badge	A	concrete	✓	✓	p	1.8
1593	Room #1 closet door	white	D	wood	✓	✓	p	7.3
1594	" " side jam	✓	✓	✓	✓	✓	p	4.1
1595	" " Head jam	✓	✓	✓	✓	✓	p	4.9
1596	Room #1 closet wall	white	A	concrete	✓	✓	n	
1597	✓	✓	B	✓	✓	✓	n	
1598	✓	✓	C	✓	✓	✓	n	
1599	✓	✓	D	✓	✓	✓	n	
~~1575~~	" "							
1600	Shelve #5	✓	A	wood	✓	✓	p	3.9
	Shelve base #4	✓	✓	✓	✓	✓	p	6.0
1602	Closet floor	✓	floor	concrete	✓	✓	n	
1603	Closet Box electric	white	B	metal	✓	✓	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1604	Room #1 FT 8x8	Dark cream	floor	ceramic	2	444B	n	
1605	Balcony door interior	white	D	wood	✓	✓	n	
1606	" " side jam	✓	✓	✓	✓	✓	p	4.3
1607	Head jam	✓	✓	✓	✓	✓	p	8.6
08	Balcony door exterior	✓	✓	✓	✓	✓	n	
1609	Balcony wall	white	A	concrete	✓	✓	n	
1610	" "	✓	B	✓	✓	✓	n	
1611	" "	✓	C	✓	✓	✓	p	2.2
1612	✓	✓	D	✓	✓	✓	p	2.4
1613	✓ confirmation	✓	A	✓	✓	✓	p	6.2
1614	✓ " "	✓	B	✓	✓	✓	p	5.5
1615	FT 6 x12 Balcony	Terracotta	floor	Ceramic	✓	✓	n	
1616	Room #2 door	white	D	wood	✓	✓	p	6.3
1617	side jam	" "	✓	✓	✓	✓	p	5.9
1618	Head jam	✓	✓	✓	✓	✓	p	9.7

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1619	Room #2 wall	Peach	A	concrete	2	444B	n
1620	" "	✓	B	✓	✓	✓	n
1621	✓	✓	C	✓	✓	✓	n
1622	✓	✓	D	✓	✓	✓	n
1623	3/4 " " wall upper part	Bone white	A	✓	✓	✓	n
1624	" " chair rail	"	A	wood	✓	✓	p 2.6
1625	" " wall	white	B	concrete	✓	✓	n
1626	" "	Bone white	C	✓	✓	✓	none
1627	calibration validation	—	—	—	—	—	p
1628	upper part wall	Bone white	C	✓	✓	✓	n
1629	" "	white	C	✓	✓	✓	n
1630	" "	Bone white	D	✓	✓	✓	n
1631	Room #2 door	white	B	wood	✓	✓	n
1632	side jam	✓	✓	✓	✓	✓	n
1633	Head jam	✓	✓	✓	✓	✓	n
1634	Room #2 Baseboard	white	A	wood	✓	✓	n

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1635	Room #2 FT 8x8	Dark Cream	Floor	Ceramic	2	444B	n	
1636	Room #2 closet door (ext)	white	D	wood	✓	✓	n	
1637	" " side jam	✓	✓	✓	✓	✓	p	5.9
1638	" " head jam	✓	✓	✓	✓	✓	p	6.2
39	closet door interior	✓	✓	✓	✓	✓	n	
1640	Closet wall	Bone white	A	concrete	✓	✓	n	
1641	✓	✓	B	✓	✓	✓	n	
1642	✓	✓	C	✓	✓	✓	n	
1643	✓	✓	D	✓	✓	✓	n	
1644	" " shelve #4	✓	A	wood	✓	✓	p	3.6
1645	" " shelve base #4	✓	C	✓	✓	✓	p	4.6
1646	" ~~wh~~ " floor	white	Floor	concrete	✓	✓	n	
1647	closet electrical BOX	Bone white	C	metal	✓	✓	n	
1648	Bathroom door exterior	white		wood	✓	✓	p	5.4
1649	" " interior	✓	✓	✓	✓	✓	p	4.0

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

4 6/4B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1650	Bathroom door side jam	white	A	wood	2	444B	P	7.2
1651	Head jam	white	A	✓	2	✓	P	4.6
1652	Bathroom wall ½ toceiling	Badge	B	concrete	✓	✓	N	
1653	✓	✓	✓	✓	✓	✓	N	
1654	✓	white ✓	✓	✓	✓	✓	n	
1655	✓	Badge ✓	C	✓	✓	✓	n	
1656	✓	✓	D	✓	✓	✓	n	
1657	concrete sidejam window	green	C	concrete	✓	✓	n	
1658	Bathroom tub	white	D	metal	✓	✓	P	5.7
1659	Room #3 door ext	white	B	wood	✓	✓	P	14
1660	Side jam	✓	B	✓	✓	✓	P	8.5
1661	Head jam	✓	B	✓	✓	✓	P	4.9
1662	Room #3 inside	✓	B	✓	✓	✓	P	14

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1663	Room # 3 wall	Bone white	A	concrete	2	444B	n	
1664	" "	✓	B	✓	✓	✓	n	
1665	✓	✓	C	✓	✓	✓	n	
1666	✓	✓	D	✓	✓	✓	n	
1667	" " chairrail	✓	D	wood ✓	✓	✓	null	
1668	" "	✓	✓	✓	✓	✓	p	4.0
1669	" " Baseboard	white	B	wood	✓	✓	p	13
1670	Room # 3 Closet door (ext)	✓	B	✓	✓	✓	p	12
1671	" " (int	✓	✓	✓	✓	✓	p	5.7
1672	" " sidejam	✓	✓	✓	✓	✓	p	4.6
1673	" " Headjam	✓	✓	✓	✓	✓	p	5.6
1674	Closet wall	Bone white	A	concrete	✓	✓	n	
1675	✓	✓	B	✓	✓	✓	n	
1676	✓	✓	C	✓	✓	✓	n	
1677	✓	✓	D	✓	✓	✓	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

444B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1678	closet Room #3 Shelve #5	Bone white	C	wood	2	444B	p	5.0
1679	" Shelve #4 inside	✓	C	✓	✓	✓	p	7.2
1680	" " floor	white	Floor	concrete	✓	✓	n	
1681	closet electric Box	white	A	metal	✓	✓	n	
1682	Room #3	Dark Cream	floor	ceramic	✓	✓	n	
1683	Exterior wall	white	D	concrete	✓	✓	p	2.5
1684	" "	✓	C	✓	✓	✓	n	
1685	" Ext trim "	Blue	C	✓	✓	✓	n	
1686	Ext wall	white	B	concrete	✓	✓	p	8.4
1687	" Trim "	Blue	B	✓	✓	✓	n	
1688	Ext wall	white	A	✓	✓	✓	n	top
1689	" " confirmation	✓	✓	✓	✓	✓	p	Bottom 7.8
1690	" Trim "	Blue	A	✓	✓	✓	n	
1691	" Ext wall " confirmation	white	C	✓	✓	✓	p	Bottom 5.2
1692	" Trim "	Blue	D	✓	✓	✓	n	

SAMPLING DATA

Form 5.3
Field Sampling Form for Deteriorated Paint & Confirmation
(One form for each housing unit, common area, or exterior)

Name of risk assessor Miguel A. Oliveras

Name of property owner US Navy

Property address Stop 7 1/2 Site Apt. no. 444 Bldg

Dwelling selection protocol ✓ All dwellings ____ Targeted ____ Worst case ____ Random

~~Target~~ dwelling criteria (check all that apply)

✓ Code violations
✓ Judged to be in poor condition
____ Presence of two or more children between ages of 6 months and 6 years
____ Serves as day-care facility
____ Recently prepared for reoccupancy
____ Random sampling

Sample number	Room	Building component	Lead (mg/cm² or µg/g)
P-444.01	Room No. 1 (Conf)	Wall C (2"x2")	0.366
P-444.02	Room No. 3 (Det)	Wall C (2"x2")	0.002
HUD interim standard			5,000 µg/g or 1 mg/cm²

Sample *all* layers of paint, not just deteriorated paint layers.

Total number of samples on this page 2

Page 1 of 1

Date of sample collection 3 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

Date results reported ___/___/___ Analyzed by _____

Approved by _____

Form 5.4
Field Sampling Form for Dust
(Single-Surface Sampling)

Name of risk assessor Miguel A. Olivera

Name of property owner US Navy

Property address Stag 7 1/2 site Apt. no. 444 Bldg.

Dwelling selection protocol ✓ All dwellings ____ Targeted ____ Worst case ____ Random

~~Target~~ dwelling criteria (check all that apply)

✓ Code violations
✓ Judged to be in poor condition
____ Presence of two or more children between ages of 6 months and 6 years
____ Serves as day-care facility
____ Recently prepared for reoccupancy

	Sample number	Room (record name of room used by the owner or resident)	Surface type (circle the type)	Is surface smooth and cleanable?	Dimensions[1] of sample area (inches x inches)	Area (ft²)	Result of lab analysis (µg/ft²)	
81 675	D.444.01	Playroom Living Room	Floor	y	12 x 12		1570.0	☆
81 676	D.444.02	Playroom Living Room	Interior window sill or window trough	y	2 x 8		944.0	☆
81 677	D.444.03	Kitchen	Floor	y	12 x 12		323.0	☆
81 678	D.444.04	Kitchen	Interior window sill or window trough	y	4 x 4		401.0	☆
81 679	D.444.05	Bedroom 1 Room No 1	Floor	y	12 x 12		314.0	☆
81 680	D.444.06	Bedroom 1 Room No 1	Interior window sill or window trough	y	4 x 4		<64.8	
81 681	D.444.07	Bedroom 2 Room No 3	Floor	y	12 x 12		2280.0	☆
81 682	D.444.08	Bedroom 2 Room No 3	Interior window sill or window trough	y	4 x 4		<64.8	
81 683	D.444.09	Front Entrance	Floor	y	12 x 12		432.0	☆
81 684	D.444.10	Porch Entrance	Floor	y	12 x 12		478.0	☆
81 685	D.444.11	Porch	Interior sill window	y	2 x 8		1120.0	☆

[1] Measure to the nearest 1/8 inch.

HUD standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² (window troughs)

Total number of samples on this page 11

Page 1 of 2

Date of sample collection 3 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by [signature] 10:00 am (signature)

Form 5.4
Field Sampling Form for Dust
(Single-Surface Sampling)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address Stop 7 1/2 Site Apt. no. 449 Bldg

Dwelling selection protocol ✓ All dwellings ____ Targeted ____ Worst case ____ Random

~~Target~~ dwelling criteria (check all that apply)

✓ Code violations
✓ Judged to be in poor condition
____ Presence of two or more children between ages of 6 months and 6 years
____ Serves as day-care facility
____ Recently prepared for reoccupancy

Sample number	Room (record name of room used by the owner or resident)	Surface type (circle the type)	Is surface smooth and cleanable?	Dimensions[1] of sample area (inches x inches)	Area (ft²)	Result of lab analysis (µg/ft²)
686 D.449.12	Playroom Den 1st Fl	Floor	y	12 x 12		469.0 ✱
687 D.449.13	Playroom Den 1st Fl	Interior window sill or window trough	y	2 x 8		<64.8
688 D.449.14	~~Kitchen~~ ~~Foyer~~ 2nd Fl	Floor	y	12 x 12		422.0 ✱
689 D.449.15	~~Kitchen~~ Control	Interior window sill or window trough	y	4 x 4		<64.8
	Bedroom 1	Floor		___ x ___		
	Bedroom 1	Interior window sill or window trough		___ x ___		
	Bedroom 2	Floor		___ x ___		
	Bedroom 2	Interior window sill or window trough		___ x ___		
				___ x ___		
				___ x ___		

[1] Measure to the nearest 1/8 inch.

HUD standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² (window troughs)

Total number of samples on this page 4

Page 2 of 2

Date of sample collection 3 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by [signature] 10:00 Am (signature)

Calle Labra #1004, 2nd. Floor, Ave. r d, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atlantic 7½ site 444
Site Location:
Samplers Name: Miguel Oliveras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb wipes							Remarks
75	[redacted]	[redacted]	4/9/00			✓		N/A	1	✓							
76	[redacted]	[redacted]				✓			1	✓							
77	[redacted]	[redacted]				✓			1	✓							
78	ED. 444.04	Ext. front Entrance Side A				✓			1	✓							620.0 ug/sq.ft.
79	ED. 444.05	Ext. Back Entrance Side C				✓			1	✓							450.0
80	ED. 444.06	Ext. side Entrance Side B				✓			1	✓							595.0
81	[redacted]	[redacted]				✓			1	✓							
82	[redacted]	[redacted]				✓			1	✓							
83	[redacted]	[redacted]				✓			1	✓							

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A. Oliveras	Date/Time	10 Apr 00 1200 HGS	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Juan J. Ruiz	Date/Time	4/10/00 12:00	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A. Olivera

Name of property owner US Navy

Property address 444 Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
8/710 S. 444. 01	Building perimeter		209.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by [signature] 10:00 am (signature)

XRF DATA

444A

Serial #XL309-U12673701LY Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	1129	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/31/100	07:48:12
2	1130	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/31/100	08:03:41
3	**1131**	**1.10 ± 0.12**	**POS**	**1.0 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.4**	**3/31/100**	**08:04:24**
4	**1132**	**1.17 ± 0.14**	**POS**	**0.9 ± 0.7**	**1.2 ± 0.1**	**1.0**	**18.0**	**3/31/100**	**08:05:24**
5	**1133**	**0.98 ± 0.11**	**POS**	**0.4 ± 0.6**	**1.0 ± 0.1**	**1.0**	**20.4**	**3/31/100**	**08:06:12**
6	**1134**	**>>5.0 ± 1.00**	**POS**	**5.9 ± 4.1**	**5.9 ± 2.1**	**7.7**	**1.2**	**3/31/100**	**08:12:38**
7	**1135**	**>>5.0 ± 1.00**	**POS**	**4.0 ± 4.4**	**4.0 ± 2.2**	**7.2**	**1.2**	**3/31/100**	**08:12:52**
8	**1136**	**1.70 ± 0.73**	**POS**	**1.9 ± 0.8**	**1.7 ± 0.4**	**7.3**	**15.9**	**3/31/100**	**08:13:14**
9	**1137**	**3.62 ± 2.48**	**POS**	**7.4 ± 1.8**	**7.4 ± 0.9**	**10.0**	**3.6**	**3/31/100**	**08:14:09**
10	1138	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	08:14:40
11	1139	0.01 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	6.2	3/31/100	08:15:14
12	**1140**	**>>5.0 ± 1.00**	**POS**	**6.3 ± 4.1**	**6.3 ± 2.0**	**5.2**	**1.2**	**3/31/100**	**08:15:59**
13	**1141**	**4.64 ± 1.46**	**POS**	**2.6 ± 2.1**	**4.6 ± 0.7**	**5.3**	**3.6**	**3/31/100**	**08:16:33**
14	**1142**	**>>5.0 ± 1.00**	**POS**	**9.7 ± 3.7**	**9.7 ± 1.8**	**7.4**	**1.2**	**3/31/100**	**08:17:38**
15	1143	0.18 ± 0.44	NEG	-0.6 ± 1.2	0.2 ± 0.2	5.4	6.1	3/31/100	08:18:20
16	1144	0.02 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	4.1	6.1	3/31/100	08:18:39
17	1145	0.18 ± 0.14	NEG	0.0 ± 0.6	0.0 ± 0.3	9.5	28.2	3/31/100	08:19:01
18	1146	0.12 ± 0.35	NEG	0.1 ± 1.0	0.1 ± 0.2	4.8	8.6	3/31/100	08:20:06
19	**1147**	**1.07 ± 0.40**	**POS**	**0.7 ± 0.9**	**1.1 ± 0.2**	**5.7**	**20.7**	**3/31/100**	**08:22:12**
20	1148	0.17 ± 0.34	NEG	-0.6 ± 0.7	0.2 ± 0.2	6.0	13.4	3/31/100	08:23:12
21	**1149**	**0.70 ± 0.59**	**POS**	**8.7 ± 2.4**	**8.7 ± 1.2**	**10.0**	**3.7**	**3/31/100**	**08:27:59**
22	**1150**	**>>5.0 ± 1.00**	**POS**	**5.6 ± 4.4**	**5.6 ± 2.2**	**4.7**	**1.2**	**3/31/100**	**08:28:16**
23	**1151**	**0.01 ± 0.27**	**POS**	**12.5 ± 3.5**	**12.5 ± 1.7**	**1.0**	**1.2**	**3/31/100**	**08:28:29**
24	**1152**	**0.78 ± 0.82**	**POS**	**9.1 ± 3.7**	**9.1 ± 1.9**	**10.0**	**1.2**	**3/31/100**	**08:28:43**
25	1153	0.10 ± 0.30	NEG	-0.5 ± 1.0	0.1 ± 0.1	4.9	6.1	3/31/100	08:30:09
26	1154	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	08:30:29
27	1155	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	08:30:47

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	1156	0.25 ± 0.18	NEG	0.7 ± 0.6	0.3 ± 0.1	4.2	20.8	3/31/100	08:32:35
29	1157	0.01 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	08:33:25
30	**1158**	**1.60 ± 1.23**	**POS**	**4.5 ± 1.3**	**4.5 ± 0.6**	**10.0**	**6.1**	**3/31/100**	**08:34:15**
31	1159	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	08:35:57
32	1160	0.01 ± 0.10	NEG	-0.9 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	08:36:15
33	1161	0.00 ± 0.10	NEG	-0.7 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	08:36:33
34	**1162**	**>>5.0 ± 1.00**	**POS**	**9.2 ± 3.9**	**9.2 ± 1.9**	**1.8**	**1.2**	**3/31/100**	**08:37:52**
35	1163	0.00 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	1.0	6.1	3/31/100	08:40:49
36	1164	0.04 ± 0.14	NEG	-0.2 ± 0.8	0.0 ± 0.1	4.3	13.5	3/31/100	08:41:09
37	1165	0.03 ± 0.12	NEG	0.0 ± 0.8	0.0 ± 0.1	4.3	11.0	3/31/100	08:41:43
38	1166	0.01 ± 0.14	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.2	8.6	3/31/100	08:42:11
39	1167	0.04 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	6.6	8.6	3/31/100	08:42:35
40	1168	0.04 ± 0.15	NEG	0.4 ± 0.8	0.0 ± 0.1	4.4	13.6	3/31/100	08:42:59
41	**1169**	**0.68 ± 0.70**	**POS**	**7.9 ± 2.2**	**7.9 ± 1.1**	**9.1**	**3.7**	**3/31/100**	**08:43:37**
42	**1170**	**>>5.0 ± 1.00**	**POS**	**4.5 ± 2.4**	**4.5 ± 1.2**	**7.8**	**3.7**	**3/31/100**	**08:45:38**
43	1171	0.10 ± 0.18	NEG	0.7 ± 0.6	0.1 ± 0.1	5.0	21.0	3/31/100	08:45:54
44	1172	0.39 ± 0.25	NEG	0.4 ± 0.7	0.4 ± 0.1	5.3	20.8	3/31/100	08:46:45
45	**1173**	**3.42 ± 2.68**	**POS**	**4.9 ± 1.7**	**4.9 ± 0.8**	**7.9**	**6.1**	**3/31/100**	**08:47:33**
46	**1174**	**3.42 ± 2.68**	**POS**	**9.2 ± 3.9**	**9.2 ± 1.9**	**5.2**	**1.2**	**3/31/100**	**09:01:39**
47	**1175**	**2.23 ± 1.23**	**POS**	**2.2 ± 1.4**	**2.2 ± 0.6**	**5.4**	**6.1**	**3/31/100**	**09:01:49**
48	**1176**	**>>5.0 ± 1.00**	**POS**	**5.7 ± 3.5**	**5.7 ± 1.7**	**6.7**	**1.2**	**3/31/100**	**09:03:36**
49	**1177**	**0.10 ± 0.14**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**4.5**	**21.1**	**3/31/100**	**09:03:47**
50	**1178**	**0.32 ± 0.30**	**POS**	**4.8 ± 1.6**	**4.8 ± 0.8**	**10.0**	**3.7**	**3/31/100**	**09:04:55**
51	1179	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	09:06:31
52	1180	0.01 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	8.5	3/31/100	09:06:48
53	1181	0.01 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	8.5	3/31/100	09:07:10
54	1182	0.01 ± 0.10	NEG	-0.6 ± 1.3	0.0 ± 0.1	3.3	6.1	3/31/100	09:08:29
55	1183	0.02 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	3.8	6.1	3/31/100	09:08:47

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Site: Date: 3/31/100

Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	1184	0.03 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	5.2	13.5	3/31/100	09:09:06
57	1185	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	8.7	3/31/100	09:10:59
58	1186	0.00 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	09:11:21
59	1187	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	09:11:51
60	1188	0.09 ± 0.23	NEG	-0.5 ± 1.0	0.1 ± 0.1	6.0	6.0	3/31/100	09:13:26
61	1189	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	09:13:43
62	1190	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/31/100	09:19:38
63	**1191**	**1.09 ± 0.10**	**POS**	**0.9 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.4**	**3/31/100**	**09:19:53**
64	**1192**	**1.15 ± 0.10**	**POS**	**1.9 ± 1.3**	**1.1 ± 0.1**	**1.0**	**6.0**	**3/31/100**	**09:21:42**
65	**1193**	**1.20 ± 0.21**	**POS**	**2.2 ± 1.2**	**1.2 ± 0.1**	**1.0**	**8.4**	**3/31/100**	**09:21:59**
66	1194	0.00 ± 0.10	NEG	-0.9 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	09:24:36
67	1195	0.02 ± 0.10	NEG	-1.7 ± 1.3	0.0 ± 0.1	4.4	6.1	3/31/100	09:25:08
68	1196	0.00 ± 0.10	INCOM	-0.2 ± 1.3	0.0 ± 0.1	1.0	6.1	3/31/100	09:25:28
69	1197	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	11.0	3/31/100	09:25:48
70	1198	0.00 ± 0.10	NEG	-0.9 ± 1.4	0.0 ± 0.1	1.0	6.1	3/31/100	09:26:18
71	1199	0.01 ± 0.10	NEG	0.0 ± 1.1	0.0 ± 0.1	1.0	8.6	3/31/100	09:26:49
72	1200	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.0	3/31/100	09:36:29
73	**1201**	**0.63 ± 0.53**	**POS**	**3.5 ± 1.3**	**3.5 ± 0.7**	**9.7**	**6.2**	**3/31/100**	**09:36:55**
74	**1202**	**0.01 ± 0.15**	**POS**	**3.4 ± 1.0**	**3.4 ± 0.5**	**1.4**	**6.2**	**3/31/100**	**09:37:24**
75	1203	0.04 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.8	11.0	3/31/100	09:38:30
76	1204	0.01 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.6	6.1	3/31/100	09:39:24
77	1205	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.6	6.1	3/31/100	09:39:46
78	1206	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	09:40:05
79	1207	0.07 ± 0.14	NEG	-0.2 ± 0.6	0.1 ± 0.1	6.4	20.9	3/31/100	09:41:12
80	1208	0.02 ± 0.17	NEG	-1.0 ± 1.3	0.0 ± 0.1	2.0	6.1	3/31/100	09:42:00
81	1209	0.04 ± 0.10	NEG	-0.2 ± 0.7	0.0 ± 0.1	7.4	18.4	3/31/100	09:42:18
82	1210	0.07 ± 0.14	NEG	-0.2 ± 1.0	0.1 ± 0.1	7.0	8.6	3/31/100	09:43:02
83	1211	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	09:43:31

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	**1212**	**1.73 ± 1.30**	**POS**	**4.0 ± 1.3**	**4.0 ± 0.7**	**6.7**	**6.1**	**3/31/100**	**09:45:53**
85	1213	0.03 ± 0.25	NEG	-0.9 ± 1.1	0.0 ± 0.1	2.1	6.1	3/31/100	09:46:21
86	1214	0.02 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	09:46:43
87	**1215**	**0.72 ± 0.55**	**POS**	**4.9 ± 1.4**	**4.9 ± 0.7**	**10.0**	**6.1**	**3/31/100**	**09:49:32**
88	**1216**	**0.45 ± 0.10**	**POS**	**4.8 ± 1.6**	**4.8 ± 0.8**	**10.0**	**6.1**	**3/31/100**	**09:49:57**
89	**1217**	**0.23 ± 0.27**	**POS**	**4.8 ± 1.6**	**4.8 ± 0.8**	**8.8**	**6.1**	**3/31/100**	**09:50:15**
90	1218	0.07 ± 0.38	NEG	-0.4 ± 1.2	0.1 ± 0.2	3.1	6.0	3/31/100	09:50:41
91	**1219**	**4.27 ± 1.83**	**POS**	**15.7 ± 4.9**	**15.7 ± 2.5**	**4.6**	**1.2**	**3/31/100**	**09:51:25**
92	**1220**	**2.54 ± 0.67**	**POS**	**4.2 ± 2.4**	**2.5 ± 0.3**	**1.3**	**3.4**	**3/31/100**	**09:52:12**
93	1221	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.1	3/31/100	09:53:12
94	1222	0.01 ± 0.14	NEG	-0.2 ± 1.2	0.0 ± 0.1	2.1	8.6	3/31/100	09:54:07
95	1223	0.12 ± 0.10	NEG	-0.5 ± 0.6	-0.5 ± 0.3	10.0	15.9	3/31/100	09:55:53
96	1224	0.15 ± 0.43	NEG	-0.1 ± 0.8	0.1 ± 0.2	4.7	8.5	3/31/100	09:56:44
97	**1225**	**0.02 ± 0.10**	**POS**	**1.5 ± 0.4**	**1.5 ± 0.2**	**4.1**	**50.7**	**3/31/100**	**09:57:47**
98	1226	0.05 ± 0.33	NEG	-0.6 ± 1.0	0.1 ± 0.2	2.8	6.1	3/31/100	10:02:15

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Site: Ranges (NEG<INC<POS): Device PCS

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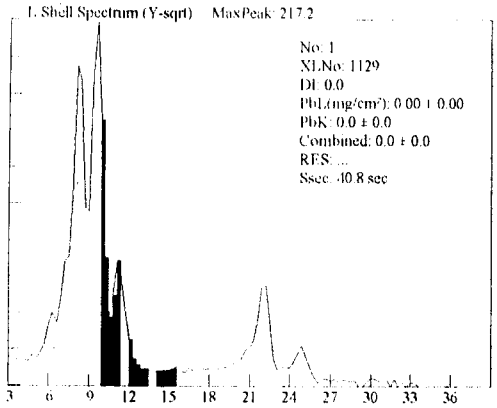

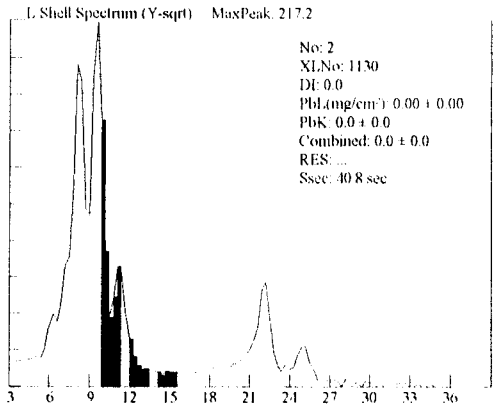

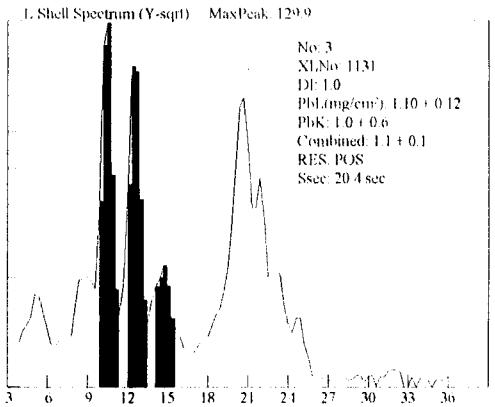

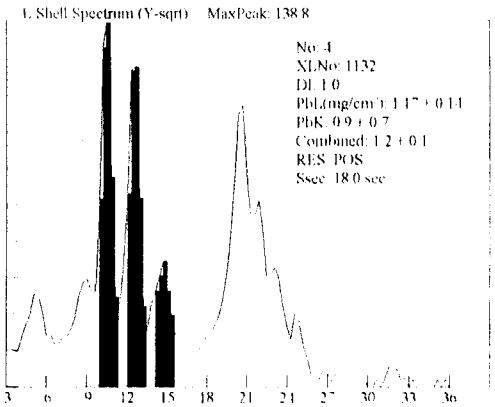

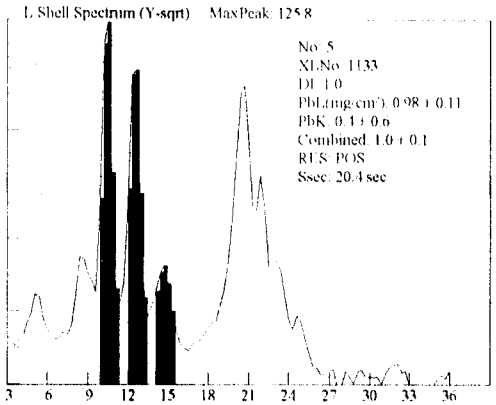

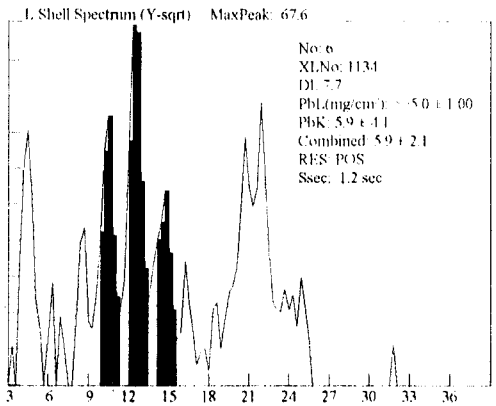

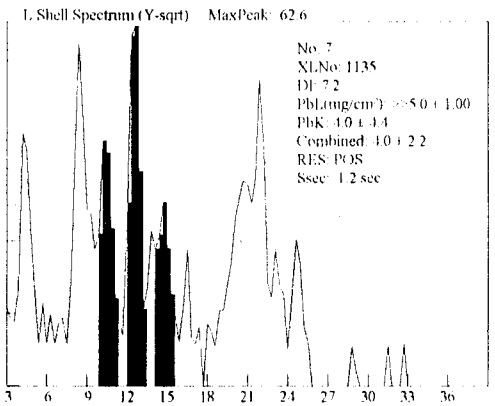

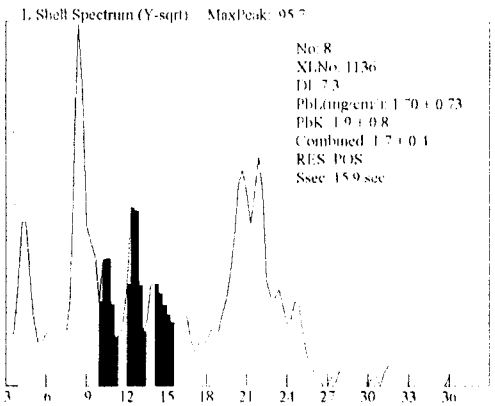

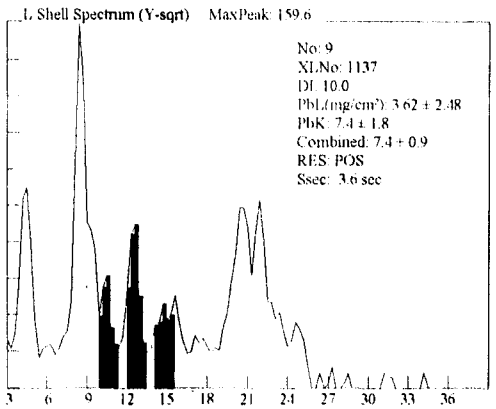

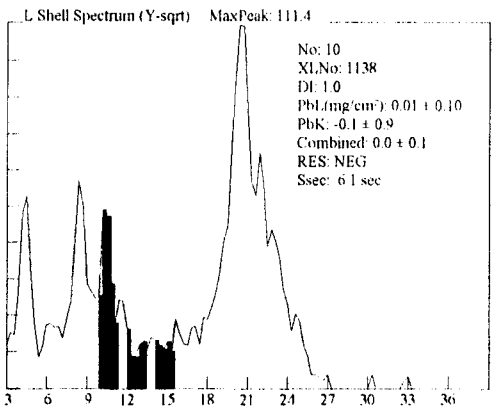

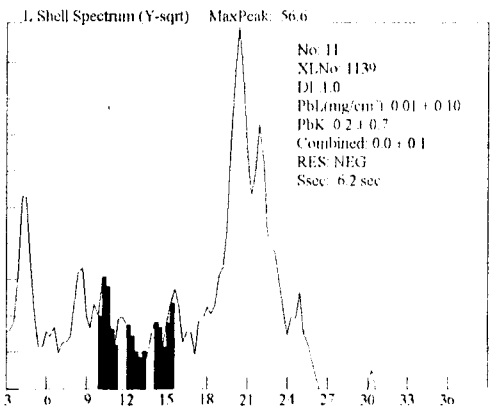

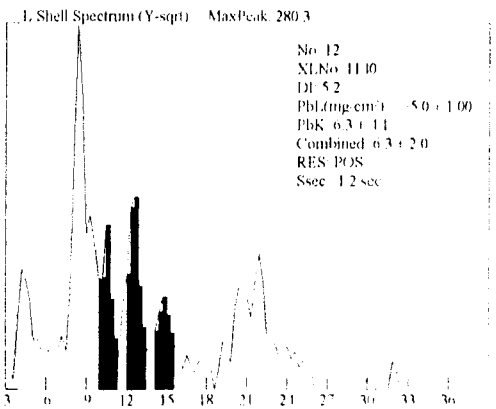

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Site: Ranges (NEG<INC<POS): Device PCS

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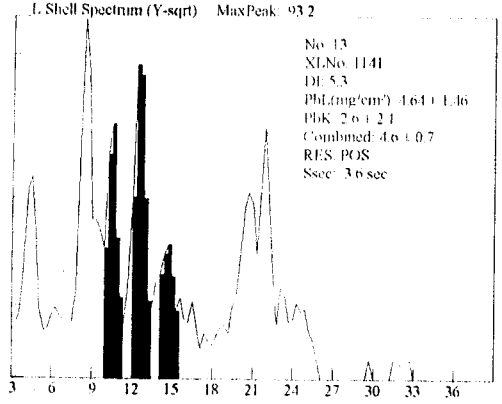

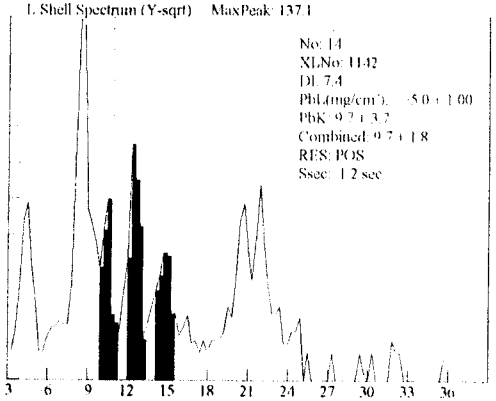

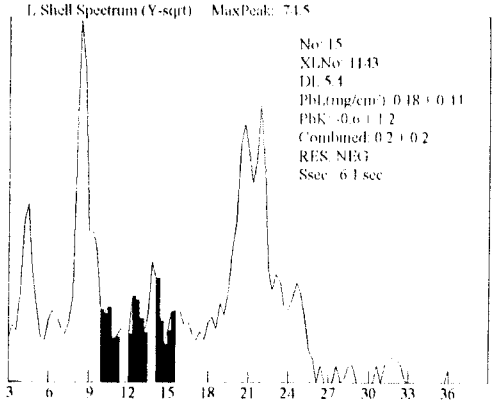

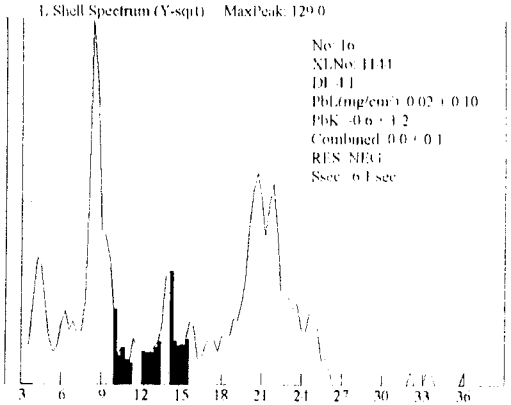

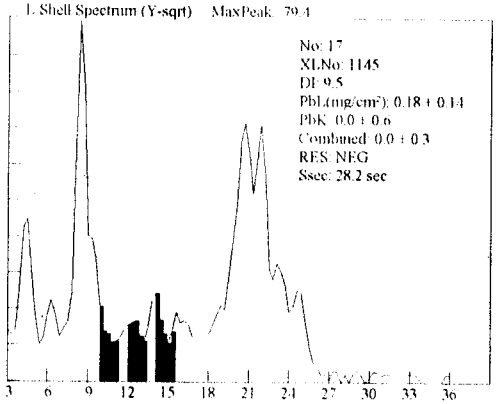

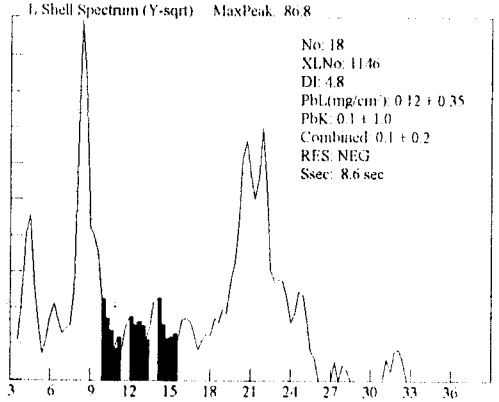

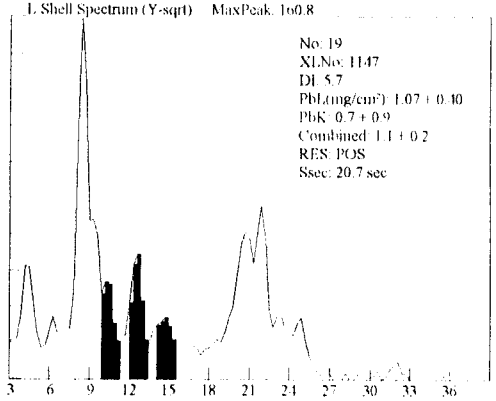

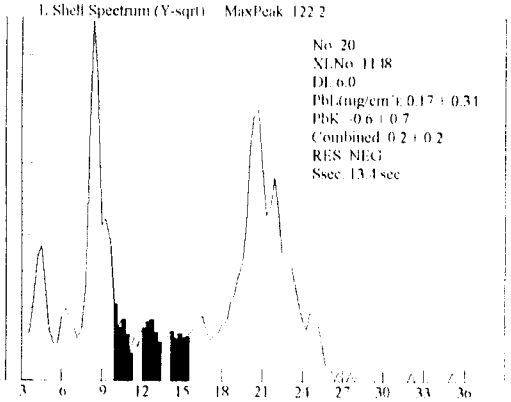

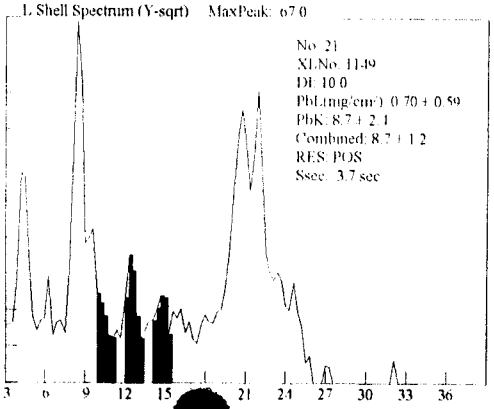

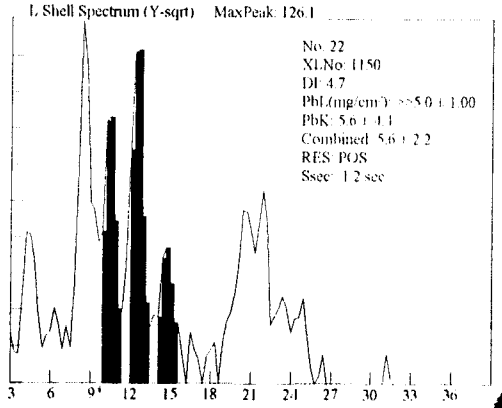

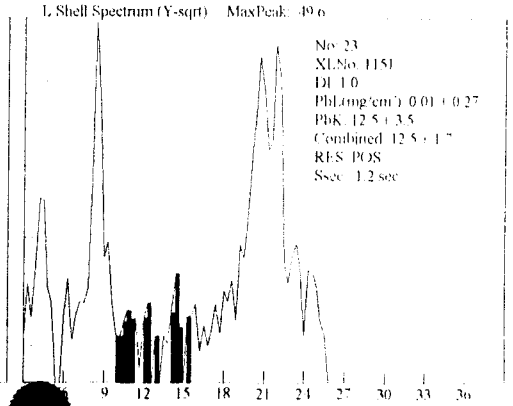

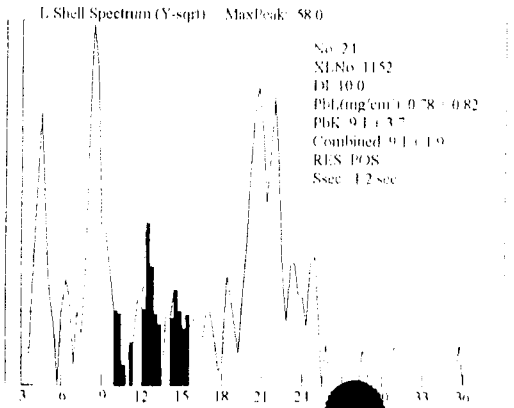

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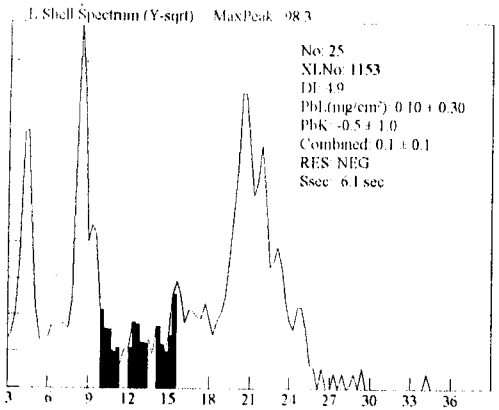

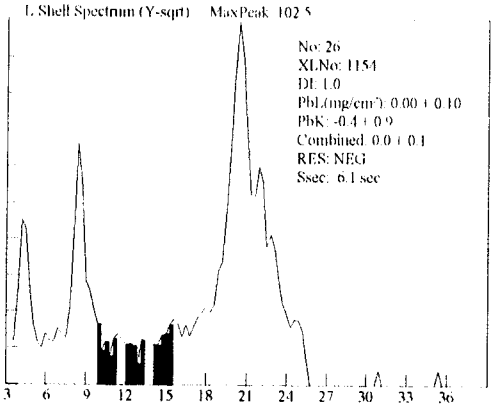

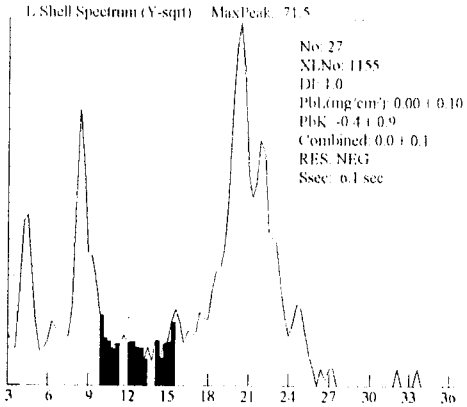

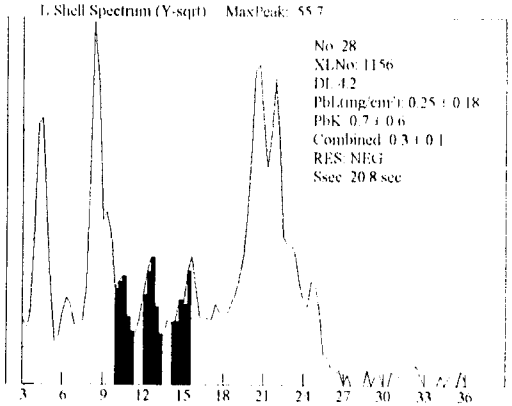

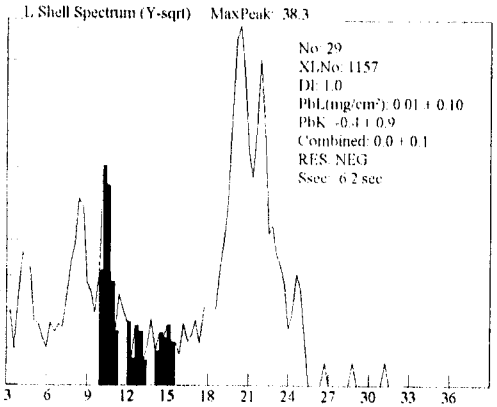

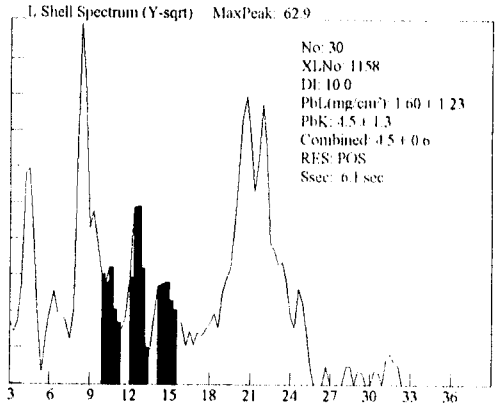

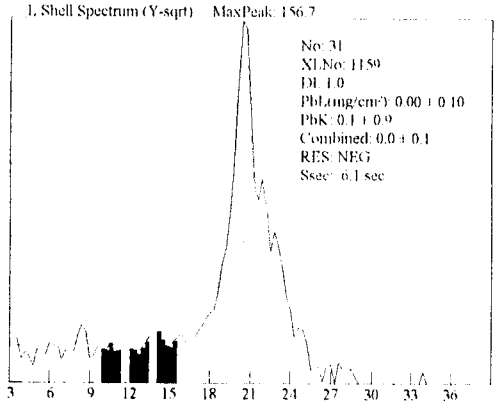

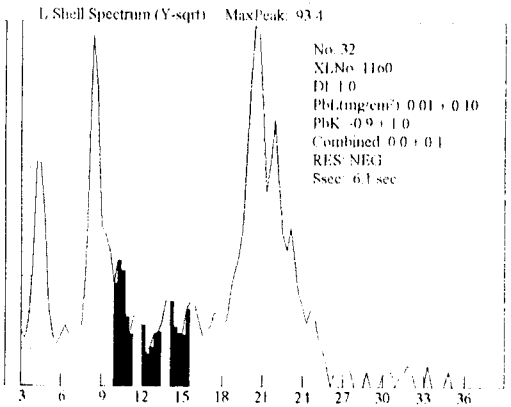

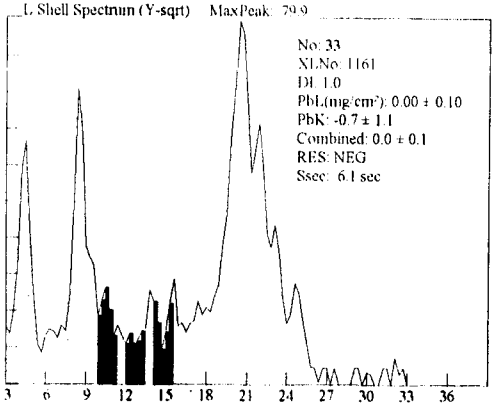

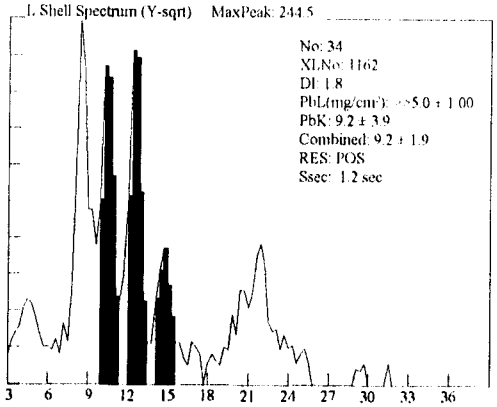

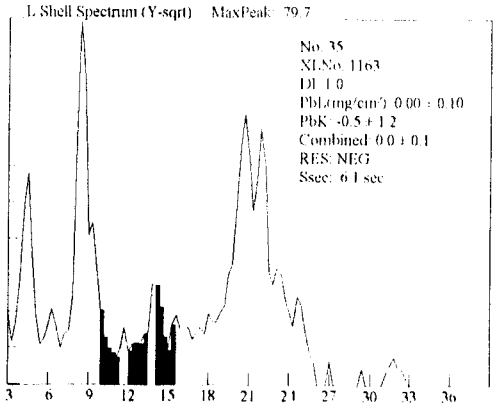

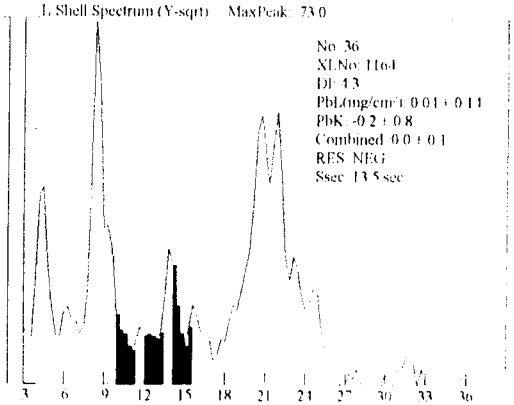

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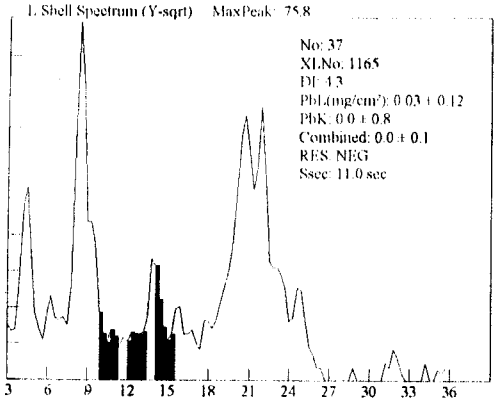

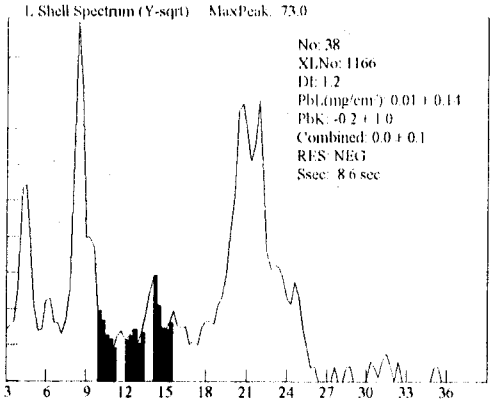

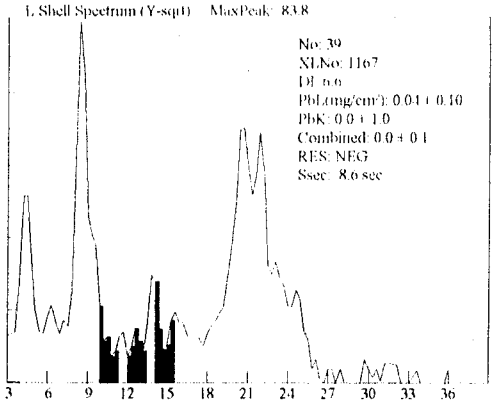

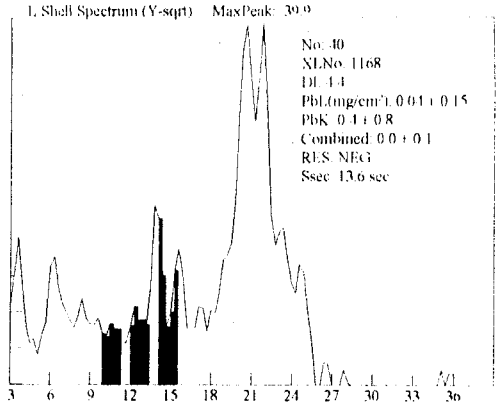

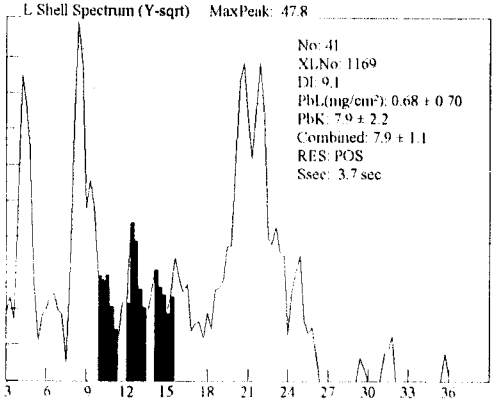

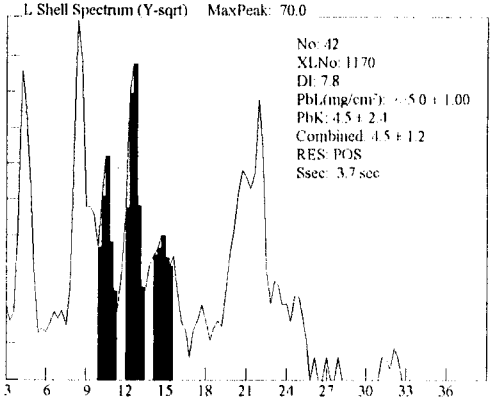

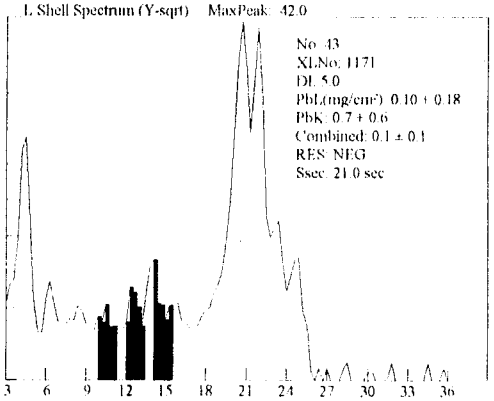

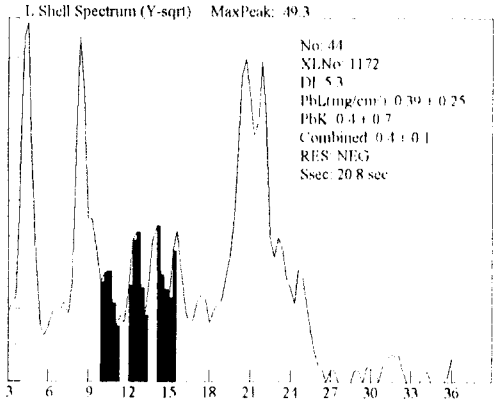

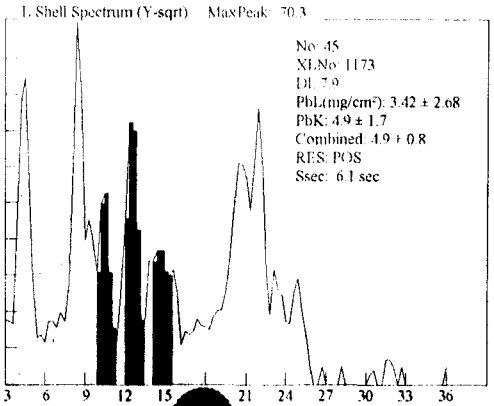

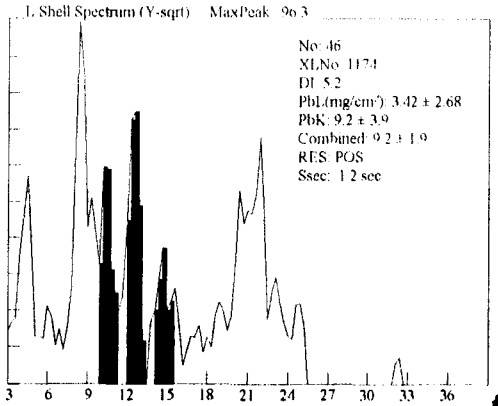

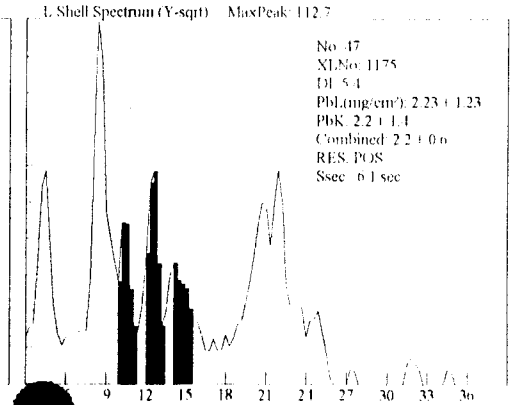

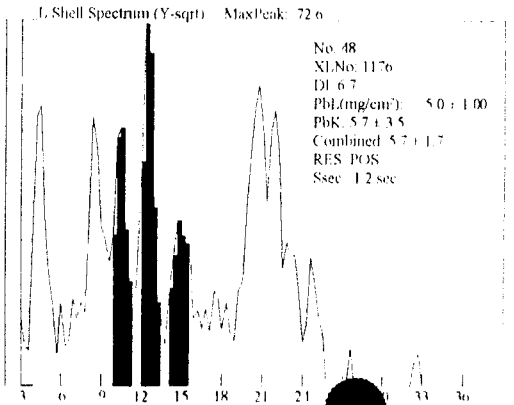

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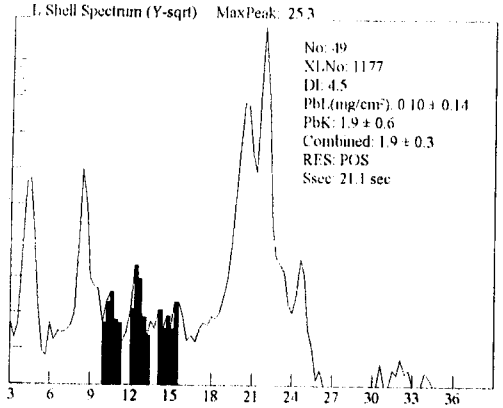

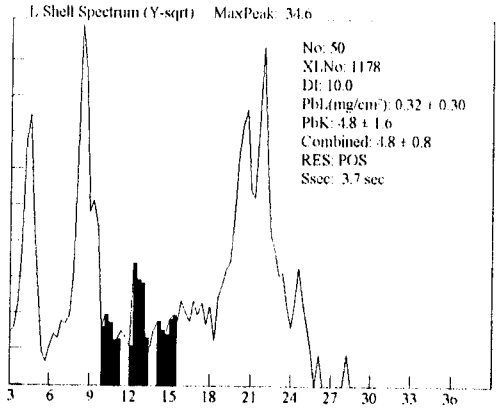

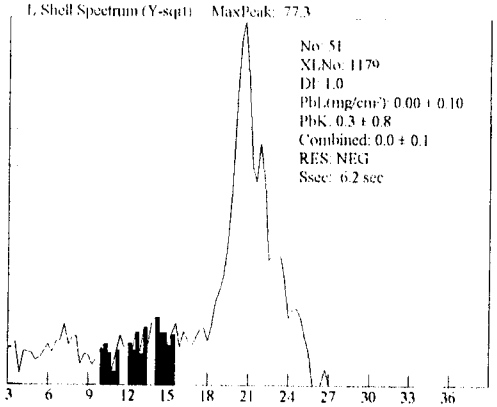

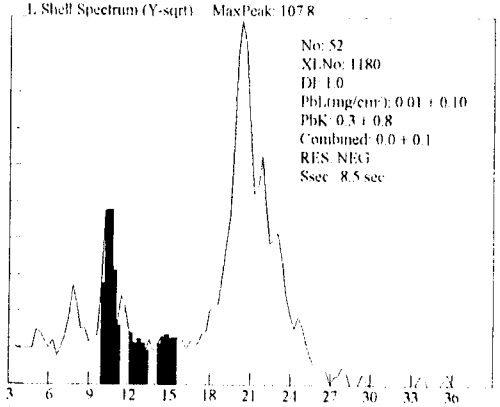

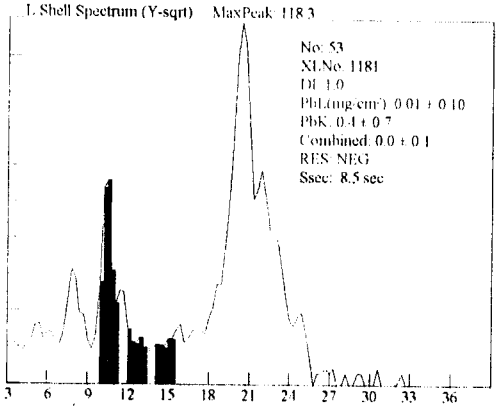

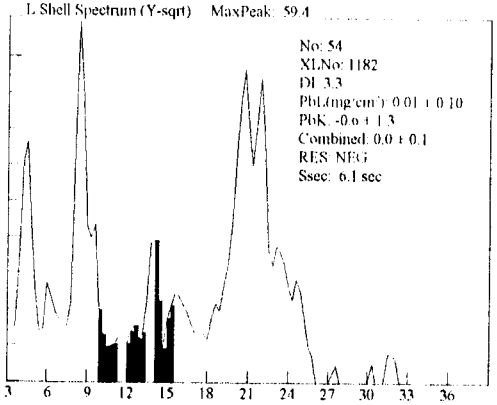

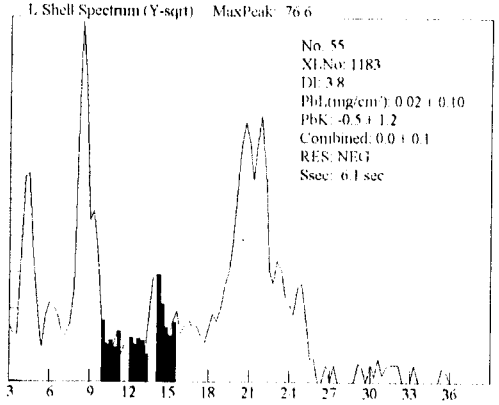

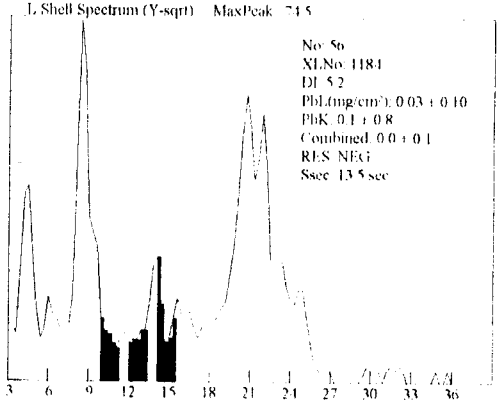

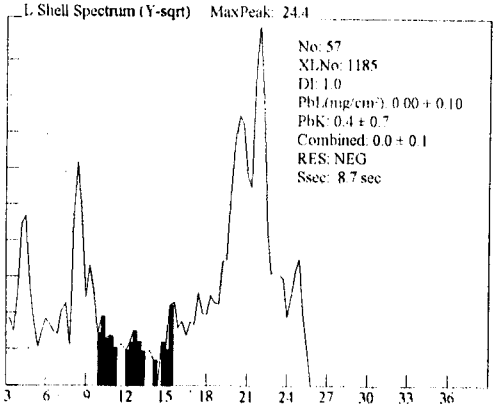

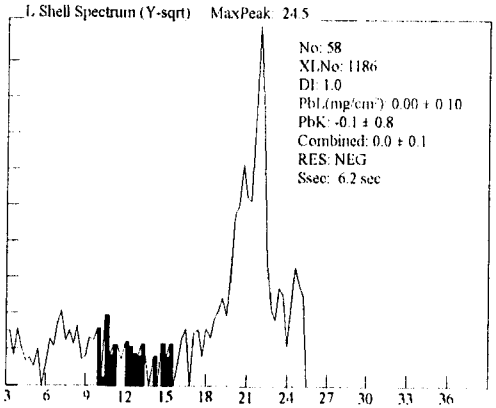

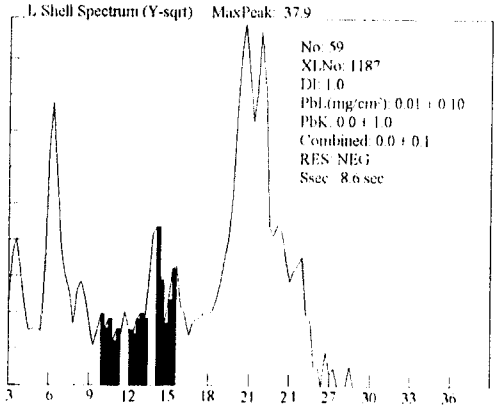

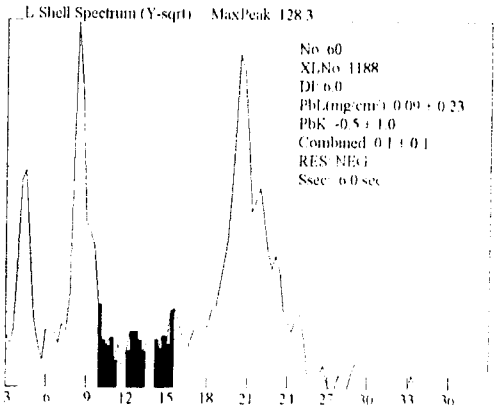

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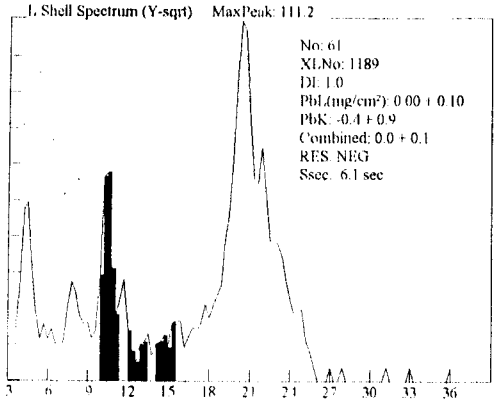

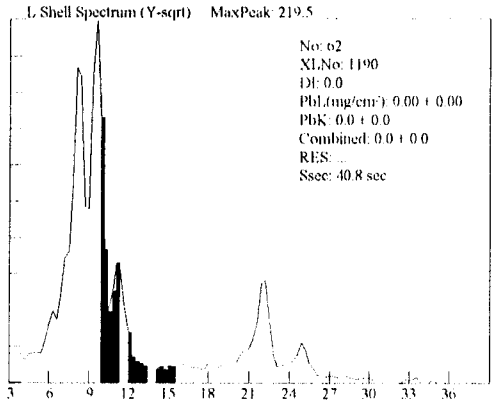

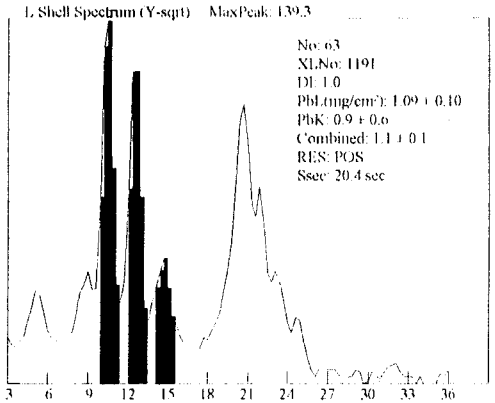

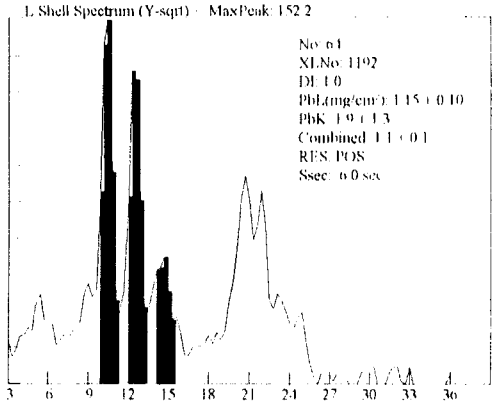

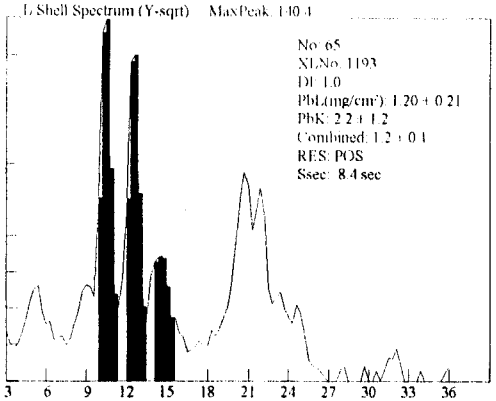

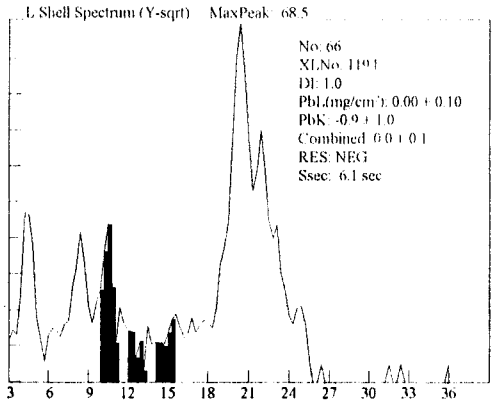

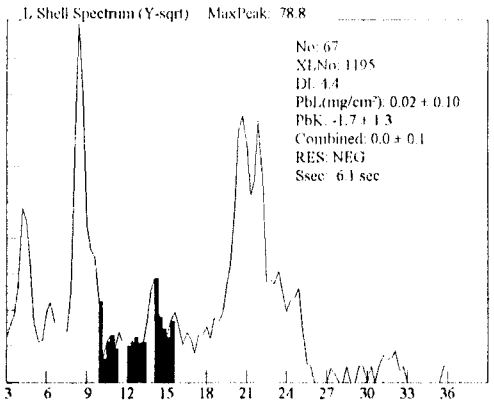

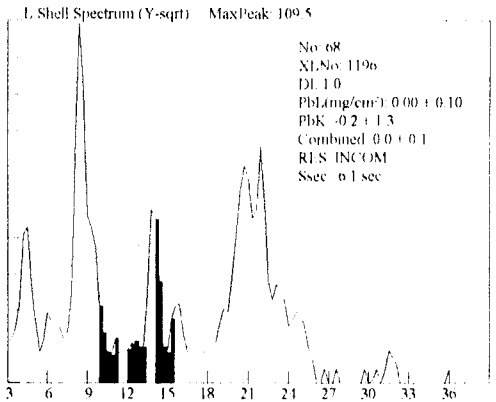

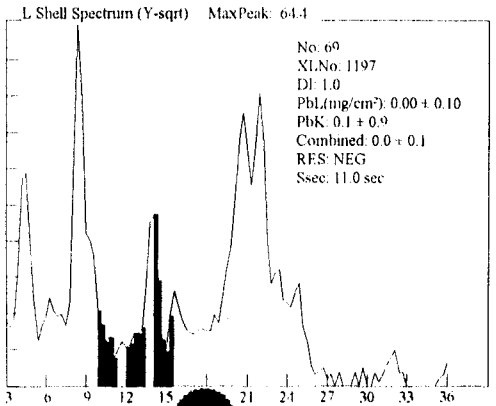

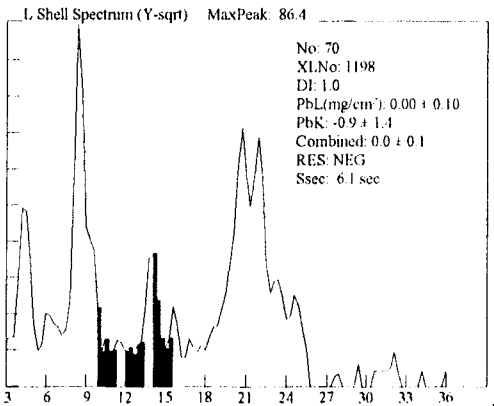

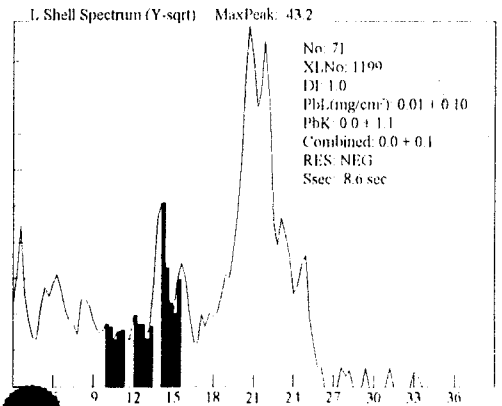

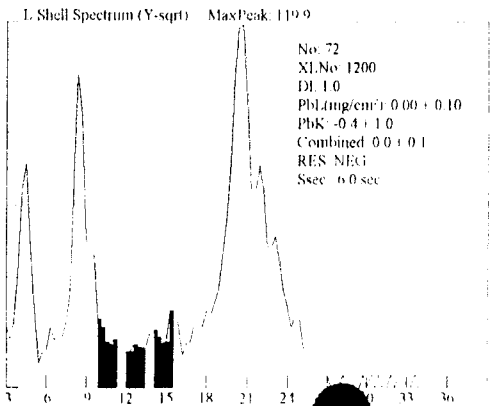

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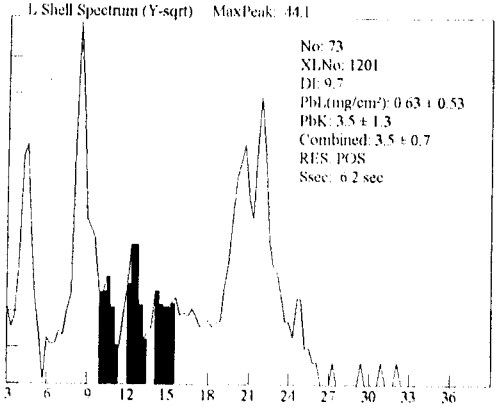

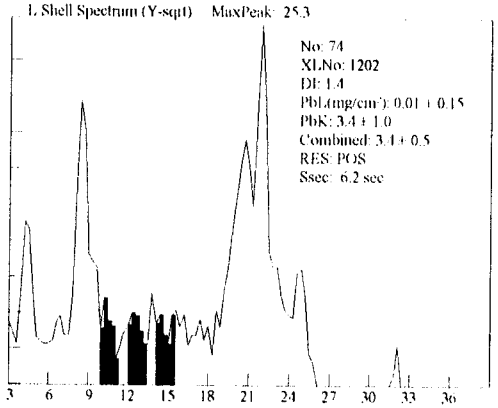

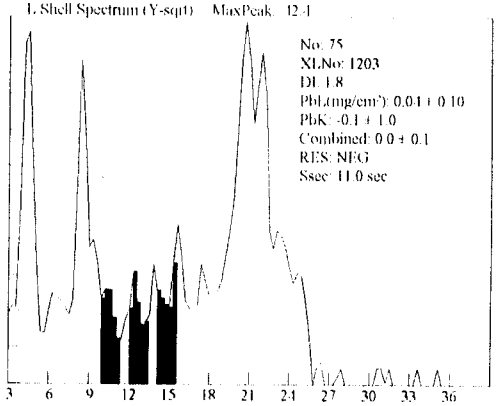

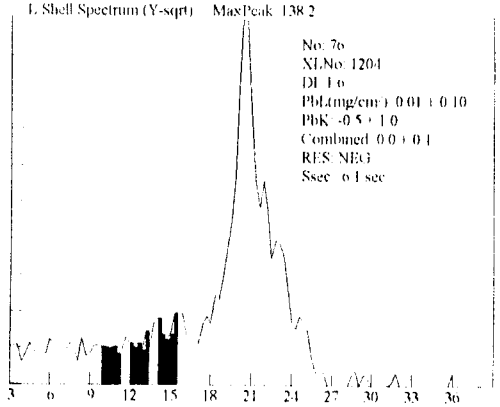

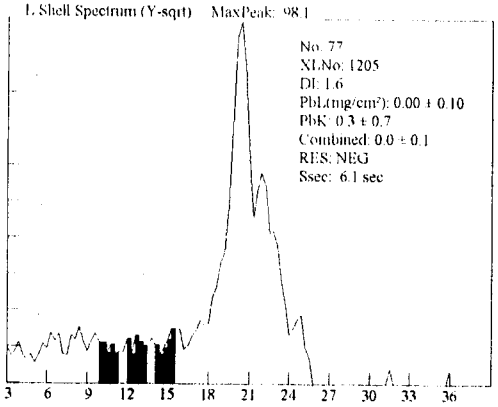

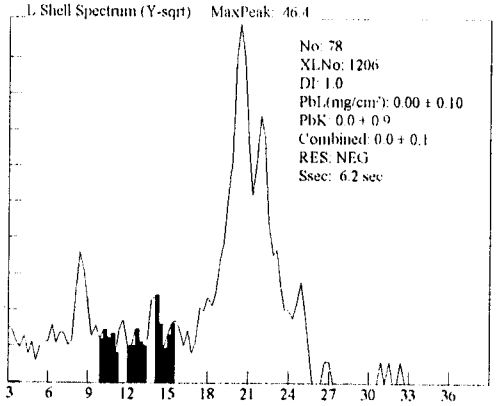

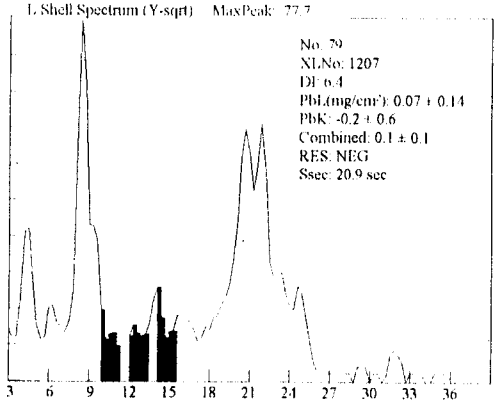

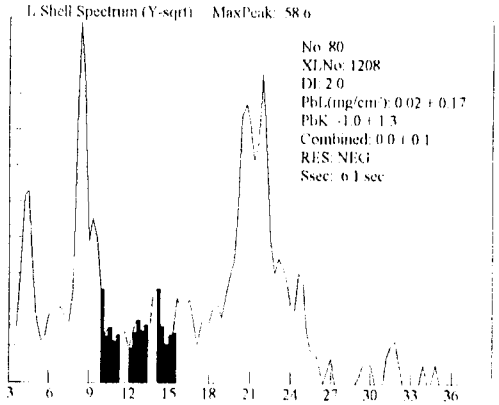

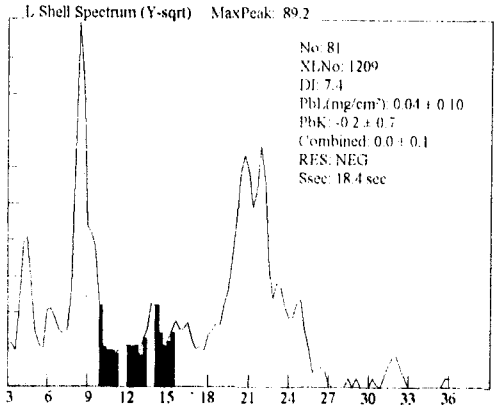

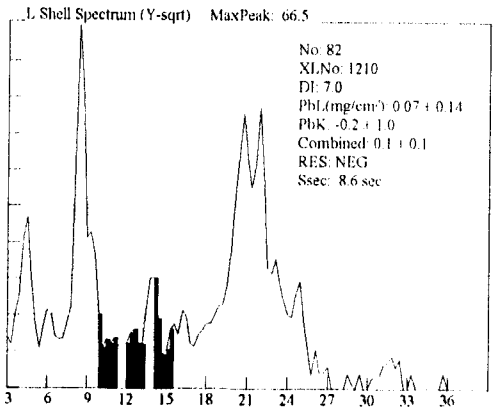

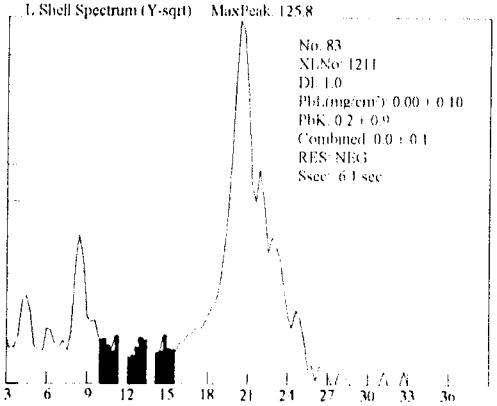

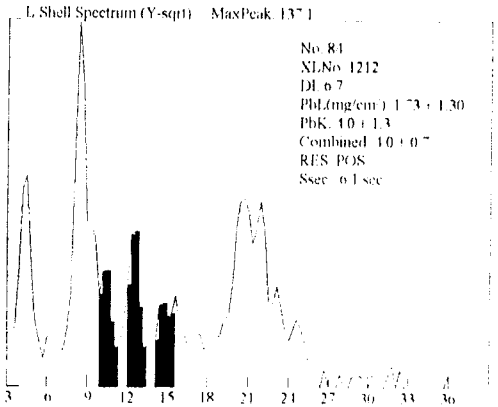

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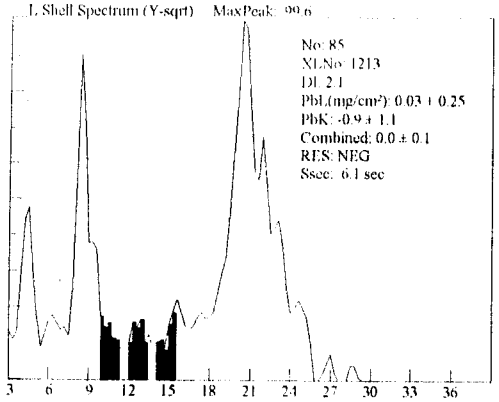

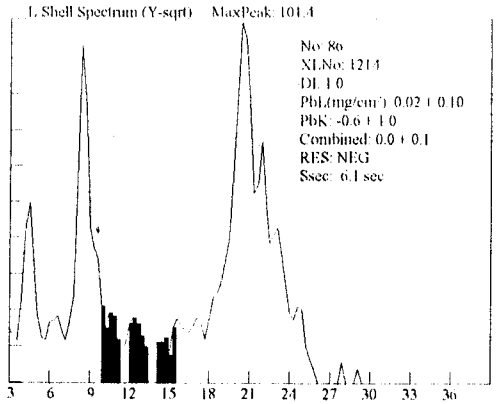

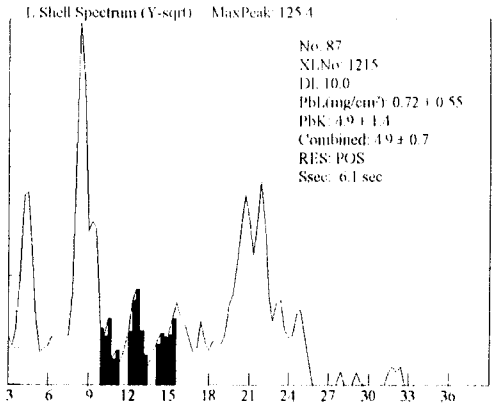

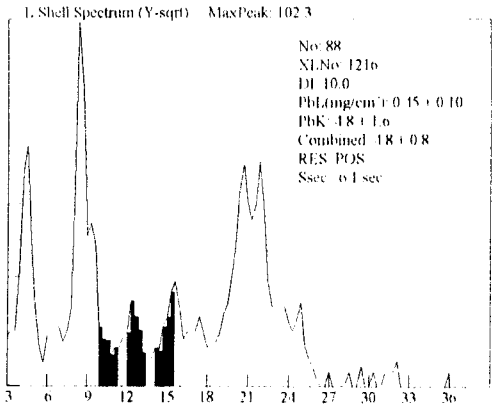

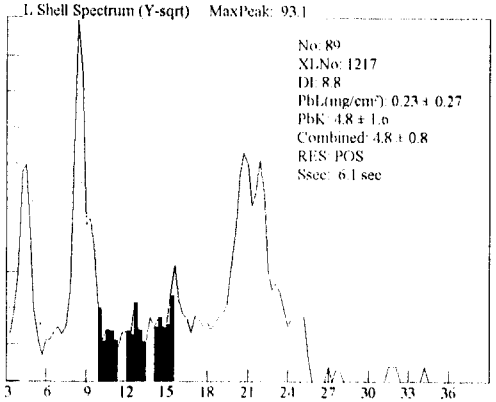

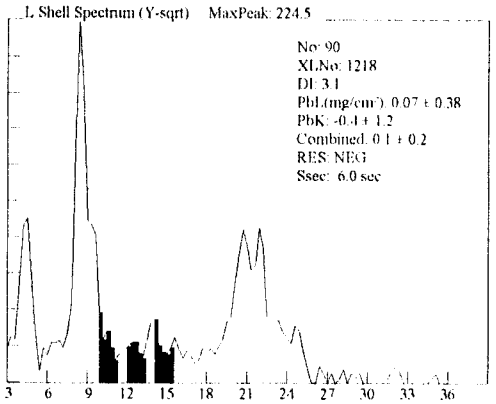

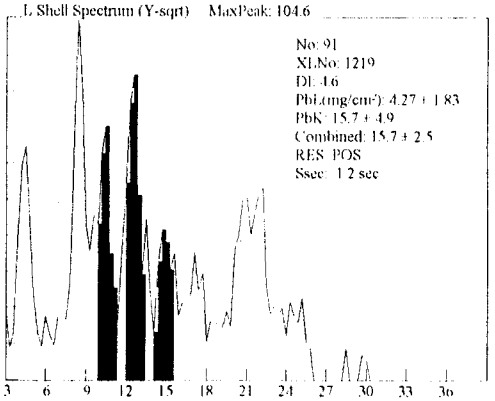

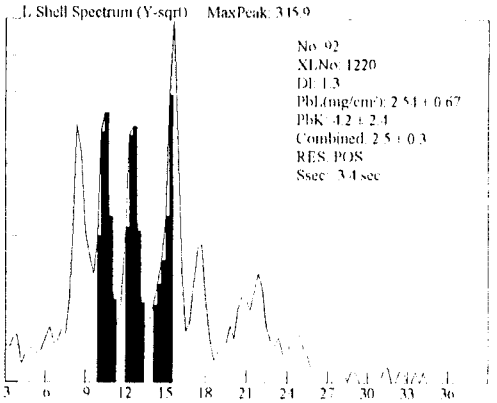

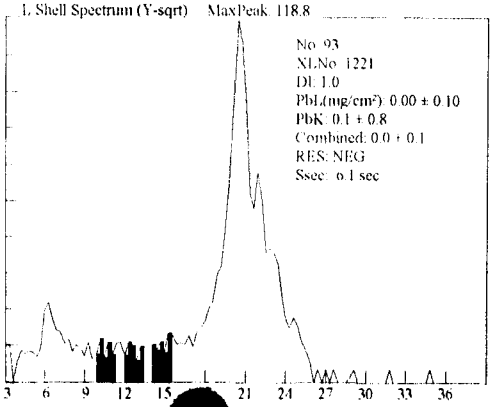

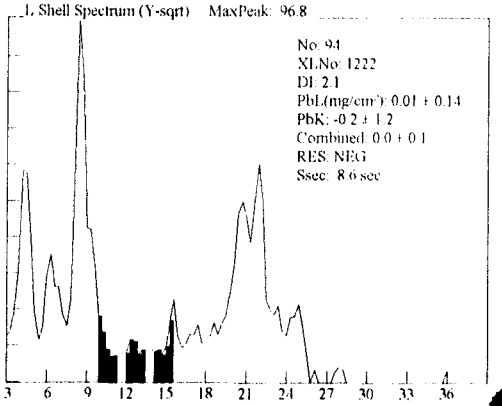

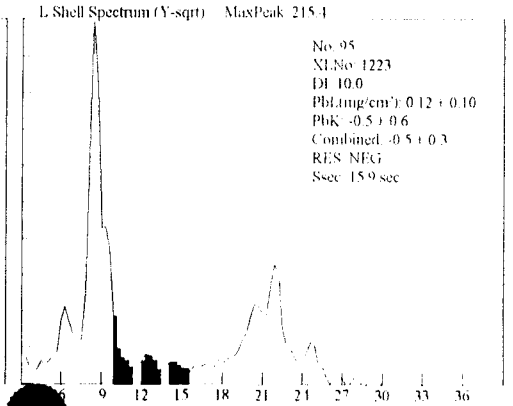

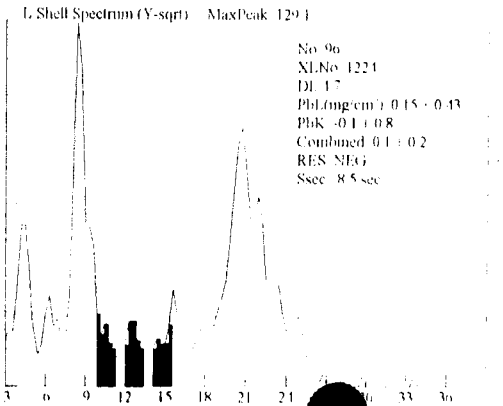

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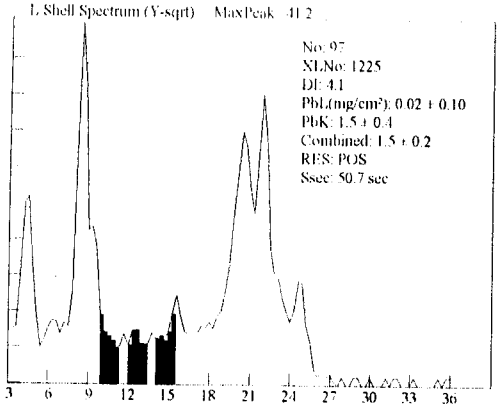

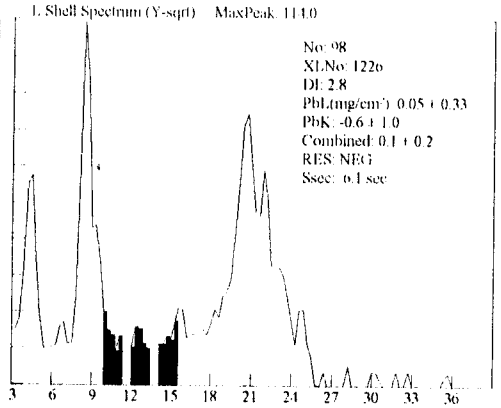

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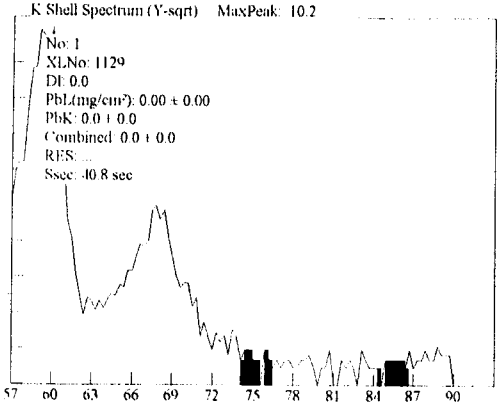

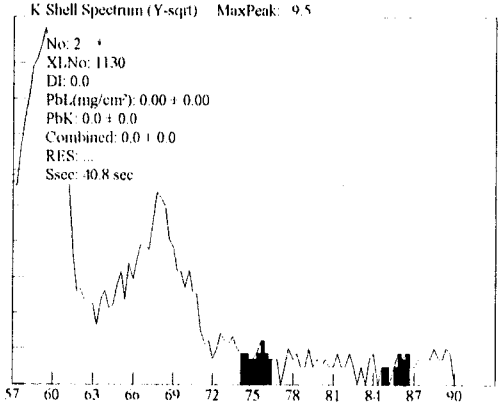

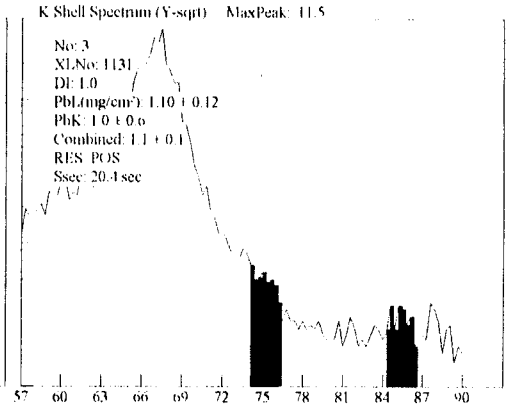

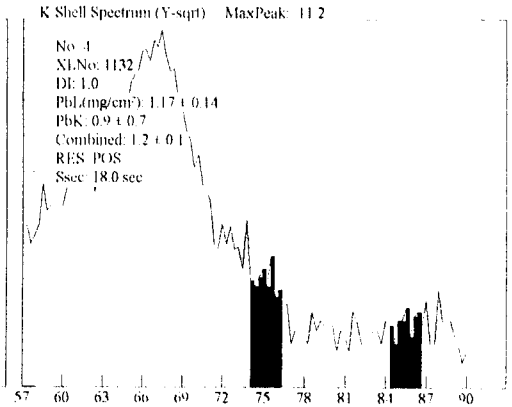

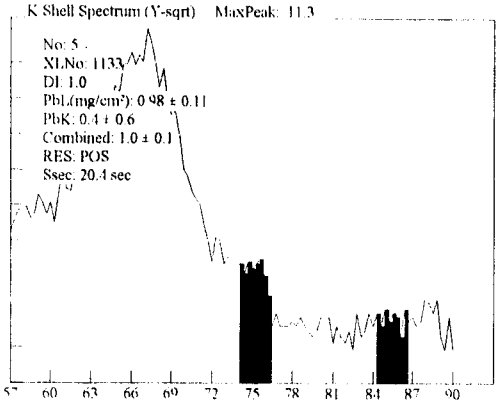

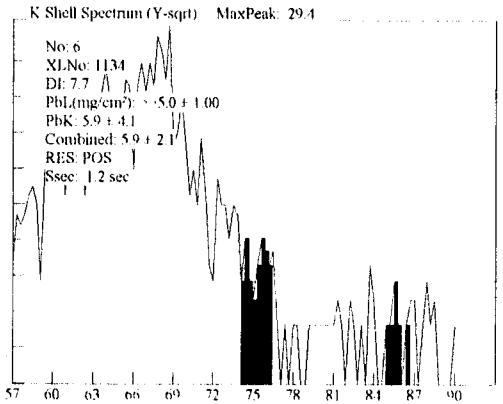

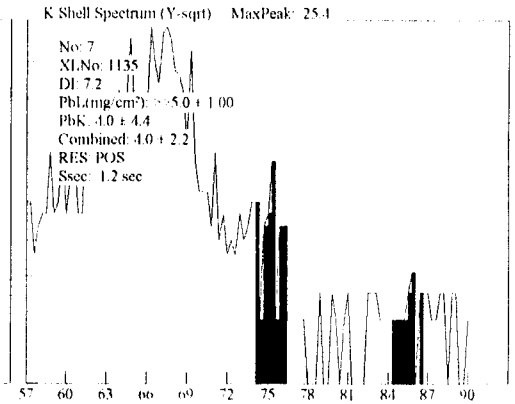

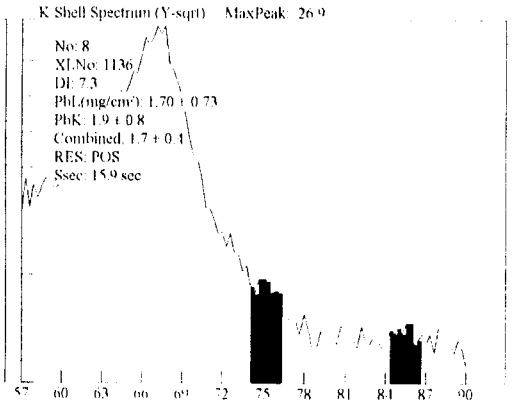

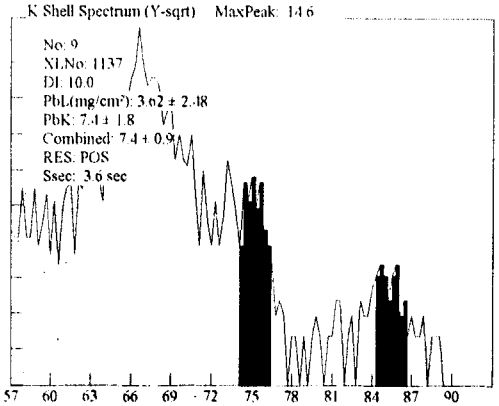

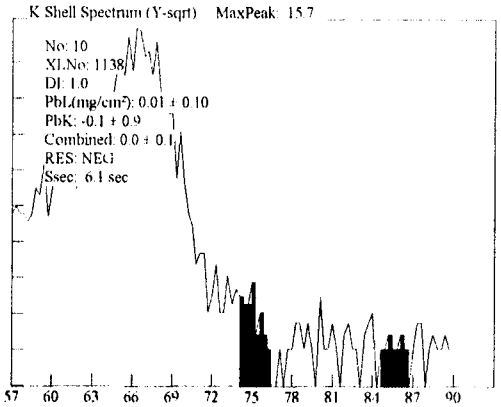

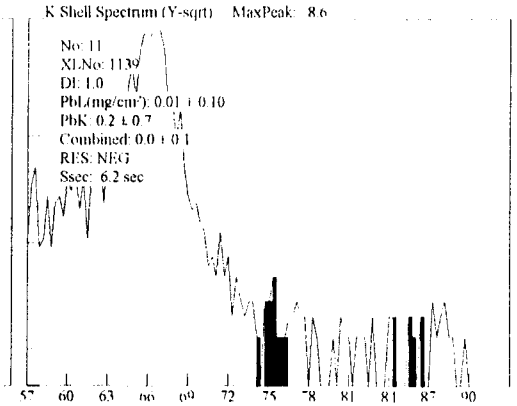

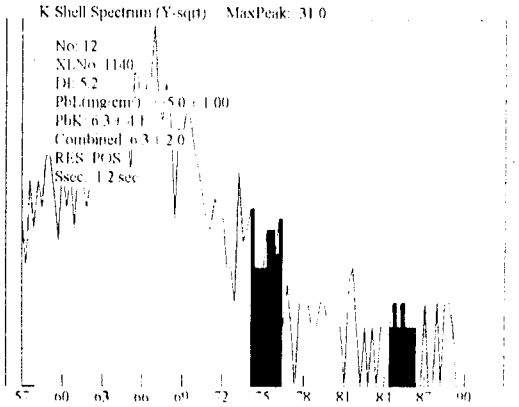

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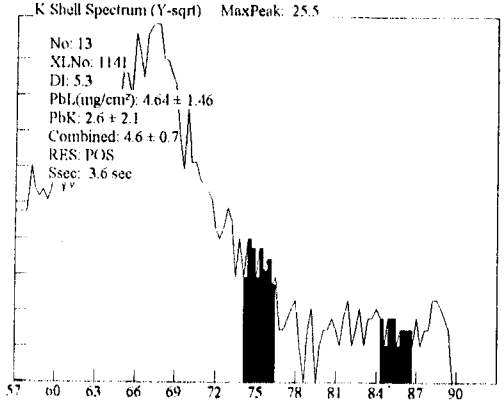

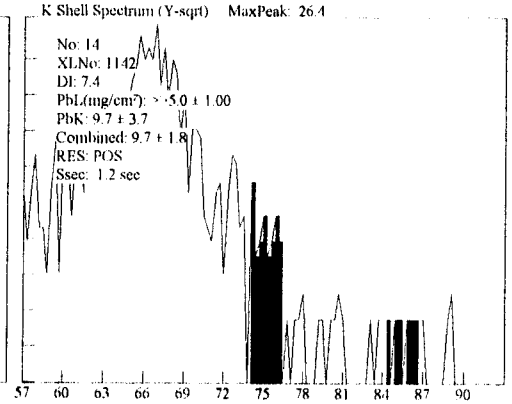

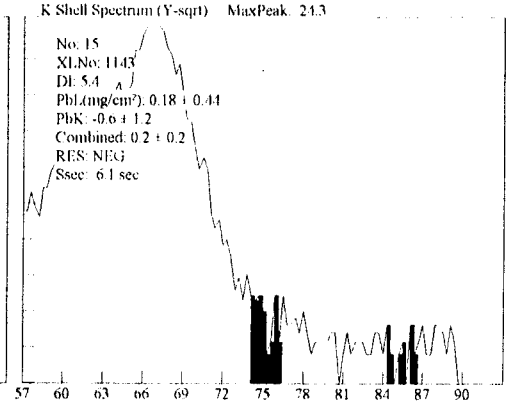

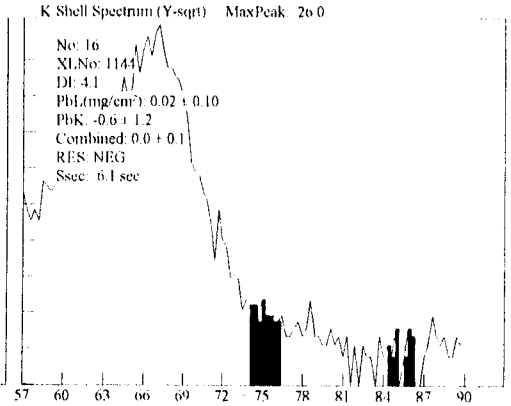

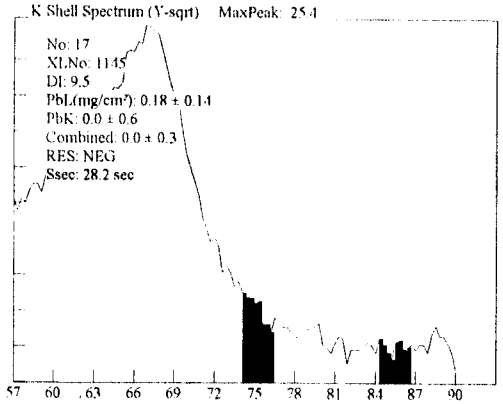

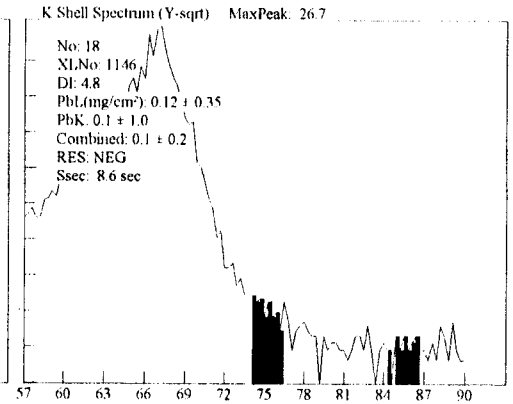

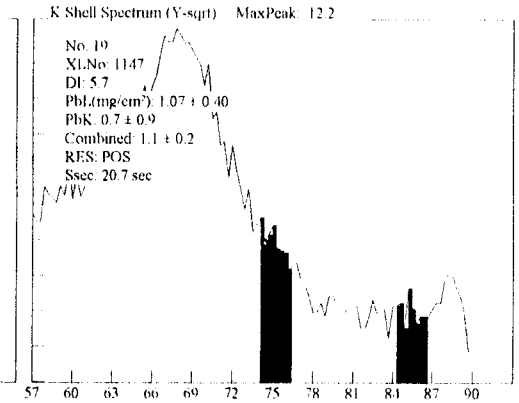

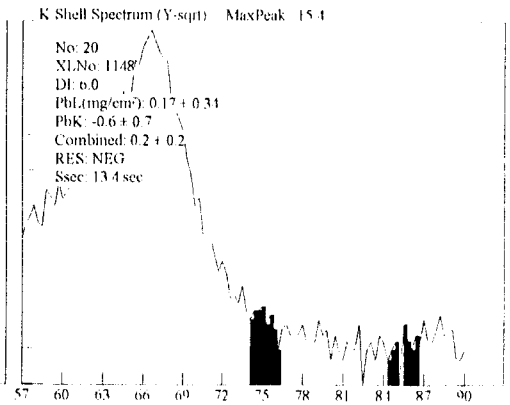

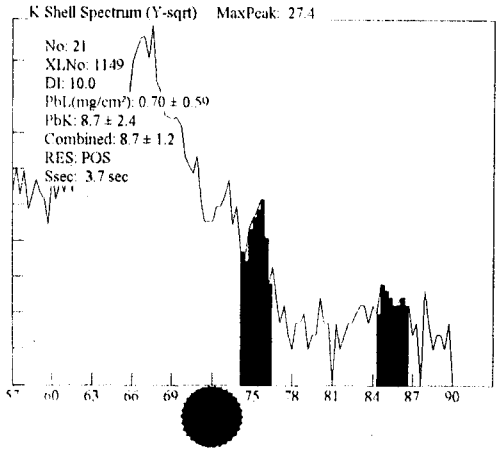

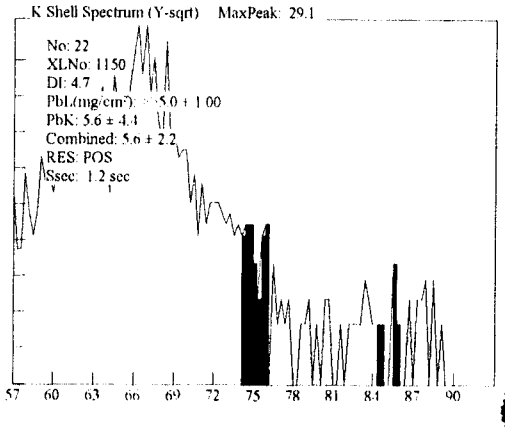

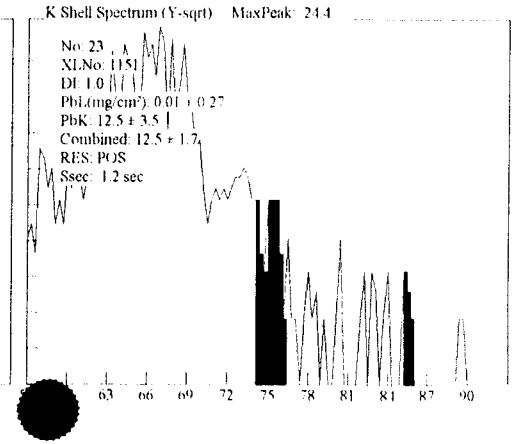

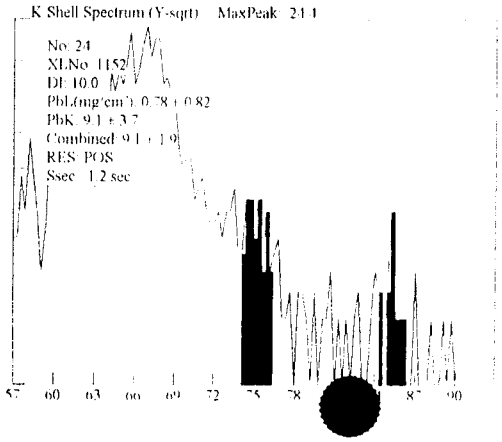

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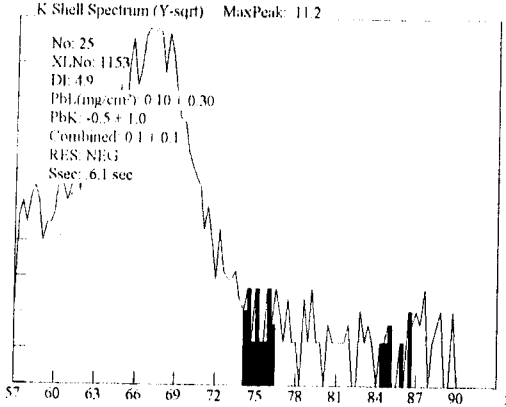

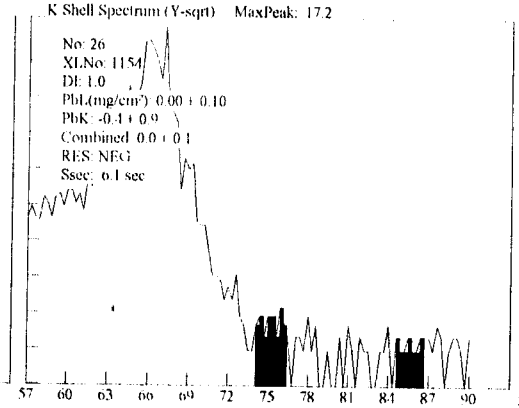

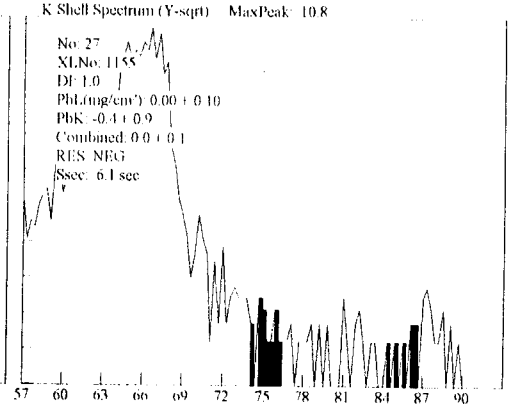

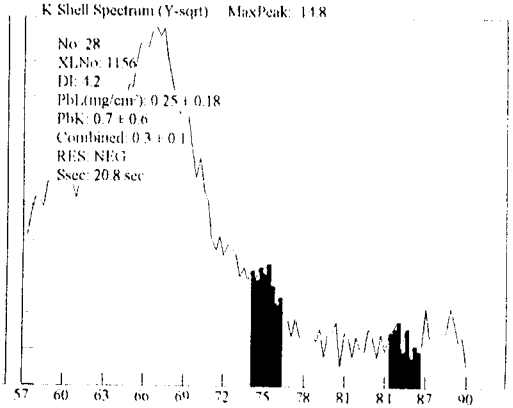

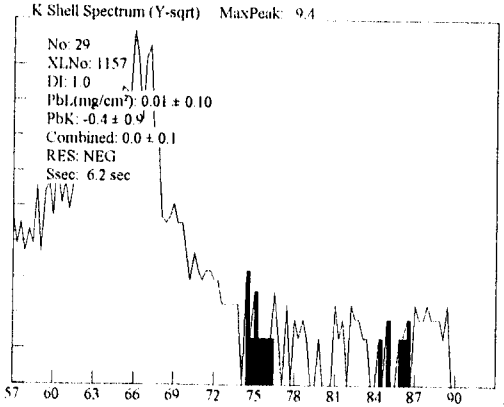

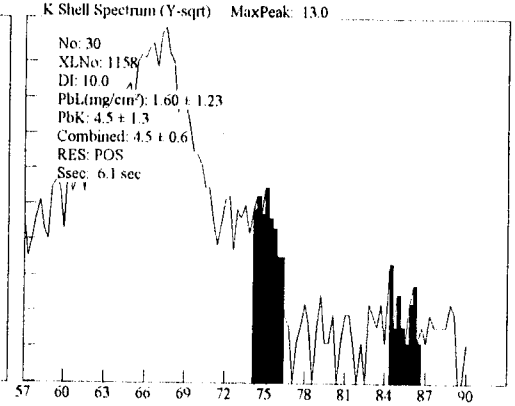

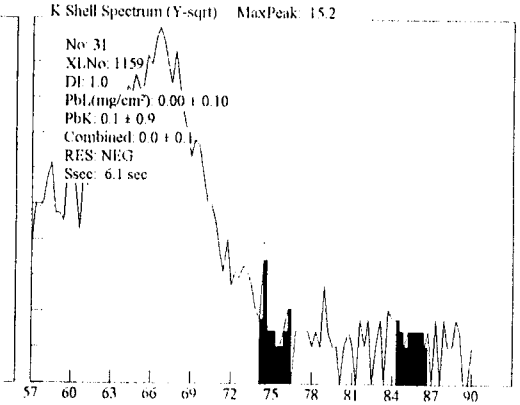

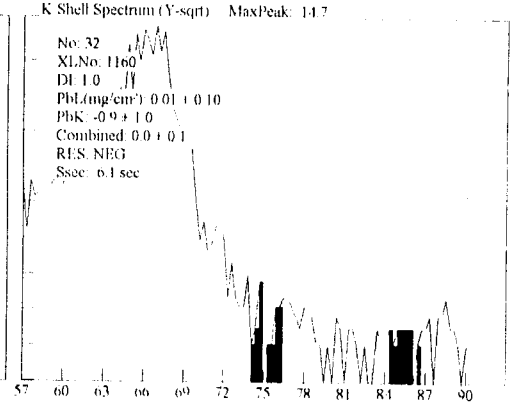

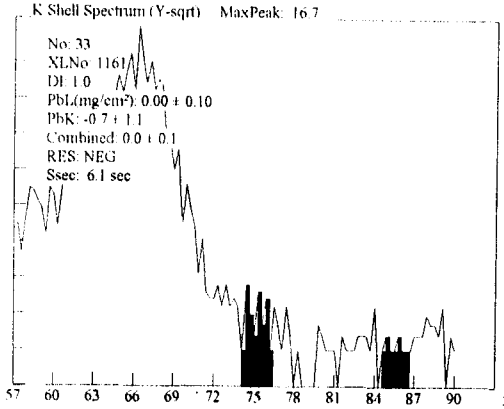

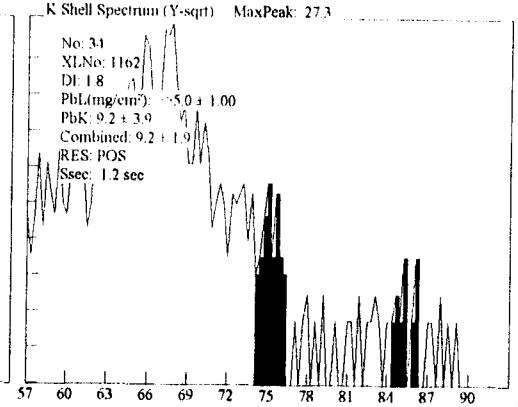

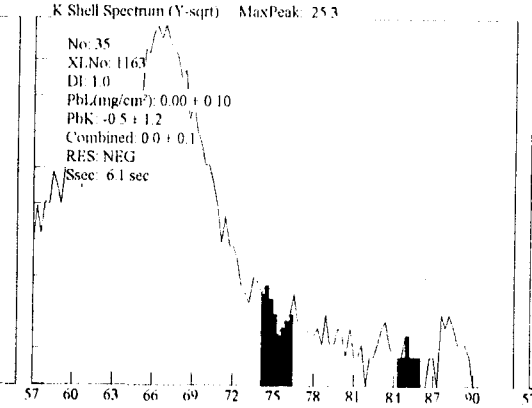

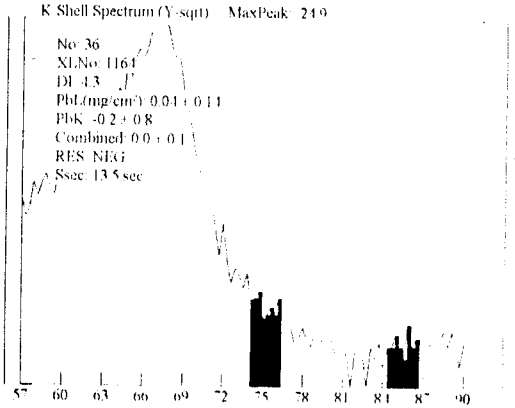

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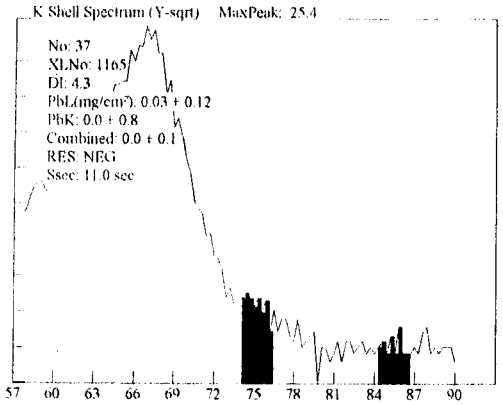

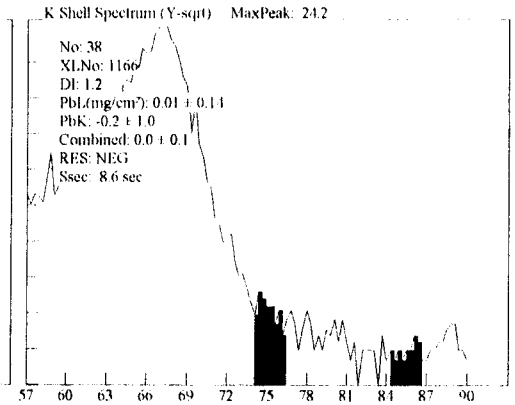

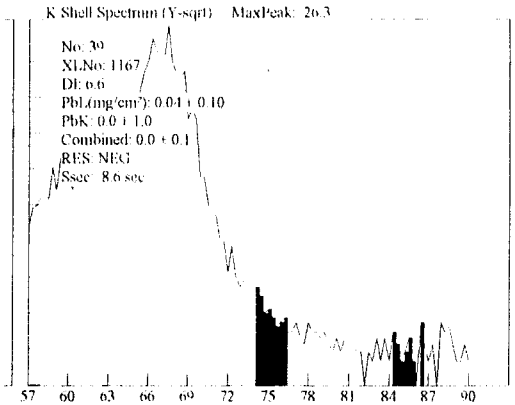

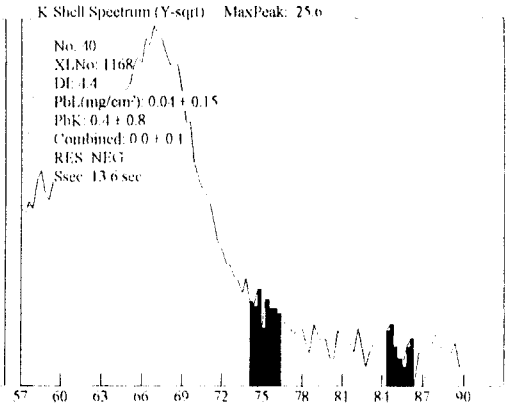

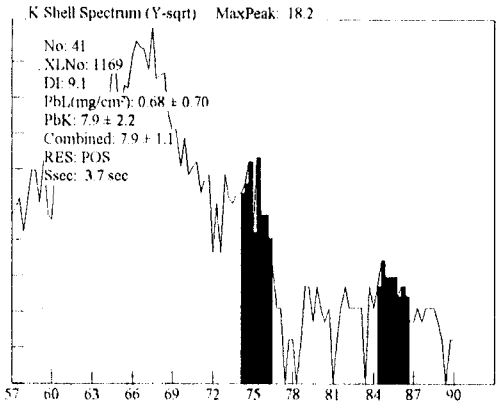

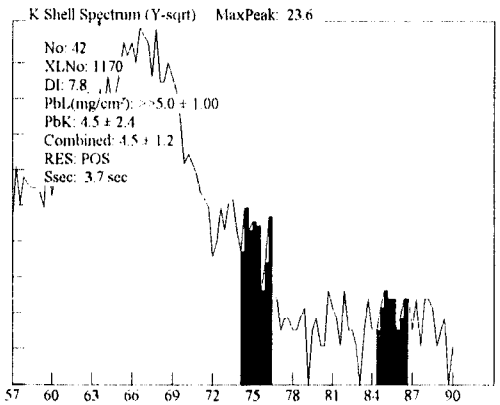

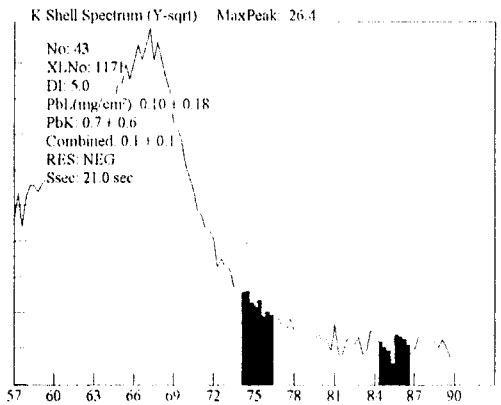

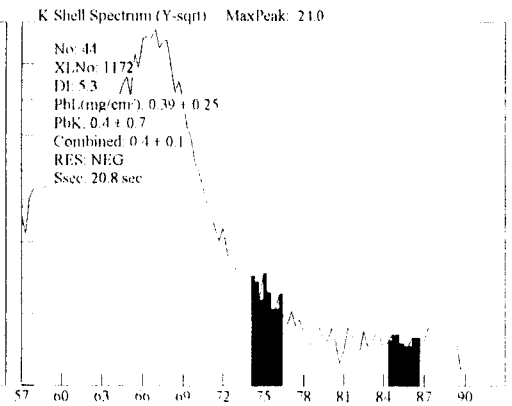

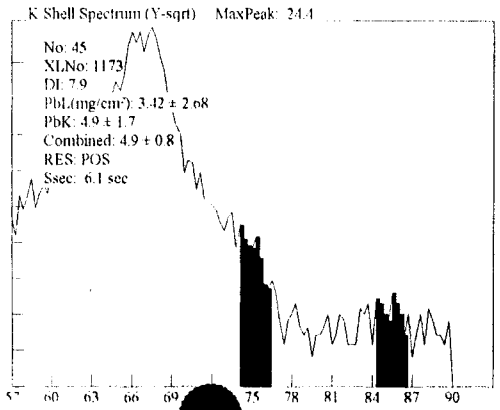

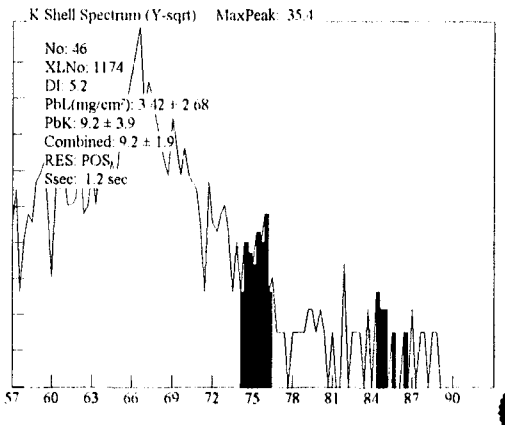

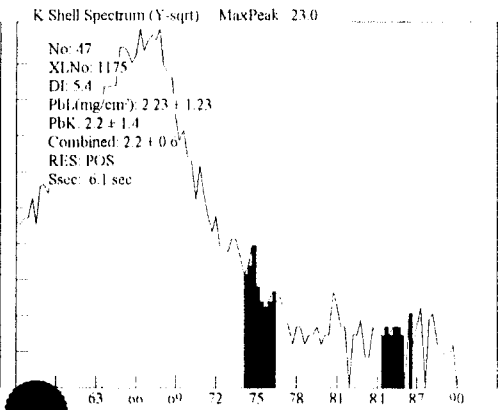

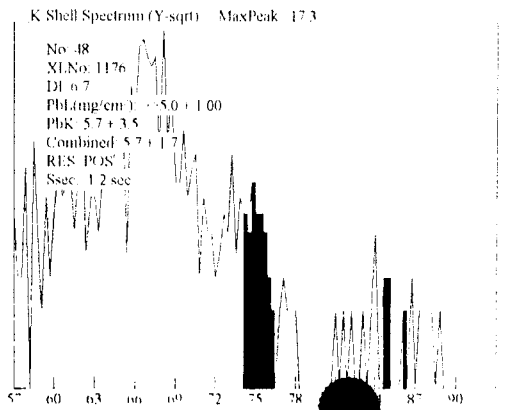

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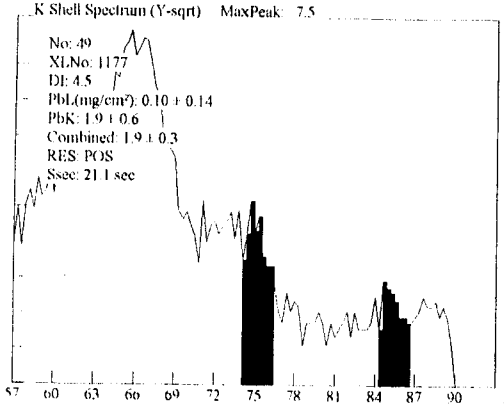

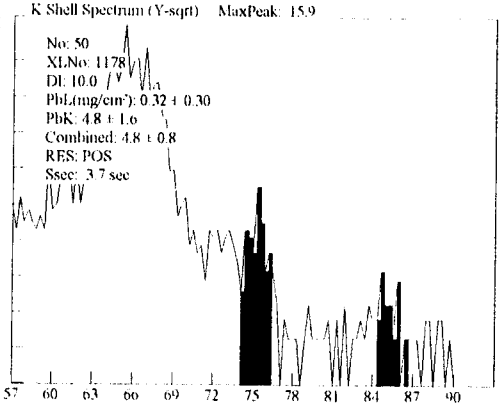

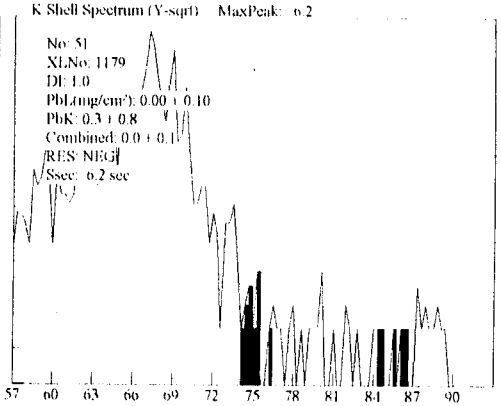

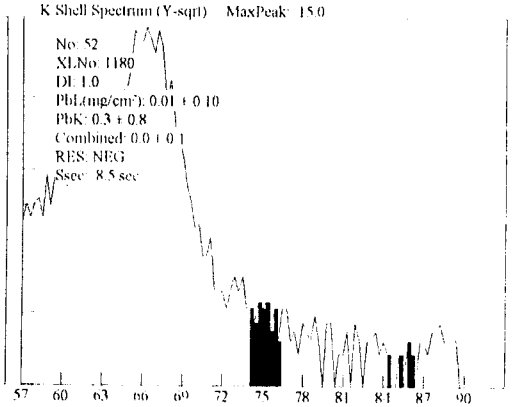

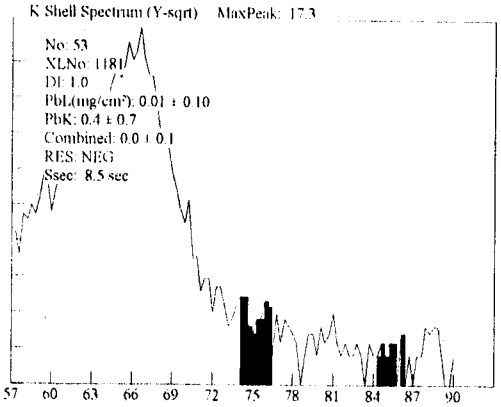

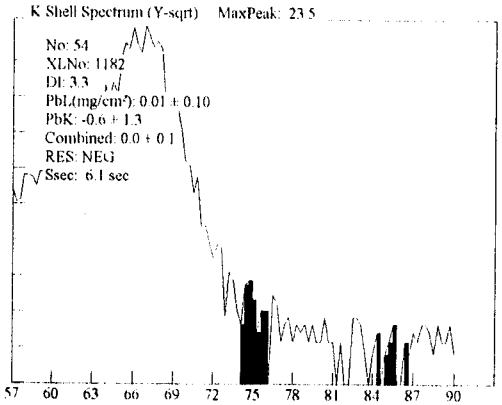

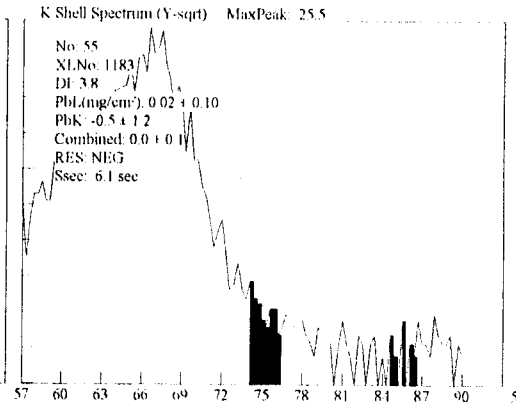

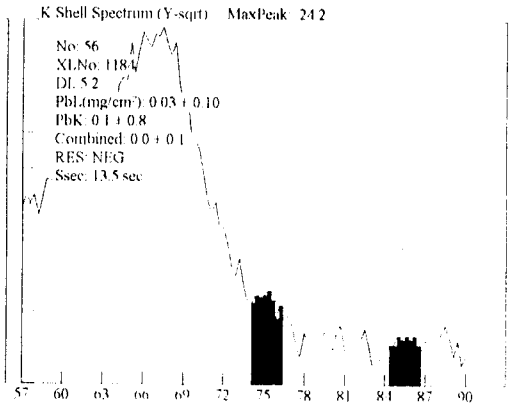

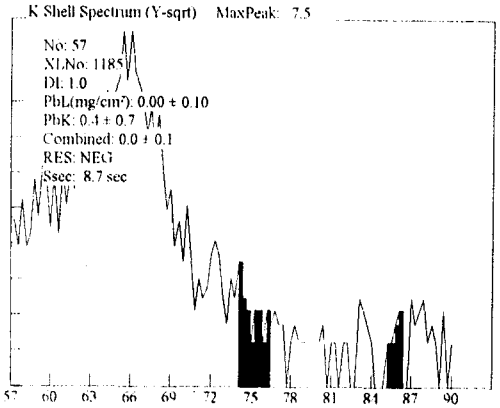

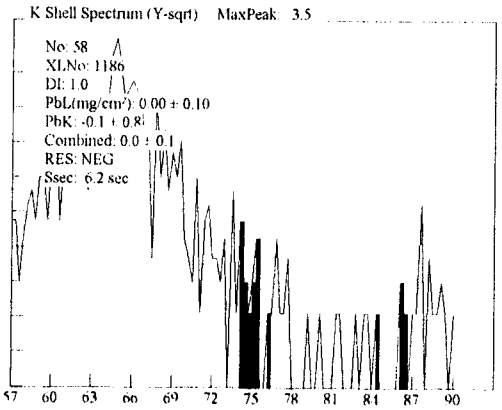

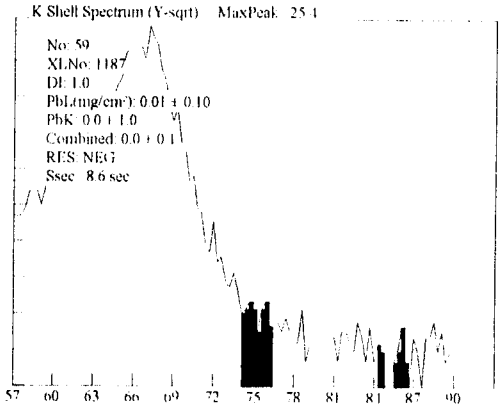

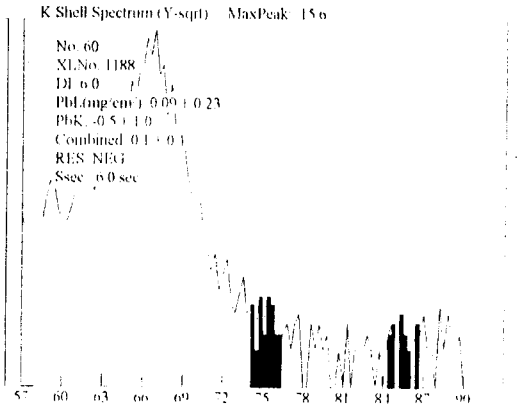

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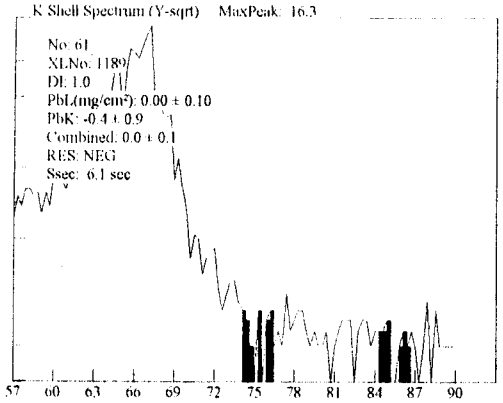

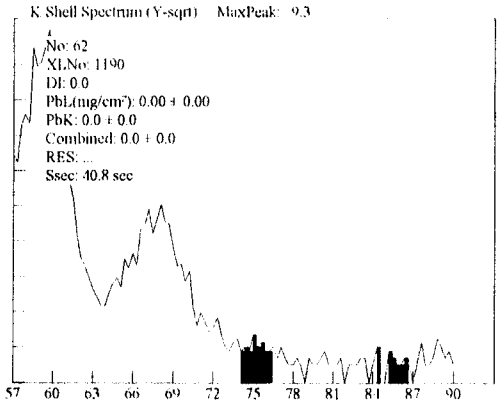

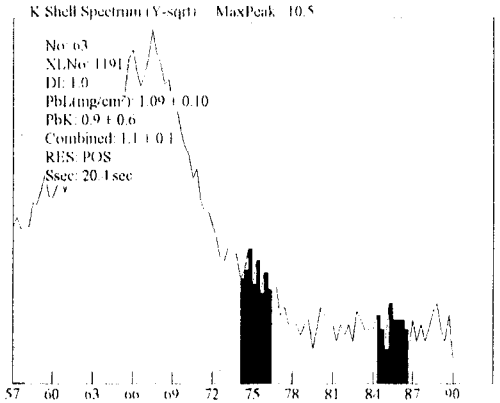

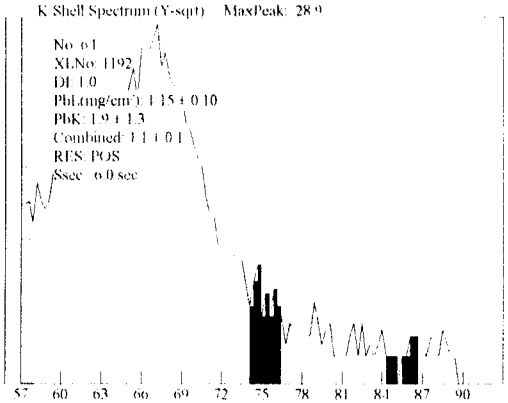

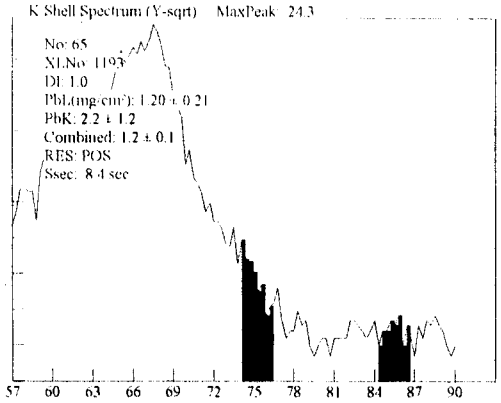

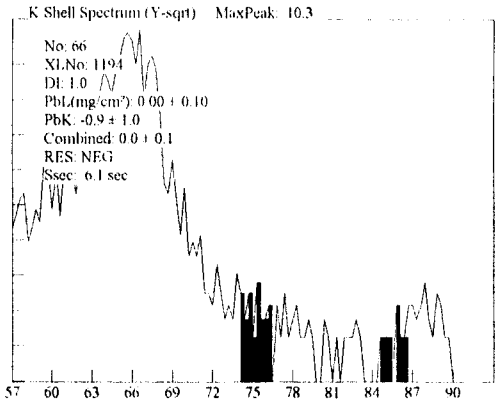

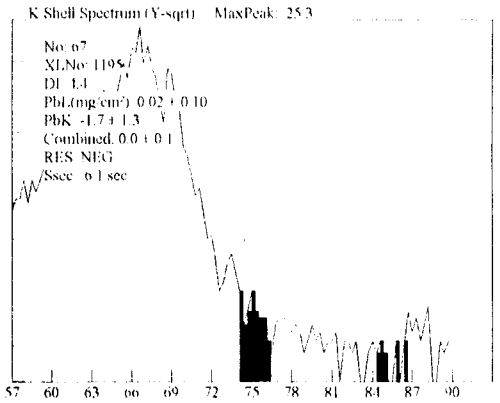

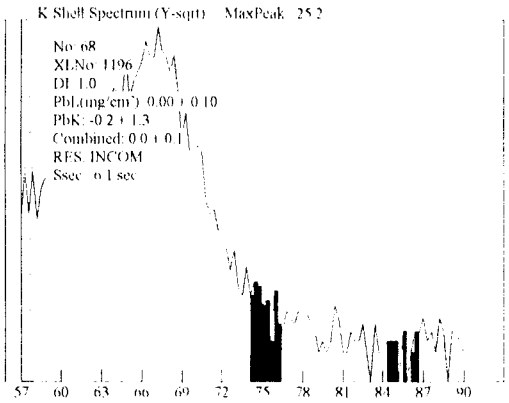

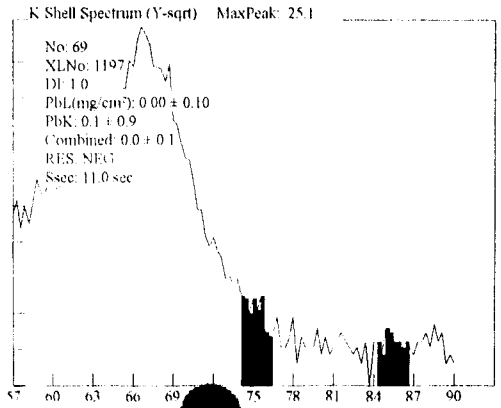

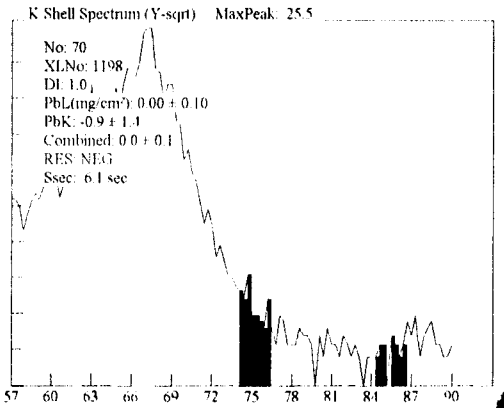

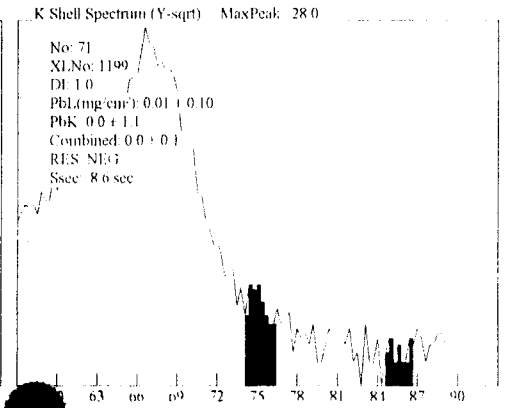

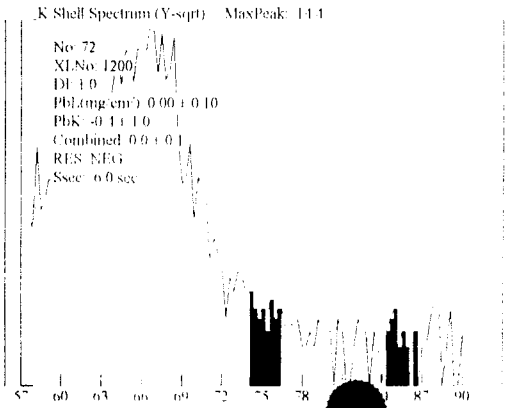

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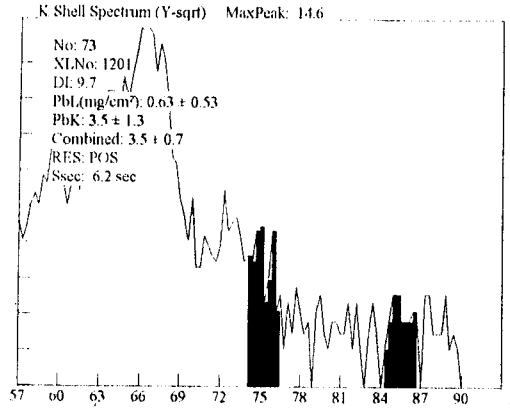

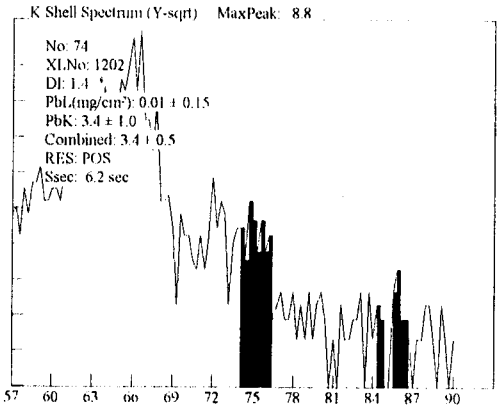

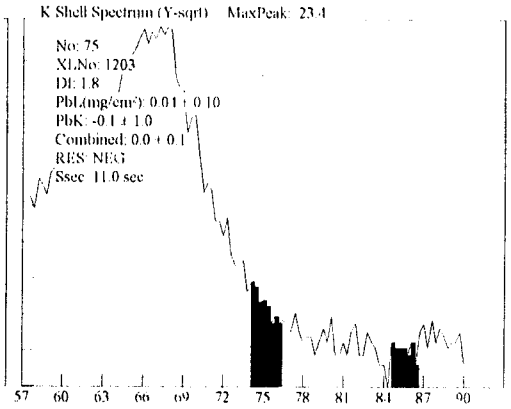

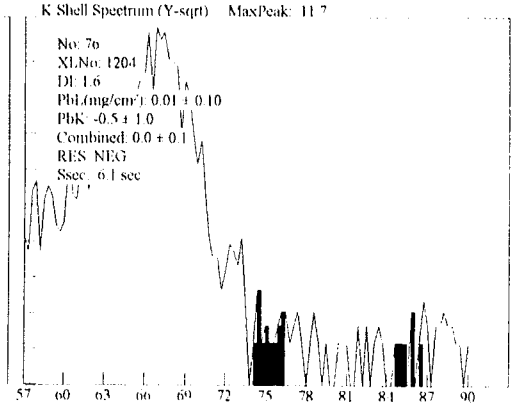

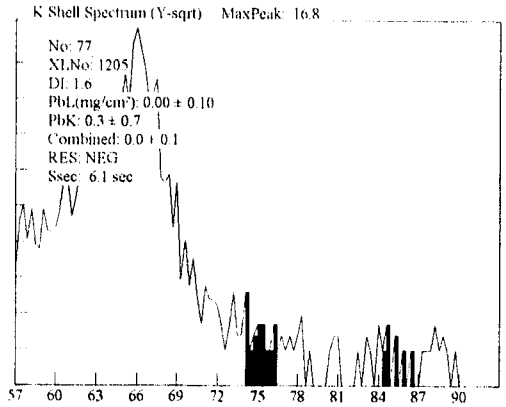

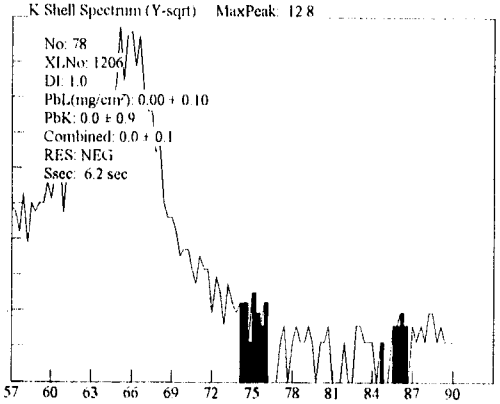

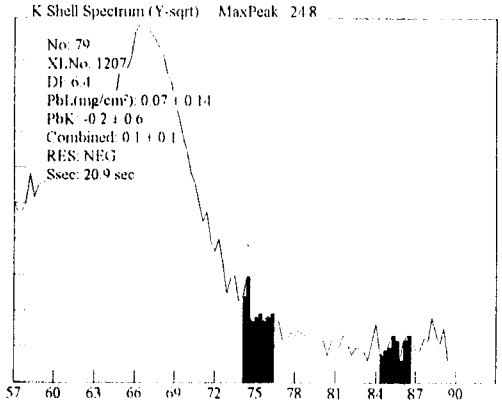

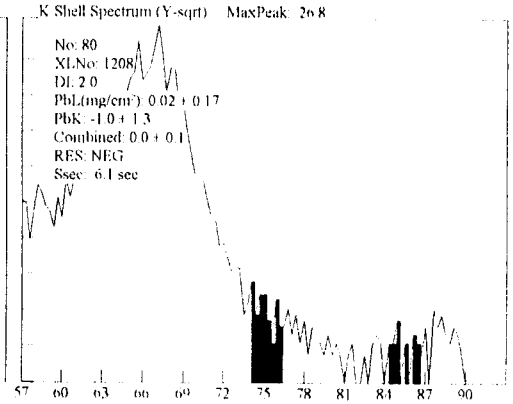

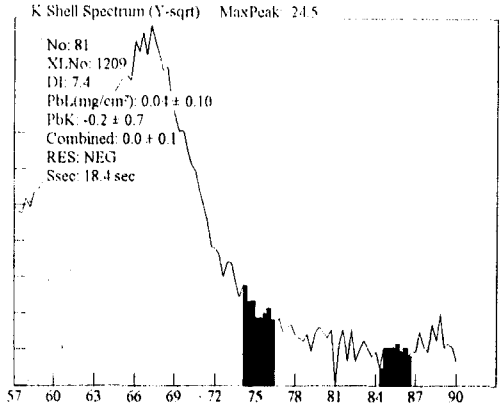

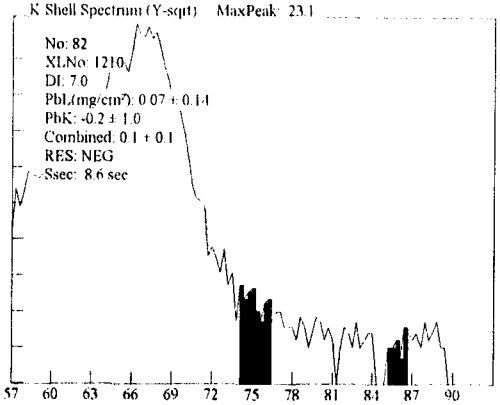

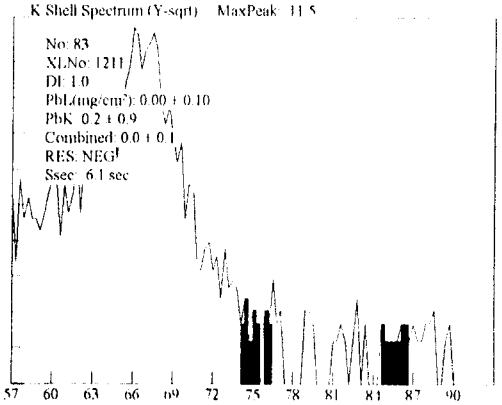

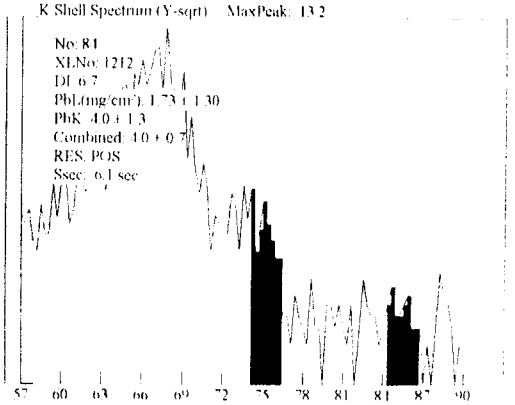

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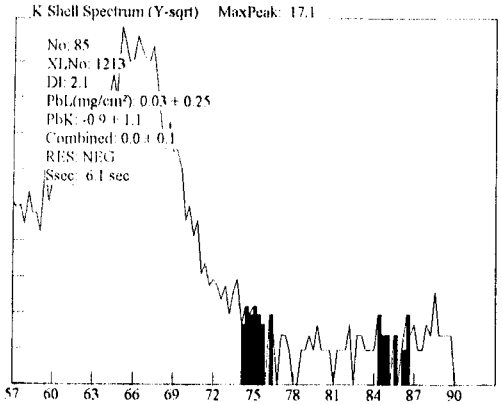

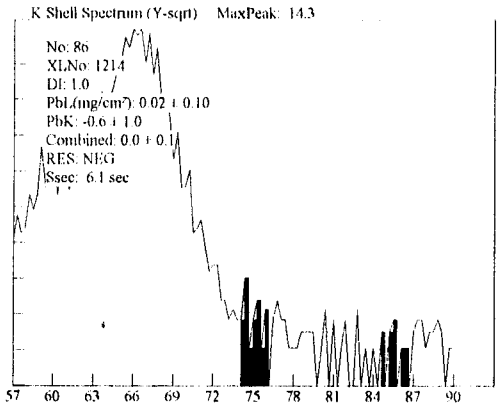

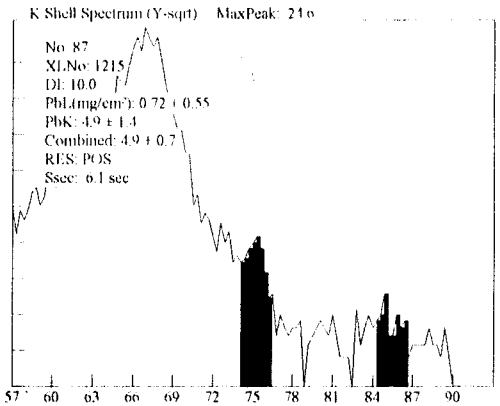

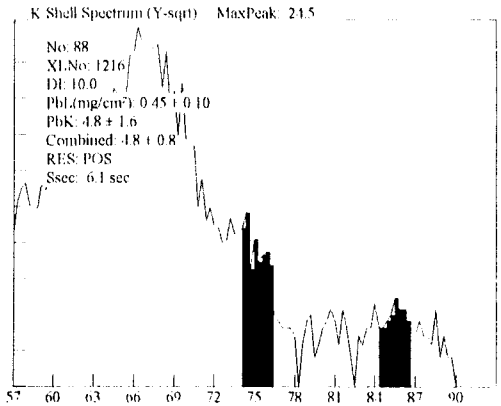

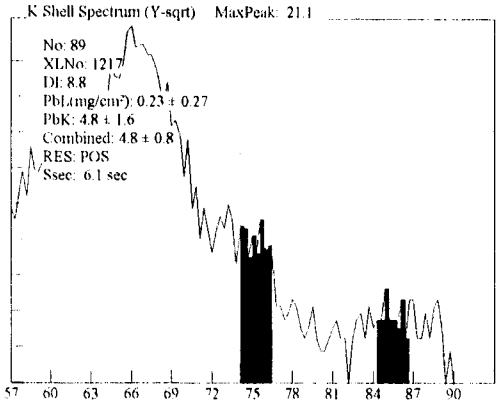

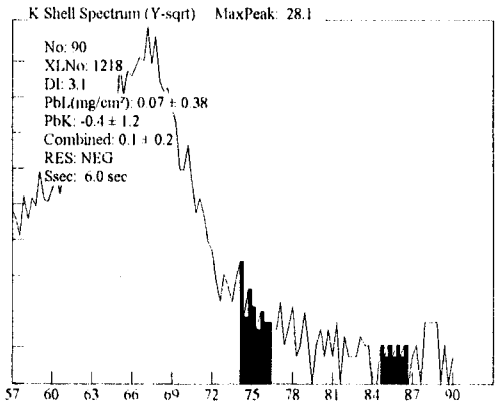

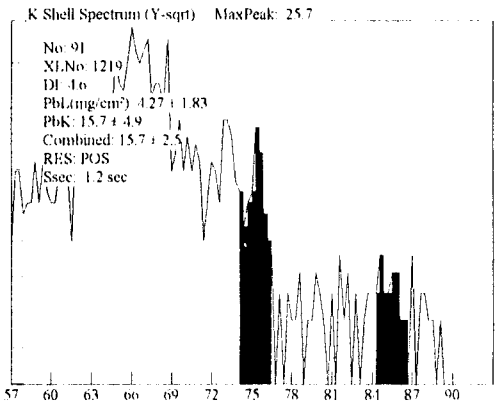

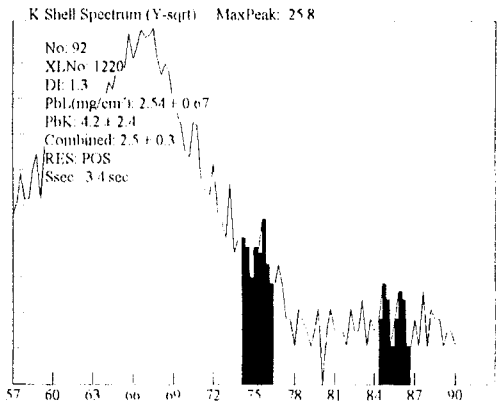

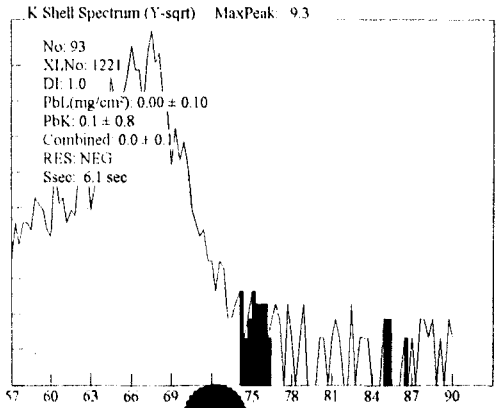

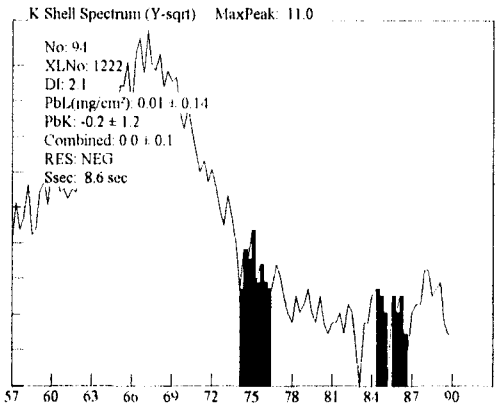

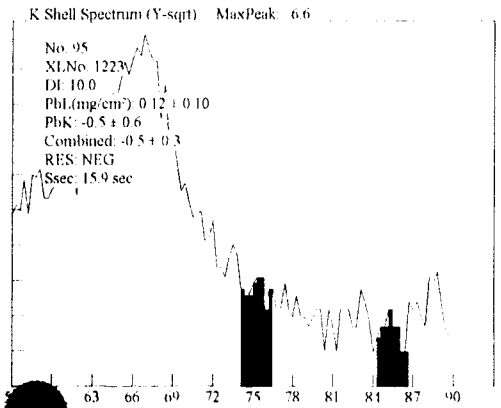

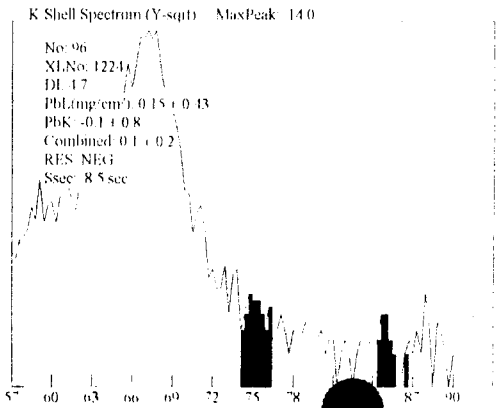

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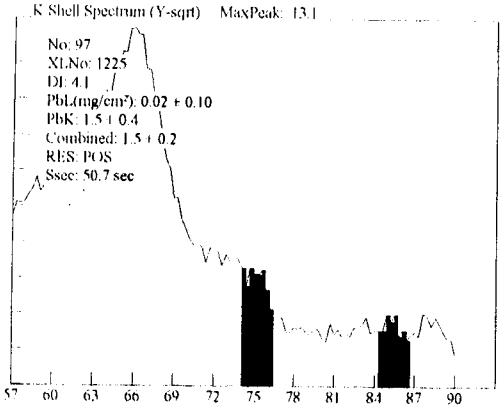

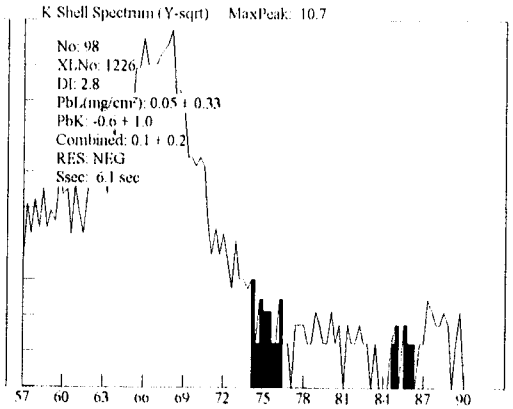

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Serial #XL309-U12673701LY Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
1	**1554**	**1.65 ± 0.31**	**POS**	**1.5 ± 1.5**	**1.6 ± 0.2**	**1.1**	**6.0**	**3/31/100**	**17:13:33**		**1 of 1**
2	**1555**	**1.48 ± 0.23**	**POS**	**2.4 ± 1.7**	**1.5 ± 0.1**	**1.0**	**3.6**	**3/31/100**	**17:13:55**		**1 of 1**
3	**1556**	**1.65 ± 0.31**	**POS**	**-0.1 ± 1.5**	**1.6 ± 0.2**	**1.1**	**6.0**	**3/31/100**	**17:14:11**		**1 of 1**
4	1557	0.00 ± 0.11	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.0	6.2	3/31/100	17:16:36		1 of 1
5	1558	0.01 ± 0.13	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.4	6.2	3/31/100	17:16:56		1 of 1
6	1559	0.10 ± 0.10	NEG	-0.2 ± 0.6	-0.2 ± 0.3	10.0	13.4	3/31/100	17:17:44		1 of 1
7	1560	0.06 ± 0.10	NEG	-0.5 ± 0.6	-0.6 ± 0.3	10.0	20.8	3/31/100	17:18:25		1 of 1
8	1561	0.04 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	5.7	11.0	3/31/100	17:19:14		1 of 1
9	1562	0.05 ± 0.18	NEG	0.0 ± 1.0	0.0 ± 0.1	4.6	8.6	3/31/100	17:19:51		1 of 1
10	1563	0.05 ± 0.10	NEG	0.1 ± 0.5	0.0 ± 0.1	7.0	35.5	3/31/100	17:20:28		1 of 1
11	1564	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	3/31/100	17:22:03		1 of 1
12	1565	0.00 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.0	6.1	3/31/100	17:22:52		1 of 1
13	1566	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	17:23:13		1 of 1
14	1567	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.0	8.6	3/31/100	17:23:36		1 of 1
15	1568	0.04 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	6.7	8.5	3/31/100	17:24:10		1 of 1
16	1569	0.05 ± 0.10	NEG	0.0 ± 0.7	0.0 ± 0.1	7.9	15.9	3/31/100	17:24:36		1 of 1
17	1570	0.03 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	5.6	6.1	3/31/100	17:26:16		1 of 1
18	**1571**	**1.40 ± 1.07**	**POS**	**4.8 ± 1.6**	**4.8 ± 0.8**	**10.0**	**6.1**	**3/31/100**	**17:26:53**		**1 of 1**
19	**1572**	**0.49 ± 0.14**	**POS**	**2.0 ± 0.6**	**2.0 ± 0.3**	**2.9**	**25.8**	**3/31/100**	**17:27:18**		**1 of 1**
20	**1573**	**0.66 ± 0.35**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**6.5**	**20.9**	**3/31/100**	**17:28:19**		**1 of 1**
21	1574	0.17 ± 0.13	NEG	-0.4 ± 0.6	-0.4 ± 0.3	10.0	23.4	3/31/100	17:29:16		1 of 1
22	1575	0.04 ± 0.21	NEG	0.3 ± 0.9	0.0 ± 0.1	3.0	11.1	3/31/100	17:30:14		1 of 1
23	1576	0.03 ± 0.11	NEG	-0.8 ± 1.2	0.0 ± 0.1	1.4	6.2	3/31/100	17:30:53		1 of 1
24	1577	0.18 ± 0.28	NEG	-0.6 ± 1.1	0.2 ± 0.1	7.2	8.6	3/31/100	17:31:13		1 of 1
25	**1578**	**2.27 ± 1.88**	**POS**	**5.6 ± 1.4**	**5.6 ± 0.7**	**8.6**	**6.1**	**3/31/100**	**17:31:57**		**1 of 1**
26	**1579**	**4.64 ± 1.45**	**POS**	**3.4 ± 3.1**	**3.4 ± 1.6**	**9.0**	**1.2**	**3/31/100**	**17:32:31**		**1 of 1**
27	**1580**	**1.18 ± 0.96**	**POS**	**6.5 ± 2.1**	**6.5 ± 1.0**	**10.0**	**3.7**	**3/31/100**	**17:32:52**		**1 of 1**
28	1581	0.01 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	17:33:15		1 of 1
29	1582	0.00 ± 0.10	NEG	-0.5 ± 1.4	0.0 ± 0.1	1.0	6.1	3/31/100	17:33:57		1 of 1
30	**1583**	**2.04 ± 2.09**	**POS**	**9.5 ± 4.0**	**9.5 ± 2.0**	**10.0**	**1.2**	**3/31/100**	**17:34:26**		**1 of 1**
31	**1584**	**0.44 ± 1.87**	**POS**	**9.0 ± 3.7**	**9.0 ± 1.8**	**4.0**	**1.2**	**3/31/100**	**17:34:38**		**1 of 1**
32	**1585**	**2.39 ± 2.09**	**POS**	**6.2 ± 2.2**	**6.2 ± 1.1**	**10.0**	**3.7**	**3/31/100**	**17:35:12**		**1 of 1**
33	1586	0.23 ± 0.15	NEG	0.5 ± 0.4	0.5 ± 0.2	10.0	50.3	3/31/100	17:35:36		1 of 1

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
34	1587	0.16 ± 0.11	NEG	0.4 ± 0.4	0.4 ± 0.2	10.0	50.3	3/31/100	17:37:33		1 of 1
35	1588	0.20 ± 0.14	NEG	0.4 ± 0.4	0.4 ± 0.2	10.0	50.3	3/31/100	17:39:33		1 of 1
36	1589	0.16 ± 0.11	NEG	0.2 ± 0.4	0.2 ± 0.2	10.0	50.3	3/31/100	17:41:32		1 of 1
37	1590	0.19 ± 0.40	NEG	0.1 ± 0.9	0.2 ± 0.2	6.0	6.1	3/31/100	17:44:18		1 of 1
38	**1591**	**0.30 ± 0.43**	**POS**	**6.0 ± 2.0**	**6.0 ± 1.0**	**8.0**	**3.7**	**3/31/100**	**17:45:06**		**1 of 1**
39	**1592**	**1.84 ± 0.75**	**POS**	**2.7 ± 1.2**	**1.8 ± 0.4**	**4.5**	**8.6**	**3/31/100**	**17:46:16**		**1 of 1**
40	**1593**	**1.75 ± 1.46**	**POS**	**7.3 ± 1.9**	**7.3 ± 0.9**	**10.0**	**3.6**	**3/31/100**	**17:47:03**		**1 of 1**
41	**1594**	**0.77 ± 1.30**	**POS**	**4.1 ± 1.4**	**4.1 ± 0.7**	**6.9**	**3.7**	**3/31/100**	**17:47:16**		**1 of 1**
42	**1595**	**1.71 ± 1.41**	**POS**	**4.9 ± 1.8**	**4.9 ± 0.9**	**5.0**	**3.6**	**3/31/100**	**17:47:30**		**1 of 1**
43	1596	0.16 ± 0.18	NEG	0.9 ± 0.7	0.2 ± 0.1	4.6	20.8	3/31/100	17:47:46		1 of 1
44	1597	0.23 ± 0.34	NEG	-0.3 ± 0.7	0.2 ± 0.2	6.4	15.9	3/31/100	17:48:58		1 of 1
45	1598	0.13 ± 0.15	NEG	0.6 ± 0.7	0.1 ± 0.1	4.1	20.8	3/31/100	17:49:38		1 of 1
46	1599	0.10 ± 0.21	NEG	0.2 ± 1.0	0.1 ± 0.1	3.6	11.0	3/31/100	17:50:27		1 of 1
47	**1600**	**3.50 ± 2.60**	**POS**	**3.9 ± 1.5**	**3.9 ± 0.7**	**10.0**	**6.1**	**3/31/100**	**17:51:09**		**1 of 1**
48	**1601**	**2.10 ± 1.68**	**POS**	**6.0 ± 1.6**	**6.0 ± 0.8**	**10.0**	**6.1**	**3/31/100**	**17:51:42**		**1 of 1**
49	1602	0.03 ± 0.10	NEG	0.7 ± 0.7	0.0 ± 0.1	1.6	20.8	3/31/100	17:52:34		1 of 1
50	1603	0.17 ± 0.16	NEG	0.9 ± 0.6	0.2 ± 0.1	4.9	28.2	3/31/100	17:53:51		1 of 1
51	1604	0.00 ± 0.10	NEG	-1.0 ± 1.3	0.0 ± 0.1	1.0	6.2	3/31/100	17:55:43		1 of 1
52	1605	0.07 ± 0.29	NEG	-0.5 ± 1.0	0.1 ± 0.1	2.5	6.1	3/31/100	17:56:50		1 of 1
53	**1606**	**0.96 ± 0.73**	**POS**	**4.3 ± 1.5**	**4.3 ± 0.8**	**10.0**	**6.1**	**3/31/100**	**17:57:10**		**1 of 1**
54	**1607**	**0.84 ± 0.69**	**POS**	**8.6 ± 1.9**	**8.6 ± 1.0**	**10.0**	**3.7**	**3/31/100**	**17:57:29**		**1 of 1**
55	1608	0.18 ± 0.16	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	13.3	3/31/100	18:02:01		1 of 1
56	1609	0.32 ± 0.28	NEG	-0.4 ± 1.2	0.3 ± 0.1	2.6	6.1	3/31/100	18:03:16		1 of 1
57	1610	0.12 ± 0.10	NEG	0.5 ± 0.7	0.1 ± 0.1	2.4	20.7	3/31/100	18:03:41		1 of 1
58	**1611**	**2.17 ± 1.00**	**POS**	**2.7 ± 1.2**	**2.2 ± 0.5**	**5.6**	**8.5**	**3/31/100**	**18:04:43**		**1 of 1**
59	**1612**	**2.41 ± 1.13**	**POS**	**2.5 ± 1.3**	**2.4 ± 0.6**	**6.1**	**8.6**	**3/31/100**	**18:05:28**		**1 of 1**
60	**1613**	**>>5.0 ± 1.00**	**POS**	**6.2 ± 2.4**	**6.2 ± 1.2**	**8.2**	**3.6**	**3/31/100**	**18:06:26**		**1 of 1**
61	**1614**	**3.86 ± 2.24**	**POS**	**5.5 ± 1.8**	**5.5 ± 0.9**	**9.7**	**3.7**	**3/31/100**	**18:06:44**		**1 of 1**
62	1615	0.07 ± 0.16	NEG	-0.1 ± 1.1	0.1 ± 0.1	2.5	8.6	3/31/100	18:07:18		1 of 1
63	**1616**	**1.41 ± 1.15**	**POS**	**6.3 ± 2.1**	**6.3 ± 1.1**	**10.0**	**3.7**	**3/31/100**	**18:08:10**		**1 of 1**
64	**1617**	**0.56 ± 0.95**	**POS**	**5.9 ± 1.9**	**5.9 ± 1.0**	**6.9**	**3.7**	**3/31/100**	**18:08:23**		**1 of 1**
65	**1618**	**1.18 ± 1.19**	**POS**	**9.7 ± 3.5**	**9.7 ± 1.7**	**10.0**	**1.2**	**3/31/100**	**18:08:36**		**1 of 1**
66	1619	0.03 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	6.2	8.5	3/31/100	18:08:51		1 of 1
67	1620	0.00 ± 0.10	NEG	-1.2 ± 1.3	0.0 ± 0.1	1.0	6.1	3/31/100	18:09:17		1 of 1

Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
68	1621	0.00 ± 0.10	NEG	-0.7 ± 1.3	0.0 ± 0.1	1.0	6.1	3/31/100	18:09:39		1 of 1
69	1622	0.05 ± 0.10	NEG	0.1 ± 0.6	0.0 ± 0.3	10.0	30.2	3/31/100	18:10:07		1 of 1
70	1623	0.06 ± 0.10	NEG	0.3 ± 0.8	0.1 ± 0.1	7.9	13.5	3/31/100	18:11:57		1 of 1
71	**1624**	**0.22 ± 0.16**	**POS**	**2.6 ± 0.8**	**2.6 ± 0.4**	**10.0**	**16.1**	**3/31/100**	**18:14:14**		**1 of 1**
72	1625	0.00 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	1.0	6.1	3/31/100	18:15:10		1 of 1
73	1626	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/31/100	18:21:08		1 of 1
74	**1627**	**1.18 ± 0.14**	**POS**	**0.9 ± 0.8**	**1.2 ± 0.1**	**1.0**	**18.1**	**3/31/100**	**18:23:37**		**1 of 1**
75	1628	0.63 ± 0.10	NEG	-0.2 ± 0.7	0.6 ± 0.1	1.0	20.7	3/31/100	18:24:27		1 of 1
76	1629	0.07 ± 0.15	NEG	-0.3 ± 1.0	0.1 ± 0.1	7.1	8.6	3/31/100	18:27:10		1 of 1
77	1630	0.09 ± 0.10	NEG	-0.4 ± 0.6	-0.4 ± 0.3	10.0	23.3	3/31/100	18:28:37		1 of 1
78	1631	0.15 ± 0.50	NEG	-0.7 ± 1.0	0.1 ± 0.2	4.3	6.1	3/31/100	18:30:53		1 of 1
79	1632	0.01 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	18:31:13		1 of 1
80	1633	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	18:31:31		1 of 1
81	1634	0.12 ± 0.23	NEG	0.0 ± 0.7	0.1 ± 0.1	6.4	13.3	3/31/100	18:32:33		1 of 1
82	1635	0.01 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	11.1	3/31/100	18:33:32		1 of 1
83	1636	0.05 ± 0.27	NEG	0.2 ± 0.7	0.0 ± 0.1	2.8	8.5	3/31/100	18:34:35		1 of 1
84	**1637**	**1.99 ± 1.68**	**POS**	**5.9 ± 1.8**	**5.9 ± 0.9**	**10.0**	**3.7**	**3/31/100**	**18:35:02**		**1 of 1**
85	**1638**	**1.02 ± 1.03**	**POS**	**6.2 ± 2.0**	**6.2 ± 1.0**	**10.0**	**1.2**	**3/31/100**	**18:35:17**		**1 of 1**
86	1639	0.02 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	18:35:34		1 of 1
87	1640	0.05 ± 0.16	NEG	-0.5 ± 1.3	0.0 ± 0.1	2.0	6.1	3/31/100	18:36:35		1 of 1
88	1641	0.09 ± 0.30	NEG	0.0 ± 1.0	0.1 ± 0.2	3.8	8.6	3/31/100	18:36:54		1 of 1
89	1642	0.14 ± 0.44	NEG	-0.6 ± 1.2	0.1 ± 0.2	4.1	6.1	3/31/100	18:37:19		1 of 1
90	1643	0.16 ± 0.41	NEG	-0.5 ± 1.2	0.2 ± 0.2	5.3	6.1	3/31/100	18:37:36		1 of 1
91	**1644**	**2.28 ± 2.02**	**POS**	**3.7 ± 1.3**	**3.6 ± 0.6**	**9.0**	**6.1**	**3/31/100**	**18:37:56**		**1 of 1**
92	**1645**	**2.58 ± 3.51**	**POS**	**4.6 ± 1.7**	**4.6 ± 0.8**	**10.0**	**3.7**	**3/31/100**	**18:38:20**		**1 of 1**
93	1646	0.05 ± 0.13	NEG	0.0 ± 1.0	0.0 ± 0.1	2.5	11.0	3/31/100	18:40:36		1 of 1
94	1647	0.07 ± 0.10	NEG	0.9 ± 0.7	0.1 ± 0.1	2.7	20.8	3/31/100	18:41:20		1 of 1
95	**1648**	**2.38 ± 1.96**	**POS**	**5.4 ± 1.4**	**5.4 ± 0.7**	**10.0**	**6.1**	**3/31/100**	**18:42:29**		**1 of 1**
96	**1649**	**2.22 ± 1.51**	**POS**	**4.0 ± 1.2**	**4.0 ± 0.6**	**8.6**	**8.5**	**3/31/100**	**18:42:51**		**1 of 1**
97	**1650**	**2.45 ± 3.65**	**POS**	**7.2 ± 1.8**	**7.2 ± 0.9**	**9.5**	**3.7**	**3/31/100**	**18:43:19**		**1 of 1**
98	**1651**	**0.63 ± 0.75**	**POS**	**4.6 ± 1.6**	**4.6 ± 0.8**	**4.3**	**3.7**	**3/31/100**	**18:43:34**		**1 of 1**
99	1652	0.23 ± 0.16	NEG	0.3 ± 0.8	0.2 ± 0.1	2.5	10.9	3/31/100	18:44:01		1 of 1
100	1653	0.12 ± 0.14	NEG	-0.2 ± 1.1	0.1 ± 0.1	2.1	8.5	3/31/100	18:45:02		1 of 1
101	1654	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	13.4	3/31/100	18:45:32		1 of 1

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

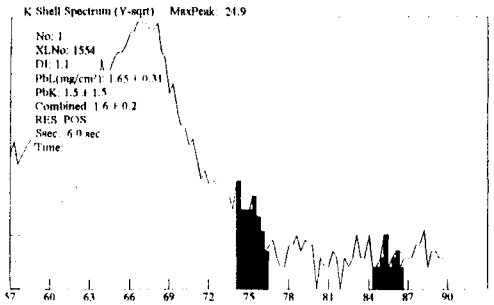
No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
102	1655	0.28 ± 0.25	NEG	-0.1 ± 0.8	0.3 ± 0.1	4.2	13.4	3/31/100	18:46:10		1 of 1
103	1656	0.38 ± 0.28	NEG	0.2 ± 0.7	0.4 ± 0.1	5.8	20.8	3/31/100	18:46:46		1 of 1
104	1657	0.65 ± 0.10	NEG	1.0 ± 0.6	0.6 ± 0.1	1.2	27.9	3/31/100	18:48:16		1 of 1
105	**1658**	**1.44 ± 0.50**	**POS**	**5.7 ± 1.9**	**5.7 ± 0.9**	**2.4**	**6.0**	**3/31/100**	**18:52:44**		**1 of 1**
106	**1659**	**1.86 ± 1.88**	**POS**	**14.0 ± 3.8**	**14.0 ± 1.9**	**10.0**	**1.2**	**3/31/100**	**18:53:24**		**1 of 1**
107	**1660**	**1.16 ± 0.94**	**POS**	**8.5 ± 2.2**	**8.5 ± 1.1**	**10.0**	**3.7**	**3/31/100**	**18:53:52**		**1 of 1**
108	**1661**	**0.70 ± 0.59**	**POS**	**4.9 ± 1.7**	**4.9 ± 0.9**	**10.0**	**3.7**	**3/31/100**	**18:54:05**		**1 of 1**
109	**1662**	**3.34 ± 2.75**	**POS**	**13.3 ± 3.9**	**13.3 ± 2.0**	**10.0**	**1.2**	**3/31/100**	**18:54:24**		**1 of 1**
110	1663	0.01 ± 0.11	NEG	0.1 ± 0.8	0.0 ± 0.1	1.3	13.5	3/31/100	18:56:24		1 of 1
111	1664	0.02 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	4.8	11.0	3/31/100	18:58:30		1 of 1
112	1665	0.02 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	5.9	11.0	3/31/100	18:59:28		1 of 1
113	1666	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	19:01:15		1 of 1
114	1667	0.02 ± 0.38	INCOM	3.9 ± 3.6	0.0 ± 0.2	1.5	1.2	3/31/100	19:02:16		1 of 1
115	**1668**	**0.53 ± 0.42**	**POS**	**4.0 ± 1.4**	**4.0 ± 0.7**	**10.0**	**6.1**	**3/31/100**	**19:02:41**		**1 of 1**
116	**1669**	**1.25 ± 1.67**	**POS**	**12.4 ± 4.0**	**12.4 ± 2.0**	**8.7**	**1.2**	**3/31/100**	**19:03:22**		**1 of 1**
117	**1670**	**1.26 ± 1.26**	**POS**	**11.1 ± 3.9**	**11.1 ± 2.0**	**10.0**	**1.2**	**3/31/100**	**19:03:37**		**1 of 1**
118	**1671**	**3.10 ± 2.99**	**POS**	**5.7 ± 1.7**	**5.7 ± 0.9**	**10.0**	**6.1**	**3/31/100**	**19:04:05**		**1 of 1**
119	**1672**	**1.16 ± 0.90**	**POS**	**4.6 ± 1.4**	**4.6 ± 0.7**	**5.9**	**6.1**	**3/31/100**	**19:04:26**		**1 of 1**
120	**1673**	**1.97 ± 2.41**	**POS**	**5.6 ± 2.0**	**5.6 ± 1.0**	**8.6**	**3.7**	**3/31/100**	**19:04:43**		**1 of 1**
121	1674	0.04 ± 0.13	NEG	-1.1 ± 1.3	0.0 ± 0.1	1.6	6.1	3/31/100	19:05:13		1 of 1
122	1675	0.02 ± 0.11	NEG	-0.5 ± 1.2	0.0 ± 0.1	1.2	6.1	3/31/100	19:05:30		1 of 1
123	1676	0.11 ± 0.23	NEG	-0.2 ± 1.2	0.1 ± 0.1	6.7	6.1	3/31/100	19:05:53		1 of 1
124	1677	0.20 ± 0.34	NEG	0.1 ± 0.8	0.2 ± 0.2	5.8	13.5	3/31/100	19:06:10		1 of 1
125	**1678**	**3.51 ± 2.59**	**POS**	**5.0 ± 1.7**	**5.0 ± 0.9**	**6.1**	**3.7**	**3/31/100**	**19:07:00**		**1 of 1**
126	**1679**	**2.90 ± 3.19**	**POS**	**7.2 ± 2.9**	**7.2 ± 1.4**	**10.0**	**1.2**	**3/31/100**	**19:07:29**		**1 of 1**
127	1680	0.23 ± 0.34	NEG	-0.3 ± 0.9	0.2 ± 0.2	5.5	13.4	3/31/100	19:07:48		1 of 1
128	1681	0.10 ± 0.39	NEG	-0.7 ± 1.3	0.1 ± 0.2	3.8	6.1	3/31/100	19:08:46		1 of 1
129	1682	0.00 ± 0.12	NEG	-1.7 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	19:09:05		1 of 1
130	**1683**	**2.55 ± 1.29**	**POS**	**1.5 ± 1.2**	**2.5 ± 0.6**	**6.7**	**8.5**	**3/31/100**	**19:09:48**		**1 of 1**
131	1684	0.19 ± 0.36	NEG	-0.8 ± 1.4	0.2 ± 0.2	3.5	6.1	3/31/100	19:10:47		1 of 1
132	1685	0.59 ± 0.38	NEG	0.2 ± 0.7	0.6 ± 0.2	6.8	20.6	3/31/100	19:11:34		1 of 1
133	**1686**	**2.94 ± 3.16**	**POS**	**8.4 ± 2.4**	**8.4 ± 1.2**	**4.4**	**3.6**	**3/31/100**	**19:12:44**		**1 of 1**
134	1687	0.70 ± 0.35	NEG	0.8 ± 0.6	0.7 ± 0.2	6.5	23.2	3/31/100	19:13:02		1 of 1
135	1688	0.10 ± 0.40	NEG	-0.2 ± 1.3	0.1 ± 0.2	3.8	6.1	3/31/100	19:14:12		1 of 1

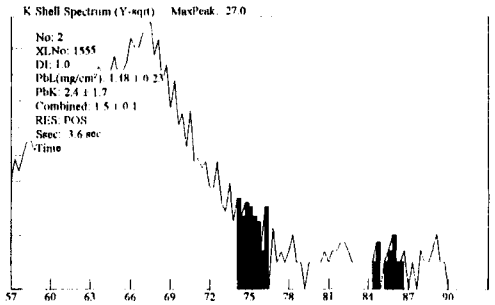
Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

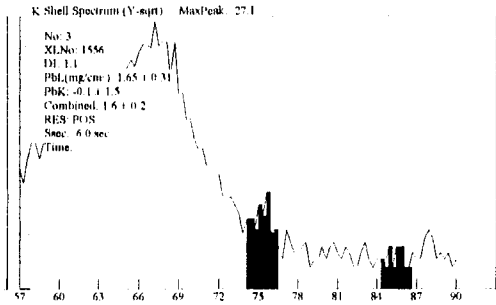
No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
136	**1689**	**>>5.0 ± 1.00**	**POS**	**7.8 ± 4.2**	**7.8 ± 2.1**	**5.9**	**1.2**	**3/31/100**	**19:15:11**		**1 of 1**
137	1690	0.01 ± 0.20	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.4	6.1	3/31/100	19:15:34		1 of 1
138	**1691**	**3.79 ± 2.31**	**POS**	**5.2 ± 2.0**	**5.2 ± 1.0**	**4.0**	**3.6**	**3/31/100**	**19:16:40**		**1 of 1**
139	1692	0.19 ± 0.17	NEG	0.3 ± 0.9	0.2 ± 0.1	2.9	11.0	3/31/100	19:17:30		1 of 1

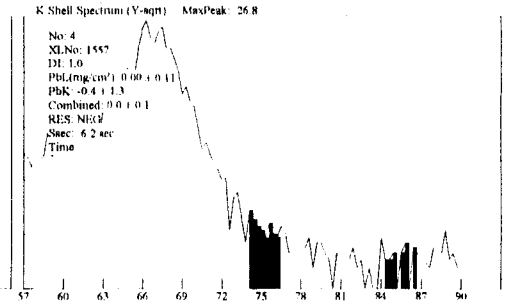
Site: Ranges (NEG<INC<POS): Device PCS

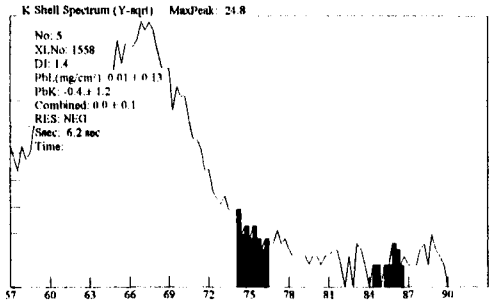
Date: 3/31/100 444B Paint Page 1

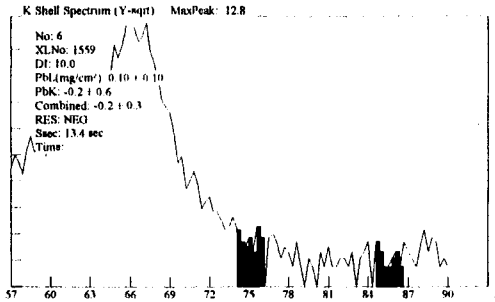


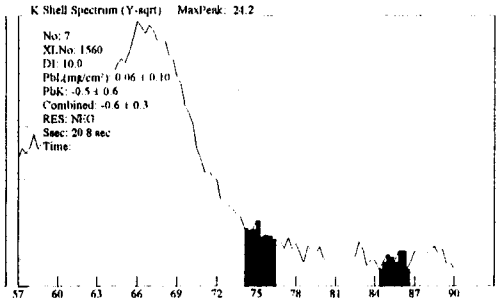


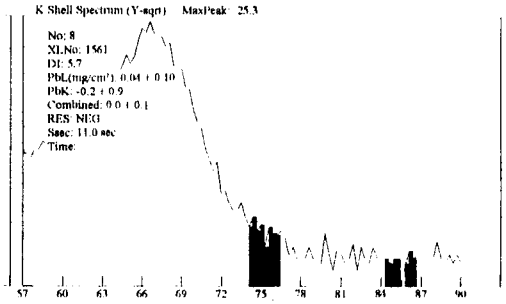


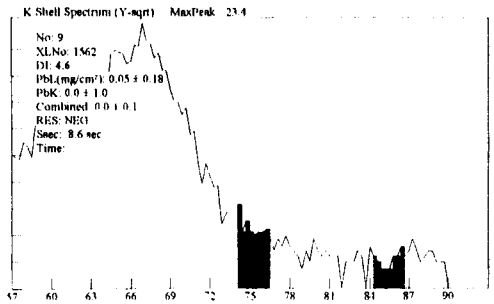


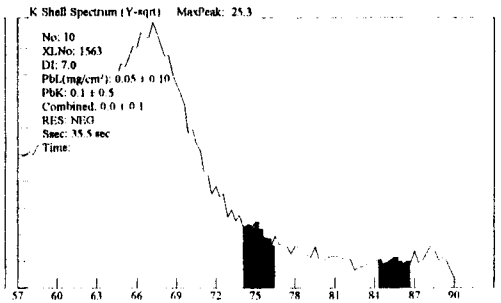


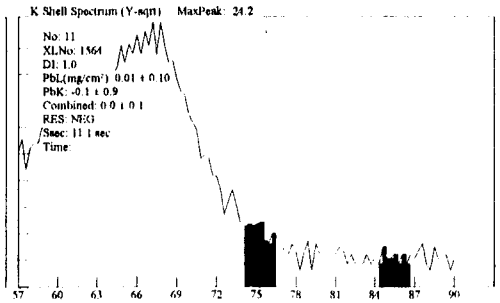


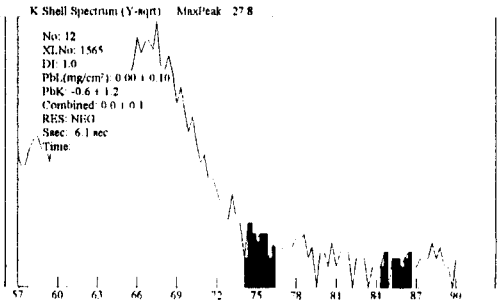


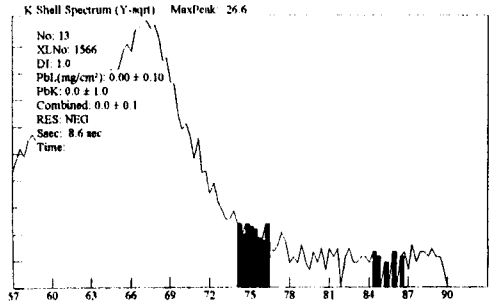


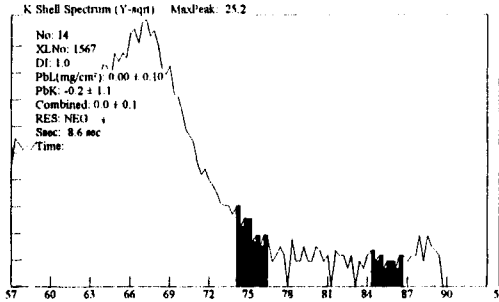


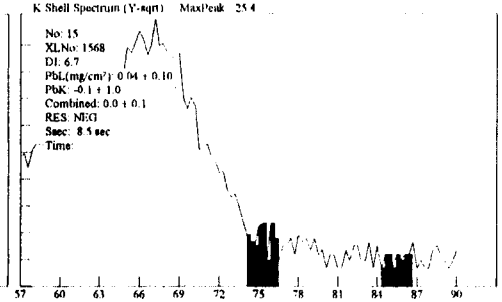


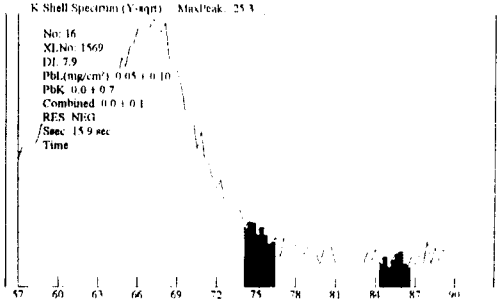












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Site: Ranges (NEG<INC<POS): Device PCS

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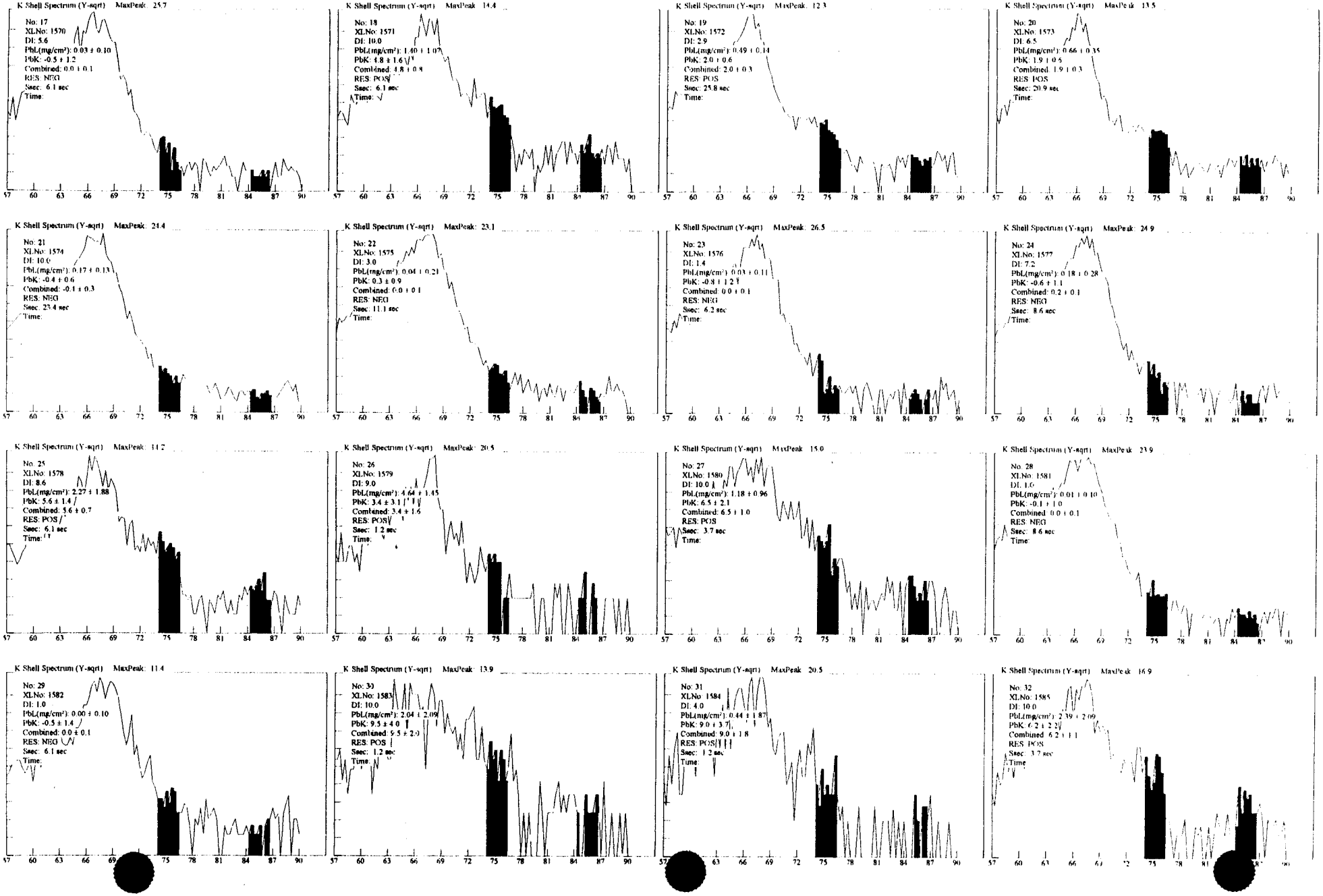

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Site: Ranges (NEG<INC<POS): Device PCS

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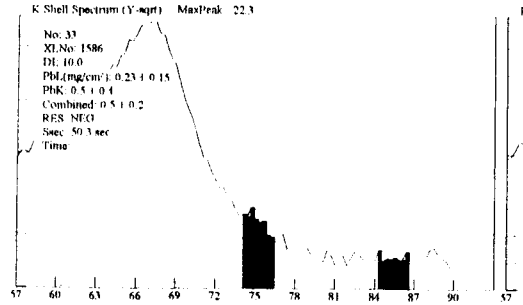

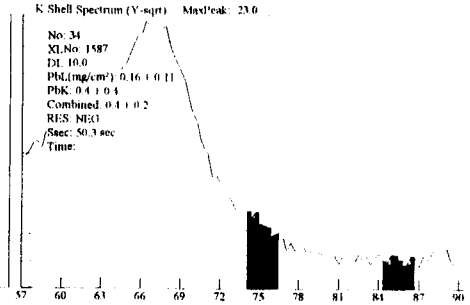

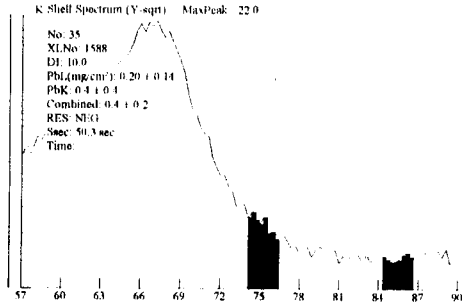

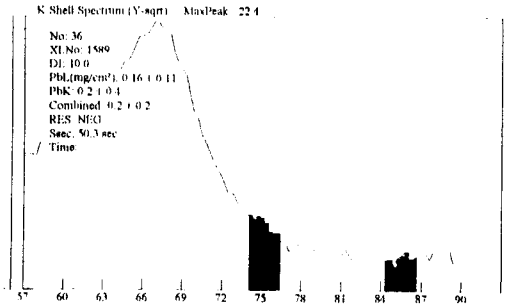

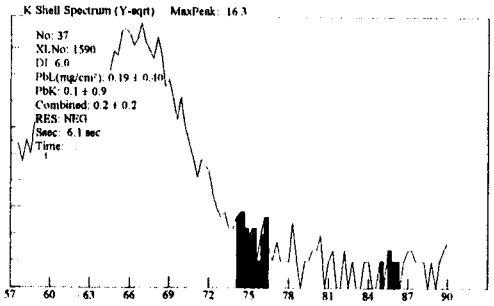

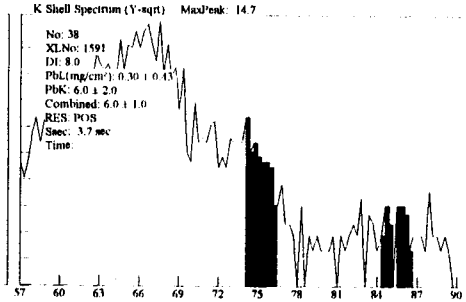

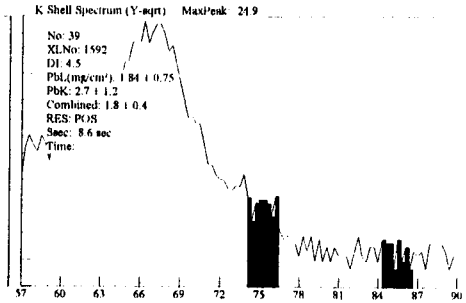

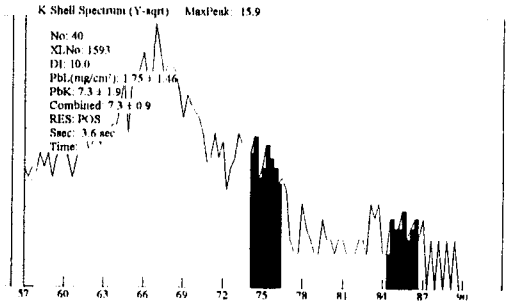

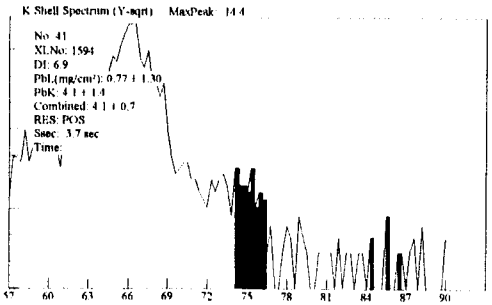

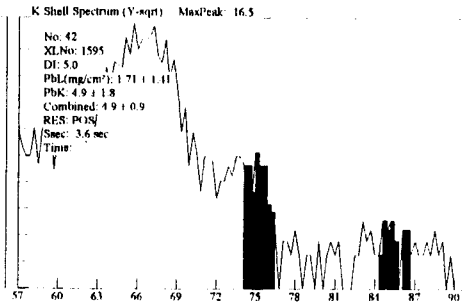

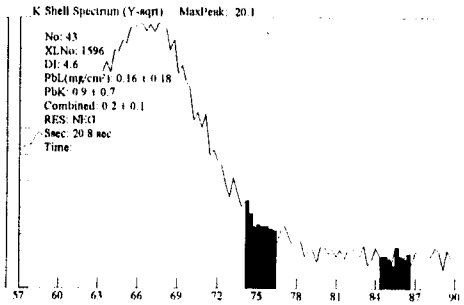

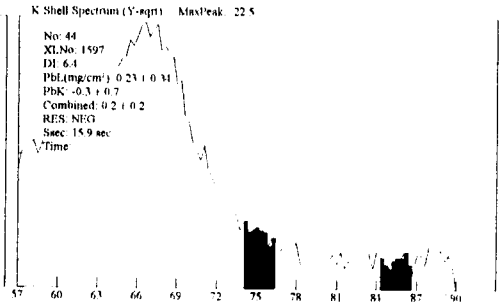

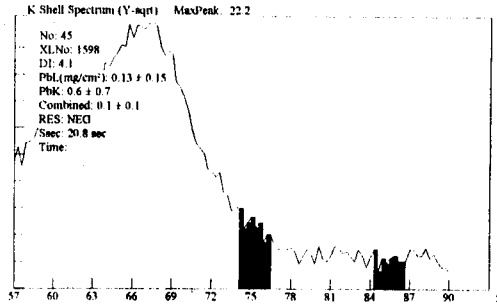

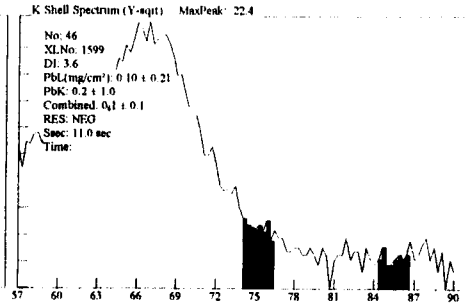

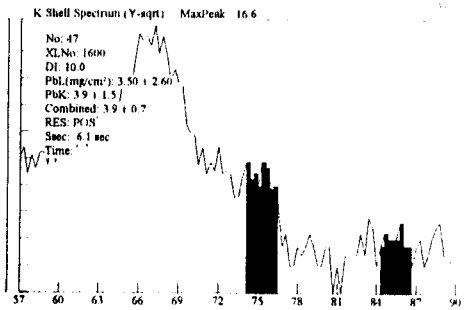

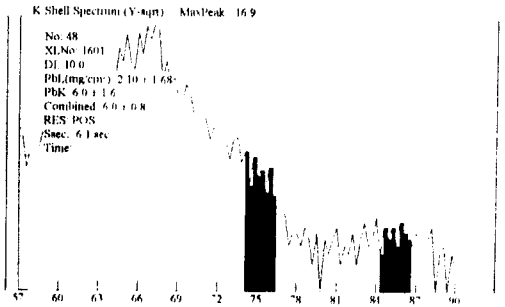

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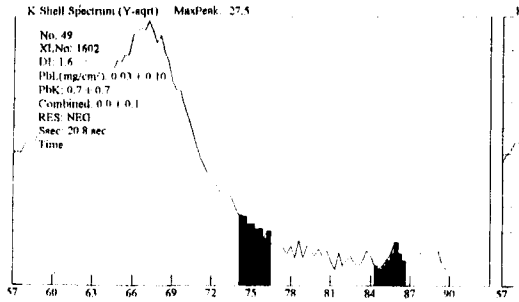

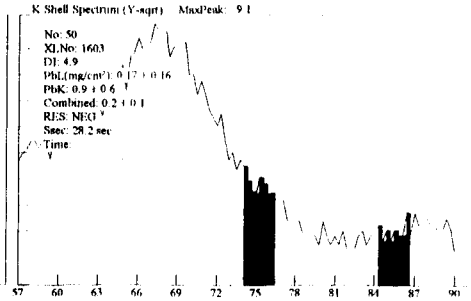

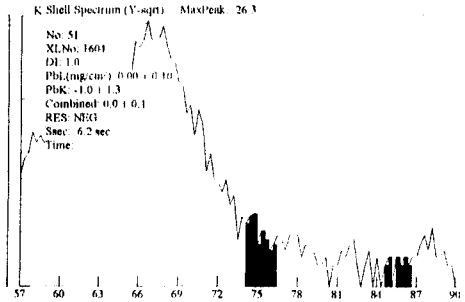

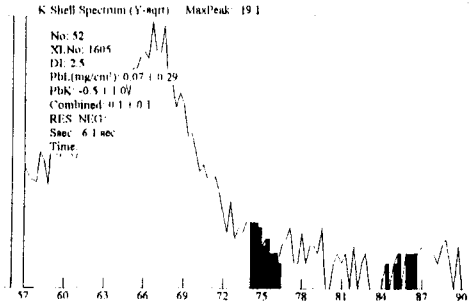

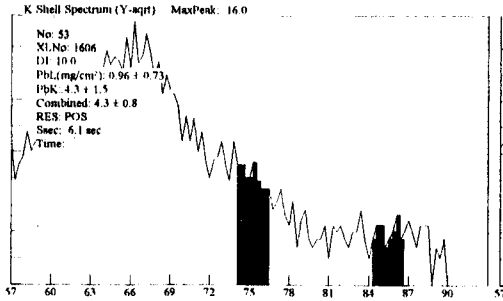

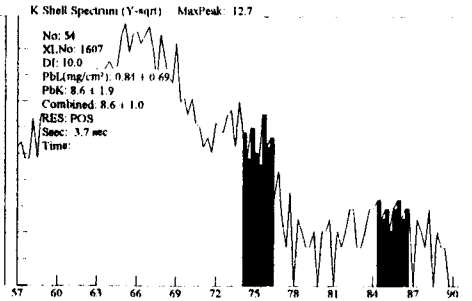

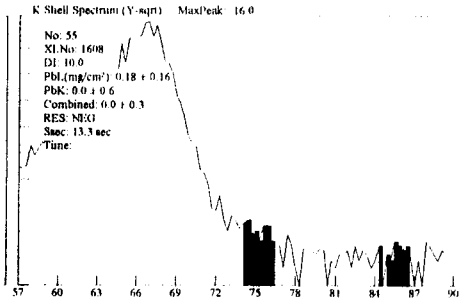

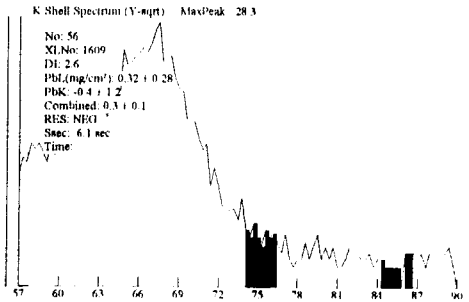

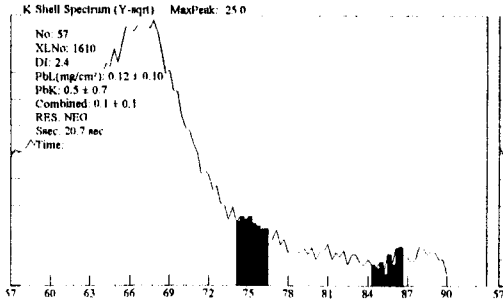

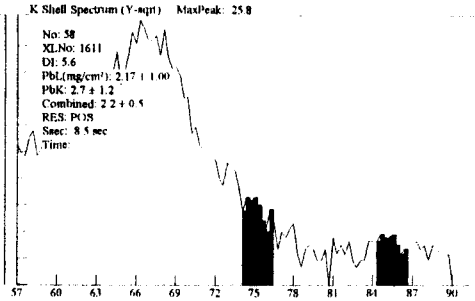

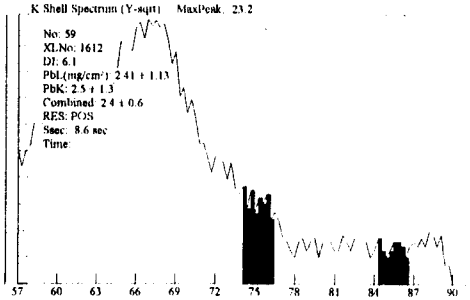

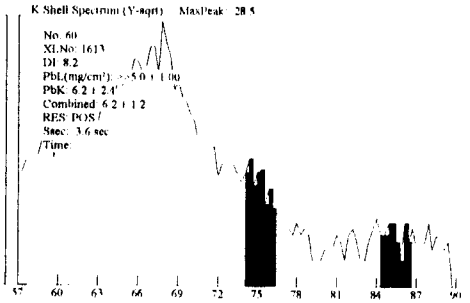

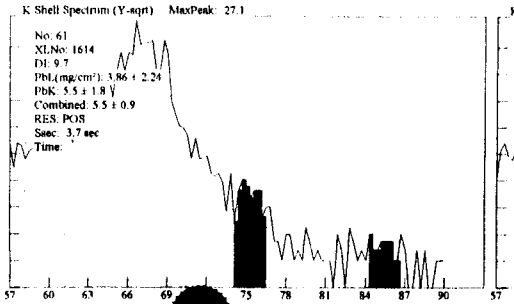

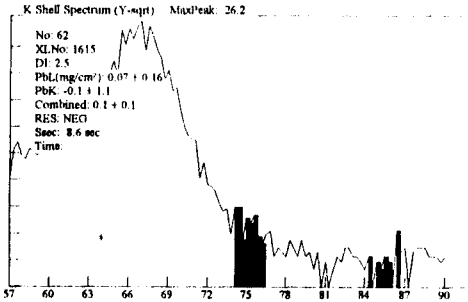

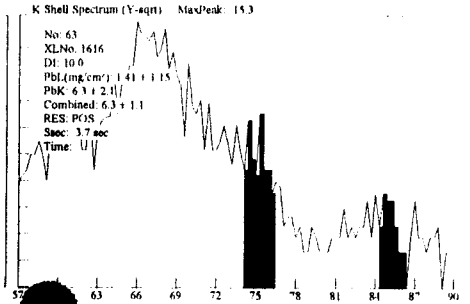

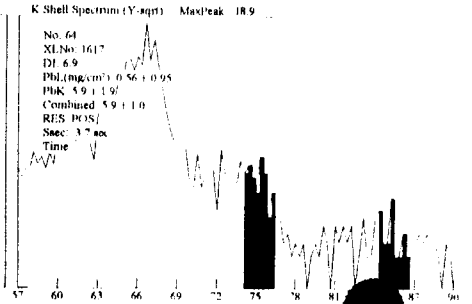

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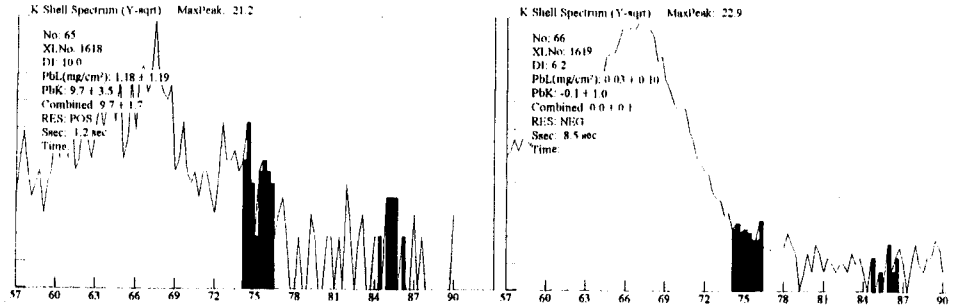

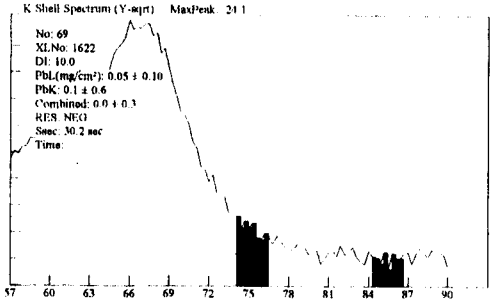

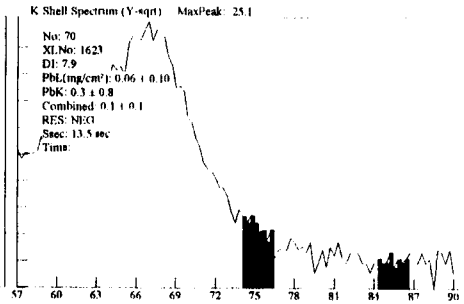

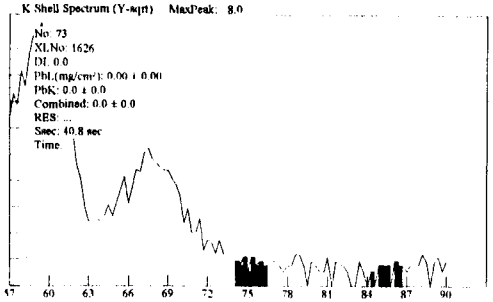

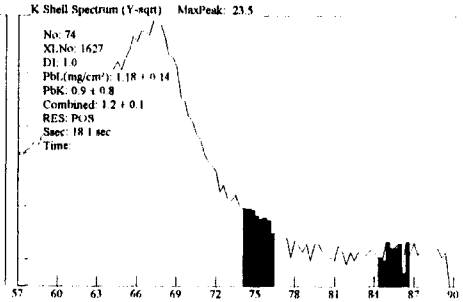

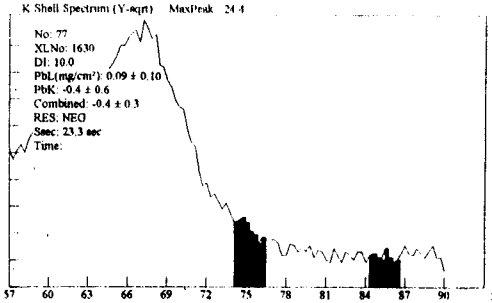

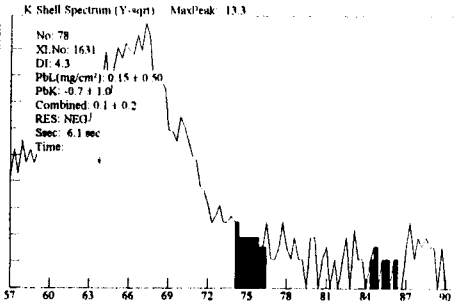

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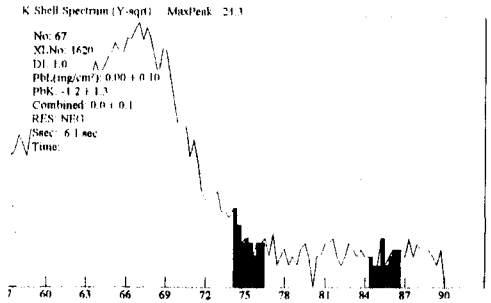

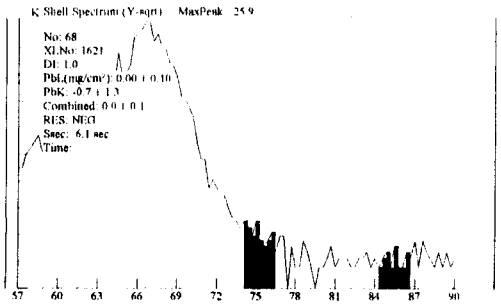

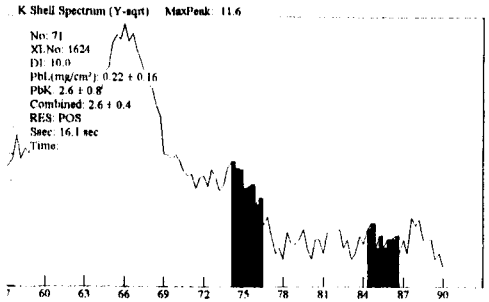

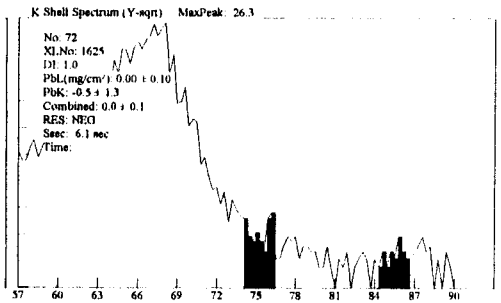

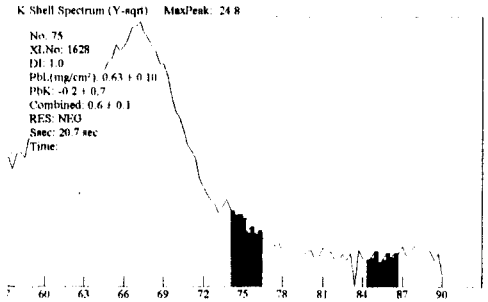

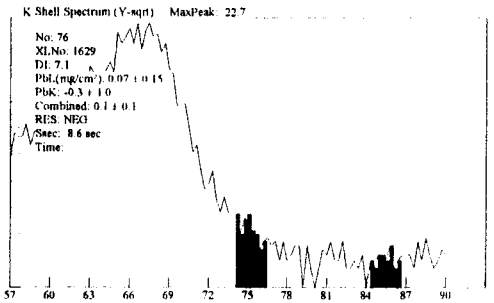

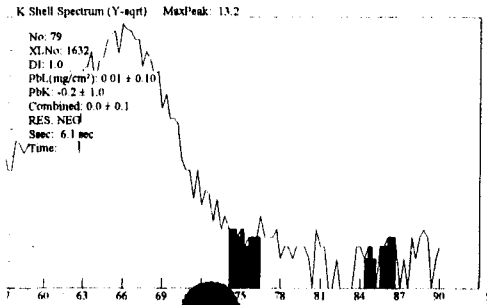

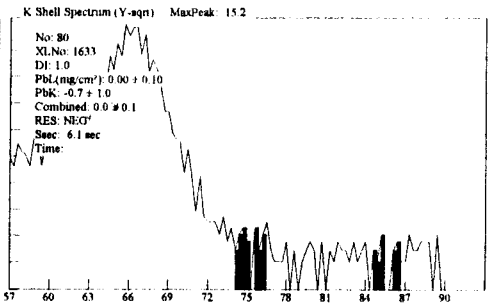

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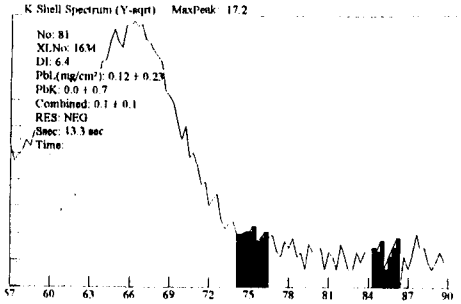

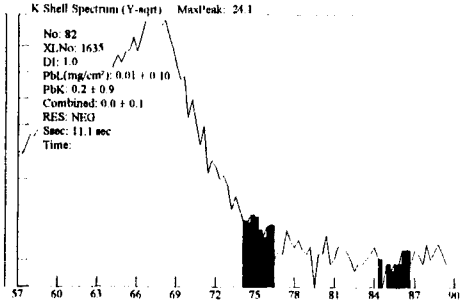

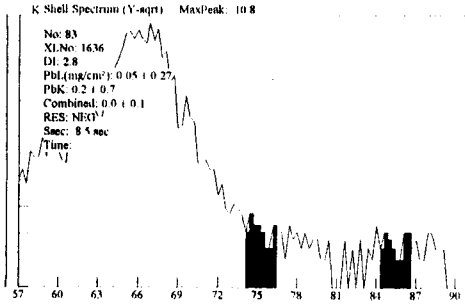

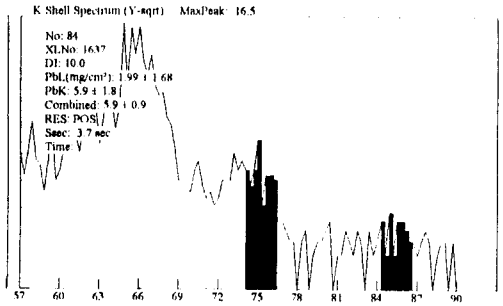

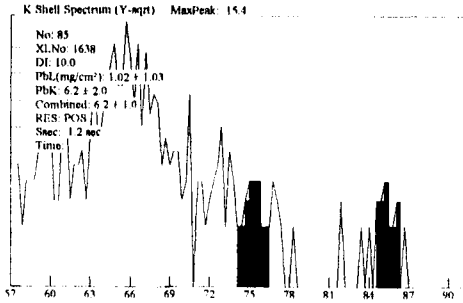

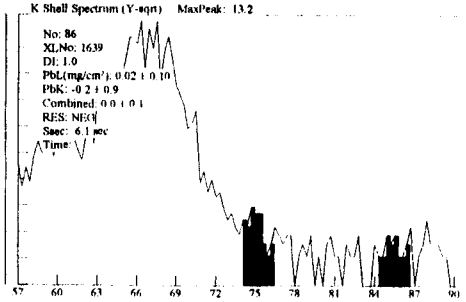

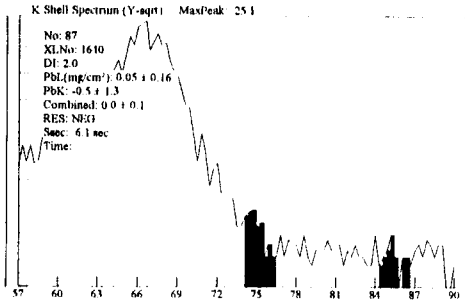

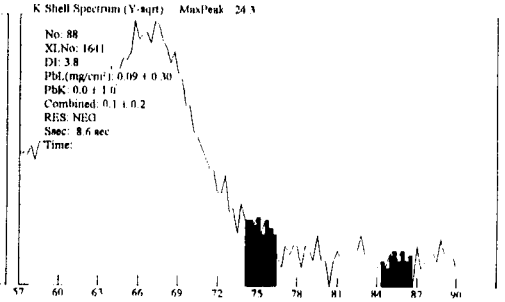

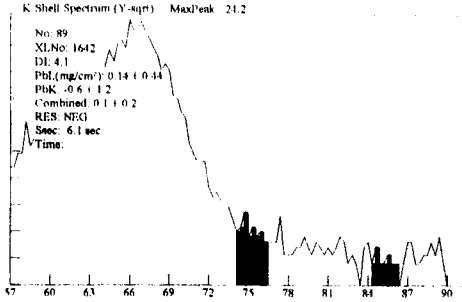

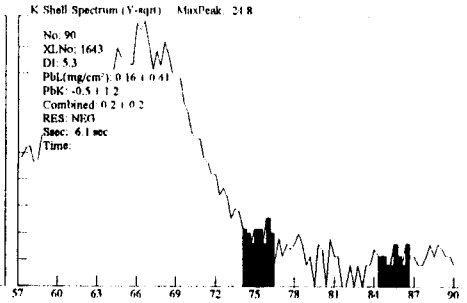

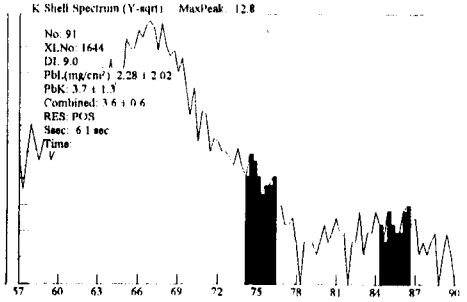

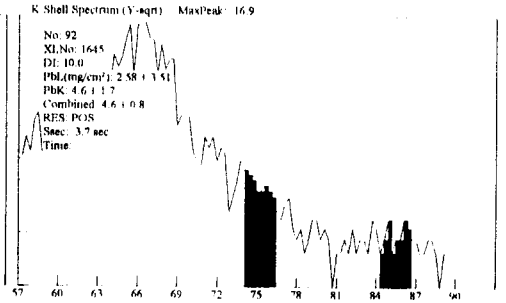

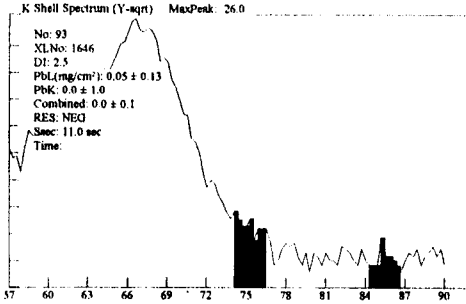

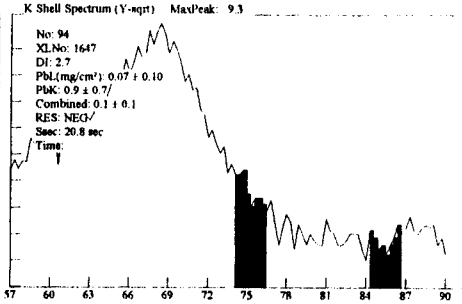

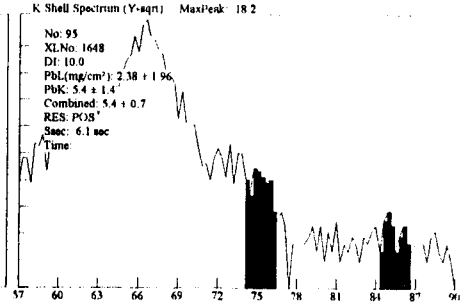

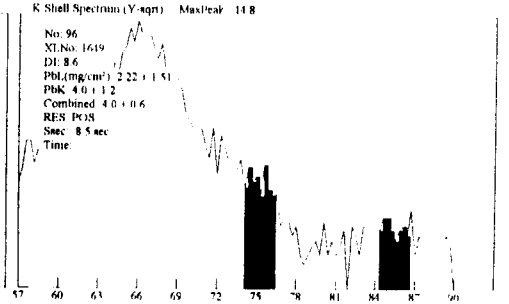

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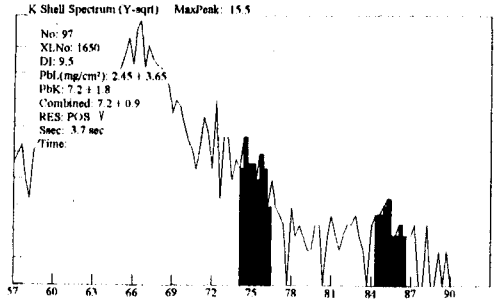

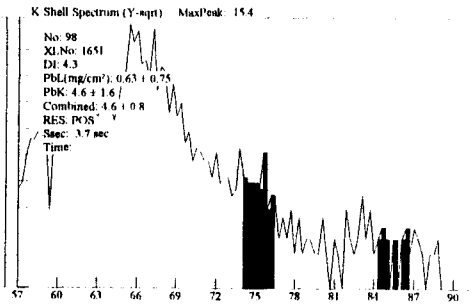

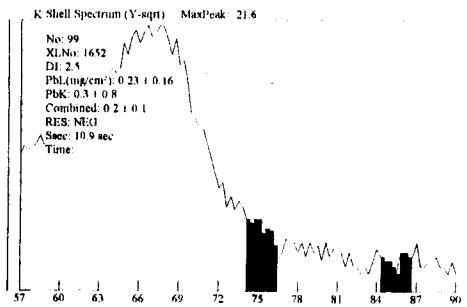

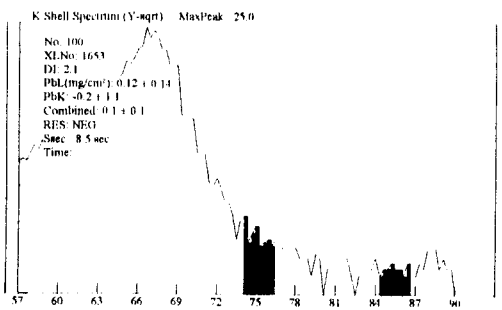

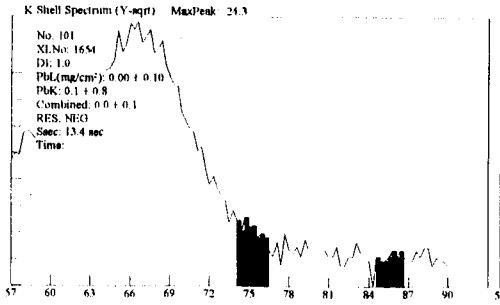

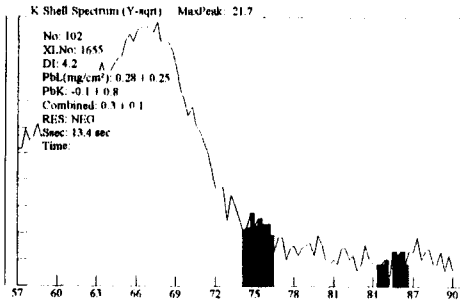

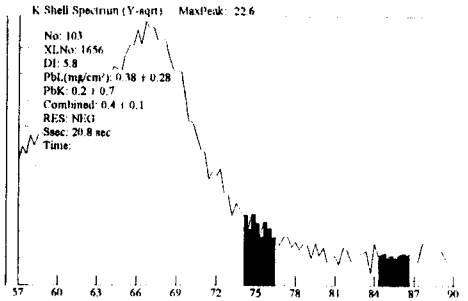

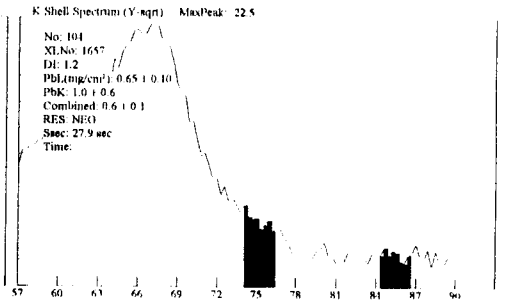

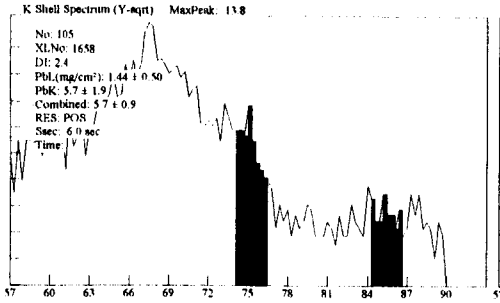

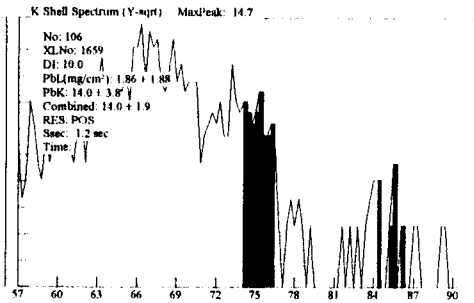

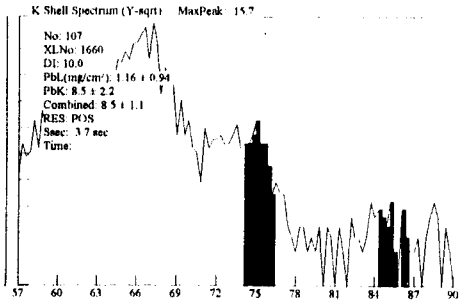

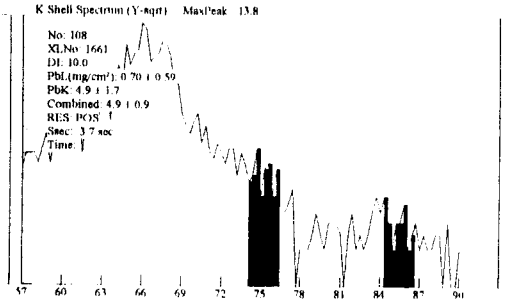

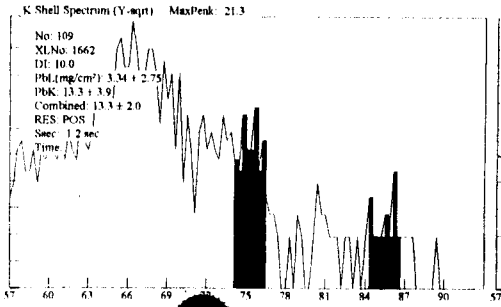

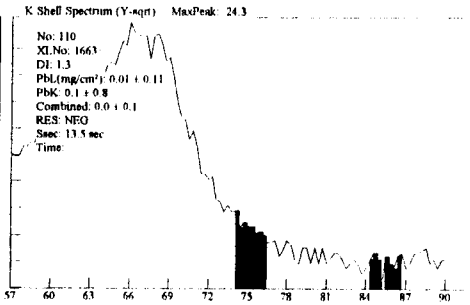

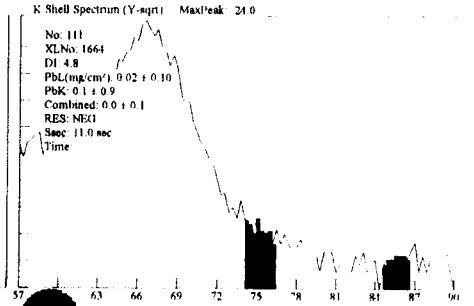

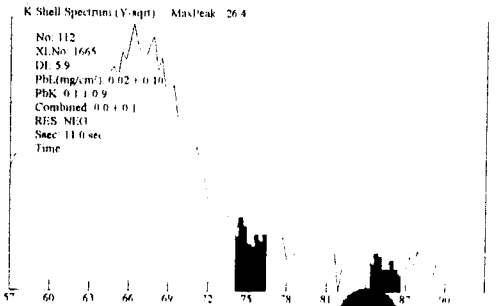

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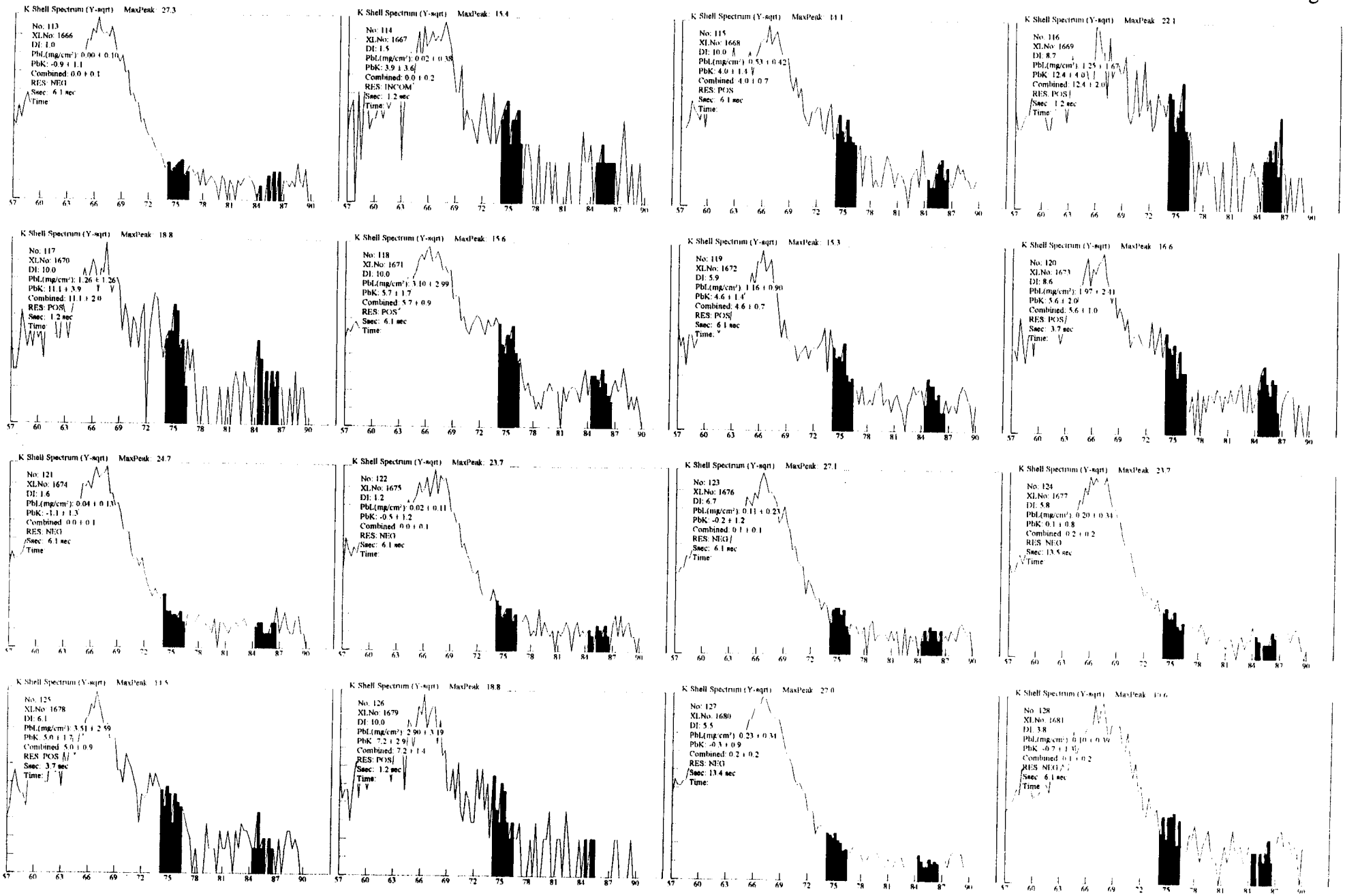

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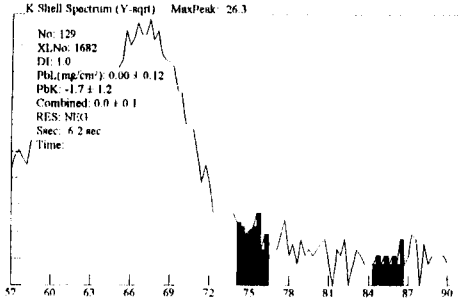

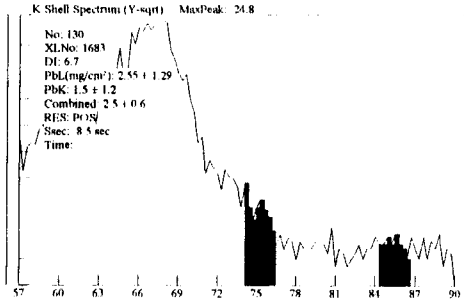

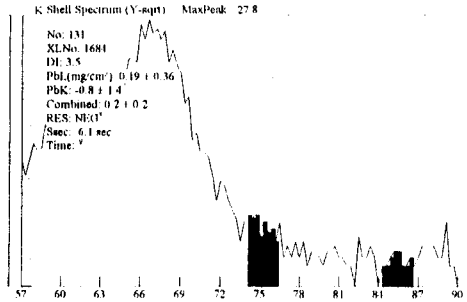

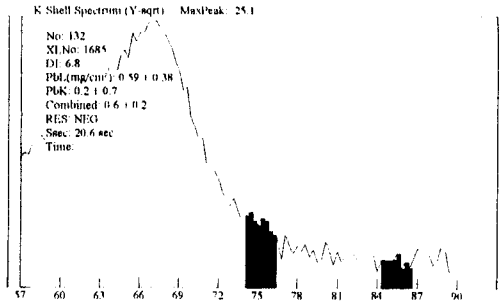

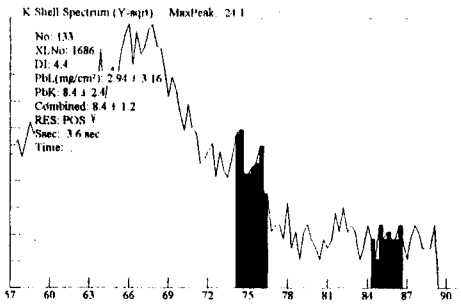

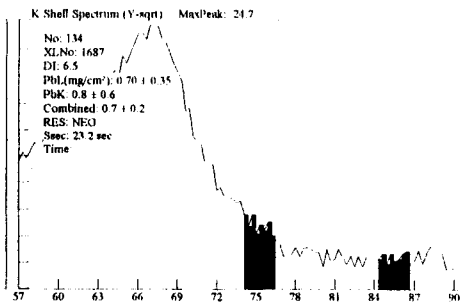

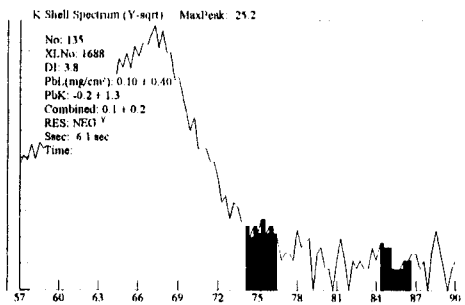

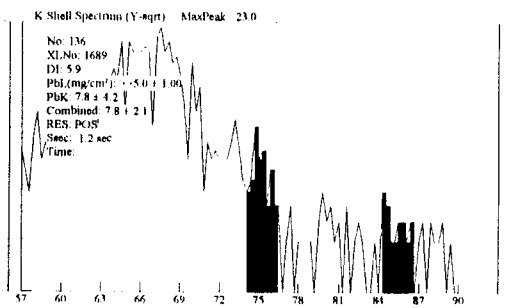

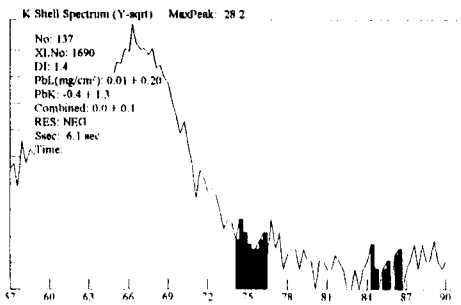

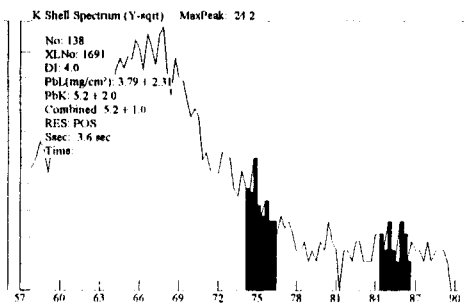

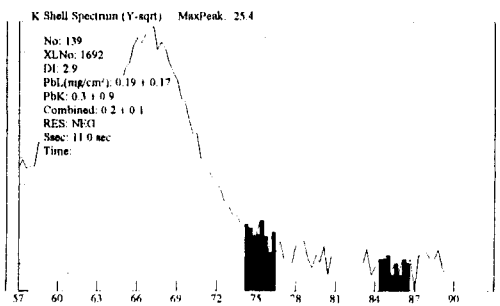

BUILDING 445

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 445

A lead-based paint inspection and risk assessment was conducted at Building 445, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

This building had an occupied unit and an unoccupied unit. It was marginally maintained and has missing building components, such as windows and doors. This building is separated into two apartments, namely 445A and 445B; however, this report will represent both units as one building.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 318 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Thirty-two (32) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. No paint chip samples were collected to confirm the lead concentration of any paint. The results of the XRF are summarized by building component in the following pages.

The presence of lead-based paint was found in Building 445. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

Unit 445A

1. Laundry Room Ceramic Baseboard
2. Laundry Room Ceramic Floor Tiles
3. Porch Storage Ceramic Floor Tiles
4. Kitchen Ceramic Wall Tiles
5. Living Room Ceramic Floor Tiles
6. Den Ceramic Baseboard
7. Den Ceramic Floor Tiles
8. Hallway Ceramic Floor Tiles
9. Room No. 1 Ceramic Baseboard
10. Room No. 1 Ceramic Floor Tiles
11. Bathroom Ceramic Floor Tiles
12. Bathroom Ceramic Wall Tiles
13. Room No. 2 Ceramic Baseboard
14. Room No. 2 Ceramic Floor Tiles
15. Exterior Walls
16. Exterior Closet Walls
17. Entrance Steps
18. Exterior Storage Room Wall

Unit 445B

1. Living Room Ceramic Floor Tiles
2. Den Wall
3. Den Ceramic Floor Tiles
4. Room No. 1 Ceramic Floor Tiles
5. Bathroom Ceramic Floor Tiles
6. Bathroom Ceramic Wall Tiles
7. Bathroom Tub
8. Room No. 2 Ceramic Floor Tiles
9. Kitchen Ceramic Wall Tiles
10. Porch Walls
11. Porch Storage Room Walls
12. Porch Ceramic Floor Tiles
13. Porch Ceramic Baseboard
14. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. There was no deteriorated paint within the units; thus, no dust wipe samples were conducted on the interior of the housing units. To evaluate the potential dust that may enter the housing unit, four (4) wipe samples were collected. These samples were entrance wipes. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. One (1) of the wipe samples (one entrance wipe near 445A) was reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. The soil sample was reported to contain an elevated lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Deteriorated lead-based paint on porch
3. Deteriorated lead-based paint in porch storage
4. Deteriorated exterior walls
5. Leaded dust in building back entrance
6. Lead-in-the-soil surrounding the housing unit

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in fair condition. The paint deterioration is limited to the exterior paint on the walls and porch, and selected areas within the house. There are many building components, which contain lead, such as the wall and floor tiles. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Dust levels were reported to be high on one of the entrance surfaces, and should be taken care of as soon as possible. DOD/EPA guidelines for dust hazards list the criterion level of 40 ug/sq. ft.
3. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust on the building's exterior.
4. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
5. The soil lead level is above 400 mg/kg for the surrounding bare soils in the roof dripline areas. It is recommend that immediate interim control measures be conducted to cover the bare soil, namely covering the bare soil with grass or other preventive substances.
6. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
7. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
8. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished. If the building unit(s) were going to be used for family housing again, then removal would be the greatest deterrent of possible liability issues arising in the near future.
9. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
10. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
11. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

BUILDING DATA

445A

DRAFT

revised 15Apr00 2000 HNS

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

Client Name: Department of the Navy	**Project Name: Stop 7$^{1/2}$ Naval Reservation**	
Sampling Method: NITON XRF 700 Series	**Job: USN 01**	**Date: March 31, 2000**

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1697	Calibration test				1	445A	pos.
PB-1698	Calibration test				1	445A	pos.
PB-1699	Calibration test				1	445A	pos.
PB-1704	Laundry wall baseboard	white/gray	A	ceramic	1	445A	pos.
PB-1705	Laundry FT 12" x 12"	white/gray	floor	ceramic	1	445A	pos.
PB-1716	Porch closet tile 12" x 12"	white/gray	floor	ceramic	1	445A	pos.
PB-1726	Kitchen wall tile 8" x 6"	gray	A	ceramic	1	445A	pos.
PB-1727	Kitchen wall tile 8" x 6"	gray	B	ceramic	1	445A	pos.
PB-1739	Living room FT 12"x 12"	white/gray	floor	ceramic	1	445A	pos.
PB-1751	Den FT 12" x 12"	white/gray	floor	ceramic	1	445A	pos.
PB-1752	Den baseboard 12" x 4"	white/gray	A	ceramic	1	445A	pos.
PB-1761	Hallway FT 12" x 12"	white/gray	floor	ceramic	1	445A	pos.
PB-1773	Room # 1 baseboard	white/gray	A	ceramic	1	445A	pos.
PB-1774	Room # 1 FT	white/gray	floor	ceramic	1	445A	pos.
PB-1787	Bathroom wall tile 6" x 6"	peach	C	ceramic	1	445A	pos.
PB-1788	Bathroom floor tile 8" x 8"	peach	floor	ceramic	1	445A	pos.
PB-1803	Room # 2 baseboard 12" x 4"	white/gray	C	ceramic	1	445A	pos.
PB-1804	Room # 2 FT 12" x12"	white/gray	floor	ceramic	1	445A	pos.
PB-1815	Calibration test				1	445A	pos.
PB-1817	Calibration test				1	445A	pos.
PB-1818	Calibration test				1	445A	pos.
PB-1819	Exterior wall	white	A	concrete	1	445A	pos.

445 A

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

445 A

Client Name: Department of the Navy	Project Name: Stop 7$^{1/2}$ Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1821	Exterior wall	off white	B	concrete	1	445A	pos.
PB-1822	Exterior wall	white	B	concrete	1	445A	pos.
PB-1824	Exterior wall	white	C	concrete	1	445A	pos.
PB-1825	Exterior wall	bone white	C	concrete	1	445A	pos.
PB-1827	Exterior wall	white	D	concrete	1	445A	pos.
PB-1831	Exterior closet wall	white	B	concrete	1	445A	pos.
PB-1832	Exterior closet wall	white	B	concrete	1	445A	pos.
PB-1833	Entrance step	blue	A	concrete	1	445A	pos.
PB-1844	Storage closet wall	dark gray	D	concrete	1	445A	pos.
PB-1850	Calibration test				1	445A	pos.
PB-1851	Calibration test				1	445A	pos.
PB-1852	Calibration test				1	445A	pos.

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1697	Calibration				1	445A	P	1.6
1698	✓				1	✓	P	1.4
1699	✓				1	✓	P	1.7
1700	porch Entrance ½ to bath Laundry room wall	white	A	concrete	1	✓	N	
01			B		1	✓	N	
1702			C		1	✓	N	
1703			D		1	✓	N	
1704	" " baseboard	white/gray	A	ceramic	✓	✓	P	8.5
1705	" FT 12x12 "	✓	floor	✓	✓	✓	P	6.2
1706	" fuse box "	gray	C	metal	✓	✓	N	
1707	" wall ½ to ~~bath~~ top	off white	A	concrete	✓	✓	N	
1708	✓		B	✓	✓	✓	N	
1709	✓		C	✓	✓	✓	N	
1710	✓		D	✓	✓	✓	N	

445A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1711	porch (laundry room closet	wood	B	wood	1	445A	N
1712	" closet jcb	white	"	wood	1	"	N
1713	head jamb	"	"	"	"	"	N
1714	closet porch wall,	white	C	conc	"	"	N
715	"	"	D	conc	"	"	N
1716	closet (porch) ceiling 12x12	gray/ white	1	conc	"	"	POS
1717	kitchen door ~~wall~~	wood	A	wood	"	"	N
1718	kitchen door jamb	wood	"	"	"	"	N
1719	" head	"	"	"	"	"	N
1720	kitchen wall	white ~~conc~~	A	conc	"	"	N
1721	"	"	B	conc	"	"	N
1722	"	"	C	"	"	"	N
1723	"	"	D	"	"	"	N
1724	kitchen cuenc tile wall 8"x6"	gray	D	conc	"	"	N

walls A+B inaccessible

6.8

1/2 below

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1725	kitchen ceramic 10x10 tile floor	white		conc.	1	445A	N	
1726	kitchen wall ceramic tile 8x6	gray	A	conc	"	"	Pos	1.3
1727	kitchen wall ceramic tile 8x6	gray	B	conc	"	"	Pos	2.4
1728	kitchen pantry door	wood	B	wood	"	"	N	
1729	kitchen pantry door jamb	white ~~wood~~	B	"	"	"	N	
1730	kitchen pantry door head	white	B	"	"	"	N	
1731	kitchen pantry wall	white	C	conc	"	"	N	walls A & B inaccessible
1732	kitchen pantry wall	white	D	conc	"	"	N	floor tile inaccessible
1733	living room wall	white	A	"	"	"	N	
1734	"	white	B	"	"	"	N	
1735	"	white	C	"	"	"	N	
1736	"	"	D	"	"	"	N	
1737	living room chair rail	gray	A	wood	"	"	N	
1738	living room baseboard	gray	C	wood	"	"	~~Pos~~	~~NEG~~ N

445 A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1739	living room floor ceramic tile 12X12	gray/white		conc	1	445A	Pos	7.2
1740	living room window casing 1	dark brown	C	metal	"	"	N	
1741	" rail 1	"	"	"	"	"	N	
1742	den wall	white	A	conc	1	"	N	
1743	"	"	B	"	"	"	N	
1744	"	"	C	"	/	/	N	
1745	~~"~~	~~wood~~	~~D~~	~~wood~~	~~/~~	~~"~~	~~Neg~~	uncomfortable position
1746	den wall	~~white~~	D	conc	"	"	N	
1747	den wall	white	D	wood	"	"	N	
1748	den wall	white	A	wood	"	"	N	
1749	den window 2 casing	dark brown	C	metal	"	"	N	
1750	den window 2 rail	"	C	"	"	"	N	
1751	den ceramic floor tile 12X12	gray/white		conc	"	"	Pos	4.6
1752	den ceramic baseboard 12x4	"	A	"	"	"	Pos	6.2

1743 behind is an enclosed window

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

945 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1753	den door 2	wood	A	wood	1	945 A	N
1754	den door jamb	"	"	"	"	"	N
1755	den door head	"	"	"	"	"	N
1756	hallway wall	white	A	conc	"	"	N
1757	"	white	B	"	"	"	N
1758	"	white	C	"	"	"	N
1759	"	white	D	"	"	"	N
1760	hallway wood	gray	B	conc	"	"	N
1761	hallway ceramic floor tile 12x12	gray/white		conc	"	"	P
1762	hallway door	wood	C	wood	"	"	N
1763	hallway door jamb	"	C	wood	"	"	N
1764	hallway door head	"	C	wood	"	"	N
1765	hallway chair rail	gray	B	wood	"	"	N
1766	room 1 wall	white	A	conc	"	"	N

4.9

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1767	room 1 wall	white	B	conc	1	445A	N	
1768	room 1 wall	"	C	conc	1	445A	N	
1769	"	"	D	conc	1	"	N	
1770	room 1 chair rail	gray	A	wood	"	"	N	
1771	room 1 window casing	dark brown	C	metal	"	"	N	
1772	room 1 window 1 rail	"	"	"	"	"	N	
1773	room 1 ceiling baseboard	gray/white	A	conc	"	"	POS	4.4
1774	room 1 vinyl tile floor	gray/white		conc	"	"	POS	8.2
1775	room 1 closet door jamb	white	A	wood	"	"	N	
1776	" head	"	"	"	"	"	N	
1777	room 1 closet wall	white	A	conc	"	"	N	
1778	"	"	B	conc	"	"	N	
1779	"	"	C	"	"	"	N	
1780	"	"	D	"	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.		
1781	room 1 closet floor	gray		conc	1	445A	N		
1782	room 1 wall	white	B	wood	"	"	N		
1783	bathroom wall	beige white	A	conc	"	"	N		
1784	"	beige white	B	conc	"	"	N		
1785	"	"	C	conc	"	"	N		
1786	"	"	D	conc	"	"	N		
1787	bathroom ceramic wall tile 6x6	pink	C	conc	"	"	POS	1.7	1/2 to H
1788	bathroom floor 8x8 ceramic tile	peach		conc	"	"	POS	1.6	
1789	bathroom tub	white	A	metal	"	"	N		
1790	bathroom ceramic sink	white	C	conc	"	"	N		
1791	bathroom ceramic toilet tank	white	C	"	"	"	N		
1792	bathroom ceramic toilet base	white	C	conc	"	"	N		
1793	bathroom window casing	dark brown	D	metal	"	"	N		
1794	bathroom window rail	"	"	"	"	"	N		

445A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1795	bathroom door	wood	B	wood	*	445A	N
1796	bath. door jamb	bone white	B	"	✓	✓	N
1797	" head	bone white	B	"	✓	✓	N
1798	room 2 wall	white	A	conc	✓	✓	N
1799	"	"	B	"	✓	✓	N
1800	"	"	C	"	✓	✓	N
1801	"	"	D	"	✓	✓	N
1802	room 2 breaker panel door	gray	B	metal	"	"	N
1803	room 2 ceramic baseboard 12x4	gray white	C	conc	"	"	POS
1804	room 2 ceramic floor tile 12x12	gray/white		conc	"	"	POS
1805	room 2 chair rail	gray	C	wood	"	✓	N
1806	room 2 window casing 1	dark brown	D	metal	"	"	N
1807	room 2 window ~~casing~~ rail 2	"	"	"	"	"	N
1808	room 2 closet door jamb	bone white	C	wood	"	"	N

4.5

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ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1809	room 2 door closet head	bone white	C	wood ~~[illegible]~~	1	445A	N	
1810	room 2 closet wall	white	A	conc	1	"	N	
1811	"	white	B	conc	1	"	N	
1812	"	"	C	conc	1	"	N	
1813	"	"	D	conc	1	"	N	
1814	room 2 closet floor	"	"	conc	"	"	N	
1815	Cal Ver.						POS	1.4
1816	cal ver						~~POS~~	NEG.
1817	Cal ver.						POS	1.2
1818	Cal Ver.						POS	1.7
1819	Ext wall	white	A	conc	1	445A	POS	6.9
1820	Ext wall trim	blue	A	con	"	"	N	
1821	Ext wall	off white	B	con	"	"	POS	5.9
1822	Ext wall	white	B	con	"	"	POS	3.9

445A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1823	Ext wall trim	blue	B	conc	1	445A	N	
1824	Ext wall	white	C	conc	"	"	POS	4.5
1825	Ext wall	bone white	C	conc	"	"	POS	5.6
1826	Ext wall trim	blue	C	conc	1	"	N	
1827	Ext wall	~~bone~~ white	D	conc	"	"	POS	4.0
1828	Ext wall trim	blue	D	conc	"	"	N	
1829	Ex closet wall D	white	~~A~~	conc	"	"	N	
1830	Ext closet wall exo, ceramic wall tile	"	~~A~~	conc	"	"	~~POS~~	N
1831	Ext closet wall	"	~~B~~	"	"	"	POS	6.6
1832	Ext closet wall	white	C				POS	4.6
1833	Entrance step	blue	A	conc	"	"	POS	2.4
1834	Entrance step raise	blue	A	conc	"	"	N	
1835	Electrical panels	gray	B	metal	"	"	N	
1836	Exterior closet side	dark brown	B	metal	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1837	storage closet door jamb	dark brown	B	metal	1	445 A	N	
1838	" nearest	dark brown	B	metal	1	"	N	
1839	storage closet wall	bone white	A	conc	1	"	N	
1840	"	bone white	B	conc	1	1	N	
1841	"	light green	C	conc	"	"	N	
1842	"	peach	C	conc	"	"	N	
1843	storage closet electric switchbox	blue	C	metal	"	"	N	
1844	storage closet wall	dark gray	D	conc	"	"	POS	1.2 1/2 to floor
1845	"	light green	D	conc	"	"	N	
1846	"	peach	D	"	"	"	N	
1847	storage closet wood "asbestos"	white	D	wood	"	"	NULL	unconfirmed position
1848	"	"	"	"	"	"	N	
1849	calibration						null	
1850	calibration							
1851							P	1.5
1852							P	1.7
							P	1.5

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

445 B

Client Name: Baker Environmental Company	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN 01	Date: March 28, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-244	Calibration test # 1				2	445B	pos.
PB-246	Calibration test # 3				2	445B	pos.
PB-247	Calibration test # 4				2	445B	pos.
PB-266	Living room CFT	white/gray		concrete	2	445B	pos.
PB-277	Den wall center area	white	A	concrete	2	445B	pos.
PB-280	Den wall center area	white	A	concrete	2	445B	pos.
PB-282	Den wall (over window)	white	A	concrete	2	445B	pos.
PB-285	Den wall right area	white	D	concrete	2	445B	pos.
PB-286	Den wall left area	white	D	concrete	2	445B	pos.
PB-287	Den CFT 12" x 12"	white/gray	floor	concrete	2	445B	pos.
PB-307	Room # 1 CFT	white/cream	floor	concrete	2	445B	pos.
PB-310	Room # 1 CFT	white/cream	floor	concrete	2	445B	pos.
PB-319	Bathroom CT 6" x 6" center to bottom	light pink	C	concrete	2	445B	pos.
PB-320	Bathroom CT 6" x 6" center to bottom	light pink	D	concrete	2	445B	pos.
PB-321	Bathroom CFT 6" x 6" center to bottom	light pink	A	concrete	2	445B	pos.
PB-322	Bathroom CFT 8" x 8"	pink	floor	concrete	2	445B	pos.
PB-327	Bathtub	white		metal	2	445B	pos.
PB-334	Room # 2 CFT 12" x 12"	white/cream	floor	concrete	2	445B	pos.
PB-348	Kitchen wall lower side (CFT)	light gray	A	concrete	2	445B	pos.
PB-349	Kitchen wall lower side (CFT)	light gray	B	concrete	2	445B	pos.
PB-350	Kitchen wall lower side (CFT)	light gray	C	concrete	2	445B	pos.
PB-352	Kitchen wall lower side (CFT)	light gray	D	concrete	2	445B	pos.

445B

BAKER ENVIRONMENTAL
LEAD INSPECTION
SAMPLING DATA SHEET

445B

Client Name: Baker Environmental Company	**Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities**	
Sampling Method: NITON XRF Serie 700	**Job: USN-01**	**Date: March 28, 2000**

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-358	Porch wall	white	A	concrete	2	445B	pos.
PB-360	Porch wall	white	B	concrete	2	445B	pos.
PB-362	Porch wall	white	D	concrete	2	445B	pos.
PB-365	Storage wall	white	A	concrete	2	445B	pos.
PB-366	Storage wall	white	B	concrete	2	445B	pos.
PB-368	Storage wall	white	D	concrete	2	445B	pos.
PB-370	Porch FT	white	floor	concrete	2	445B	pos.
PB-371	Porch Tile baseboard	white	floor	concrete	2	445B	pos.
PB-374	Exterior wall	white	A	concrete	2	445B	pos.
PB-376	Calibration test				2	445B	pos.
PB-377	Calibration test				2	445B	pos.
PB-393	Exterior wall	beige	B	concrete	2	445B	pos.
PB-394	Exterior wall	white	B	concrete	2	445B	pos.
PB-395	Exterior wall	white	C	concrete	2	445B	pos.
PB-396	Exterior wall	white	D	concrete	2	445B	pos.
PB-400	Exterior wall trim (corner area)	blue	D	concrete	2	445B	pos.

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD: XRF	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~ SUBST.	LEVEL	BLDG.	POS. / NEG.	
244	Calibration Test #1	—	—	—	—	445 B	Pos	1.6 ± 0.2
245	" Test #2	—	—	—	—	—	Neg	0.3 ± 0.1
246	" Test #3	—	—	—	—	—	Pos	(1.0 ± 0.1)
247	Cal " Test #4	—	—	—	—	—	Pos	1.0 ± 01
248	Stairway (Tread) Entrance	Gray	B	Concrete	1	445	Neg.	
249	Door entrance Stairway	Brown	B	Wood	1	445	Neg	
250	Stair way Entrance (Riser)	Gray	B	Conc.	2	"	Neg	
251	Door ~~Frame~~ (Jamb) Entran (Stair) (Jamb)	Brown	C	Wood	1	"	Neg	
252	Wall Stair way	White	~~A~~ C	Conc	1	"	Neg	
253	Wall Stair way	White	B	Con	1	"	Neg	
254	Wall Stair way	White	A	Conc	2	"	Neg	
255	Wall Stair way	With	D	Con	2	"	Neg	
256	Entrance Door Frame (Jamb)	~~Brown~~ White	~~A~~ B	Wood	2	"	Neg	
257	Entrance Door	Brown	A	Wood	2	"	Neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
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445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~ SUBST	LEVEL	BLDG.	POS. / NEG.
258	WALL (Living Room)	White	A	Concrete	2	445	Neg
259	WALL (Living Room)	"	B	Cont	2	445	Neg
260	WALL (Living Room)	"	C	Cmct	2	445	Neg
261	WALL (Living Room)	"	D	Cmct	2	445	Neg
262	Baseboard Living Room	Gray	A	Wood	2	"	Neg
263	Baseboard Living Room	"	B	Wood	2	"	Neg
264	Base Board Living Room	"	C	Wood	2	"	Neg
265	Base Board Living Room	"	D	Wood	2	"	Neg
266	Floor Living Room (Ceramic Tile)	White / Gray	A	Concrete	2	"	Pos.
267	Window (Living Room) Casing	Charcol	B	Metal	2	"	Neg
268	Window Living Room (Casing)	Charcol	C	metal	2	"	Neg
269	Window Living Room (Casing)	Charcol	C	metal	2	"	Neg
270	Window (Rail) Living Room	Charcol	B	Metal	2	"	Neg
271	Window (Rail) Living Room	Charcol	C	Metal	2	"	Neg

ENVIRONMENTAL ASSESSMENT CORPORATION
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445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
272	Window (Rail Living Room	Charcol	C	metal	2	445	Neg	
273	Window (Circular) Living Room	Gray	A	Metal	2	445	Neg	
274	Door Frame (Jam) DEN	Brown Light	A	Wood	2	445	Neg	
275	Door DEN	Brown Light	A	Wood	2	445	Neg	
276	Door Den	Brown Light	A	Wood	2	445	Neg	
277	Wall (DEN) Center area	White	A	Concrete	2	445	Pos.	1.10
278	Wall (Den) Left area	White	A	Concrete	2	445	Neg.	
279	Wall Den Right area	White	A	Concrete	2	445	Neg	
280	Wall Den center area	White	A	Concrete	2	445	~~Neg~~ Pos.	1.8
281	Wall DEN over The window	White	A	Concrete	2	445	error	
282	Wall Den over window	white	A	concrete	2	445	pos	1.10
283	Wall Den	white	B	concrete	2	445	neg	
284	Wall Den	white	C	concrete	2	445	neg	
285	Wall Den (right area)	white	D	concrete	2	445	pos	1.10

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~	LEVEL	BLDG.	POS. / NEG.	
286	wall Den (Left area)	white	D	Concrete	2	445	pos	1.8
287	Ceramic FT 12x12 Den	white/ gray	floor	ceramic	2	445	pos	3.6
288	window casing Den	charcol	B	metal	2	445	neg	
289	window rail Den	" "	B	" "	2	445	neg	
290	casing window #4 Den	" "	C	" "	" "	" "	neg	
291	window rail Den #4	" "	C	" "	" "	" "	neg	
292	window casing Den	" "	D	" "	" "	" "	neg	
293	window rail Den	" "	D	" "	" "	" "	neg	
294	room #1 Door frame (Jam	white	A	wood	" "	" "	neg	
295	room #1 Door	brown	A	wood	" "	" "	neg	
296	wall room #1	white	A	concrete	" "	" "	neg.	
297	wall room #1	white	B	concrete	" "	" "	neg	
298	" "	" "	C	" "	" "	" "	neg	
299	" "	" "	D	" "	" "	" "	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
300	floor closet room #1	gray		concrete	2	445	neg	
301	room #1 wallcloset	white	C	" "	" "	" "	neg	
302	" "	" "	D	" "	" "	" "	neg	
303	" "	" "	A	" "	" "	" "	neg	
304	" "	" "	B	" "	" "	" "	neg	
305	room #1 closet doorframe	white		" " wood	" "	" "	neg	
306	room #1 door closet	brown	A	wood	" "	" "	neg	
307	ceramic floortile	white/ cream	floor	ceramic	" "	" "	pos	4.5
308	wall Hallway	white	E D	concrete	" "	" "	neg	
309	" "	" "	B	" "	" "	" "	neg	
310	FT ceramic	white/ cream	floor	ceramic	" "	" "	pos	8.6
311	Baseboard	gray	B	concrete	" "	" "	neg	
312	" "	" "	D	" "	" "	" "	neg	
313	Bathroom	white	D	wood	" "	" "	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
314	Bathroom floor	Brown	D	wood	2	445	neg	
315	wall Bathroom	white	A	concrete	" "	" "	neg	
316	" "	" "	B	" "	" "	" "	neg	
317	" "	" "	C	" "	" "	" "	neg	
318	" "	" "	D	" "	" "	" "	neg	
319	Ceramic Tile 6"x6" Bathroom	Light ~~cream~~ pink	C	ceramic	" "	" "	pos	1.8
320	" "	" "	D	" "	" "	" "	pos	2.0
321	" "	" "	A	" "	" "	" "	pos	2.2
322	Ceramic Tile 8x8	pink	floor	ceramic	" "	" "	pos	1.3
323	~~Toilet~~ Toilet tank top	white		" "	" "	" "	neg	
324	Toilet tank	white		" "	" "	" "	neg	
325	Toilet base	white		" "	" "	" "	neg	
326	sink	white					neg	
327	Bathtub	white		metal	" "	" "	pos	8.7

center to bottom

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
328	Room #2 wall	white	A	concrete	2	445	neg
329	" "	" "	B	" "	" "	" "	neg
330	" "	" "	C	" "	" "	" "	neg
331	" "	" "	D	" "	" "	" "	neg
332	Room #2 window case #1	Brown	A	metal	" "	" "	neg
333	Room #2 window rail	" "	A	" "	" "	" "	neg
334	FT 12x12	white/ cream	floor	Ceramic	" "	" "	pos
335	Room #2 floor closet	gray	~~floor concrete~~ floor	concrete	" "	" "	neg
336	Room #2 closet wall	white	A	" "	" "	" "	neg
337	" "	" "	B	" "	" "	" "	neg
338	" "	" "	C	" "	" "	" "	neg
339	" "	" "	D	" "	" "	" "	neg
340	Room #2 closet door frame jam	white		wood	" "	" "	neg
341	Room #2 closet door	Brown		~~[illegible]~~ wood	" "	" "	neg

6.9

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
342	Room # 2 door frame	white		wood	2	445	neg	
343	Room # 2 door	brown		wood	2 " "	" "	neg	
344	Kitchen wall	white	A	concrete	" "	" "	neg	
345	" "	" "	B	" "	" "	" "	neg	
346	" "	" "	C	" "	" "	" "	neg	
347	" "	" "	D	" "	" "	" "	neg	
348	Kitchen wall lower side (ceramic tile)	light gray	A	ceramic	" "	" "	pos	3.0
349	" "	" "	B	" "	" "	" "	pos	1.0
350	" "		C	" "	" "	" "	pos	1.3
351	" "	" "	D	" "	" "	" "	neg	.9
352	" "	" "	D	" "	" "	" "	pos	1.0
353	Kitchen floor FT 10x10	light gray	floor	ceramic	" "	" "	neg	
354	Kitchen door frame Jam	white		wood	" "	" "	neg	
355	Kitchen door	Brown		wood	" "	" "	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
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SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
356	Kitchen window rail	Brown	A	metal	2	445	neg	
357	" " case	" "	A	" "	" "	" "	neg	
358	porch wall	white	A	concrete	" "	" "	pos	2.1
359	porch wall confirmation	" "	A	" "	" "	" "	neg	
360	porch wall	" "	B	" "	" "	" "	pos	1.9
361	" "	" "	C	" "	" "	" "	neg	
362	" "	" "	D	" "	" "	" "	pos	2.1
363	Storage room door frame	white		wood	" "	" "	neg	
364	" " door	Brown		wood	" "	" "	neg	
365	Storage wall	white	A	concrete	" "	" "	pos	3.1
366	" "	" "	B	" "	" "	" "	pos	5.6
367	" "		C	" "	" "	" "	neg	
368	" "		D	" "	" "	" "	pos	1.9
369	" " FT 10x10	cream	floor	ceramic	" "	" "	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

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SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
370	FT Porch	white	Floor	ceramic	2	445	pos	6.7
371	ceramic tile baseboard	" "	" "	" "	" "	" "	pos	9.9
372	Porch window case	Brown	C	metal	" "	" "	neg	
373	" " rail	" "	" "	" "	" "	" "	neg	
374	Exterior wall	white	A	concrete	" "	" "	pos	3.7
375	SKIP to calibrate							
376	calibration						pos	1.6
377	calib. verification						pos.	1.1
378	Calib verification						neg	.30
379	living room chair rail	gray	C	wood	2	445	neg	
380	room 1 chair rail	gray	B	wood	2	"	neg	
381	hallway chair rail	gray	D	wood	2	"	neg	
382	room 2 chair rail	"	A	wood	2	"	neg	
383	room 2 closet head jamb	white		wood	"		neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

CLIENT:	PROJECT NAME
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SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
384	hallway head jamb	white		wood	2	445	neg	
385	bathroom head jamb	"		"	"	"	neg	
386	room 1 ~~head jamb~~						Null	
387	room 1 head jamb	white		wood	"	"	neg	
388	den head jamb	wood		wood	1	4	neg	
389	storage room head jamb	white		wood	"	"	neg	
390	kitchen head jamb	white		wood	"	"	neg	
391	living room head jamb	white		wood	"	"	neg	
392	stairway head jamb	wood		wood	"	"	neg	
393	Exterior	beige	B	conc			pos.	5.4
394	Exterior	white	B	conc.			pos	7.8
395	Exterior	white	C	conc.		-	pos	2.7
396	Exterior	white	D	conc.			pos	4.7
397	ext trim	blue	A	conc	"		neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

445B

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SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
398	Exterior trim	blue	B	conc.	2	4	neg	
399	Exterior trim	blue	C	conc	2	445	neg	
400	(right wing) Exterior trim	blue	D	conc	2	445	pos.	2.7 possible white undercoat
401	Exterior trim	blue	D	conc	2	445	neg	

SAMPLING DATA

— Baker Environmental Clean
— Shop 7 1/2 Site — Project Name — US Navy
— Miguel A Oliveras

Shop 7 1/2 Site

EXTERIOR ENTRANCES DUST 9 Apr 00

[redacted]

Results ug/sq.ft.					
20.3	ED 445A 07	Ext Front entrance	Side A	445A
92.0	ED. 445A 08	Ext Back entrance	Side C	445A
8.1	ED. 445B 09	Int 2nd Fl Stairway Foyer	Side A	445B
17.9	ED. 445B. 10	Int 1st Fl Stairway Foyer	Side B	445B

[redacted]

All wipe samples measured 12"x12"

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Olivieras

Name of property owner US Navy

Property address 445 Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
S.445.01	Building perimeter		736.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

XRF DATA

445A

Serial #XL309-U12673701LY Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
1	**1693**	**2.10 ± 0.55**	**POS**	**1.3 ± 1.9**	**2.1 ± 0.3**	**1.3**	**3.6**	**3/31/100**	**19:18:41**		**1 of 1**
2	**1694**	**1.99 ± 0.66**	**POS**	**1.1 ± 1.5**	**2.0 ± 0.3**	**2.7**	**6.1**	**3/31/100**	**19:19:06**		**1 of 1**
3	**1695**	**1.40 ± 0.29**	**POS**	**0.8 ± 0.8**	**1.4 ± 0.1**	**2.8**	**18.3**	**3/31/100**	**19:19:28**		**1 of 1**
4	1696	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	4/1/100	12:32:43		1 of 1
5	**1697**	**1.62 ± 0.30**	**POS**	**0.7 ± 1.3**	**1.6 ± 0.2**	**1.0**	**5.9**	**4/1/100**	**12:33:13**		**1 of 1**
6	**1698**	**1.38 ± 0.27**	**POS**	**1.8 ± 1.1**	**1.4 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**12:33:43**		**1 of 1**
7	**1699**	**1.73 ± 0.33**	**POS**	**1.4 ± 1.2**	**1.7 ± 0.2**	**1.1**	**5.9**	**4/1/100**	**12:34:09**		**1 of 1**
8	1700	0.00 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.0	6.2	4/1/100	12:46:44		1 of 1
9	1701	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	12:47:03		1 of 1
10	1702	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	12:47:26		1 of 1
11	1703	0.03 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	6.5	8.6	4/1/100	12:47:44		1 of 1
12	**1704**	**>>5.0 ± 1.00**	**POS**	**8.5 ± 4.0**	**8.5 ± 2.0**	**1.4**	**1.1**	**4/1/100**	**12:48:14**		**1 of 1**
13	**1705**	**>>5.0 ± 1.00**	**POS**	**6.2 ± 4.2**	**6.2 ± 2.1**	**1.7**	**1.1**	**4/1/100**	**12:48:22**		**1 of 1**
14	1706	0.02 ± 0.15	NEG	-0.2 ± 1.0	0.0 ± 0.1	2.7	10.6	4/1/100	12:48:47		1 of 1
15	1707	0.06 ± 0.15	NEG	0.3 ± 0.8	0.1 ± 0.1	5.3	16.0	4/1/100	12:51:53		1 of 1
16	1708	0.19 ± 0.14	NEG	-0.1 ± 0.6	-0.1 ± 0.3	10.0	23.4	4/1/100	12:52:51		1 of 1
17	1709	0.05 ± 0.12	NEG	0.9 ± 0.7	0.1 ± 0.1	3.6	20.9	4/1/100	12:53:49		1 of 1
18	1710	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	12:54:51		1 of 1
19	1711	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	12:55:42		1 of 1
20	1712	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.1	4/1/100	12:56:06		1 of 1
21	1713	0.00 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	12:56:25		1 of 1
22	1714	0.05 ± 0.18	NEG	0.4 ± 0.9	0.0 ± 0.1	4.0	11.1	4/1/100	12:58:01		1 of 1
23	1715	0.01 ± 0.14	NEG	0.0 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	12:58:30		1 of 1
24	**1716**	**>>5.0 ± 1.00**	**POS**	**6.8 ± 3.7**	**6.8 ± 1.9**	**1.4**	**1.1**	**4/1/100**	**13:00:13**		**1 of 1**
25	1717	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.0	4/1/100	13:02:03		1 of 1
26	1718	0.00 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	8.6	4/1/100	13:02:24		1 of 1
27	1719	0.01 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	13:02:48		1 of 1
28	1720	0.08 ± 0.15	NEG	-0.1 ± 1.0	0.1 ± 0.1	7.1	8.6	4/1/100	13:03:21		1 of 1
29	1721	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	8.6	4/1/100	13:03:45		1 of 1
30	1722	0.04 ± 0.11	NEG	0.1 ± 0.7	0.0 ± 0.1	6.1	16.0	4/1/100	13:04:13		1 of 1
31	1723	0.01 ± 0.11	NEG	-0.6 ± 1.3	0.0 ± 0.1	1.5	6.2	4/1/100	13:04:52		1 of 1
32	1724	0.75 ± 0.18	NEG	0.8 ± 0.7	0.7 ± 0.1	2.5	22.3	4/1/100	13:05:12		1 of 1
33	1725	0.02 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	10.3	4/1/100	13:06:13		1 of 1

445A

Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
34	**1726**	**0.68 ± 0.12**	**POS**	**1.3 ± 0.5**	**1.3 ± 0.2**	**2.7**	**50.6**	**4/1/100**	**13:06:48**		**1 of 1**
35	**1727**	**0.80 ± 0.15**	**POS**	**2.4 ± 0.8**	**2.4 ± 0.4**	**1.9**	**22.2**	**4/1/100**	**13:09:16**		**1 of 1**
36	1728	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.3	6.1	4/1/100	13:10:26		1 of 1
37	1729	0.01 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	6.1	4/1/100	13:10:45		1 of 1
38	1730	0.02 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.0	4/1/100	13:11:08		1 of 1
39	1731	0.01 ± 0.13	NEG	0.3 ± 0.8	0.0 ± 0.1	1.8	13.5	4/1/100	13:11:34		1 of 1
40	1732	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.5	8.6	4/1/100	13:12:11		1 of 1
41	1733	0.00 ± 0.10	NEG	-1.2 ± 1.2	0.0 ± 0.1	1.0	6.2	4/1/100	13:13:11		1 of 1
42	1734	0.00 ± 0.10	NEG	-1.2 ± 1.3	0.0 ± 0.1	1.0	6.2	4/1/100	13:13:41		1 of 1
43	1735	0.02 ± 0.10	NEG	-1.1 ± 0.9	0.0 ± 0.1	5.9	11.1	4/1/100	13:14:03		1 of 1
44	1736	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	13:15:13		1 of 1
45	1737	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	4/1/100	13:15:42		1 of 1
46	1738	0.04 ± 0.20	NEG	-1.7 ± 1.4	0.0 ± 0.1	2.2	6.2	4/1/100	13:16:23		1 of 1
47	**1739**	**4.19 ± 1.91**	**POS**	**7.2 ± 2.4**	**7.2 ± 1.2**	**1.4**	**3.4**	**4/1/100**	**13:17:14**		**1 of 1**
48	1740	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	8.6	4/1/100	13:18:50		1 of 1
49	1741	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	8.6	4/1/100	13:19:15		1 of 1
50	1742	0.02 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	6.2	11.1	4/1/100	13:20:22		1 of 1
51	1743	0.02 ± 0.16	NEG	-0.5 ± 1.0	0.0 ± 0.1	2.2	8.6	4/1/100	13:20:53		1 of 1
52	1744	0.01 ± 0.10	NEG	0.0 ± 1.1	0.0 ± 0.1	3.1	6.2	4/1/100	13:21:18		1 of 1
53	1745	0.02 ± 0.36	INCOM	-0.7 ± 2.3	0.0 ± 0.2	1.2	1.2	4/1/100	13:21:52		1 of 1
54	1746	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	13:23:07		1 of 1
55	1747	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.2	6.2	4/1/100	13:23:38		1 of 1
56	1748	0.06 ± 0.10	NEG	0.0 ± 0.7	0.0 ± 0.3	10.0	16.0	4/1/100	13:24:08		1 of 1
57	1749	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	4/1/100	13:25:29		1 of 1
58	1750	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	13:26:20		1 of 1
59	**1751**	**4.59 ± 1.51**	**POS**	**7.5 ± 2.2**	**4.6 ± 0.8**	**1.5**	**3.4**	**4/1/100**	**13:26:42**		**1 of 1**
60	**1752**	**0.65 ± 0.55**	**POS**	**6.2 ± 2.4**	**6.2 ± 1.2**	**1.2**	**1.2**	**4/1/100**	**13:27:10**		**1 of 1**
61	1753	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	6.0	4/1/100	13:28:02		1 of 1
62	1754	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.0	4/1/100	13:28:20		1 of 1
63	1755	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.0	4/1/100	13:28:46		1 of 1
64	1756	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	11.1	4/1/100	13:32:59		1 of 1
65	1757	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	4/1/100	13:33:28		1 of 1
66	1758	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	13:33:57		1 of 1
67	1759	0.01 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	2.5	16.0	4/1/100	13:34:15		1 of 1

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
68	1760	0.06 ± 0.11	NEG	-0.2 ± 1.2	0.1 ± 0.1	1.6	6.2	4/1/100	13:34:55		1 of 1
69	**1761**	**>>5.0 ± 1.00**	**POS**	**4.9 ± 4.1**	**4.9 ± 2.0**	**1.5**	**1.1**	**4/1/100**	**13:35:12**		**1 of 1**
70	1762	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	6.0	4/1/100	13:35:33		1 of 1
71	1763	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	6.2	4/1/100	13:35:53		1 of 1
72	1764	0.00 ± 0.10	NEG	-0.6 ± 0.9	0.0 ± 0.1	1.0	6.2	4/1/100	13:36:13		1 of 1
73	1765	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	4/1/100	13:37:39		1 of 1
74	1766	0.00 ± 0.10	NEG	0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	13:38:11		1 of 1
75	1767	0.00 ± 0.11	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	13:38:48		1 of 1
76	1768	0.02 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	3.4	11.1	4/1/100	13:39:18		1 of 1
77	1769	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	13:39:53		1 of 1
78	1770	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	4/1/100	13:40:35		1 of 1
79	1771	0.02 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	4.5	8.6	4/1/100	13:41:32		1 of 1
80	1772	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.2	4/1/100	13:42:04		1 of 1
81	**1773**	**4.39 ± 1.70**	**POS**	**5.9 ± 2.6**	**4.4 ± 0.9**	**1.5**	**3.4**	**4/1/100**	**13:42:37**		**1 of 1**
82	**1774**	**>>5.0 ± 1.00**	**POS**	**8.2 ± 3.8**	**8.2 ± 1.9**	**1.5**	**1.1**	**4/1/100**	**13:42:50**		**1 of 1**
83	1775	0.01 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	13:43:23		1 of 1
84	1776	0.01 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.1	4/1/100	13:43:41		1 of 1
85	1777	0.04 ± 0.10	NEG	-0.1 ± 0.7	0.0 ± 0.1	7.8	16.0	4/1/100	13:44:13		1 of 1
86	1778	0.01 ± 0.14	NEG	-0.9 ± 1.2	0.0 ± 0.1	1.7	6.2	4/1/100	13:44:58		1 of 1
87	1779	0.01 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	2.7	8.6	4/1/100	13:45:17		1 of 1
88	1780	0.05 ± 0.11	NEG	0.4 ± 0.6	0.1 ± 0.1	6.5	18.5	4/1/100	13:45:49		1 of 1
89	1781	0.00 ± 0.12	NEG	-0.3 ± 1.2	0.0 ± 0.1	1.0	6.2	4/1/100	13:46:59		1 of 1
90	1782	0.00 ± 0.10	NEG	0.2 ± 1.0	0.0 ± 0.1	1.0	6.2	4/1/100	13:48:55		1 of 1
91	1783	0.01 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.5	13.5	4/1/100	13:49:55		1 of 1
92	1784	0.00 ± 0.10	NEG	-1.2 ± 1.3	0.0 ± 0.1	1.0	6.1	4/1/100	13:50:31		1 of 1
93	1785	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	18.4	4/1/100	13:50:49		1 of 1
94	1786	0.00 ± 0.10	NEG	-1.3 ± 1.3	0.0 ± 0.1	1.0	6.2	4/1/100	13:51:34		1 of 1
95	**1787**	**1.74 ± 0.41**	**POS**	**1.4 ± 1.5**	**1.7 ± 0.2**	**1.5**	**5.9**	**4/1/100**	**13:51:58**		**1 of 1**
96	**1788**	**1.55 ± 0.42**	**POS**	**3.2 ± 1.4**	**1.6 ± 0.2**	**1.7**	**5.8**	**4/1/100**	**13:52:19**		**1 of 1**
97	1789	0.05 ± 0.37	NEG	-0.4 ± 1.2	0.0 ± 0.2	2.5	8.0	4/1/100	13:53:01		1 of 1
98	1790	0.00 ± 0.13	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	17.7	4/1/100	13:53:46		1 of 1
99	1791	0.01 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	13.0	4/1/100	13:54:42		1 of 1
100	1792	0.01 ± 0.11	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	15.2	4/1/100	13:55:19		1 of 1
101	1793	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.5	6.2	4/1/100	13:57:26		1 of 1

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
102	1794	0.00 ± 0.10	NEG	-0.8 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	13:57:45		1 of 1
103	1795	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	13:58:10		1 of 1
104	1796	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	13:58:29		1 of 1
105	1797	0.01 ± 0.10	NEG	-0.3 ± 0.8	0.0 ± 0.1	1.0	6.1	4/1/100	13:58:46		1 of 1
106	1798	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	16.0	4/1/100	13:59:46		1 of 1
107	1799	0.00 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.0	6.2	4/1/100	14:00:28		1 of 1
108	1800	0.00 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.3	6.2	4/1/100	14:00:48		1 of 1
109	1801	0.01 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	2.1	6.2	4/1/100	14:01:29		1 of 1
110	1802	0.05 ± 0.24	NEG	-0.7 ± 1.4	0.0 ± 0.1	3.5	5.9	4/1/100	14:02:03		1 of 1
111	**1803**	**4.50 ± 1.59**	**POS**	**4.4 ± 4.2**	**4.5 ± 0.8**	**1.5**	**1.1**	**4/1/100**	**14:02:30**		**1 of 1**
112	**1804**	**3.43 ± 2.66**	**POS**	**10.3 ± 3.6**	**10.3 ± 1.8**	**1.3**	**1.1**	**4/1/100**	**14:02:37**		**1 of 1**
113	1805	0.00 ± 0.10	NEG	-1.2 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	14:03:14		1 of 1
114	1806	0.01 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.4	8.6	4/1/100	14:03:53		1 of 1
115	1807	0.05 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	7.8	6.2	4/1/100	14:04:17		1 of 1
116	1808	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	14:04:47		1 of 1
117	1809	0.01 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	6.0	4/1/100	14:05:06		1 of 1
118	1810	0.03 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	5.7	16.0	4/1/100	14:05:33		1 of 1
119	1811	0.04 ± 0.11	NEG	0.1 ± 0.9	0.0 ± 0.1	5.8	11.1	4/1/100	14:06:19		1 of 1
120	1812	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.0	6.2	4/1/100	14:07:23		1 of 1
121	1813	0.00 ± 0.10	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.4	6.2	4/1/100	14:08:30		1 of 1
122	1814	0.07 ± 0.13	NEG	0.4 ± 0.8	0.1 ± 0.1	7.5	11.1	4/1/100	14:08:58		1 of 1
123	**1815**	**1.43 ± 0.28**	**POS**	**0.9 ± 1.3**	**1.4 ± 0.1**	**1.1**	**6.0**	**4/1/100**	**14:14:06**		**1 of 1**
124	1816	0.07 ± 0.10	NEG	0.6 ± 0.6	0.1 ± 0.1	1.2	18.5	4/1/100	14:14:25		1 of 1
125	**1817**	**1.23 ± 0.25**	**POS**	**1.5 ± 1.4**	**1.2 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**14:16:05**		**1 of 1**
126	**1818**	**1.72 ± 0.32**	**POS**	**1.3 ± 1.3**	**1.7 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**14:16:29**		**1 of 1**
127	**1819**	**1.48 ± 1.22**	**POS**	**6.9 ± 2.1**	**6.9 ± 1.0**	**10.0**	**3.7**	**4/1/100**	**14:23:49**		**1 of 1**
128	1820	0.04 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.6	10.9	4/1/100	14:25:17		1 of 1
129	**1821**	**3.71 ± 2.39**	**POS**	**5.9 ± 2.1**	**5.9 ± 1.1**	**10.0**	**3.6**	**4/1/100**	**14:26:07**		**1 of 1**
130	**1822**	**3.23 ± 2.87**	**POS**	**3.9 ± 1.4**	**3.9 ± 0.7**	**10.0**	**8.5**	**4/1/100**	**14:26:20**		**1 of 1**
131	1823	0.08 ± 0.31	NEG	-0.2 ± 1.1	0.1 ± 0.2	3.8	6.1	4/1/100	14:26:59		1 of 1
132	**1824**	**4.52 ± 1.58**	**POS**	**4.4 ± 2.3**	**4.5 ± 0.8**	**5.9**	**3.6**	**4/1/100**	**14:27:47**		**1 of 1**
133	**1825**	**>>5.0 ± 1.00**	**POS**	**5.6 ± 3.2**	**5.6 ± 1.6**	**10.0**	**1.2**	**4/1/100**	**14:28:12**		**1 of 1**
134	1826	0.55 ± 0.28	NEG	0.7 ± 0.7	0.6 ± 0.1	5.0	20.6	4/1/100	14:28:33		1 of 1
135	**1827**	**3.52 ± 2.58**	**POS**	**4.0 ± 1.4**	**4.0 ± 0.7**	**10.0**	**6.1**	**4/1/100**	**14:30:11**		**1 of 1**

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
136	1828	0.25 ± 0.19	NEG	0.7 ± 0.7	0.3 ± 0.1	4.3	20.6	4/1/100	14:31:08		1 of 1
137	1829	0.00 ± 0.10	NEG	-0.6 ± 1.3	0.0 ± 0.1	1.0	6.1	4/1/100	14:32:37		1 of 1
138	1830	0.01 ± 0.14	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.0	5.8	4/1/100	14:33:06		1 of 1
139	**1831**	**>>5.0 ± 1.00**	**POS**	**6.0 ± 3.7**	**6.0 ± 1.9**	**10.0**	**1.2**	**4/1/100**	**14:33:24**		**1 of 1**
140	**1832**	**0.80 ± 0.61**	**POS**	**4.6 ± 1.6**	**4.6 ± 0.8**	**10.0**	**6.1**	**4/1/100**	**14:33:37**		**1 of 1**
141	**1833**	**2.39 ± 0.60**	**POS**	**2.1 ± 1.4**	**2.4 ± 0.3**	**2.0**	**6.0**	**4/1/100**	**14:36:18**		**1 of 1**
142	1834	0.39 ± 0.11	NEG	0.4 ± 0.7	0.4 ± 0.1	1.8	18.3	4/1/100	14:36:50		1 of 1
143	1835	0.05 ± 0.10	NEG	-0.1 ± 0.7	0.1 ± 0.1	5.9	26.3	4/1/100	14:37:52		1 of 1
144	1836	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.2	4/1/100	14:39:08		1 of 1
145	1837	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.5	6.2	4/1/100	14:39:27		1 of 1
146	1838	0.00 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	8.7	4/1/100	14:39:46		1 of 1
147	1839	0.14 ± 0.10	NEG	0.4 ± 0.7	0.1 ± 0.1	1.4	15.7	4/1/100	14:40:26		1 of 1
148	1840	0.16 ± 0.14	NEG	-1.2 ± 1.3	0.2 ± 0.1	1.5	6.0	4/1/100	14:41:07		1 of 1
149	1841	0.08 ± 0.10	NEG	-0.2 ± 0.9	0.1 ± 0.1	1.2	10.9	4/1/100	14:42:07		1 of 1
150	1842	0.04 ± 0.10	NEG	-0.8 ± 1.2	0.0 ± 0.1	6.0	6.0	4/1/100	14:42:36		1 of 1
151	1843	0.91 ± 0.14	NEG	0.5 ± 0.8	0.9 ± 0.1	1.4	20.4	4/1/100	14:43:09		1 of 1
152	**1844**	**1.16 ± 0.20**	**POS**	**1.8 ± 1.0**	**1.2 ± 0.1**	**1.2**	**10.7**	**4/1/100**	**14:44:32**		**1 of 1**
153	1845	0.16 ± 0.14	NEG	-1.4 ± 1.4	0.2 ± 0.1	1.5	6.0	4/1/100	14:45:04		1 of 1
154	1846	0.01 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	3.4	10.9	4/1/100	14:45:21		1 of 1
155	1847	0.02 ± 0.10	INCOM	0.6 ± 1.4	0.0 ± 0.1	1.0	5.9	4/1/100	14:45:51		1 of 1
156	1848	0.01 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.0	4/1/100	14:46:40		1 of 1
157	1849	0.15 ± 0.10	INCOM	0.2 ± 1.3	0.1 ± 0.1	1.0	3.7	4/1/100	14:50:14		1 of 1
158	**1850**	**1.50 ± 0.21**	**POS**	**1.8 ± 1.4**	**1.5 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**14:51:13**		**1 of 1**
159	**1851**	**1.72 ± 0.32**	**POS**	**2.2 ± 1.2**	**1.7 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**14:51:33**		**1 of 1**
160	**1852**	**1.54 ± 0.27**	**POS**	**-0.1 ± 1.4**	**1.5 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**14:51:51**		**1 of 1**

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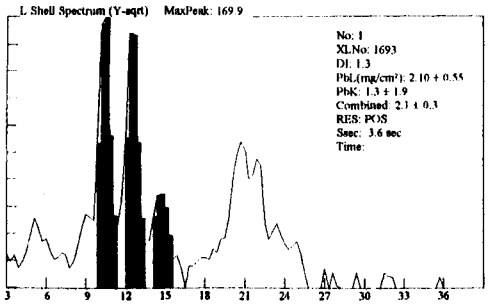
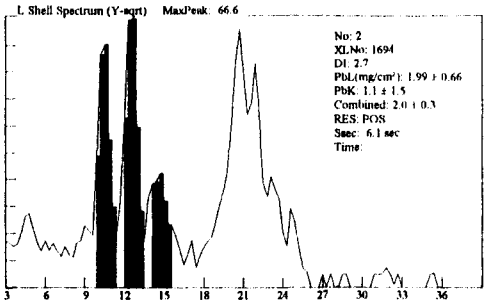
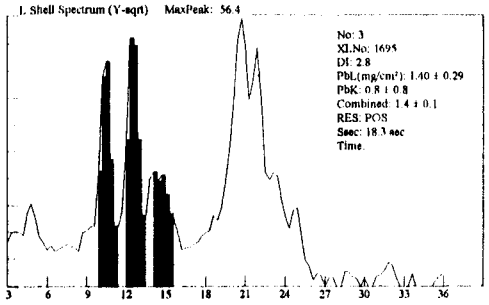
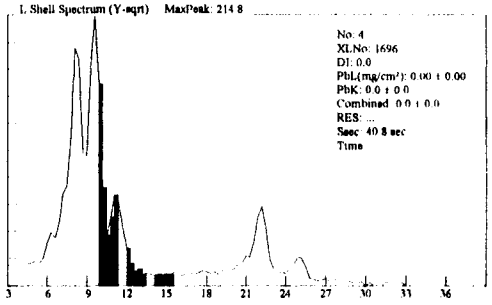
Site: Ranges (NEG<INC<POS): Device PCS

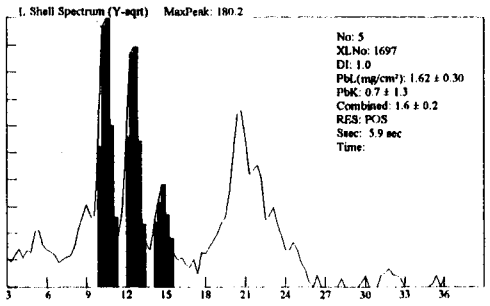
Date: 3/31/100 Paint Page 1

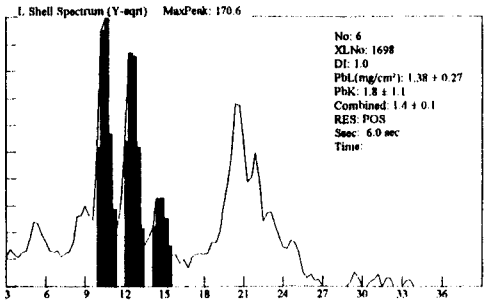


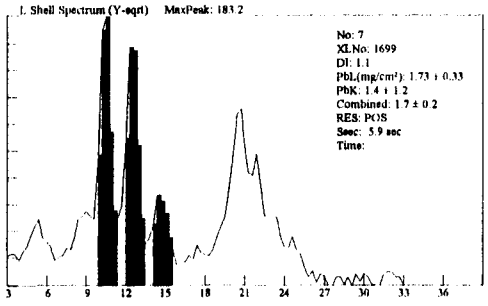


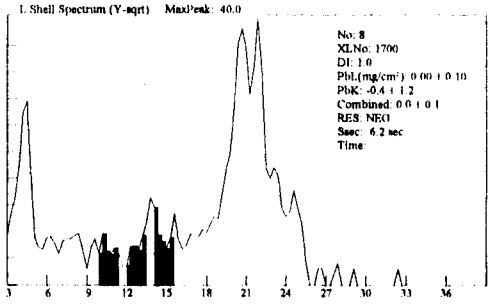


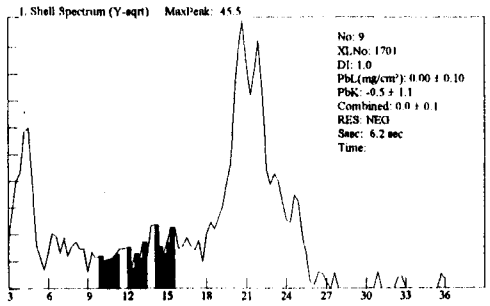


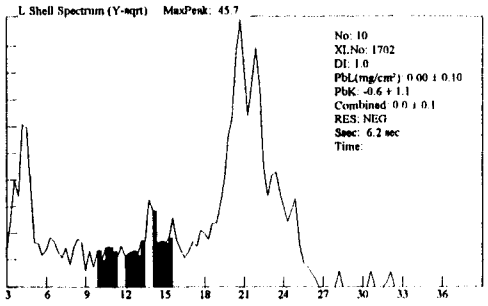


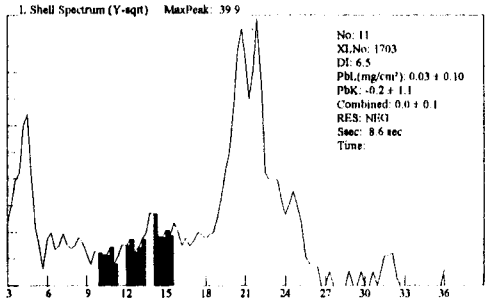


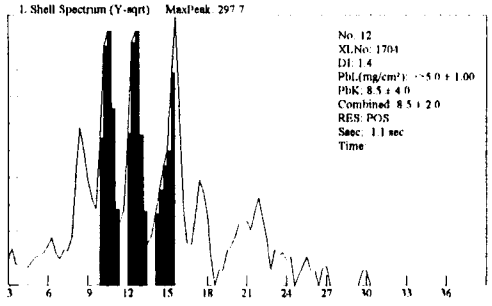


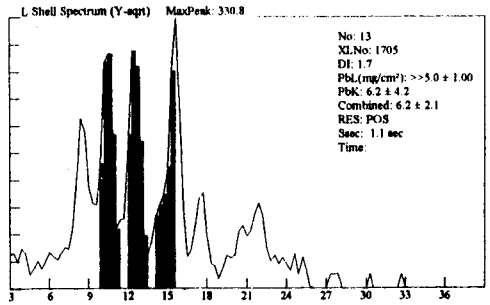


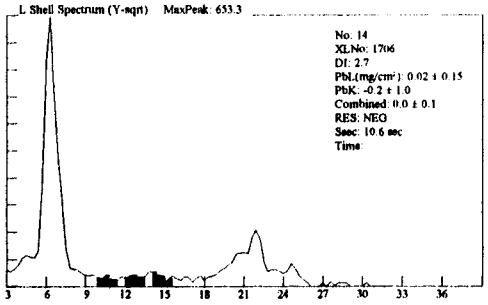


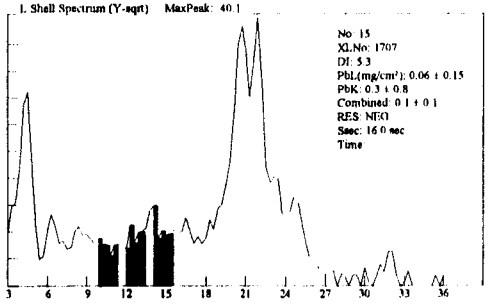


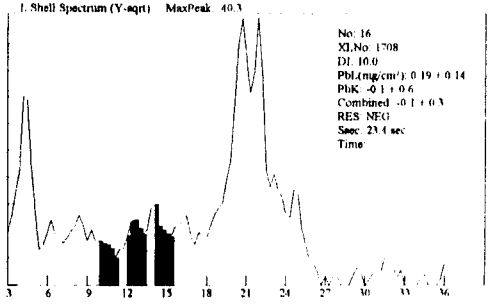












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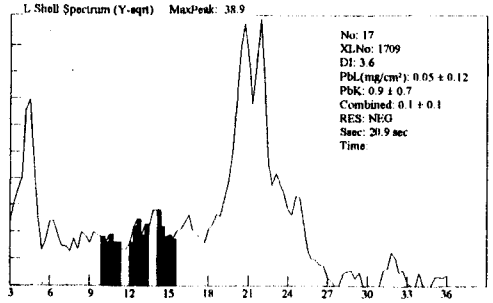

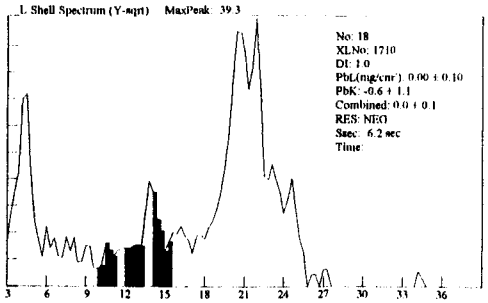

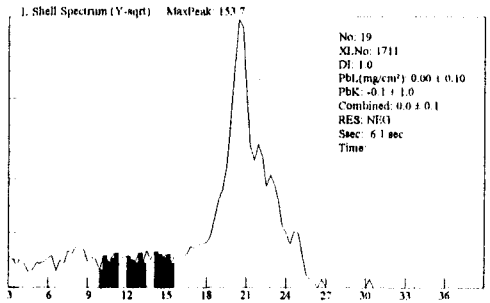

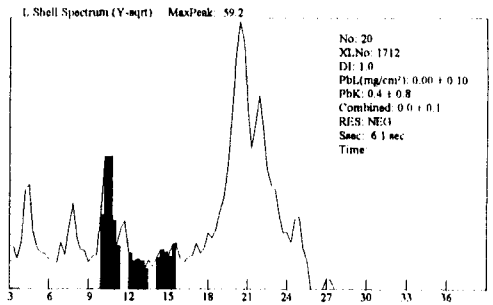

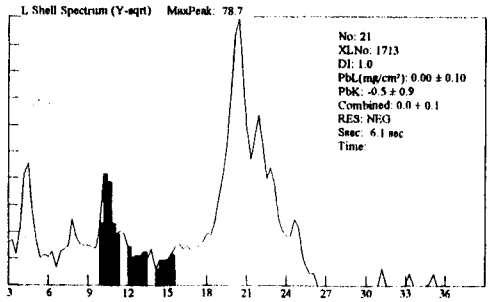

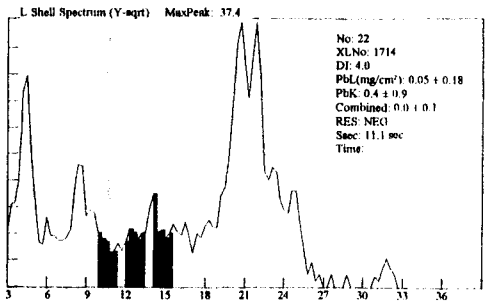

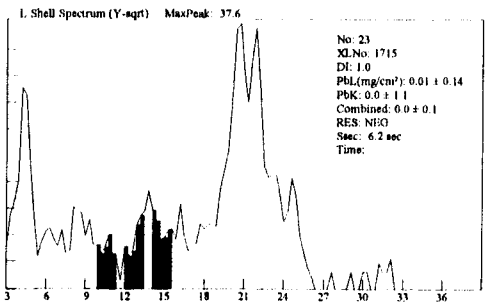

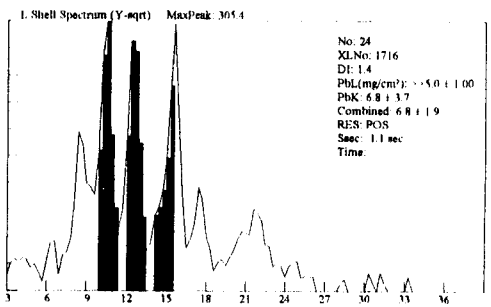

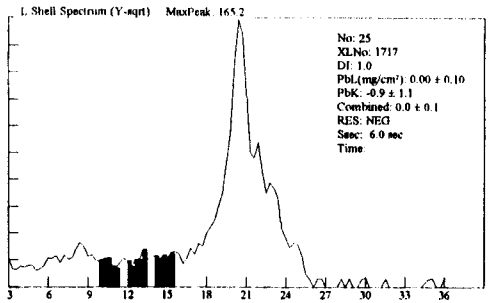

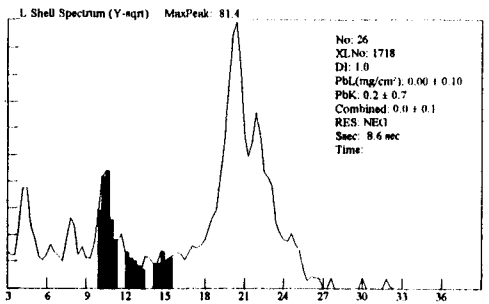

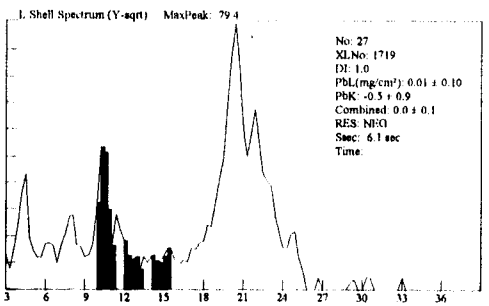

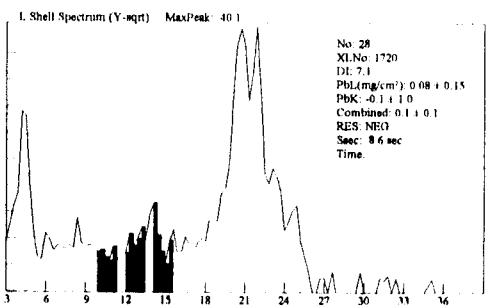

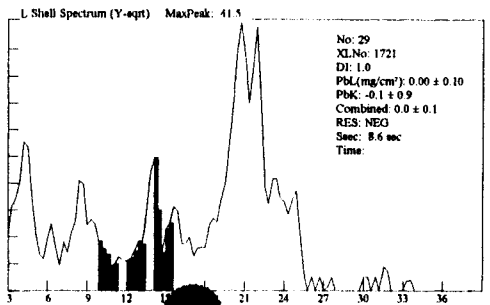

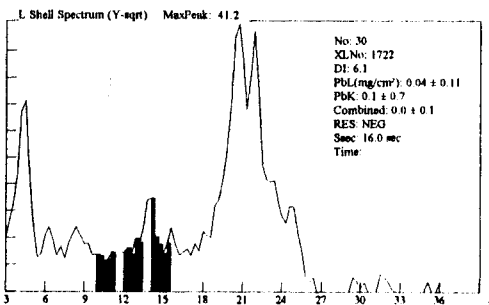

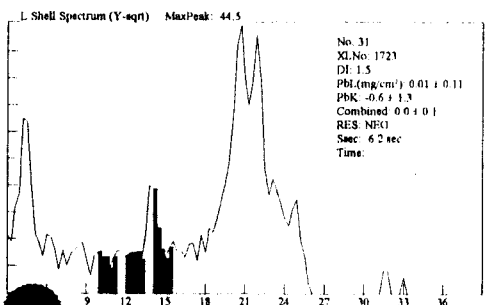

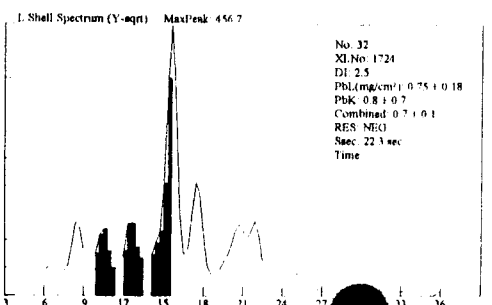

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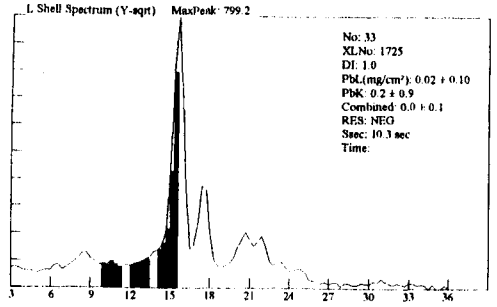

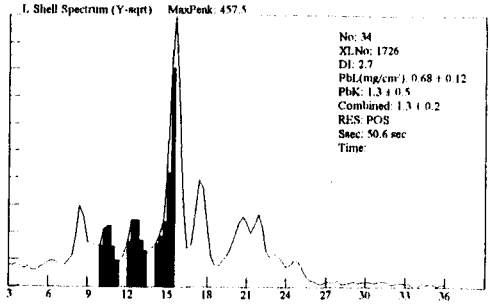

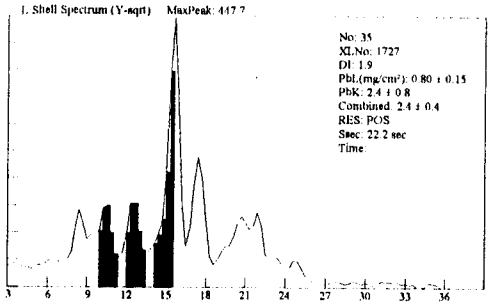

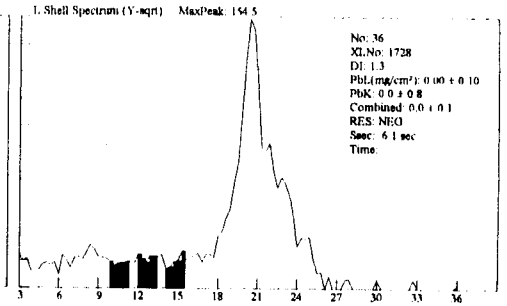

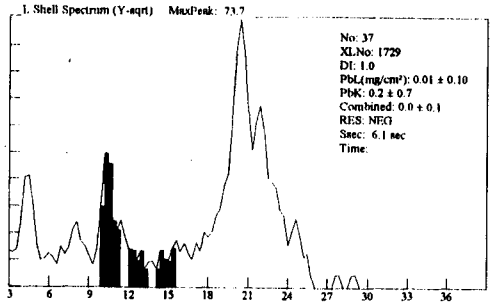

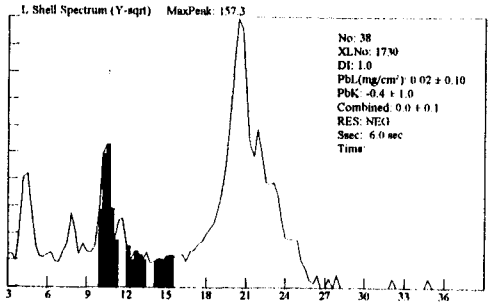

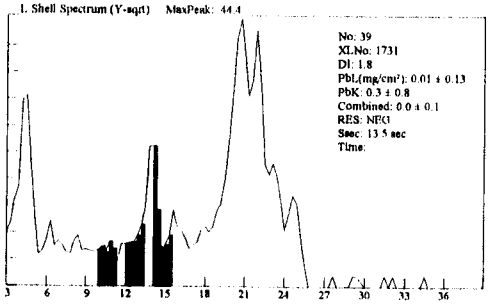

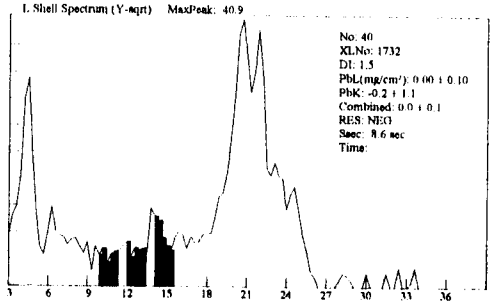

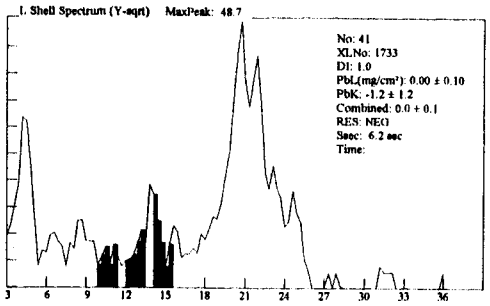

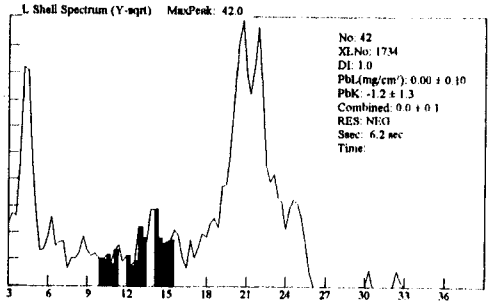

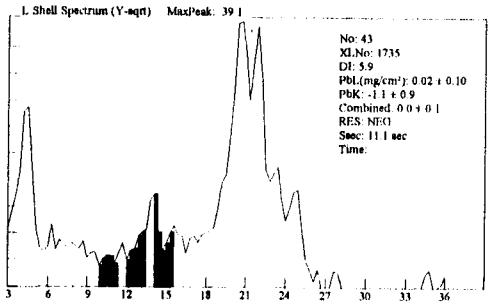

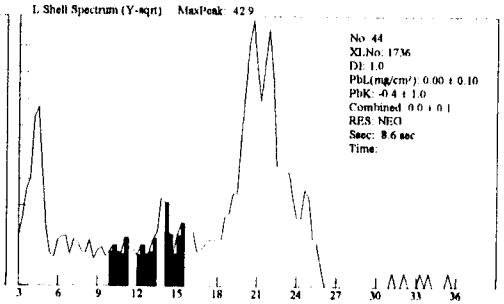

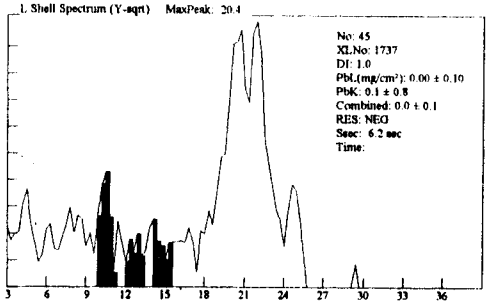

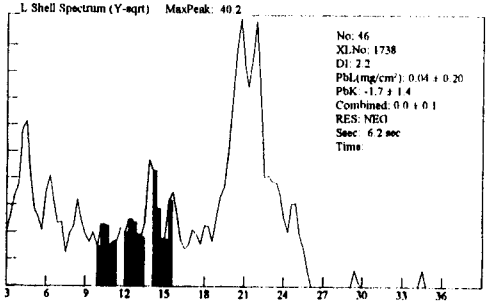

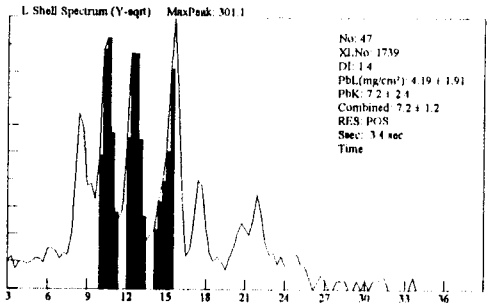

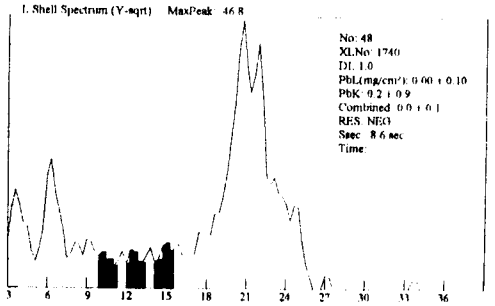

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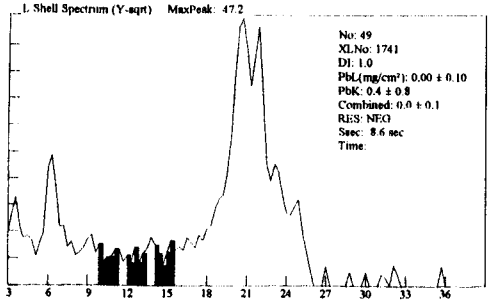

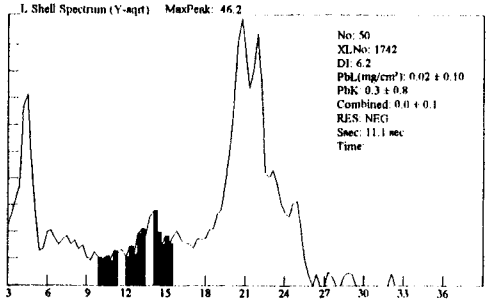

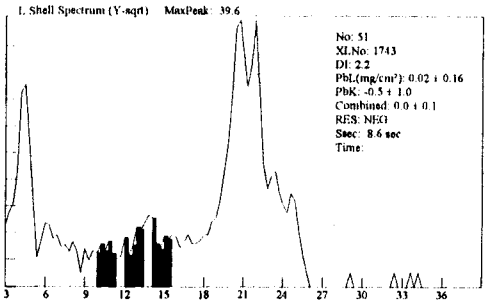

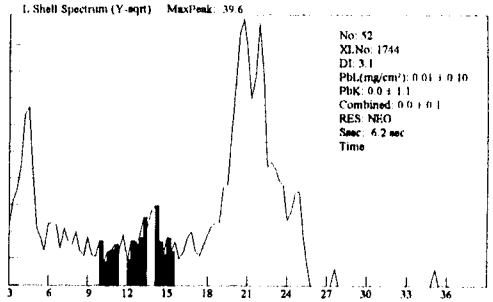

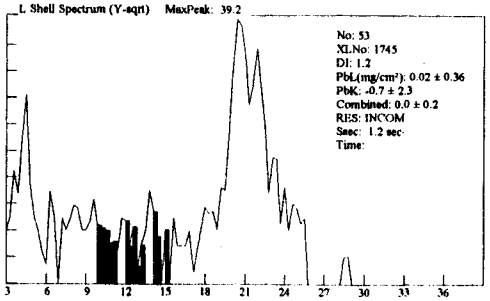

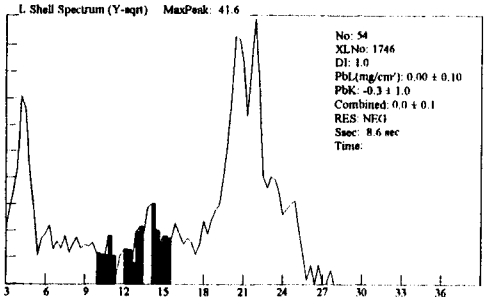

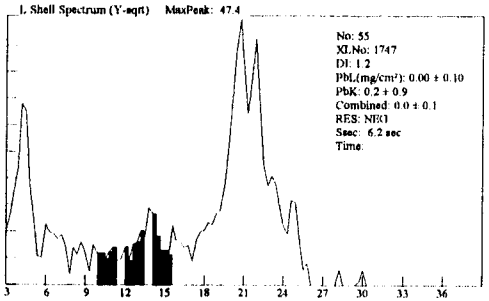

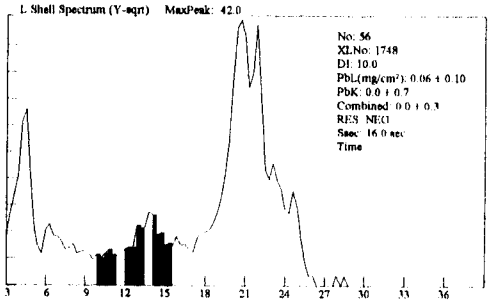

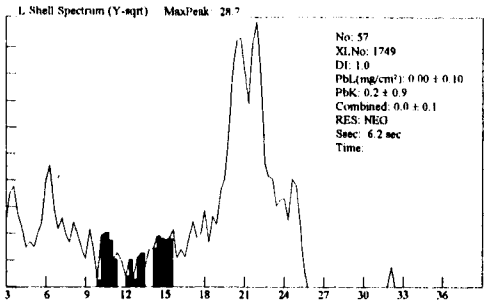

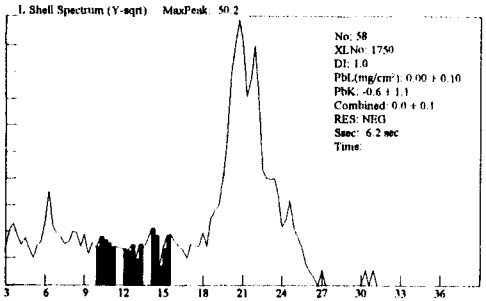

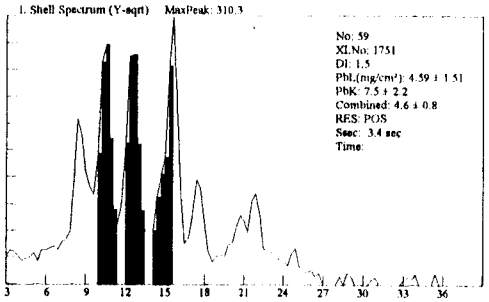

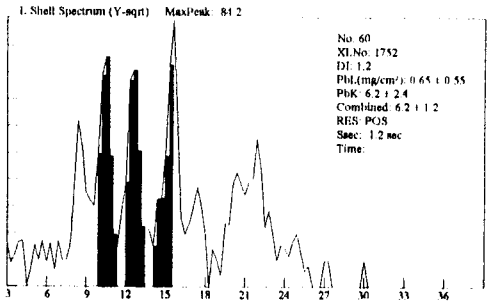

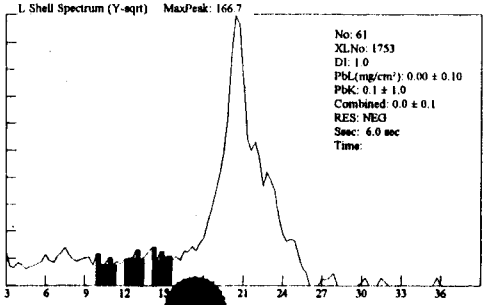

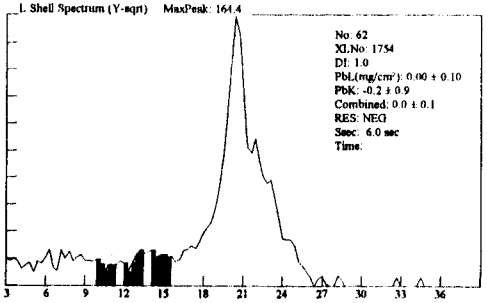

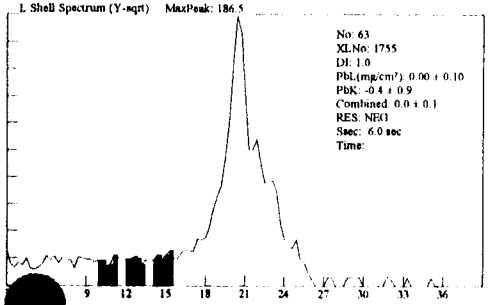

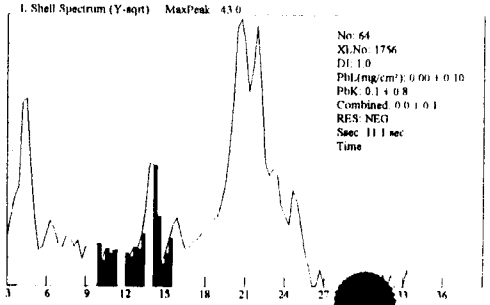

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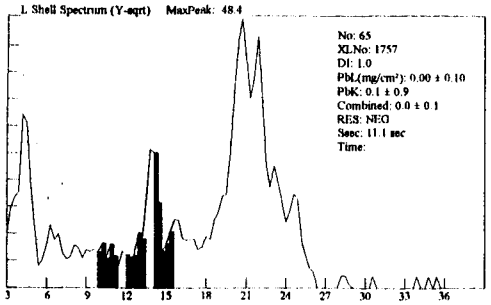

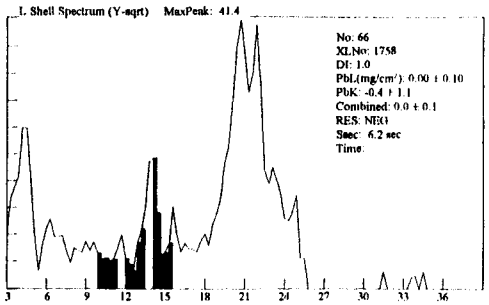

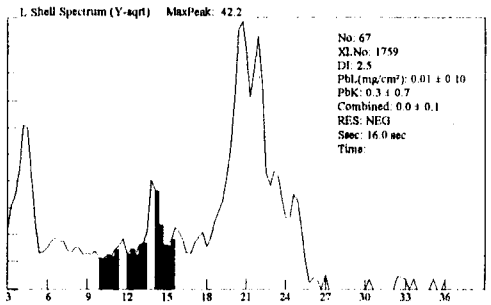

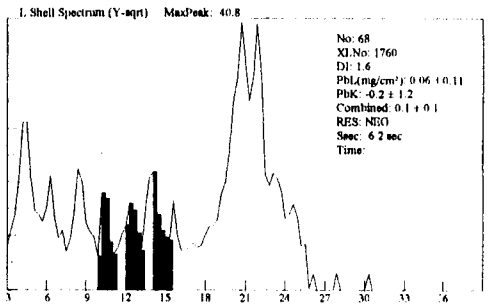

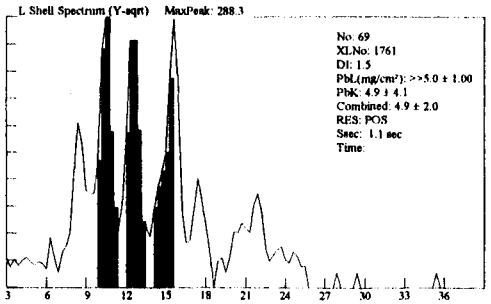

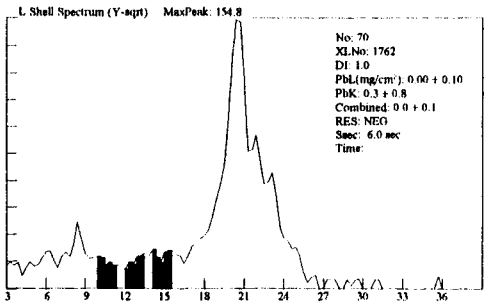

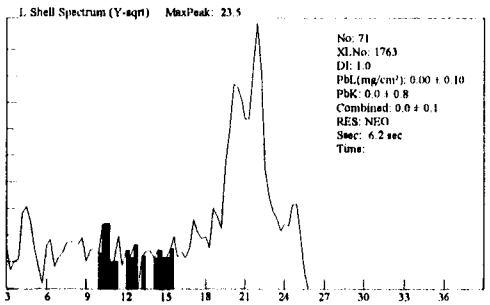

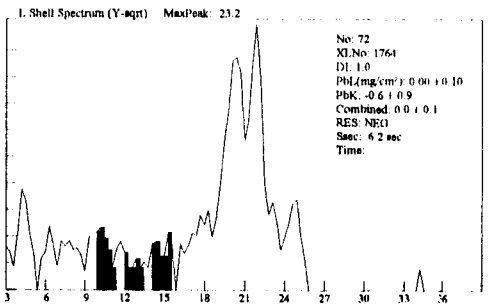

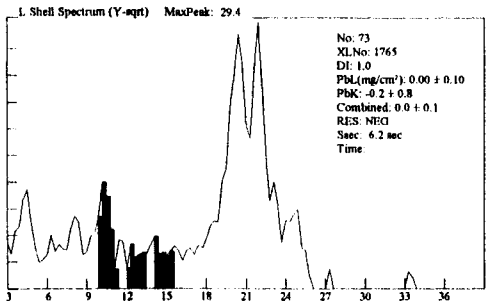

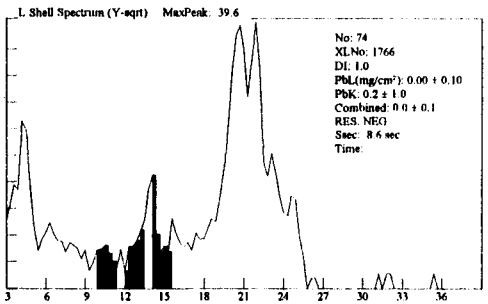

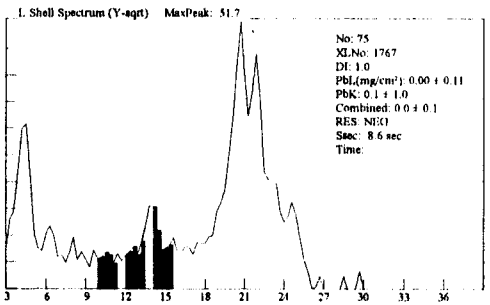

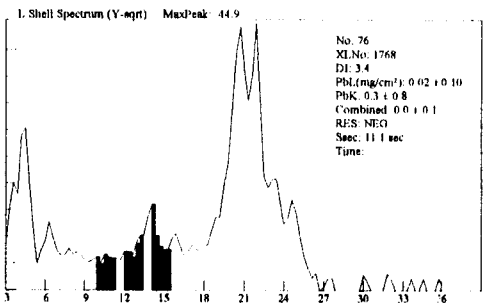

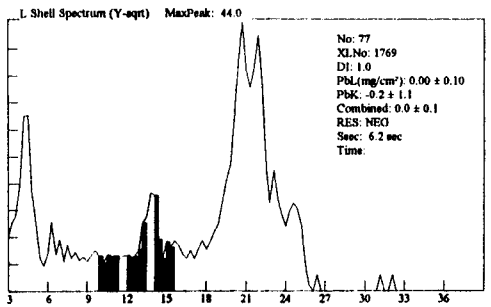

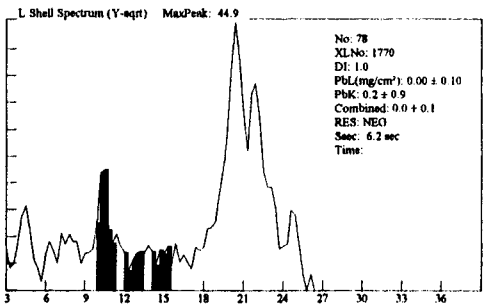

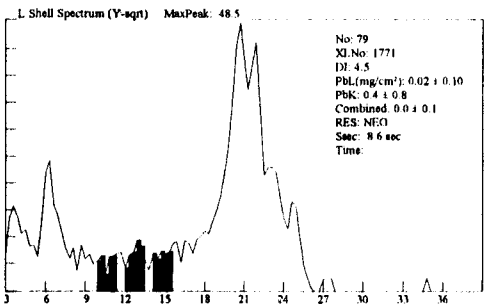

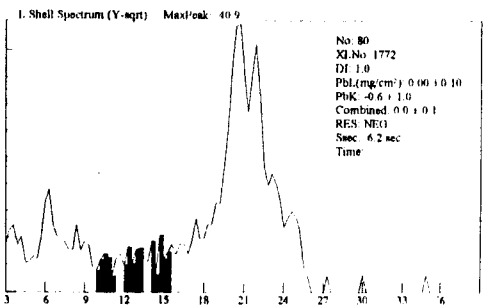

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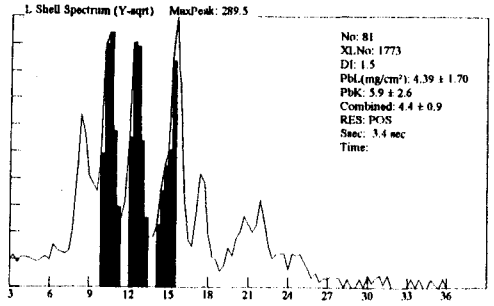

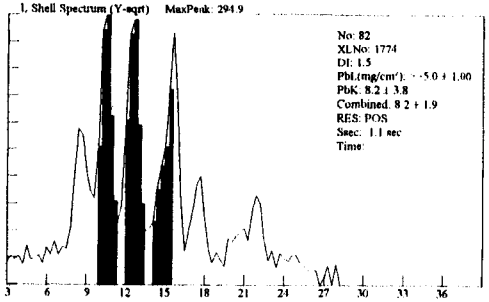

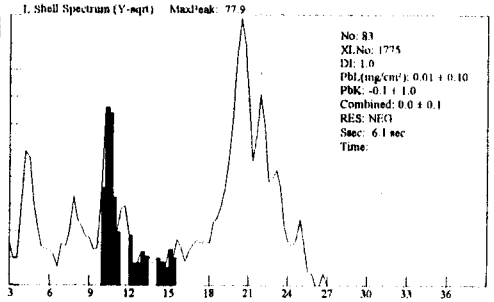

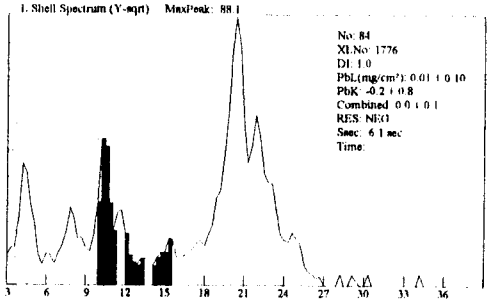

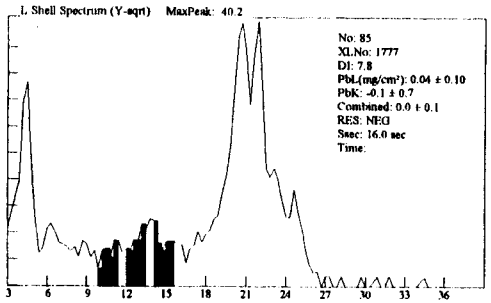

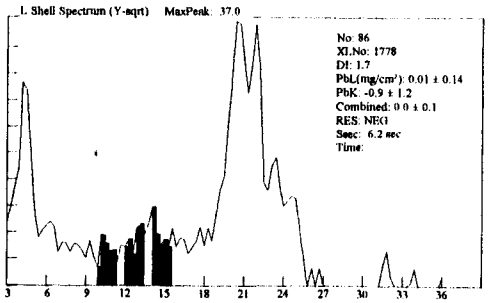

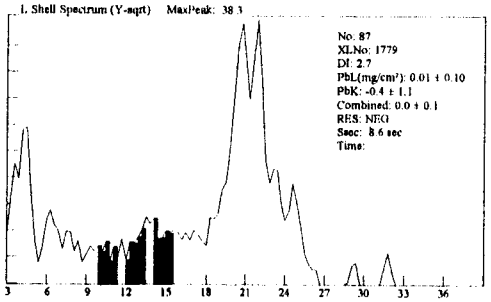

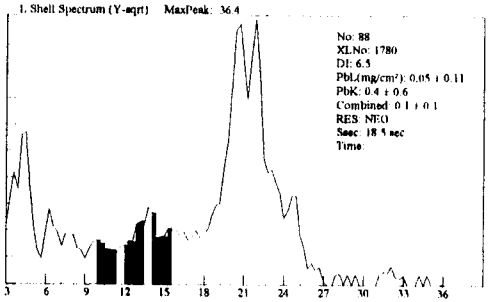

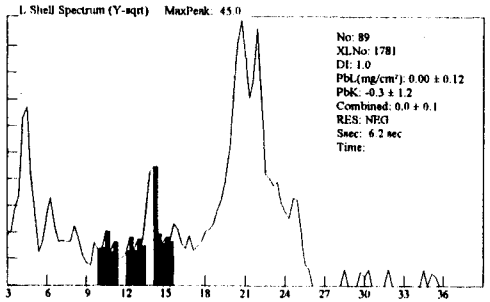

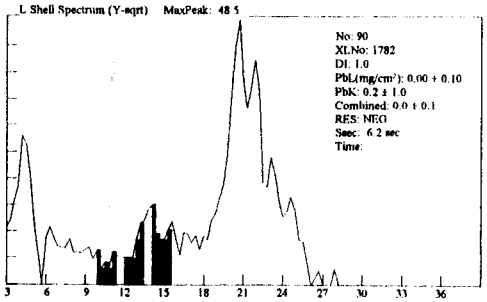

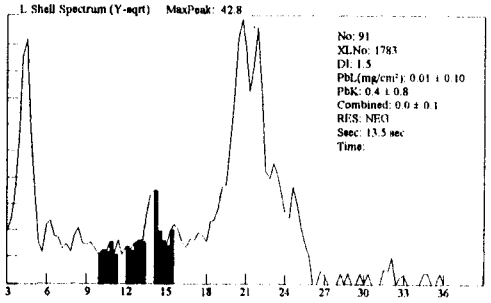

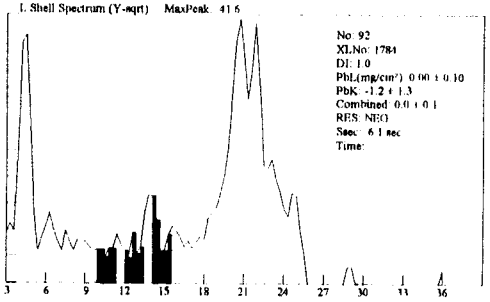

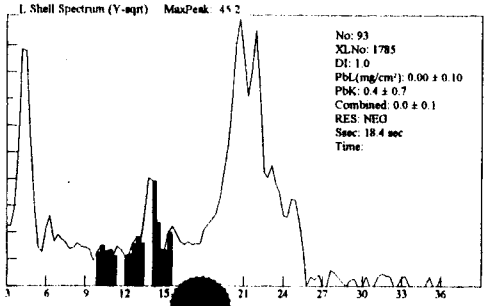

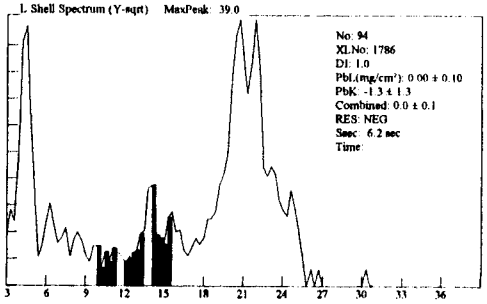

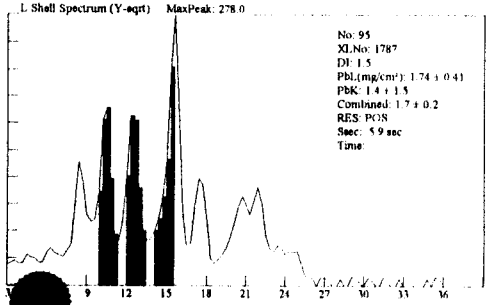

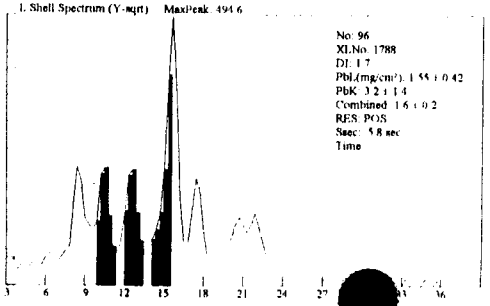

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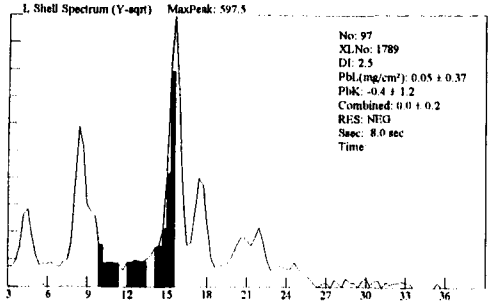

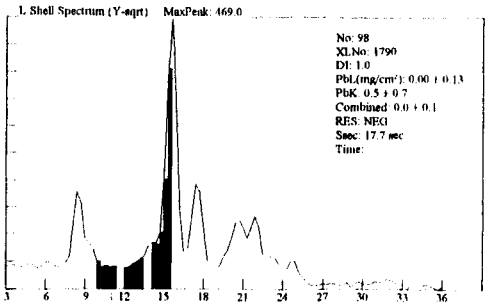

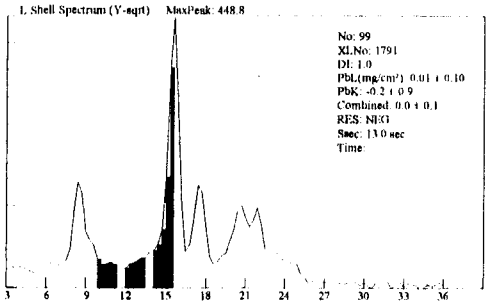

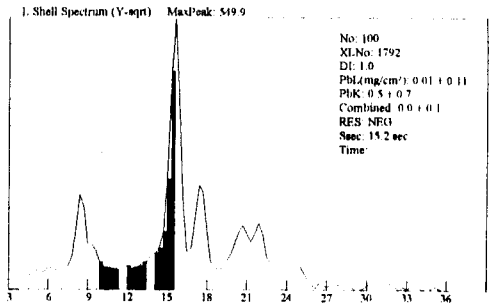

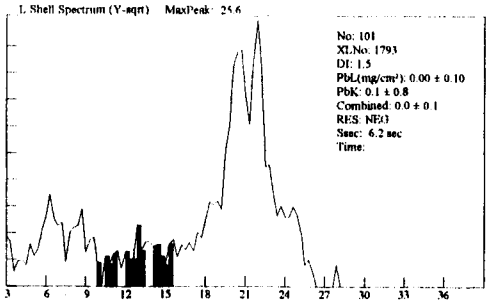

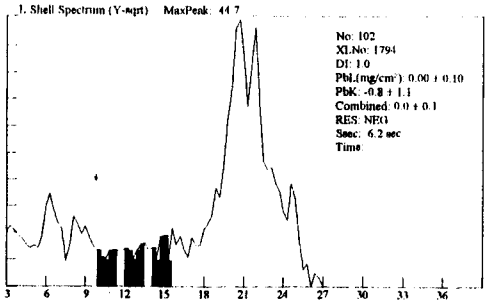

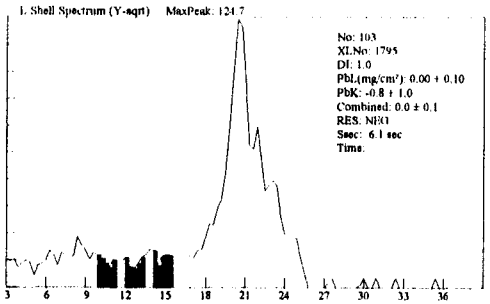

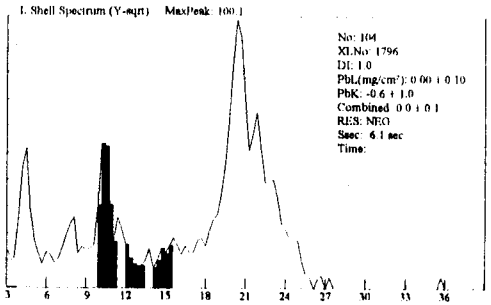

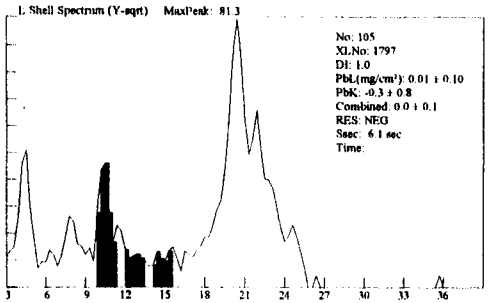

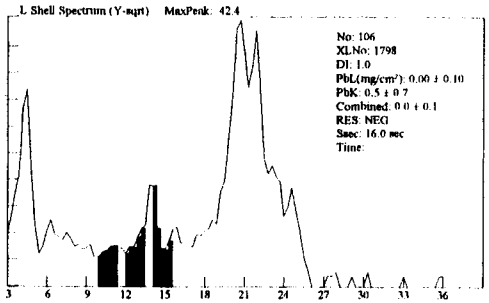

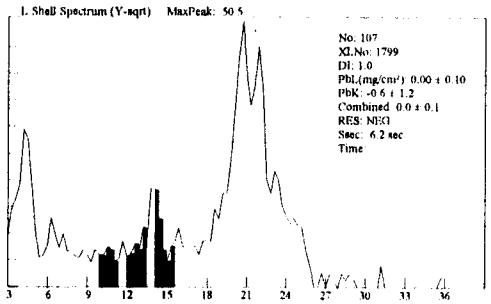

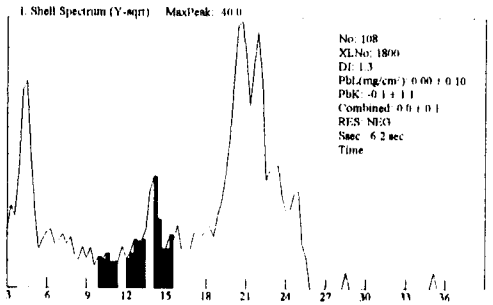

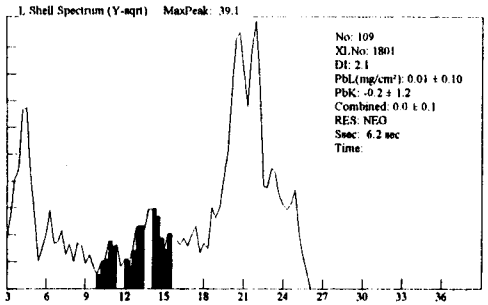

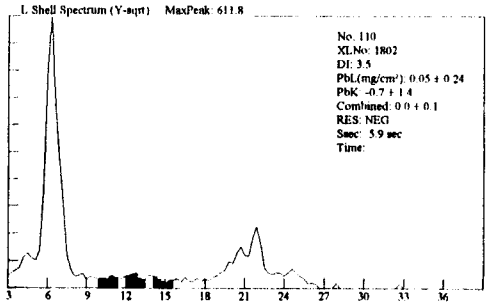

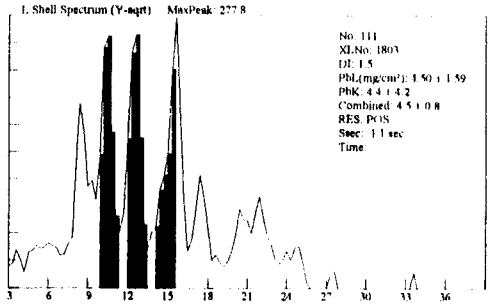

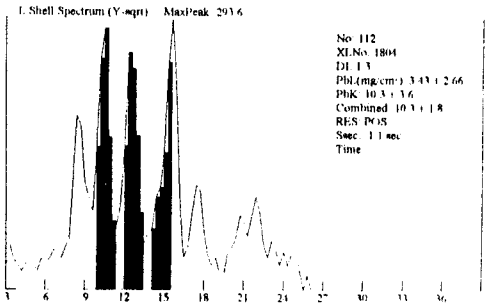

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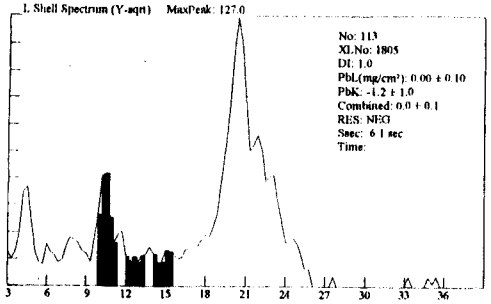

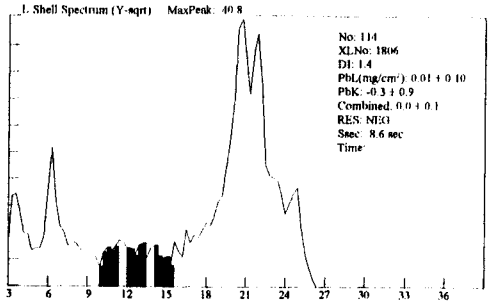

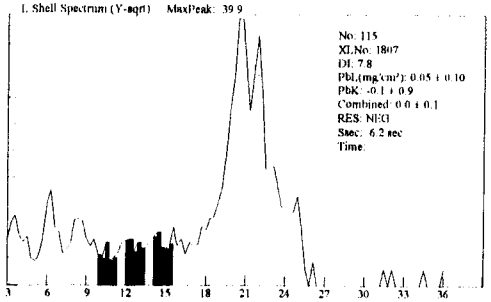

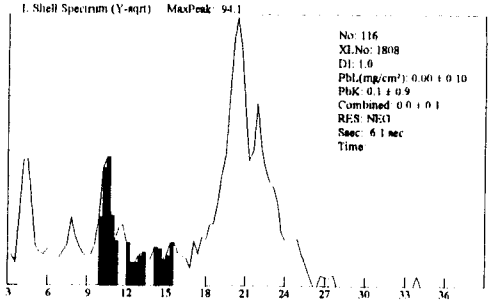

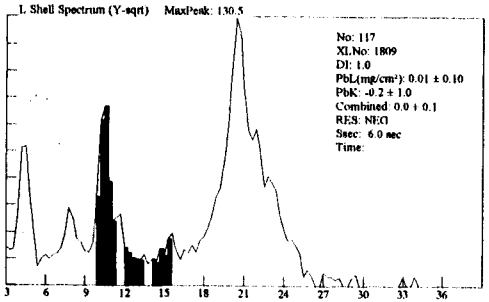

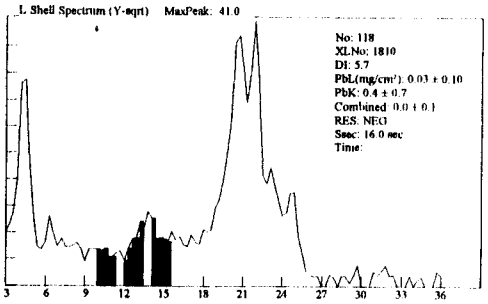

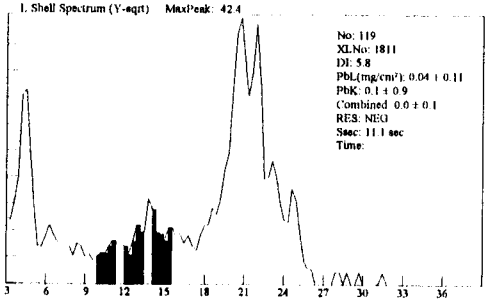

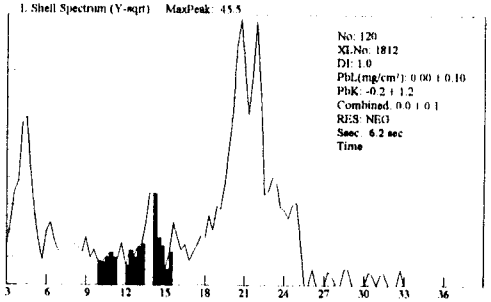

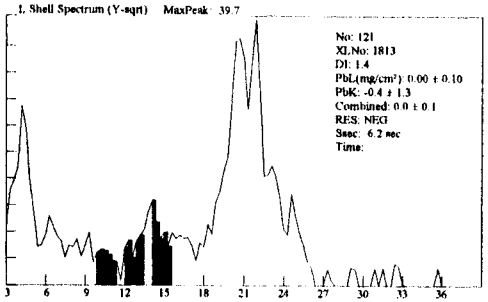

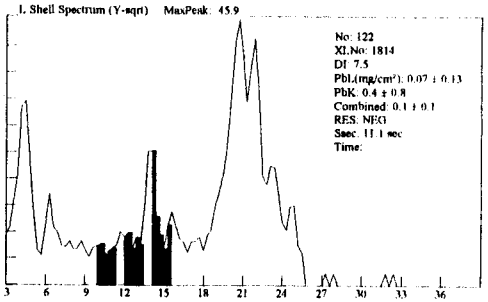

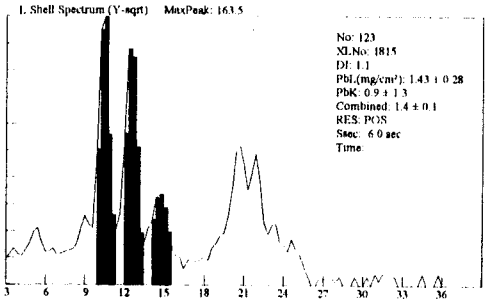

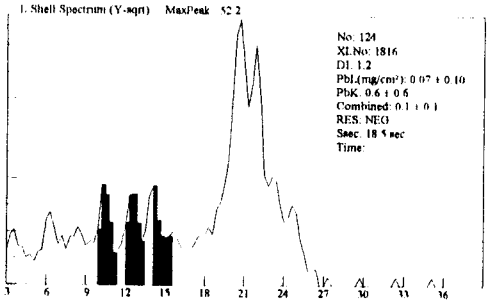

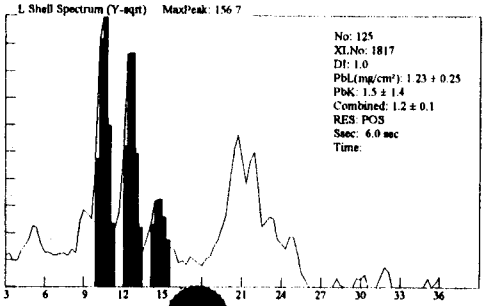

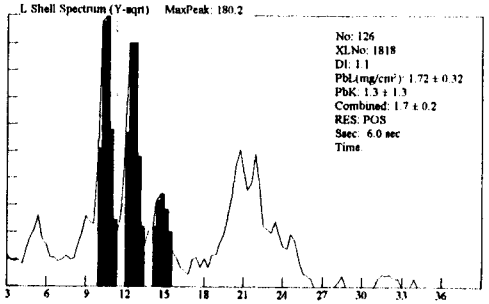

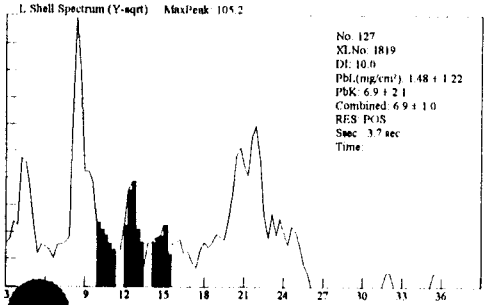

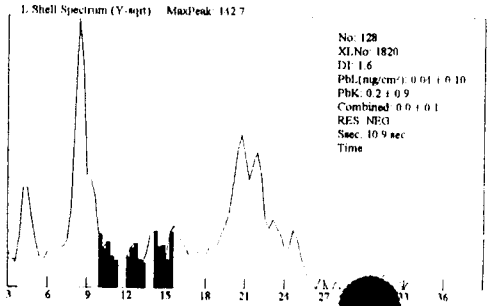

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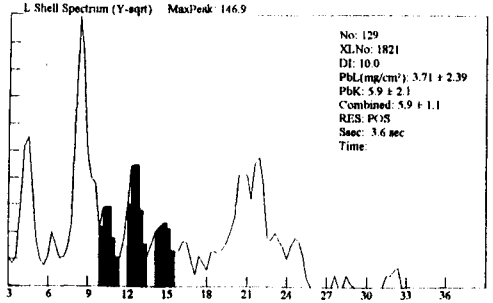

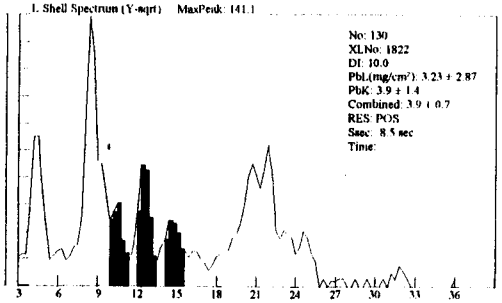

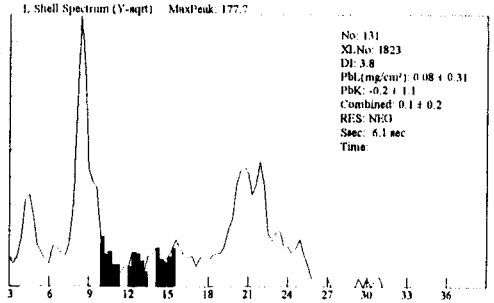

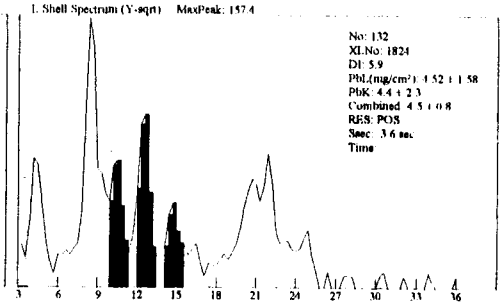

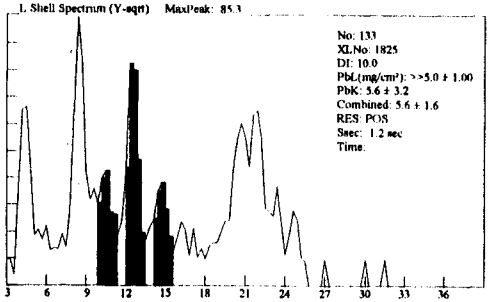

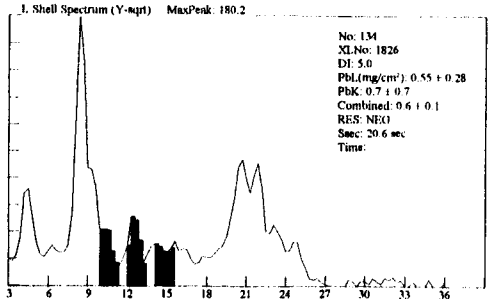

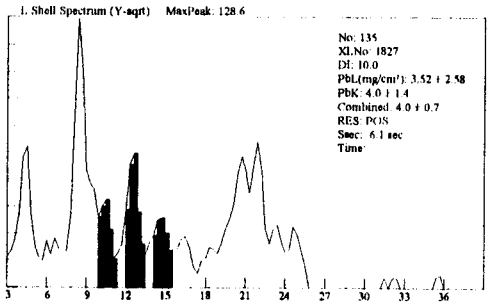

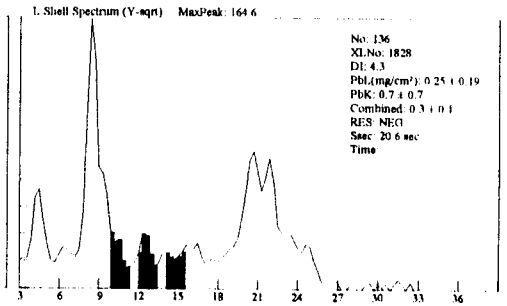

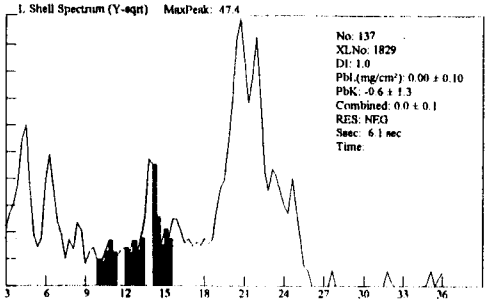

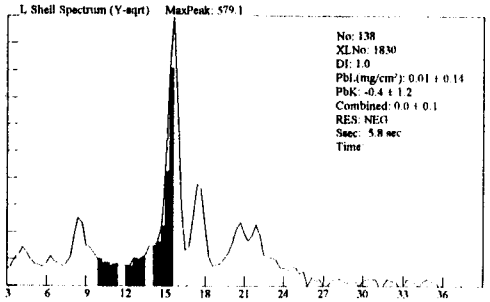

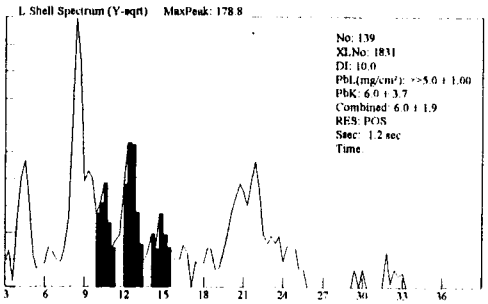

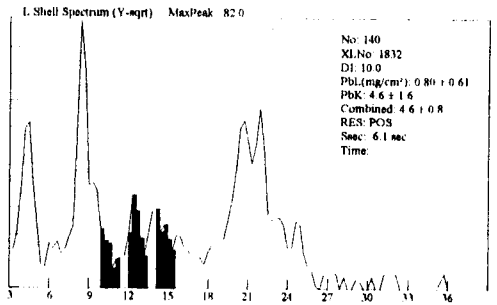

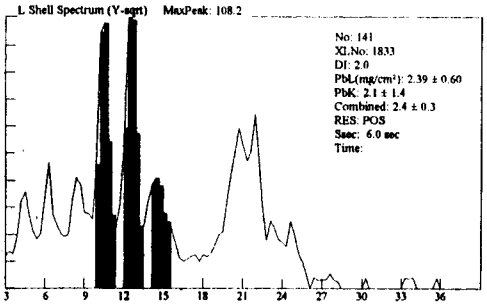

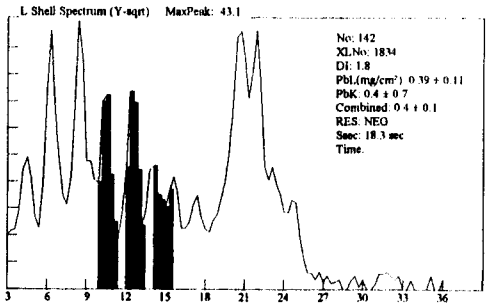

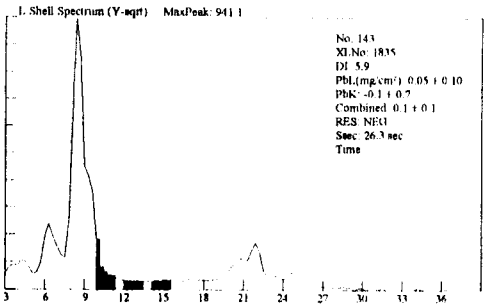

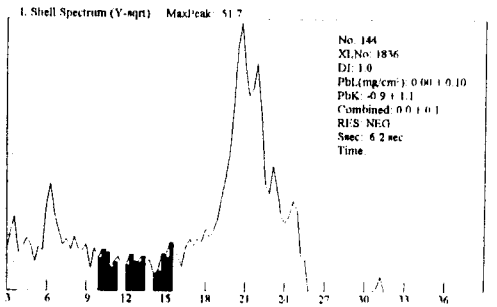

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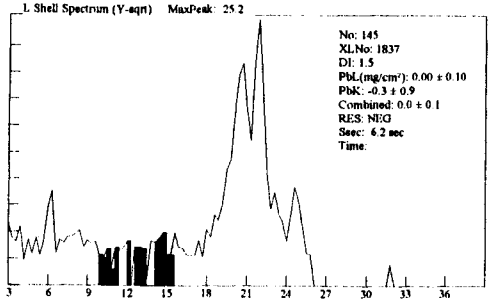

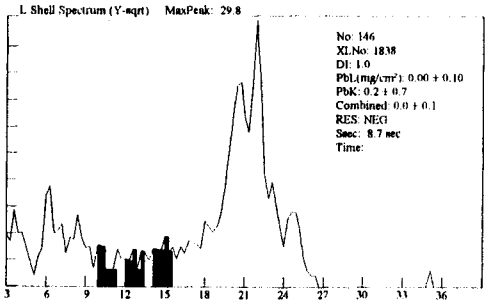

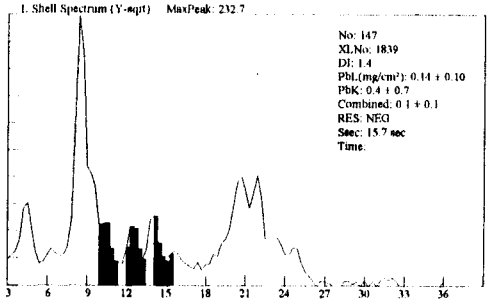

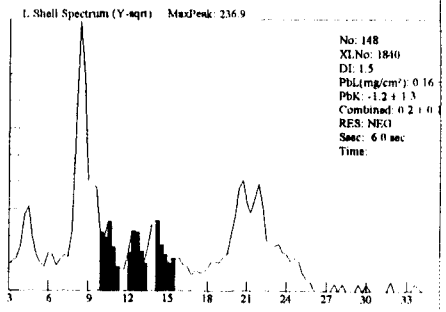

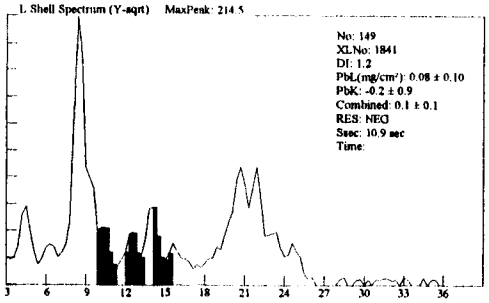

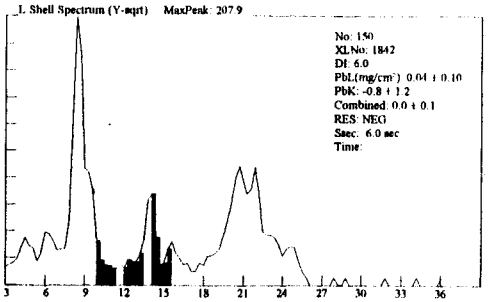

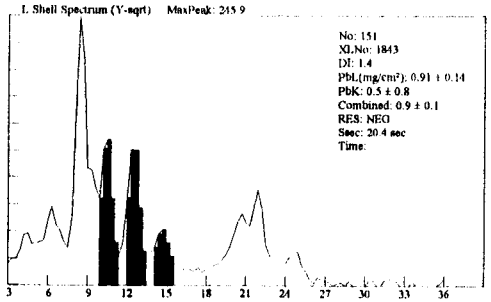

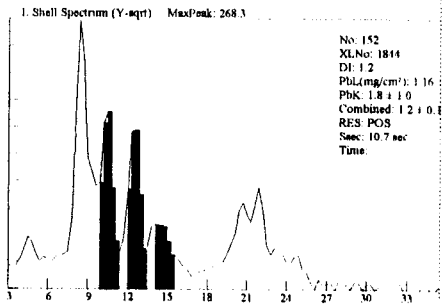

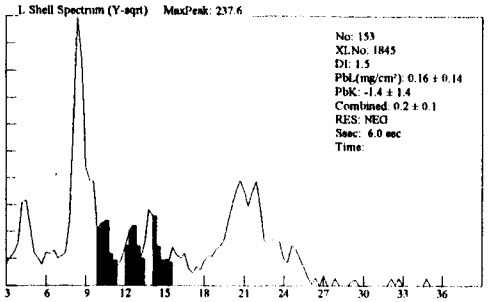

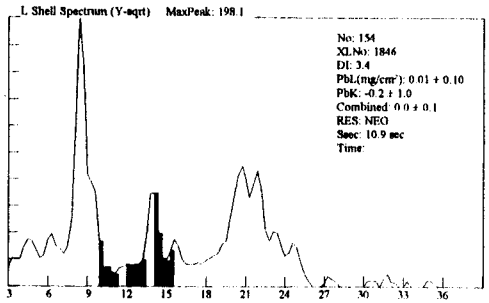

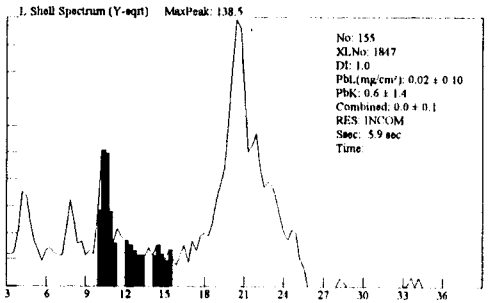

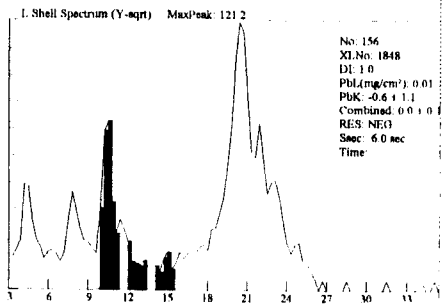

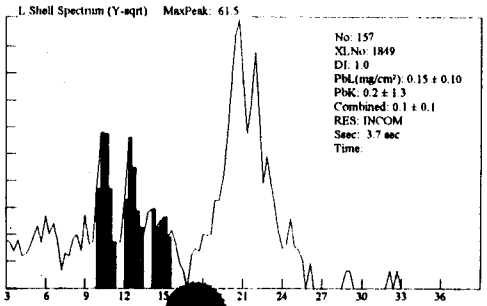

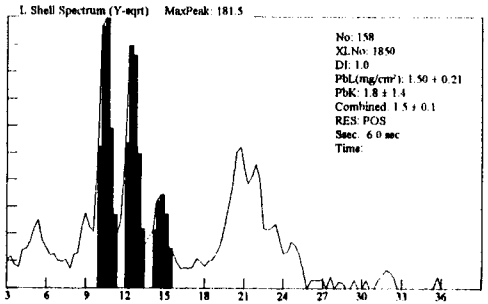

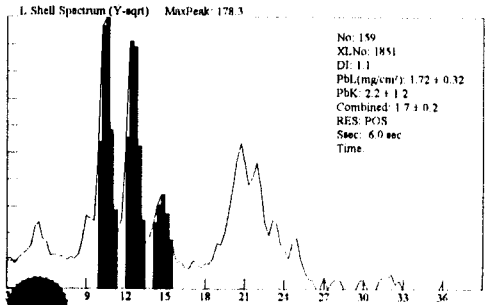

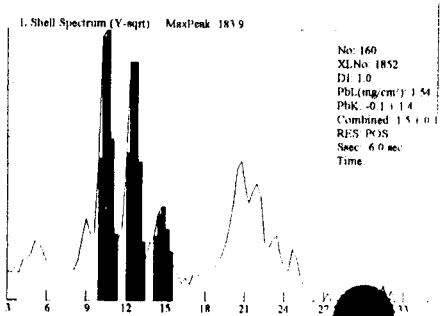

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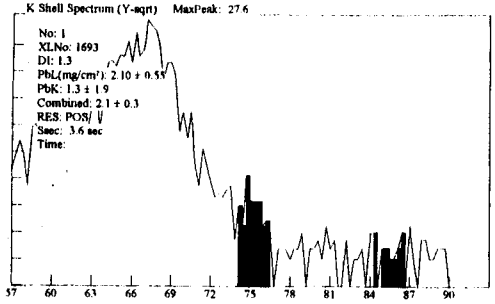

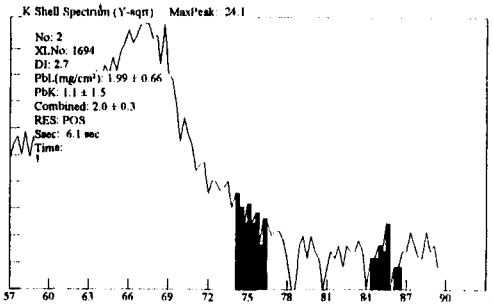

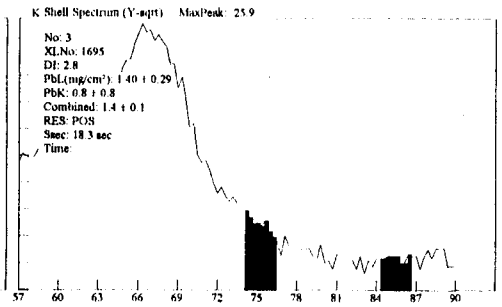

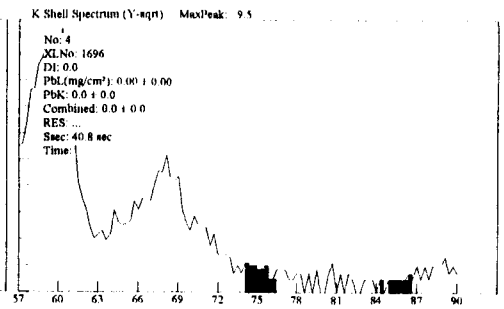

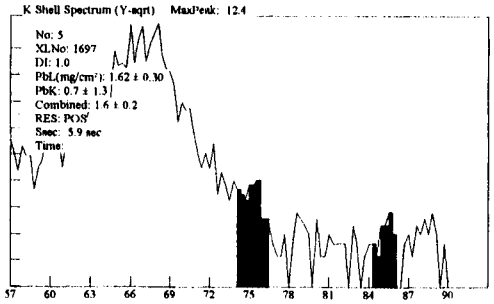

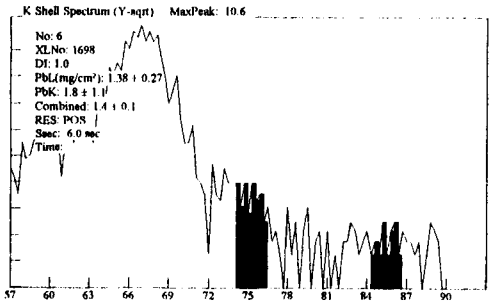

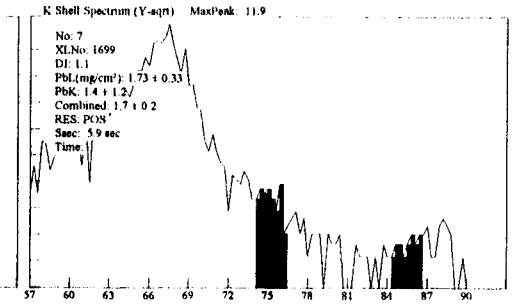

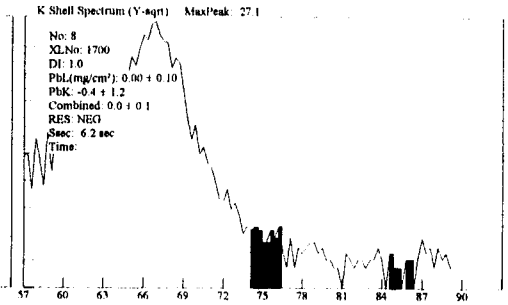

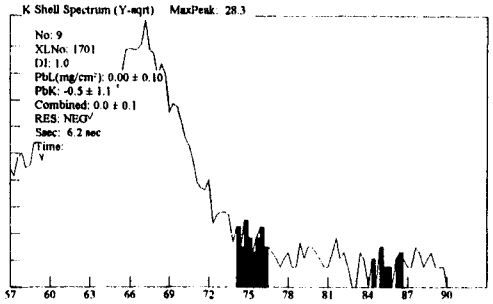

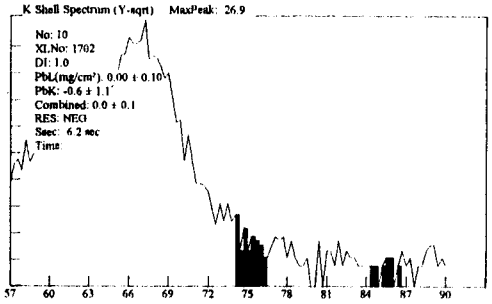

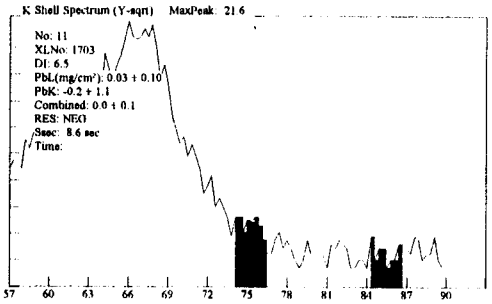

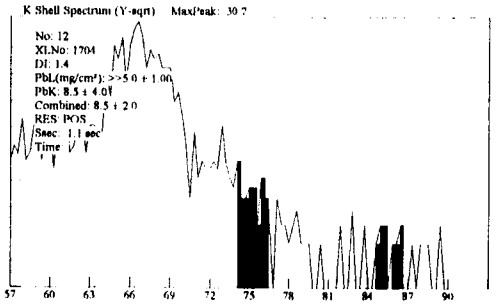

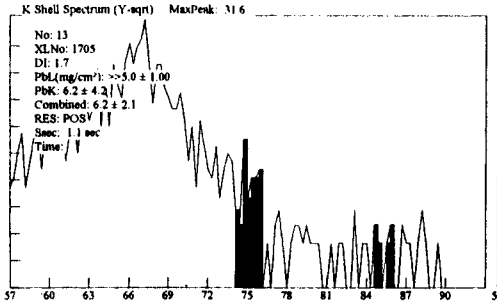

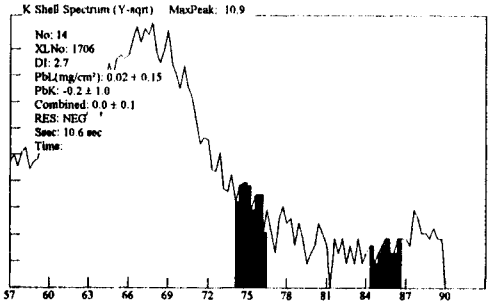

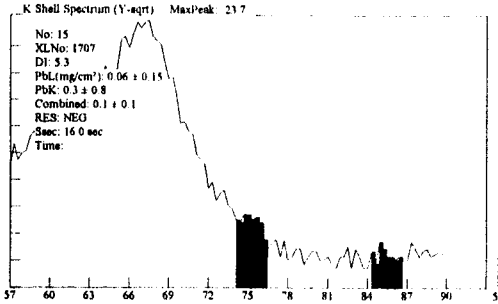

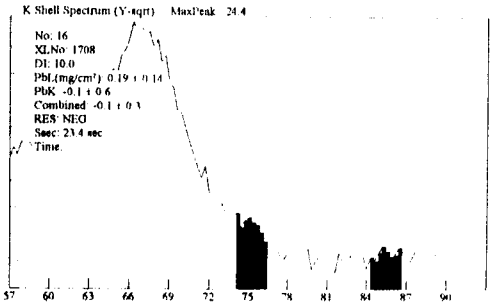

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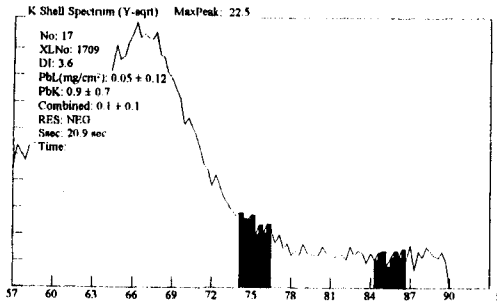

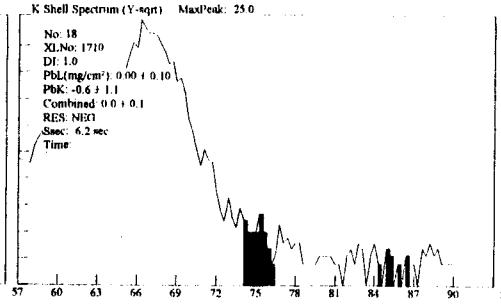

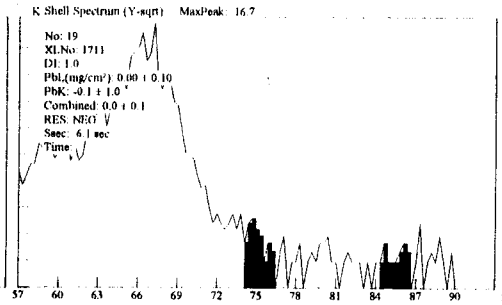

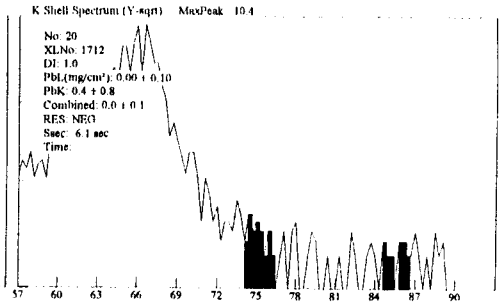

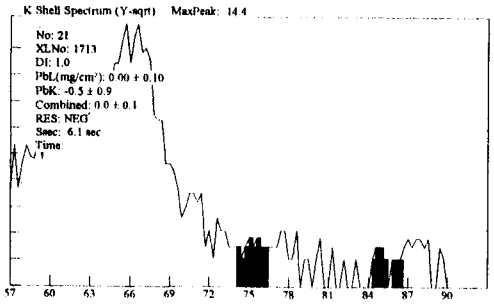

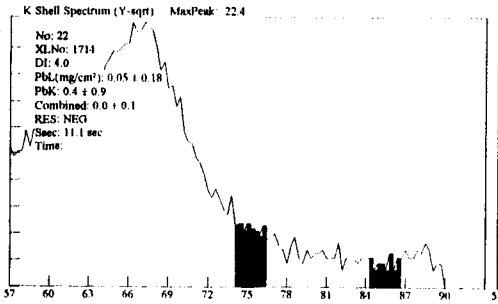

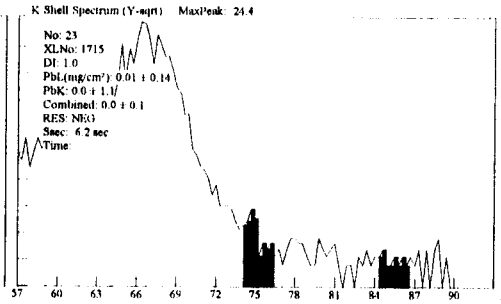

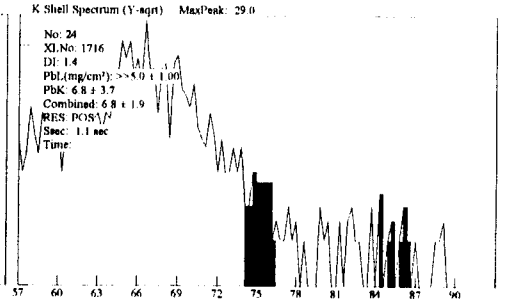

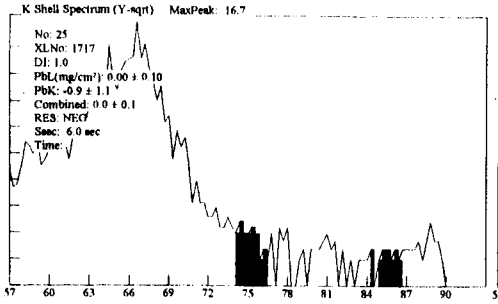

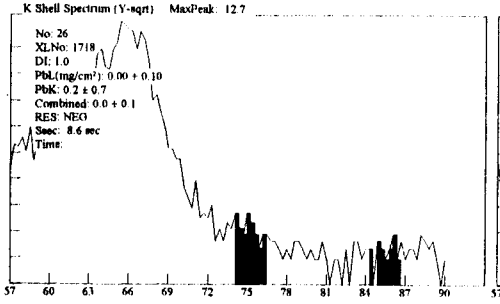

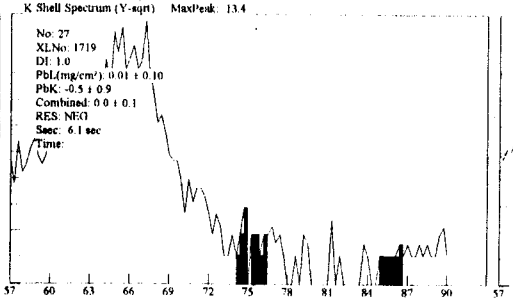

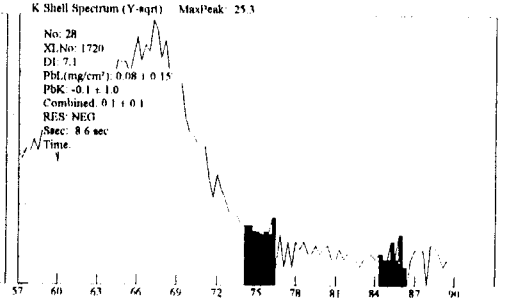

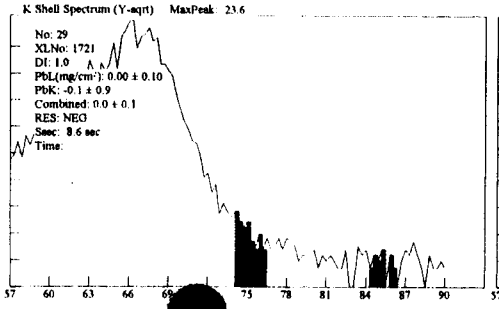

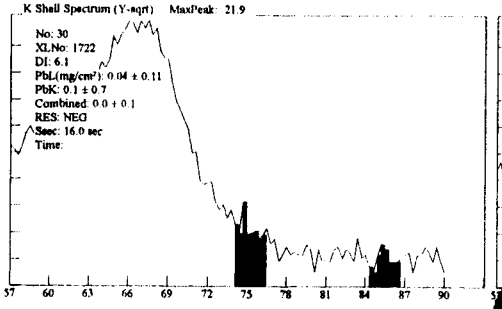

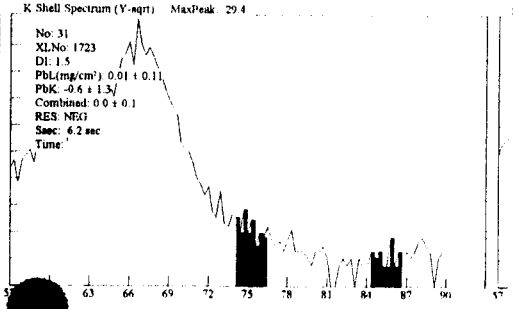

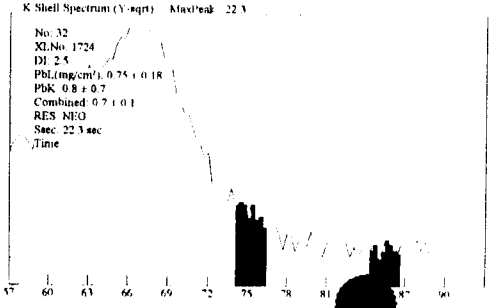

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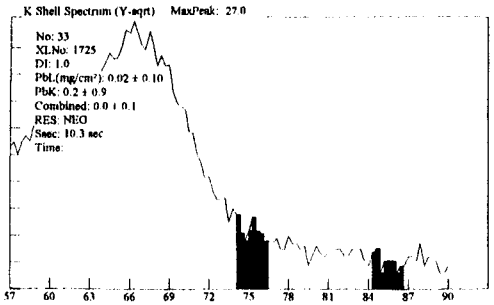

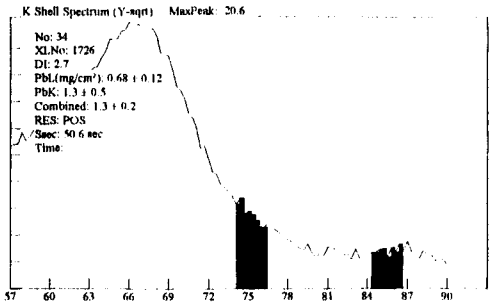

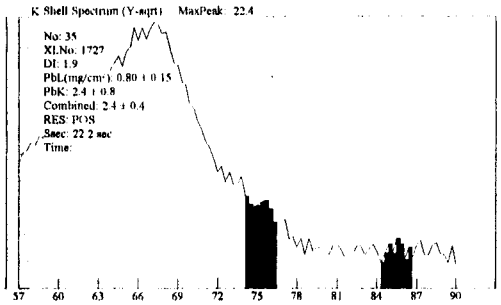

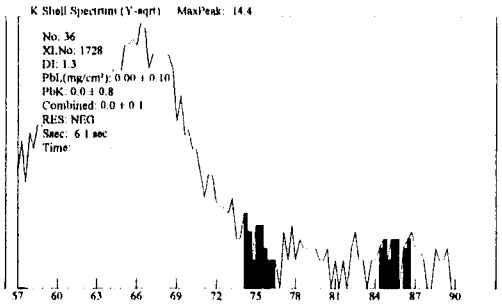

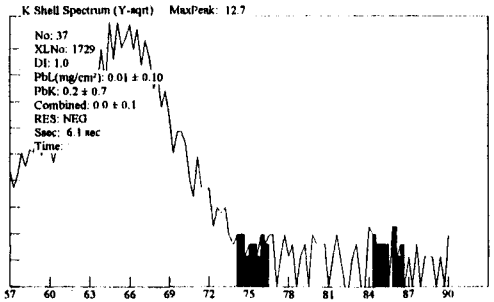

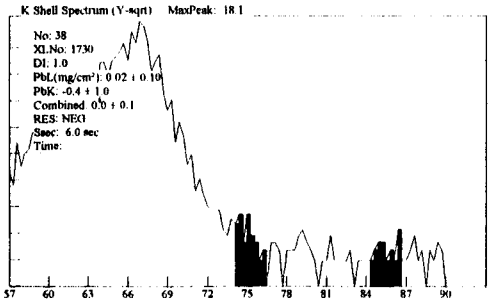

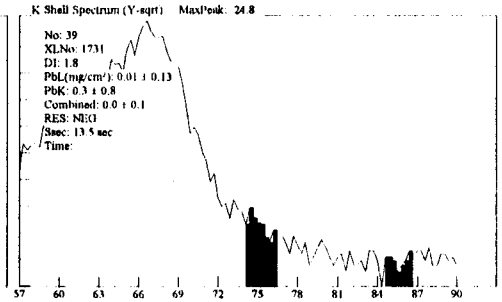

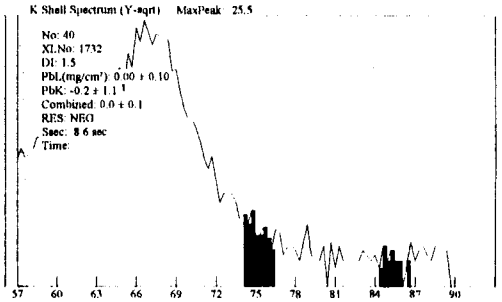

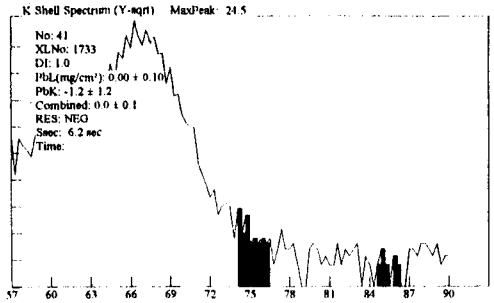

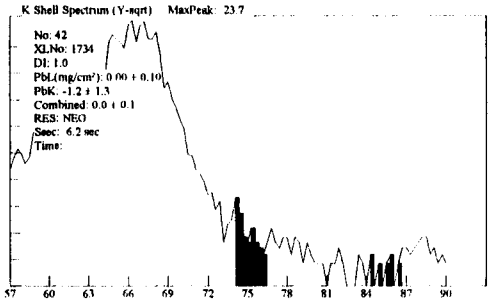

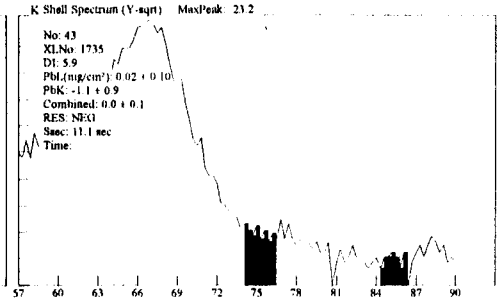

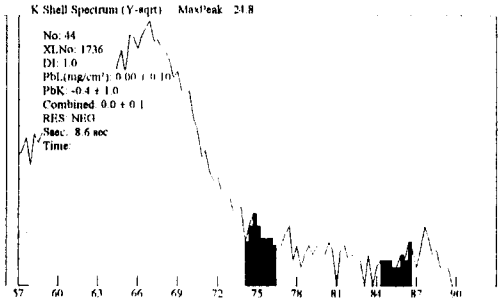

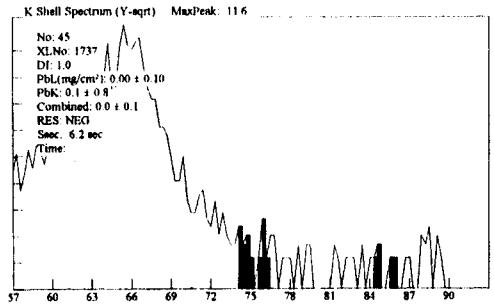

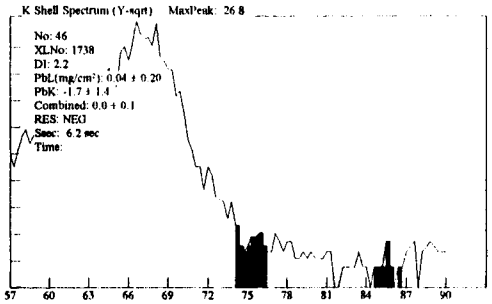

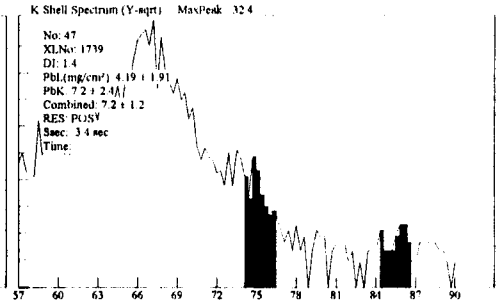

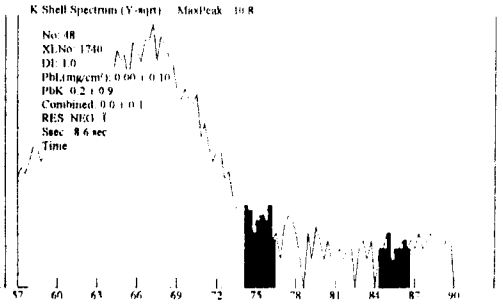

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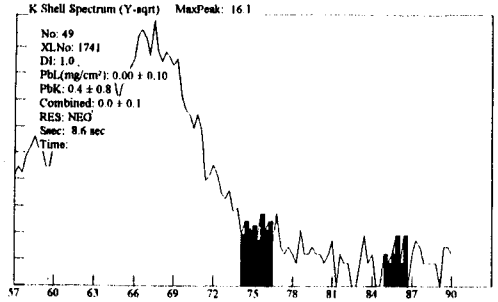

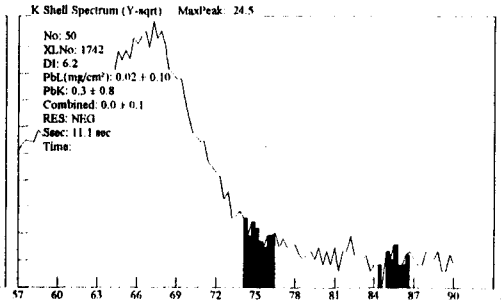

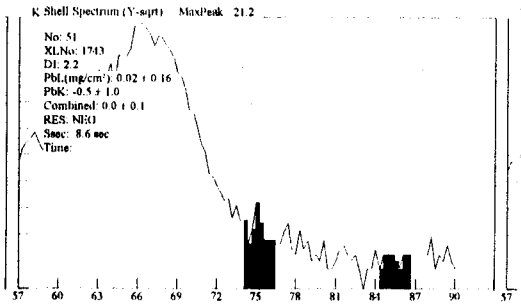

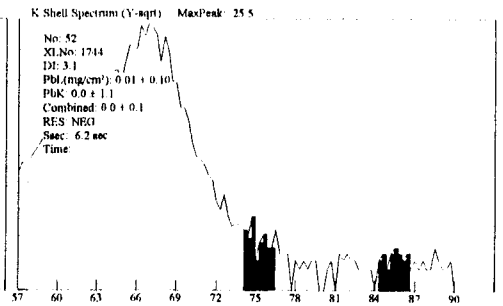

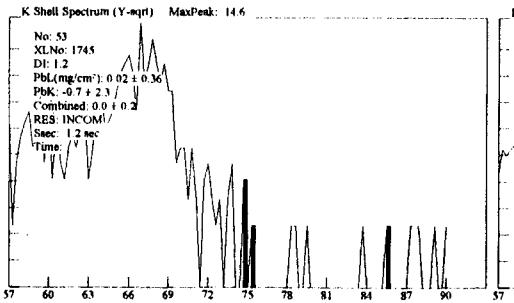

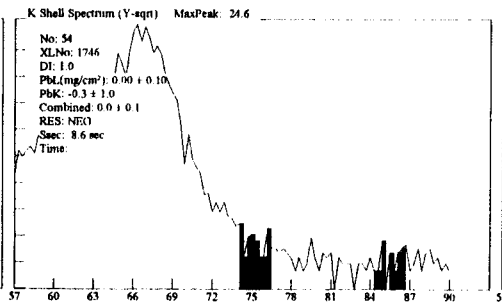

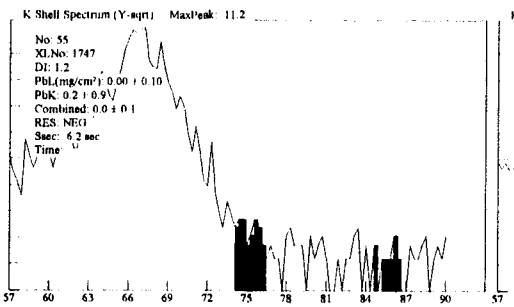

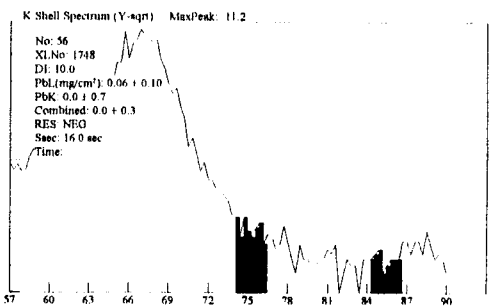

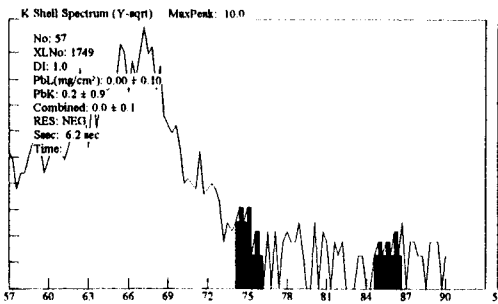

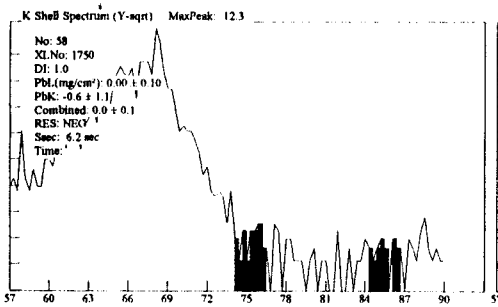

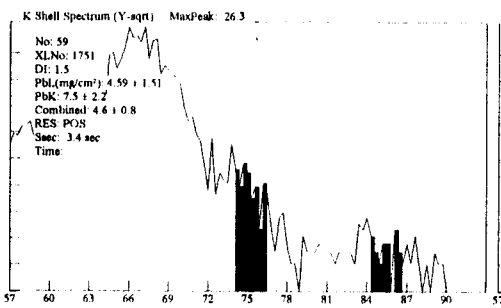

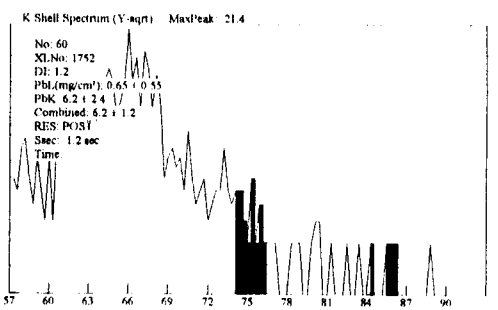

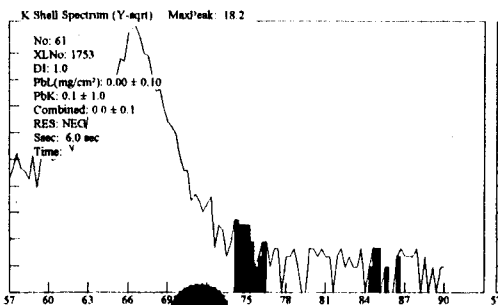

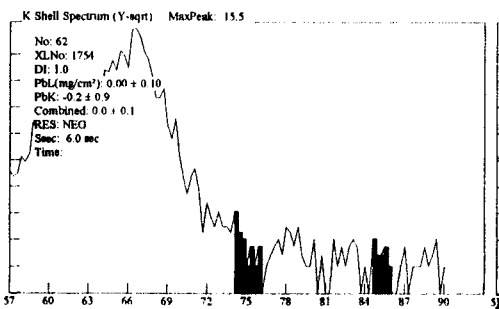

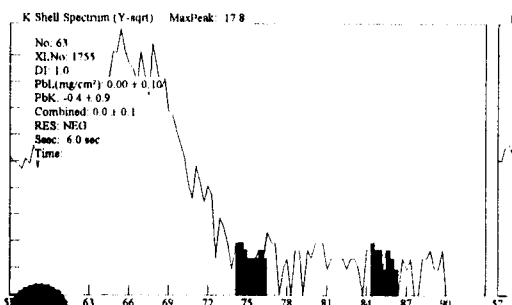

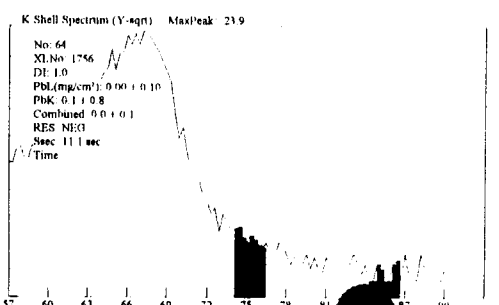

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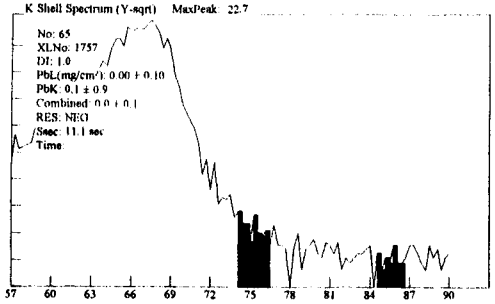

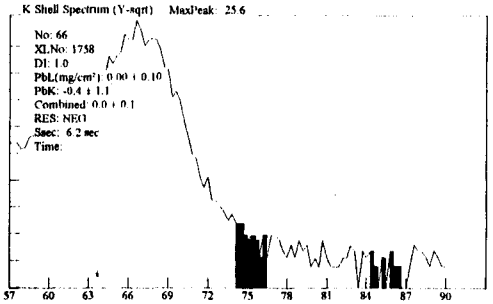

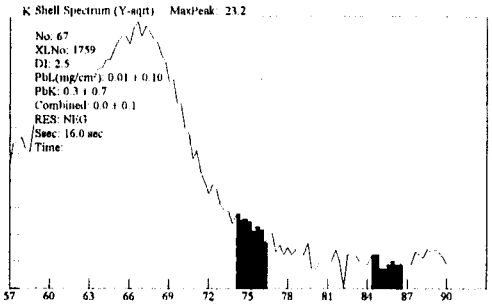

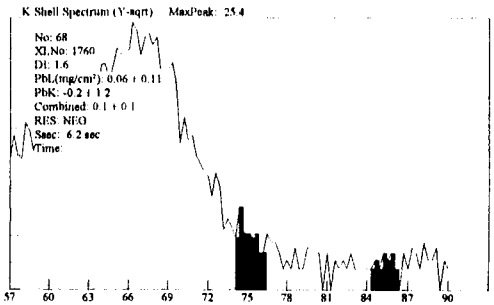

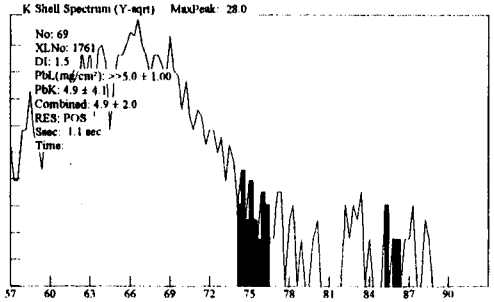

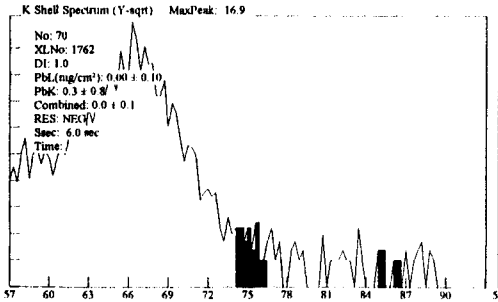

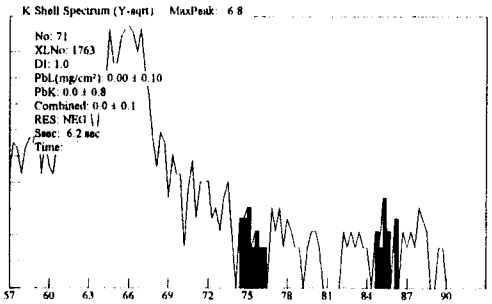

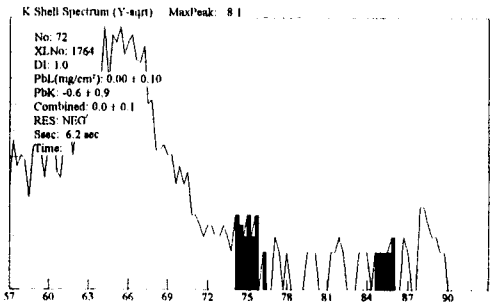

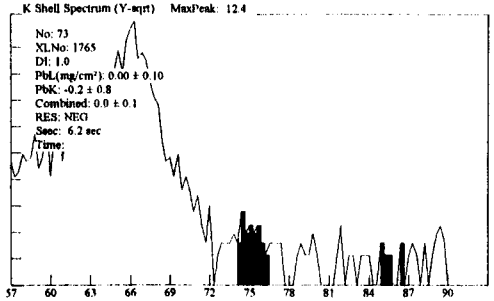

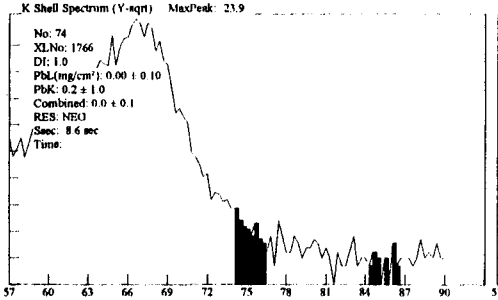

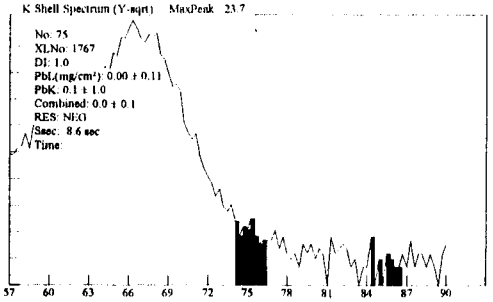

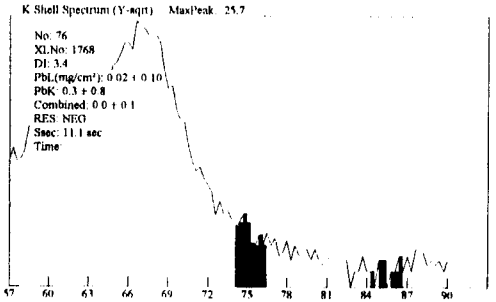

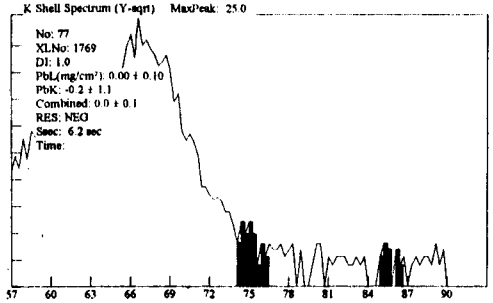

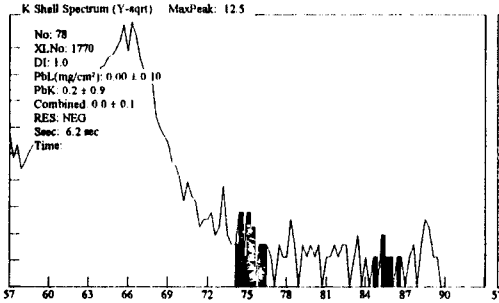

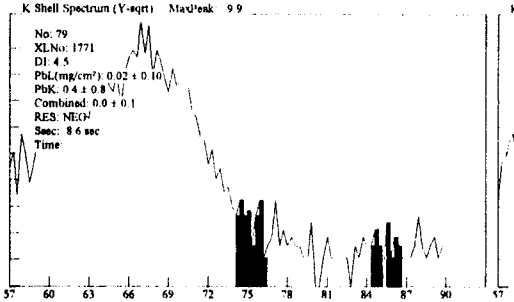

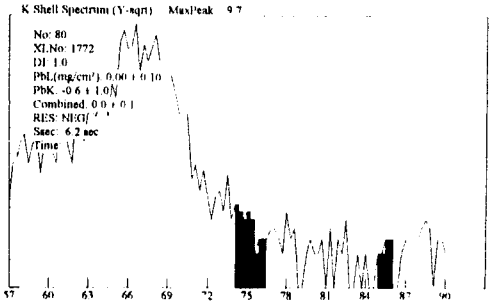

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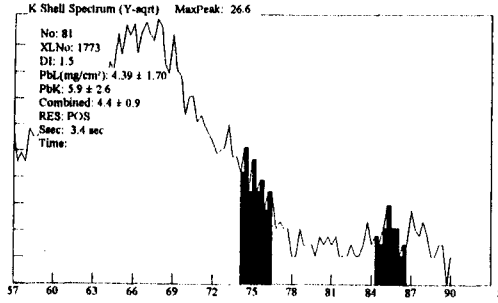

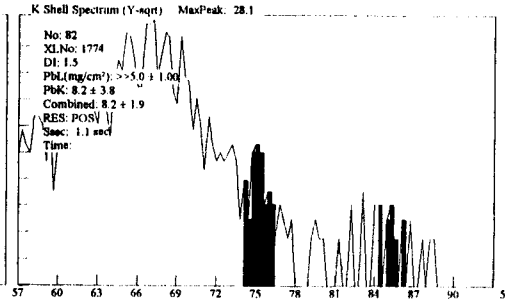

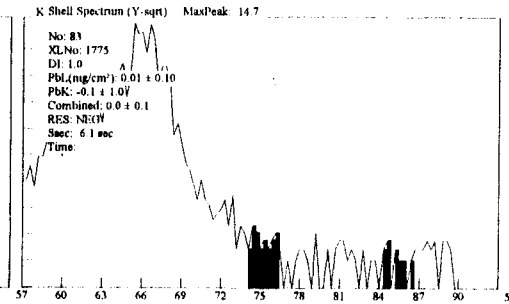

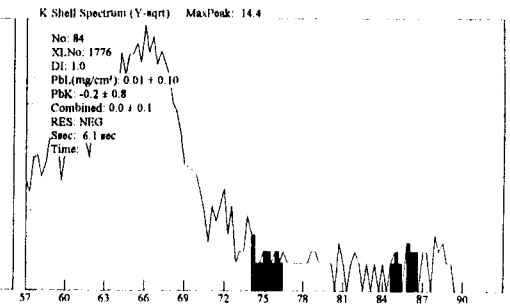

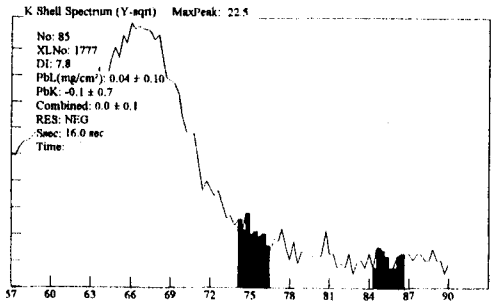

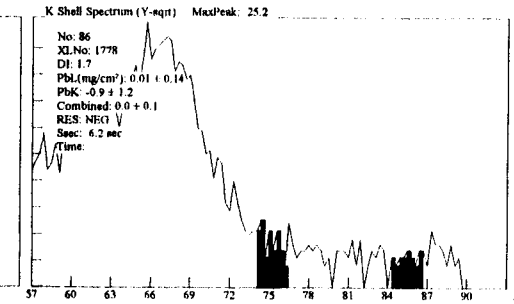

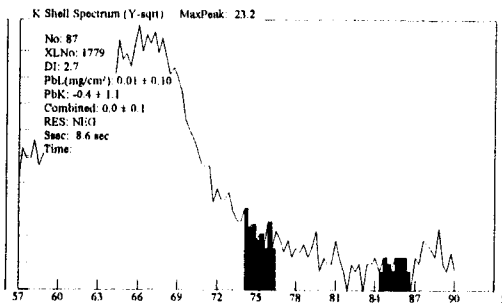

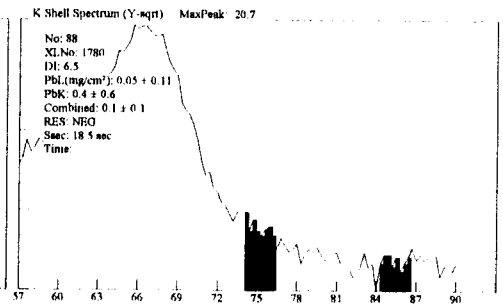

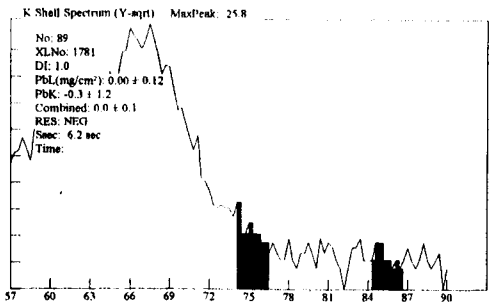

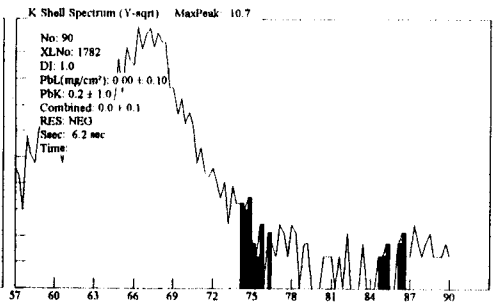

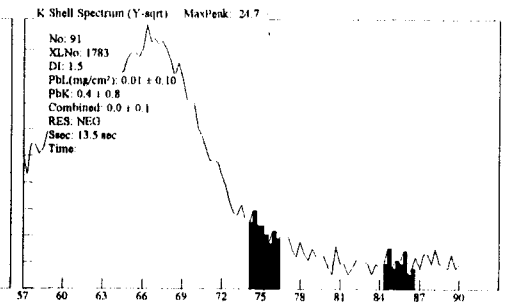

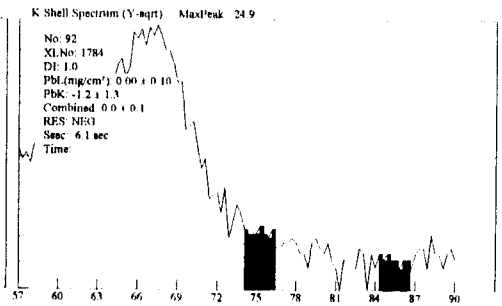

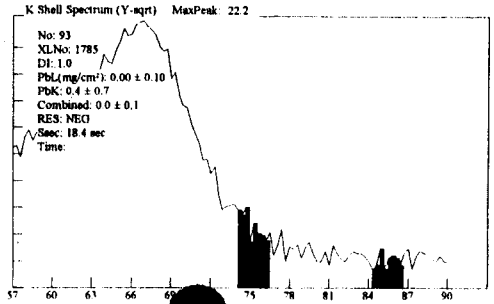

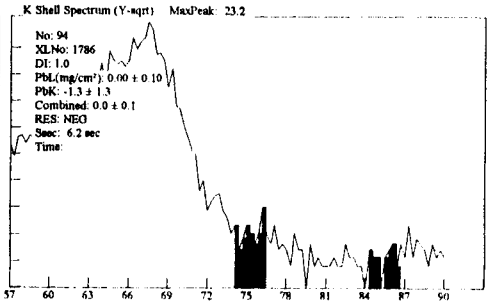

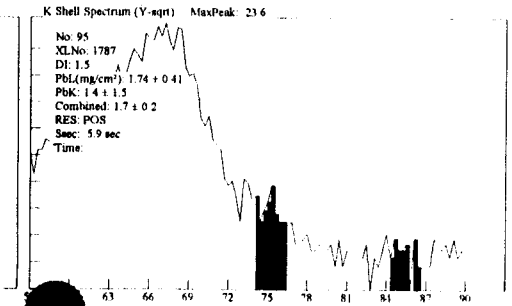

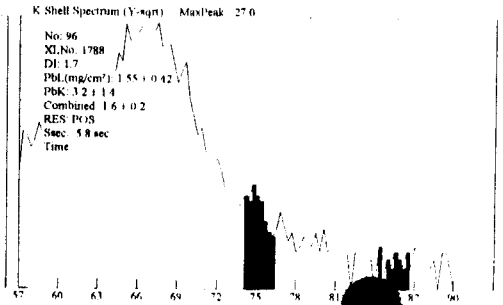

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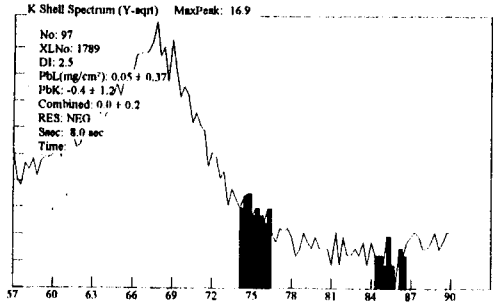

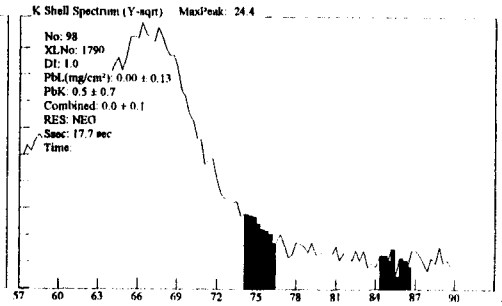

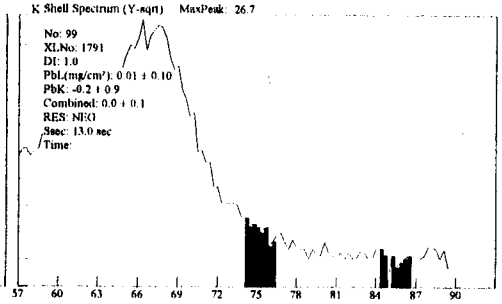

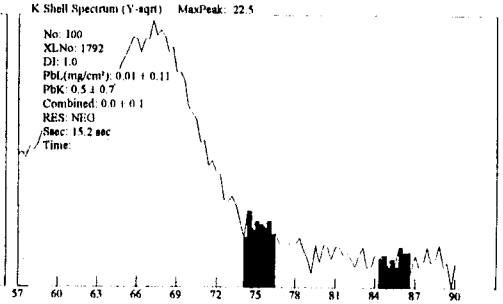

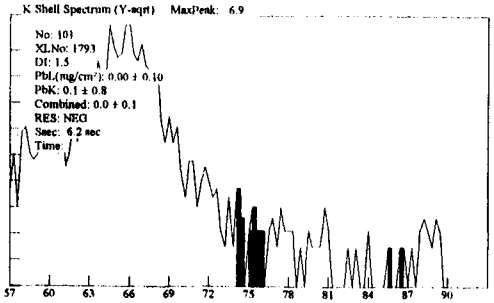

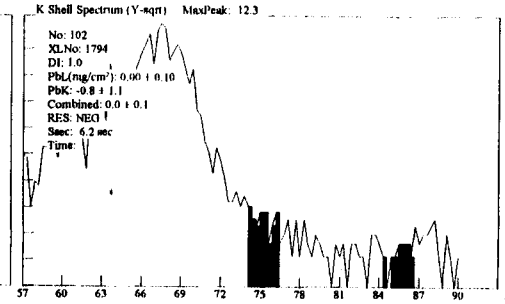

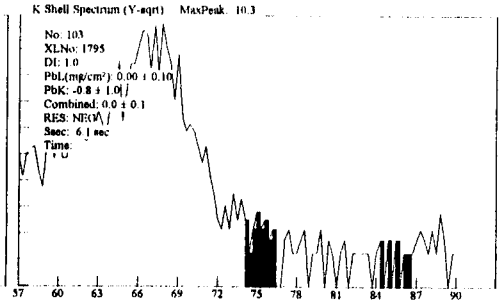

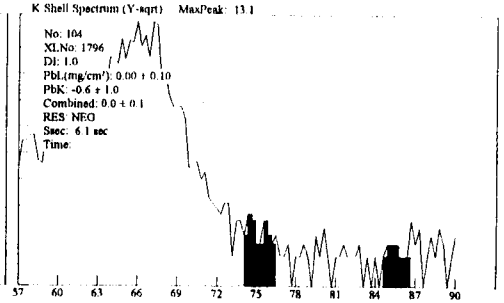

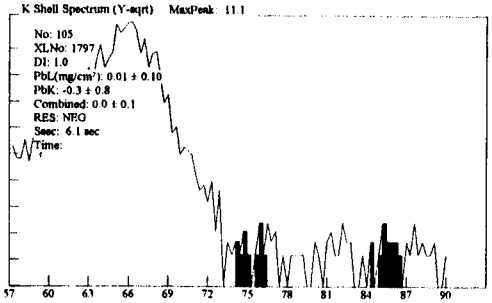

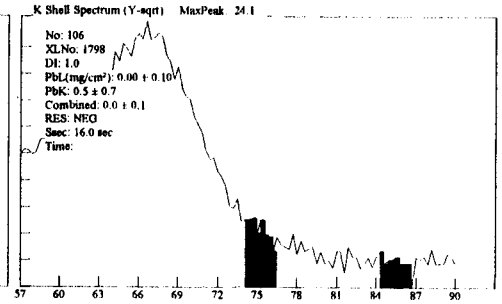

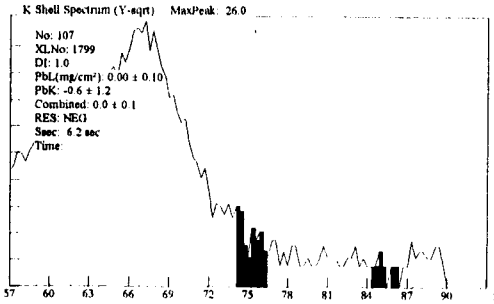

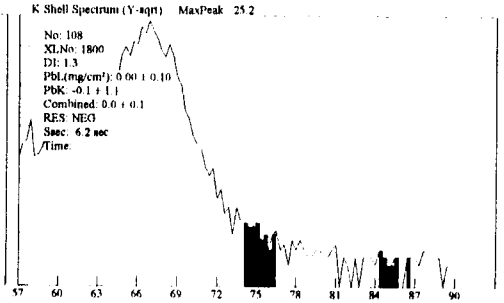

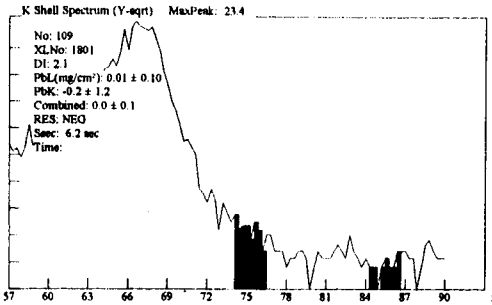

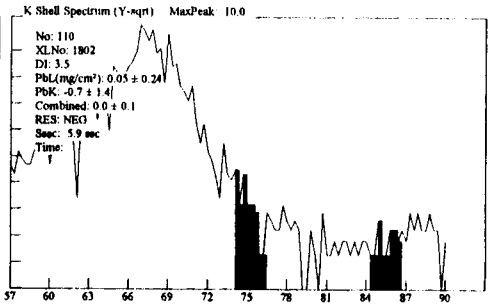

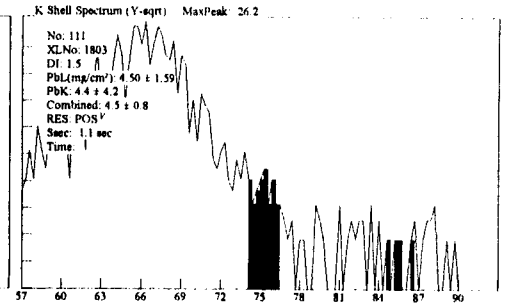

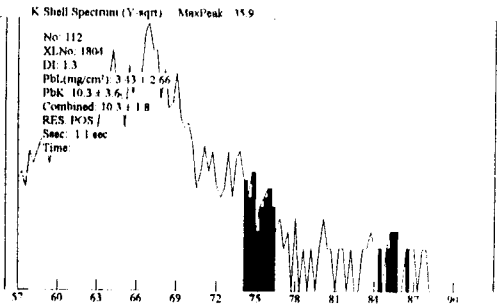

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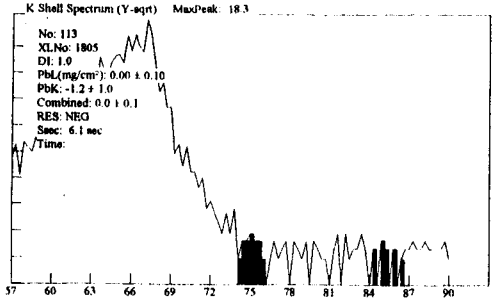

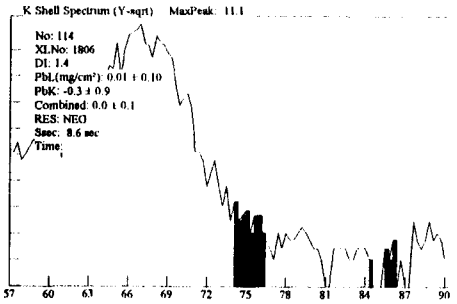

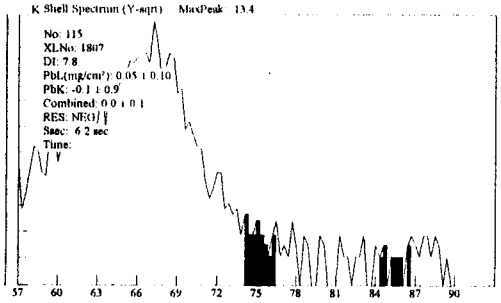

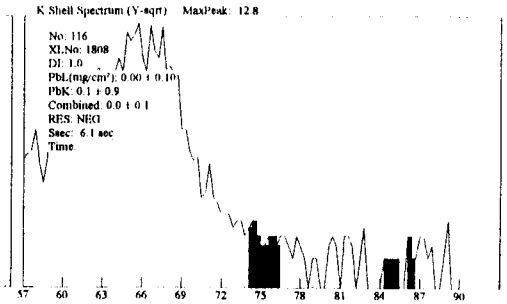

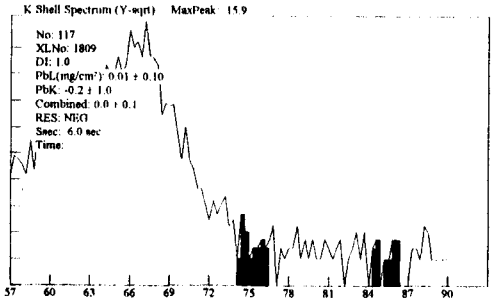

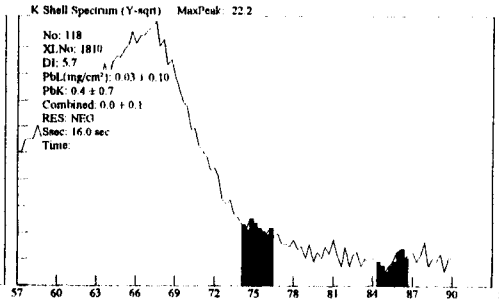

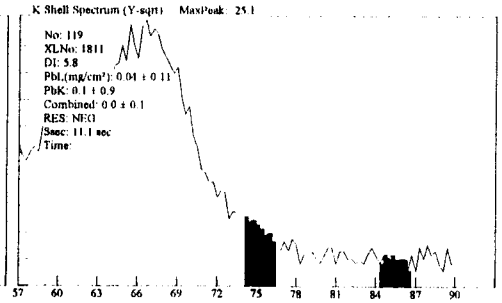

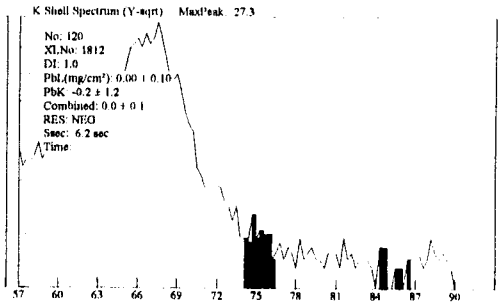

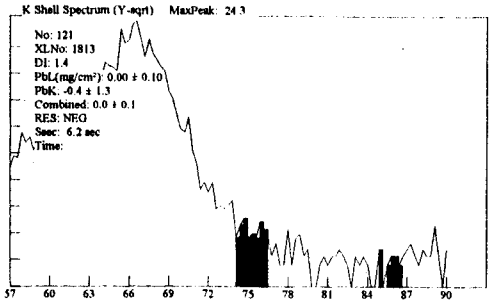

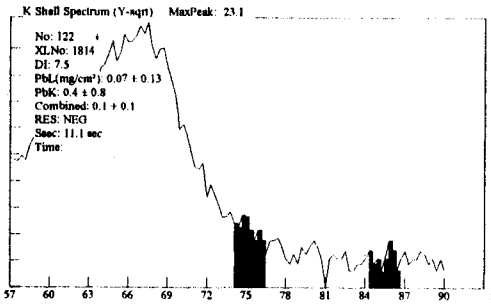

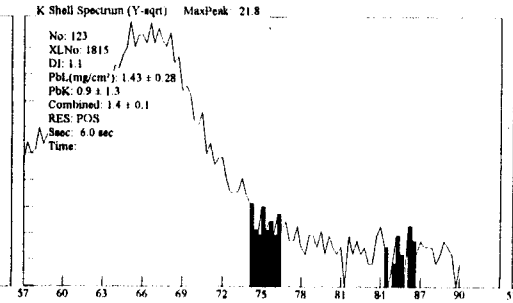

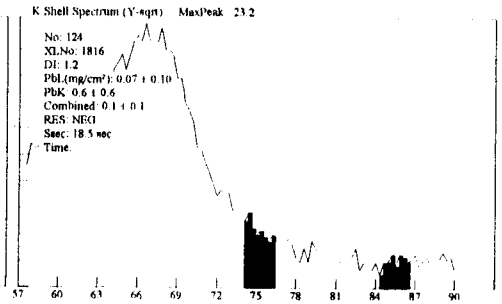

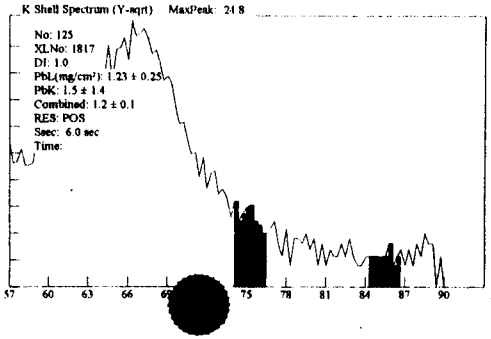

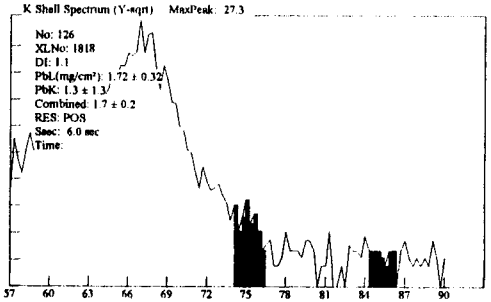

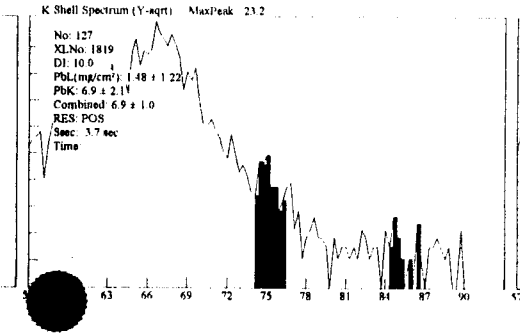

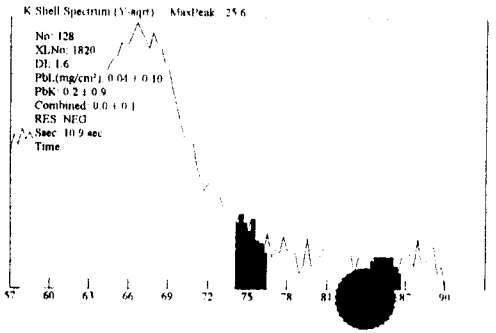

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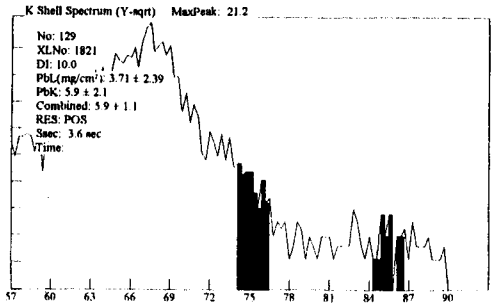

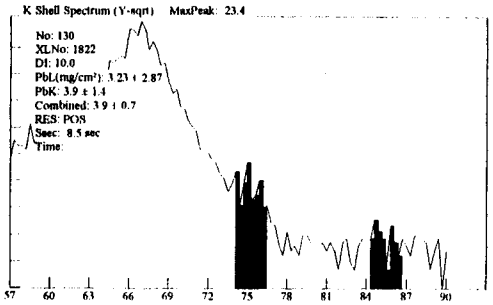

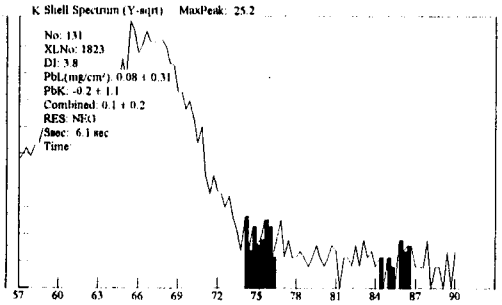

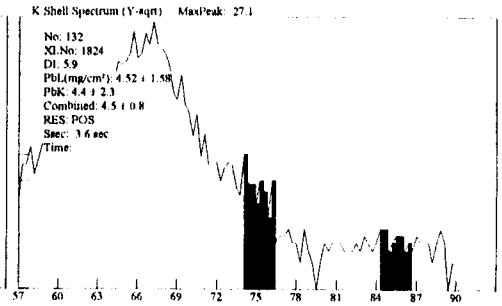

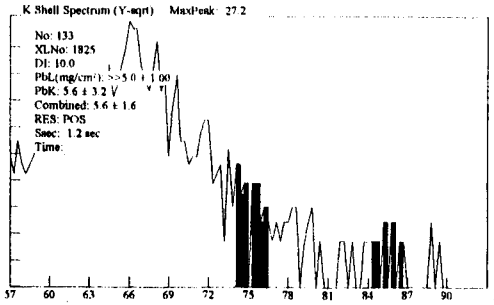

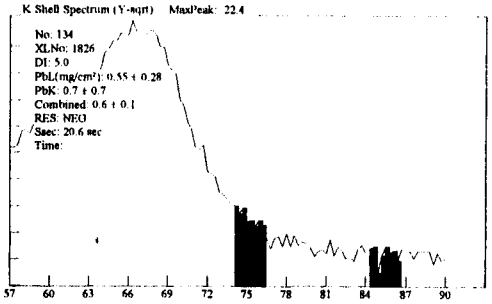

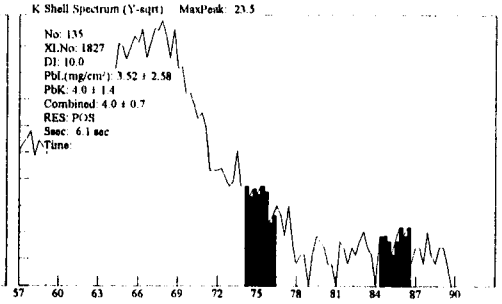

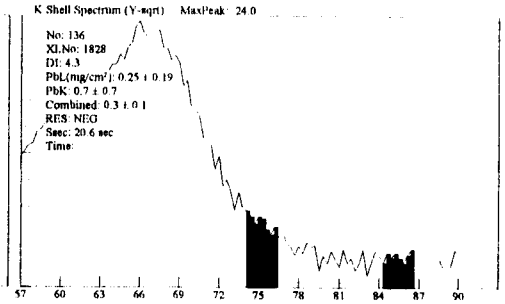

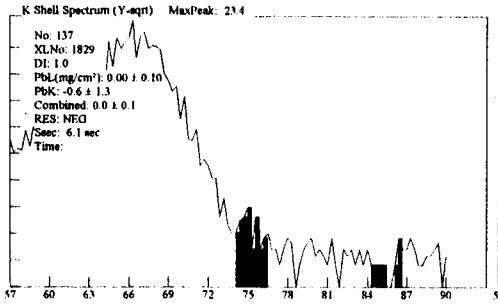

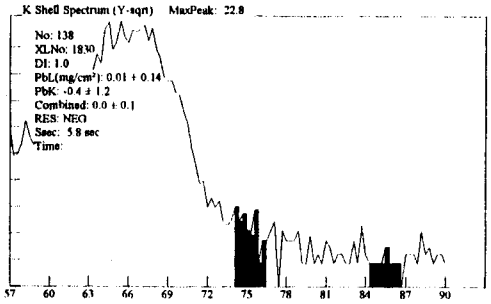

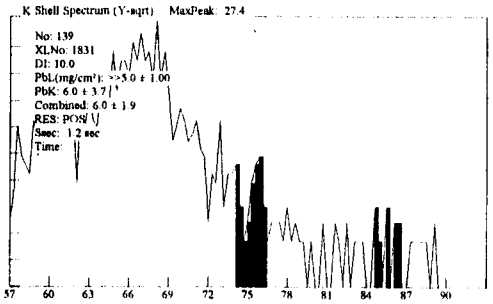

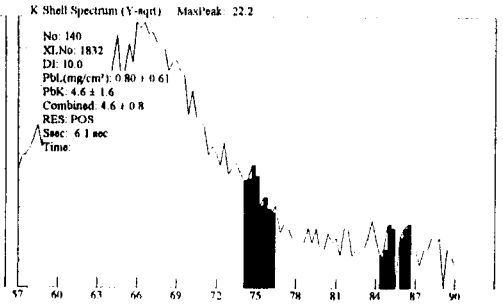

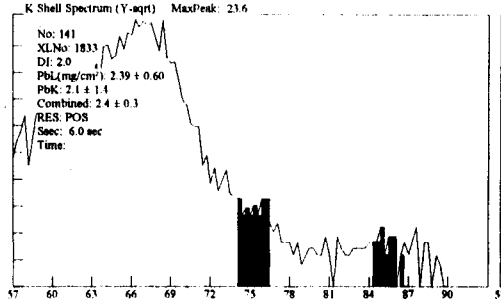

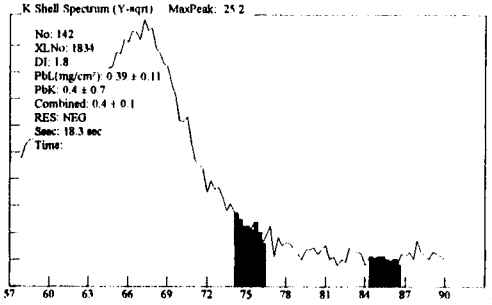

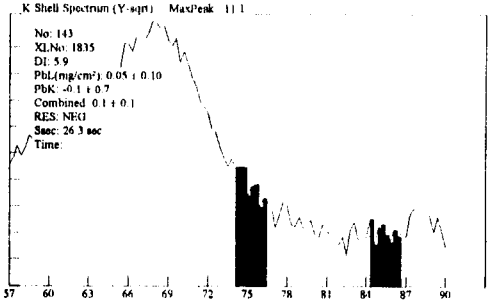

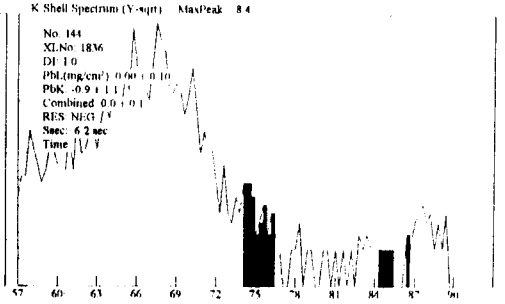

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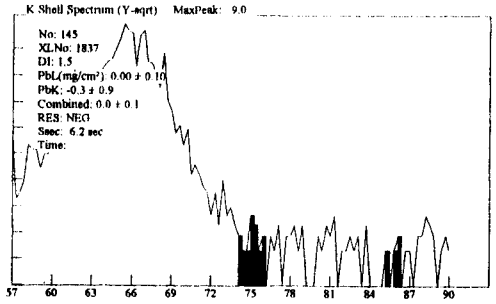

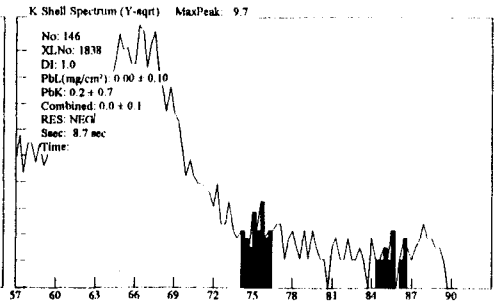

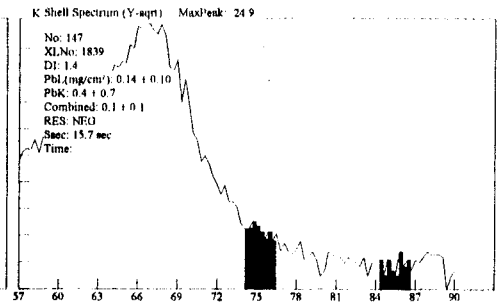

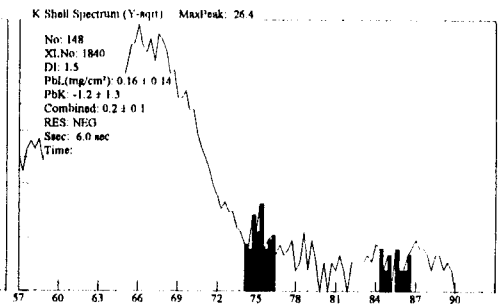

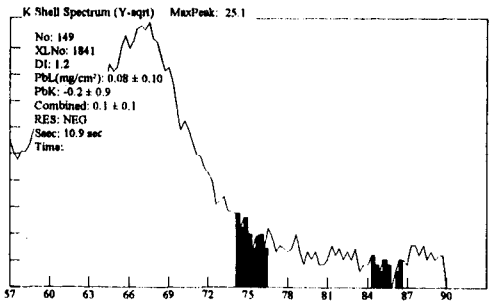

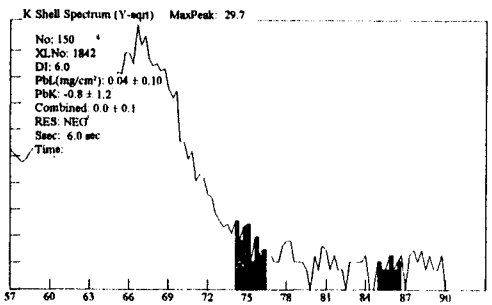

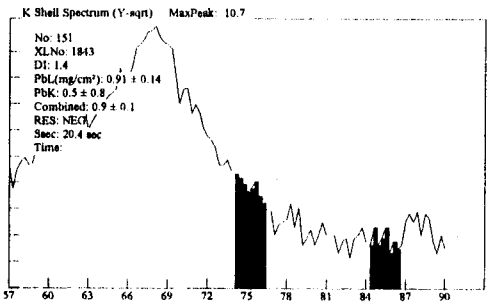

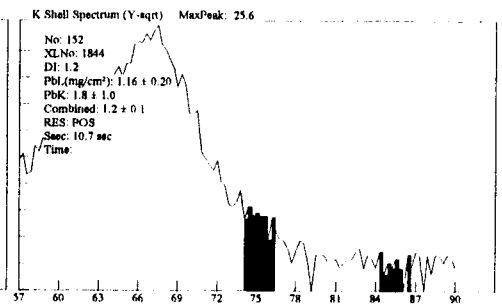

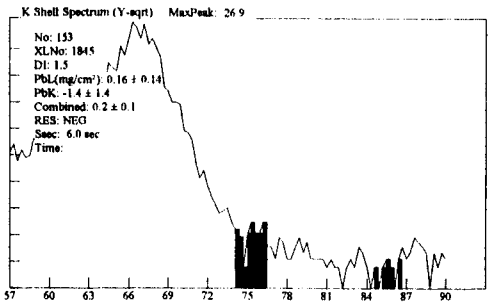

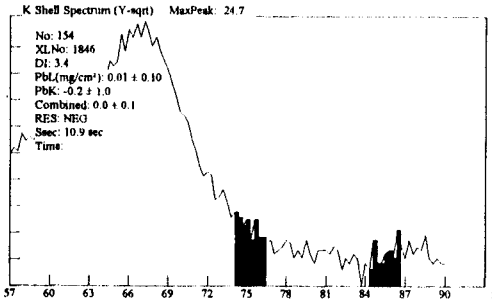

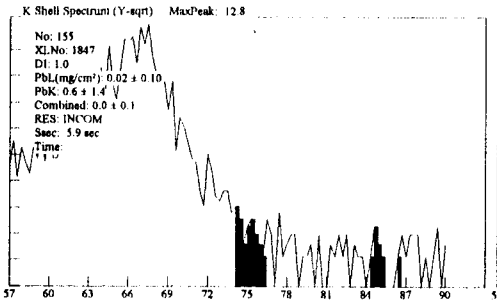

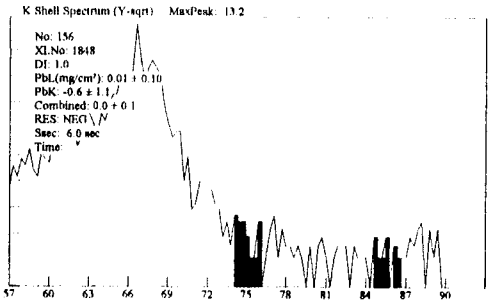

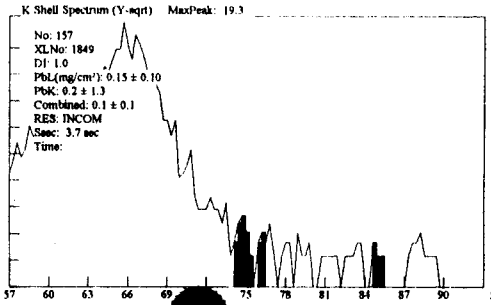

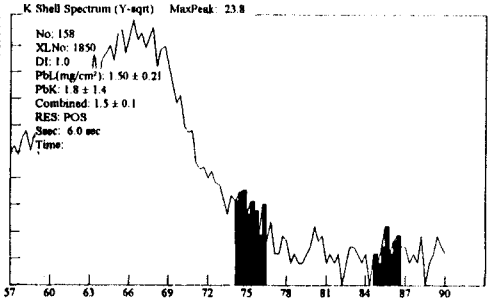

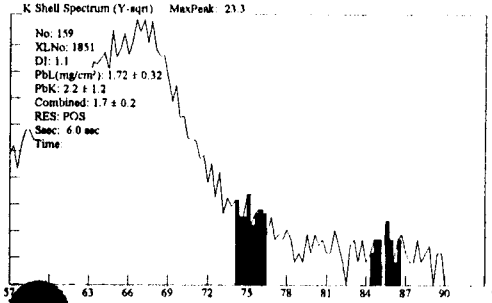

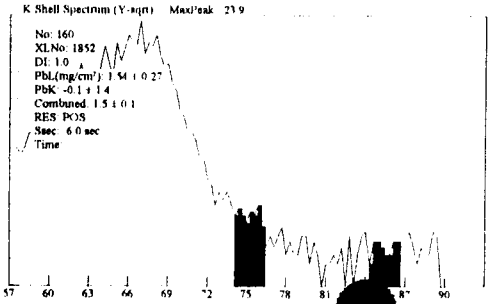

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Serial #XL309-U12673701LY Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	**244**	**1.57 ± 0.30**	**POS**	**0.5 ± 1.2**	**1.6 ± 0.1**	**1.0**	**5.9**	**3/28/100**	**09:52:40**
2	245	0.28 ± 0.12	NEG	0.0 ± 1.0	0.3 ± 0.1	1.1	6.1	3/28/100	10:46:17
3	**246**	**4.61 ± 1.48**	**POS**	**4.7 ± 3.1**	**4.6 ± 0.7**	**1.6**	**1.2**	**3/28/100**	**10:47:28**
4	**247**	**1.12 ± 0.12**	**POS**	**0.5 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.3**	**3/28/100**	**10:48:28**
5	248	0.03 ± 0.11	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.8	8.6	3/28/100	10:51:54
6	249	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.0	3/28/100	10:53:54
7	250	0.02 ± 0.20	NEG	-1.6 ± 1.3	0.0 ± 0.1	2.4	6.1	3/28/100	10:55:02
8	251	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	10:55:41
9	252	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	11.1	3/28/100	10:56:36
10	253	0.03 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	7.1	11.1	3/28/100	10:58:22
11	254	0.86 ± 0.20	NEG	1.0 ± 0.6	0.9 ± 0.1	3.5	28.1	3/28/100	10:59:50
12	255	0.01 ± 0.13	NEG	-0.8 ± 1.4	0.0 ± 0.1	2.2	6.1	3/28/100	11:01:06
13	256	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	11:01:50
14	257	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.0	3/28/100	11:04:08
15	258	0.00 ± 0.10	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.0	6.1	3/28/100	11:04:46
16	259	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	8.6	3/28/100	11:05:16
17	260	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/28/100	11:05:42
18	261	0.05 ± 0.10	NEG	0.4 ± 0.4	0.3 ± 0.2	10.0	50.4	3/28/100	11:06:26
19	262	0.05 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	1.0	6.2	3/28/100	11:08:37
20	263	0.05 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.4	16.0	3/28/100	11:09:35
21	264	0.03 ± 0.10	NEG	0.3 ± 0.9	0.0 ± 0.1	1.0	13.5	3/28/100	11:10:21
22	265	0.05 ± 0.10	NEG	-0.5 ± 1.2	0.1 ± 0.1	1.1	6.1	3/28/100	11:11:01
23	**266**	**3.84 ± 0.71**	**POS**	**5.4 ± 1.8**	**3.8 ± 0.4**	**1.4**	**5.7**	**3/28/100**	**11:11:51**
24	267	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.2	6.2	3/28/100	11:14:41
25	268	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	11:15:39
26	269	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	11:16:04
27	270	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.2	3/28/100	11:18:09

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Paint Page 2

Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	271	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	11:18:46
29	272	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.2	3/28/100	11:19:16
30	273	0.66 ± 0.26	NEG	0.8 ± 0.7	0.7 ± 0.1	5.6	28.2	3/28/100	11:20:31
31	274	0.00 ± 0.10	NEG	-1.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	11:21:56
32	275	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	11:22:56
33	276	0.00 ± 0.10	NEG	-0.7 ± 0.9	0.0 ± 0.1	1.0	6.0	3/28/100	11:23:45
34	**277**	**0.20 ± 0.13**	**POS**	**1.1 ± 0.5**	**1.1 ± 0.2**	**10.0**	**50.5**	**3/28/100**	**11:26:37**
35	278	0.08 ± 0.10	NEG	0.8 ± 0.4	0.8 ± 0.2	10.0	50.5	3/28/100	11:29:09
36	279	0.01 ± 0.13	NEG	-0.3 ± 1.1	0.0 ± 0.1	1.0	8.6	3/28/100	11:31:17
37	**280**	**0.13 ± 0.10**	**POS**	**1.8 ± 0.5**	**1.8 ± 0.2**	**10.0**	**43.1**	**3/28/100**	**11:32:06**
38	281	0.19 ± 0.14	INCOM	1.0 ± 0.6	1.0 ± 0.3	10.0	28.3	3/28/100	11:34:24
39	**282**	**0.21 ± 0.14**	**POS**	**1.2 ± 0.4**	**1.1 ± 0.2**	**10.0**	**50.4**	**3/28/100**	**11:35:28**
40	283	0.04 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	6.7	13.5	3/28/100	11:39:29
41	284	0.05 ± 0.11	NEG	0.3 ± 0.8	0.0 ± 0.1	6.7	11.1	3/28/100	11:40:17
42	**285**	**0.09 ± 0.10**	**POS**	**1.1 ± 0.4**	**1.1 ± 0.2**	**10.0**	**50.5**	**3/28/100**	**11:40:54**
43	**286**	**0.10 ± 0.10**	**POS**	**1.8 ± 0.6**	**1.8 ± 0.3**	**10.0**	**33.2**	**3/28/100**	**11:42:58**
44	**287**	**3.63 ± 0.86**	**POS**	**6.3 ± 2.4**	**3.6 ± 0.4**	**1.3**	**3.4**	**3/28/100**	**11:44:36**
45	288	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	11:45:21
46	289	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	11:46:18
47	290	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	11:47:01
48	291	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	11.1	3/28/100	11:47:26
49	292	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	11.1	3/28/100	11:48:06
50	293	0.03 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	6.4	8.6	3/28/100	11:48:55
51	294	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.0	3/28/100	11:49:59
52	295	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	8.5	3/28/100	11:50:36
53	296	0.02 ± 0.14	NEG	-0.2 ± 1.2	0.0 ± 0.1	3.4	6.1	3/28/100	11:51:14
54	297	0.01 ± 0.12	NEG	0.1 ± 1.0	0.0 ± 0.1	1.1	8.6	3/28/100	11:51:35
55	298	0.04 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	6.4	16.0	3/28/100	11:52:07

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	299	0.01 ± 0.15	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.5	6.2	3/28/100	11:52:56
57	300	0.25 ± 0.39	NEG	0.0 ± 0.9	0.3 ± 0.2	7.0	11.0	3/28/100	11:53:42
58	301	0.26 ± 0.18	NEG	0.0 ± 0.8	0.3 ± 0.1	3.9	16.0	3/28/100	11:54:48
59	302	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	11.1	3/28/100	11:55:34
60	303	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	16.0	3/28/100	11:56:06
61	304	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	11:56:50
62	305	0.01 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.0	3/28/100	11:58:02
63	306	0.00 ± 0.10	NEG	-1.0 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	11:59:11
64	**307**	**>>5.0 ± 1.00**	**POS**	**4.5 ± 4.6**	**4.5 ± 2.3**	**1.6**	**1.1**	**3/28/100**	**11:59:51**
65	308	0.06 ± 0.10	NEG	-0.7 ± 0.6	-0.7 ± 0.3	10.0	23.4	3/28/100	12:01:54
66	309	0.01 ± 0.15	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.4	8.6	3/28/100	12:03:19
67	**310**	**4.21 ± 1.88**	**POS**	**8.6 ± 3.5**	**8.6 ± 1.7**	**1.5**	**1.1**	**3/28/100**	**12:03:48**
68	311	0.04 ± 0.10	NEG	0.3 ± 0.9	0.0 ± 0.1	1.2	13.5	3/28/100	12:04:01
69	312	0.09 ± 0.10	NEG	-0.3 ± 1.0	0.1 ± 0.1	1.7	8.6	3/28/100	12:04:38
70	313	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	12:05:44
71	314	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	2.4	6.1	3/28/100	12:06:10
72	315	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	13.5	3/28/100	12:07:25
73	316	0.04 ± 0.10	NEG	0.5 ± 0.4	0.5 ± 0.2	10.0	50.4	3/28/100	12:08:07
74	317	0.01 ± 0.10	NEG	0.9 ± 0.5	0.0 ± 0.1	2.2	28.3	3/28/100	12:11:19
75	318	0.07 ± 0.10	NEG	0.1 ± 0.5	0.1 ± 0.3	10.0	35.7	3/28/100	12:12:25
76	**319**	**1.76 ± 0.43**	**POS**	**1.9 ± 1.3**	**1.8 ± 0.2**	**1.6**	**5.9**	**3/28/100**	**12:14:02**
77	**320**	**2.12 ± 0.50**	**POS**	**2.7 ± 1.4**	**2.1 ± 0.3**	**1.6**	**5.8**	**3/28/100**	**12:14:59**
78	**321**	**2.23 ± 0.54**	**POS**	**1.8 ± 1.4**	**2.2 ± 0.3**	**1.7**	**5.9**	**3/28/100**	**12:15:38**
79	**322**	**1.30 ± 0.26**	**POS**	**2.7 ± 1.1**	**1.3 ± 0.1**	**1.5**	**10.4**	**3/28/100**	**12:16:43**
80	323	0.02 ± 0.22	NEG	0.0 ± 0.9	0.0 ± 0.1	2.0	10.6	3/28/100	12:17:32
81	324	0.06 ± 0.15	NEG	0.7 ± 0.5	0.1 ± 0.1	5.8	31.5	3/28/100	12:18:11
82	325	0.05 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	7.0	15.2	3/28/100	12:19:44
83	326	0.01 ± 0.19	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	10.6	3/28/100	12:20:44

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	**327**	**0.76 ± 0.41**	**POS**	**8.7 ± 2.4**	**8.7 ± 1.2**	**1.9**	**3.6**	**3/28/100**	**12:21:53**
85	328	0.02 ± 0.10	NEG	0.4 ± 0.6	0.0 ± 0.1	6.0	20.9	3/28/100	12:25:01
86	329	0.00 ± 0.10	NEG	-0.8 ± 1.2	0.0 ± 0.1	1.0	6.1	3/28/100	12:25:51
87	330	0.02 ± 0.10	NEG	0.5 ± 0.6	0.0 ± 0.1	4.0	20.9	3/28/100	12:26:28
88	331	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	3/28/100	12:27:30
89	332	0.00 ± 0.10	NEG	-1.6 ± 1.0	0.0 ± 0.1	1.0	6.2	3/28/100	12:28:43
90	333	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	12:29:06
91	**334**	**>>5.0 ± 1.00**	**POS**	**6.9 ± 3.9**	**6.9 ± 1.9**	**1.6**	**1.1**	**3/28/100**	**12:31:45**
92	335	0.01 ± 0.11	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	8.6	3/28/100	12:32:11
93	336	0.18 ± 0.13	NEG	0.9 ± 0.6	0.2 ± 0.1	3.8	23.4	3/28/100	12:32:43
94	337	0.24 ± 0.19	NEG	0.9 ± 0.7	0.2 ± 0.1	4.8	20.9	3/28/100	12:33:42
95	338	0.14 ± 0.17	NEG	0.3 ± 0.8	0.1 ± 0.1	3.1	11.1	3/28/100	12:34:31
96	339	0.00 ± 0.10	NEG	-0.3 ± 1.2	0.0 ± 0.1	1.1	6.2	3/28/100	12:35:00
97	340	0.01 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	12:35:29
98	341	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.0	3/28/100	12:36:01
99	342	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	12:36:41
100	343	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.0	3/28/100	12:37:03
101	344	0.01 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	2.4	13.5	3/28/100	12:38:08
102	345	0.01 ± 0.10	NEG	-0.9 ± 1.2	0.0 ± 0.1	2.8	6.1	3/28/100	12:39:04
103	346	0.01 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	2.6	6.2	3/28/100	12:39:51
104	347	0.04 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	6.2	18.4	3/28/100	12:40:11
105	**348**	**0.85 ± 0.41**	**POS**	**3.0 ± 1.1**	**3.0 ± 0.6**	**3.1**	**8.2**	**3/28/100**	**12:41:08**
106	**349**	**0.95 ± 0.20**	**POS**	**1.8 ± 0.6**	**1.0 ± 0.1**	**3.4**	**34.1**	**3/28/100**	**12:41:45**
107	**350**	**0.84 ± 0.15**	**POS**	**1.3 ± 0.5**	**1.3 ± 0.2**	**3.3**	**50.7**	**3/28/100**	**12:43:16**
108	351	0.90 ± 0.22	NEG	0.9 ± 0.7	0.9 ± 0.1	3.2	24.7	3/28/100	12:45:30
109	**352**	**0.99 ± 0.30**	**POS**	**2.1 ± 0.8**	**1.0 ± 0.1**	**3.7**	**20.0**	**3/28/100**	**12:46:45**
110	353	0.08 ± 0.19	NEG	0.9 ± 0.6	0.1 ± 0.1	2.8	21.8	3/28/100	12:49:20
111	354	0.01 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	2.0	6.1	3/28/100	12:50:38

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
112	355	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	12:50:56
113	356	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	13.5	3/28/100	12:51:36
114	357	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	16.0	3/28/100	12:52:22
115	**358**	**0.26 ± 0.19**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**10.0**	**20.9**	**3/28/100**	**12:53:20**
116	359	0.01 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	2.2	18.4	3/28/100	12:54:23
117	**360**	**0.25 ± 0.18**	**POS**	**1.9 ± 0.7**	**1.9 ± 0.3**	**10.0**	**23.4**	**3/28/100**	**12:55:27**
118	361	0.01 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	2.9	16.0	3/28/100	12:56:29
119	**362**	**0.48 ± 0.33**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.4**	**10.0**	**20.9**	**3/28/100**	**12:57:40**
120	363	0.00 ± 0.10	NEG	-0.3 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	12:58:58
121	364	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	6.0	3/28/100	12:59:21
122	**365**	**0.97 ± 0.68**	**POS**	**3.1 ± 1.1**	**3.1 ± 0.5**	**10.0**	**11.1**	**3/28/100**	**12:59:43**
123	**366**	**1.83 ± 1.30**	**POS**	**5.6 ± 1.8**	**5.6 ± 0.9**	**4.6**	**3.7**	**3/28/100**	**13:00:13**
124	367	0.00 ± 0.10	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.1	6.2	3/28/100	13:00:29
125	**368**	**0.81 ± 0.52**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**10.0**	**28.3**	**3/28/100**	**13:01:10**
126	369	0.04 ± 0.13	NEG	0.2 ± 0.9	0.0 ± 0.1	1.5	12.6	3/28/100	13:02:26
127	**370**	**4.23 ± 1.87**	**POS**	**6.7 ± 2.2**	**6.7 ± 1.1**	**1.4**	**3.4**	**3/28/100**	**13:03:23**
128	**371**	**>>5.0 ± 1.00**	**POS**	**9.9 ± 3.9**	**9.9 ± 1.9**	**1.7**	**1.1**	**3/28/100**	**13:03:50**
129	372	0.01 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	3.0	8.7	3/28/100	13:04:32
130	373	0.03 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	7.7	11.1	3/28/100	13:05:19
131	**374**	**3.75 ± 2.35**	**POS**	**3.7 ± 1.5**	**3.7 ± 0.8**	**10.0**	**6.0**	**3/28/100**	**13:06:20**
132	375	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/28/100	14:11:59
133	**376**	**1.62 ± 0.31**	**POS**	**1.0 ± 1.1**	**1.6 ± 0.2**	**1.1**	**6.0**	**3/28/100**	**14:12:32**
134	**377**	**1.07 ± 0.11**	**POS**	**0.8 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.4**	**3/28/100**	**14:13:34**
135	378	0.31 ± 0.10	NEG	-0.1 ± 1.1	0.3 ± 0.1	1.0	6.1	3/28/100	14:14:31
136	379	0.01 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	14:18:04
137	380	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	14:19:36
138	381	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	14:20:09
139	382	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	14:20:48

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
140	383	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	6.1	3/28/100	14:21:19
141	384	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	14:22:34
142	385	0.01 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	14:22:57
143	386	0.00 ± 0.10	INCOM	0.9 ± 0.6	0.0 ± 0.1	1.0	6.2	3/28/100	14:23:20
144	387	0.01 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	14:24:01
145	388	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	8.5	3/28/100	14:24:32
146	389	0.01 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	8.6	3/28/100	14:25:22
147	390	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	14:25:54
148	391	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	8.6	3/28/100	14:26:54
149	392	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	14:27:43
150	**393**	**3.45 ± 2.65**	**POS**	**5.4 ± 2.0**	**5.4 ± 1.0**	**10.0**	**3.7**	**3/28/100**	**14:28:32**
151	**394**	**4.41 ± 1.69**	**POS**	**7.8 ± 3.5**	**7.8 ± 1.8**	**10.0**	**1.2**	**3/28/100**	**14:28:57**
152	**395**	**>>5.0 ± 1.00**	**POS**	**2.7 ± 2.2**	**2.7 ± 1.1**	**6.3**	**3.6**	**3/28/100**	**14:29:41**
153	**396**	**3.62 ± 2.48**	**POS**	**4.7 ± 1.5**	**4.7 ± 0.7**	**10.0**	**6.1**	**3/28/100**	**14:30:33**
154	397	0.39 ± 0.24	NEG	0.6 ± 0.7	0.4 ± 0.1	4.9	20.7	3/28/100	14:32:49
155	398	0.07 ± 0.14	NEG	-0.1 ± 1.0	0.1 ± 0.1	7.2	8.5	3/28/100	14:34:20
156	399	0.41 ± 0.19	NEG	-0.1 ± 0.7	0.4 ± 0.1	3.7	20.7	3/28/100	14:35:31
157	**400**	**1.86 ± 0.85**	**POS**	**2.7 ± 0.9**	**2.7 ± 0.5**	**7.1**	**13.3**	**3/28/100**	**14:36:48**
158	401	0.29 ± 0.35	NEG	0.4 ± 0.8	0.3 ± 0.2	7.9	13.3	3/28/100	14:38:20

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Site: Ranges (NEG<INC<POS): Device PCS

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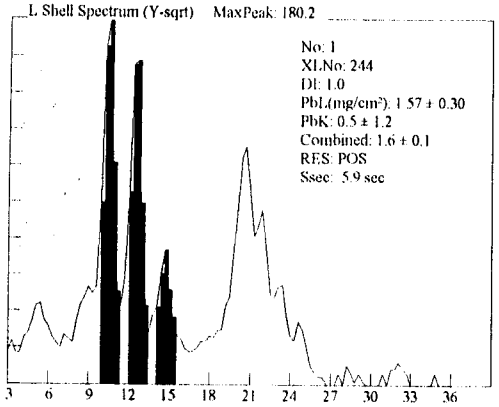

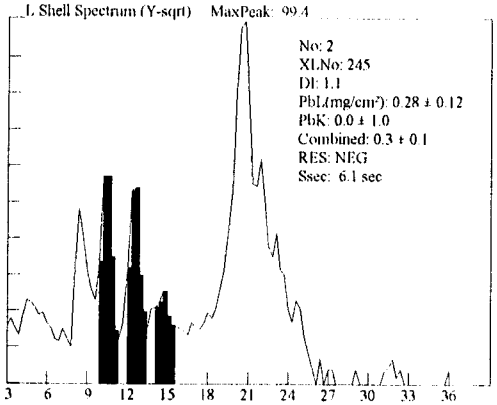

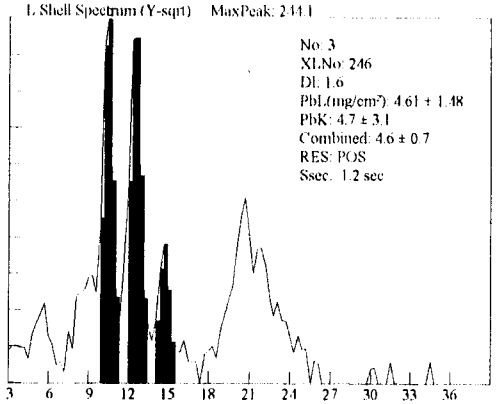

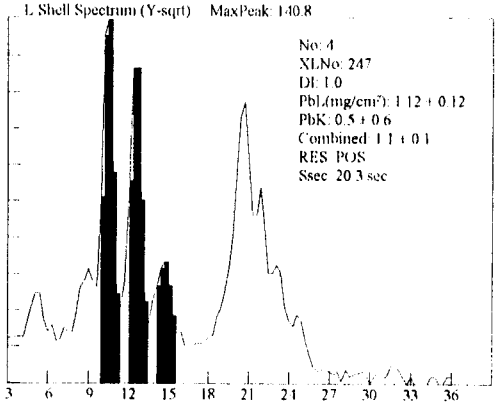

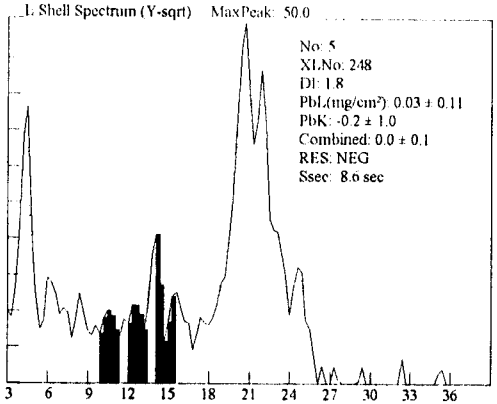

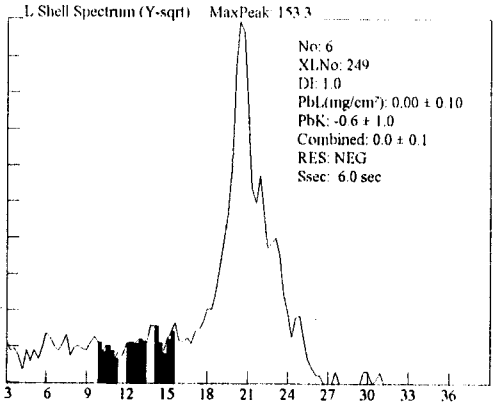

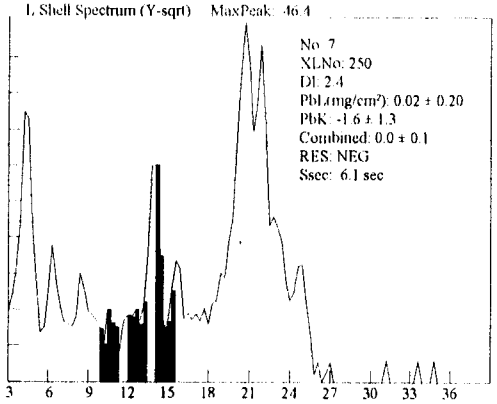

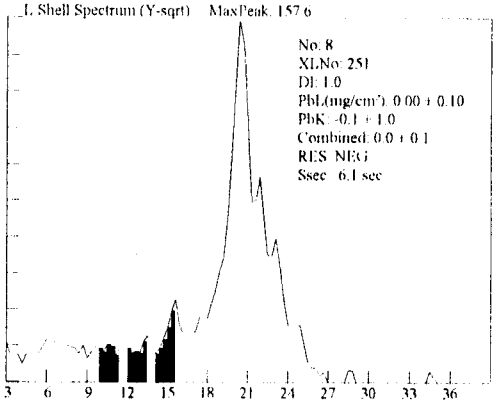

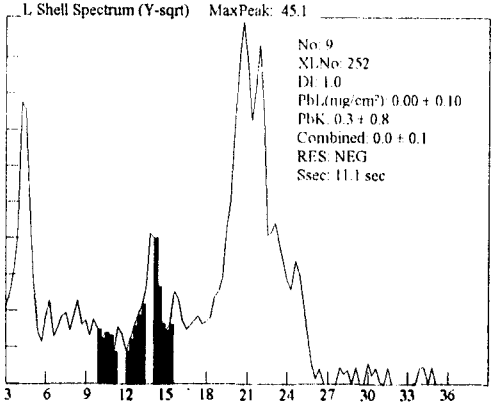

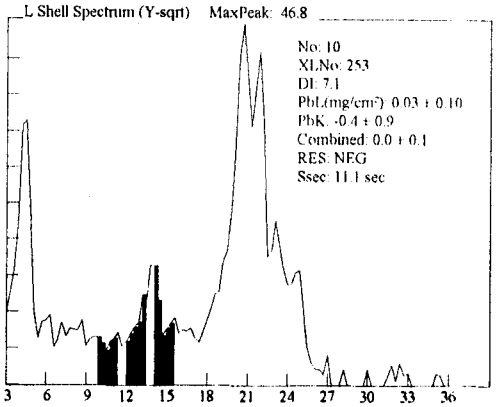

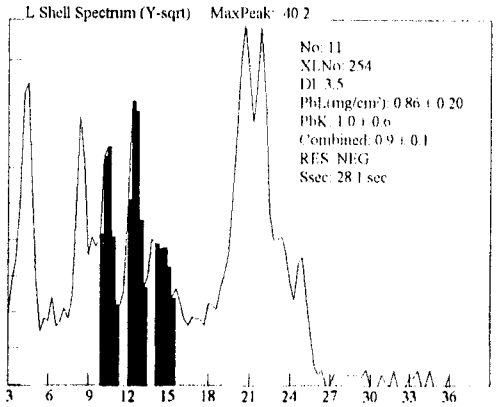

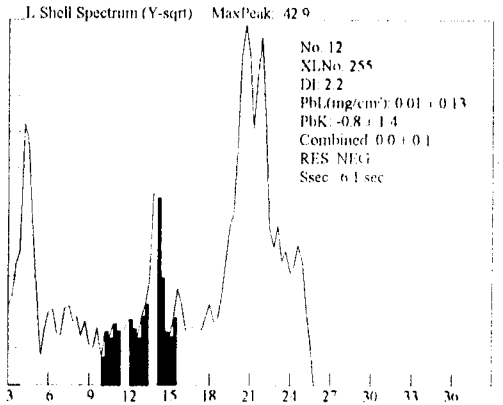

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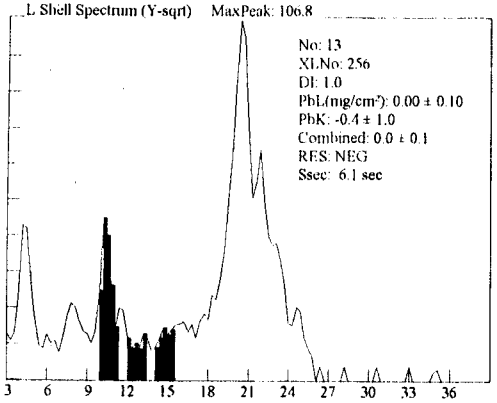

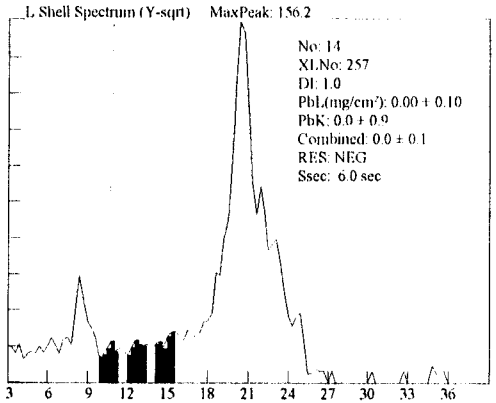

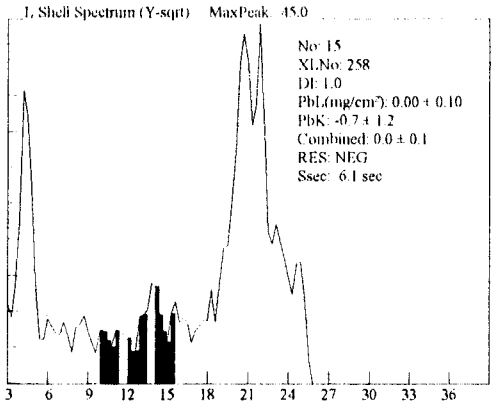

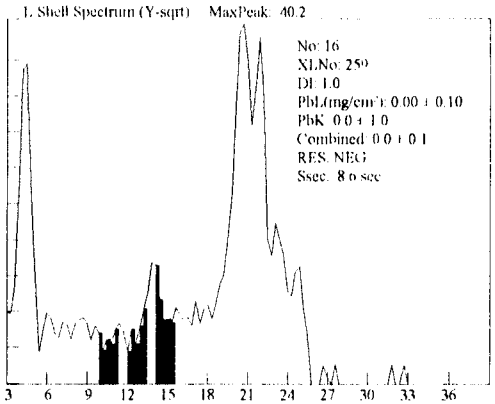

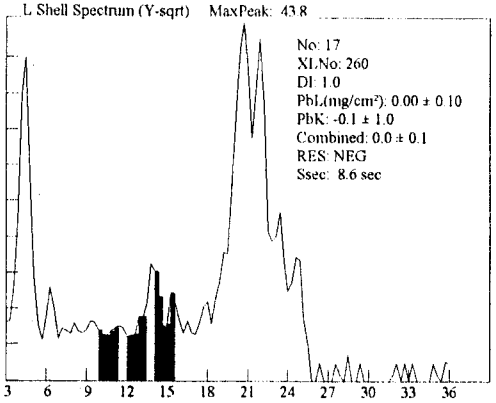

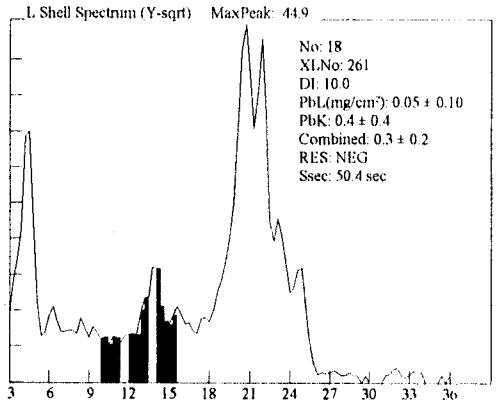

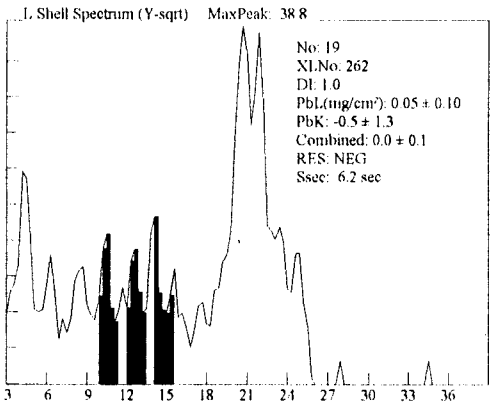

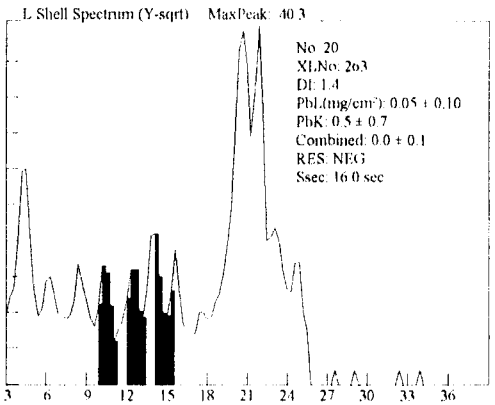

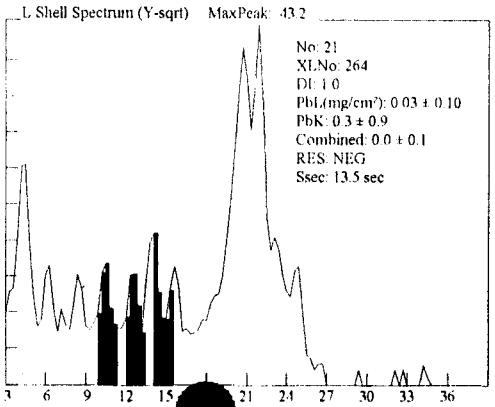

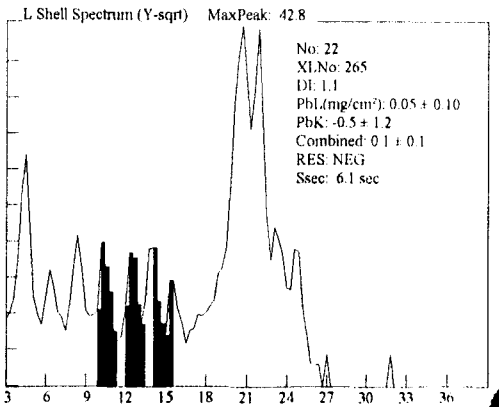

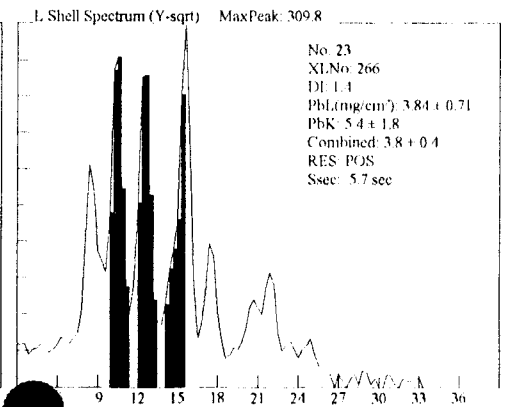

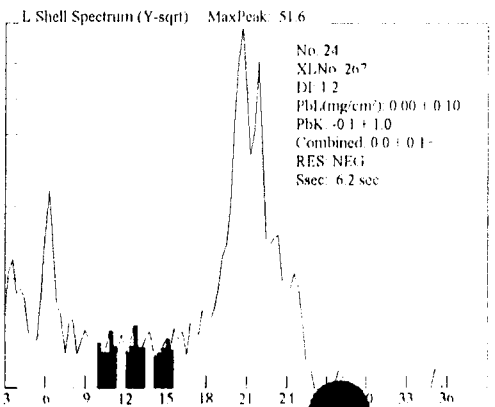

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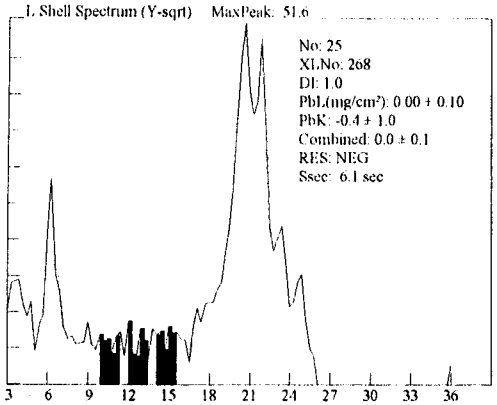

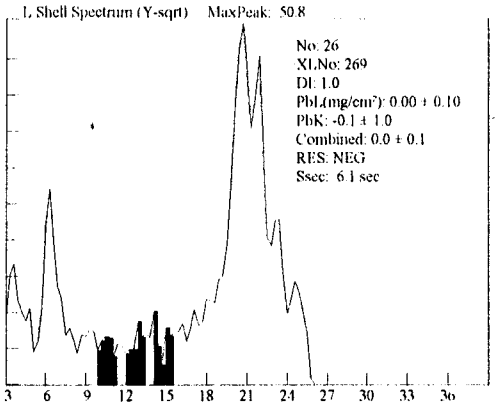

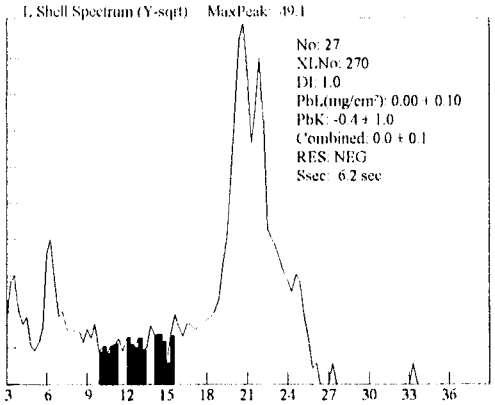

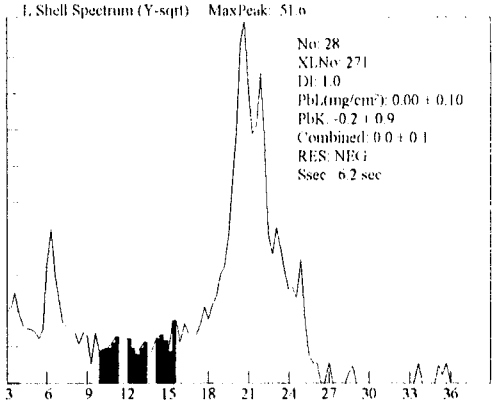

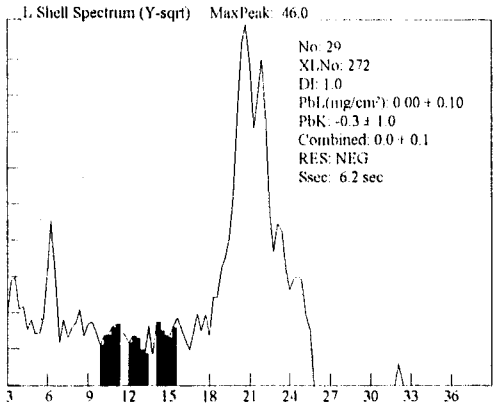

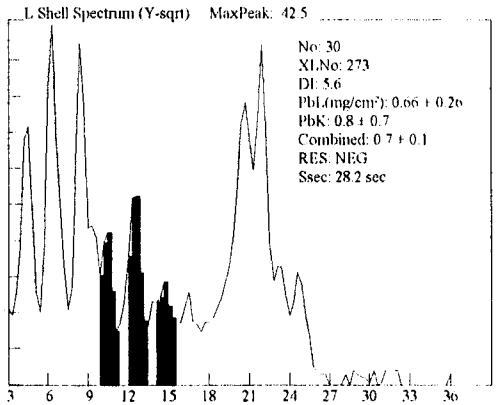

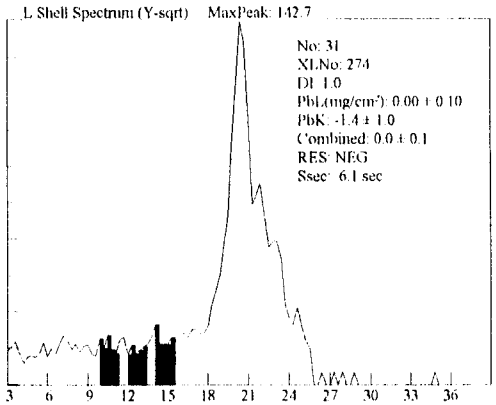

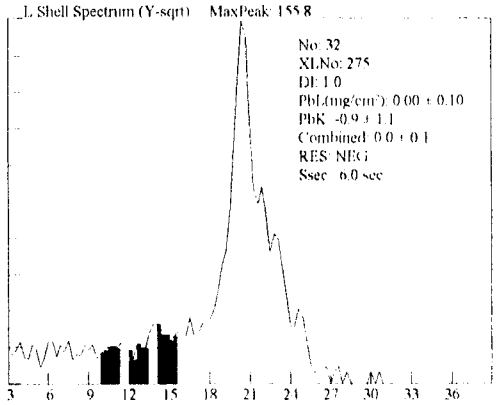

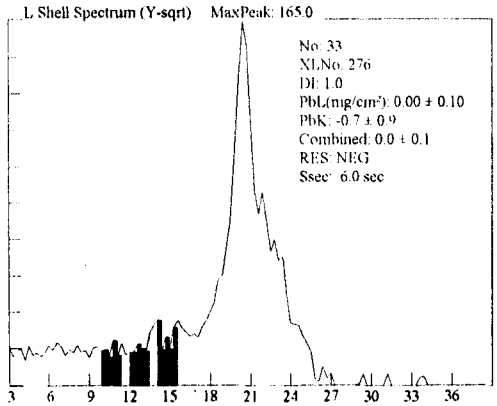

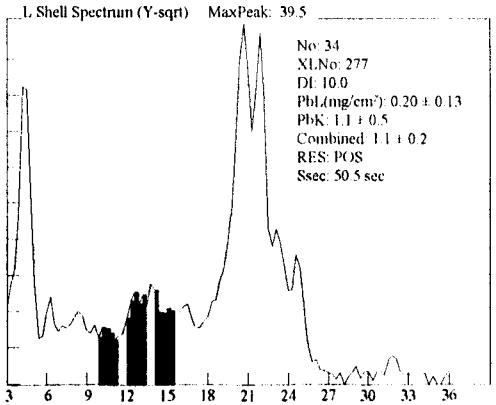

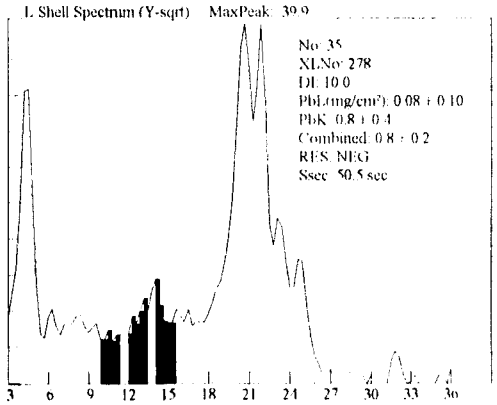

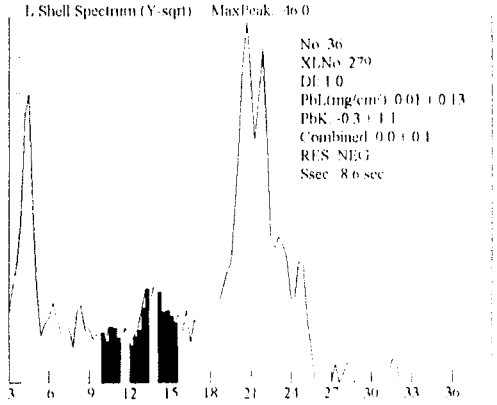

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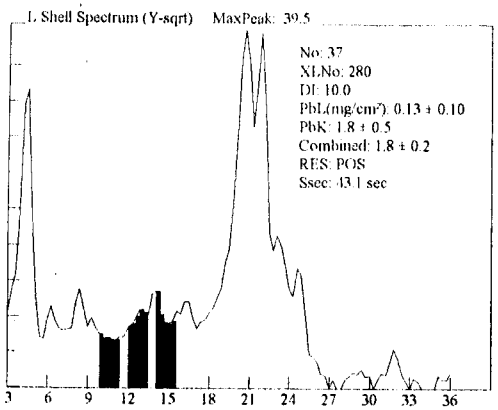

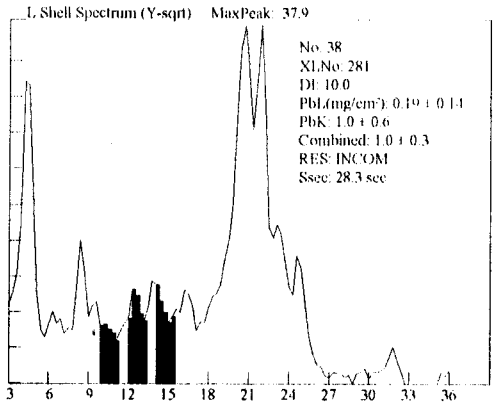

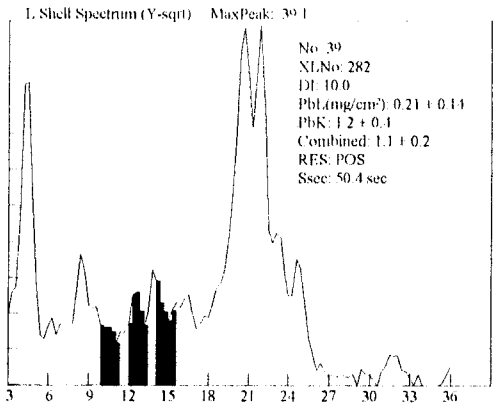

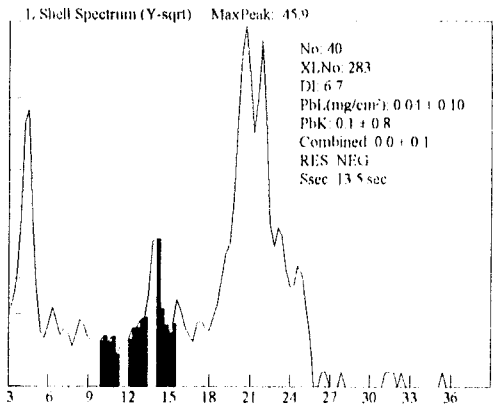

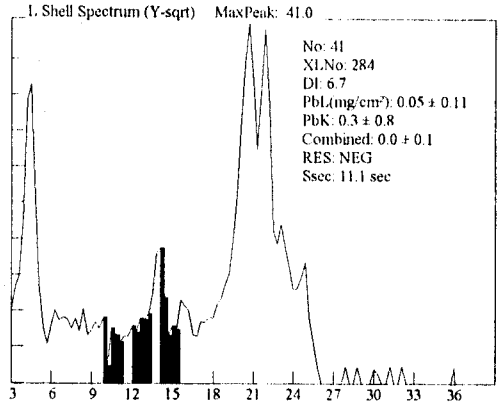

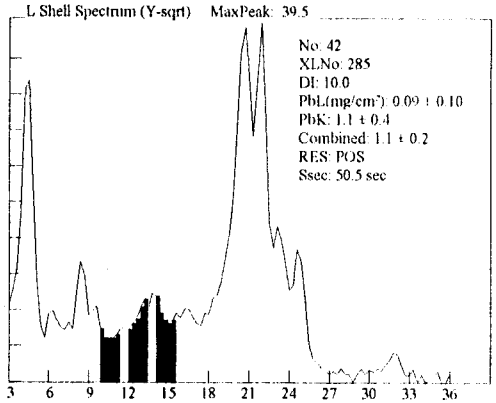

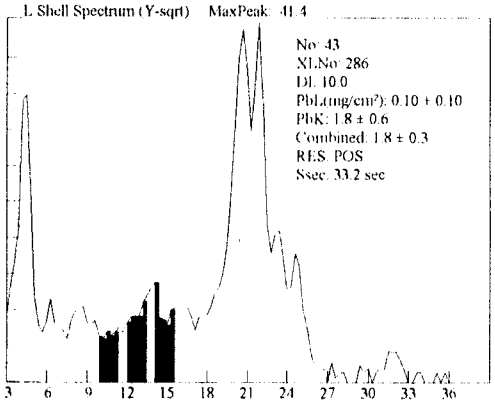

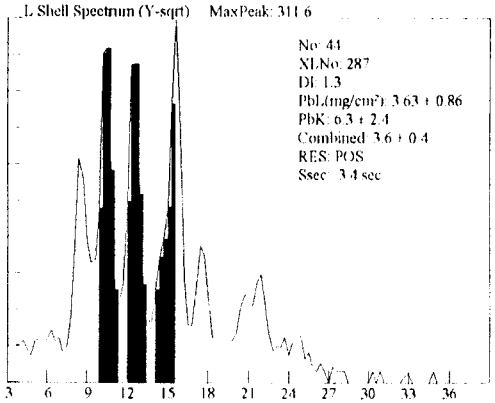

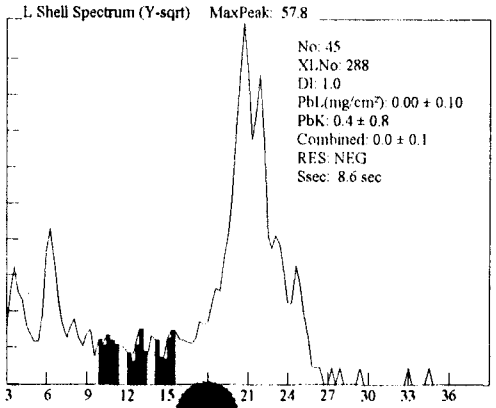

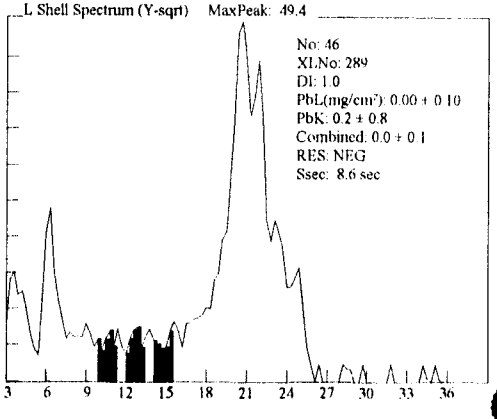

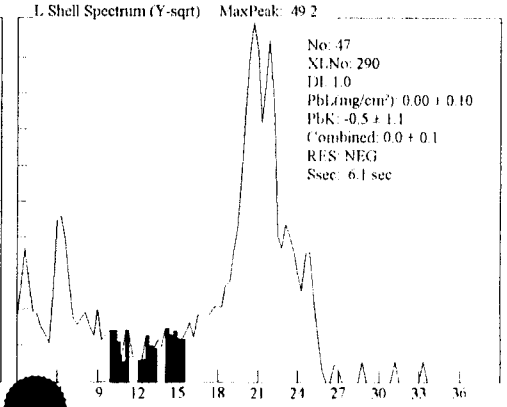

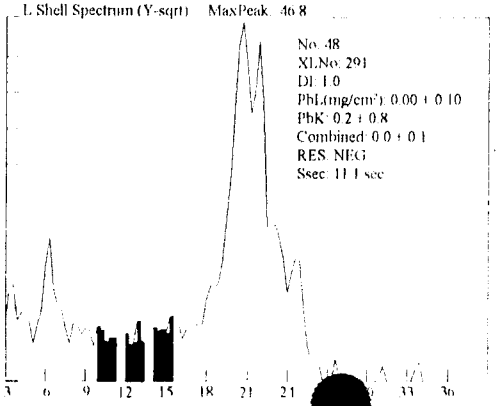

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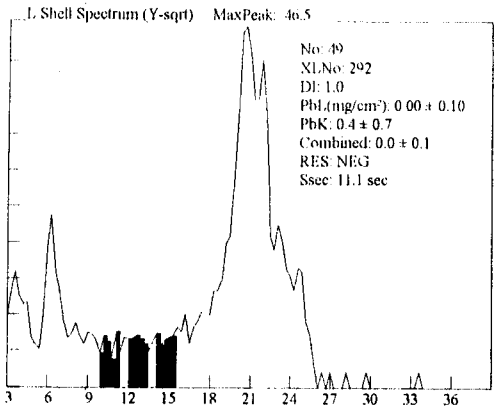

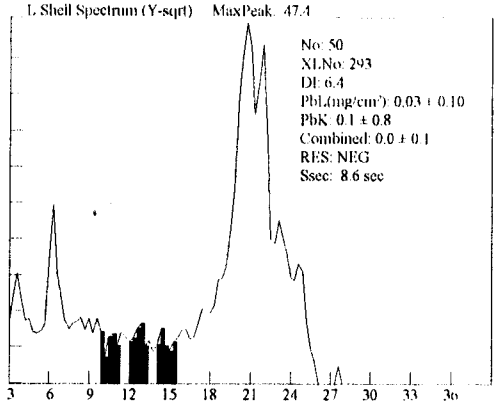

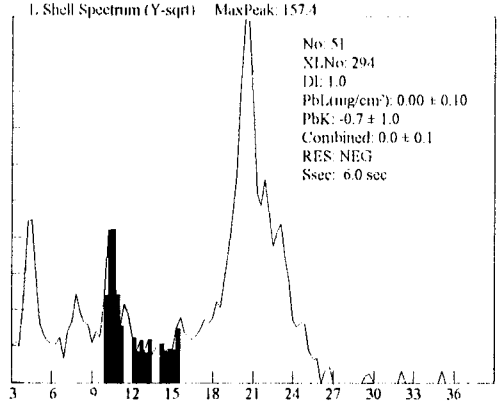

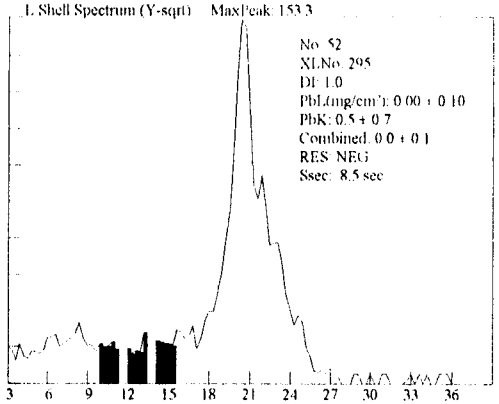

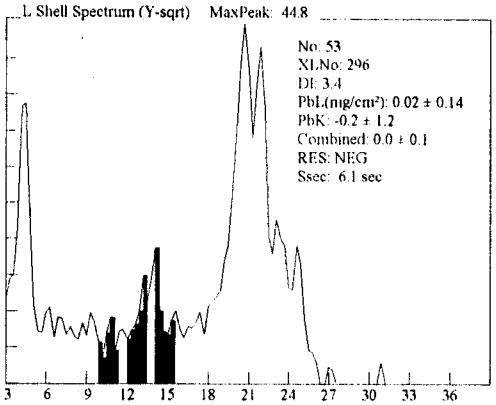

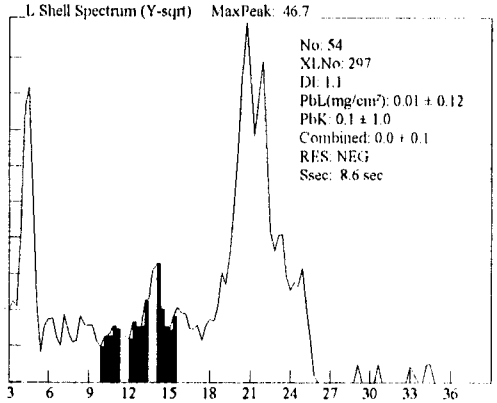

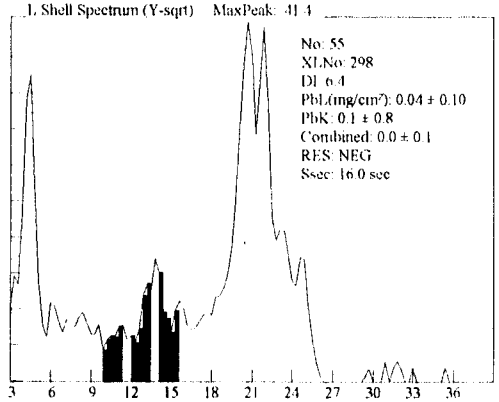

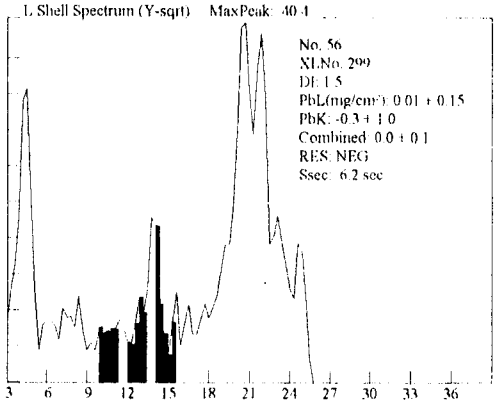

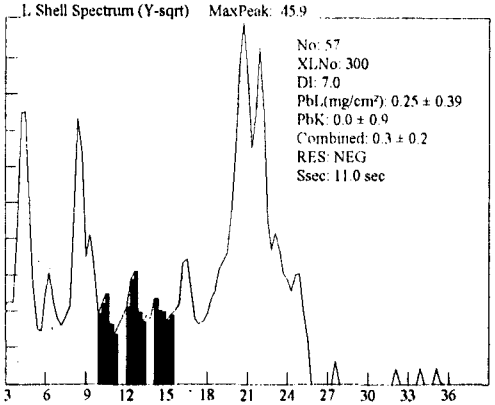

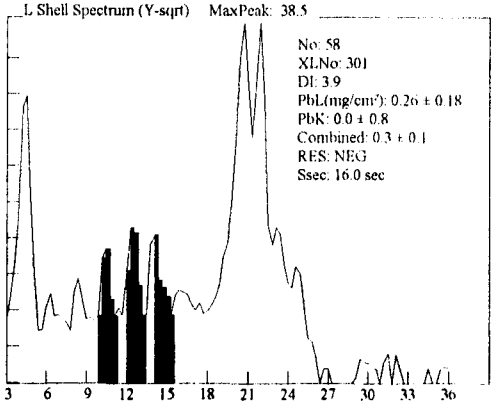

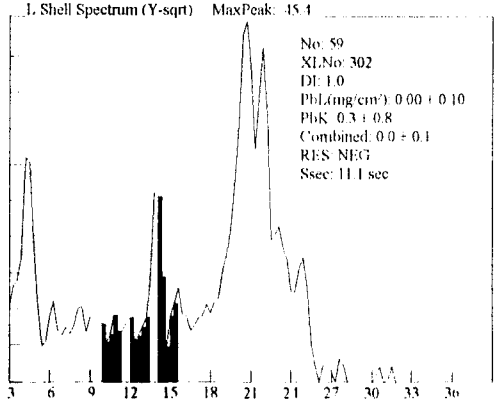

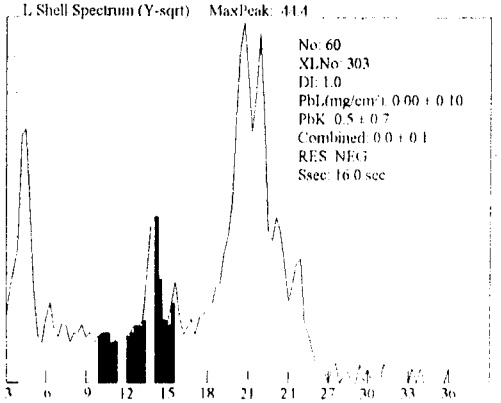

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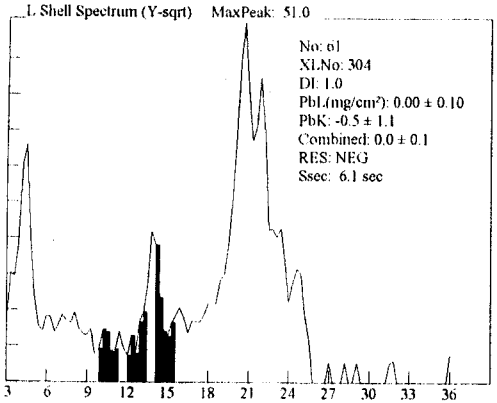

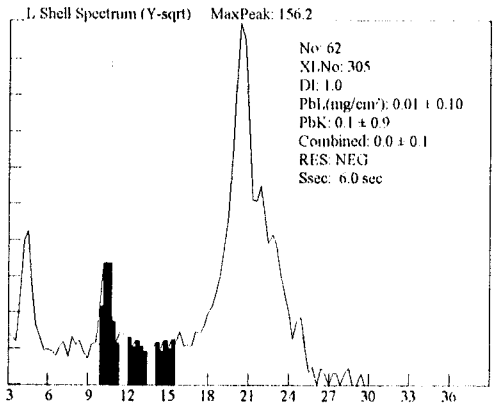

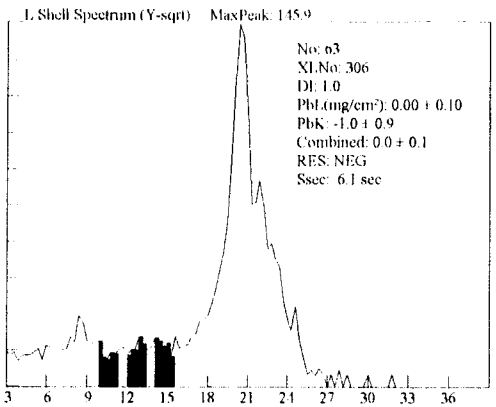

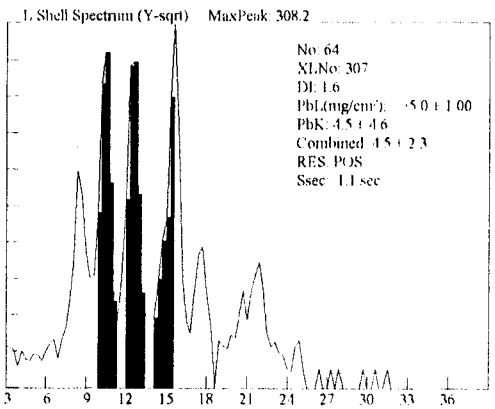

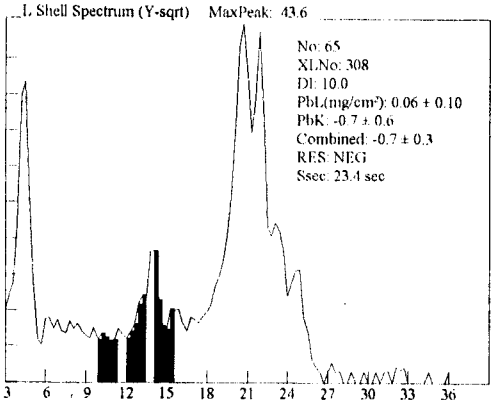

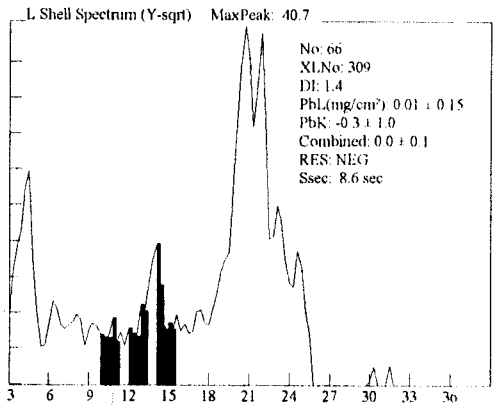

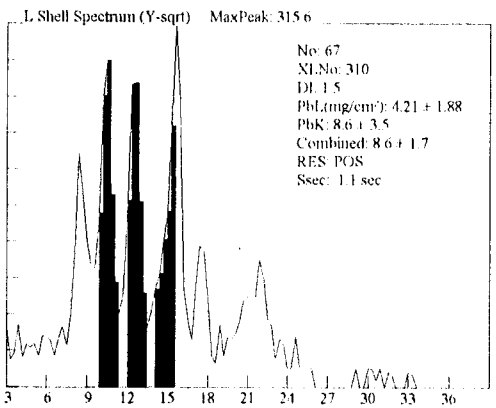

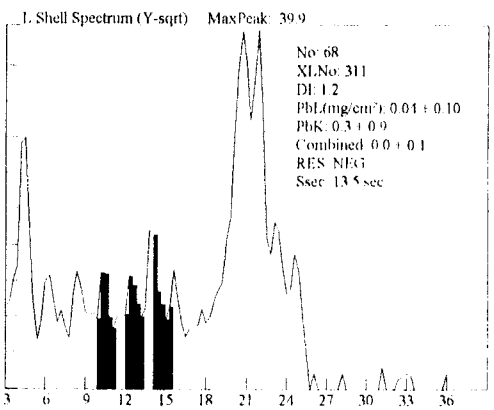

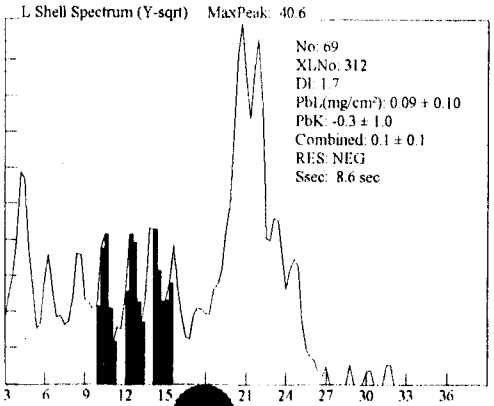

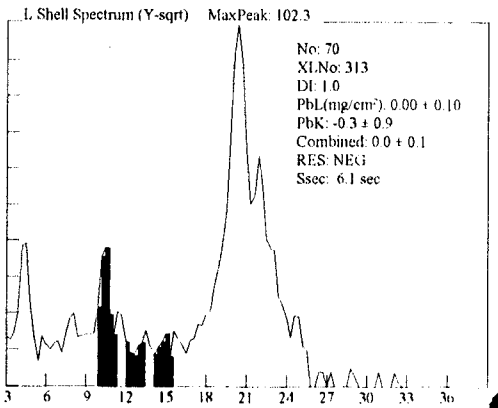

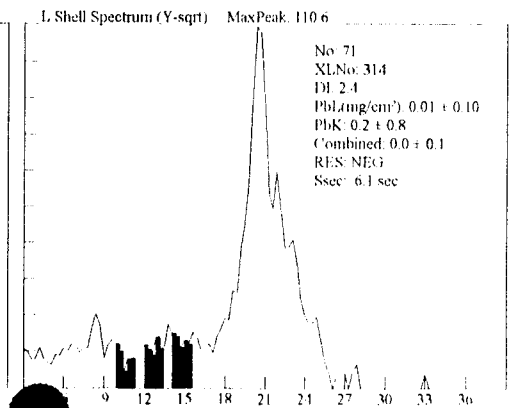

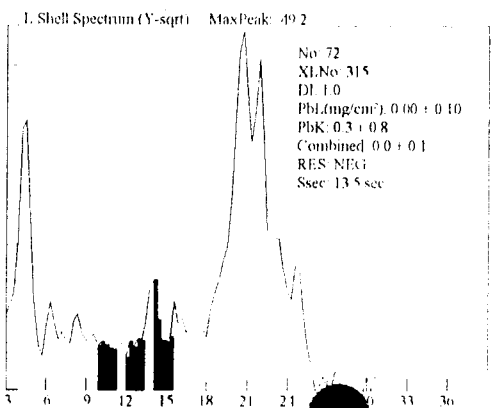

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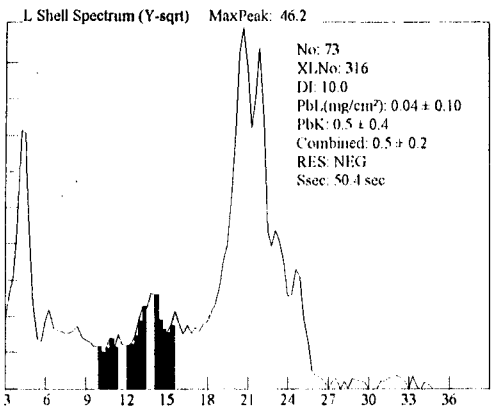

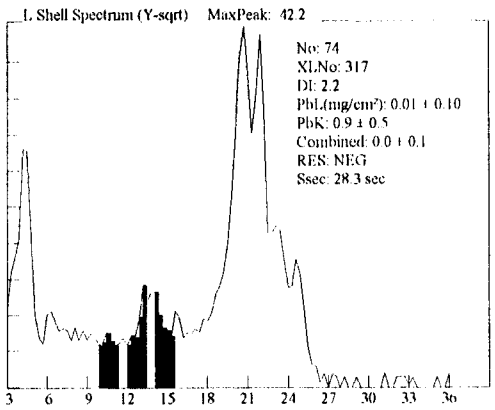

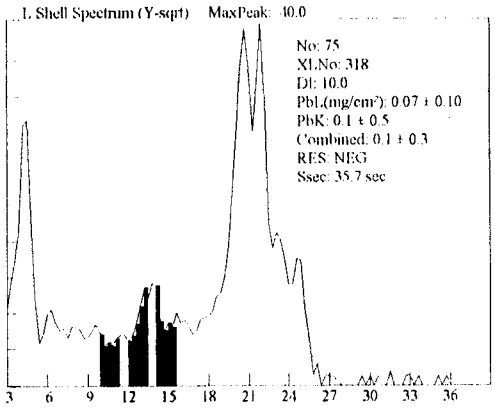

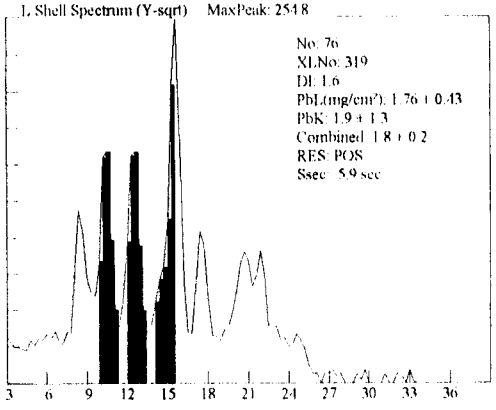

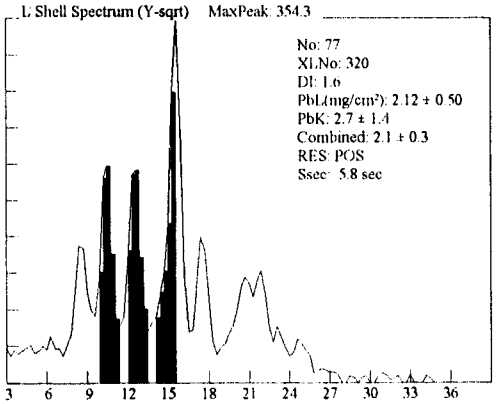

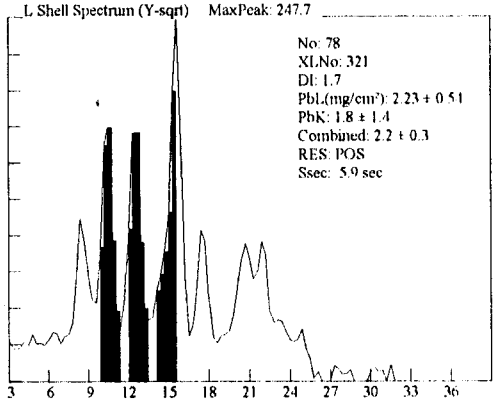

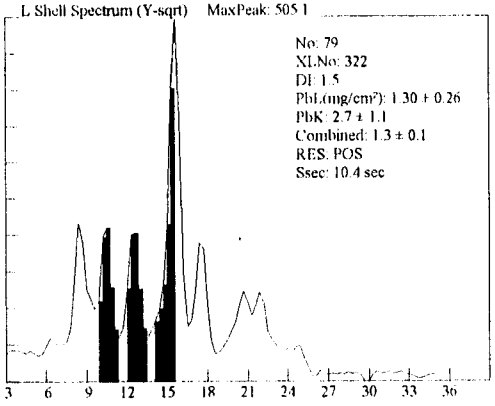

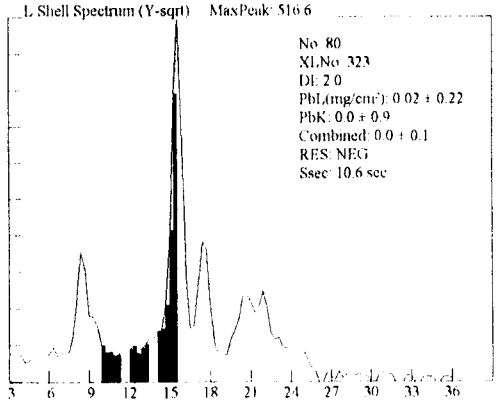

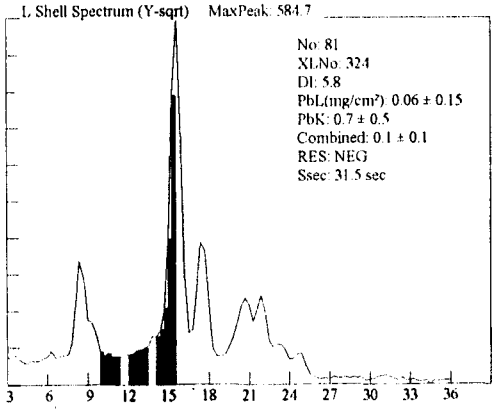

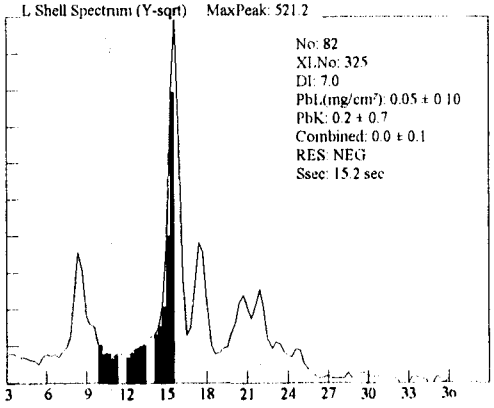

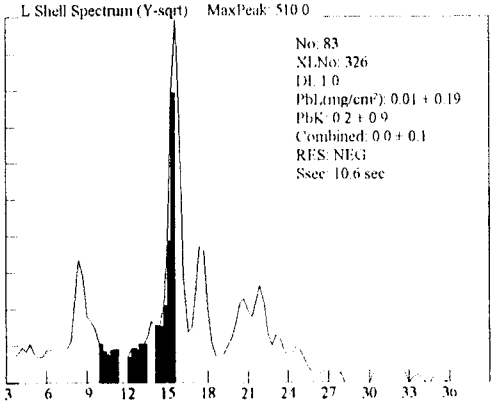

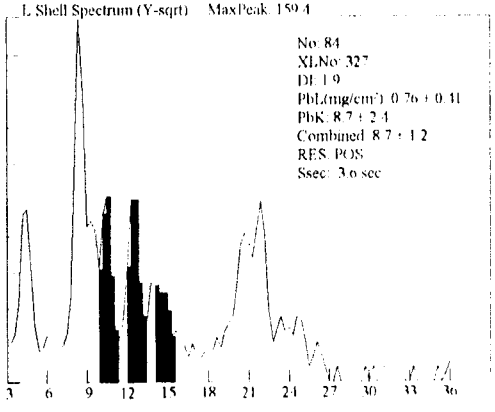

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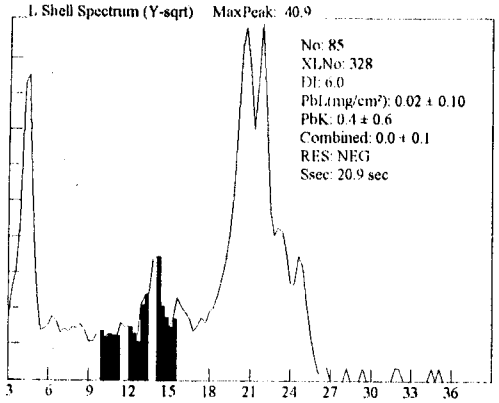

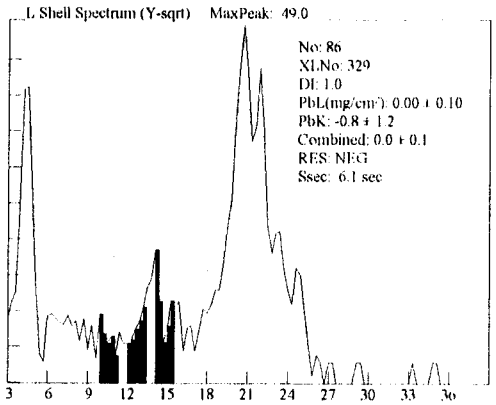

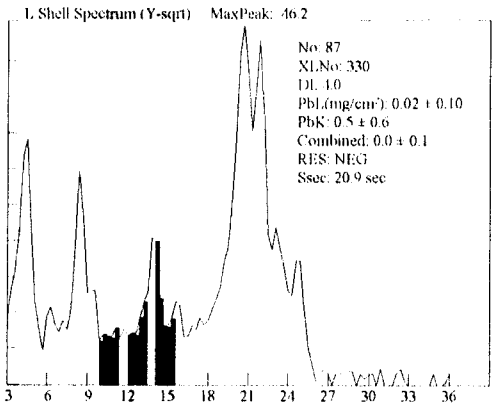

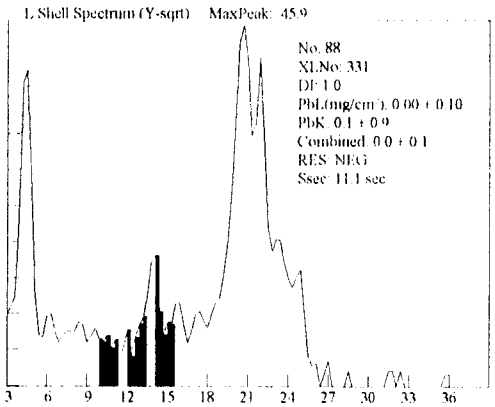

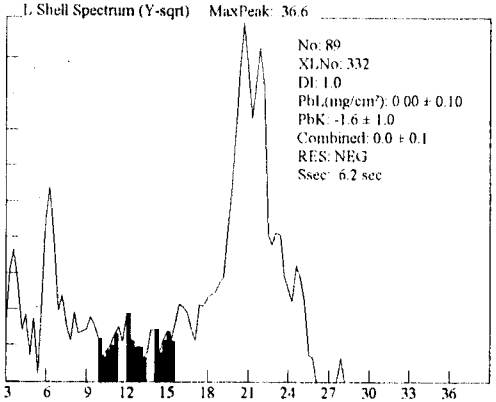

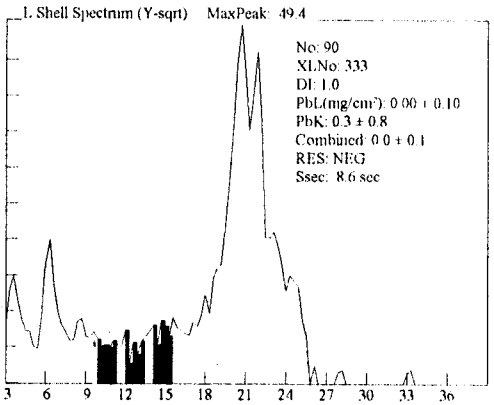

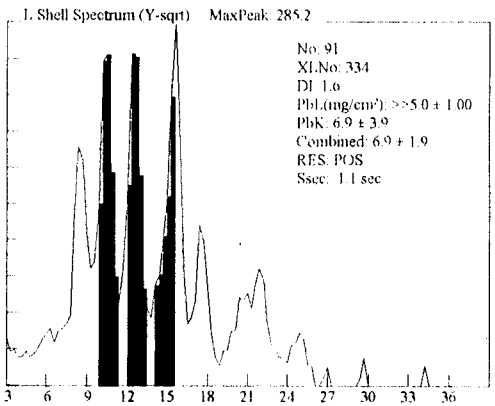

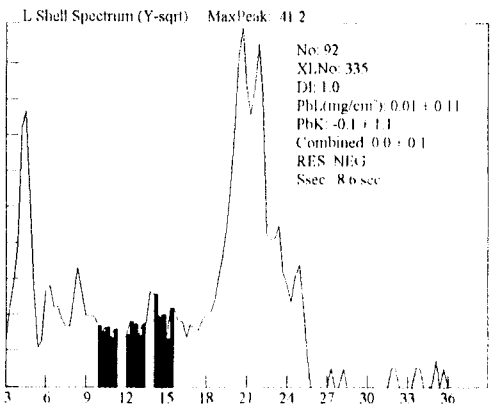

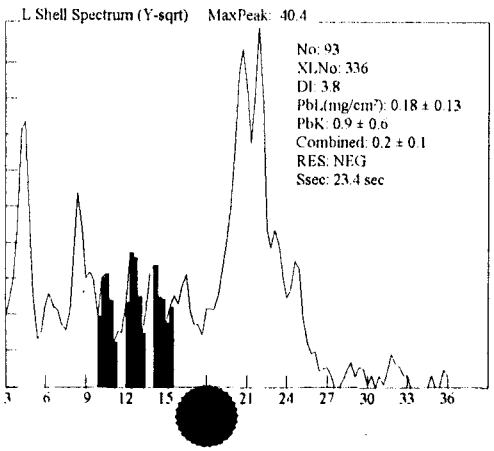

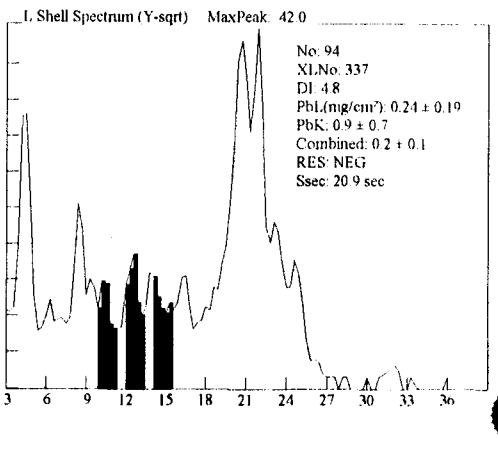

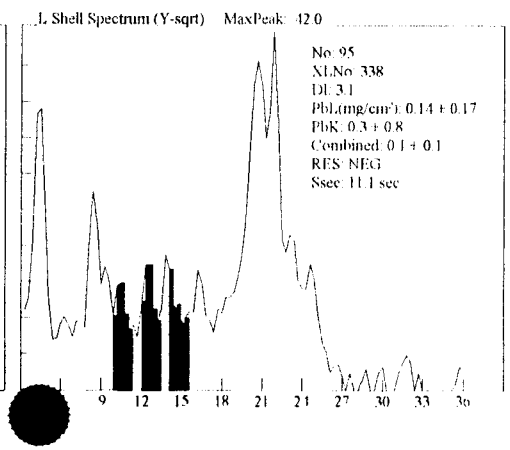

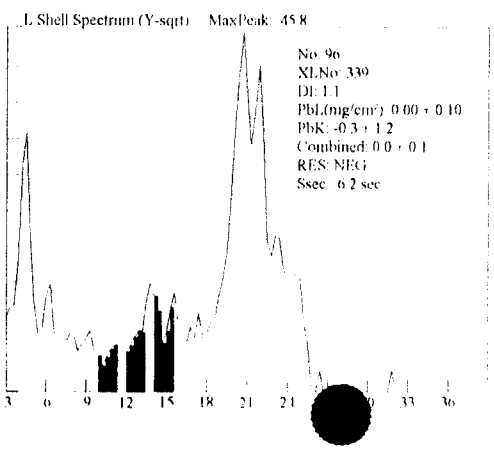

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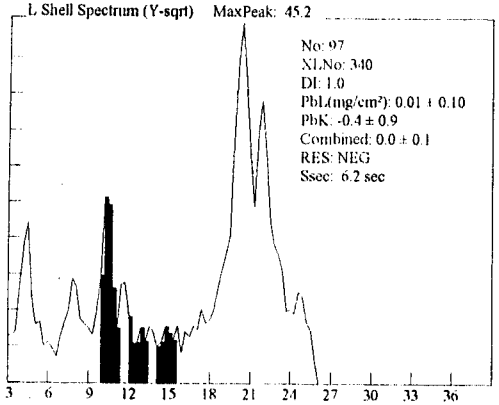

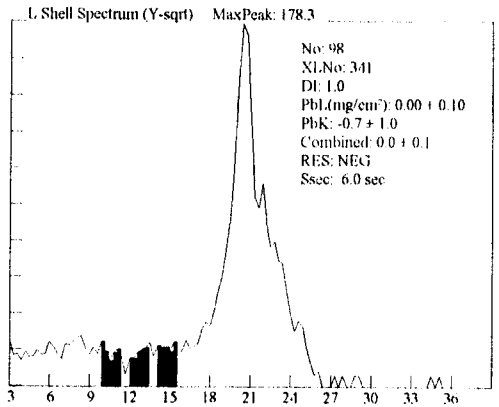

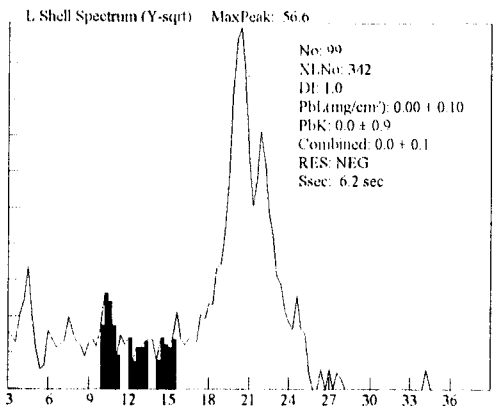

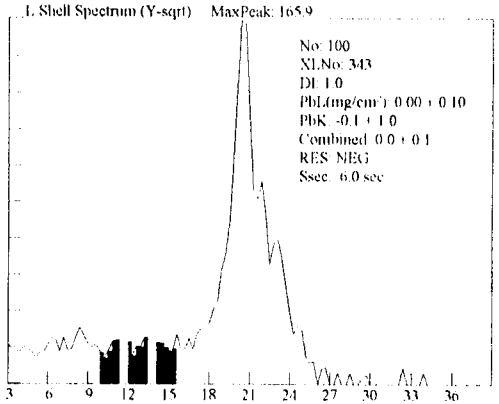

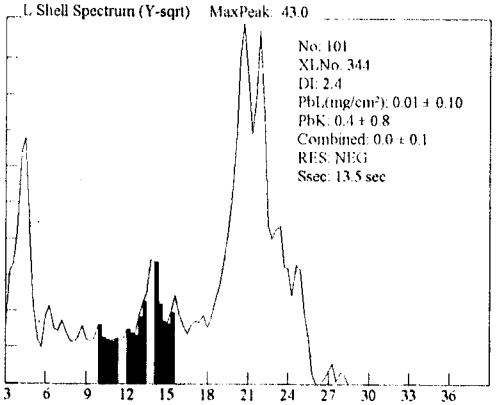

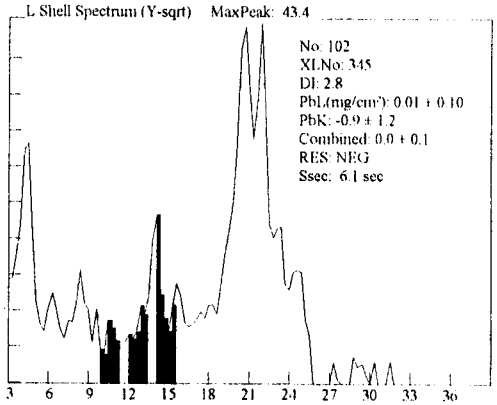

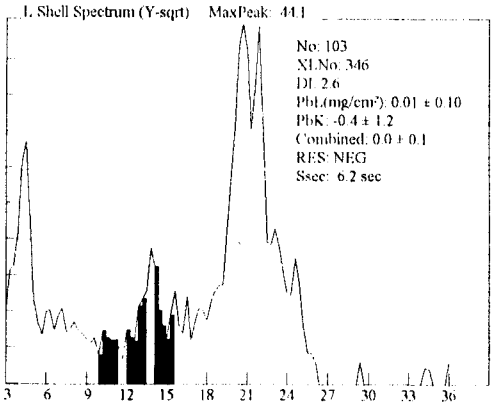

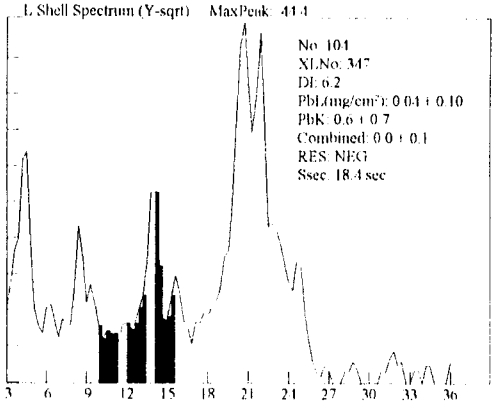

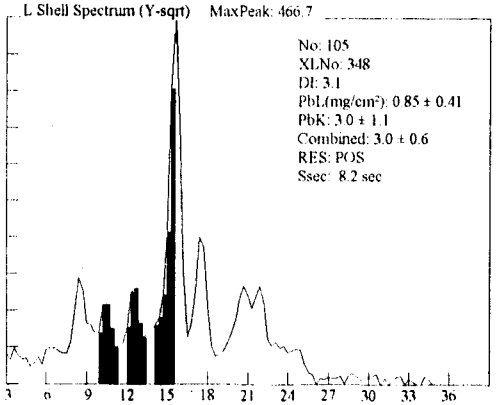

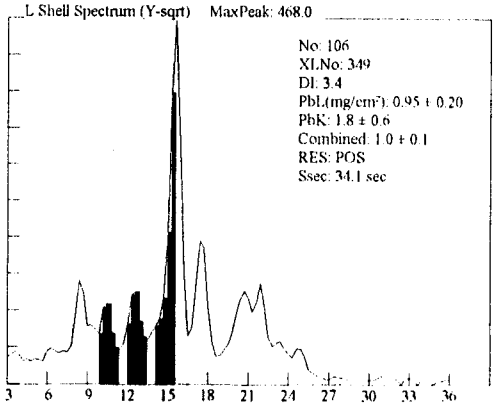

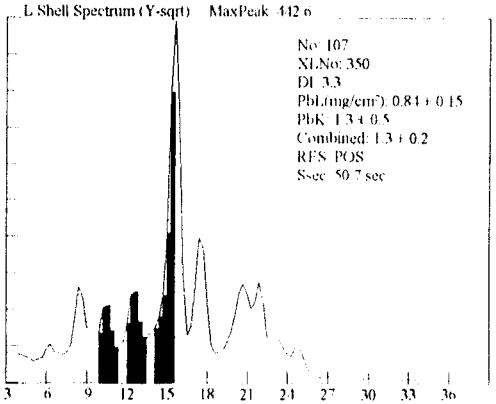

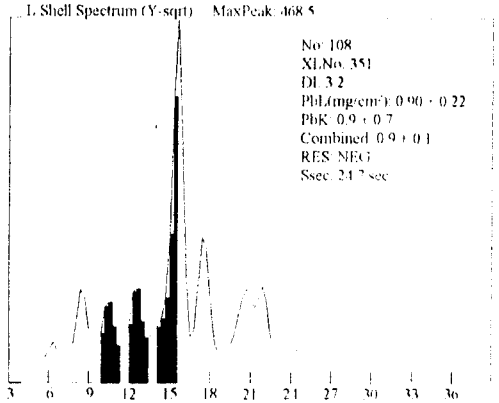

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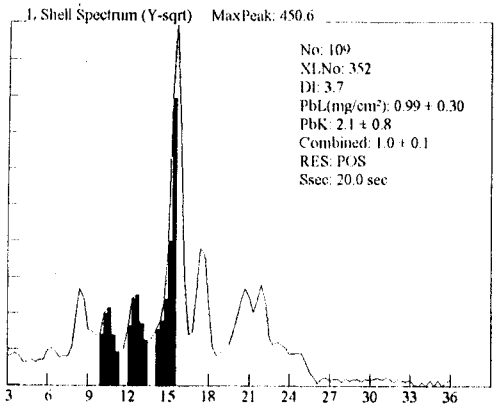

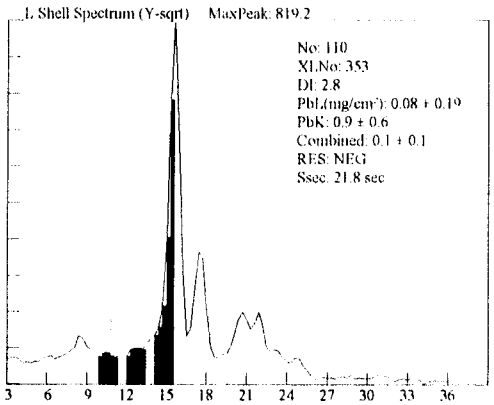

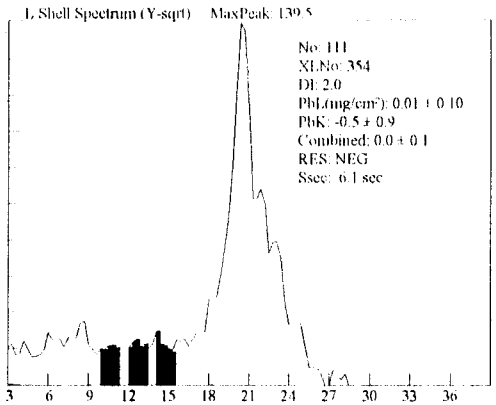

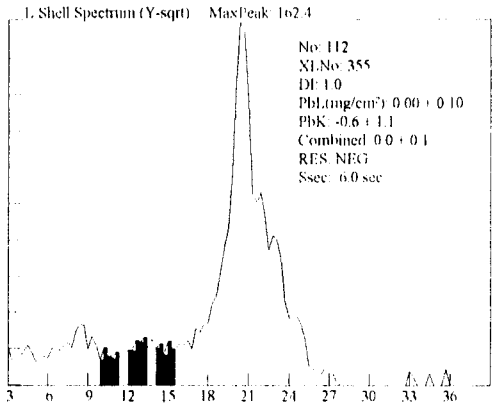

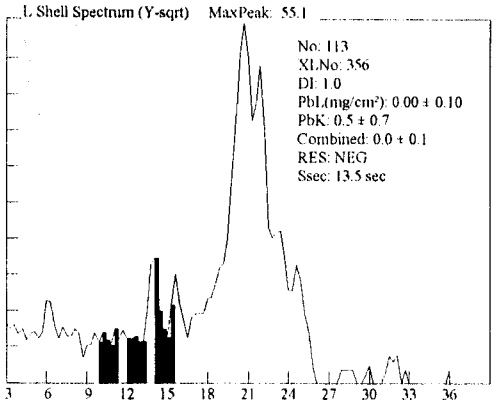

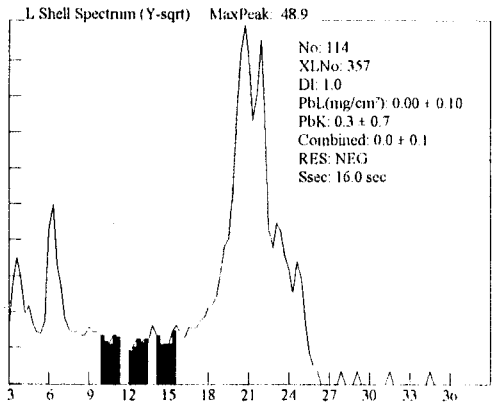

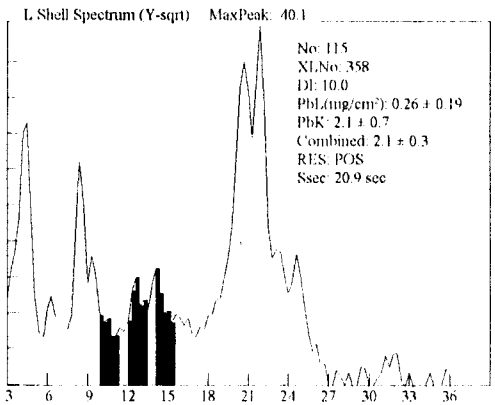

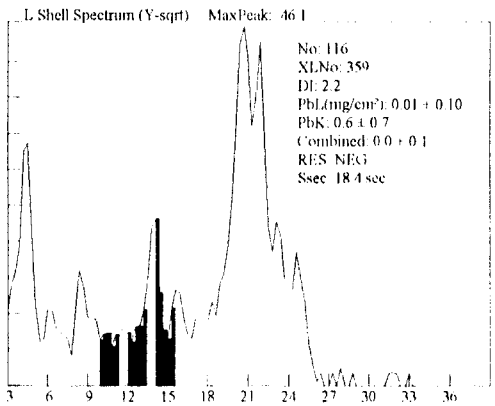

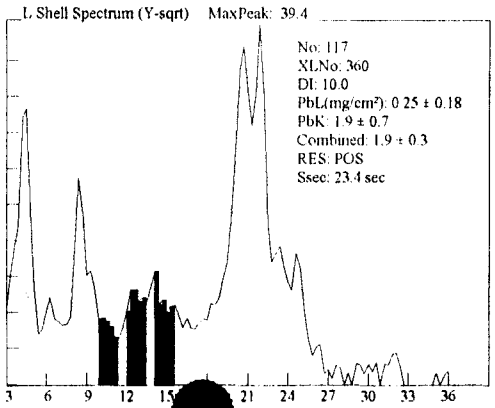

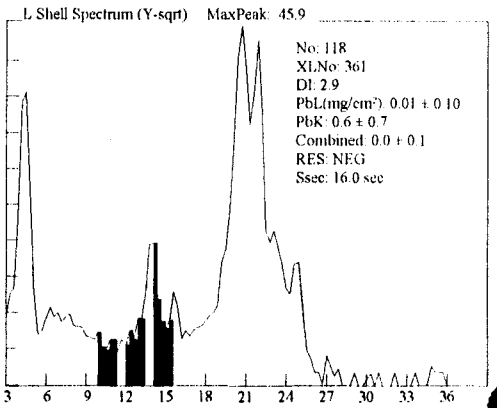

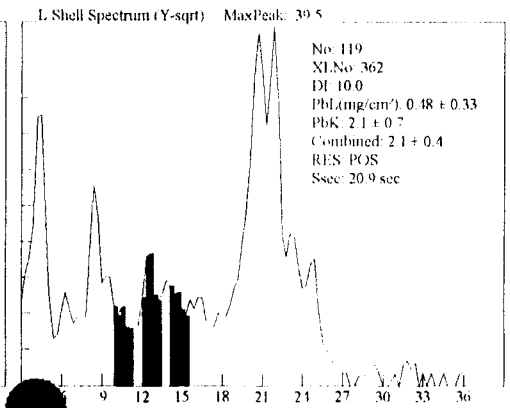

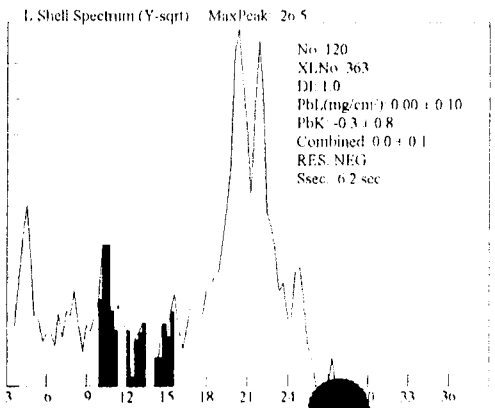

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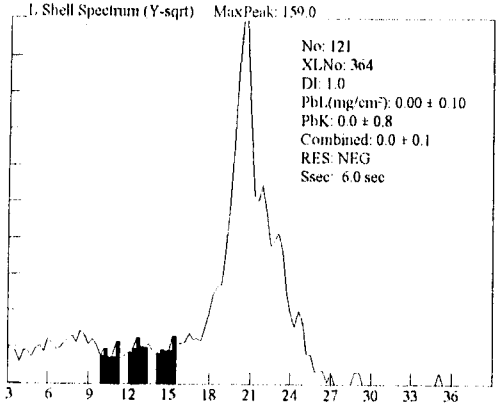

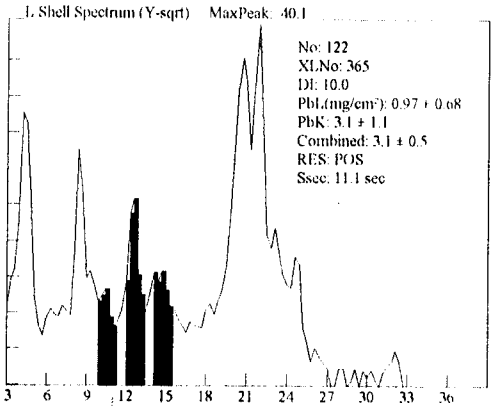

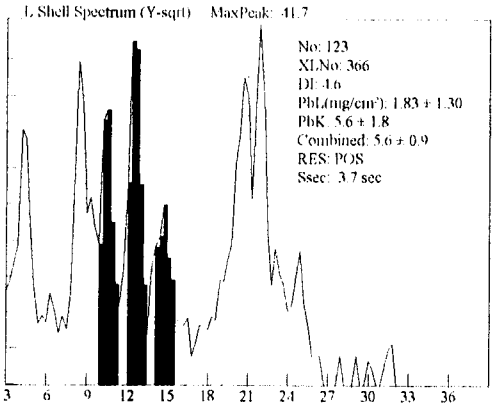

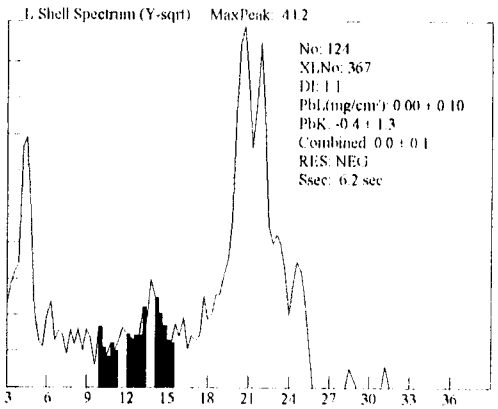

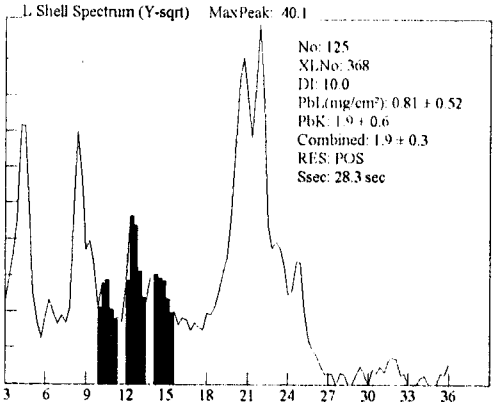

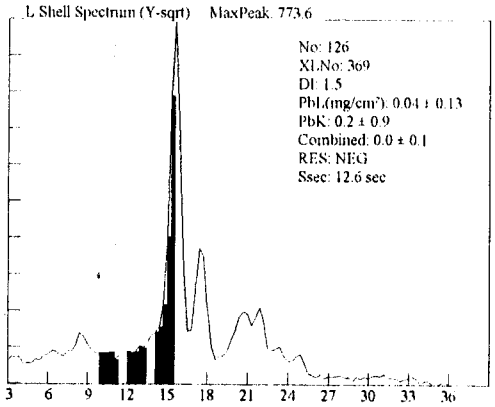

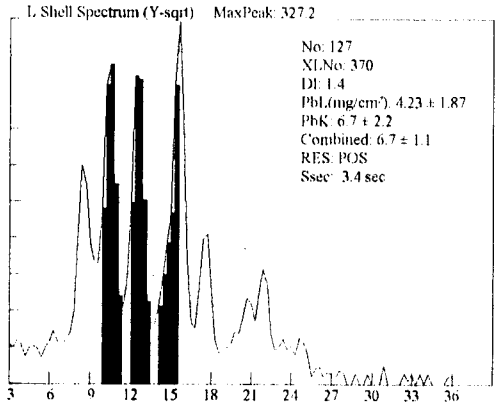

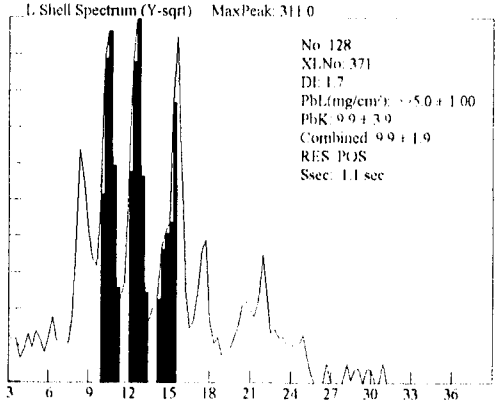

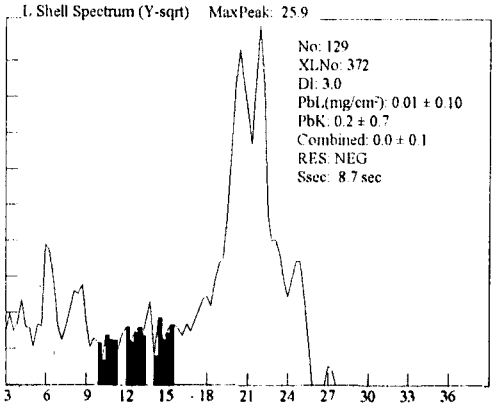

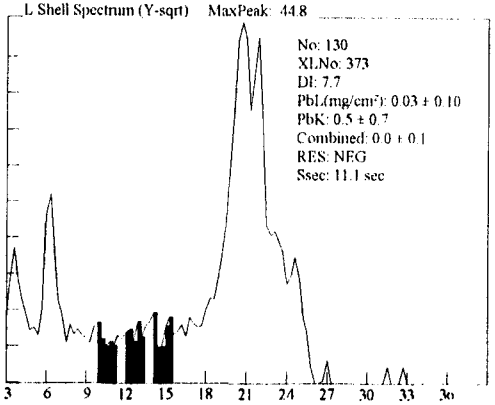

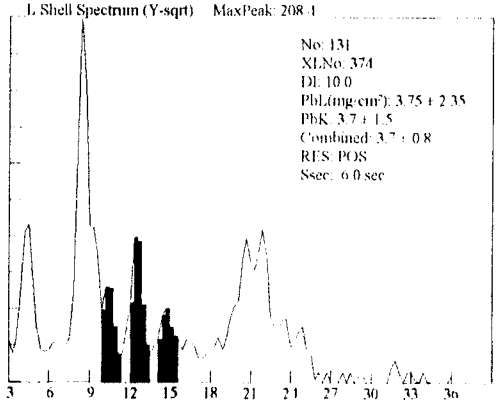

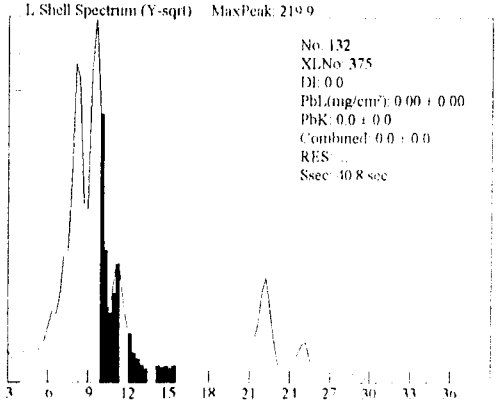

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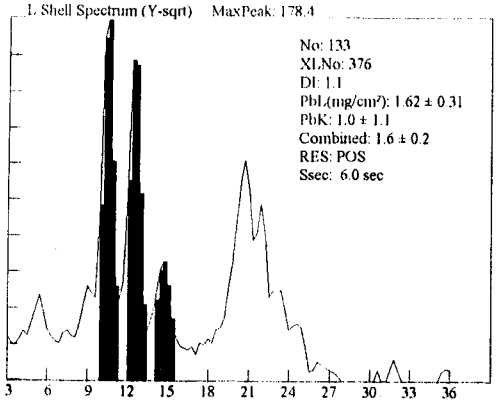

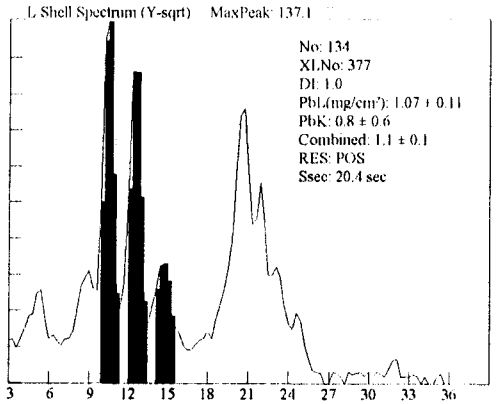

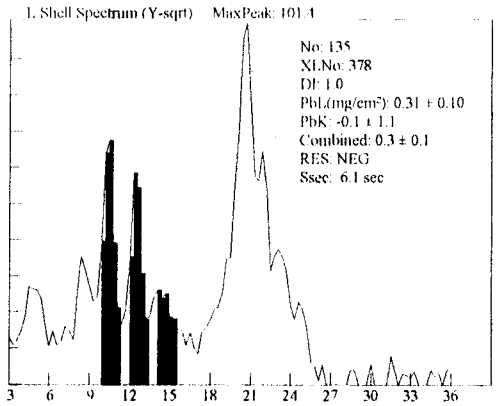

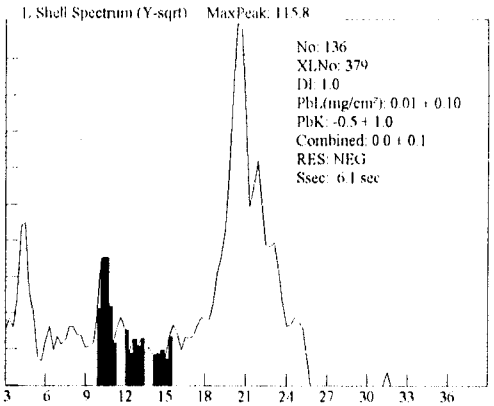

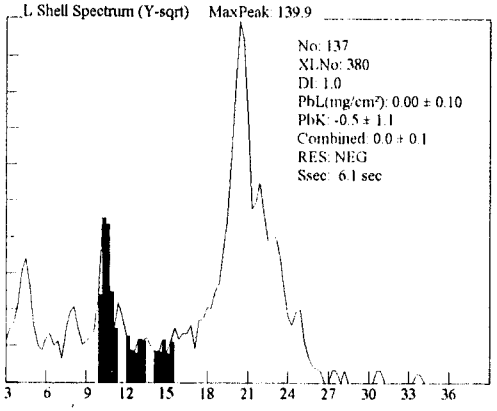

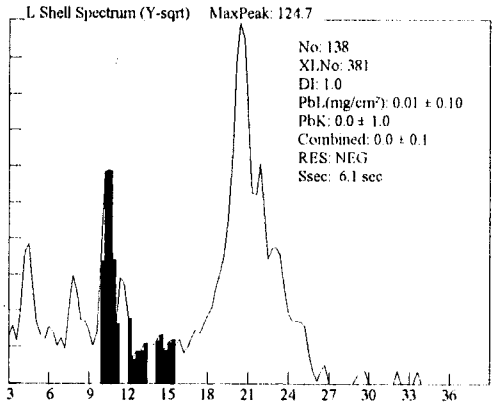

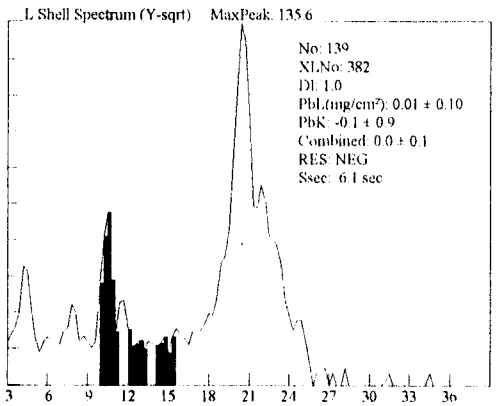

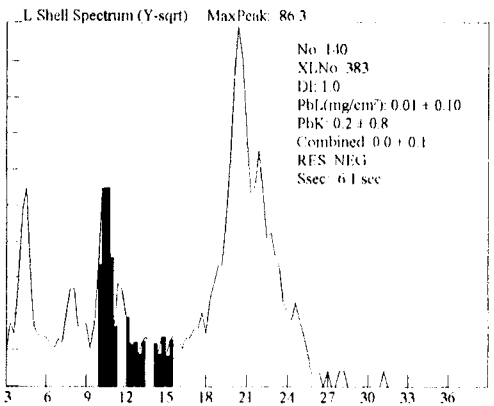

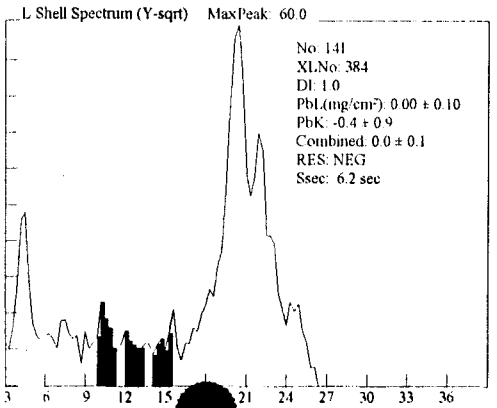

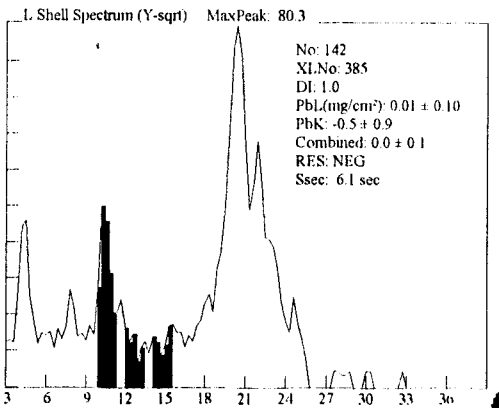

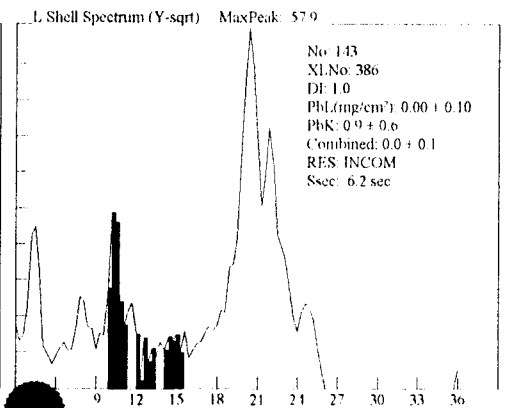

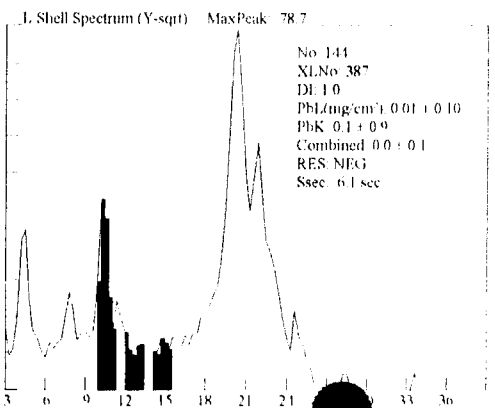

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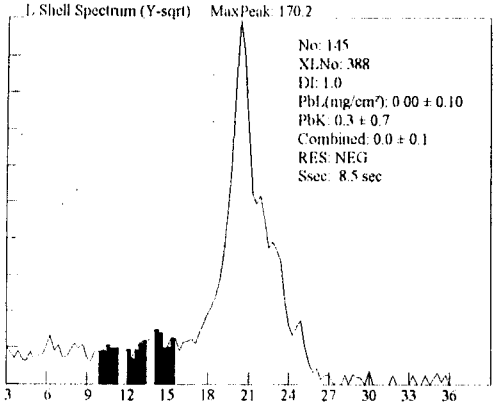

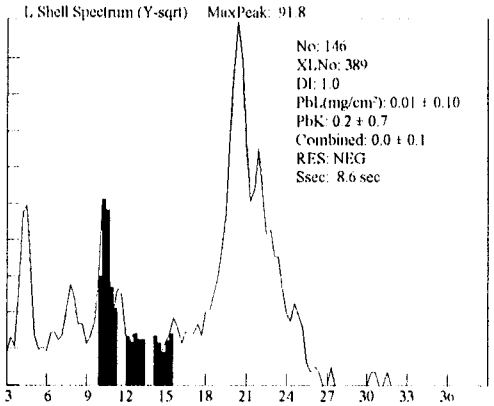

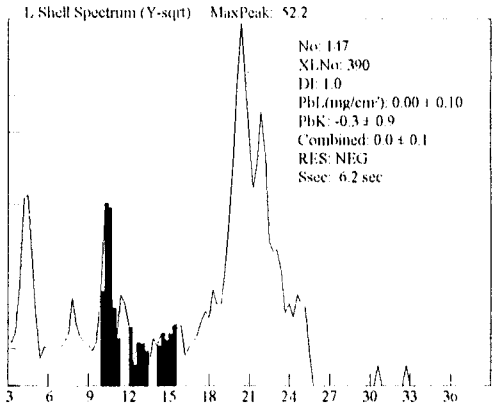

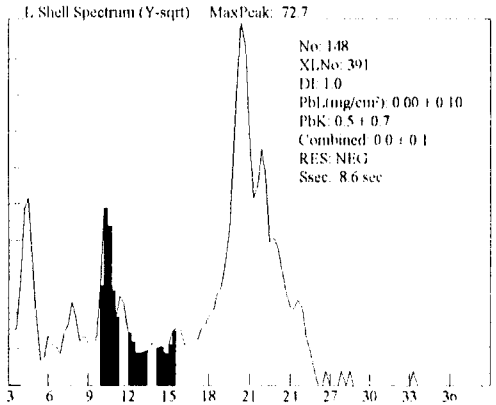

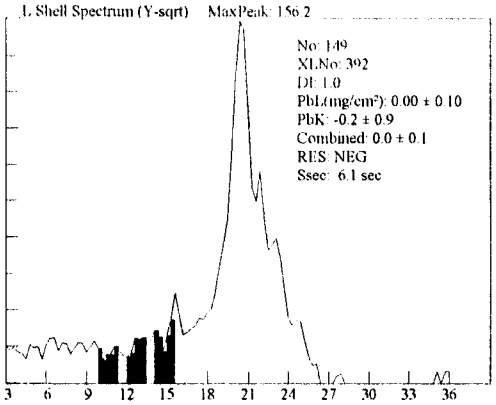

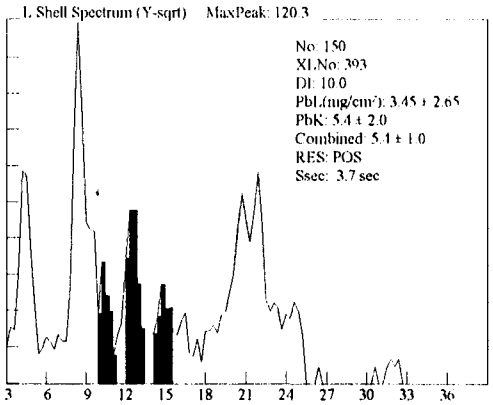

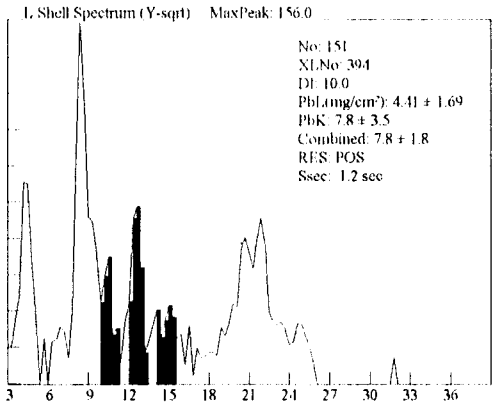

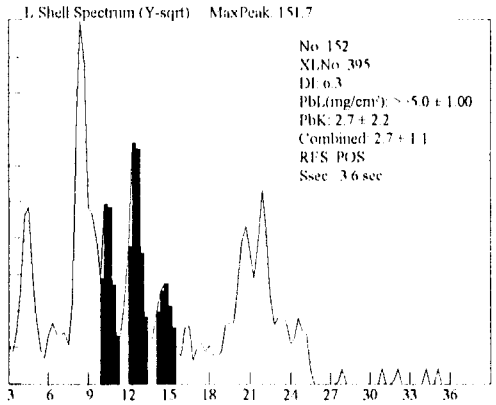

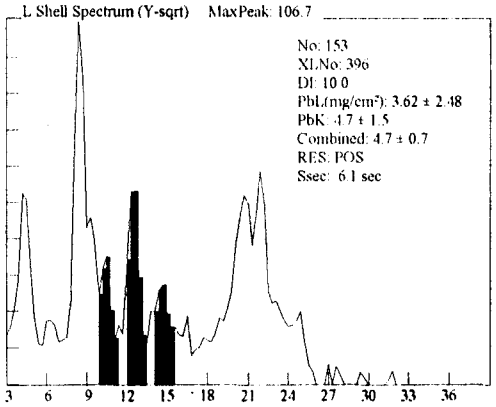

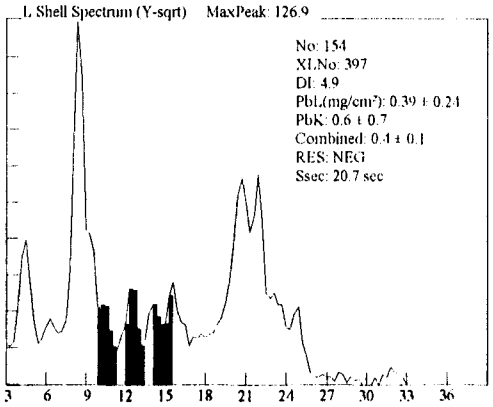

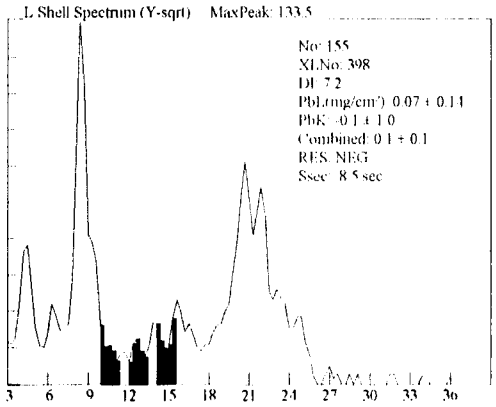

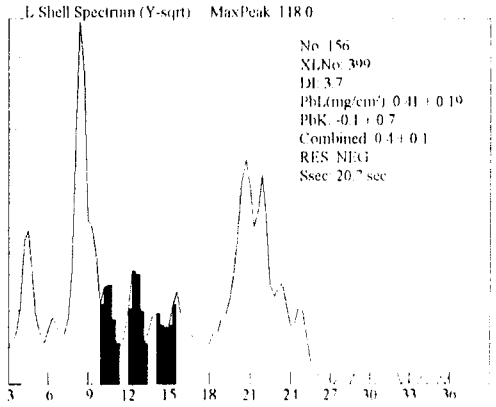

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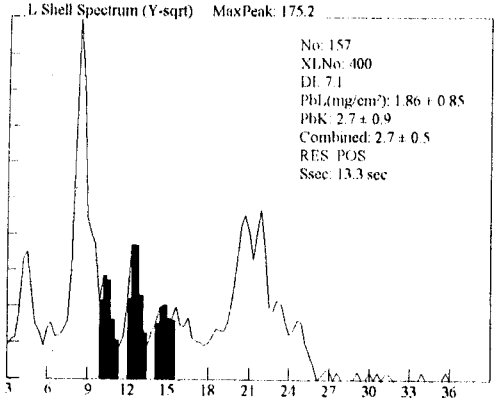

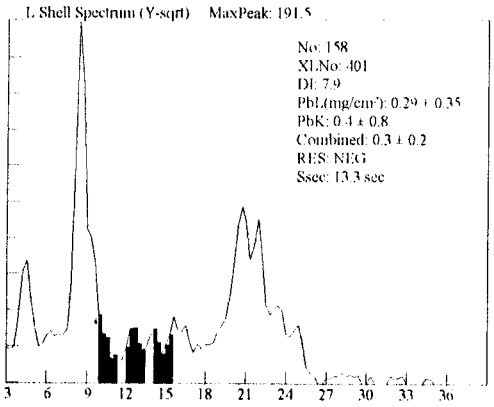

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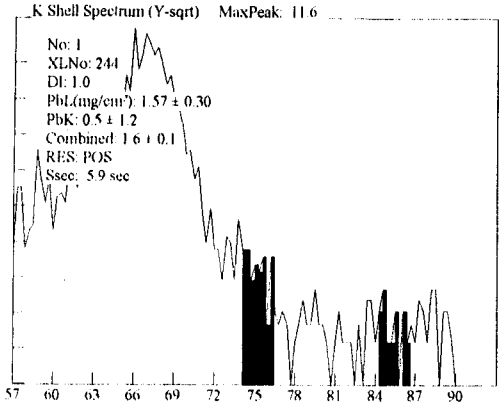

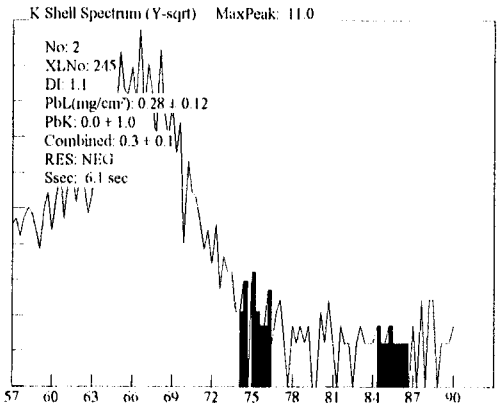

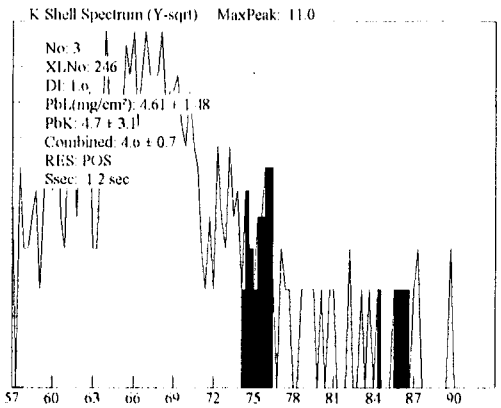

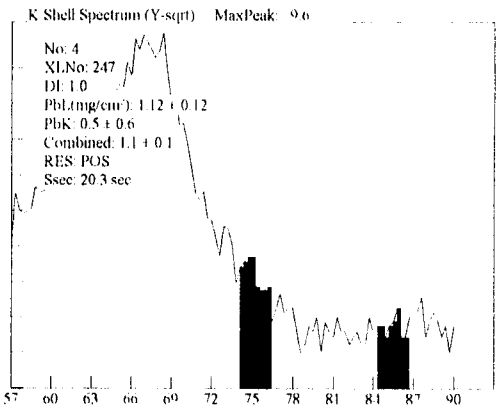

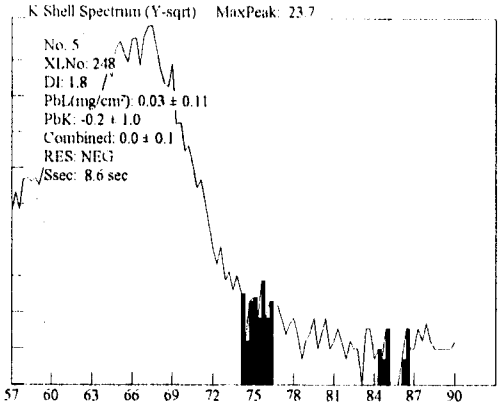

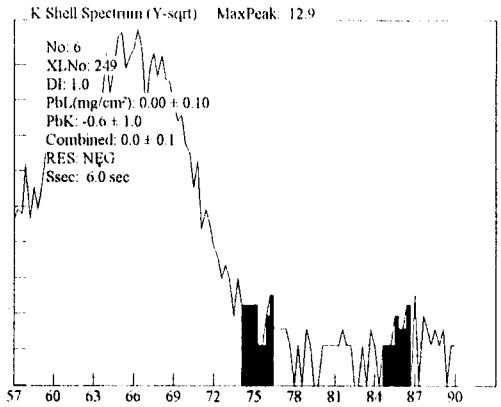

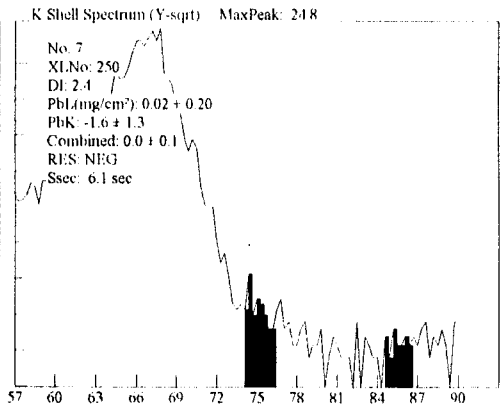

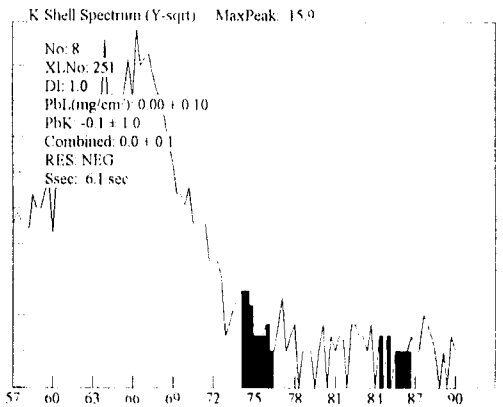

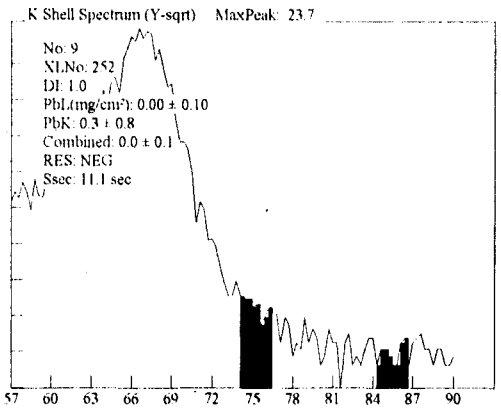

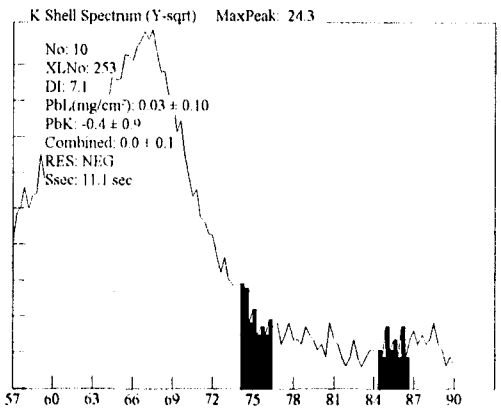

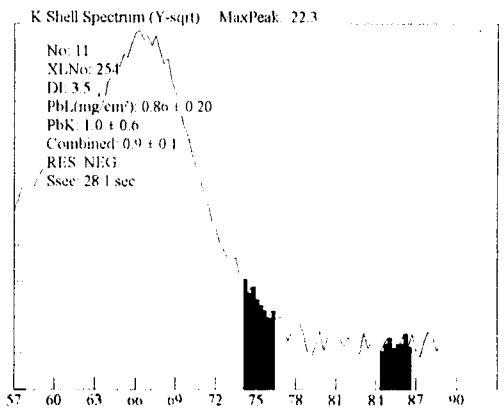

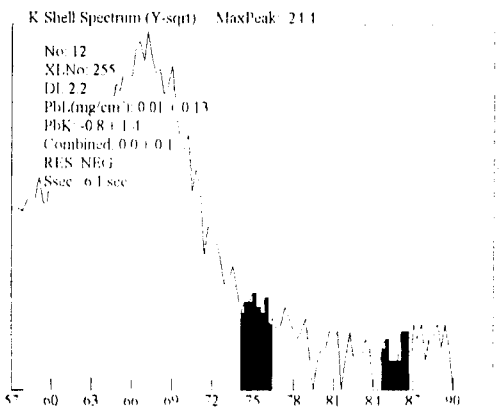

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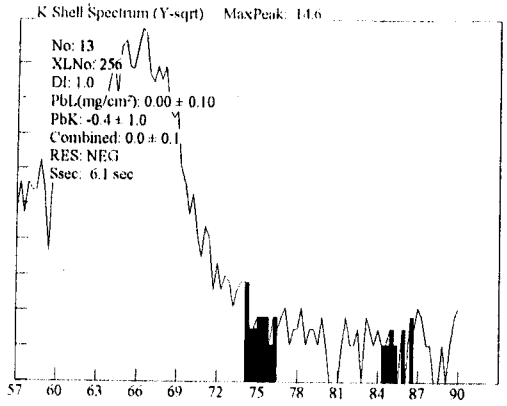

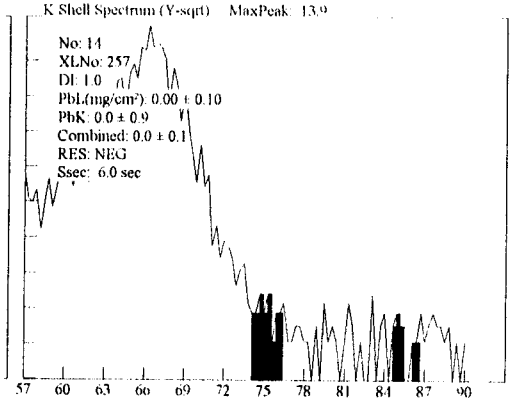

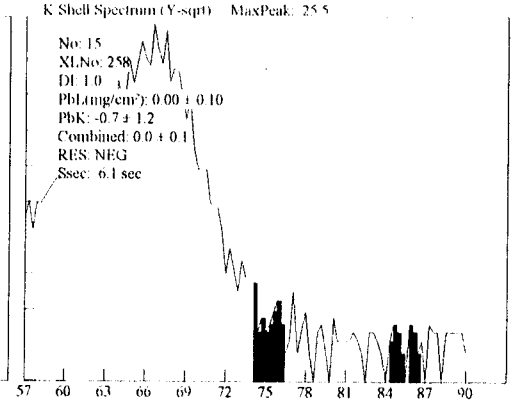

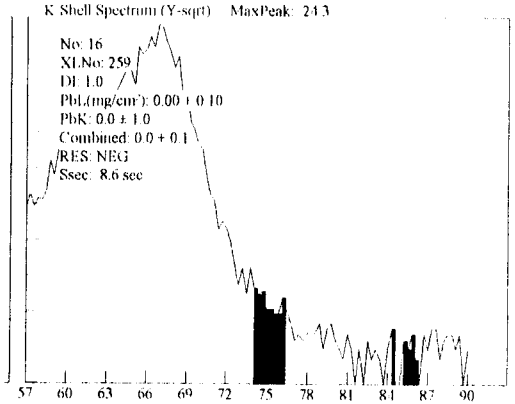

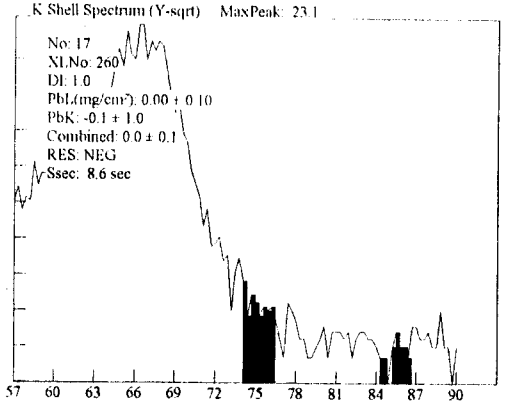

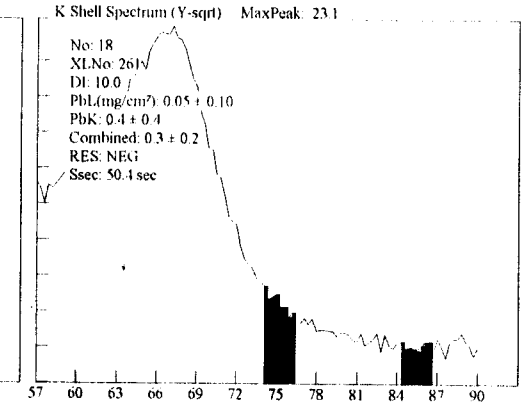

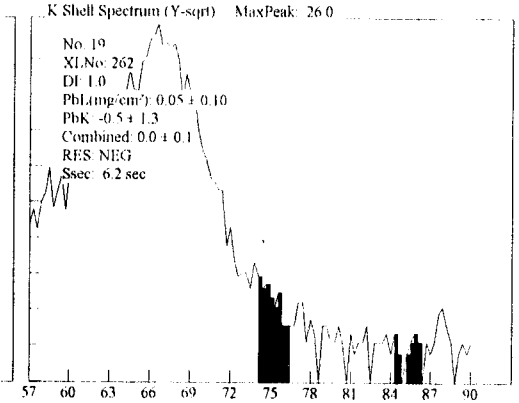

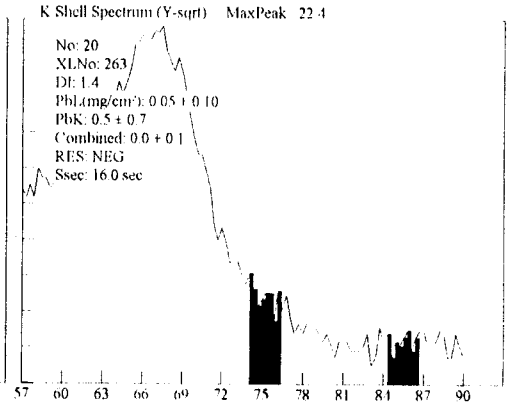

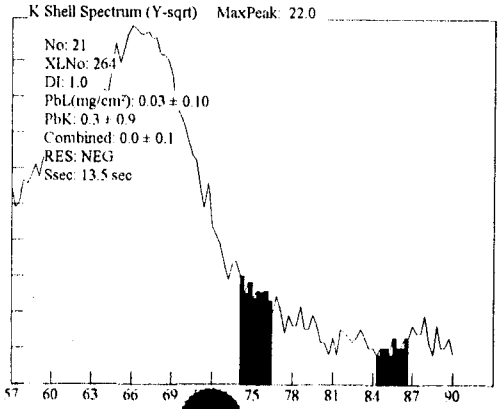

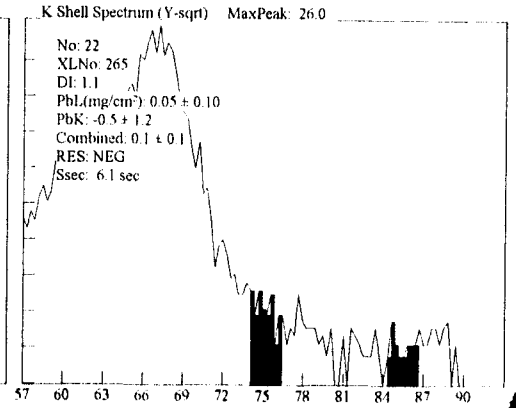

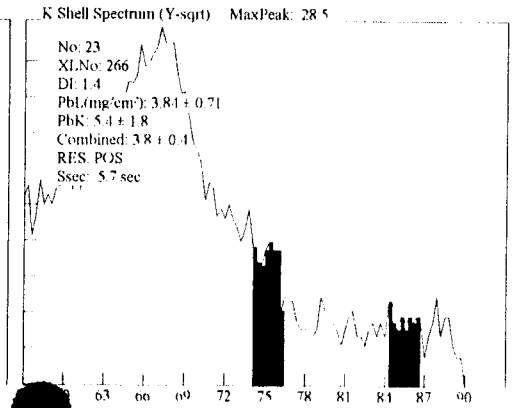

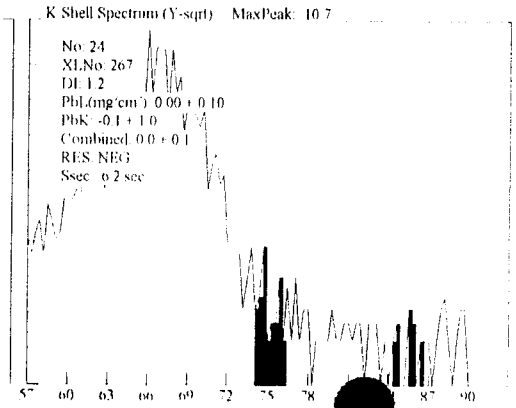

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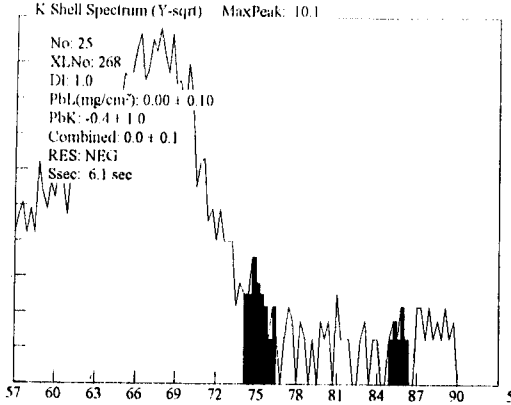

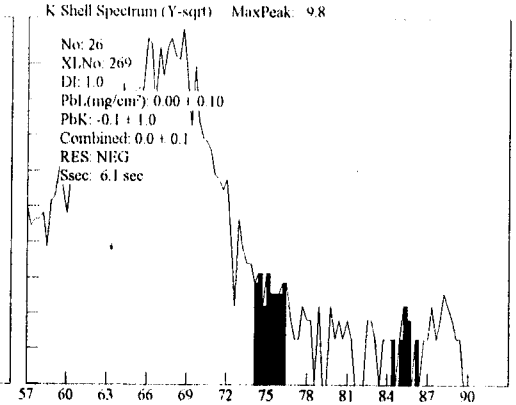

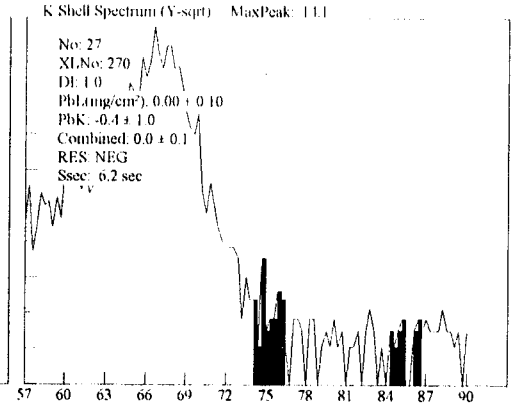

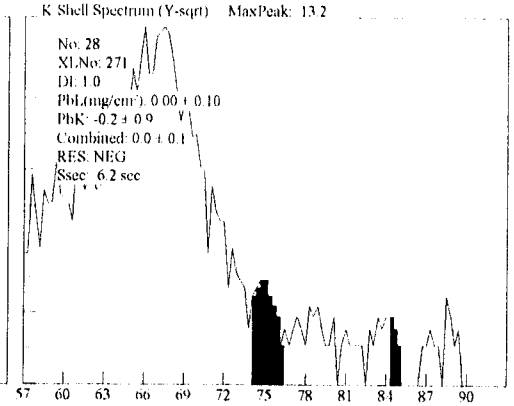

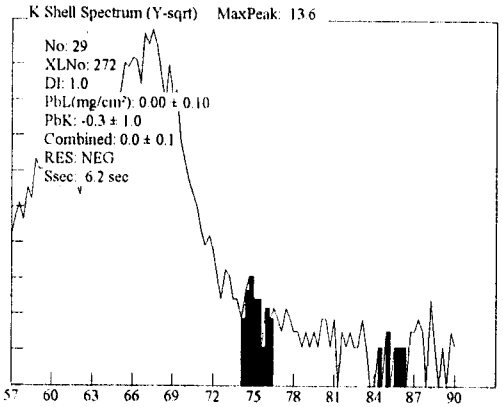

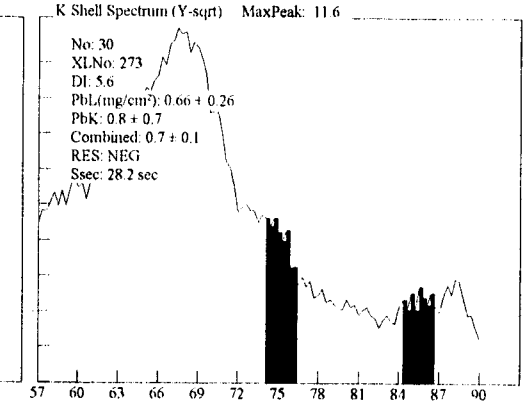

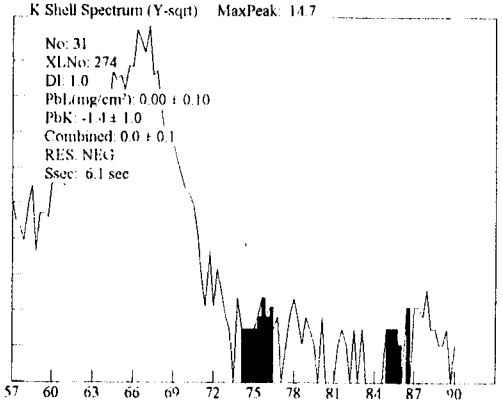

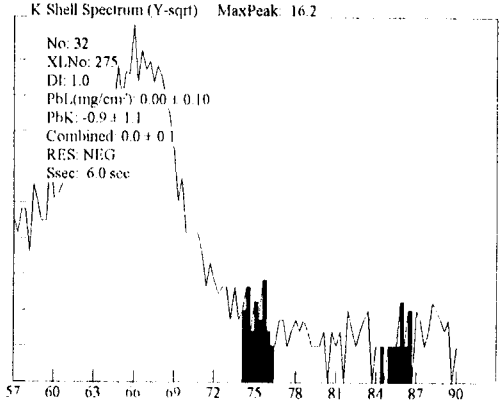

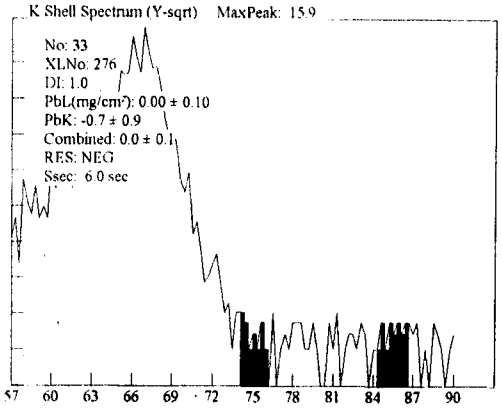

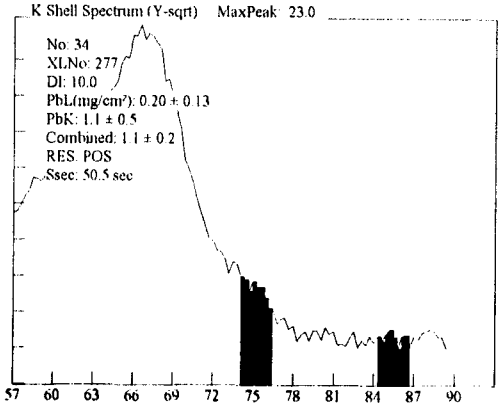

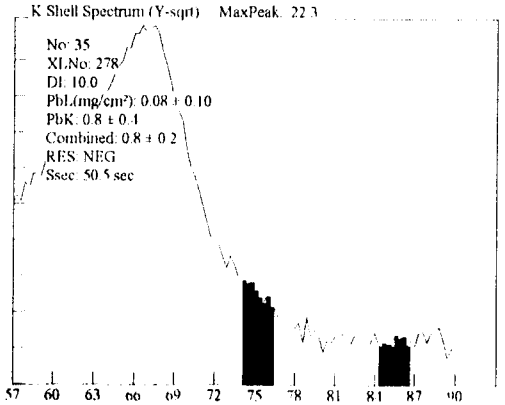

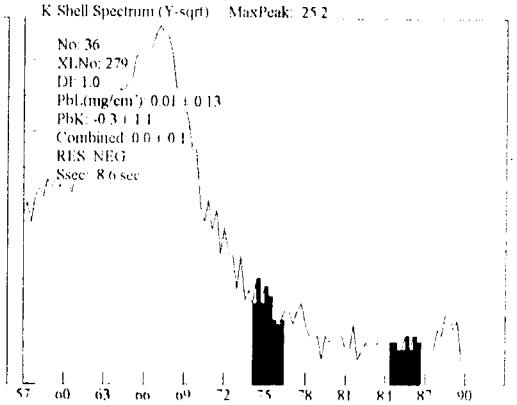

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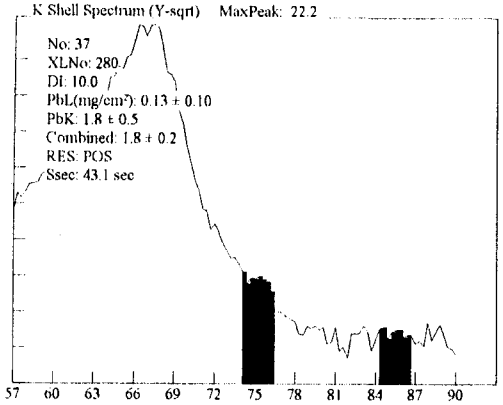

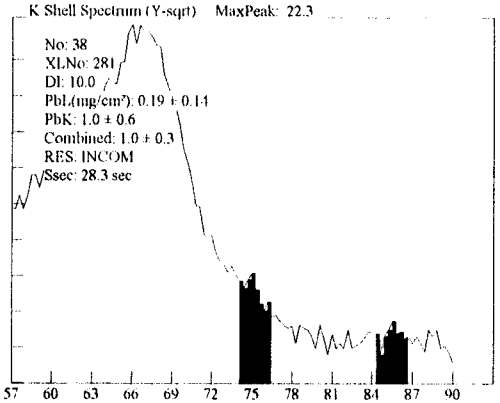

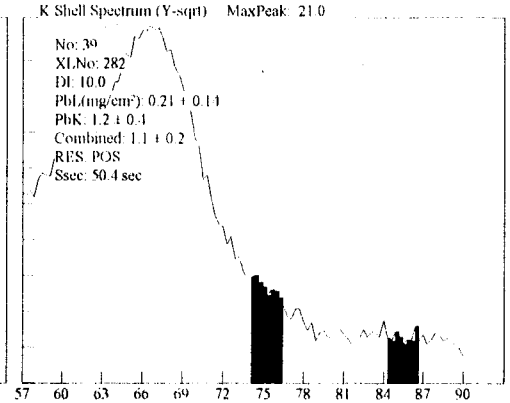

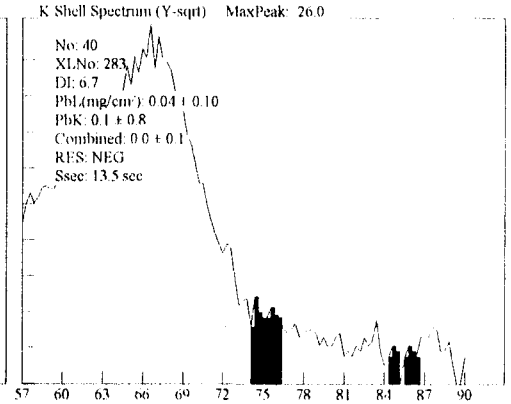

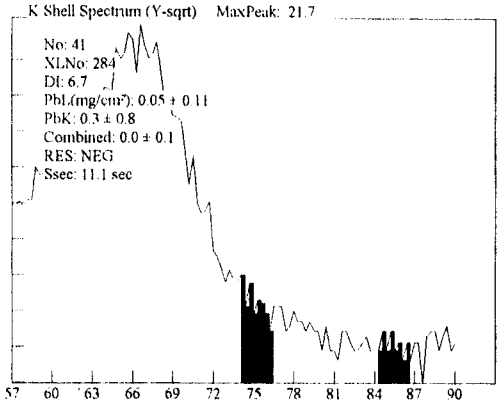

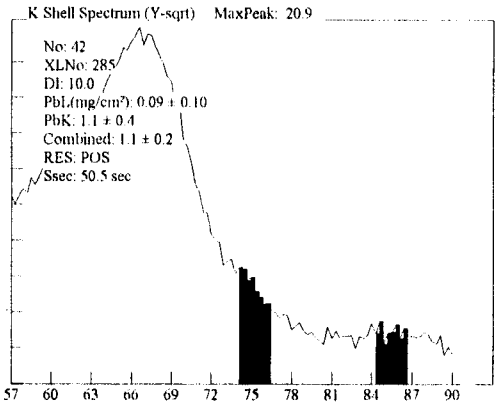

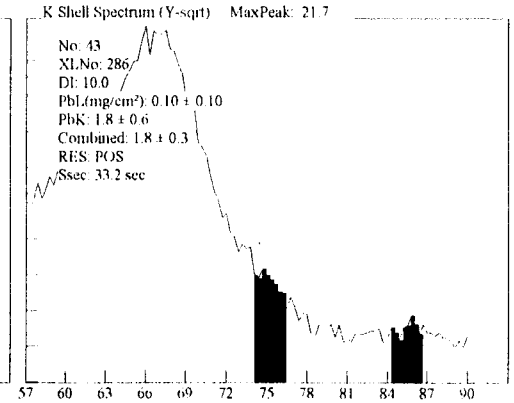

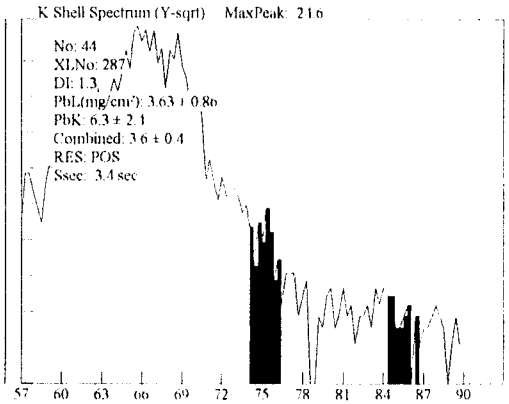

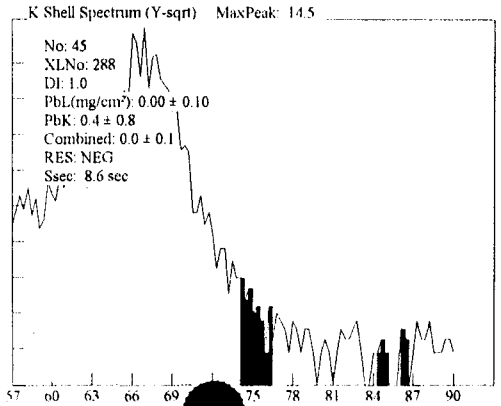

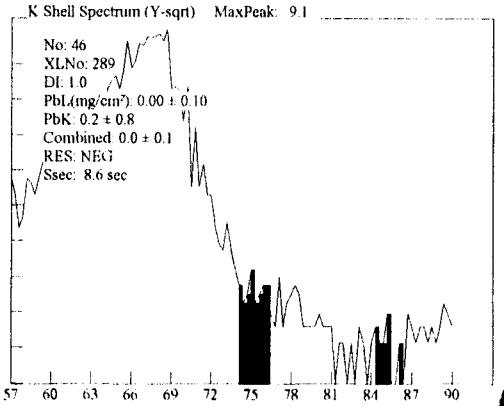

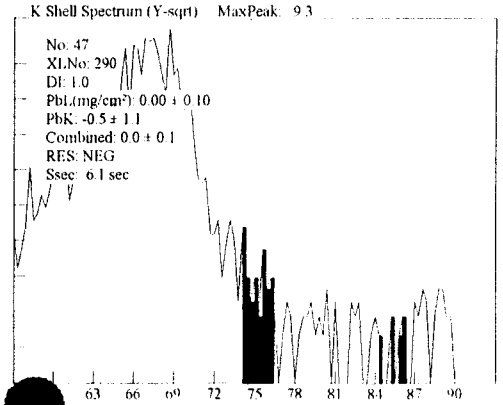

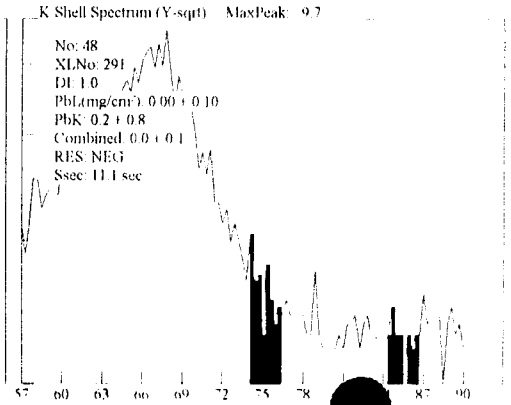

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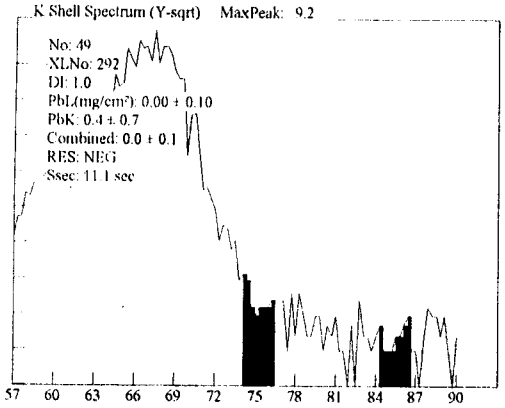

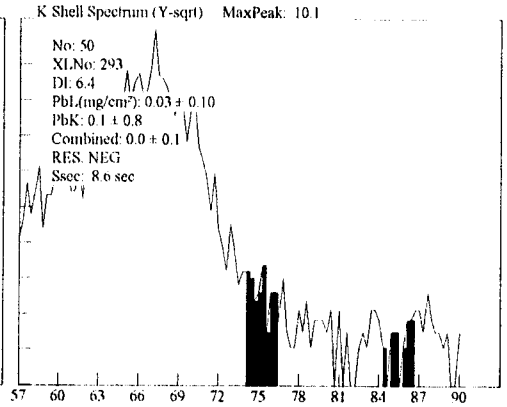

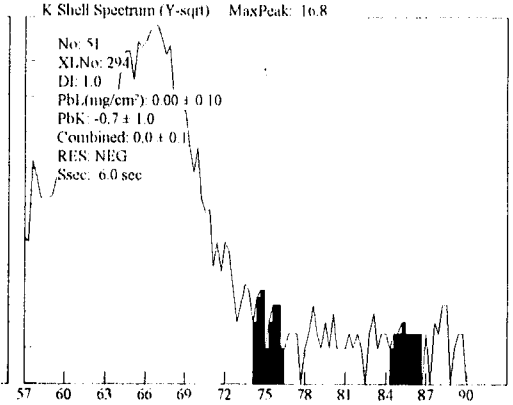

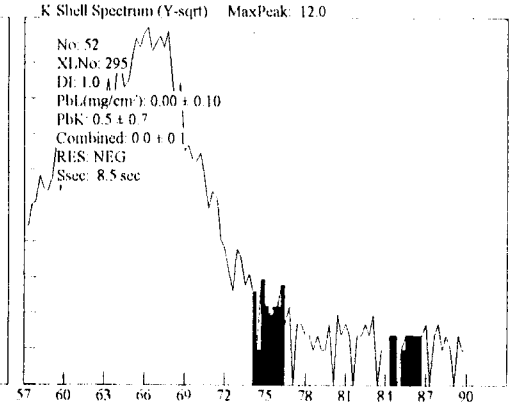

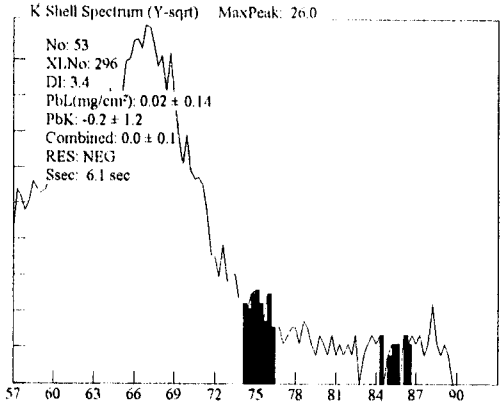

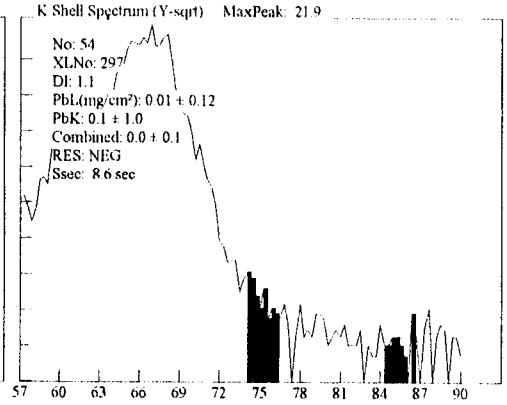

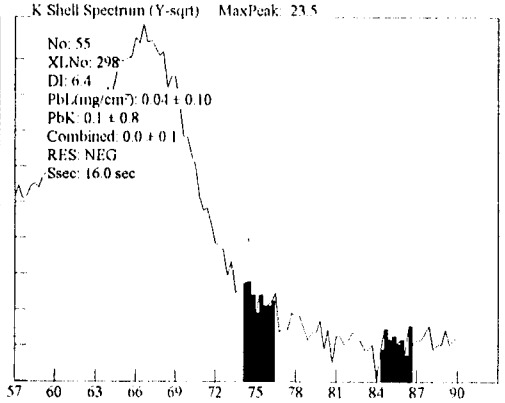

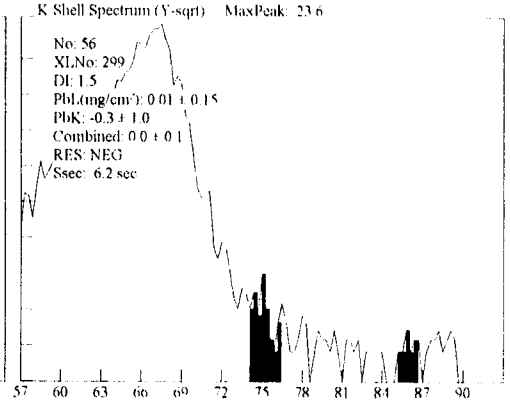

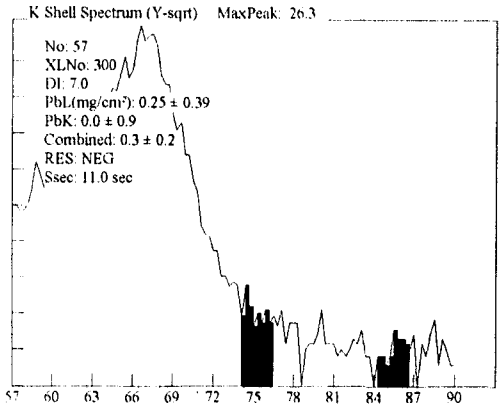

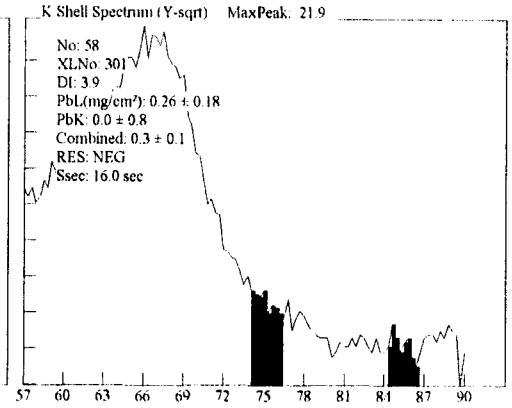

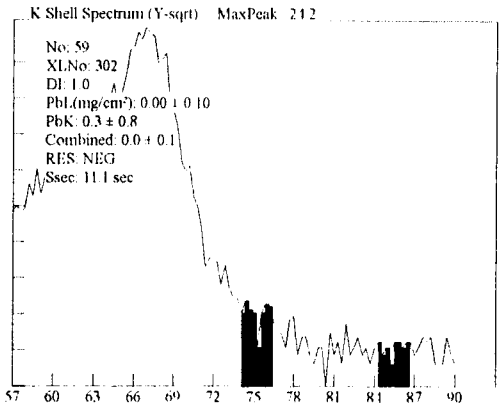

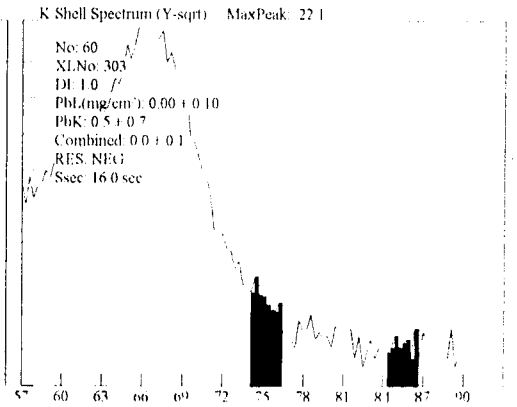

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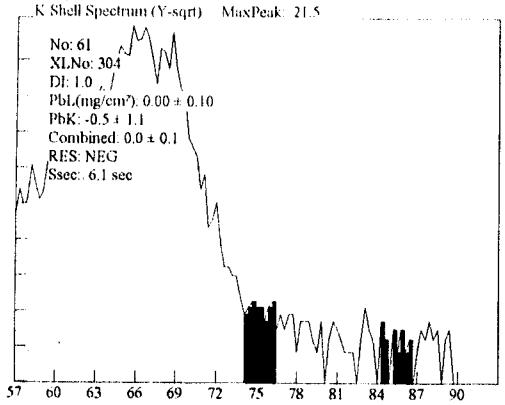

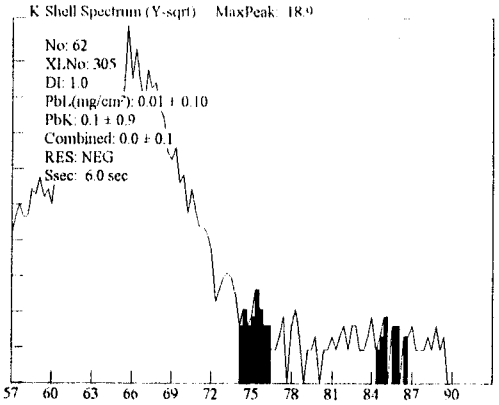

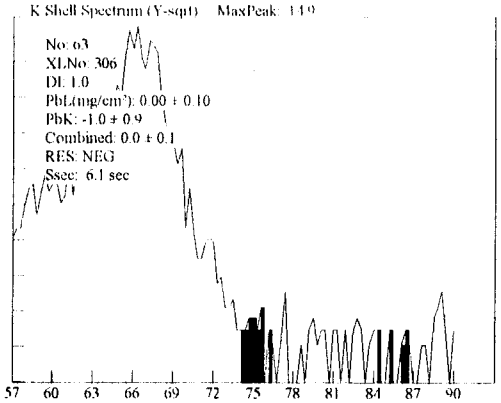

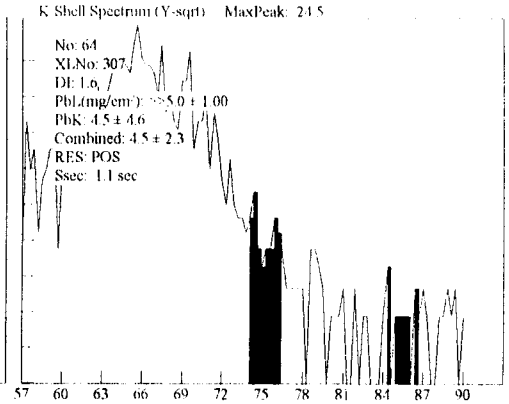

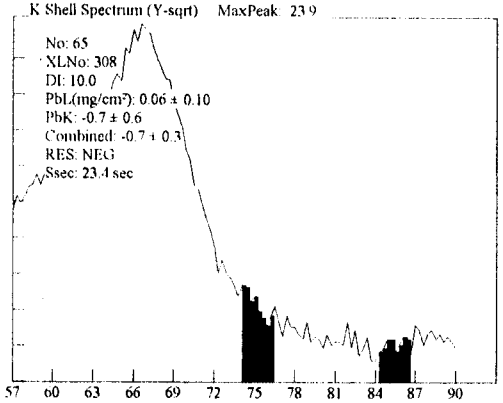

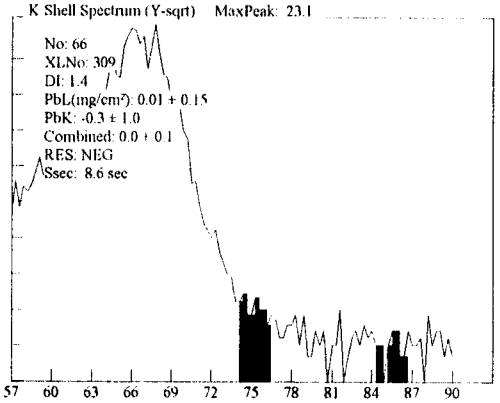

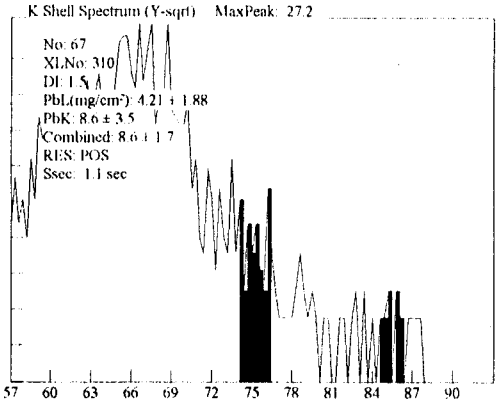

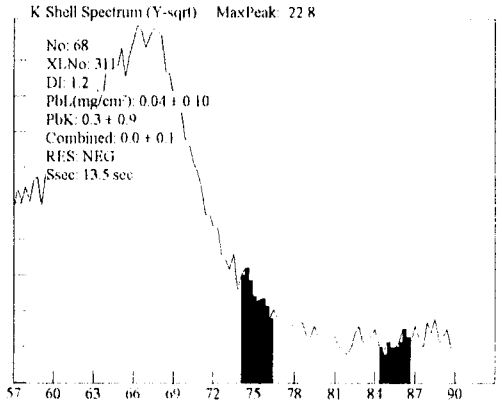

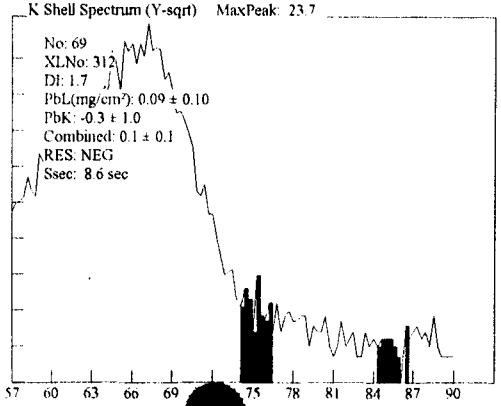

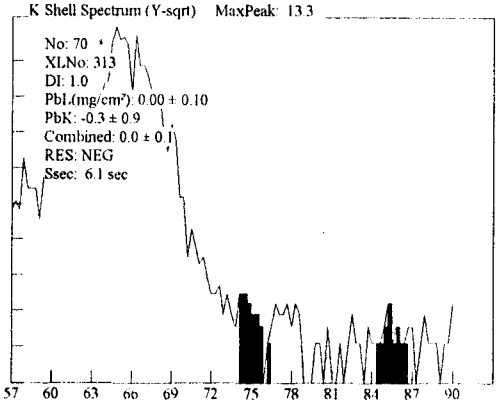

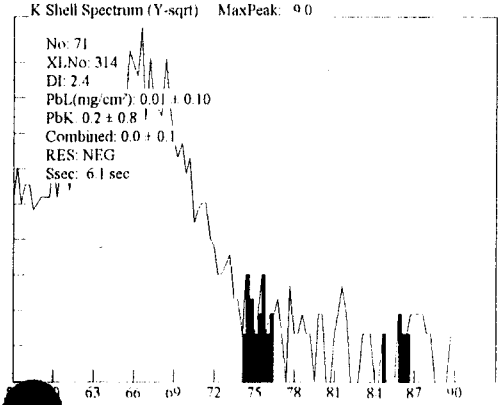

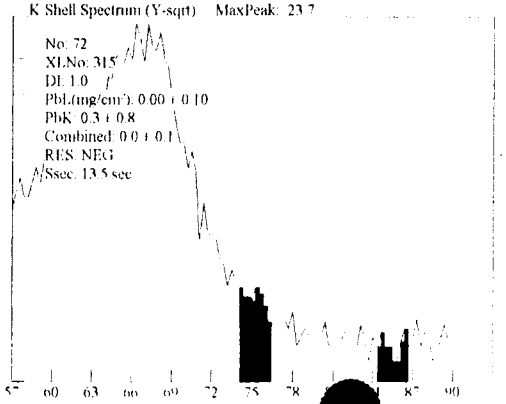

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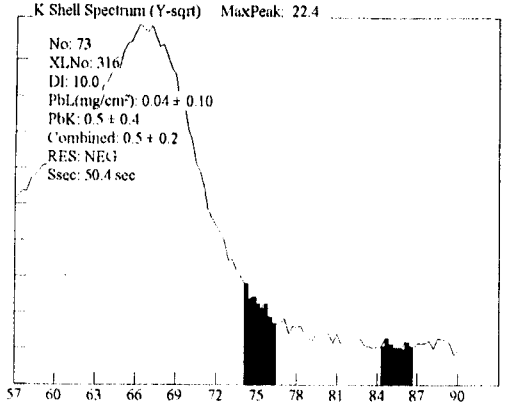

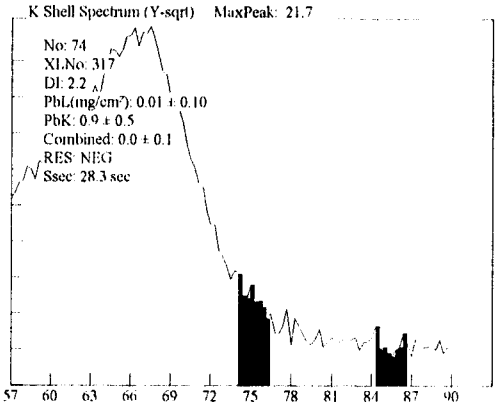

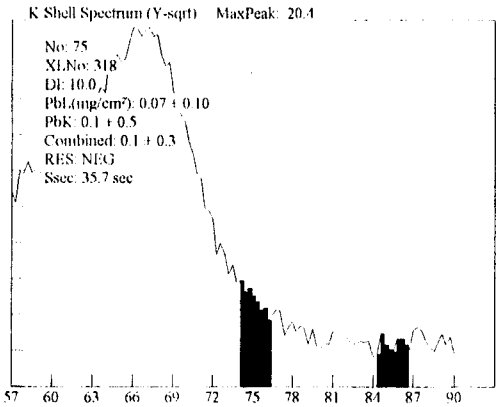

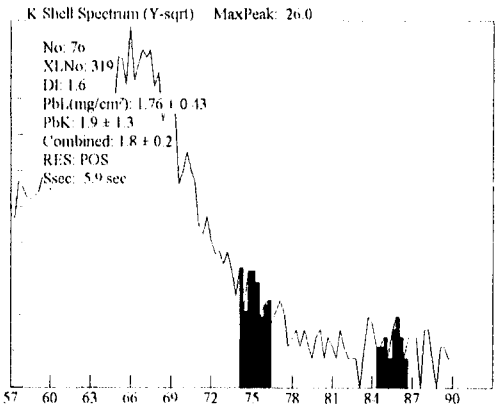

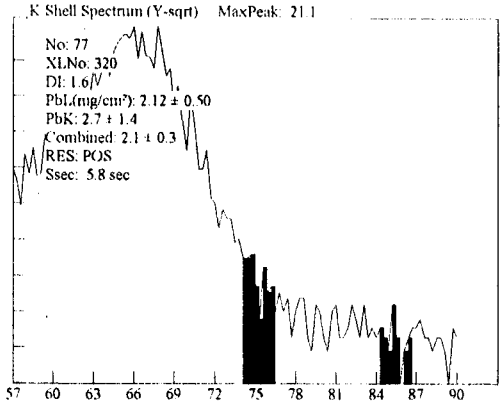

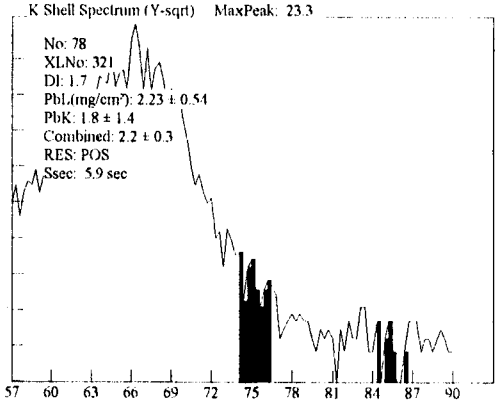

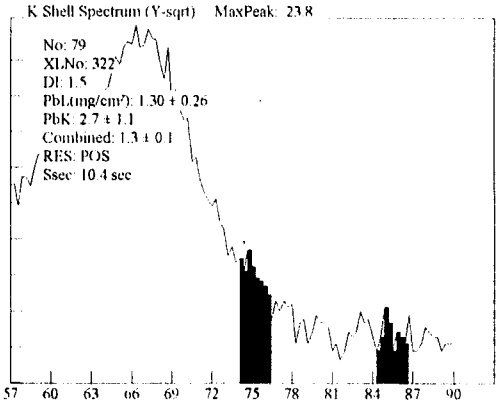

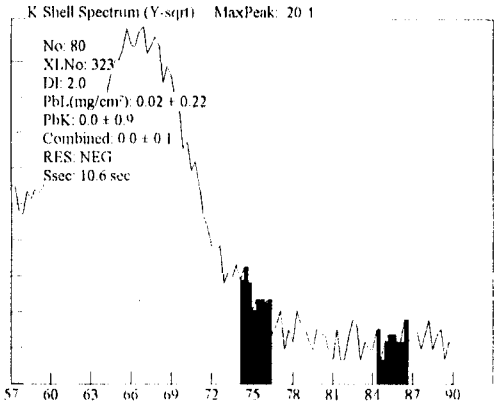

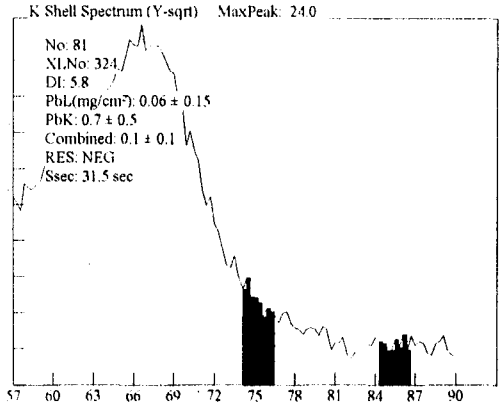

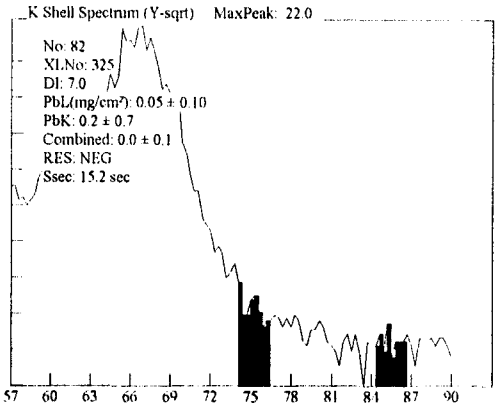

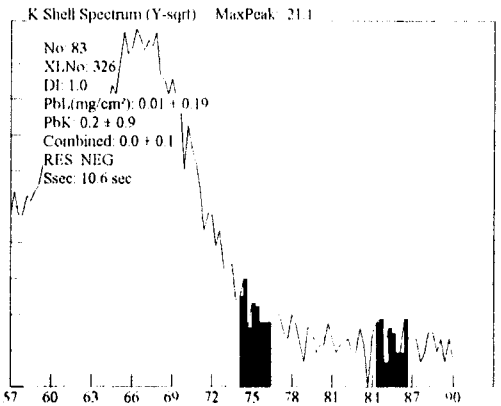

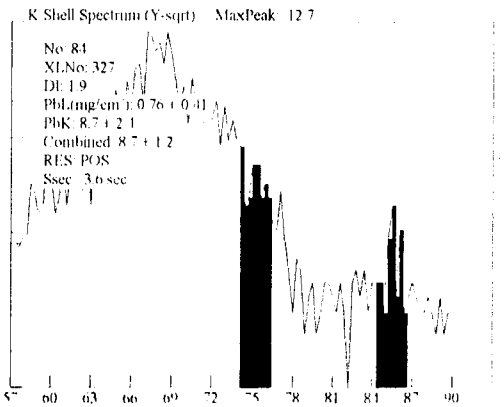

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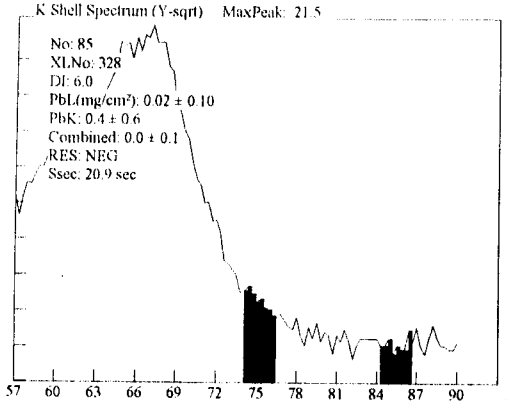

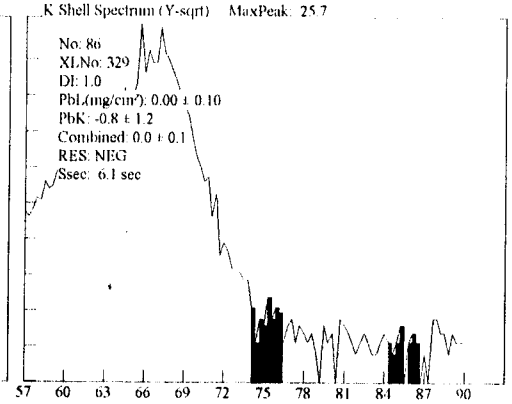

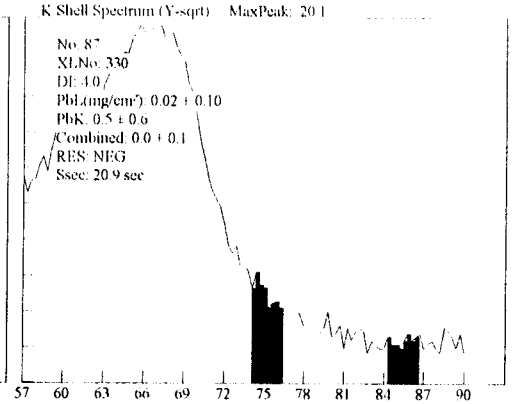

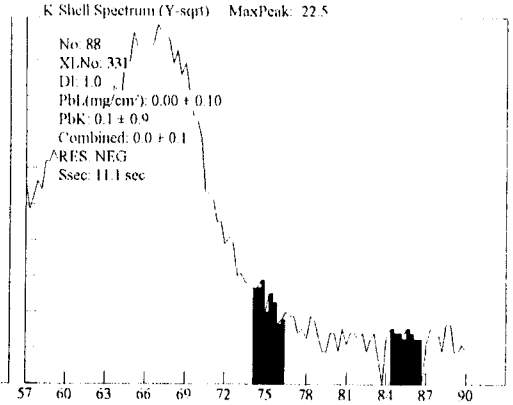

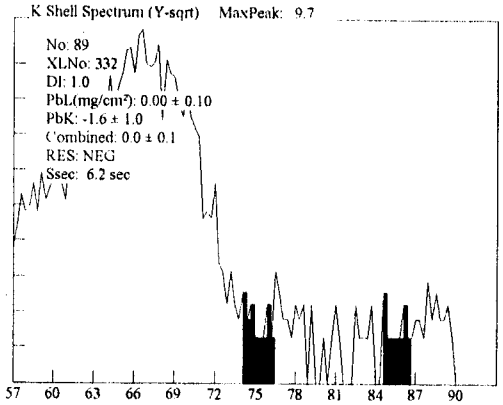

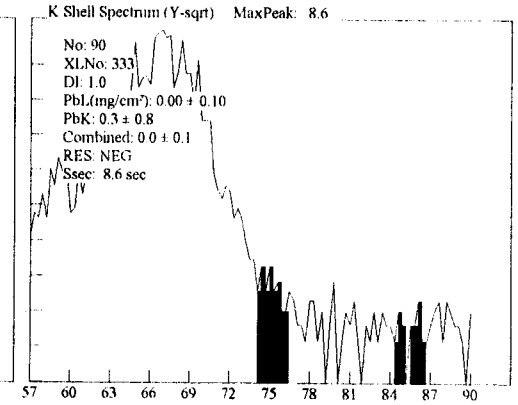

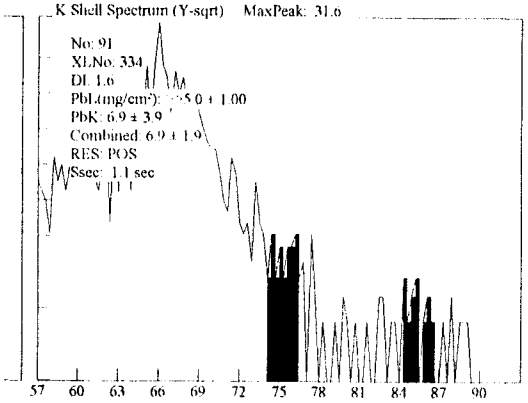

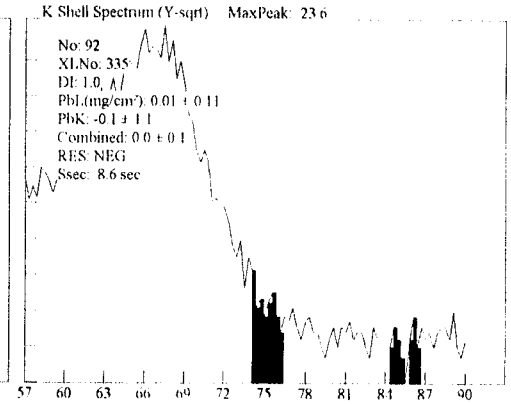

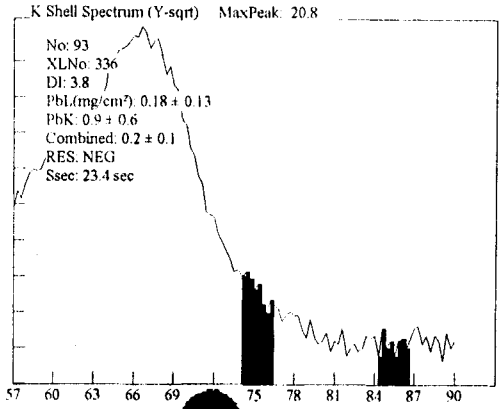

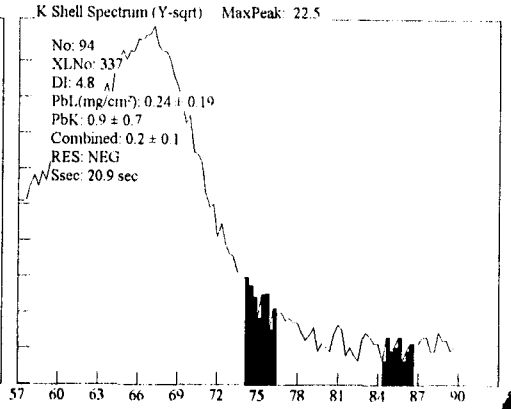

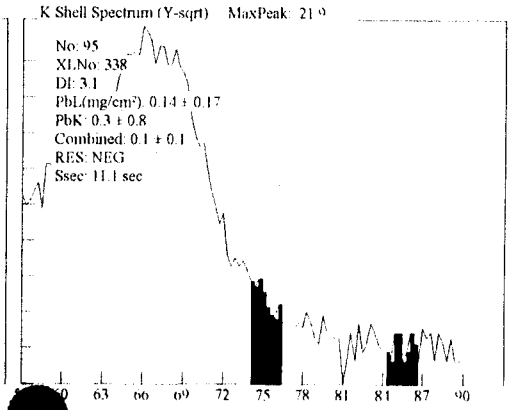

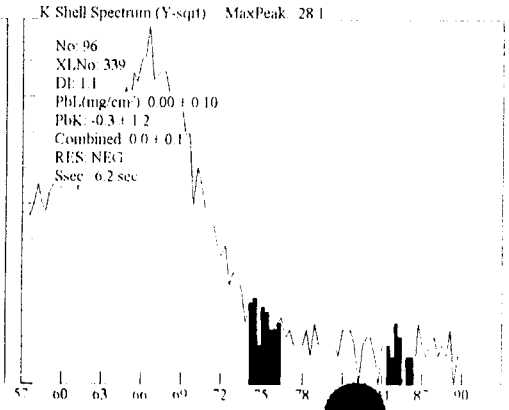

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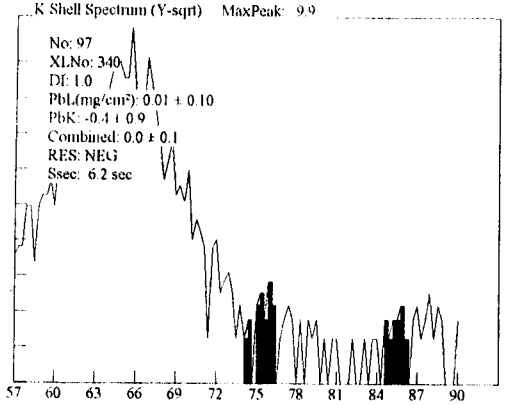

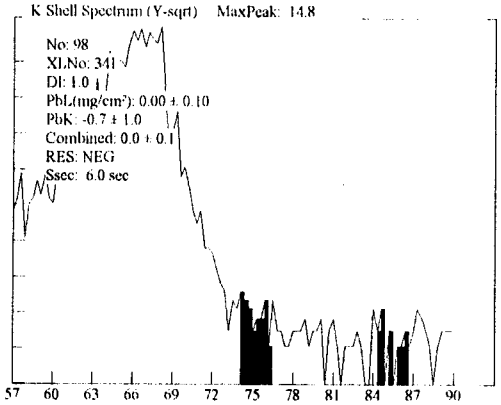

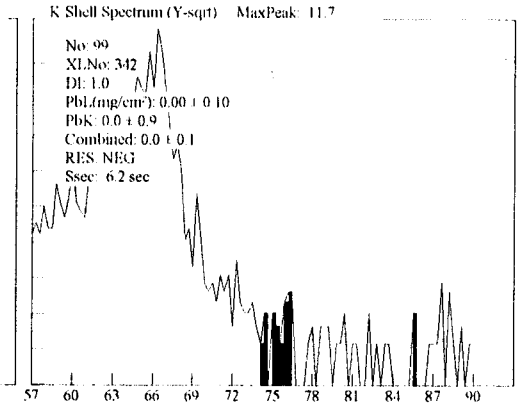

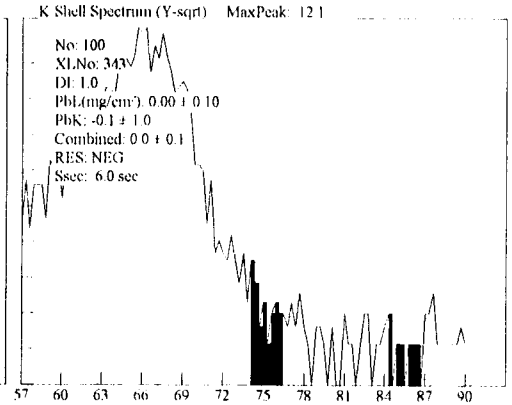

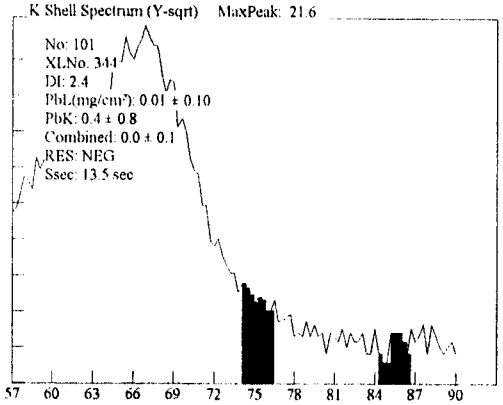

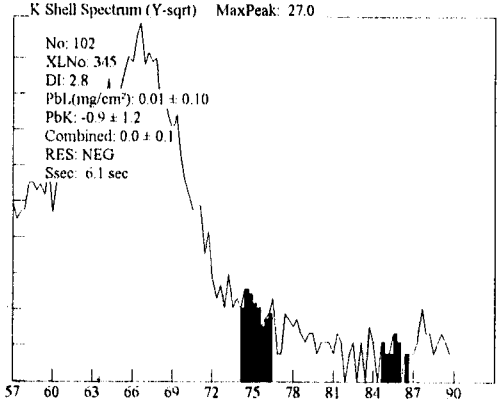

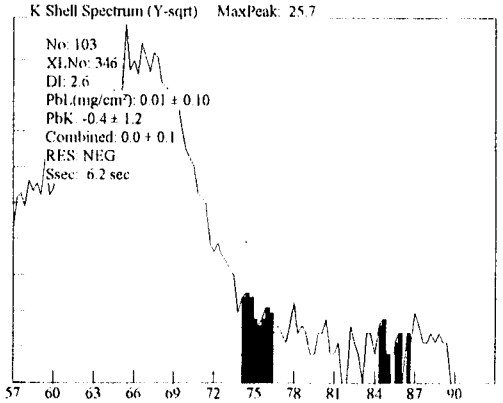

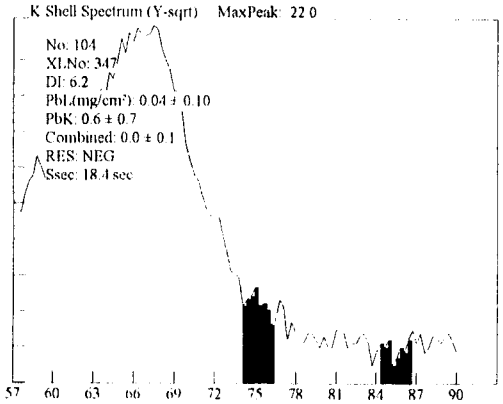

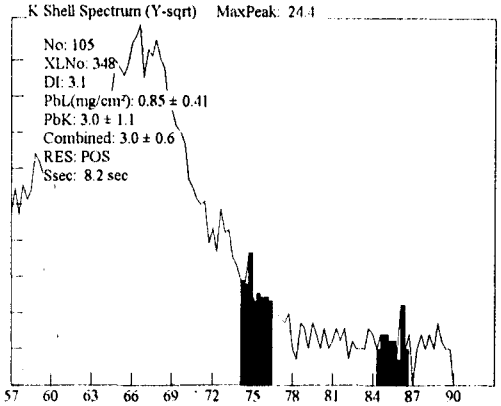

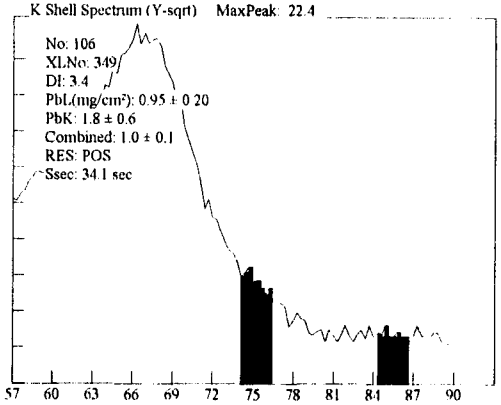

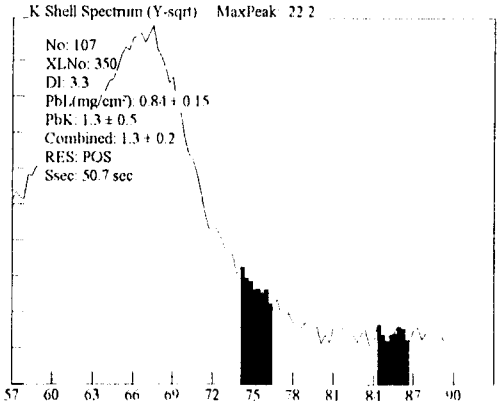

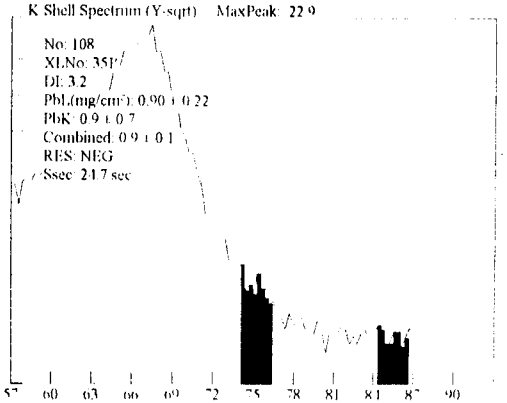

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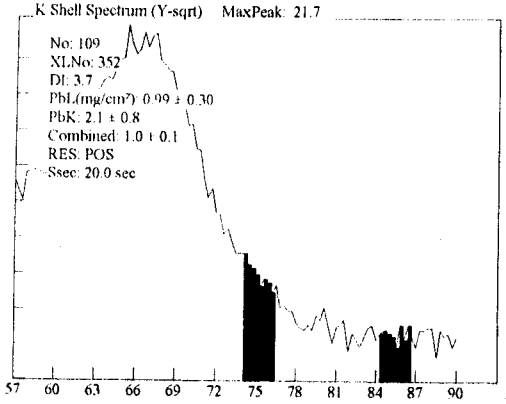

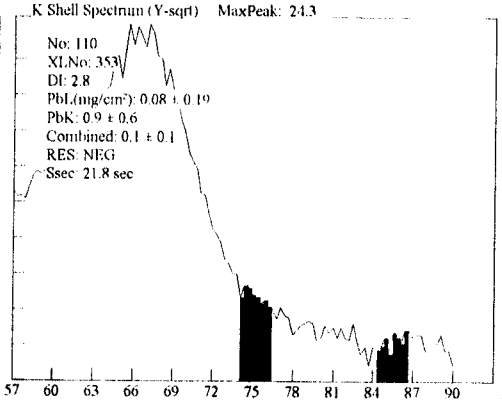

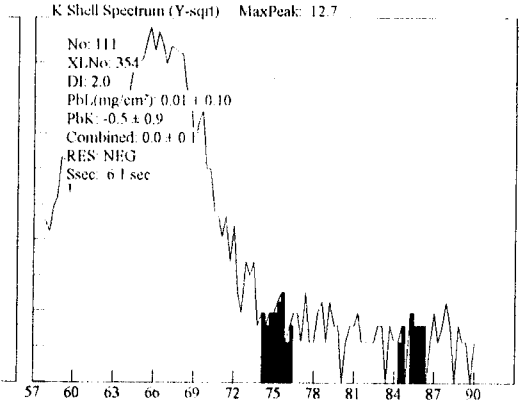

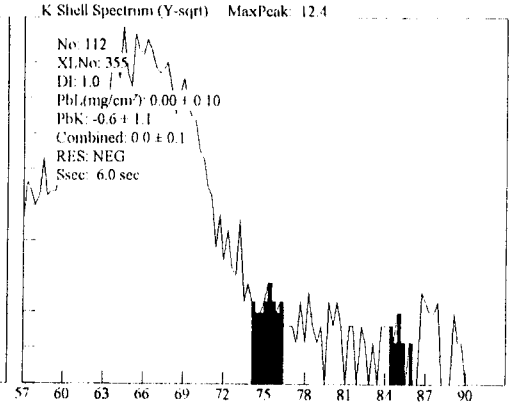

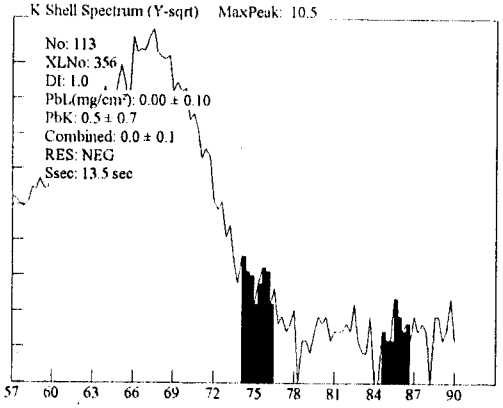

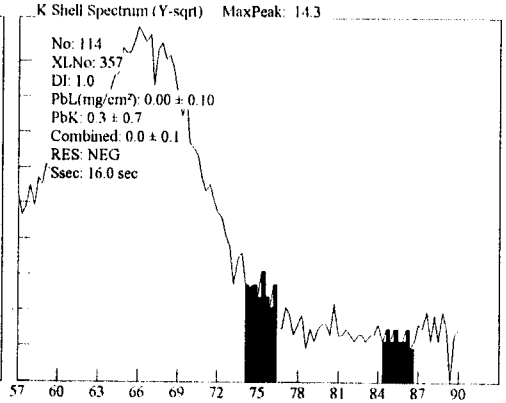

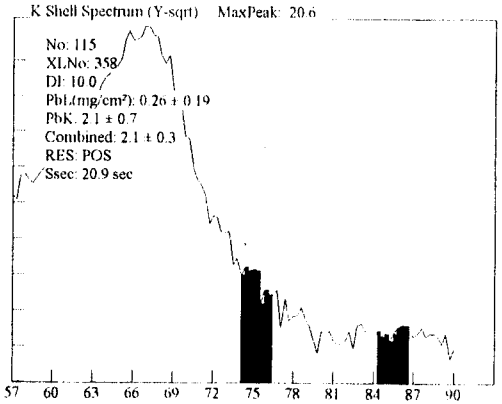

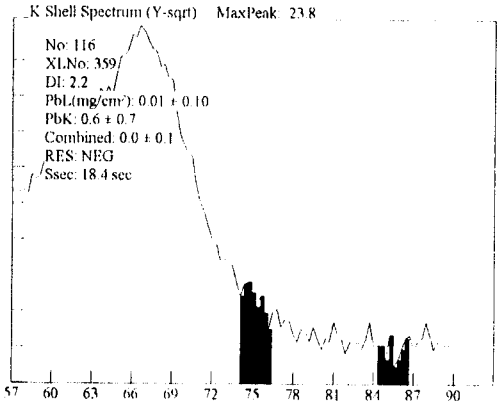

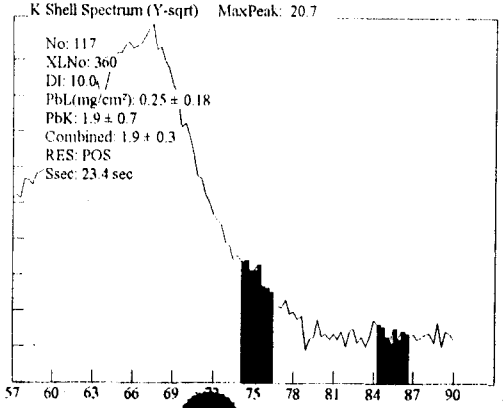

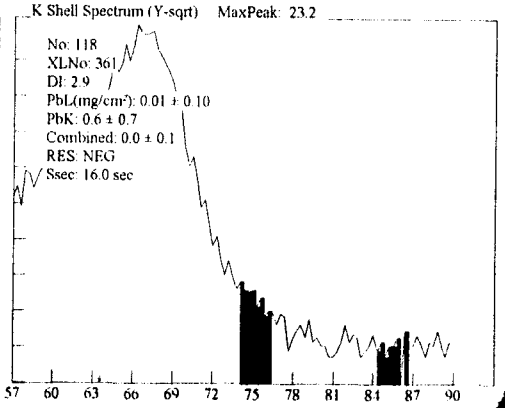

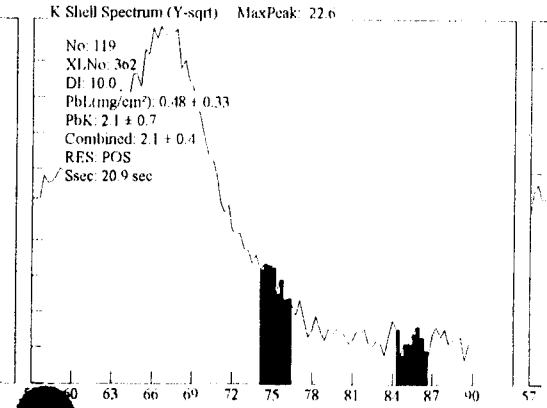

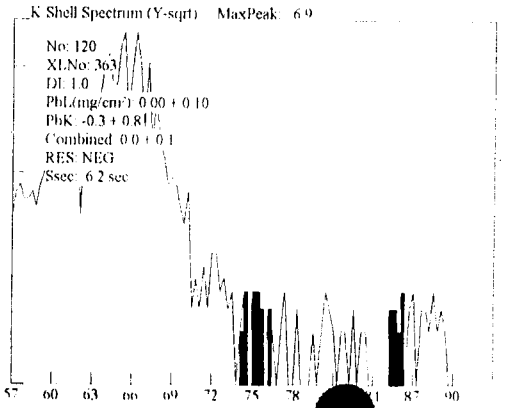

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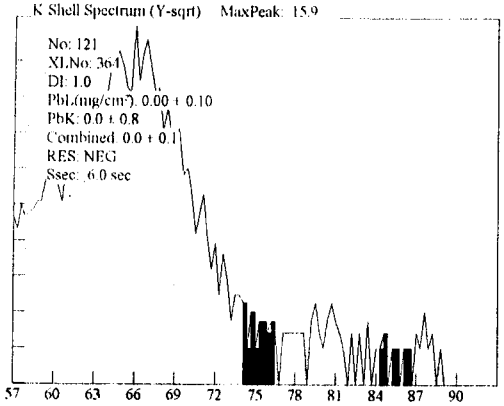

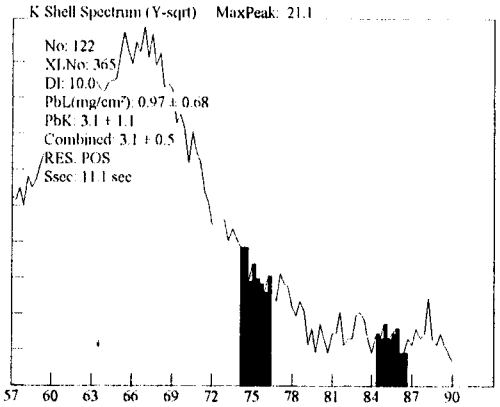

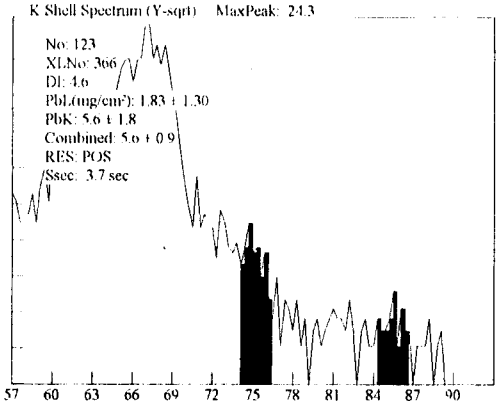

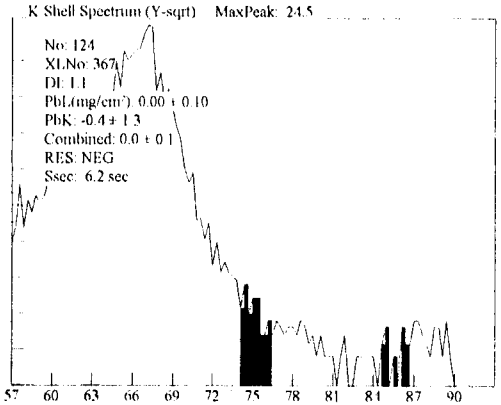

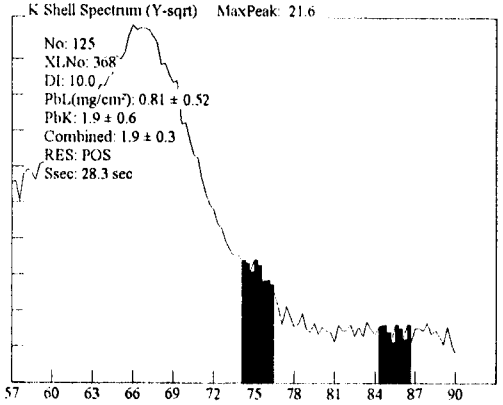

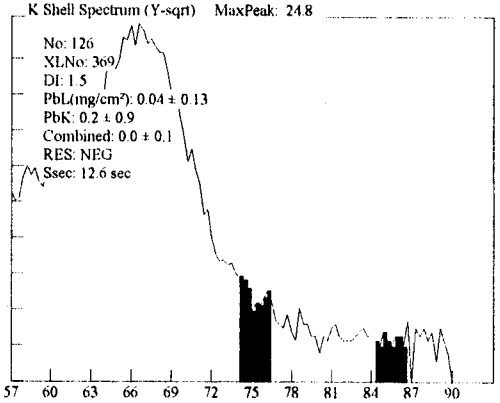

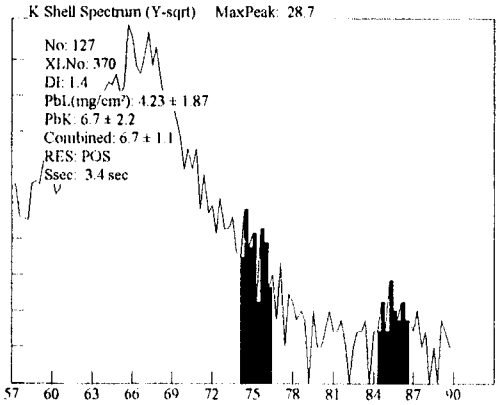

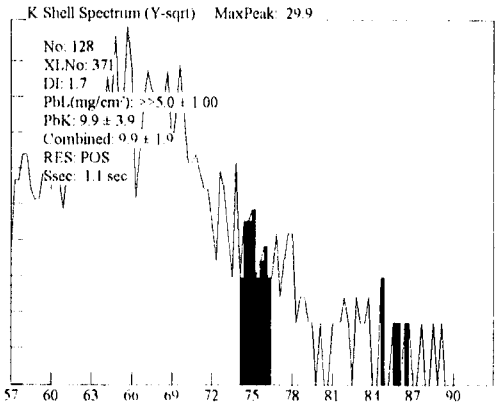

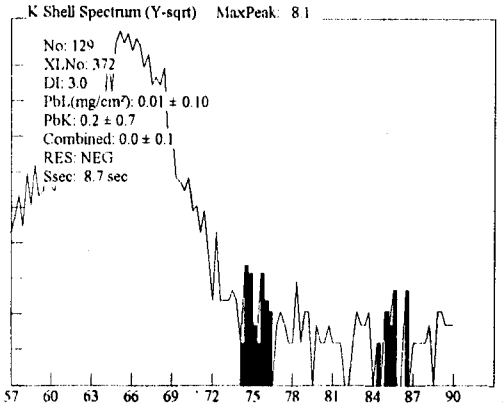

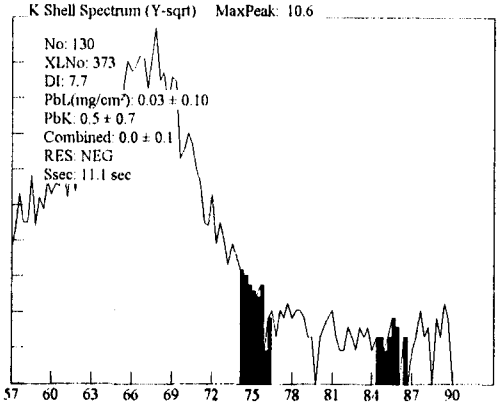

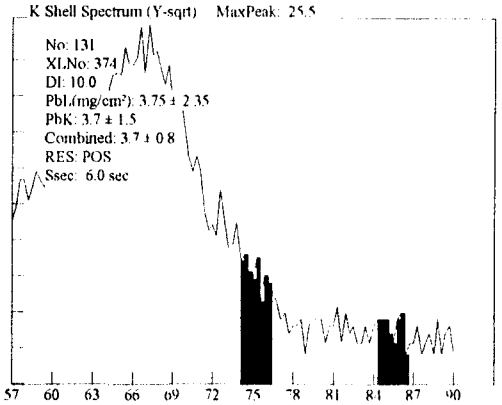

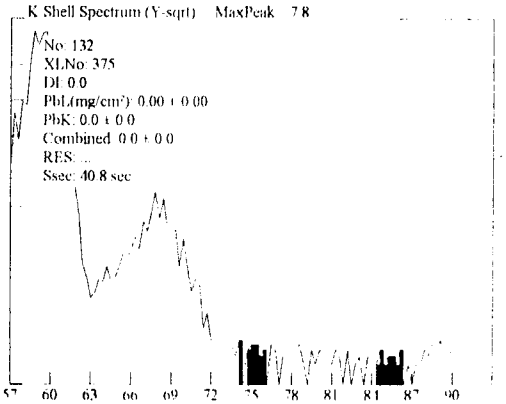

445B

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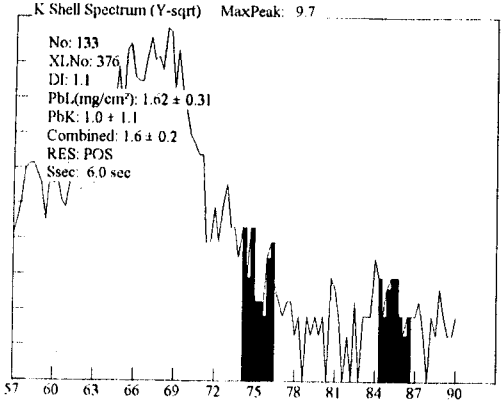

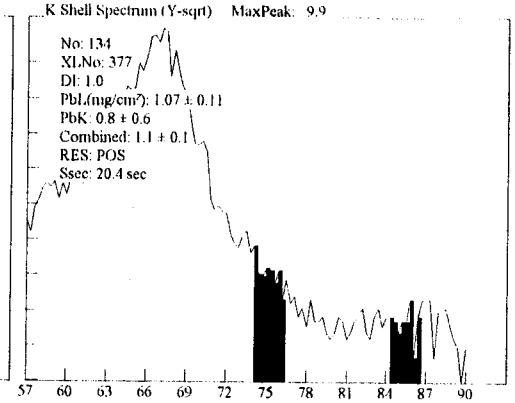

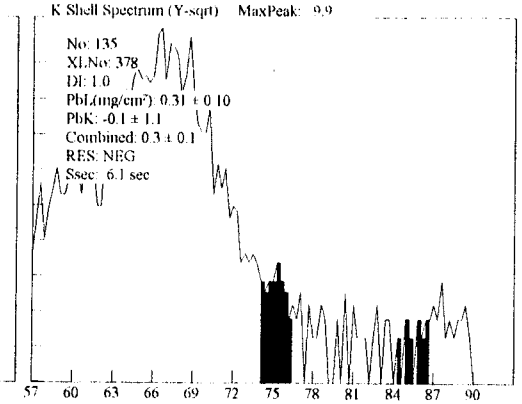

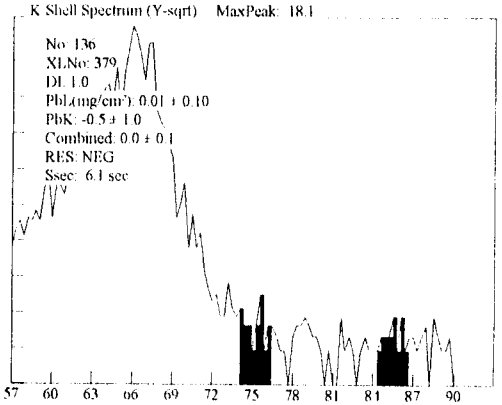

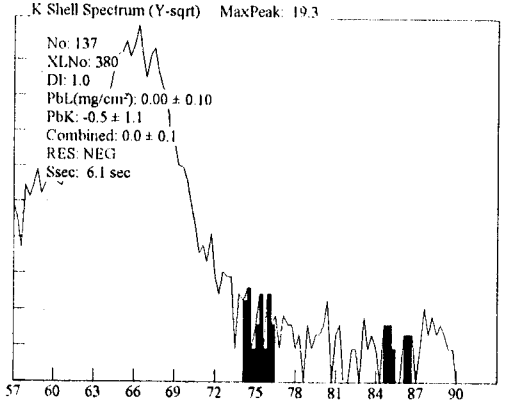

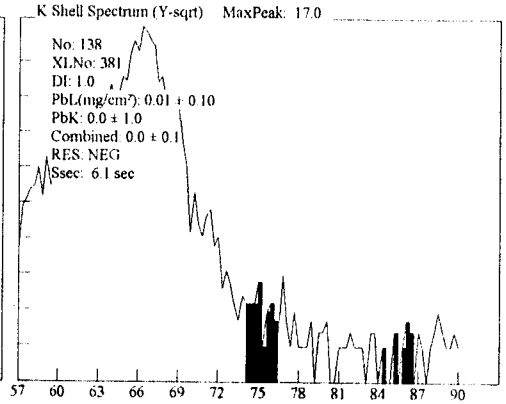

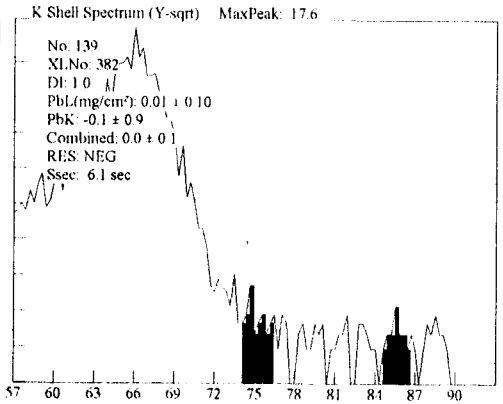

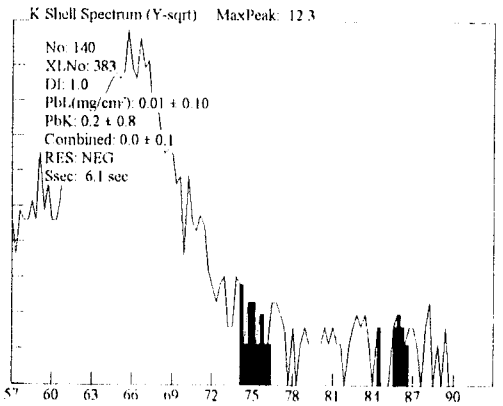

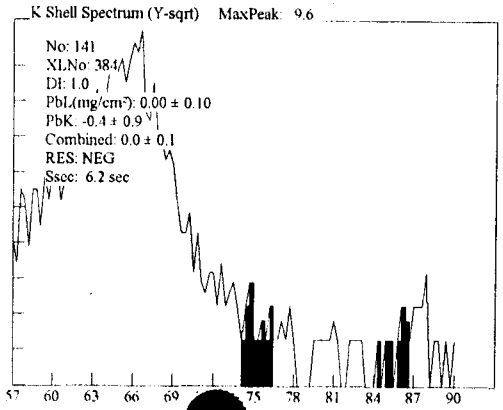

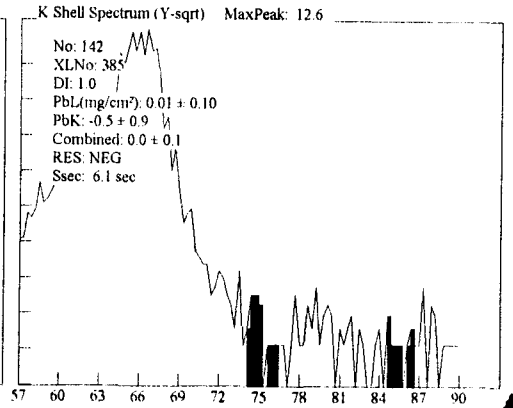

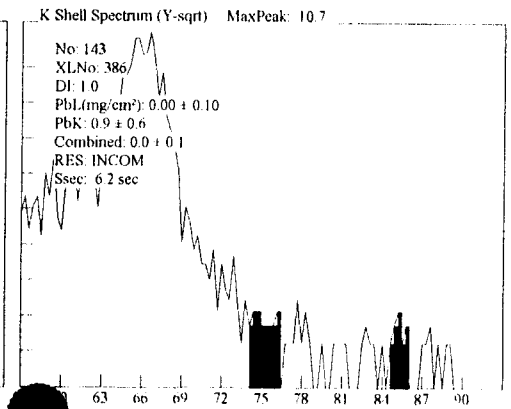

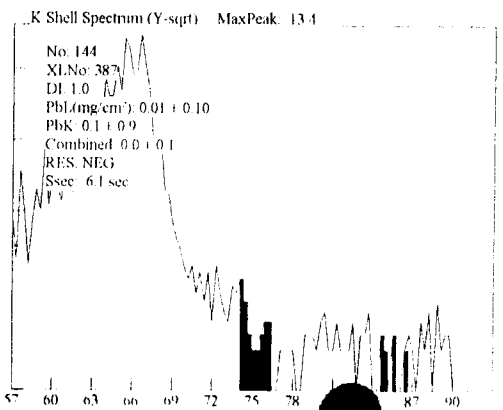

445B

Site: Ranges (NEG<INC<POS): Device PCS

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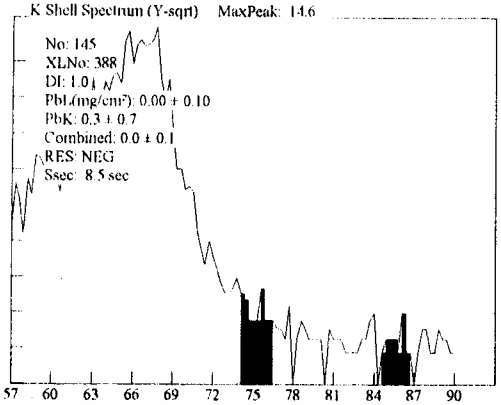

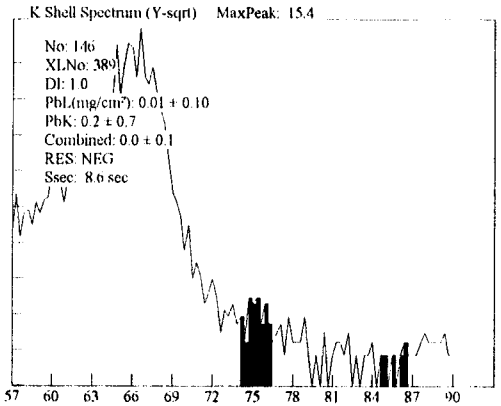

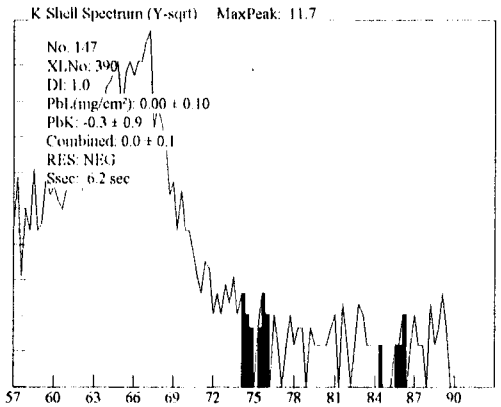

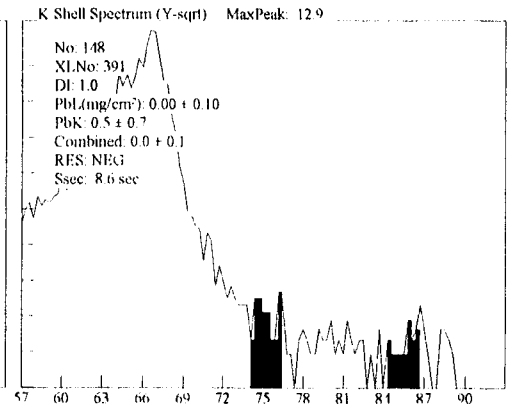

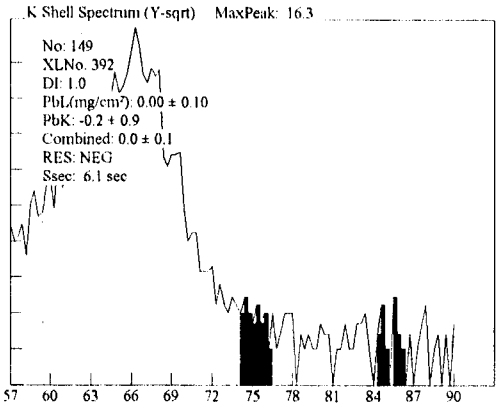

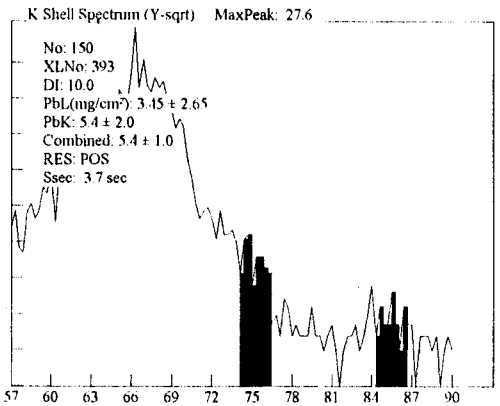

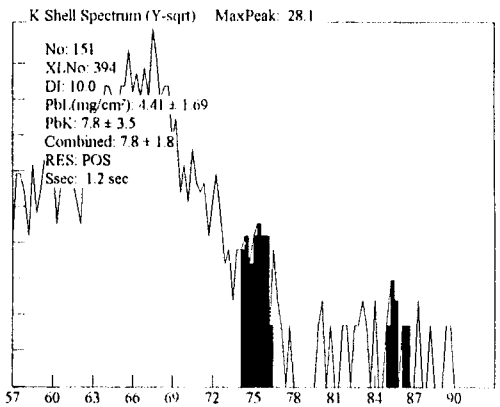

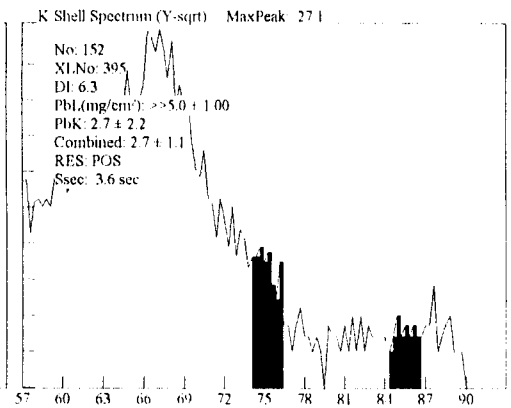

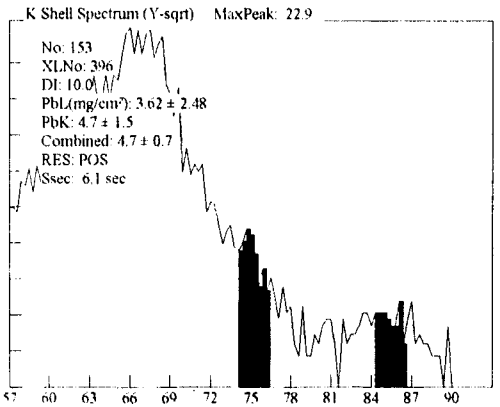

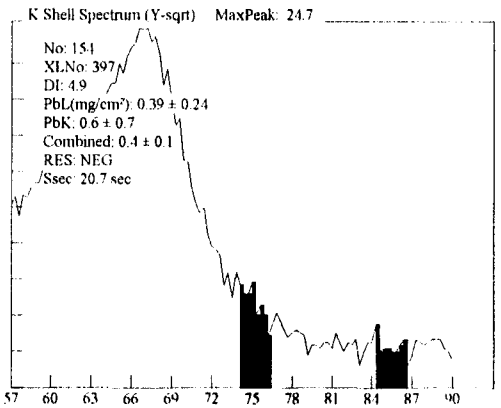

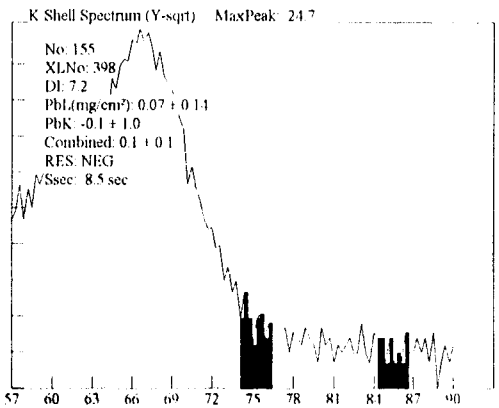

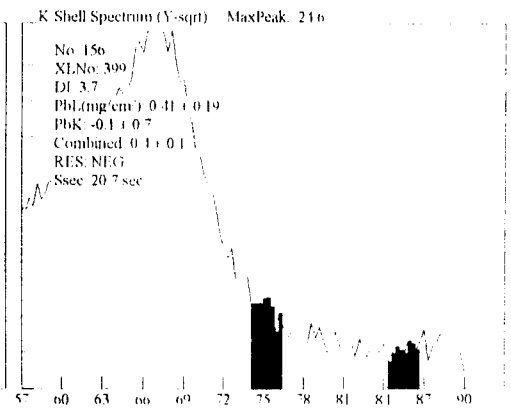

445B

Site: Ranges (NEG<INC<POS): Device PCS

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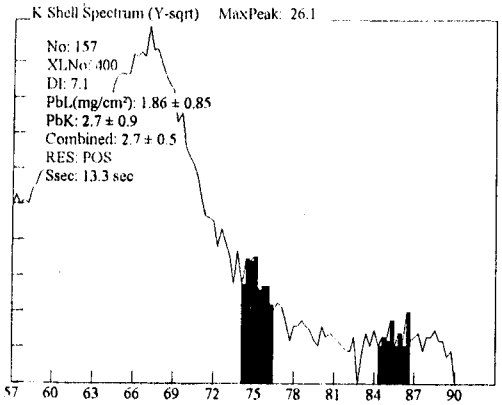

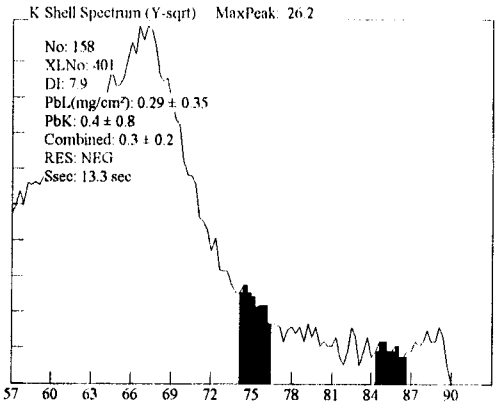

BUILDING 446

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 446

A lead-based paint inspection and risk assessment was conducted at Building 446, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

This building was occupied with tenants in both of the housing units. This building has fair maintenance performed throughout the building. This building is separated into two apartments, namely 446A and 446B; however, this report will represent both units as one building.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 317 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Thirty-six (36) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. No paint chip samples were collected to confirm the lead concentration of any paint. The results of the XRF are summarized by building component in the following pages.

The presence of lead-based paint was found in Building 446. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

Unit 446A

1. Laundry Room Ceramic Floor Tiles
2. Laundry Room Ceramic Baseboard
3. Balcony Storage Room Ceramic Floor Tiles
4. Kitchen Ceramic Wall Tiles
5. Living Room Ceramic Floor Tiles
6. Hallway Ceramic Floor Tiles
7. Room No. 1 Ceramic Floor Tiles
8. Room No. 1 Ceramic Baseboard
9. Room No. 1 Closet Ceramic Floor Tile
10. Bathroom Ceramic Wall Tiles
11. Bathroom Ceramic Floor Tiles
12. Bathroom Tub
13. Room No. 2 Ceramic Baseboard
14. Room No. 2 Ceramic Floor Tile
15. Den Ceramic Floor Tiles
16. Den Ceramic Baseboard
17. Exterior Walls
18. Exterior Closet Walls

Unit 446B

1. Stairway Foyer Ceramic Floor Tile
2. Stairway Foyer Ceramic Baseboard
3. Living Room Ceramic Floor Tiles
4. Kitchen Ceramic Wall Tiles
5. Kitchen Balcony Ceramic Baseboard
6. Kitchen Balcony Ceramic Floor Tile
7. Kitchen Balcony Storage Room Ceramic Baseboard
8. Kitchen Balcony Storage Room Ceramic Floor Tile
9. Hallway Ceramic Floor Tile
10. Room No. 1 Ceramic Baseboard
11. Room No. 1 Ceramic Floor Tiles
12. Bathroom Ceramic Wall Tiles
13. Bathroom Ceramic Floor Tiles
14. Room No. 2 Ceramic Baseboard
15. Room No. 2 Ceramic Floor Tile
16. Den Ceramic Baseboard
17. Den Ceramic Floor Tiles
18. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. There was no deteriorated paint within the units; thus, no dust wipe samples were conducted on the interior of the housing units. To evaluate the potential dust that may enter the housing unit, two (2) wipe samples were collected from unit 446A. These samples were entrance wipes. No entrance wipe samples were collected from unit 446B. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. None of the wipe samples were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. The soil sample was reported to contain a low lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report. .

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Deteriorated exterior walls

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in good condition. The paint deterioration is limited to the exterior paint on the walls and exterior items. There are many building components, which contain lead, such as the wall and floor tiles. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust on the building's exterior.
3. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
4. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
5. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
6. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished.
7. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
8. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
9. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

BUILDING DATA

446 A

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

reviewed by MMO

15 Apr 00 MO

Client Name: Baker Environmental	Project Name: U.S. Navy Stop 7[1/2] Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1227	Calibration					446A	pos.
PB-1228	Calibration					446A	neg.
PB-1229	Calibration					446A	pos.
PB-1237	Balcony laundry (12 x 12) ceramic tile	white		concrete	1	446A	pos.
PB-1238	Balcony laundry (baseboard ceramic tile)	white		concrete	1	446A	pos.
PB-1245	Balcony storage room (ceramic tile)	white		concrete	1	446A	pos.
PB-1256	Kitchen wall (8" x 6") ceramic tile	gray	A	concrete	1	446A	pos.
PB-1273	Living room (ceramic tile 12" x 12")	white/gray	D	concrete	1	446A	pos.
PB-1284	Hallway ceramic floor tile (12" x 12")	white/gray		concrete	1	446A	pos.
PB-1289	Room #1 floor tile 12" x 12"	white/gray		concrete	1	446A	pos.
PB-1290	Room #1 baseboard 12" x 4"	white/gray	C	concrete	1	446A	pos.
PB-1299	Room #1 closet ceramic floor tile 12" x 12	white/gray	A	concrete	1	446A	pos.
PB-1311	Bathroom wall ceramic tile 6" x 6"	peach	A	concrete	1	446A	pos.
PB-1312	Bathroom ceramic floor tile 8" x 8"	dark peach	A	concrete	1	446A	pos.
PB-1313	Bathroom tub	white		metal	1	446A	pos.
PB-1327	Room #2 ceramic baseboard 12" x 4"	white/gray	C	concrete	1	446A	pos.
PB-1328	Room #2 ceramic floor tile 12" x 12"	white/gray	C	concrete	1	446A	pos.
PB-1338	Room #2 ceramic floor tile 12" x 12"	white/gray		concrete	1	446A	pos.
PB-1354	Den ceramic floor tile 12" x 12"	white/gray		concrete	1	446A	pos.
PB-1355	Den ceramic baseboard 12" x 4"	white/gray		concrete	1	446A	pos.
PB-1368	Exterior wall	white	D	concrete	1	446A	pos.
PB-1370	Exterior wall	white	A	concrete	1	446A	pos.

BAKER EN. .ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

446A

Client Name: Baker Environmental Company	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: EAC-08	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1371	Exterior wall trim	blue	A	concrete	1	446A	pos.
PB-1372	Exterior wall	off white	B	concrete	1	446A	pos.
PB-1373	Exterior wall	white	B	concrete	1	446A	pos.
PB-1379	Exterior closet water heater wall	white	C	concrete	1	446A	pos.
PB-1381	Exterior closet water heater wall	white	D	concrete	1	446A	pos.
PB-1383	Calibration					446A	pos.
PB-1385	Calibration					446A	pos.
PB-1386	Calibration					446A	pos.

Reviewed & Approved

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1227	Cal Ver.					446A	Pos	1.1
1228	Cal ver.					"	Neg	.9
1229	Cal Ver					"	Pos	1.0
1230	entrance step *	blue	A	Conc	1	"	N	
1231	Entrance step raise	blue	A	Conc	"	"	N	
1232	Balcony/ laundry wall	white	A	Conc	"	"	N	
1233	Balcony/ laundry	"	B	"	"	"	N	
1234	" wall	"	C	/	"	"	N	
1235	" wall	"	D	"	"	"	N	
1236	Balcony/ Laundry top = rest	blue	A	"	"	"	N	
1237	Balcony/laundry conc tile 12"x12"	white		conc.	"	"	P	4.4
1238	baseboard ceramic	"		"	"	"	P	4.1
1239	balcony/ storage room wall	white	A	conc	"	"	N	
1240	" wall	"	B	"	"	"	N	

* replace balcony with porch

446A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1241	balcony storage room wall	white	C	Conc	1	446A	N
1242	"	"	D	"	"	2	N
1243	balcony storage room shelve 2	white	A	wood	1	"	N
1244	balcony storage room shelve base 3	"	"	"	"	"	N
1245	balcony storage 12x room ceramic tile 12	white		Conc	"	"	P
1246	balcony storage door	Brown	C	wood	1	1	N
1247	balcony storage sidejamb	white	C	" "	1	"	N
1248	" " Head jam	white	C	" "	1	"	N
1249	Kitchen door entrance	Brown	A	wood	1	1	N
1250	Side jam	white	A	" "	1	1	N
1251	Kitchen door entrance Head jam	~~bro~~ white	A	" "	1	1	N
1252	kitchen wall	white	A	Conc	"	"	N
1253	"	"	B	Conc	"	"	N
1254	"	"	C	Conc	"	"	N

4.6

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

4464

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1255	kitchen wall	white	D	conc	1	4464	N
1256	kitchen wall ceramic tile 8"x6"	gray	A	conc	"	"	P
1257	kitchen floor ceramic tile 10x10	white		conc	"	"	N
1258	kitchen fuse box	gray	B	metal			N
1259	kitchen pantry room	white	A	conc.	"	"	N
1260	"	"	B	"	"	"	N
1261	"	"	C	"	"	"	N
1262	"	"	D	"	"	"	N
1263	kitchen pantry 10" ceramic floor tile 10	white		conc	"	"	N
1264	kitchen pantry door	wood	D	wood	"	"	N
1265	kitchen pantry jamb	white	D	wood	"	"	N
1266	head jamb	white	D	wood	"	"	N
1267	kitchen window casing	dark brown	A	metal	"	"	N
1268	kitchen window rail	"	"	"	"	"	N

1.5 1/2 + down

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1269	living room wall	white	A	conc.	1	446A	N
1270	"	"	B	"	"	"	N
1271	"	"	C	"	"	"	N
1272	"	"	D	"	"	2	N
1273	living room ceiling 12x12	white/gray	"	"	"	"	POS
1274	baseboard	white	C	"	"	"	N
1275	living room chair rail	"	B	wood	"	"	N
1276	living room casing window 3	dark brown	D	metal	"	"	N
1277	living room rail window 3	"	D	metal	"	"	N
1278	Hallway	white	A	conc	"	"	N
1279	Hallway	"	B	conc	"	"	N
1280	"	"	C	"	"	"	N
1281	"	"	D	conc	"	"	N
1282	Hallway chair rail	"	B	wood	"	"	N

4.9

446 A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	**PROJECT NAME**
SAMPLING METHOD	**JOB:** / **DATE:**

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1283	Baseboard Hallway	white	D	Conc	1	446A	N	
1284	Hallway ceramic floor tile 12x12	gray/white		Conc	"	"	P	4.4
1285	Room 1 wall	white	A	"	"	"	N	
1286	room 1 wall	"	B	"	"	"	N	
1287	room 1 wall	"	C	"	"	"	N	
1288	"	"	D	"	"	"	N	
1289	room 1 ceramic floor tile 12x12	gray/white		"	"	"	Pos	4.6
1290	room 1 ceramic baseboard 12x4	gray/white	C	"	"	"	POS	3.6
1291	room 1 chair rail	white	C	wood	"	"	N	
1292	room 1 closet wall	white	A	conc	"	"	N	
1293	"	"	B	"	"	"	N	
1294	"	"	C	"	"	"	N	
1295	"	"	D	"	"	"	N	
1296	room 1 closet chelve	"	C	wood	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1297	room 1 closet shelve base	white	D	wood	1	446A	N	Null unconfirmed positive
1298	"	"	"	"	"	"	N	
1299	room 1 closet floor c.tile 12x12	white/gray	~~N~~ "	conc	"	"	POS	3.5
1300	room 1 closet door jamb	white	C	wood	"	"	N	
1301	room 1 closet head jamb	"	C	"	"	"	N	
1302	room 1 window casing 2	dark brown	B	metal	"	"	N	
1303	room 1 window rail 2	dark brown	B	metal	"	"	N	
1304	room 1 entrance door	wood	C	wood	"	"	N	
1305	room 1 door jamb	white	C	"	"	"	N	
1306	room 1 door head	"	"	"	"	"	N	
1307	Bathroom wall	white	A	conc	"	"	N	
1308	"	"	B	"	"	"	N	
1309	"	"	C	"	"	"	N	
1310	"		D	"	"	"		

446A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1311	bathroom wall ceramic tile 6x6	peach	A	conc	1	446A	POS	1.8 1/2 to down
1312	bathroom floor ceramic tile 6x6	dark peach		conc	"	"	POS	1.4
1313	bathroom tub	white		metal	"	"	POS	1.3
1314	bathroom toilet tank ceramic	white		conc	"	"	N	
1315	bathroom toilet base ceramic	"		"	"	"	N	
1316	bathroom shelve base	white	C	wood	"	"	N	
1317	bathroom window casing	dark brown	B	metal	"	"	N	
1318	bathroom window rail	dark brown	B	metal	"	"	N	
1319	bathroom ceramic sink	white		conc	"	"	N	
1320	bathroom door	wood	D	wood	"	"	N	
1321	" jamb	white	D	"	"	"	N	
1322	" head	white	"	"	"	"	N	
1323	room 2 wall	"	A	conc	"	"	N	
1324	"	"	B	conc	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1325	room 2 wall	white	C	conc	1	446B	N	
1326	"	"	D	"	1	"	N	
1327	room 2 12" x 9" cer. baseboard	gray white	C	conc	"	"	POS	7.0
1328	room 2 cer. fl. tile 12x12	"		conc	"	"	POS	5.6
1329	room 2 chair rail	white	A	wood	"	"	N	
1330	room 2 window casing 2	dark brown	C	metal	"	"	N	
1331	room 2 window rail 2	dark brown	C	metal	"	"	N	
1332	room 2 closet wall	white	A	conc	"	"	N	
1333	"	white	B	conc	"	"	N	
1334	"	white	C	conc	"	"	N	
1335	"	white	D	conc	"	"	N	
1336	room 2 closet shelf	white	A	wood	"	"	N	
1337	room 2 closet shelf base	"	"	"	"	"	N	
1338	room 2 cer. floor tile 12"x12"	gray/white		conc.	"	"	POS	2.

446A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1339	room 2 closet door	wood	A	wood	1	446B	N
1340	room 2 closet door jamb	white	"	"	"	"	N
1341	room 2 closet door head	white	"	"	"	"	N
1342	room 2 door	wood	"	"	"	"	N
1343	room 2 door jamb	white	"	"	"	"	N
1344	room 2 door head	white	"	"	"	"	N
1345	den wall	"	A	conc	"	"	N
1346	"	"	B	conc	"	"	N
1347	"	"	B	wood ~~conc~~	"	"	N
1348	"	"	C	conc ~~conc~~	"	—	N
1349	den wall	white	D	conc ~~wood~~	"	"	N
1350	den wall	"	A	wood	"	"	N
1351	den closet frame	white	B	wood			N
1352	den closet shelve	white	B	wood	"	"	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1353	den closet shelf base	white	B	wood	1	446B	N	
1354	den ceramic Floor tile 12x12	gray white		conc	"	"	POS	8.3
1355	den ceramic baseboard 12x4	"	C	"	"	"	POS	4.7
1356	den exit door	wood	D	wood	"	"	N	
1357	den exit door jamb	white	"	"	"	"	N	
1358	door exit door check	"	"	"	"	"	N	
1359	door	wood	A	wood	"	"	N	
1360	door jamb	wood ~~white~~	A	"	"	"	N	
1361	door head	wood	A	"	"	"	N	
1362	den window casing 3	dark brown	C	metal	"	"	N	
1363	den window rail 3	dark brown	C	metal	"	"	N	
1364	den exterior step	gray	D	conc	"	"	N	
1365	den exterior step raise	gray	D	conc	"	"	N	
1366	Exterior wall	white	C	conc	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1367	Exterior wall trim	blue	C	conc	1	446 A	N	
1368	Ext wall	white	D	conc	"	"	POS	4.9
1369	" trim	blue	D	"	"	"	N	
1370	Ext wall	white	A	"	"	"	POS	5.7
1371	Ext wall trim	blue	A	"	"	"	POS	2.1
1372	Ext wall	off white	B	"	"	"	POS	3.1
1373	Ext wall	white	B	"	"	"	POS	8.4
1374	Ext wall trim	blue	B	"	"	"	N	
1375	Ext range hood	black	B	metal	"	"	N	
1376	Drainage Pipe Ext	white	B	metal	"	"	N	
1377	Exterior closet w. heater railing S	white	B	metal	"	"	N	
1378	Exterior closet w. heater wall	white	A	conc	"	"	N	
1379	Ext closet w. heater wall	white	C	conc	"		P	6.9
1380	Ext closet door frame	white	B	wood	"	"	N	

water heater wall

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1381	ext closet v. wall inct	white	D	conc	1	446 A	POS	4.3
1382	ext closet wall ceiling tile 9x9	white	A	conc	"	"	N	
1383	Cd ver						P	1.2
~~1384~~	~~cd~~ ver						wrong lecture	
1385	Cd ver						P	1.2
1386	" "						P	1.3

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

446B

Client Name: Baker Environmental	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1399	Calibration test # 1					446B	pos.
PB-1400	Calibration test # 3					446B	pos.
PB-1401	Calibration test # 4					446B	pos.
PB-1411	Stair way foyer (12" x 12")	white/gray		concrete	1	446B	pos.
PB-1412	Stair way foyer (12" x 4") baseboard	white/gray	B	concrete	1	446B	pos.
PB-1423	Livingroom Floor Tile (12" x12")	white/gray	Floor	concrete	1	446B	pos.
PB-1431	Kitchen wall (FT 8 x 6 1/2 to floor	light gray	C	concrete	1	446B	pos.
PB-1442	Kitchen balcony baseboard	white/gray	C	concrete	1	446B	pos.
PB-1443	Kitchen balcony baseboard(FT 12 x 12)	white/gray	Floor	concrete	1	446B	pos.
PB-1449	Kitchen balcony half down	white	C	concrete	1	446B	pos.
PB-1452	Kitchen balcony half up (baseboard)	white/gray	C	concrete	1	446B	pos.
PB-1453	Storage room (FT 12 x 12)	white/gray	Floor	concrete	1	446B	pos.
PB-1459	Hallway (FT 12 x 12)	white/gray	Floor	concrete	1	446B	pos.
PB-1464	Room #1 (baseboard)	white/gray	A	concrete	1	446B	pos.
PB-1465	Room #1 (FT 12 x 12)	white/gray	Floor	concrete	1	446B	pos.
PB-1488	CT (6 x 6) bathroom	light/pink	C	concrete	1	446B	pos.
PB-1489	FT 8 x 8	dark/pink	Floor	concrete	1	446B	pos.
PB-1506	Room #2 (baseboard)	white/gray	C	concrete	1	446B	pos.
PB-1507	Room #2 (FT 12 x 12)	white/gray	Floor	concrete	1	446B	pos.
PB-1532	Den (baseboard)	white/gray	A	concrete	1	446B	pos.
PB-1533	FT 12 x 12	white/gray	Floor	concrete	1	446B	pos.
PB-1545	Exterior wall	white	A	concrete	1	446B	pos.

BAKER EN. .ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

446 B

Client Name: Baker Environmental Company	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: EAC-08	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-1547	Exterior wall	off white	B	concrete	1	446B	pos.
PB-1548	Exterior wall	white	B	concrete	1	446B	pos.
PB-1550	Exterior wall	white	C	concrete	1	446B	pos.
PB-1552	Exterior wall	white	D	concrete	1	446B	pos.
PB-1554	Calibration				1	446B	pos.
PB-1555	Calibration				1	446B	pos.
PB-1556	Calibration				1	446B	pos.

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1399	Validation cal						Pos	1.5
1400	Cal. Ver						Pos	1.6
1401	Cal. Ver						Pos	2.0
1402	Entrance stairway step	gray	D	Concrete	1	446B	n	
1403	raise	" "	D	" "	1	" "	n	
1404	Entrance Door	brown	D	wood	1	" "	n	
1405	" " sidejam	white	D	" "	1	✓	n	
1406	" " headjam	" "	D	" "	1	✓	n	
1407	stairway wall	white	A	Concrete	1	✓	n	
1408	" "	✓	B	✓	1	✓	n	
1409	" "	✓	C	✓	1	✓	n	
1410	" "	✓	D	✓	1	✓	n	
1411	Stairway Foyer 12x12 FT	white/gray		ceramic	1	✓	P	4.9
1412	" " Baseboard 12x4'	" "	B	Ceramic	1	✓		6.6

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1413	2nd floor door entrance	Brown	A	wood	2	446B	n
1414	side jam	white	A	" "	2	✓	n
1415	Head jam		A	" "	2	✓	null
1416	" "	" "	" "	" "	" "	" "	n
1417	Living room wall	Light pink	A	Concrete	2	✓	n
1418	" "	✓	B	✓	2	✓	n
1419	" "	✓	C	✓	2	✓	n
1420	" "	✓	D	✓	2	✓	n
1421	" " chair rail	white	A	wood	2	✓	n
1422	baseboard	" "	A	Concrete	2	✓	n
1423	" " FT 12X12	white/gray	Floor	ceramic	2	✓	p
1424	" " window case #2	dark brown	D	metal	2	✓	n
1425	" " rail #2	" "	D	" "	2	✓	n
1426	View window metal bracket	white	A	metal	2	✓	n

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ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1427	Kitchen wall	peach	A	concrete	2	446B	n
1428	" "	✓	B	✓	✓	✓	n
1429	" "	✓	C	✓	✓	✓	n
1430	" "	✓	D	✓	✓	✓	n
1431	" " FT 8x6 ½ to floor	light gray	CD	ceramic	2	✓	p
1432	" " FT 10x10	white		" "	2	✓	N
1433	window case	Dark brown	A	metal	✓	✓	N
1434	window rail	✓	A	✓	✓	✓	N
1435	kitchen door	Brown	A	wood	✓	✓	n
1436	" " side Jam	white	A	✓	✓	✓	n
1437	" " Head Jam		A	✓	✓	✓	n
1438	Kitchen Balcony	white	A	concrete	✓	✓	n
1439	" "	✓	B	✓	✓	✓	n
1440	" "	✓	C	✓	✓	✓	n
1441			D	✓			n

i.3

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1442	Kitchen Balcony Baseboard	white/gray	C ~~Floor~~	ceramic	2	446 B	p	6.2
1443	" " FT 12x12	white/gray	Floor	" "	2	✓	p	4.6
1444	Kitchen Balcony Storage door	Brown	D	wood	2	✓	n	
1445	side Jam	white	D	✓	2	✓	n	
1446	Head Jam	✓	D	✓	2	✓	n	
1447	Kitchen Balcony storage room wall	white	A	concrete	2	✓	n	
1448	✓	✓	B	✓	2	✓	n	
1449	✓ Halfdown	✓	C	✓	2	✓	p	
1450	✓ Half up	✓	~~D~~ C	✓	2	✓	n	
1451	✓	✓	D	✓	2	✓	n	
1452	" " Baseboard	white/gray	C ~~Flo~~	ceramic	2	✓	p	7.2
1453	storage room FT 12x12		floor	✓	2	✓	p	9.3
1454	Hallway wall	light pink	A	concrete	2	✓	n	
1455	" "		B	✓	2	✓	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1456	Hallway wall	light pink	C	Concrete	2	446B	n	
1457	" "		D	✓	2	446B	n	
1458	Baseboard Hallway	~~white~~ white/ ~~gray~~	D	~~ceramic~~ concrete	2	✓	n	
1459	FT 12x12 Hallway	white gray	Floor	Ceramic	✓	✓	p	8.6
1460	Room #1	white	A	concrete	✓	✓	n	
1461	✓	✓	B	✓	✓	✓	n	
1462	✓	✓	C	✓	✓	✓	n	
1463	✓	✓	D	✓	✓	✓	n	
1464	Room #1 Baseboard	white/ gray	A	Ceramic	✓	✓	p	4.2
1465	" " FT 12x12	✓	Floor	✓	✓	✓	p	4.6
1466	~~Room #1~~ chair ~~closet~~ ~~wall~~ rail	white	C	wood	✓	✓	n	
1467	Fuse BOX	white	D	metal	✓	✓	n	
1468	Room # 1 window case #1	Dark Brown	A	metal	✓	✓	n	
1469	window rail #1	✓	A	✓	✓	✓	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1470	Room #1 closet door	Brown		wood	2	446B	n
1471	Side jam	white		✓	2	✓	n
1472	Head jam	✓		✓	2	✓	n
1473	Room #1 closet wall	white	A	concrete	2	✓	n
1474	✓	✓	B	✓	2	✓	n
1475	✓	✓	C	✓	2	✓	n
1476	✓	✓	D	✓	2	✓	n
1477	" floor "	gray	floor	concrete	2	✓	n
1478	Room #1 Entrance door	Brown	C	wood	2	✓	n
1479	Side jam	white	C	✓	2	✓	n
1480	Head jam	✓	C	✓	2	✓	n
1481	Bathroom door	Brown	D	wood	✓	✓	n
1482	" " Side jam "	white	D	✓	✓	✓	n
1483	" " Head jam	✓	D	✓	✓	✓	n

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1484	Bathroom wall	peach	A	concrete	2	446B	N
1485	✓	✓	B	✓	2	✓	N
1486	✓	✓	C	✓	2	✓	N
1487	✓	✓	D	✓	2	✓	
1488	CT 6X6 Bathroom	light Pink	C	ceramic	✓	✓	P 1.7
1489	FT 8X8	dark pink	floor	✓	✓	✓	P 1.2
1490	Bathroom window case	dark Brown	B	metal	✓	✓	n
1491	window rail	✓	B	✓	✓	✓	n
1492	Bathroom tub	white	A	✓	✓	✓	n
1493	" " sink	✓	C	ceramic	✓	✓	n
1494	Bathroom toilet tank	✓	C	✓	✓	✓	n
1495	" " toilet Base	✓	C	✓	✓	✓	null
1496	" " toilet Base ~~Shelve~~	white	D	ceramic ~~wood~~	✓	✓	n
1497	" " shelve Base	gray	D	wood	✓	✓	n
1498	" shelve	white	D	✓	✓	✓	n

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1499	Room # 2 Door	Brown	A	wood	2	446B	n	
1500	" " Side jam	white	A	✓	2	✓	n	
1501	" " Head jam	✓	A	✓	2	✓	n	
1502	Room # 2 wall	Pink	A	concrete	2	✓	n	
1503	✓	✓	B	✓	2	✓	n	
1504	✓	✓	C	✓	2	✓	n	
1505	✓	✓	D	✓	2	✓	n	
1506	" " Baseboard	white/ gray	C	ceramic	✓	✓	p	8.4
1507	" " FT 12X12	✓	floor	✓	✓	✓	p	4.0
1508	" " Chair rail	white	A	wood	✓	✓	n	
1509	Room # 2 window casing #1	Dark Brown	C	metal	✓	✓	n	
1510	window rail #1	✓	✓	✓	✓	✓	n	
1511	Room # 2 closet door	Brown	A	wood	✓	✓	n	
1512	" " Side jam	white	A	✓	✓	✓	n	
1513	Head jam	✓	✓	✓	✓	✓	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1514	Room # 2 closet wall	white	A	concrete	2	446B	N
1515	✓	✓	B	✓	2	✓	n
1516	✓	✓	C	✓	2	✓	n
1517	✓	✓	D	✓	2	✓	n
1518	" " floor	gray	floor	✓	✓	✓	n
1519	den door #1	Brown	A	wood	2	✓	n
1520	" " side jam	✓	A	✓	2	✓	n
1521	" " Head jam	✓	A	✓	2	✓	n
1522	den wall	pink	A	concrete	✓	✓	n
1523	✓	✓	B	✓	✓	✓	n
1524	✓	✓	C	✓	✓	✓	n
1525	✓	✓	D	✓	✓	✓	n
1526	window den case #6	Dark Brown	C	metal	✓	✓	n
1527	" " rail #6	✓	C	✓	✓	✓	n

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

446B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1528	Den closet door	Brown	D	wood	2	446B	n	
1529	" " closet frame	pink	D	✓	2	✓	n	
1530	closet wall	pink	D	wood	✓	✓	n	
1531	closet shelve	white		✓	✓	✓	n	
1532	Den Baseboard	white/ gray	A	ceramic	✓	✓	p	1.8
1533	FT 12X12	✓	floor	✓	✓	✓	p	8.8
1534	living room door #3	dark Brown	C	metal	✓	✓	n	
1535	" " side jam	✓	C	✓	✓	✓	n	
1536	Exterior storage room door	dark Brown	D	metal	↓	✓	n	
1537	side jam	✓	✓	✓	↓	✓	n	
1538	Head jam	✓	✓	✓	↓	✓	n	
1539	Ex storage room wall	white	A	concrete	↓	✓	n	
1540	" "	✓	B	✓	↓	✓	n	
1541	" "	✓	C	✓	↓	✓	n	
1542	" "	✓	D	✓	↓	✓	n	
1543	" " shelve #1	✓	C	wood	↓		n	
1544	" " shelve #1 Base	✓	C	✓	↓		n	

446B

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1545	0 Exterior wall	white	A	concrete	1	446B	P	3.8
1546	" " Trim	Blue	✓	✓	✓	✓	N	
1547	Exterior wall	off white	B	✓	✓	✓	P	3.5
1548	" "	white	B	✓	✓	✓	P	4.3
1549	" " Trim	Blue	B	✓	✓	✓	N	
1550	Exterior wall	white	C	✓	✓	✓	P	4.5
1551	" " Trim	Blue	C	✓	✓	✓	N	
1552	Exterior wall	white	D	✓	✓	✓	P	7.4
1553	" " Trim	Blue	D	✓	✓	✓	N	
1554	validation						P	1.6
1555	✓						P	1.5
1556	✓						P	1.6

1556
-1399
157

SAMPLING DATA

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Av. R.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Stop 7½
Site Location:
Samplers Name: Miguel Olivera
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb wipes							Remarks
81 784	[redacted]	[redacted]															
	[redacted]	[redacted]	4/9/00			/		N/A	1	/							
81 785	ED. 446A.11	Ext. Front Entrance S Side A				/			1	/							17.4
81 786	E.D. 446B.12	Int 1st Fl Staircase Foyer Side B				/			1	/							21.0
81 787	ED 446B.13	Int 2nd Fl Staircase Foyer Side A				/			1	/							14.2
81 788	[redacted]	[redacted]				/			1	/							
81 789	[redacted]	[redacted]				/			1	/							
81 790	[redacted]	[redacted]				/			1	/							
81 791	[redacted]	[redacted]				/			1	/							
81 792	[redacted]	[redacted]				/			1	/							

Turnaround Time: Normal: [ ] Rush: [/]

Comments:

Relinquished By:	Miguel A Oliveras	Date/Time	10 Apr 00 1200 hrs	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Kane G. [illegible]	Date/Time	8/10/00 12:030	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A. Olivas

Name of property owner US Navy

Property address 446 Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
S. 446. 01	Building perimeter		13.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by [signature] 10:00 am (signature)

XRF DATA

446A

Serial #XL309-U12673701LY Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
1	**1227**	**1.13 ± 0.15**	**POS**	**1.4 ± 0.9**	**1.1 ± 0.1**	**1.0**	**13.3**	**3/31/100**	**10:07:29**		**1 of 1**
2	1228	0.92 ± 0.10	NEG	0.5 ± 0.7	0.9 ± 0.1	1.0	20.6	3/31/100	10:08:06		1 of 1
3	**1229**	**1.01 ± 0.11**	**POS**	**1.4 ± 0.7**	**1.0 ± 0.1**	**1.0**	**20.6**	**3/31/100**	**10:08:58**		**1 of 1**
4	1230	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	8.6	3/31/100	10:16:14		1 of 1
5	1231	0.20 ± 0.27	NEG	-0.6 ± 1.1	0.2 ± 0.1	3.7	8.6	3/31/100	10:16:37		1 of 1
6	1232	0.01 ± 0.12	NEG	0.2 ± 0.9	0.0 ± 0.1	1.9	11.1	3/31/100	10:17:38		1 of 1
7	1233	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.5	11.1	3/31/100	10:18:22		1 of 1
8	1234	0.00 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	1.0	6.2	3/31/100	10:18:50		1 of 1
9	1235	0.04 ± 0.10	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	23.3	3/31/100	10:19:11		1 of 1
10	1236	0.00 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	10:20:09		1 of 1
11	**1237**	**4.42 ± 1.68**	**POS**	**7.9 ± 4.2**	**4.4 ± 0.8**	**1.4**	**1.1**	**3/31/100**	**10:20:43**		**1 of 1**
12	**1238**	**>>5.0 ± 1.00**	**POS**	**4.1 ± 4.3**	**4.1 ± 2.2**	**1.8**	**1.1**	**3/31/100**	**10:21:08**		**1 of 1**
13	1239	0.02 ± 0.10	NEG	0.2 ± 0.6	0.0 ± 0.1	6.1	20.9	3/31/100	10:29:39		1 of 1
14	1240	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	10:30:29		1 of 1
15	1241	0.01 ± 0.10	NEG	-0.4 ± 1.3	0.0 ± 0.1	2.0	6.1	3/31/100	10:30:49		1 of 1
16	1242	0.00 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	10:31:23		1 of 1
17	1243	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	10:31:47		1 of 1
18	1244	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	10:32:05		1 of 1
19	**1245**	**4.64 ± 1.46**	**POS**	**8.0 ± 2.2**	**4.6 ± 0.7**	**1.5**	**3.4**	**3/31/100**	**10:32:24**		**1 of 1**
20	1246	0.00 ± 0.10	NEG	-1.1 ± 1.0	0.0 ± 0.1	1.0	6.0	3/31/100	10:32:38		1 of 1
21	1247	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	10:32:56		1 of 1
22	1248	0.01 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	10:33:13		1 of 1
23	1249	0.03 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	6.8	8.5	3/31/100	10:33:43		1 of 1
24	1250	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	10:34:07		1 of 1
25	1251	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	10:34:25		1 of 1
26	1252	0.00 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	10:36:59		1 of 1
27	1253	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	10:37:17		1 of 1
28	1254	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	16.0	3/31/100	10:37:35		1 of 1
29	1255	0.01 ± 0.15	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.4	6.2	3/31/100	10:38:15		1 of 1
30	**1256**	**0.79 ± 0.13**	**POS**	**1.5 ± 0.5**	**1.5 ± 0.2**	**2.8**	**50.7**	**3/31/100**	**10:38:35**		**1 of 1**
31	1257	0.03 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	1.2	19.6	3/31/100	10:41:52		1 of 1
32	1258	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	10.7	3/31/100	10:43:02		1 of 1
33	1259	0.16 ± 0.24	NEG	-0.1 ± 0.9	0.2 ± 0.1	7.3	11.1	3/31/100	10:44:21		1 of 1

446A

Paint Page 2

Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
34	1260	0.20 ± 0.29	NEG	-0.2 ± 1.2	0.2 ± 0.1	7.8	6.1	3/31/100	10:44:48		1 of 1
35	1261	0.12 ± 0.16	NEG	0.1 ± 0.7	0.1 ± 0.1	7.8	13.6	3/31/100	10:45:10		1 of 1
36	1262	0.19 ± 0.33	NEG	0.1 ± 1.0	0.2 ± 0.2	6.8	8.6	3/31/100	10:45:46		1 of 1
37	1263	0.12 ± 0.38	NEG	0.3 ± 0.8	0.1 ± 0.2	4.7	12.7	3/31/100	10:46:31		1 of 1
38	1264	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.0	3/31/100	10:47:11		1 of 1
39	1265	0.00 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	10:47:33		1 of 1
40	1266	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	10:48:03		1 of 1
41	1267	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	10:48:26		1 of 1
42	1268	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	10:48:43		1 of 1
43	1269	0.02 ± 0.10	NEG	-0.9 ± 1.2	0.0 ± 0.1	3.3	6.2	3/31/100	10:49:55		1 of 1
44	1270	0.05 ± 0.10	NEG	-0.2 ± 0.6	-0.3 ± 0.3	10.0	20.9	3/31/100	10:50:15		1 of 1
45	1271	0.01 ± 0.10	NEG	0.1 ± 0.7	0.0 ± 0.1	3.9	13.6	3/31/100	10:51:07		1 of 1
46	1272	0.03 ± 0.11	NEG	0.1 ± 1.0	0.0 ± 0.1	5.4	8.6	3/31/100	10:51:45		1 of 1
47	**1273**	**4.39 ± 1.71**	**POS**	**4.8 ± 2.3**	**4.4 ± 0.9**	**1.5**	**3.4**	**3/31/100**	**10:52:14**		**1 of 1**
48	1274	0.09 ± 0.36	NEG	-0.5 ± 1.3	0.1 ± 0.2	4.0	6.2	3/31/100	10:52:37		1 of 1
49	1275	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.1	3/31/100	10:54:24		1 of 1
50	1276	0.00 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	10:55:05		1 of 1
51	1277	0.00 ± 0.10	NEG	-1.5 ± 1.1	0.0 ± 0.1	1.0	6.2	3/31/100	10:55:37		1 of 1
52	1278	0.02 ± 0.10	NEG	-0.3 ± 1.3	0.0 ± 0.1	4.0	6.1	3/31/100	10:57:31		1 of 1
53	1279	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.3	8.6	3/31/100	10:58:00		1 of 1
54	1280	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	10:58:25		1 of 1
55	1281	0.03 ± 0.15	NEG	0.1 ± 0.9	0.0 ± 0.1	3.3	11.1	3/31/100	10:58:47		1 of 1
56	1282	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	10:59:37		1 of 1
57	1283	0.06 ± 0.10	NEG	-0.1 ± 1.0	0.1 ± 0.1	1.3	11.1	3/31/100	11:00:12		1 of 1
58	**1284**	**4.39 ± 1.70**	**POS**	**8.4 ± 2.4**	**4.4 ± 0.9**	**1.3**	**3.4**	**3/31/100**	**11:01:00**		**1 of 1**
59	1285	0.02 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	6.0	11.1	3/31/100	11:01:50		1 of 1
60	1286	0.00 ± 0.10	NEG	-1.1 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	11:02:25		1 of 1
61	1287	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.6	11.1	3/31/100	11:02:45		1 of 1
62	1288	0.01 ± 0.12	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.6	6.2	3/31/100	11:03:15		1 of 1
63	**1289**	**>>5.0 ± 1.00**	**POS**	**4.6 ± 2.4**	**4.6 ± 1.2**	**1.4**	**3.4**	**3/31/100**	**11:03:37**		**1 of 1**
64	**1290**	**3.56 ± 0.86**	**POS**	**6.8 ± 2.4**	**3.6 ± 0.4**	**1.3**	**3.4**	**3/31/100**	**11:04:13**		**1 of 1**
65	1291	0.00 ± 0.10	NEG	0.3 ± 0.9	0.0 ± 0.1	1.0	8.5	3/31/100	11:04:57		1 of 1
66	1292	0.20 ± 0.28	NEG	0.4 ± 0.7	0.2 ± 0.1	7.5	16.0	3/31/100	11:05:36		1 of 1
67	1293	0.13 ± 0.19	NEG	0.2 ± 0.7	0.1 ± 0.1	7.4	18.5	3/31/100	11:06:18		1 of 1

446A

Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
68	1294	0.02 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.9	13.6	3/31/100	11:07:06		1 of 1
69	1295	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:07:39		1 of 1
70	1296	0.15 ± 0.12	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	25.9	3/31/100	11:08:01		1 of 1
71	1297	0.01 ± 0.29	INCOM	-0.6 ± 2.6	0.0 ± 0.1	1.0	1.2	3/31/100	11:09:06		1 of 1
72	1298	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.2	6.1	3/31/100	11:09:20		1 of 1
73	**1299**	**3.50 ± 0.98**	**POS**	**5.8 ± 2.4**	**3.5 ± 0.5**	**1.6**	**3.4**	**3/31/100**	**11:09:47**		**1 of 1**
74	1300	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	11:10:36		1 of 1
75	1301	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	6.2	3/31/100	11:10:54		1 of 1
76	1302	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:11:44		1 of 1
77	1303	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.3	6.2	3/31/100	11:12:22		1 of 1
78	1304	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:12:56		1 of 1
79	1305	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	11:13:15		1 of 1
80	1306	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	11:13:33		1 of 1
81	1307	0.00 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	11:14:12		1 of 1
82	1308	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	8.6	3/31/100	11:14:29		1 of 1
83	1309	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:14:54		1 of 1
84	1310	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	11:15:16		1 of 1
85	**1311**	**1.79 ± 0.43**	**POS**	**1.2 ± 1.4**	**1.8 ± 0.2**	**1.6**	**5.9**	**3/31/100**	**11:15:42**		**1 of 1**
86	**1312**	**1.41 ± 0.37**	**POS**	**2.3 ± 1.5**	**1.4 ± 0.2**	**1.5**	**5.8**	**3/31/100**	**11:16:06**		**1 of 1**
87	**1313**	**0.48 ± 0.11**	**POS**	**1.3 ± 0.5**	**1.3 ± 0.3**	**3.5**	**52.3**	**3/31/100**	**11:16:32**		**1 of 1**
88	1314	0.00 ± 0.10	NEG	-1.7 ± 1.4	0.0 ± 0.1	1.0	5.8	3/31/100	11:18:38		1 of 1
89	1315	0.01 ± 0.22	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.3	8.3	3/31/100	11:19:01		1 of 1
90	1316	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	8.4	3/31/100	11:19:34		1 of 1
91	1317	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	11:20:26		1 of 1
92	1318	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:20:49		1 of 1
93	1319	0.08 ± 0.10	NEG	0.4 ± 0.9	0.1 ± 0.1	7.5	8.4	3/31/100	11:21:19		1 of 1
94	1320	0.00 ± 0.10	NEG	-0.7 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:21:46		1 of 1
95	1321	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	11:22:03		1 of 1
96	1322	0.01 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	11:22:35		1 of 1
97	1323	0.00 ± 0.10	NEG	0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	11:23:02		1 of 1
98	1324	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	6.2	3/31/100	11:23:28		1 of 1
99	1325	0.00 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	11:23:52		1 of 1
100	1326	0.00 ± 0.10	NEG	-0.8 ± 1.2	0.0 ± 0.1	1.0	6.2	3/31/100	11:24:11		1 of 1
101	**1327**	**>>5.0 ± 1.00**	**POS**	**7.0 ± 3.6**	**7.0 ± 1.8**	**1.8**	**1.1**	**3/31/100**	**11:24:47**		**1 of 1**

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
102	**1328**	**>>5.0 ± 1.00**	**POS**	**5.6 ± 4.4**	**5.6 ± 2.2**	**1.7**	**1.1**	**3/31/100**	**11:24:55**		**1 of 1**
103	1329	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:25:26		1 of 1
104	1330	0.03 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	6.9	8.7	3/31/100	11:26:35		1 of 1
105	1331	0.03 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	6.2	11.1	3/31/100	11:27:07		1 of 1
106	1332	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	11:27:49		1 of 1
107	1333	0.02 ± 0.10	NEG	-0.3 ± 0.6	0.0 ± 0.1	5.1	21.0	3/31/100	11:28:16		1 of 1
108	1334	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	11:29:06		1 of 1
109	1335	0.01 ± 0.14	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	8.6	3/31/100	11:29:29		1 of 1
110	1336	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:29:54		1 of 1
111	1337	0.02 ± 0.10	NEG	-0.9 ± 0.9	0.0 ± 0.1	1.0	6.0	3/31/100	11:30:28		1 of 1
112	**1338**	**2.57 ± 0.67**	**POS**	**4.8 ± 2.1**	**2.6 ± 0.3**	**1.3**	**3.4**	**3/31/100**	**11:30:55**		**1 of 1**
113	1339	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.0	3/31/100	11:31:55		1 of 1
114	1340	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:32:13		1 of 1
115	1341	0.01 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:32:31		1 of 1
116	1342	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:32:52		1 of 1
117	1343	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	11:33:11		1 of 1
118	1344	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	11:33:29		1 of 1
119	1345	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	8.6	3/31/100	11:34:32		1 of 1
120	1346	0.02 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	4.2	11.1	3/31/100	11:35:57		1 of 1
121	1347	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/31/100	11:37:12		1 of 1
122	1348	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/31/100	11:37:36		1 of 1
123	1349	0.16 ± 0.35	NEG	-0.3 ± 0.9	0.2 ± 0.2	5.6	11.1	3/31/100	11:38:06		1 of 1
124	1350	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:38:45		1 of 1
125	1351	0.00 ± 0.10	NEG	-1.0 ± 1.1	0.0 ± 0.1	1.0	6.2	3/31/100	11:39:24		1 of 1
126	1352	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.1	3/31/100	11:39:47		1 of 1
127	1353	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:40:06		1 of 1
128	**1354**	**>>5.0 ± 1.00**	**POS**	**8.3 ± 3.5**	**8.3 ± 1.7**	**1.8**	**1.1**	**3/31/100**	**11:40:28**		**1 of 1**
129	**1355**	**4.65 ± 1.45**	**POS**	**6.5 ± 1.9**	**4.7 ± 0.7**	**1.4**	**5.7**	**3/31/100**	**11:40:47**		**1 of 1**
130	1356	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:41:22		1 of 1
131	1357	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.2	3/31/100	11:41:40		1 of 1
132	1358	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:42:02		1 of 1
133	1359	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:42:23		1 of 1
134	1360	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.1	3/31/100	11:42:53		1 of 1
135	1361	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/31/100	11:43:15		1 of 1

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Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
136	1362	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	13.6	3/31/100	11:43:48		1 of 1
137	1363	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:44:20		1 of 1
138	1364	0.02 ± 0.10	NEG	0.5 ± 0.8	0.0 ± 0.1	2.0	13.6	3/31/100	11:47:38		1 of 1
139	1365	0.29 ± 0.29	NEG	-0.2 ± 0.8	0.3 ± 0.1	5.0	13.5	3/31/100	11:48:19		1 of 1
140	1366	0.02 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	4.0	6.1	3/31/100	11:49:26		1 of 1
141	1367	0.19 ± 0.33	NEG	-0.5 ± 1.4	0.2 ± 0.2	3.2	6.1	3/31/100	11:49:50		1 of 1
142	**1368**	**>>5.0 ± 1.00**	**POS**	**5.0 ± 3.3**	**4.9 ± 1.6**	**10.0**	**1.2**	**3/31/100**	**11:50:30**		**1 of 1**
143	1369	0.47 ± 0.14	NEG	0.2 ± 0.7	0.5 ± 0.1	2.4	20.8	3/31/100	11:51:10		1 of 1
144	**1370**	**>>5.0 ± 1.00**	**POS**	**5.7 ± 2.8**	**5.7 ± 1.4**	**10.0**	**1.2**	**3/31/100**	**11:52:13**		**1 of 1**
145	**1371**	**0.53 ± 0.35**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**10.0**	**23.3**	**3/31/100**	**11:52:46**		**1 of 1**
146	**1372**	**>>5.0 ± 1.00**	**POS**	**3.1 ± 3.8**	**3.1 ± 1.9**	**6.0**	**1.2**	**3/31/100**	**11:53:57**		**1 of 1**
147	**1373**	**>>5.0 ± 1.00**	**POS**	**8.4 ± 3.5**	**8.4 ± 1.7**	**4.5**	**1.2**	**3/31/100**	**11:54:06**		**1 of 1**
148	1374	0.01 ± 0.11	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.2	3/31/100	11:54:43		1 of 1
149	1375	0.06 ± 0.16	NEG	-0.2 ± 1.0	0.1 ± 0.1	5.8	8.2	3/31/100	11:55:35		1 of 1
150	1376	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.1	8.4	3/31/100	11:56:16		1 of 1
151	1377	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	8.7	3/31/100	11:56:56		1 of 1
152	1378	0.02 ± 0.10	NEG	0.2 ± 1.0	0.0 ± 0.1	5.0	8.6	3/31/100	11:58:20		1 of 1
153	**1379**	**>>5.0 ± 1.00**	**POS**	**6.9 ± 3.8**	**6.9 ± 1.9**	**7.8**	**1.2**	**3/31/100**	**11:58:48**		**1 of 1**
154	1380	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	1.0	6.1	3/31/100	11:59:32		1 of 1
155	**1381**	**>>5.0 ± 1.00**	**POS**	**4.3 ± 4.3**	**4.3 ± 2.1**	**5.2**	**1.2**	**3/31/100**	**11:59:59**		**1 of 1**
156	1382	0.14 ± 0.25	NEG	0.5 ± 0.7	0.1 ± 0.1	6.9	19.7	3/31/100	12:00:33		1 of 1
157	**1383**	**1.18 ± 0.15**	**POS**	**1.2 ± 0.8**	**1.2 ± 0.1**	**1.0**	**15.7**	**3/31/100**	**12:02:48**		**1 of 1**
158	1384	0.51 ± 0.10	NEG	1.0 ± 0.6	0.5 ± 0.1	1.0	28.0	3/31/100	12:03:26		1 of 1
159	**1385**	**1.18 ± 0.15**	**POS**	**0.5 ± 0.8**	**1.2 ± 0.1**	**1.0**	**15.7**	**3/31/100**	**12:04:38**		**1 of 1**
160	**1386**	**1.26 ± 0.22**	**POS**	**1.6 ± 1.1**	**1.3 ± 0.1**	**1.1**	**8.4**	**3/31/100**	**12:05:18**		**1 of 1**

Site: Ranges (NEG<INC<POS): Device PCS

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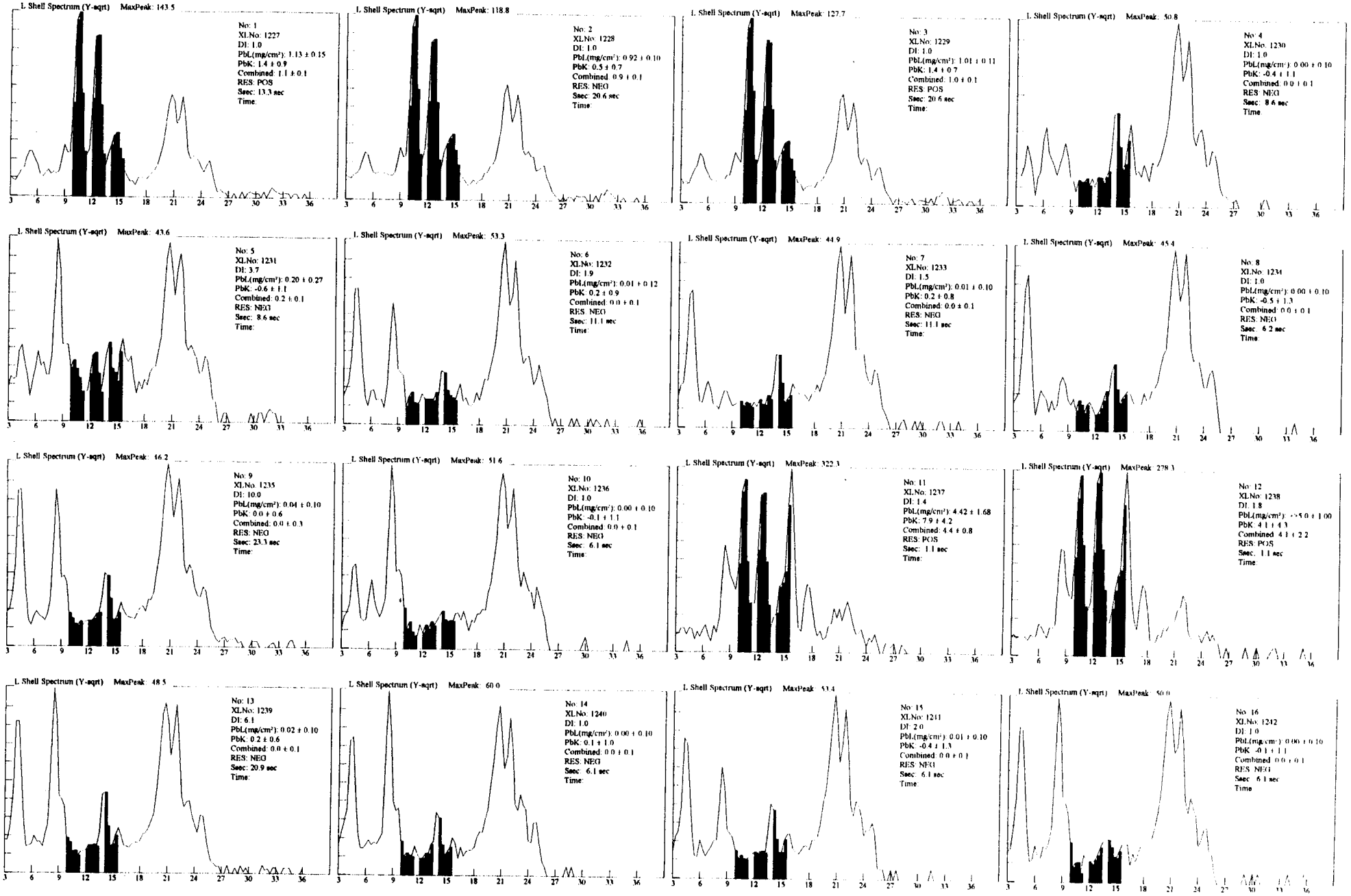

Site: Ranges (NEG<INC<POS): Device PCS

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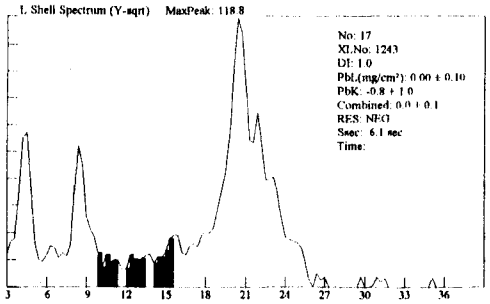
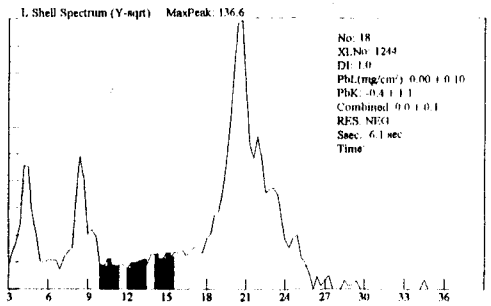
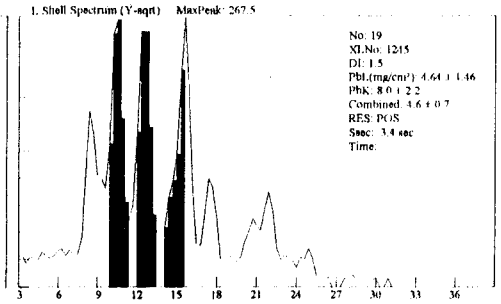
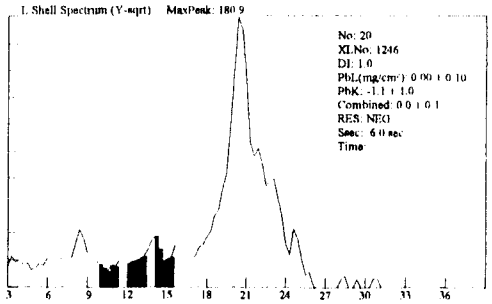
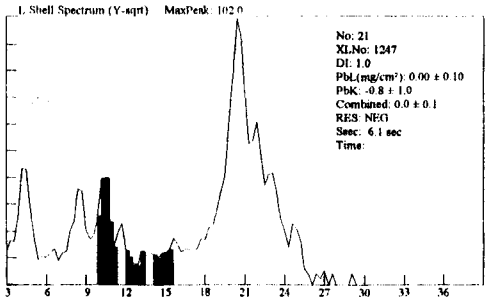
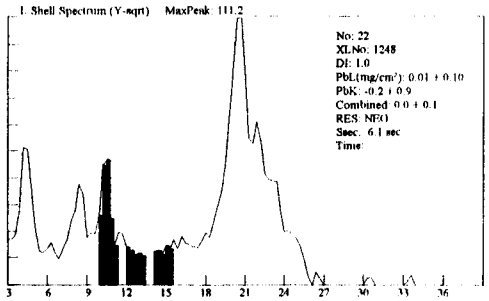


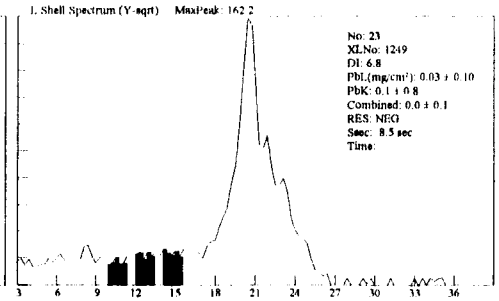


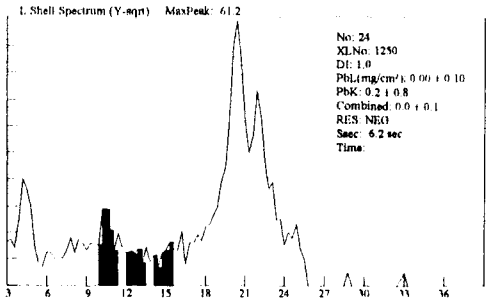


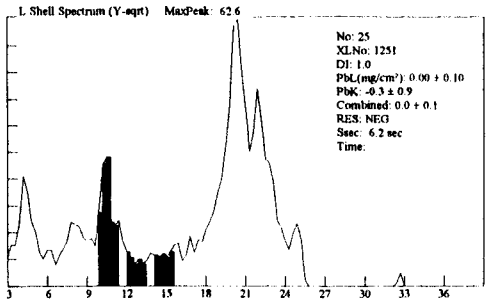


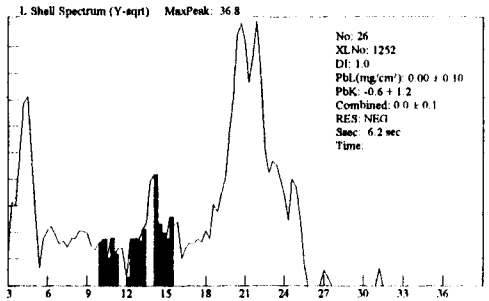


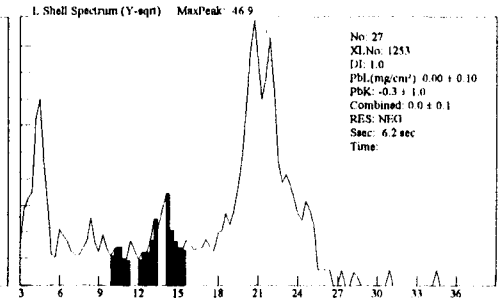


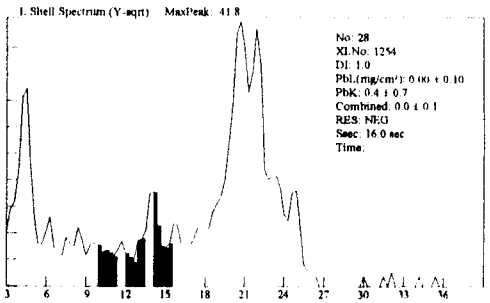


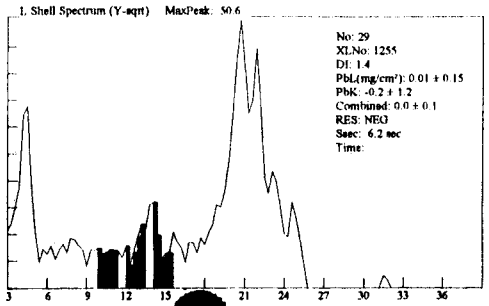


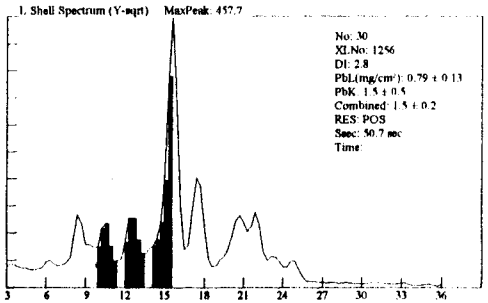


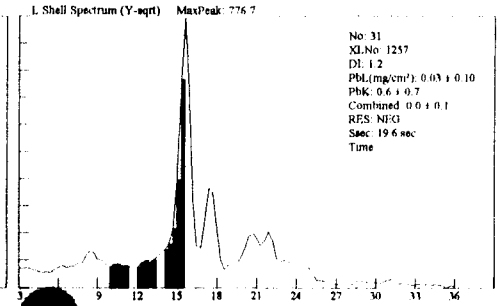


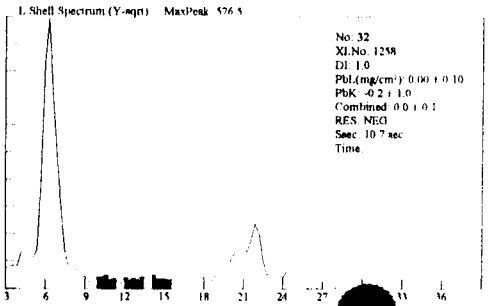






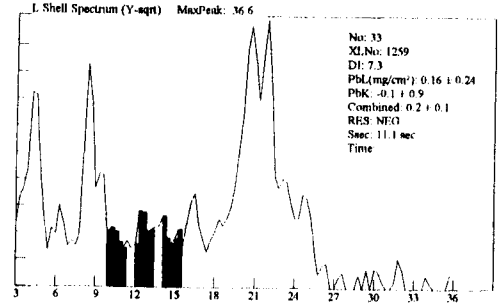


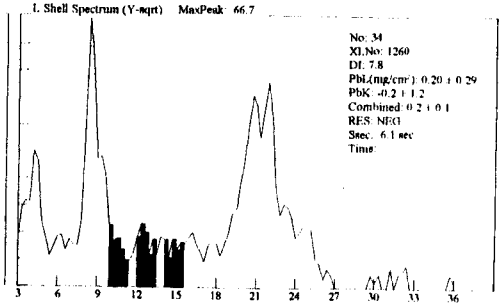


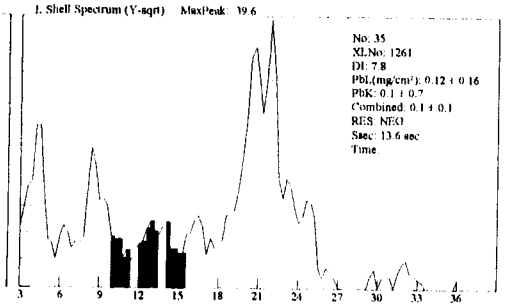


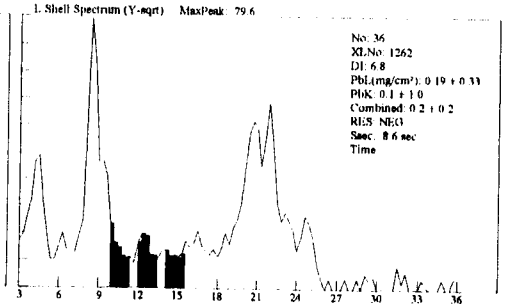
Site: Ranges (NEG<INC<POS): Device PCS

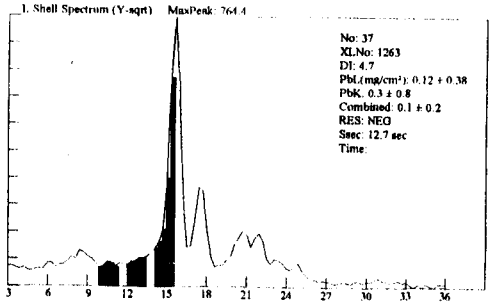
Date: 3/31/100 Paint Page 3

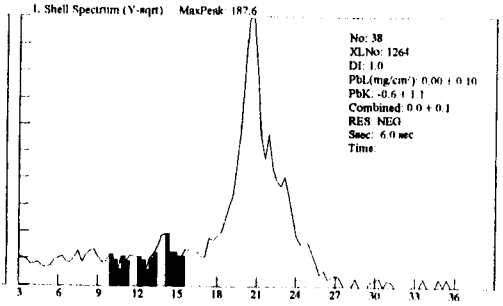


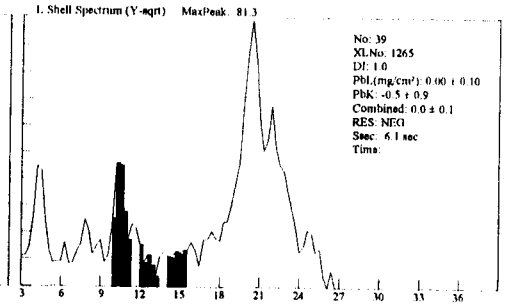


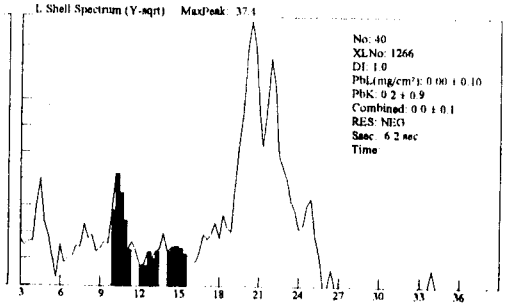


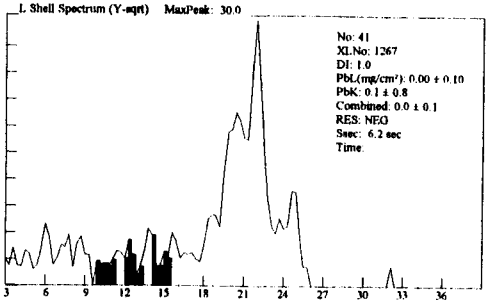


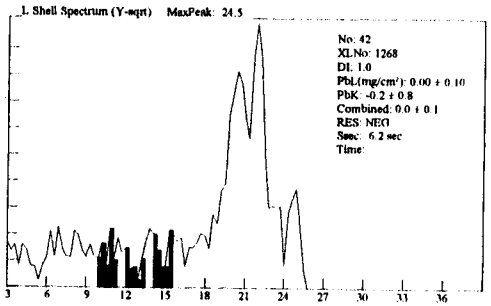


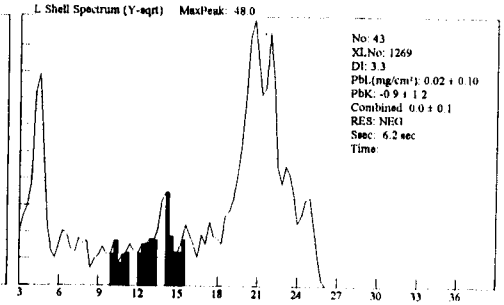


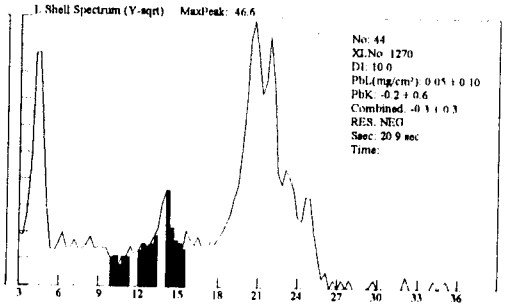


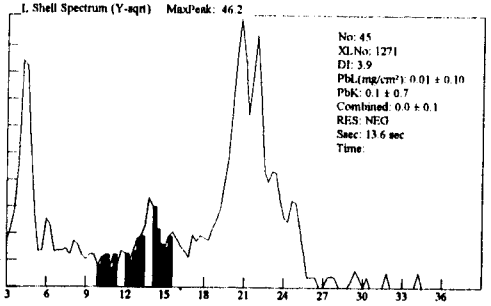


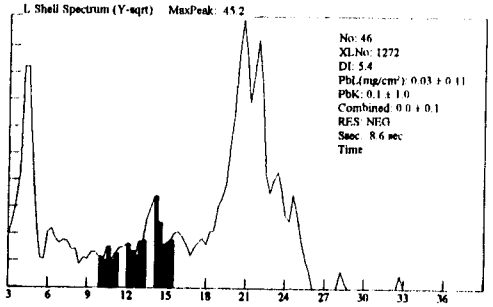


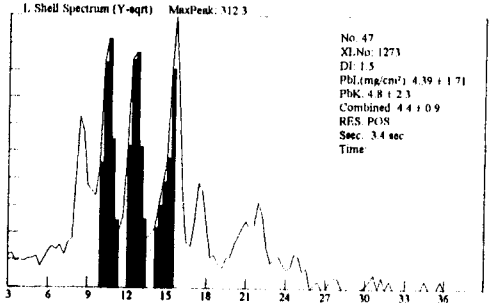


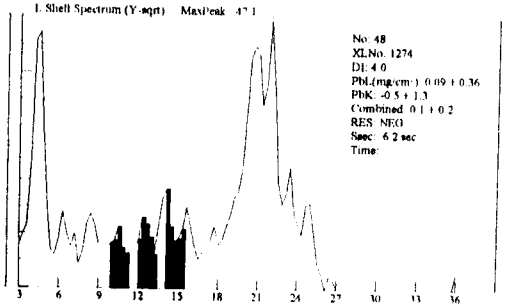












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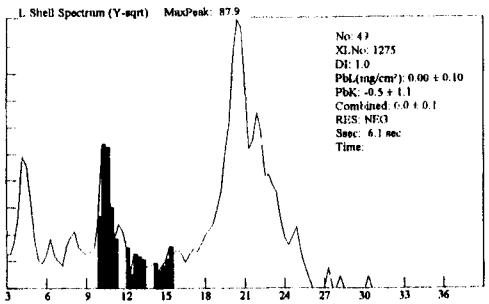

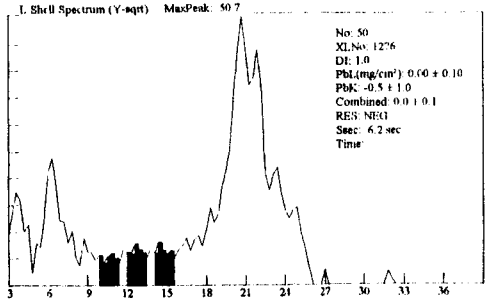

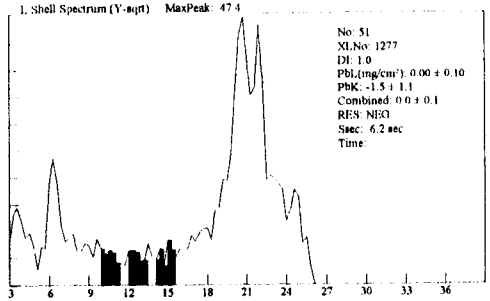

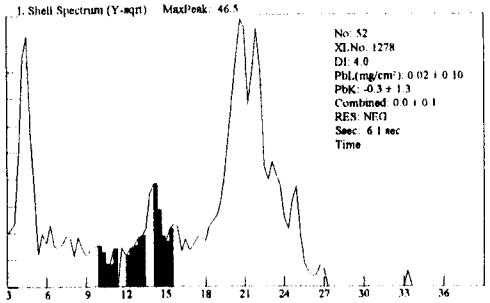

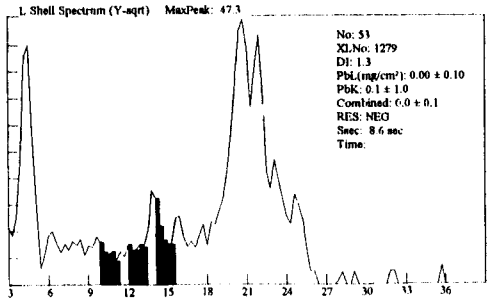

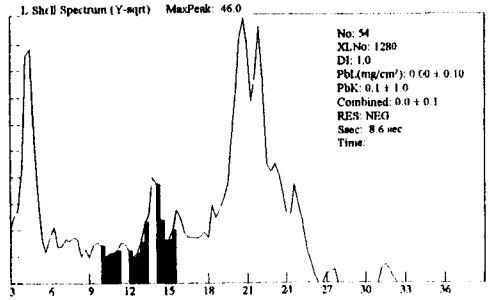

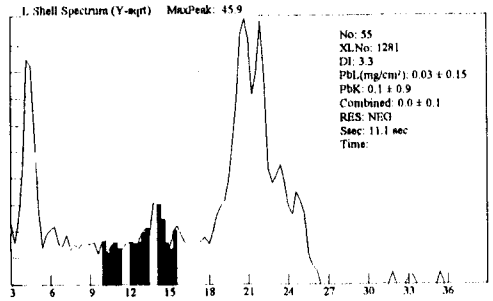

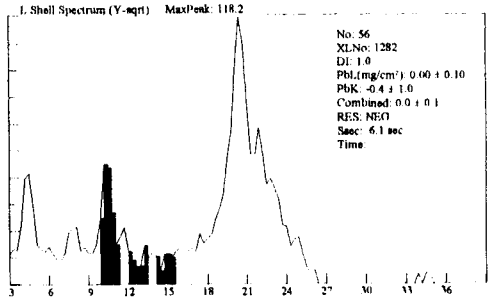

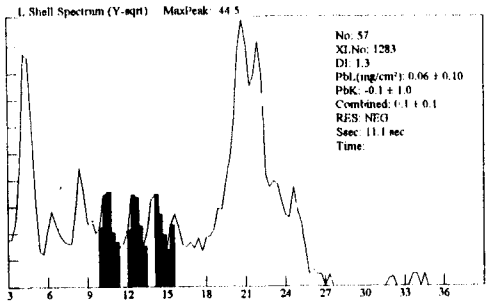

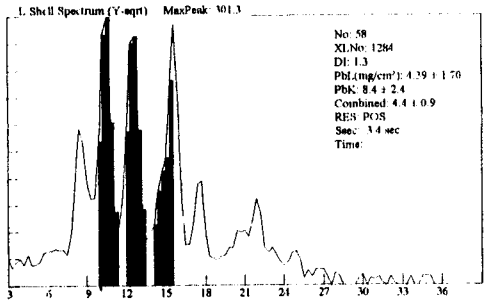

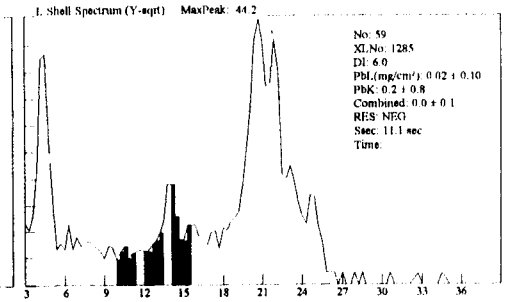

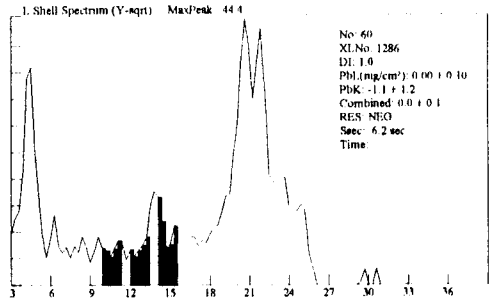

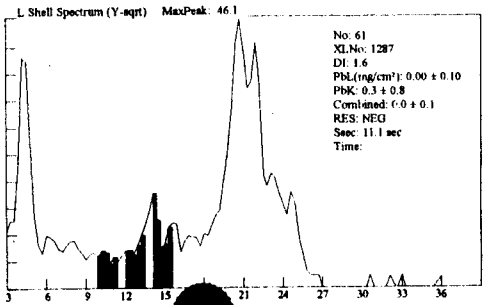

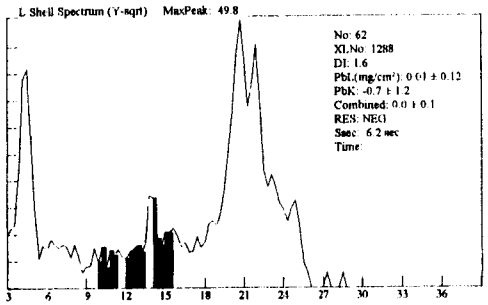

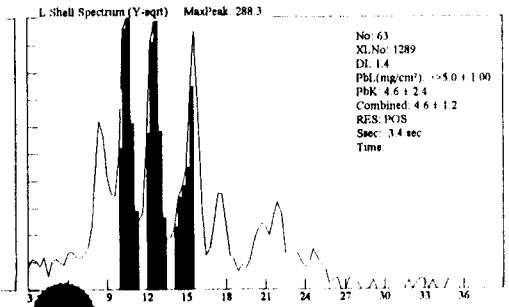

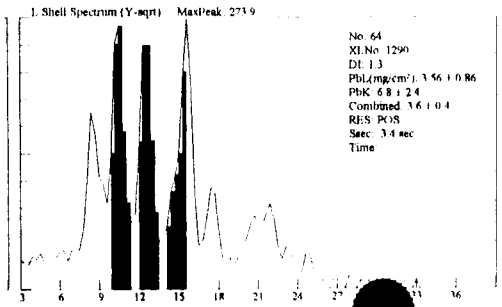

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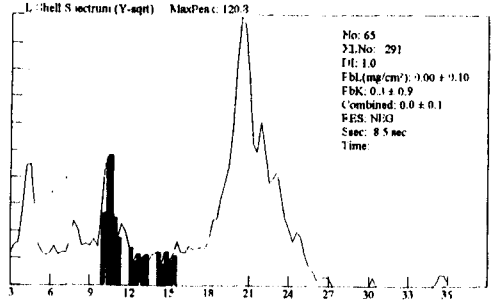

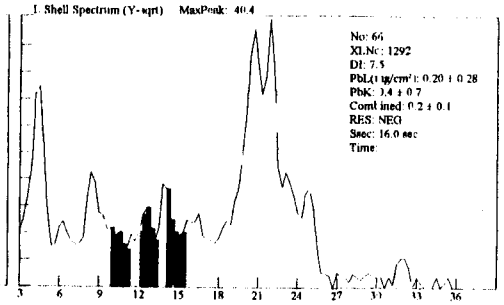

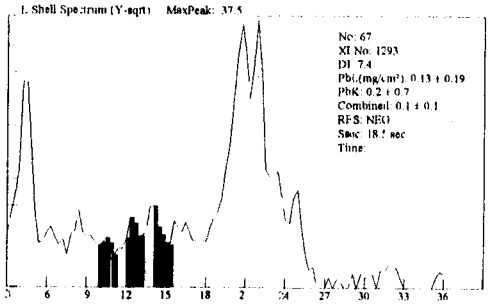

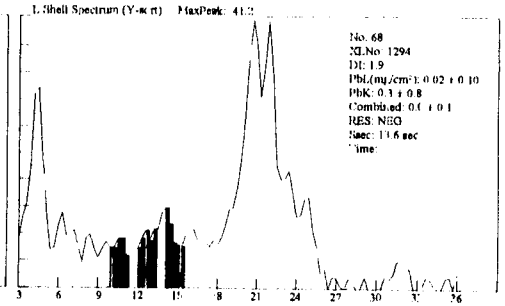

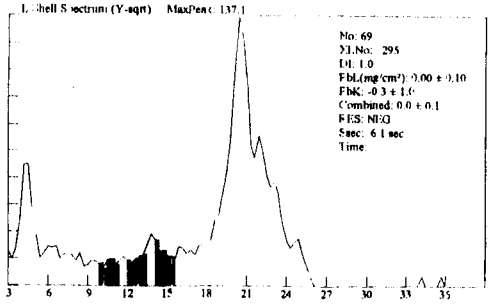

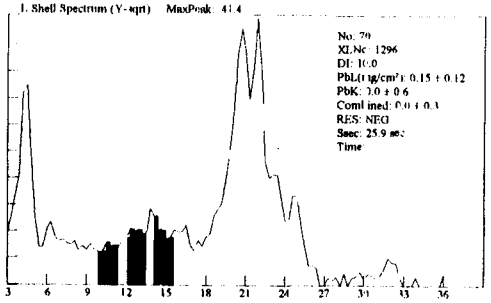

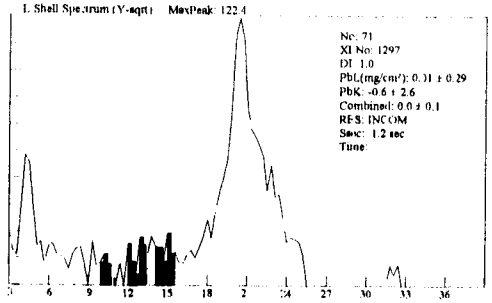

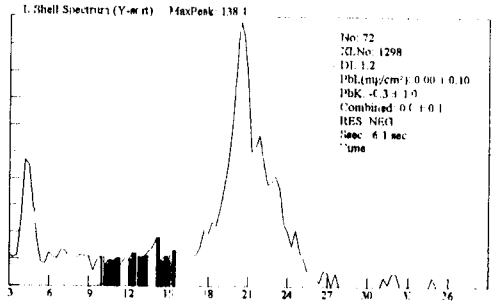

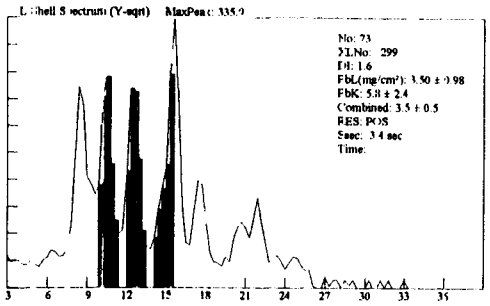

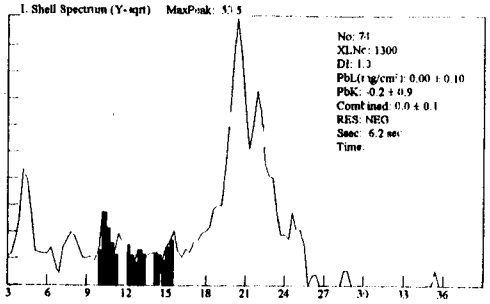

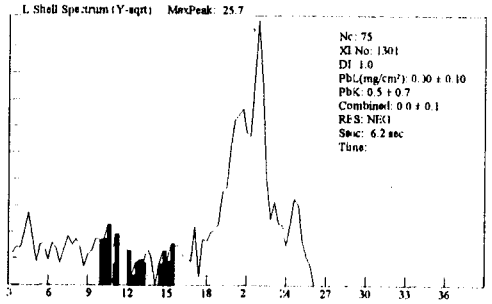

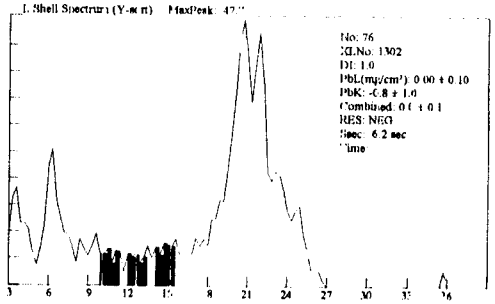

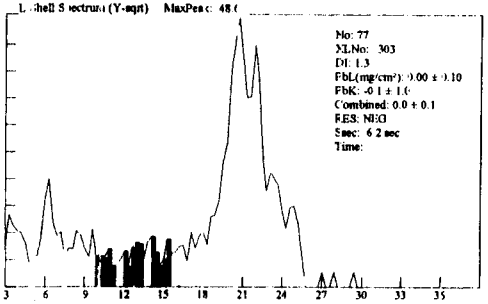

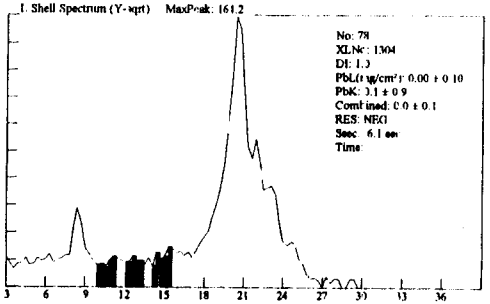

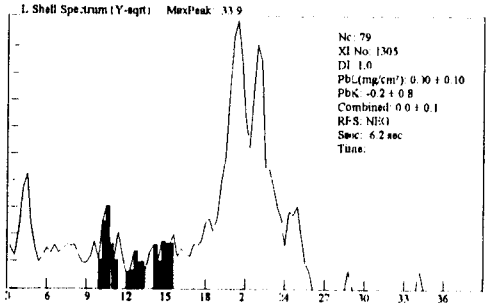

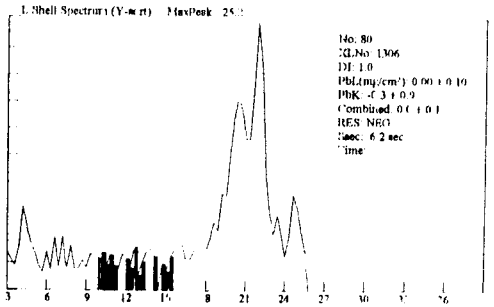

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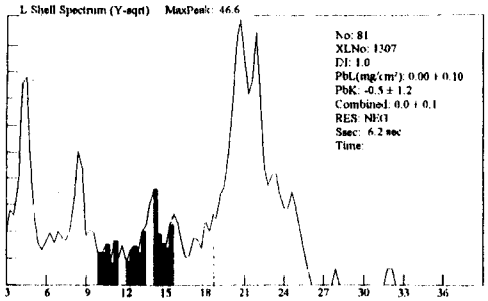

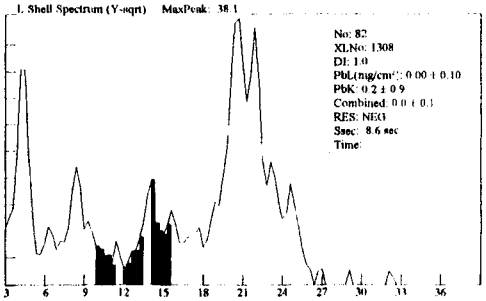

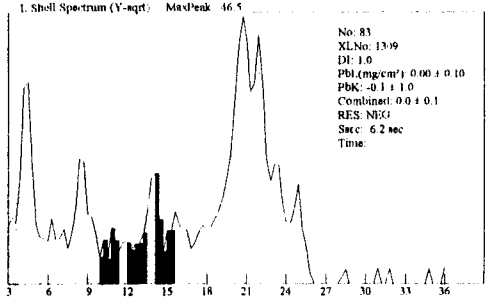

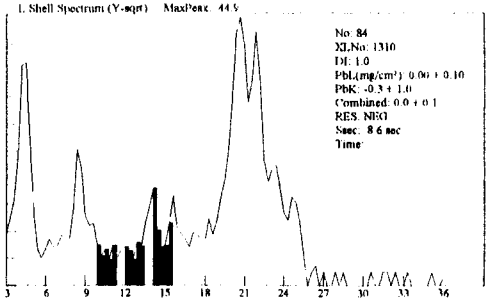

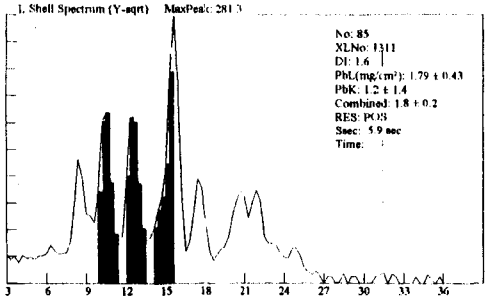

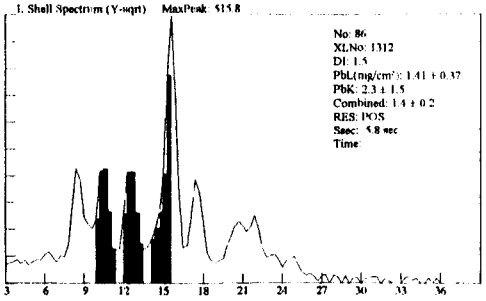

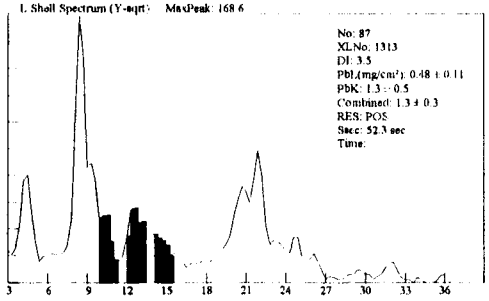

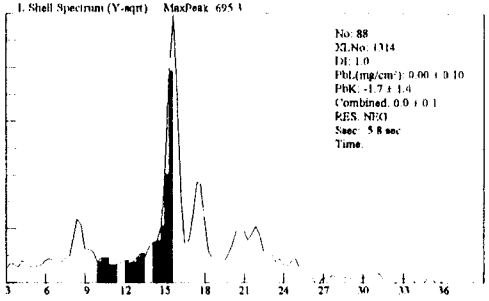

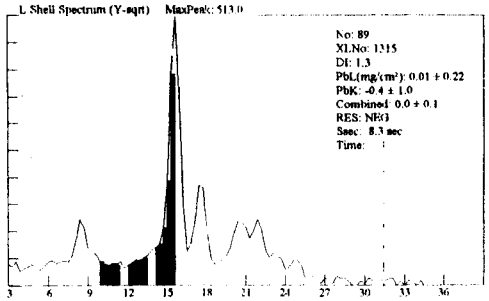

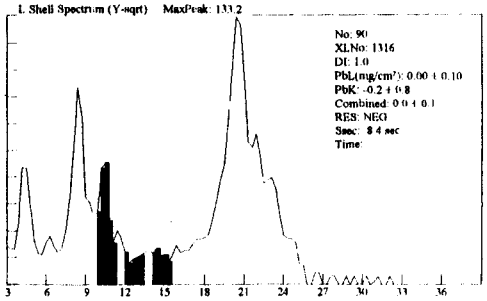

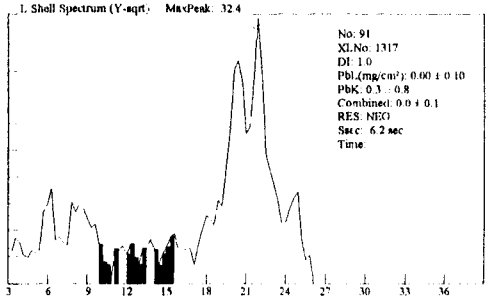

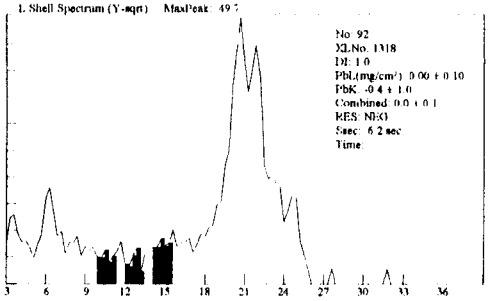

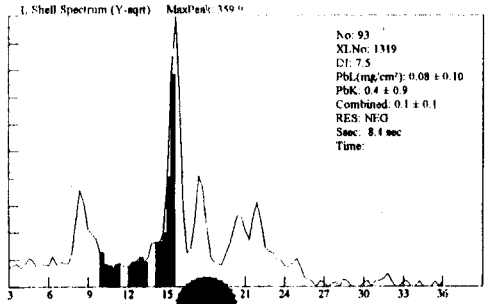

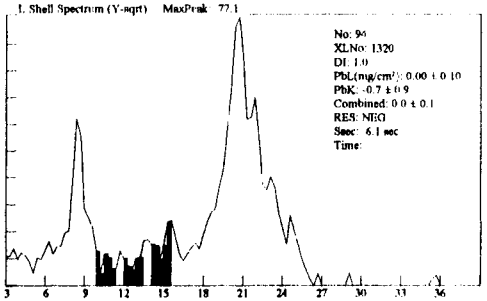

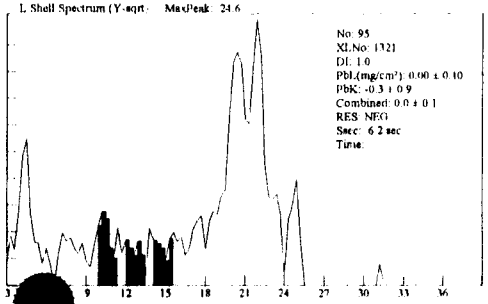

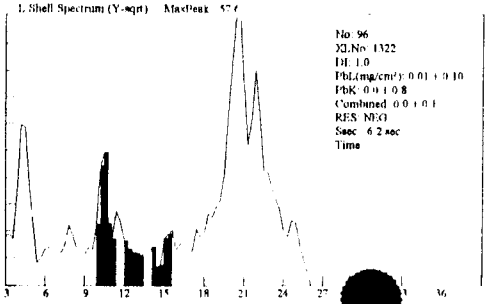

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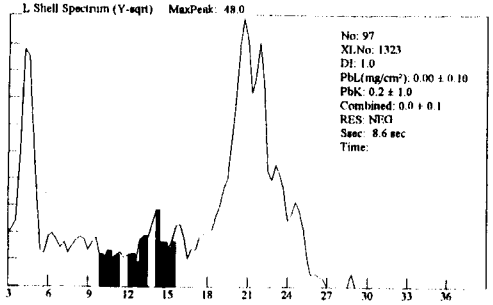

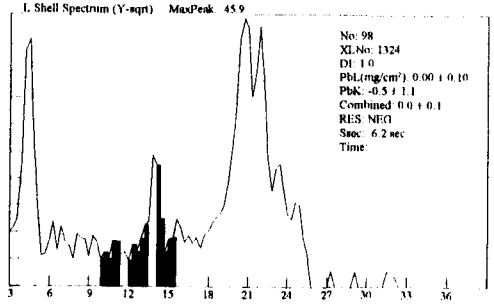

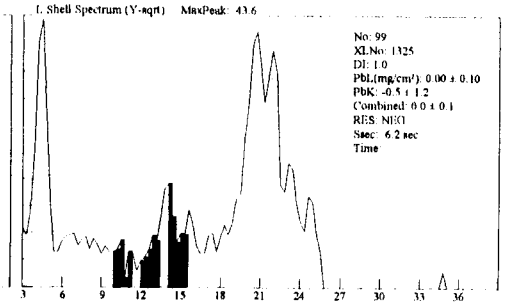

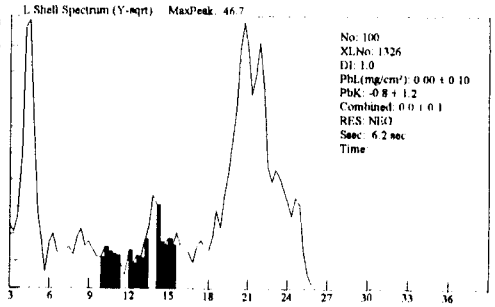

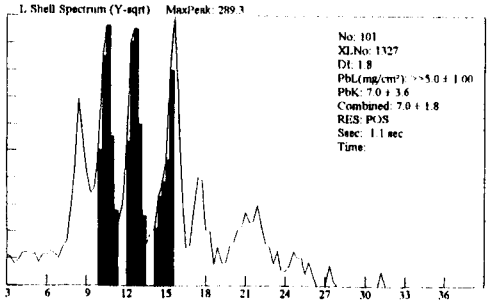

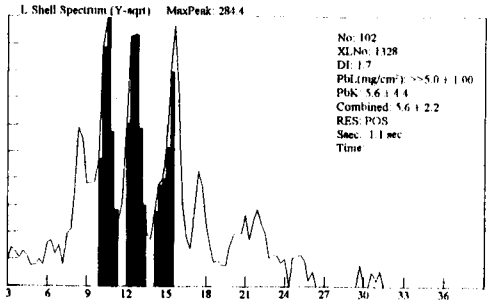

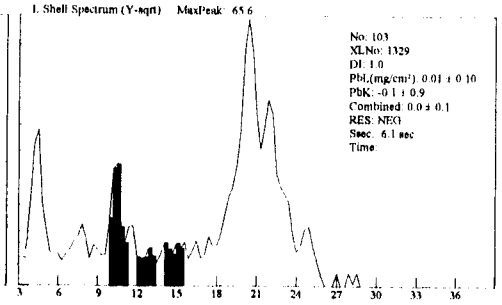

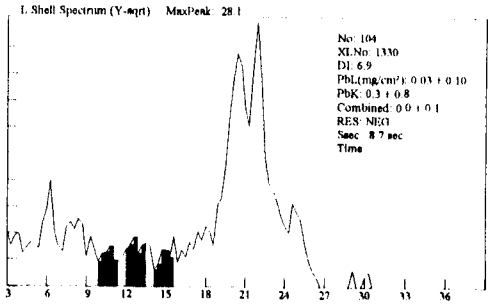

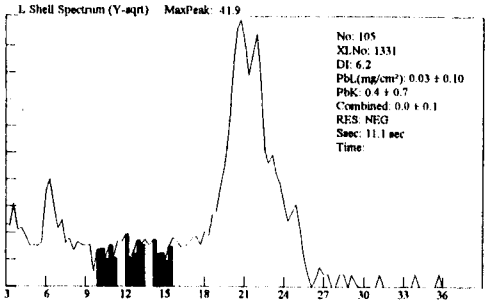

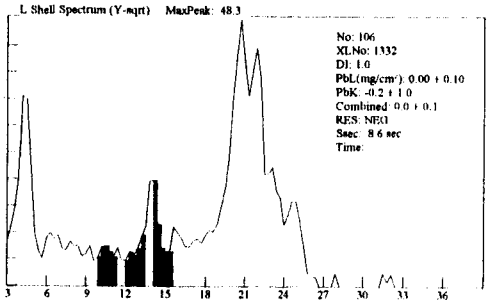

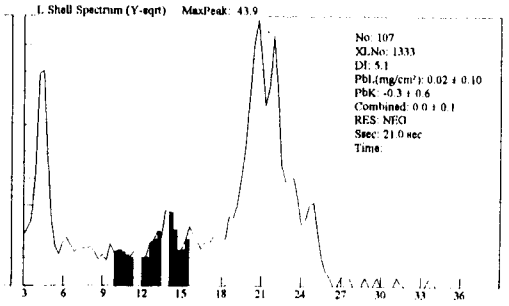

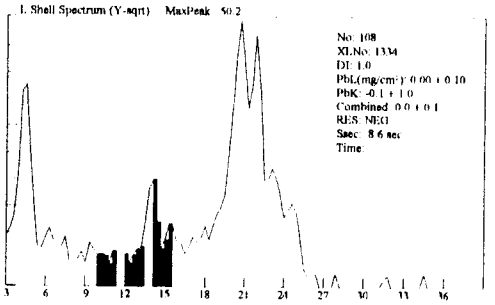

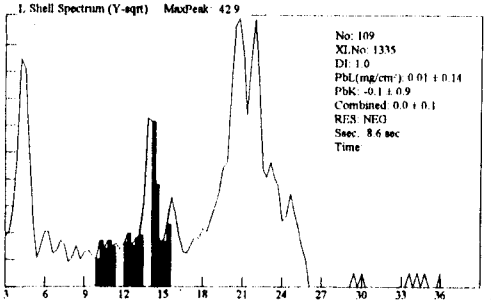

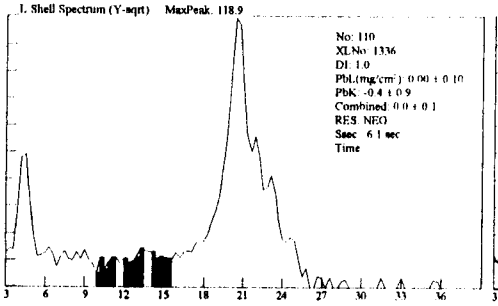

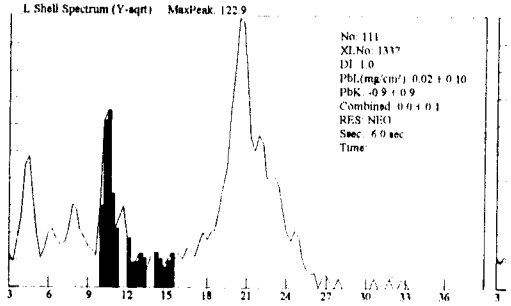

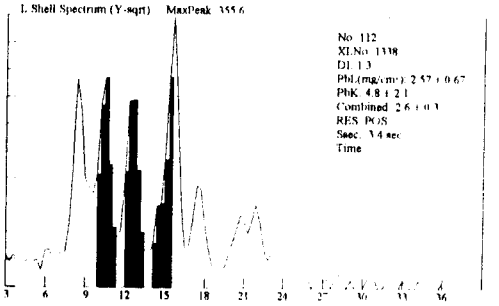

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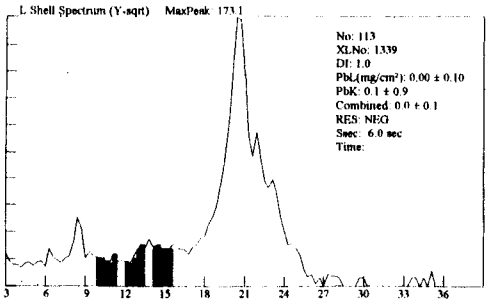

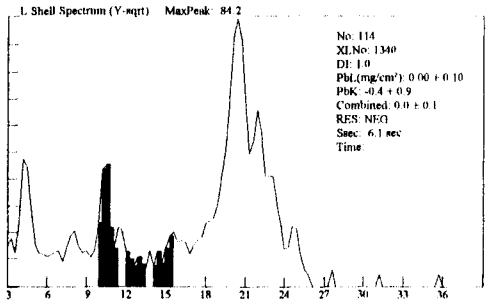

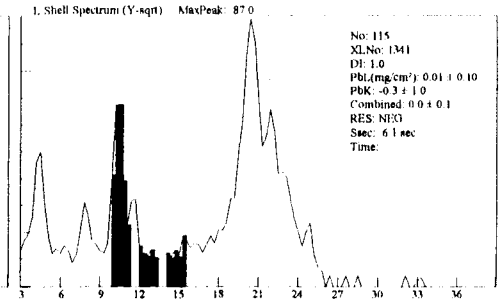

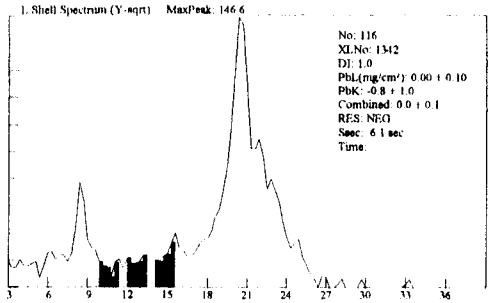

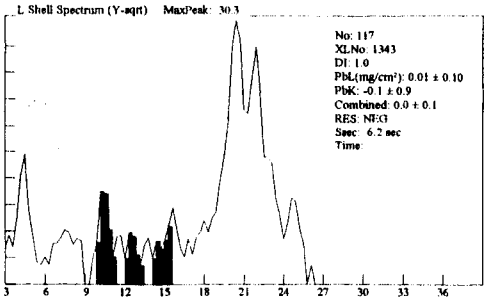

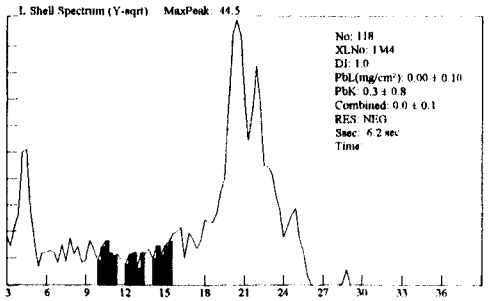

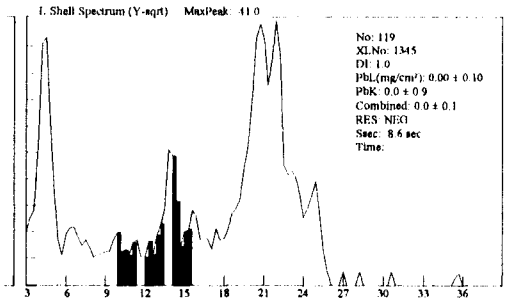

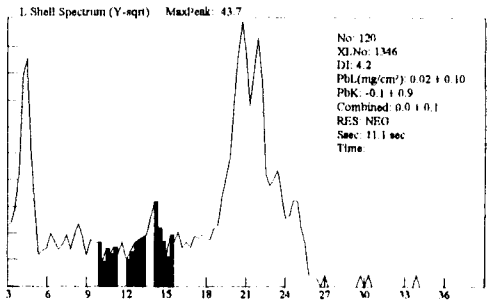

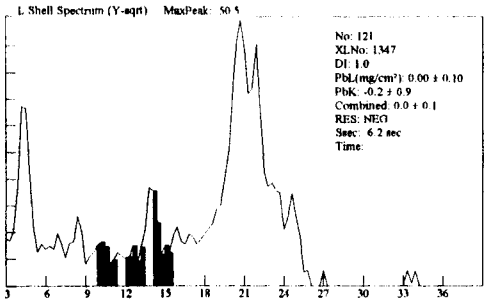

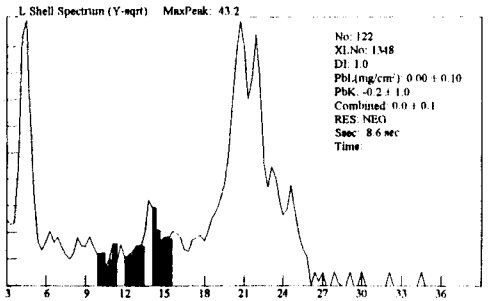

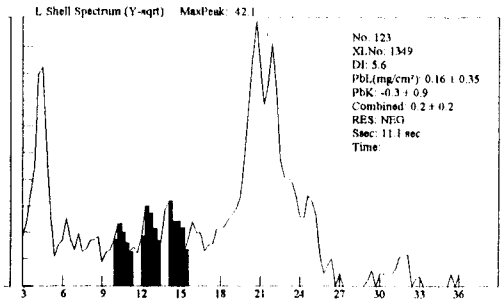

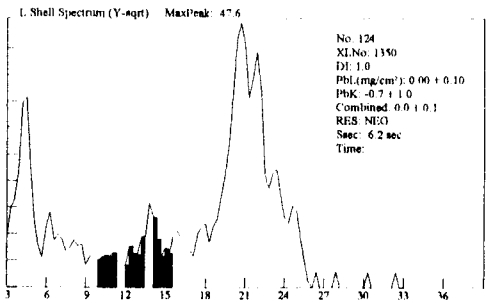

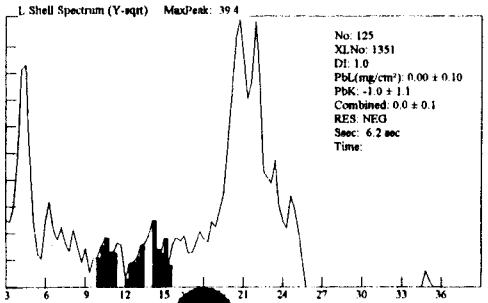

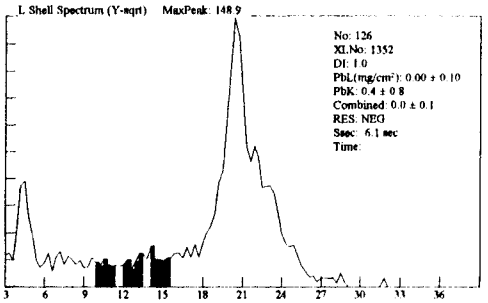

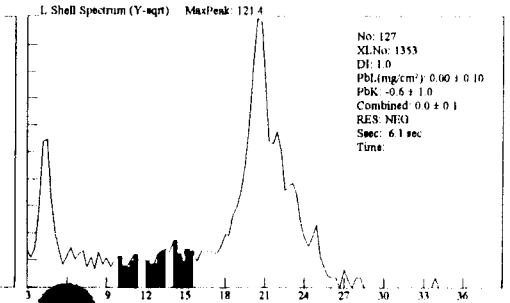

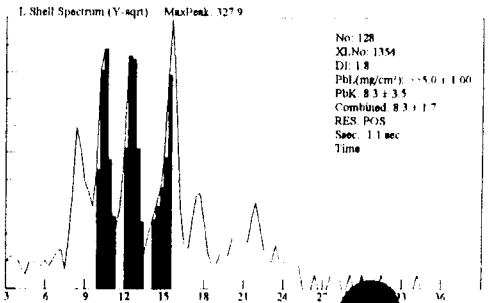

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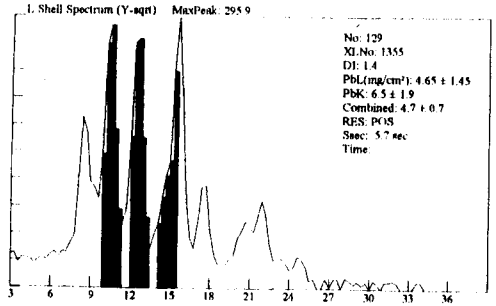

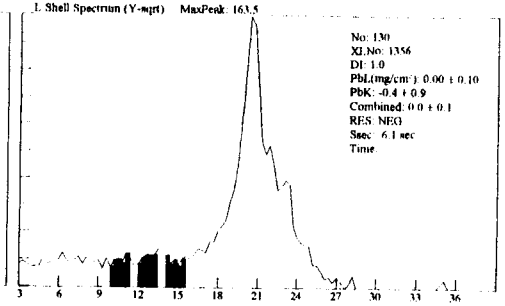

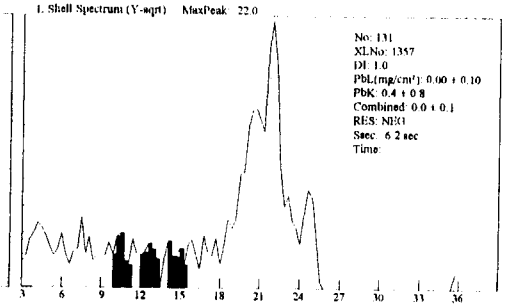

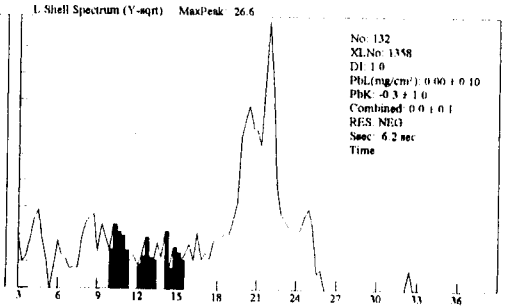

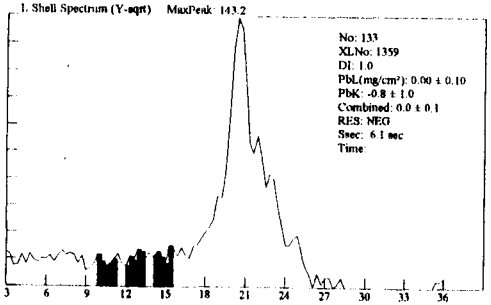

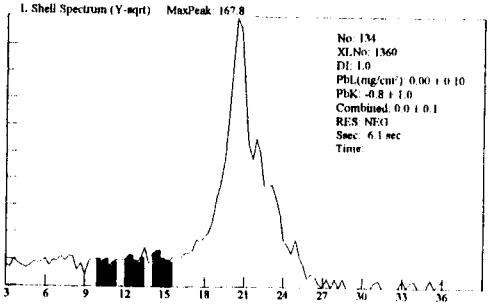

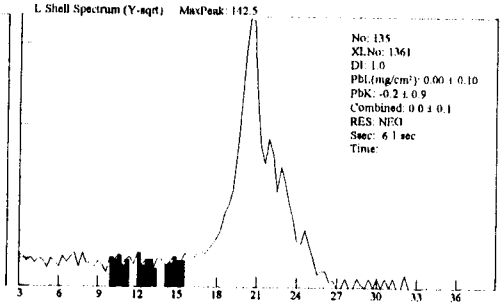

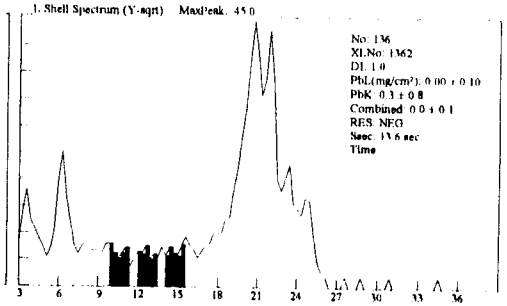

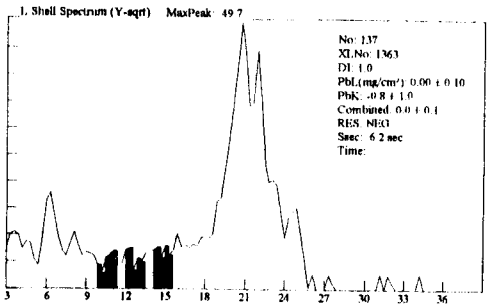

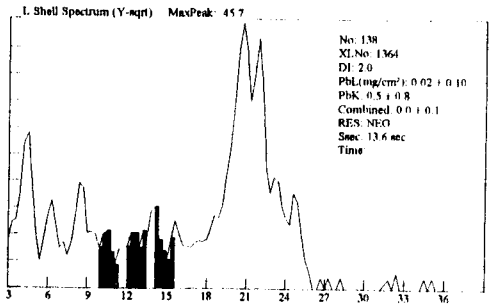

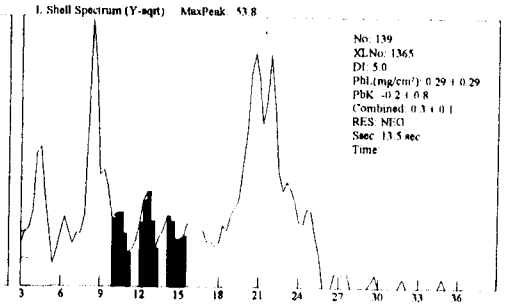

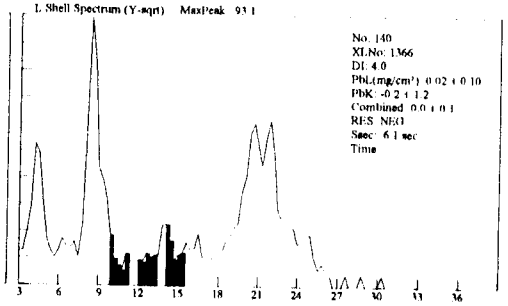

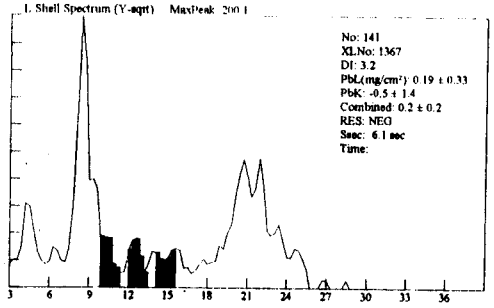

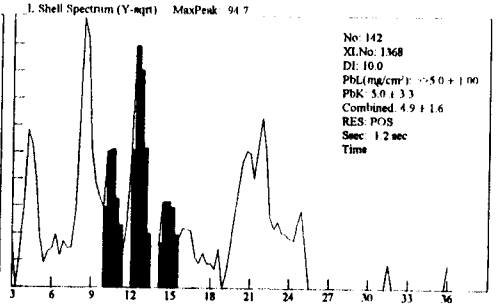

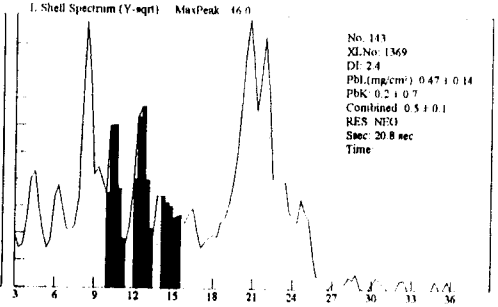

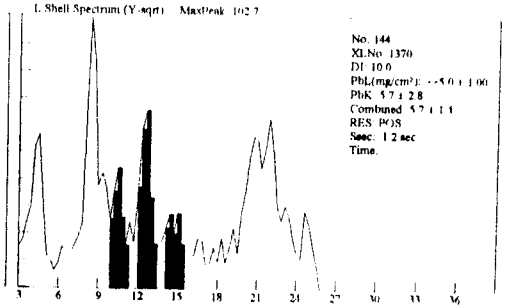

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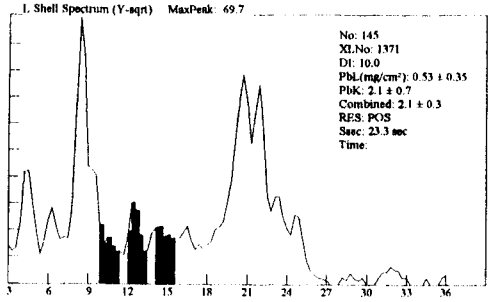

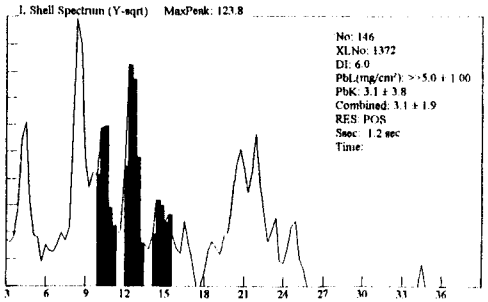

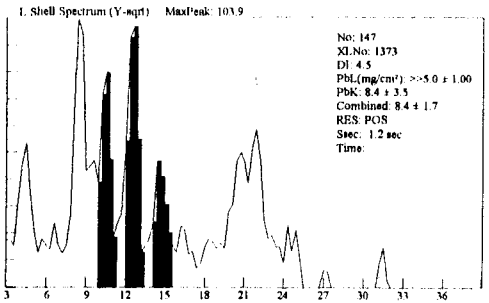

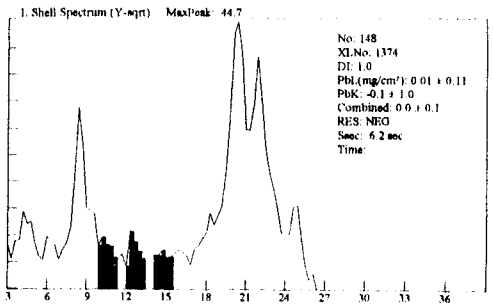

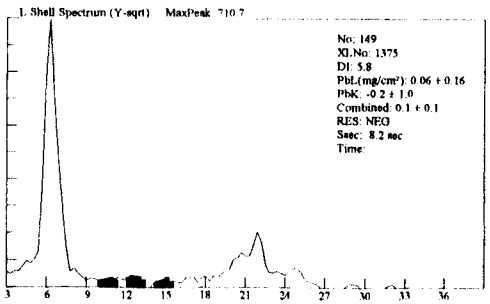

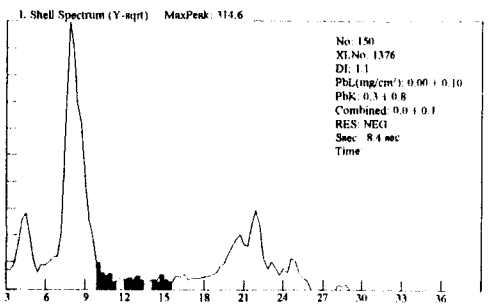

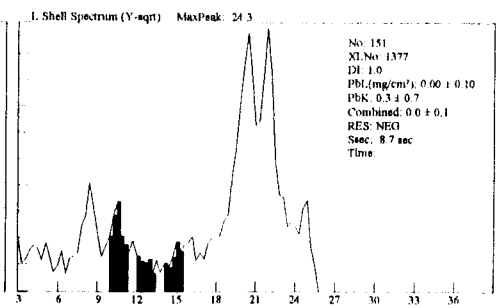

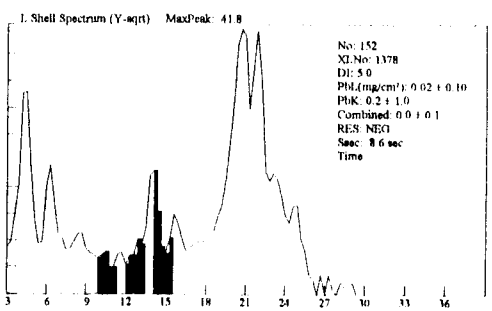

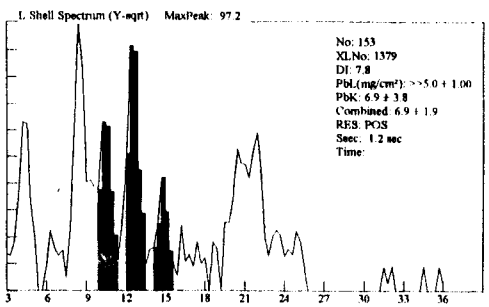

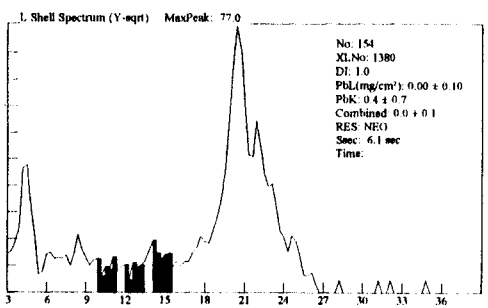

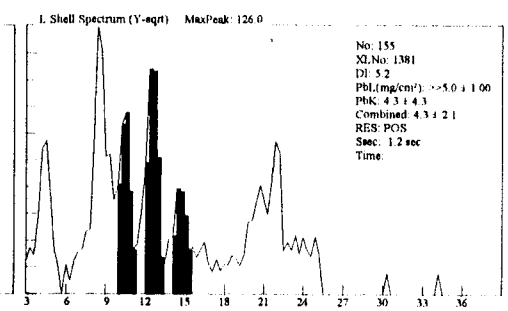

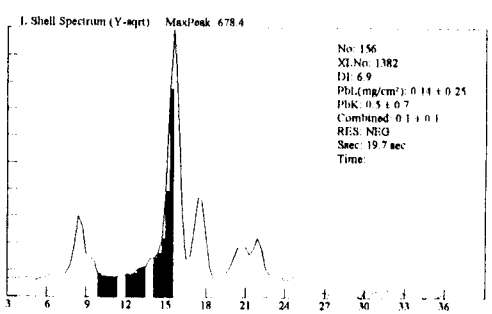

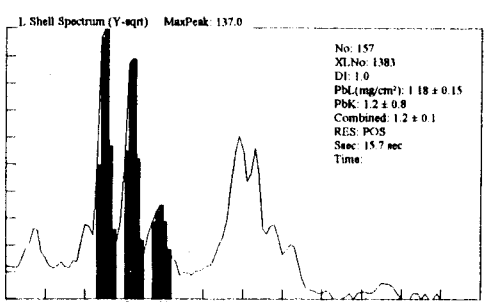

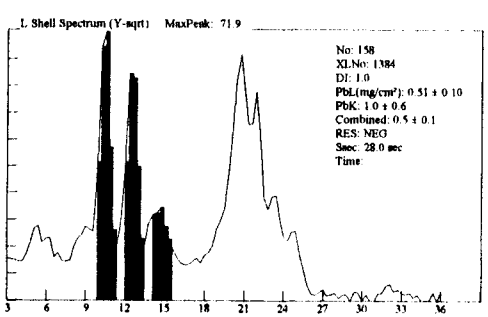

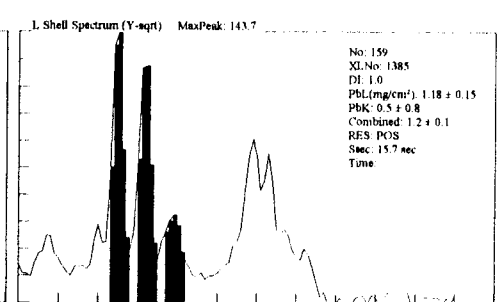

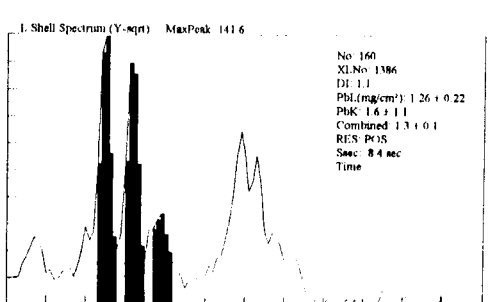

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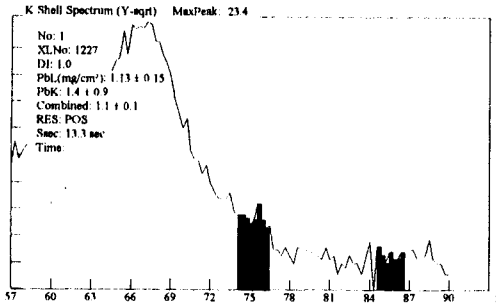

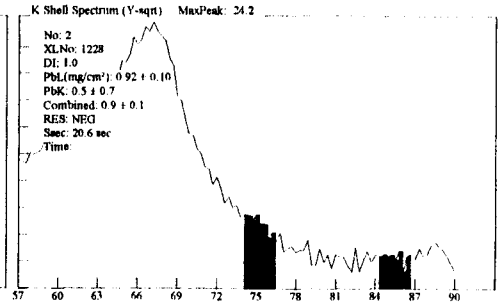

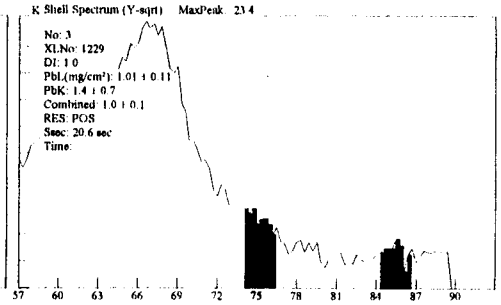

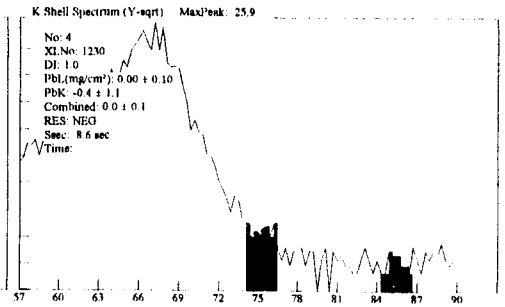

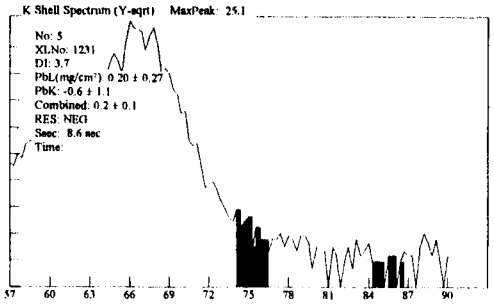

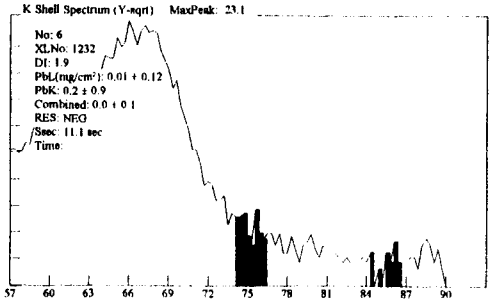

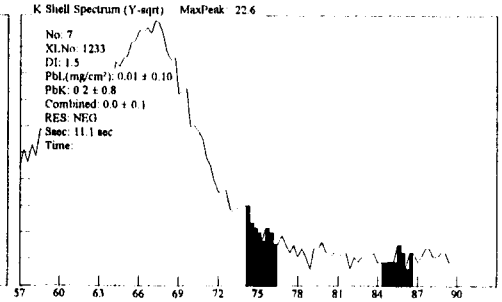

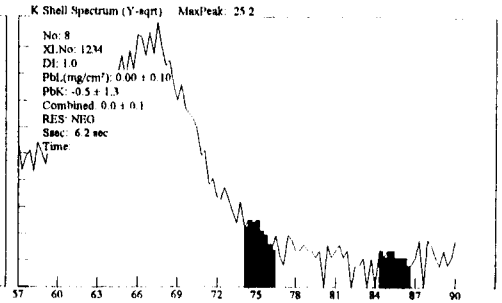

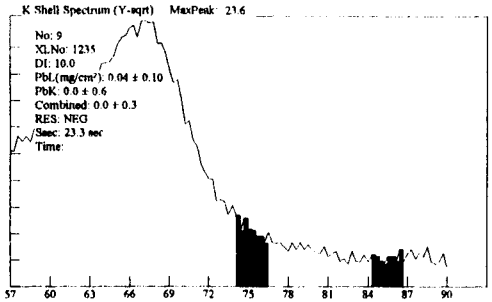

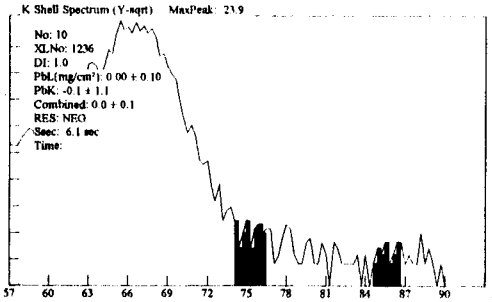

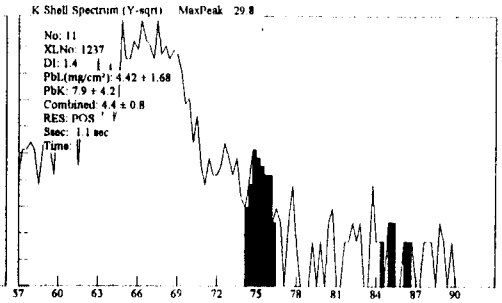

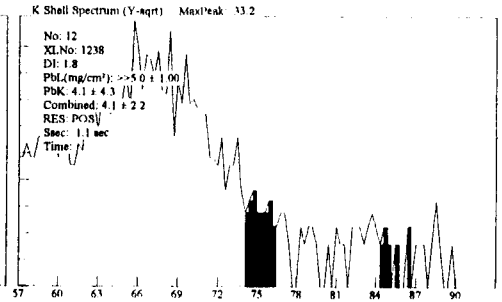

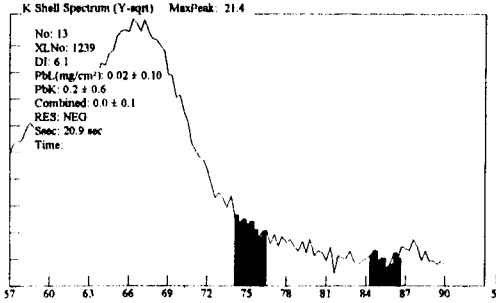

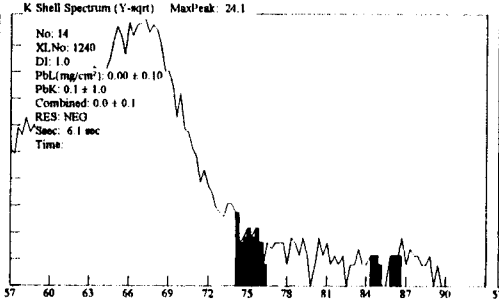

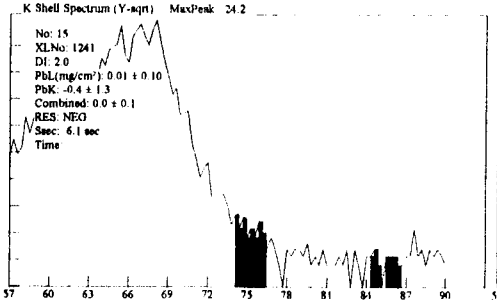

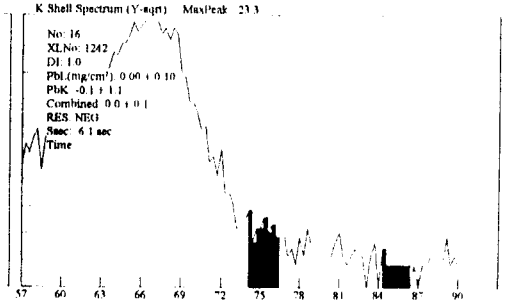

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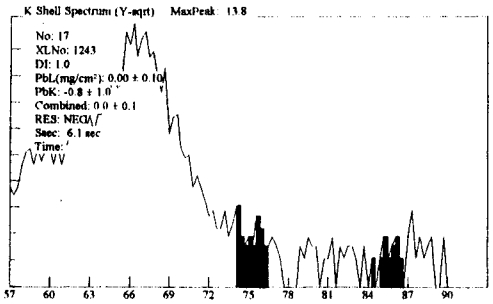

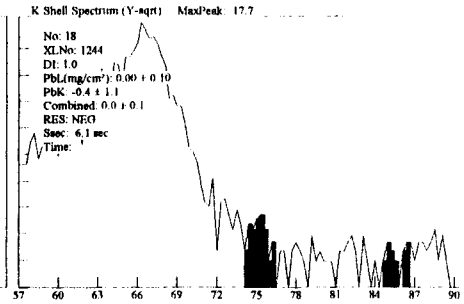

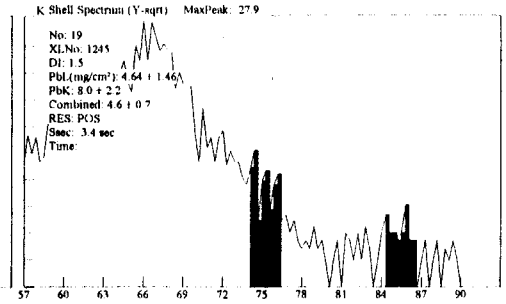

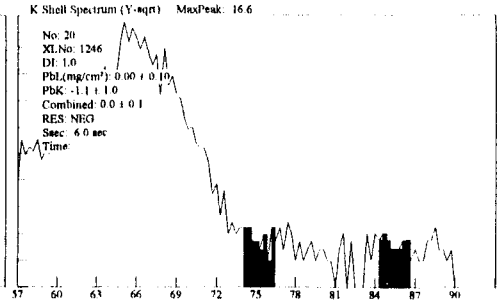

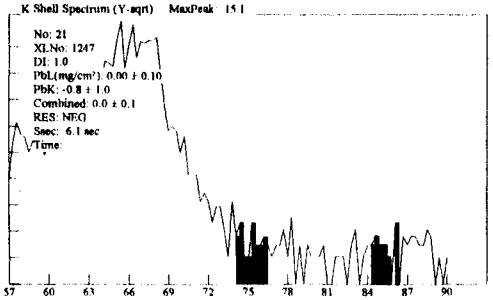

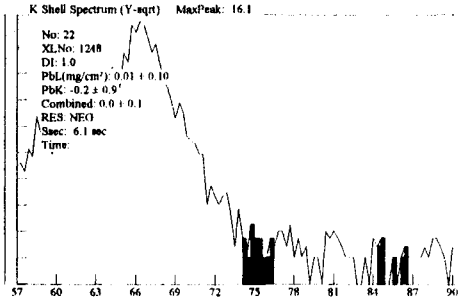

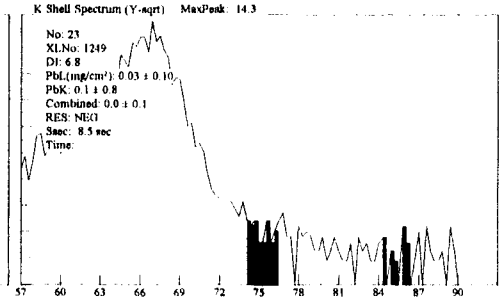

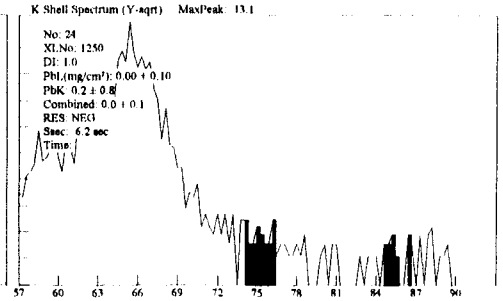

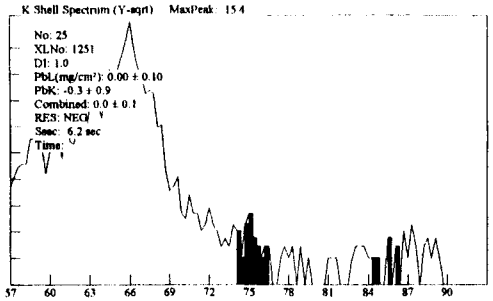

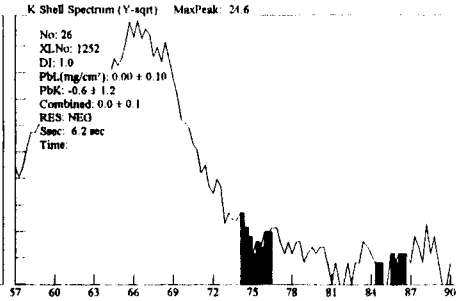

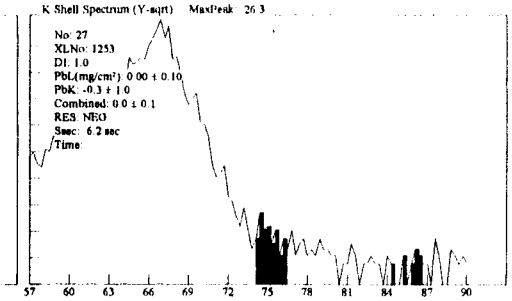

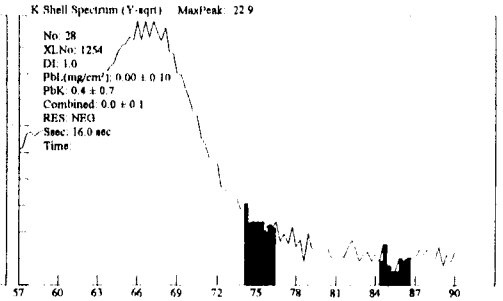

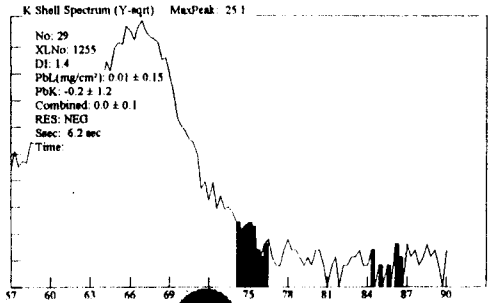

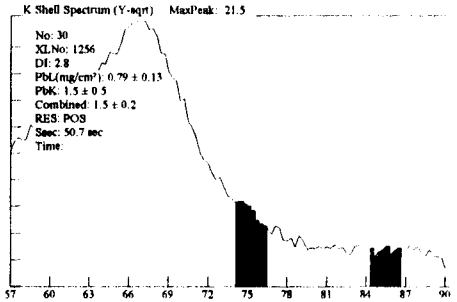

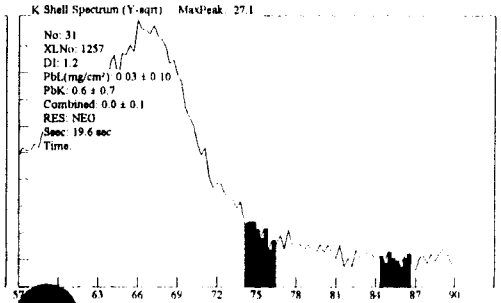

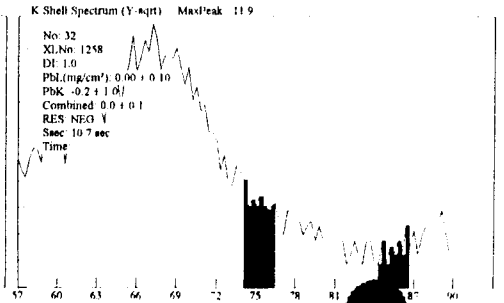

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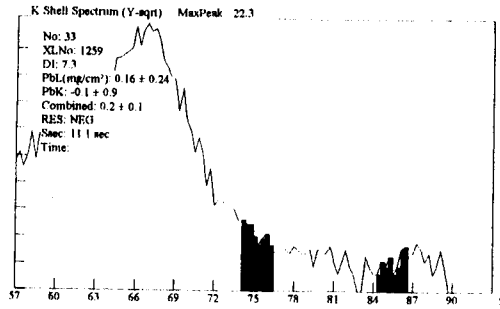

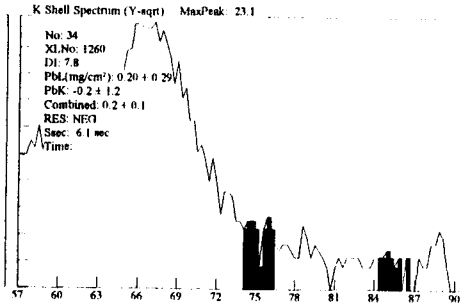

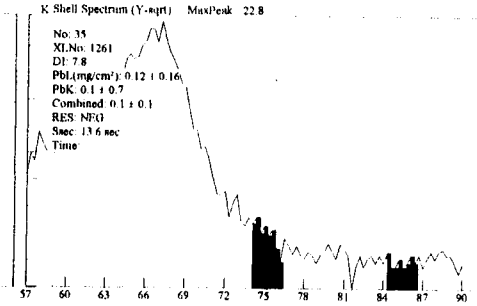

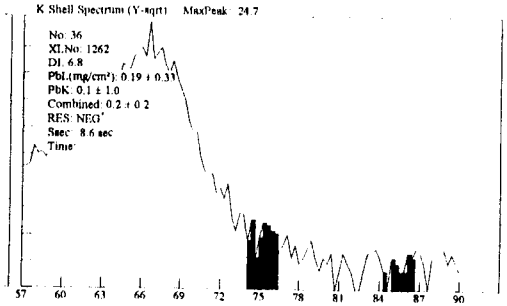

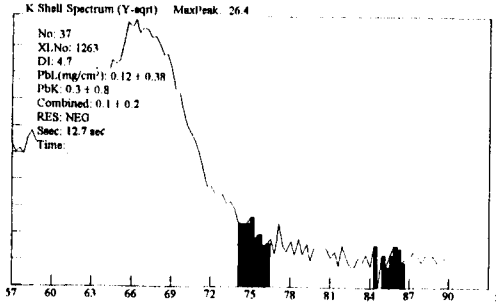

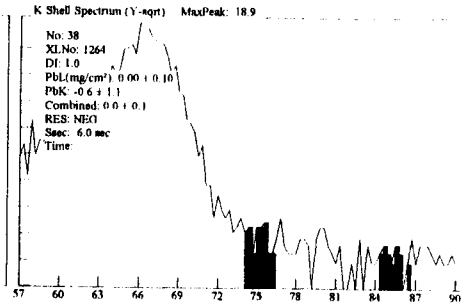

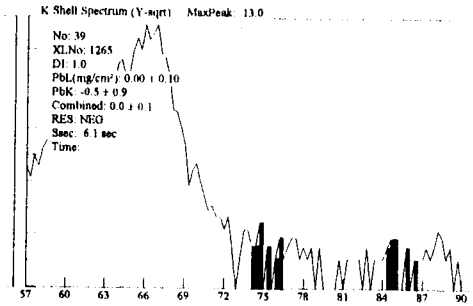

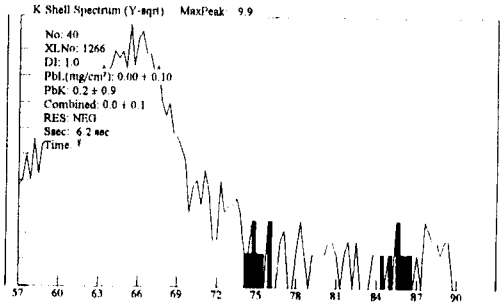

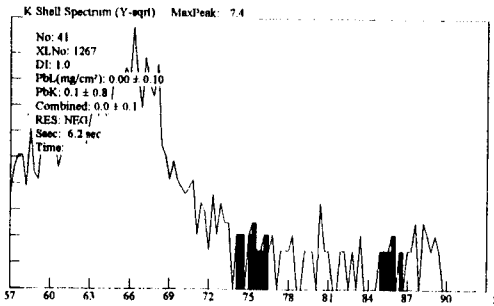

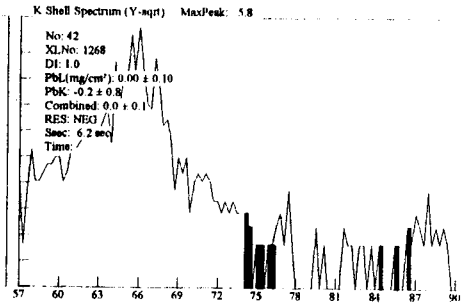

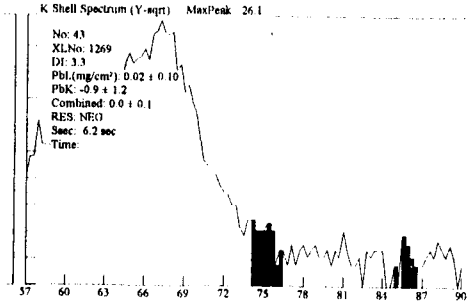

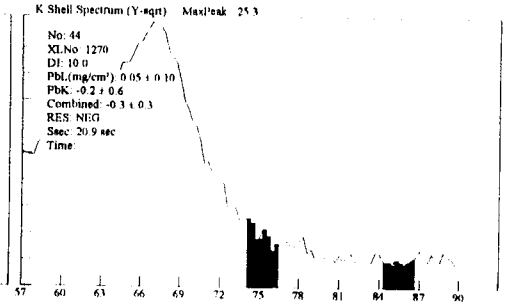

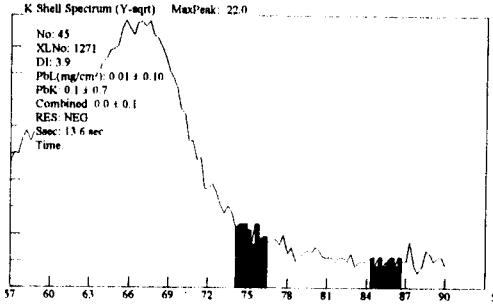

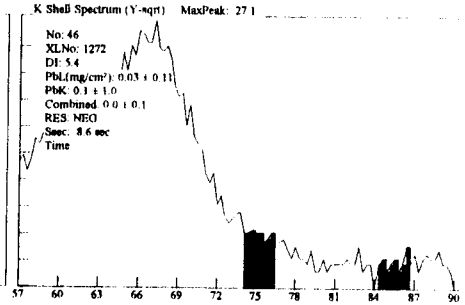

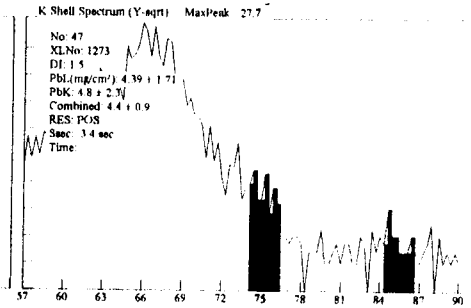

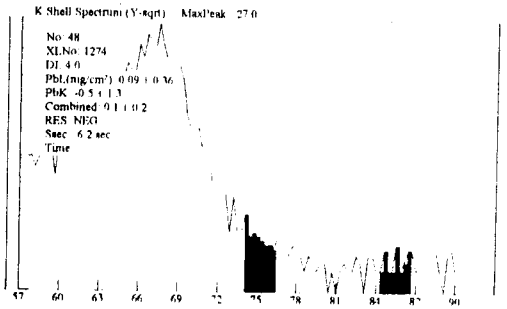

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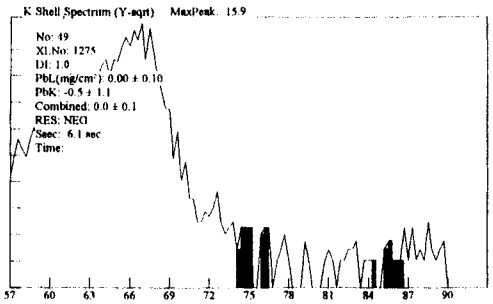

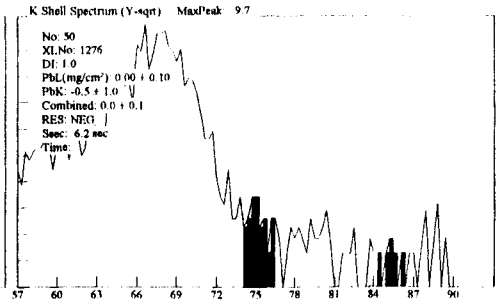

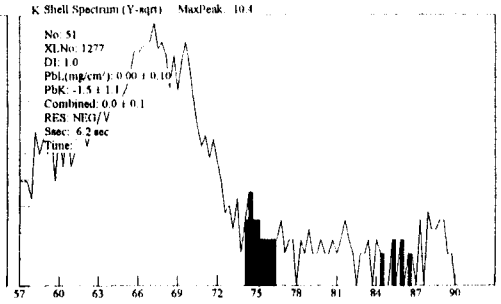

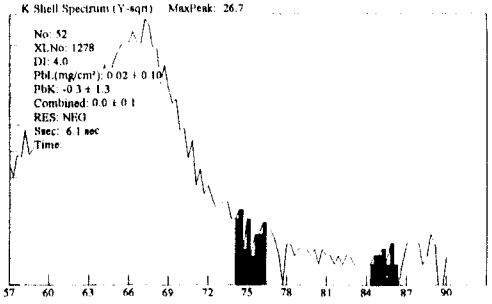

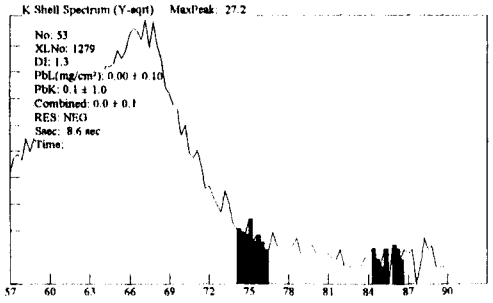

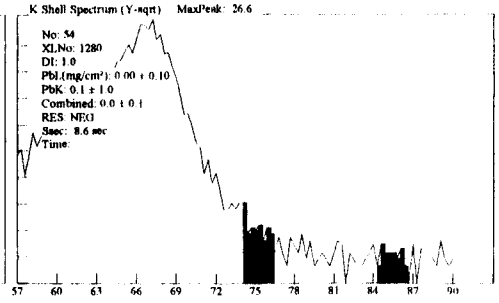

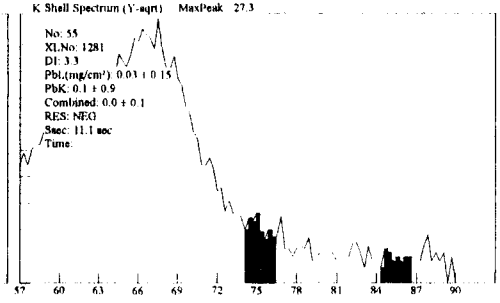

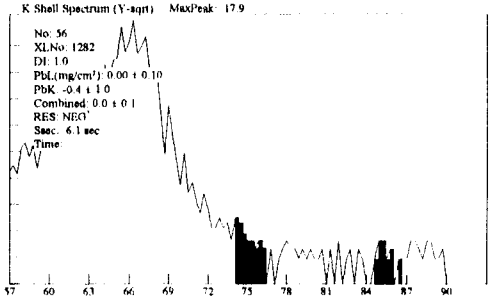

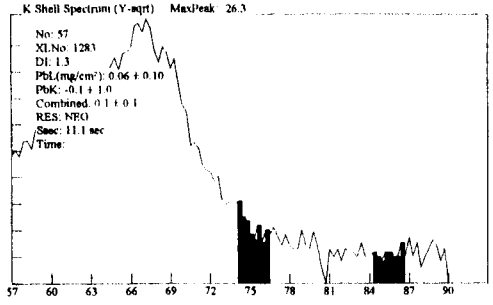

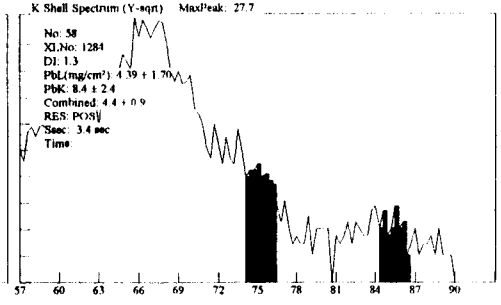

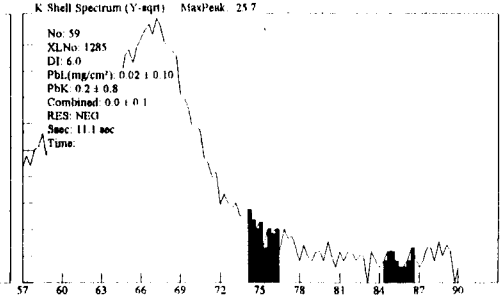

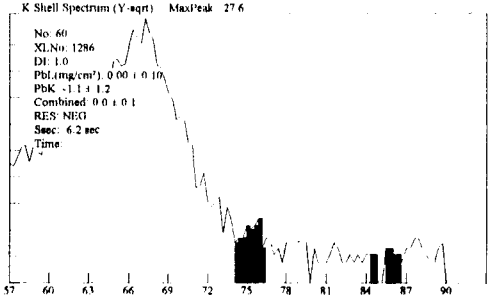

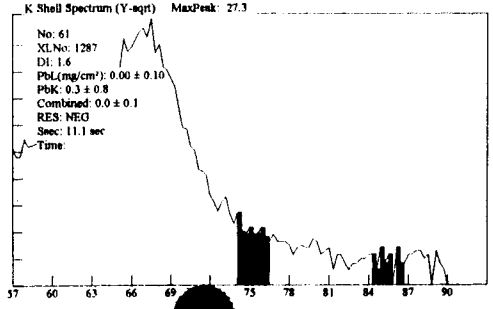

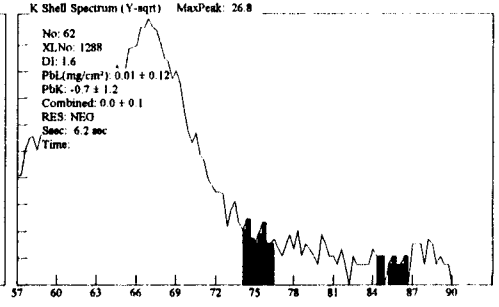

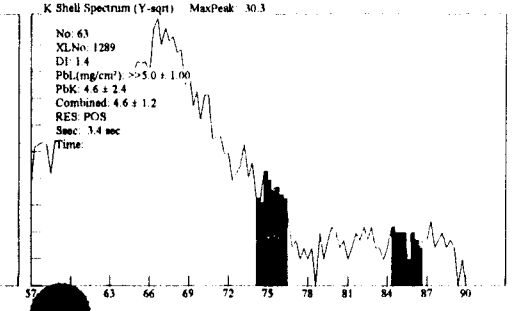

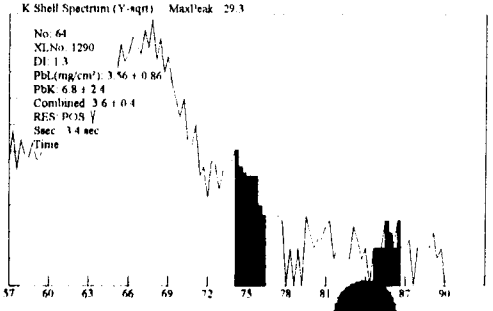

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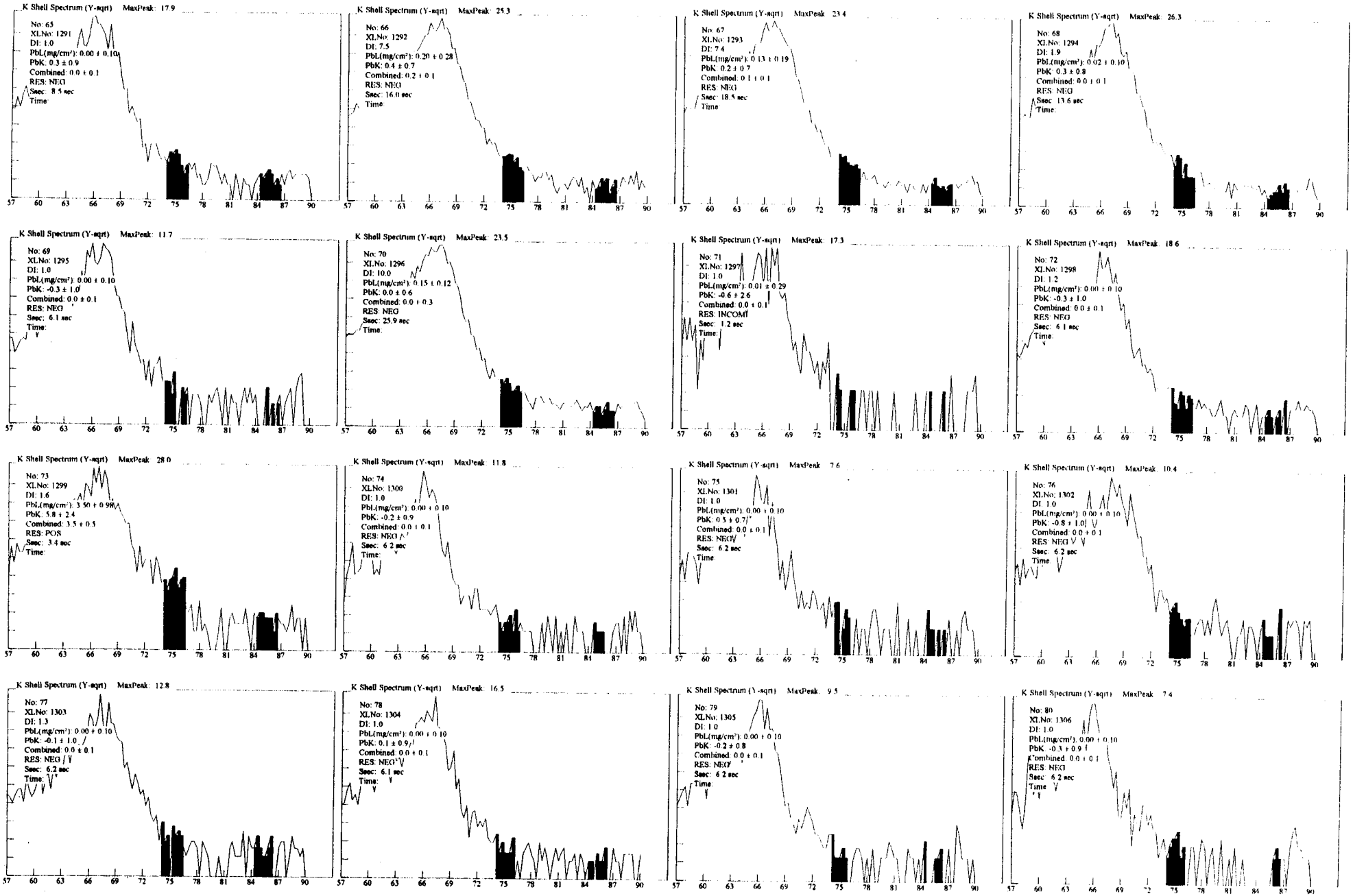

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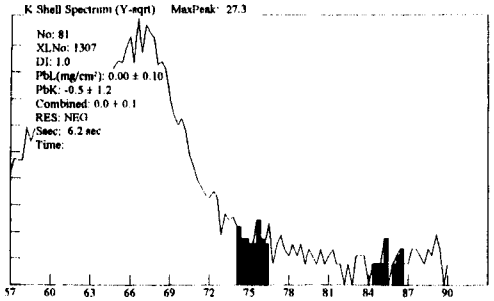

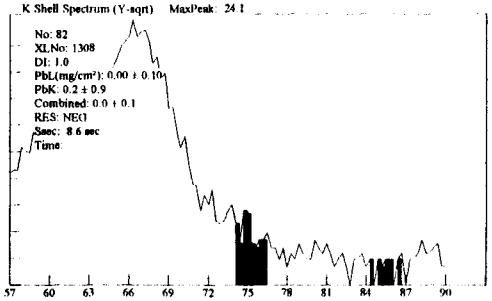

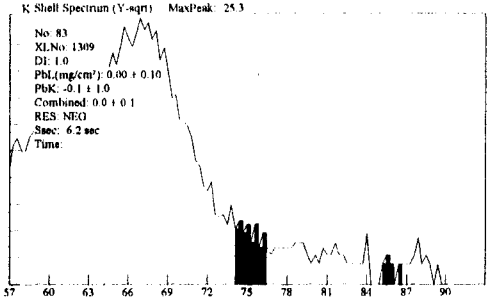

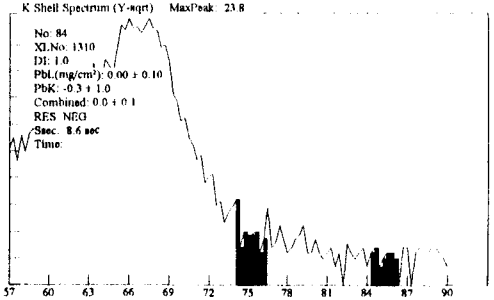

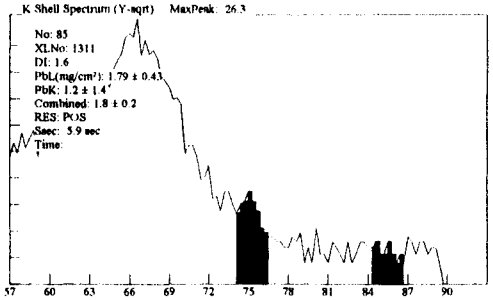

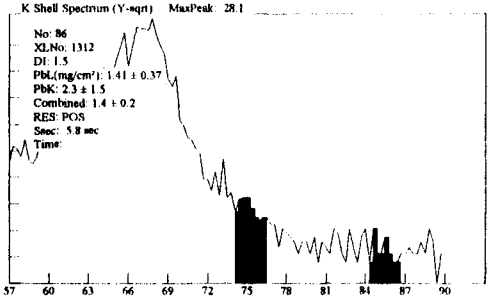

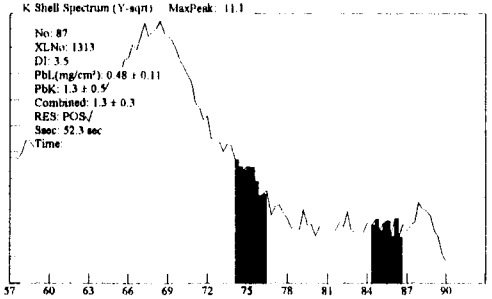

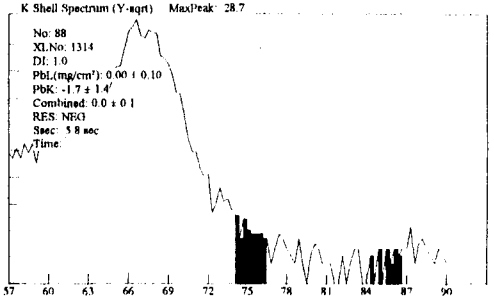

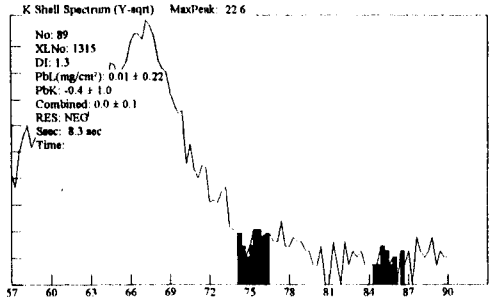

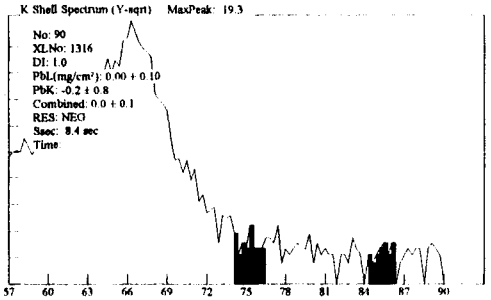

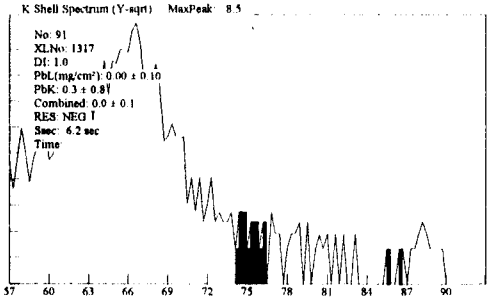

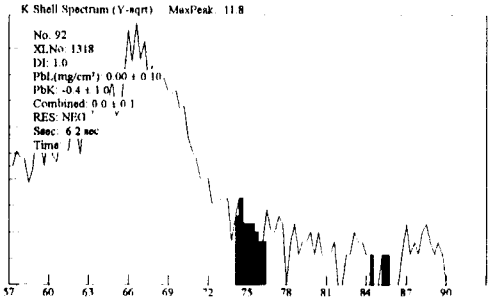

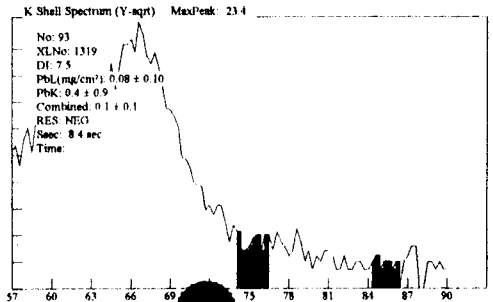

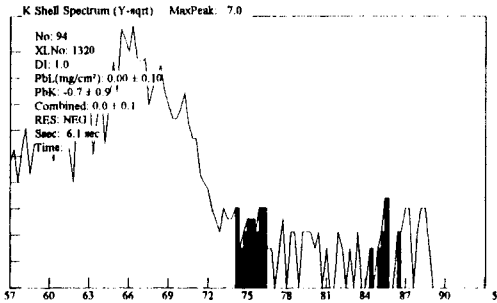

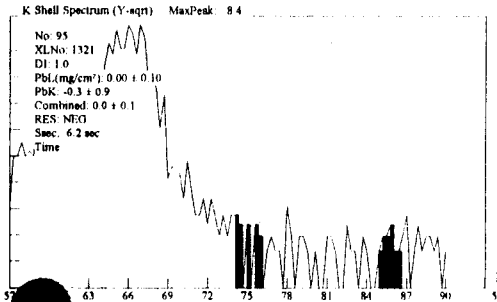

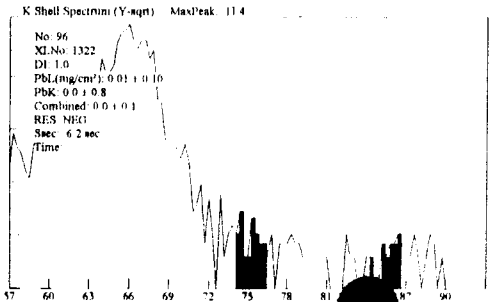

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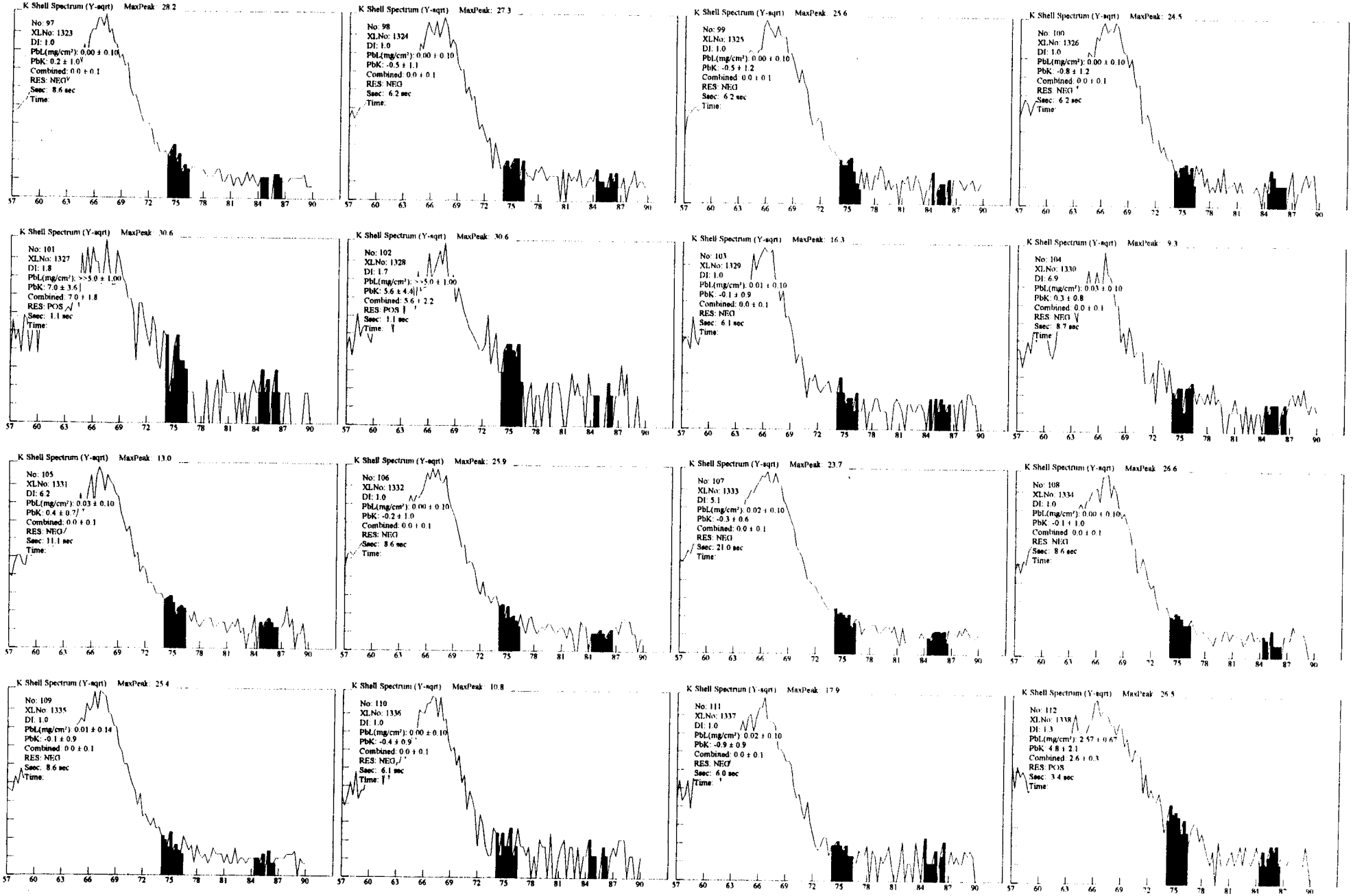

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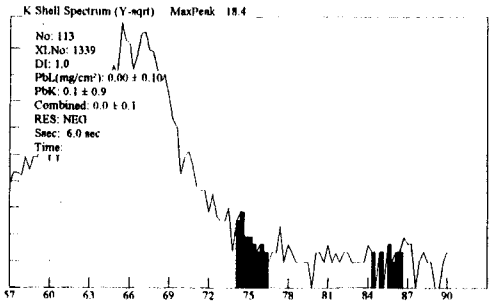

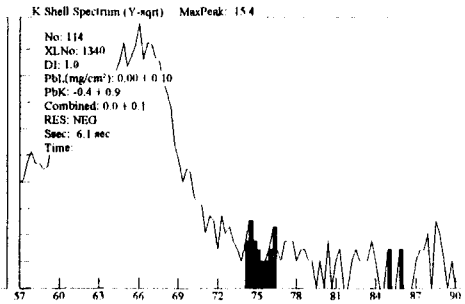

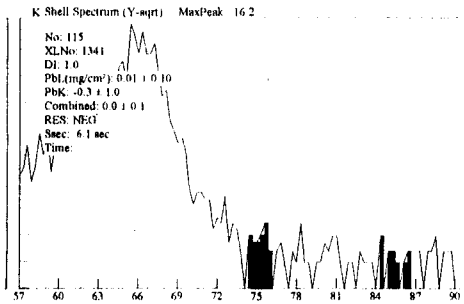

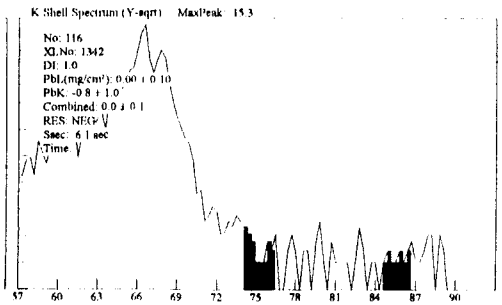

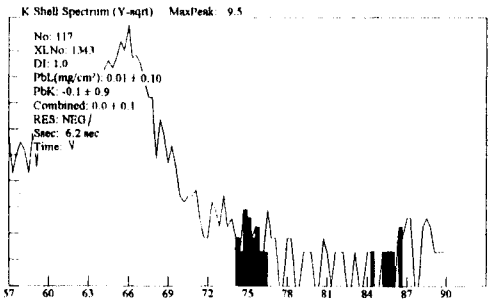

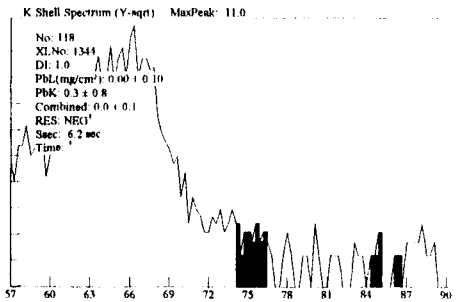

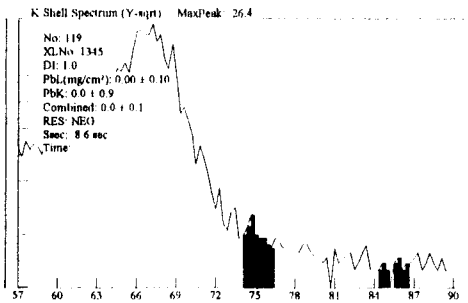

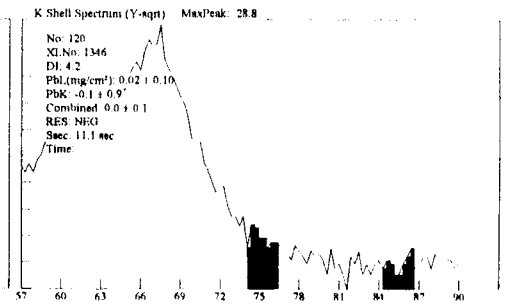

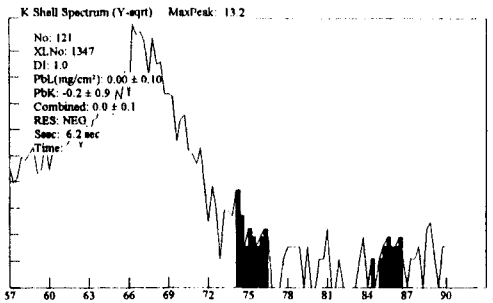

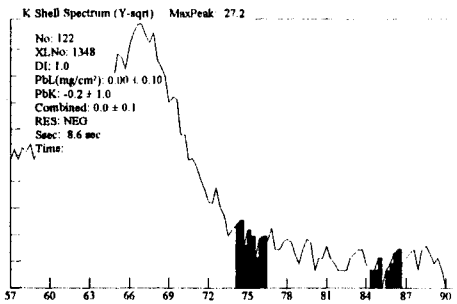

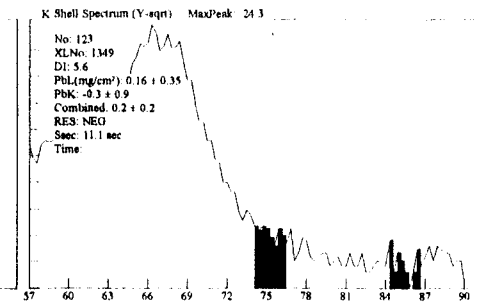

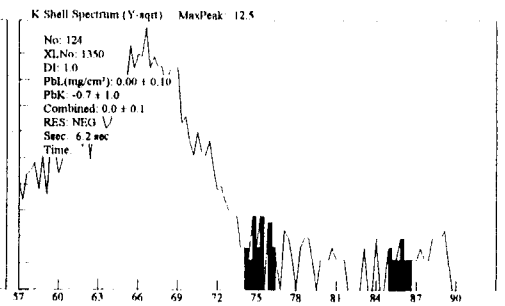

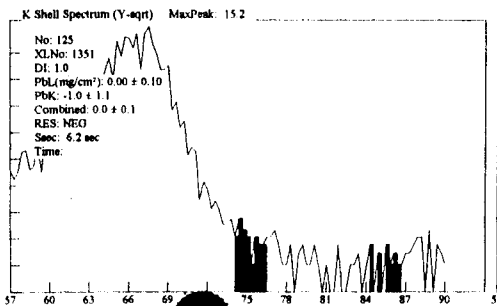

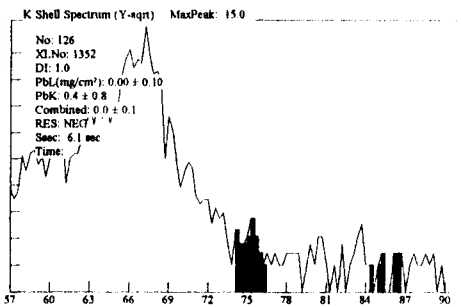

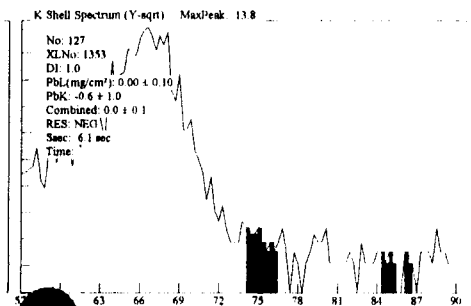

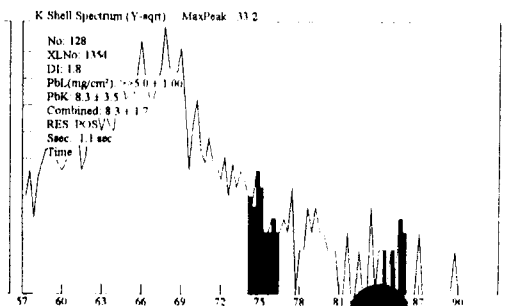

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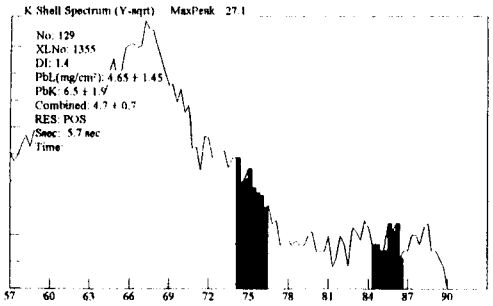

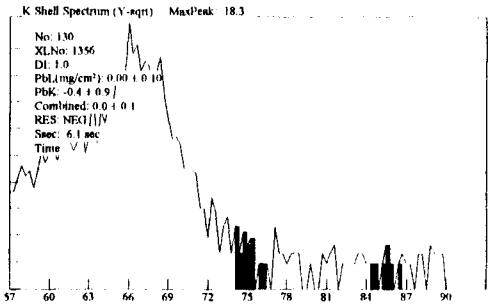

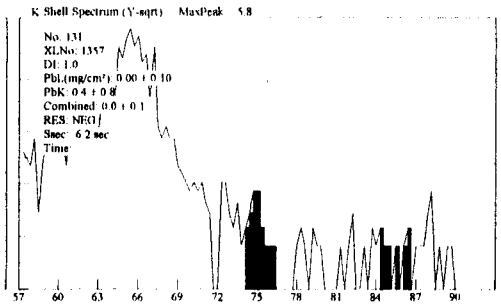

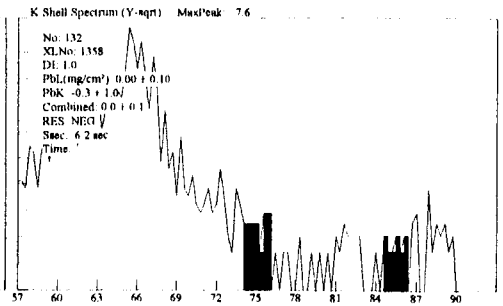

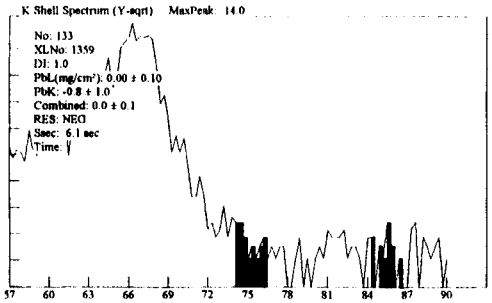

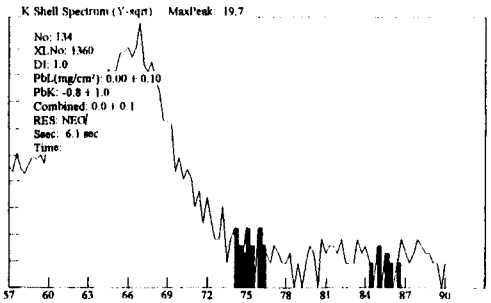

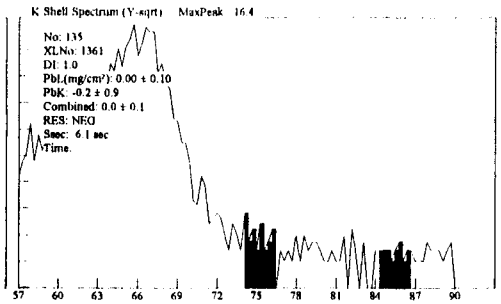

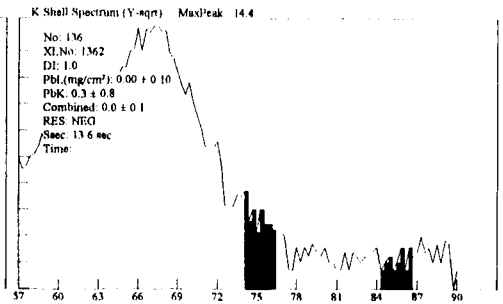

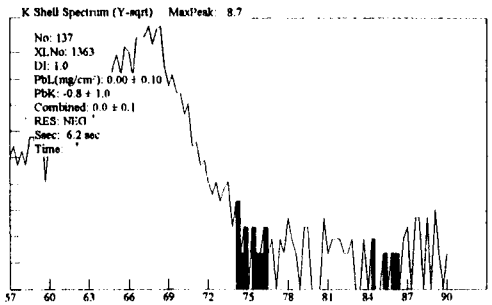

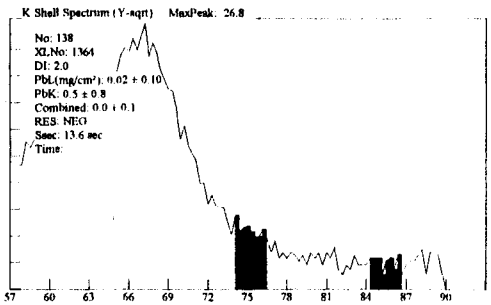

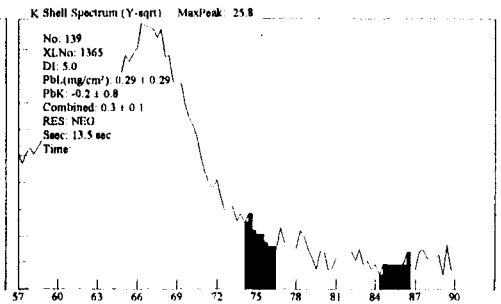

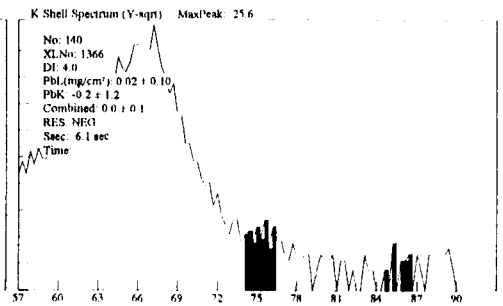

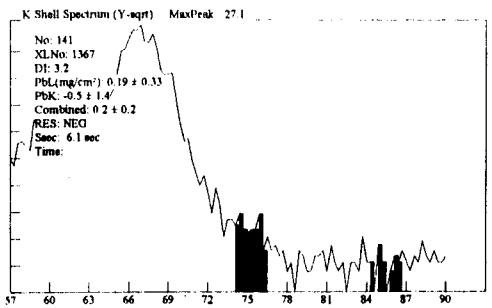

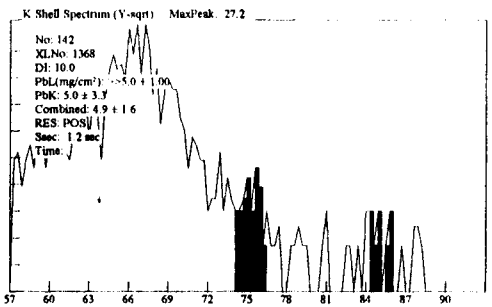

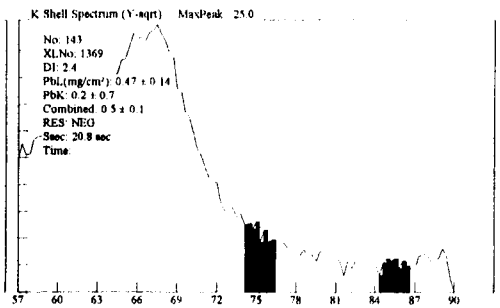

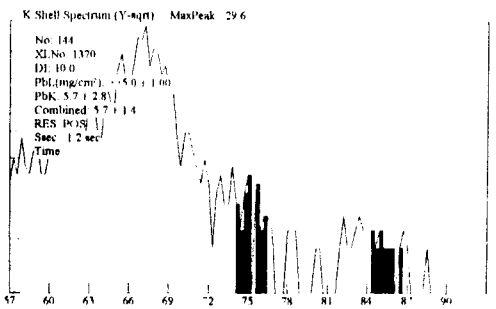

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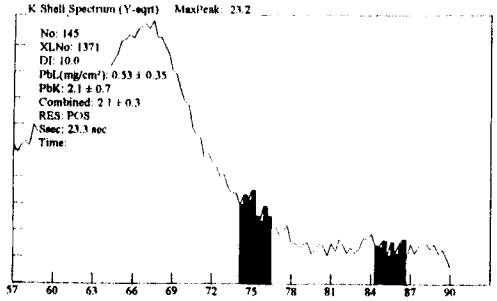

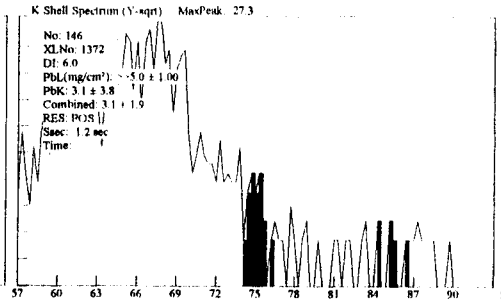

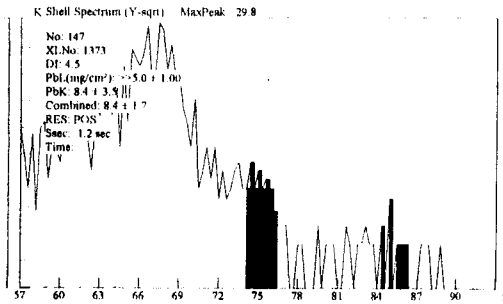

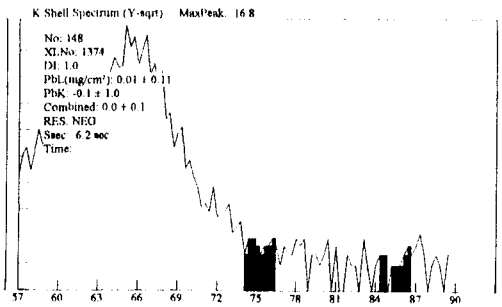

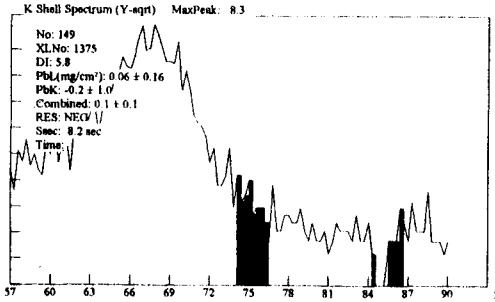

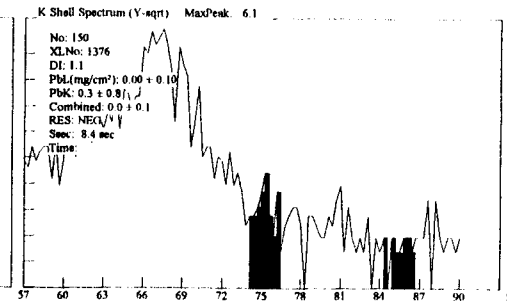

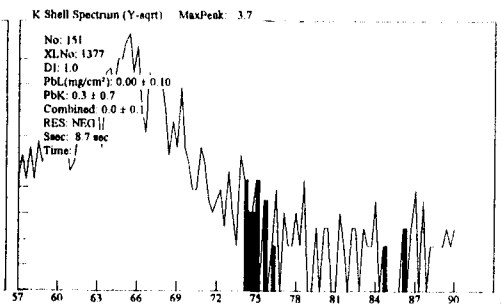

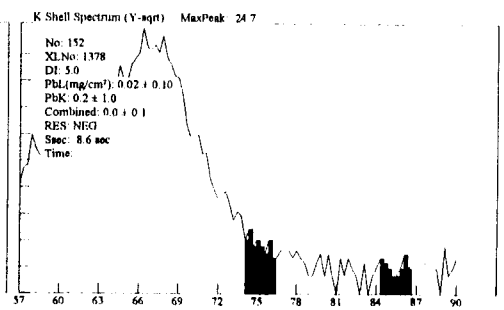

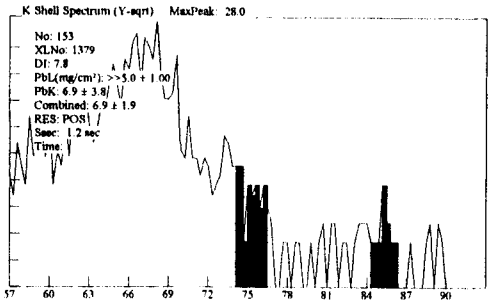

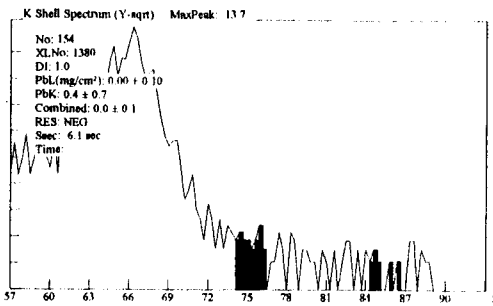

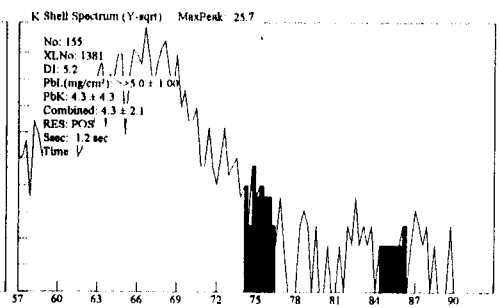

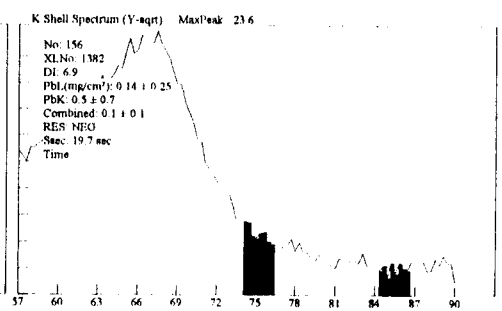

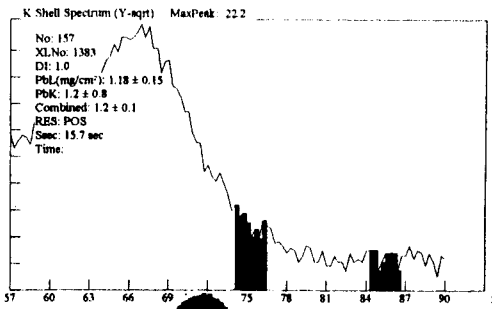

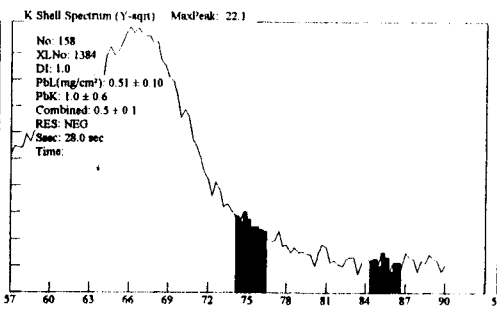

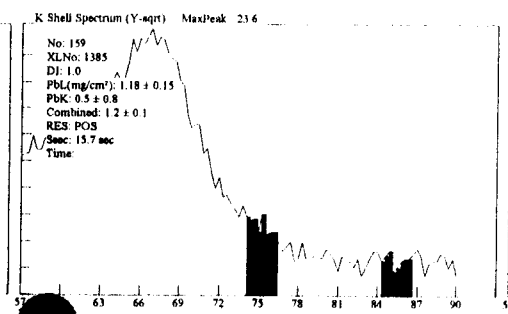

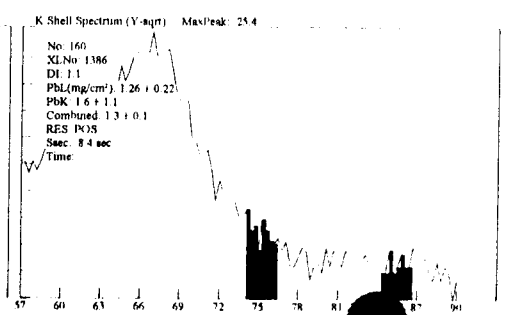

446B

Serial #XL309-U12673701LY Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
2	1388	1.18 ± 0.14	POS	1.0 ± 0.8	1.2 ± 0.1	1.0	18.1	3/31/100	14:24:35
3	1389	1.12 ± 0.16	POS	1.4 ± 0.9	1.1 ± 0.1	1.0	10.9	3/31/100	14:25:18
6	1392	1.26 ± 0.19	POS	0.0 ± 0.9	1.3 ± 0.1	1.1	10.8	3/31/100	14:27:34
7	1393	1.65 ± 0.31	POS	1.5 ± 1.4	1.7 ± 0.2	1.1	6.0	3/31/100	14:45:37
8	1394	1.69 ± 0.32	POS	1.1 ± 1.3	1.7 ± 0.2	1.1	6.0	3/31/100	14:46:09
13	1399	1.55 ± 0.26	POS	0.4 ± 1.9	1.5 ± 0.1	1.0	3.6	3/31/100	15:40:37
14	1400	1.56 ± 0.30	POS	1.2 ± 1.7	1.6 ± 0.1	1.0	3.6	3/31/100	15:41:00
15	1401	1.95 ± 0.49	POS	0.3 ± 1.8	2.0 ± 0.2	1.2	3.6	3/31/100	15:41:17
25	1411	4.14 ± 1.96	POS	6.9 ± 2.1	6.9 ± 1.1	1.5	3.4	3/31/100	15:46:11
26	1412	>>5.0 ± 1.00	POS	6.6 ± 4.1	6.6 ± 2.0	1.5	1.1	3/31/100	15:46:39
37	1423	4.25 ± 1.84	POS	6.8 ± 2.3	6.8 ± 1.2	1.4	3.4	3/31/100	15:55:10
45	1431	0.82 ± 0.14	POS	1.3 ± 0.5	1.3 ± 0.2	3.2	50.7	3/31/100	15:58:50
56	1442	>>5.0 ± 1.00	POS	6.2 ± 4.5	6.2 ± 2.2	1.5	1.1	3/31/100	16:05:42
57	1443	4.63 ± 1.47	POS	5.9 ± 4.1	4.6 ± 0.7	1.5	1.1	3/31/100	16:05:51
63	1449	0.44 ± 0.33	POS	2.2 ± 0.7	2.2 ± 0.4	7.3	20.9	3/31/100	16:09:03
66	1452	>>5.0 ± 1.00	POS	7.2 ± 4.6	7.2 ± 2.3	1.7	1.1	3/31/100	16:11:38
67	1453	>>5.0 ± 1.00	POS	9.3 ± 2.5	9.3 ± 1.2	1.4	3.4	3/31/100	16:11:48
73	1459	>>5.0 ± 1.00	POS	8.6 ± 4.2	8.6 ± 2.1	1.5	1.1	3/31/100	16:15:09
78	1464	>>5.0 ± 1.00	POS	4.2 ± 4.0	4.2 ± 2.0	1.6	1.1	3/31/100	16:20:19
79	1465	4.56 ± 1.54	POS	5.7 ± 3.7	4.6 ± 0.8	1.5	1.1	3/31/100	16:20:26
102	1488	1.73 ± 0.40	POS	1.9 ± 1.4	1.7 ± 0.2	1.5	5.9	3/31/100	16:31:14
103	1489	1.19 ± 0.22	POS	1.3 ± 1.0	1.2 ± 0.1	1.6	12.7	3/31/100	16:31:33
120	1506	3.66 ± 2.43	POS	8.5 ± 3.5	8.4 ± 1.7	1.3	1.1	3/31/100	16:40:41
121	1507	>>5.0 ± 1.00	POS	4.0 ± 4.2	4.0 ± 2.1	1.6	1.1	3/31/100	16:40:50
146	1532	1.82 ± 0.37	POS	6.1 ± 1.7	1.8 ± 0.2	1.3	5.9	3/31/100	16:56:35
147	1533	>>5.0 ± 1.00	POS	8.8 ± 4.0	8.8 ± 2.0	1.6	1.1	3/31/100	16:56:54
159	1545	4.[illegible]0 ± 1.50	POS	3.8 ± 3.0	3.8 ± 1.5	8.7	1.2	3/31/100	17:07:12
161	1547	>>5.0 ± 1.00	POS	3.5 ± 4.1	3.5 ± 2.0	7.2	1.2	3/31/100	17:08:35

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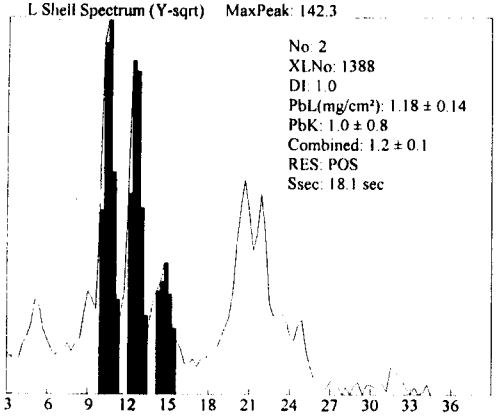
Site: Date: 3/31/100
Ranges (NEG<INC<POS): Device PCS

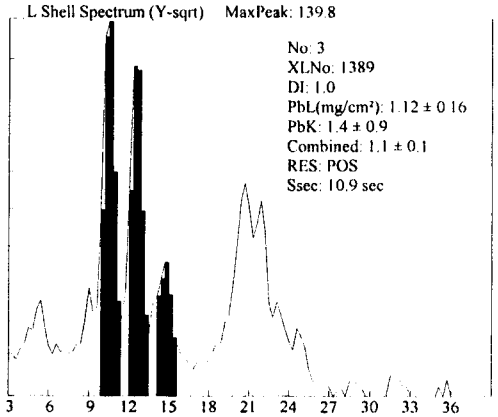
No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
162	1548	>>5.0 ± 1.00	POS	6.3 ± 2.6	6.3 ± 1.3	5.1	3.6	3/31/100	17:09:31
164	1550	4.54 ± 1.56	POS	5.6 ± 4.2	4.5 ± 0.8	6.4	1.2	3/31/100	17:10:41
166	1552	>>5.0 ± 1.00	POS	7.4 ± 2.3	7.4 ± 1.1	5.2	3.6	3/31/100	17:11:55
168	1554	1.65 ± 0.31	POS	1.5 ± 1.5	1.6 ± 0.2	1.1	6.0	3/31/100	17:13:33
169	1555	1.48 ± 0.23	POS	2.4 ± 1.7	1.5 ± 0.1	1.0	3.6	3/31/100	17:13:55
170	1556	1.65 ± 0.31	POS	-0.1 ± 1.5	1.6 ± 0.2	1.1	6.0	3/31/100	17:14:11

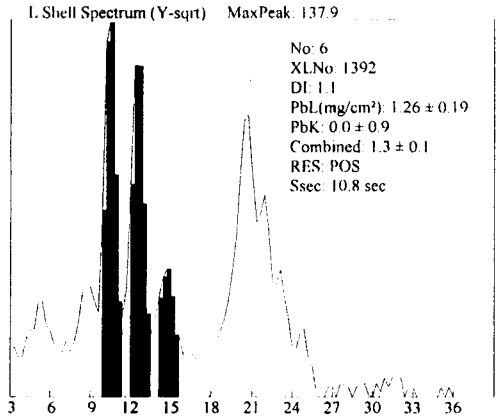
446B

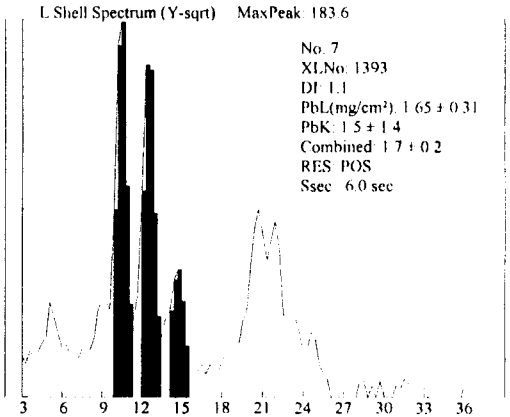
Site: Ranges (NEG<INC<POS): Device PCS

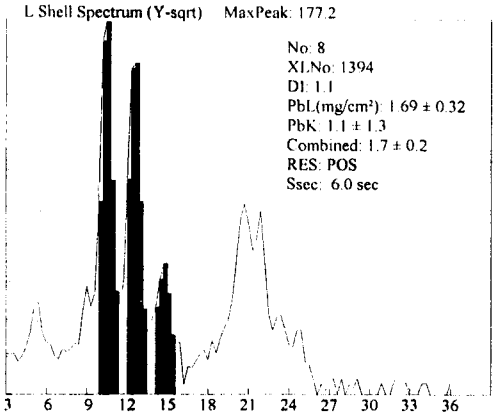
Date: 3/31/100 Paint Page 1

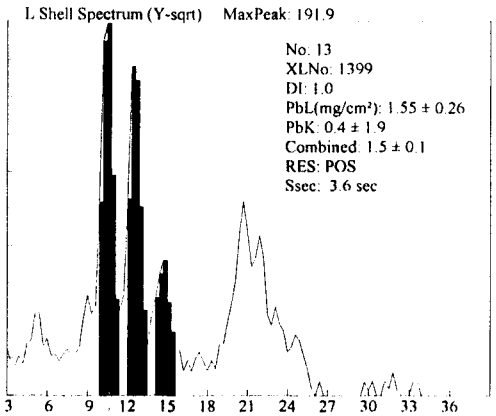


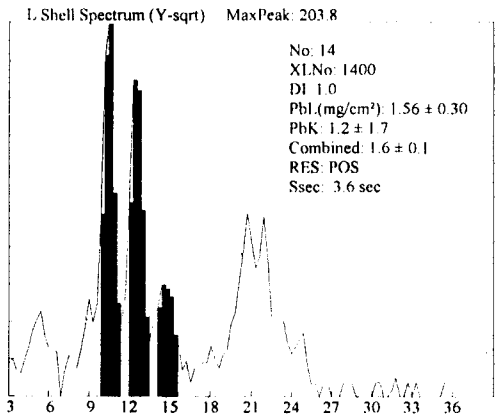


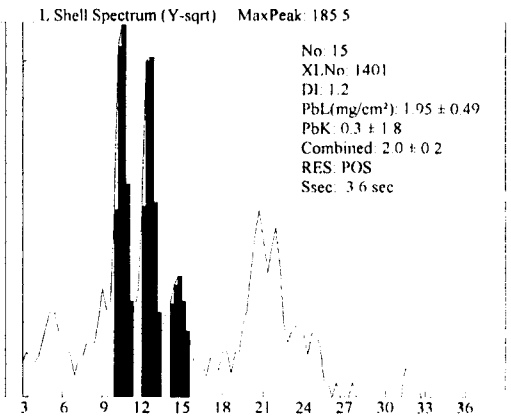


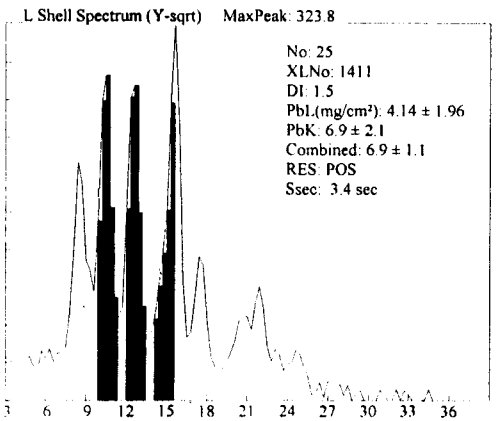


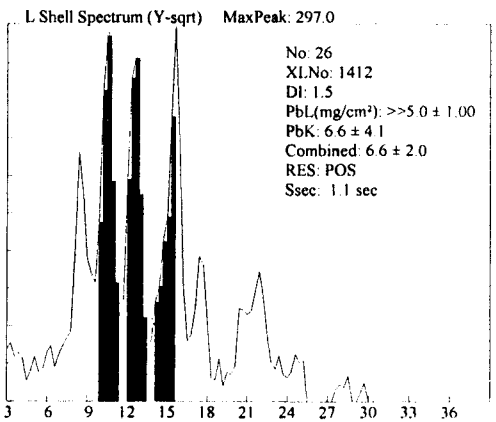


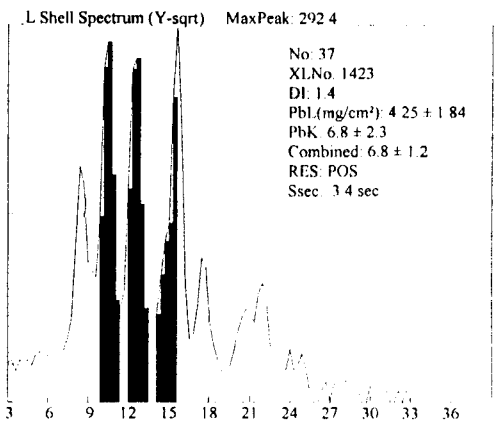


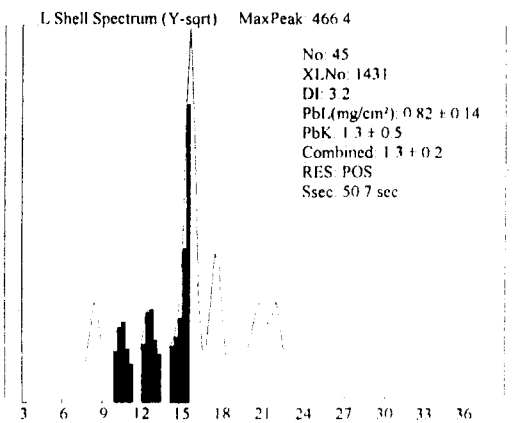








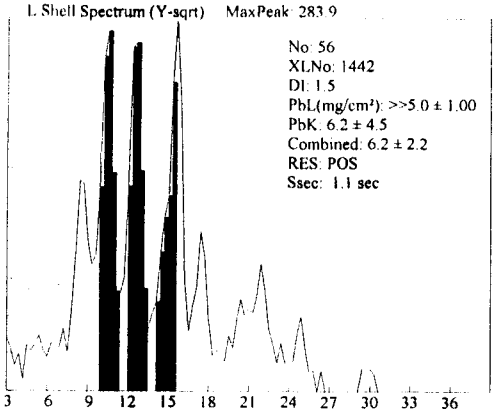


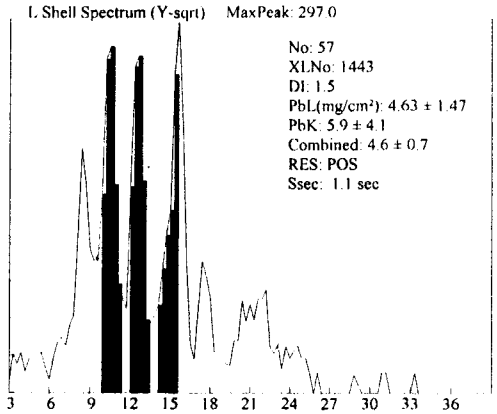


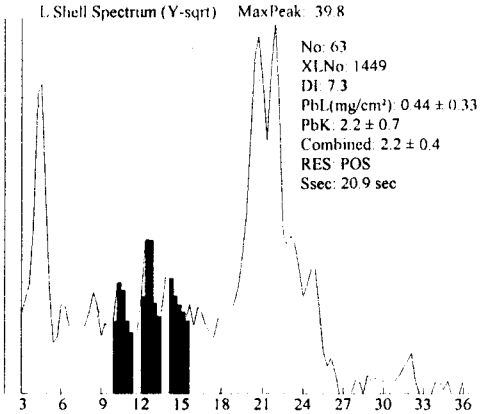
446B

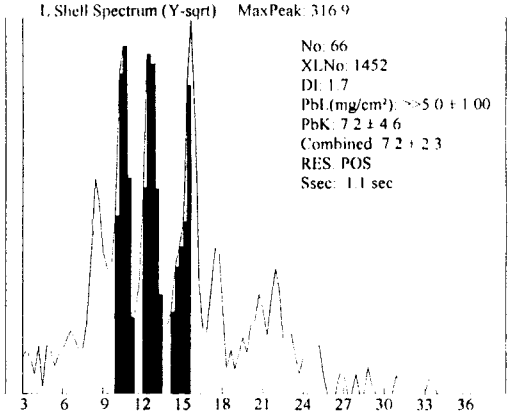
Site: Ranges (NEG<INC<POS): Device PCS

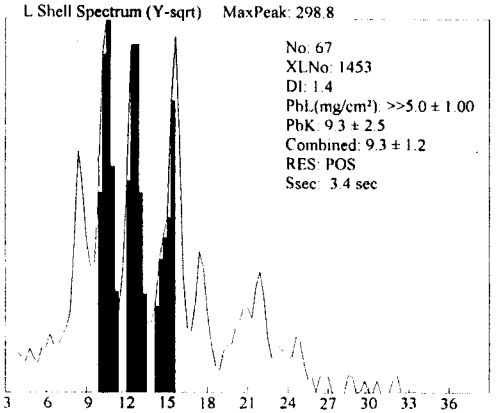
Date: 3/31/100 Paint Page 2

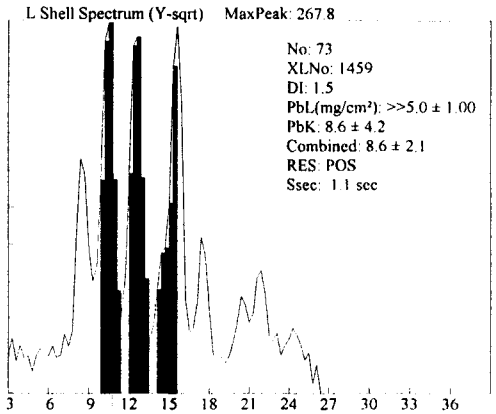


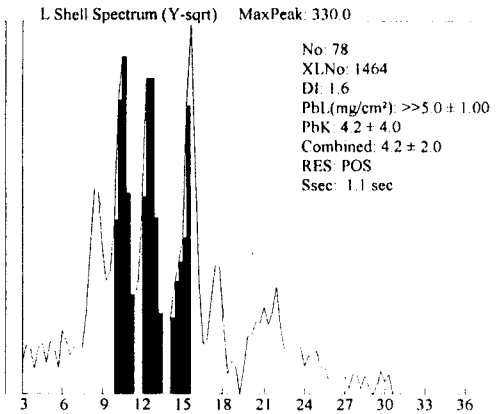


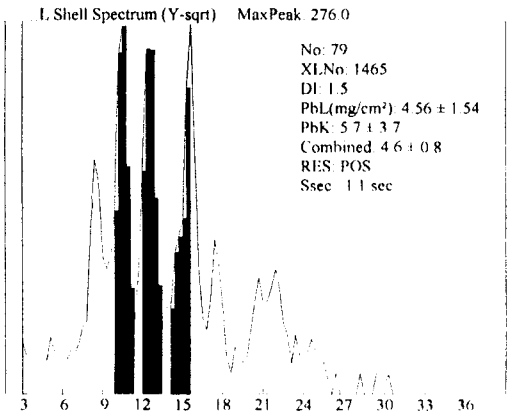


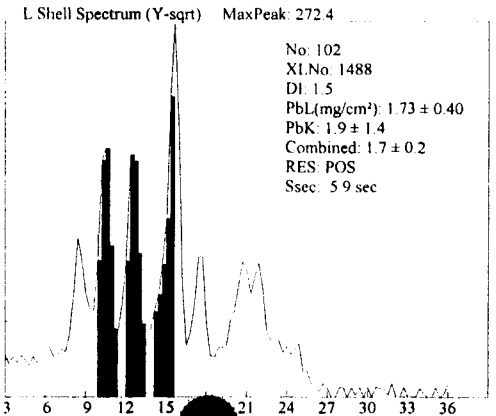


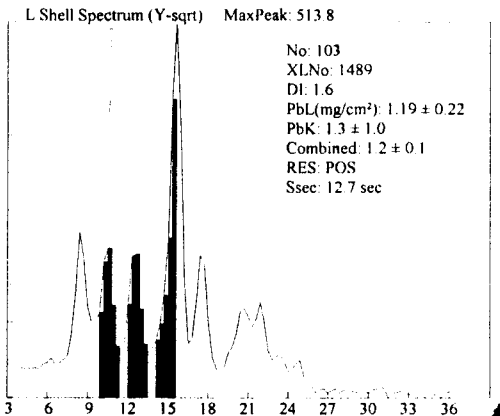


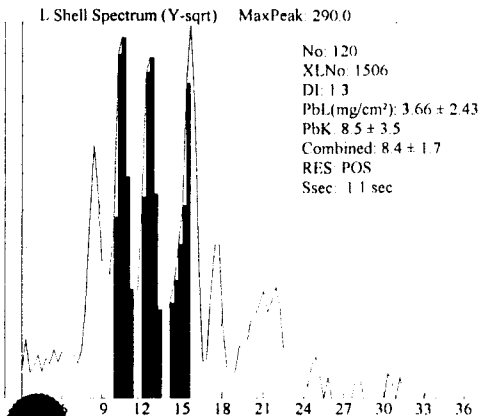


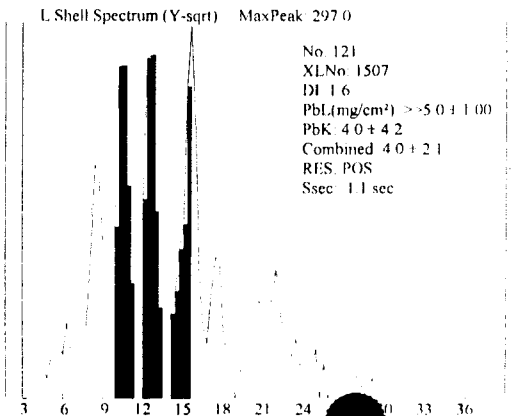










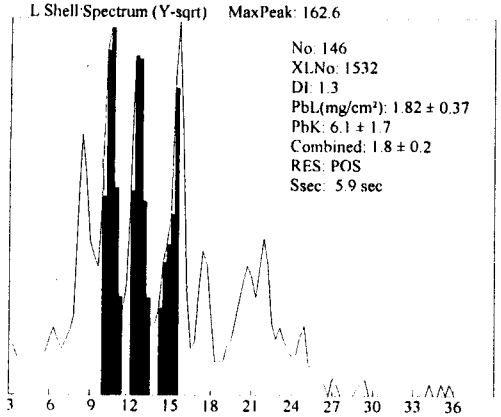


446B

Site: Ranges (NEG<INC<POS): Device PCS

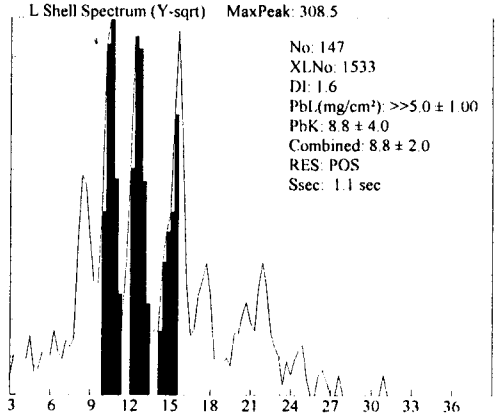
Date: 3/31/100 Paint Page 3

L Shell Spectrum (Y-sqrt) MaxPeak: 162.6



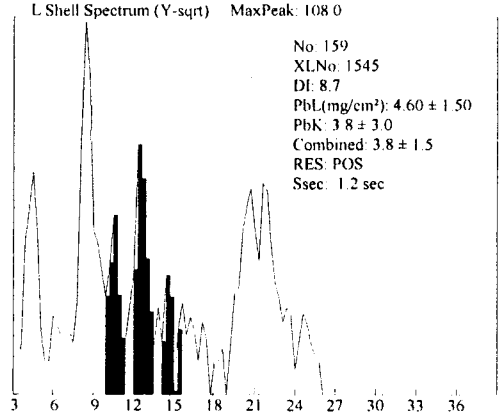
No: 146
XLNo: 1532
DI: 1.3
PbL(mg/cm²): 1.82 ± 0.37
PbK: 6.1 ± 1.7
Combined: 1.8 ± 0.2
RES: POS
Ssec: 5.9 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 308.5



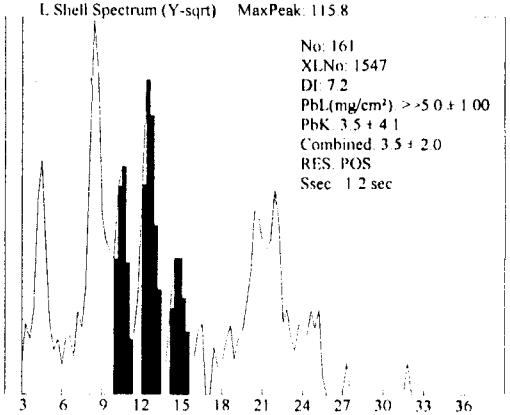
No: 147
XLNo: 1533
DI: 1.6
PbL(mg/cm²): >>5.0 ± 1.00
PbK: 8.8 ± 4.0
Combined: 8.8 ± 2.0
RES: POS
Ssec: 1.1 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 108.0



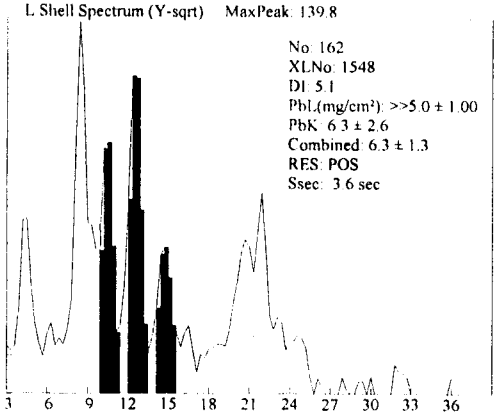
No: 159
XLNo: 1545
DI: 8.7
PbL(mg/cm²): 4.60 ± 1.50
PbK: 3.8 ± 3.0
Combined: 3.8 ± 1.5
RES: POS
Ssec: 1.2 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 115.8



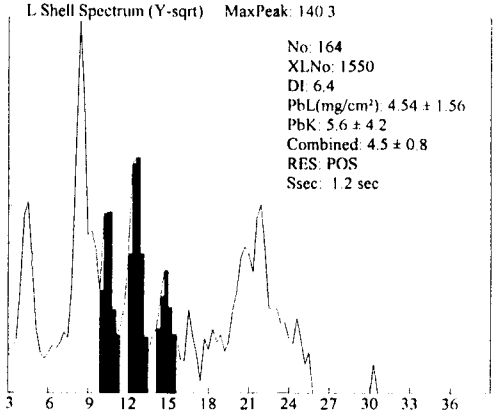
No: 161
XLNo: 1547
DI: 7.2
PbL(mg/cm²): >>5.0 ± 1.00
PbK: 3.5 ± 4.1
Combined: 3.5 ± 2.0
RES: POS
Ssec: 1.2 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 139.8



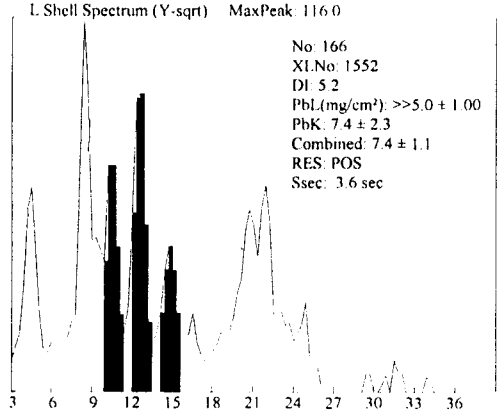
No: 162
XLNo: 1548
DI: 5.1
PbL(mg/cm²): >>5.0 ± 1.00
PbK: 6.3 ± 2.6
Combined: 6.3 ± 1.3
RES: POS
Ssec: 3.6 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 140.3



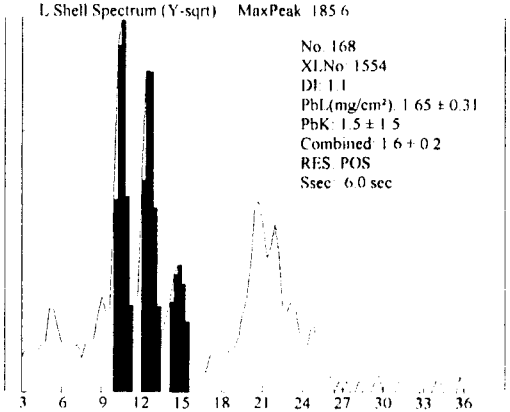
No: 164
XLNo: 1550
DI: 6.4
PbL(mg/cm²): 4.54 ± 1.56
PbK: 5.6 ± 4.2
Combined: 4.5 ± 0.8
RES: POS
Ssec: 1.2 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 116.0



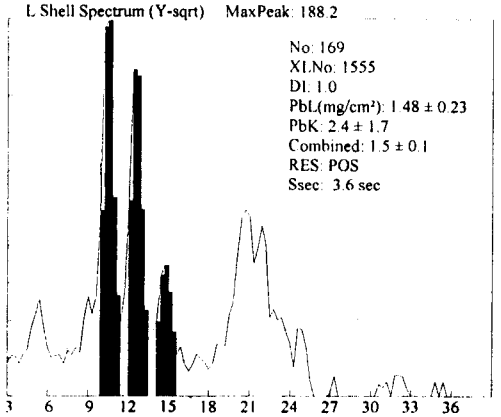
No: 166
XLNo: 1552
DI: 5.2
PbL(mg/cm²): >>5.0 ± 1.00
PbK: 7.4 ± 2.3
Combined: 7.4 ± 1.1
RES: POS
Ssec: 3.6 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 185.6



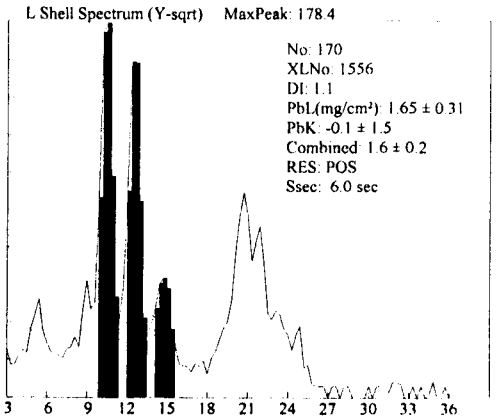
No: 168
XLNo: 1554
DI: 1.1
PbL(mg/cm²): 1.65 ± 0.31
PbK: 1.5 ± 1.5
Combined: 1.6 ± 0.2
RES: POS
Ssec: 6.0 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 188.2



No: 169
XLNo: 1555
DI: 1.0
PbL(mg/cm²): 1.48 ± 0.23
PbK: 2.4 ± 1.7
Combined: 1.5 ± 0.1
RES: POS
Ssec: 3.6 sec

L Shell Spectrum (Y-sqrt) MaxPeak: 178.4

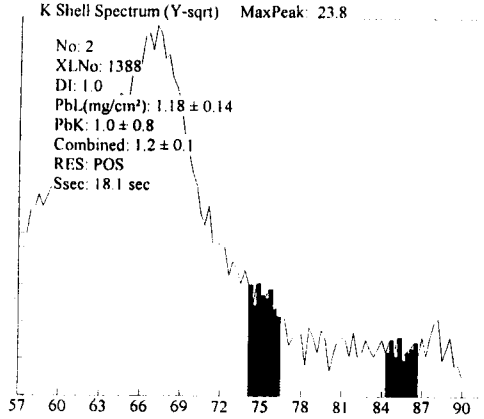


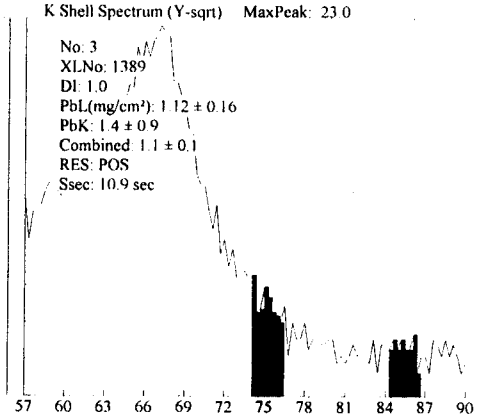
No: 170
XLNo: 1556
DI: 1.1
PbL(mg/cm²): 1.65 ± 0.31
PbK: -0.1 ± 1.5
Combined: 1.6 ± 0.2
RES: POS
Ssec: 6.0 sec

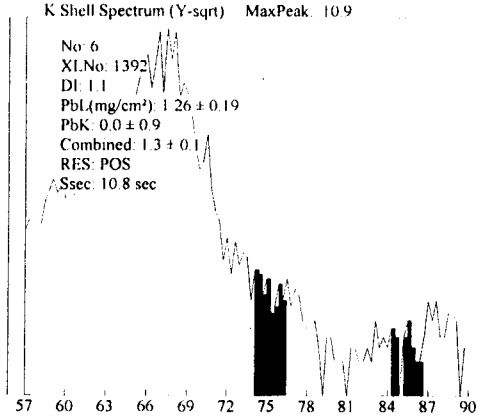
4/46B

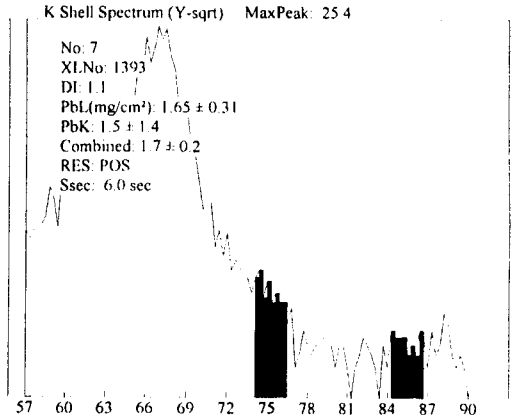
Site: Ranges (NEG<INC<POS): Device PCS

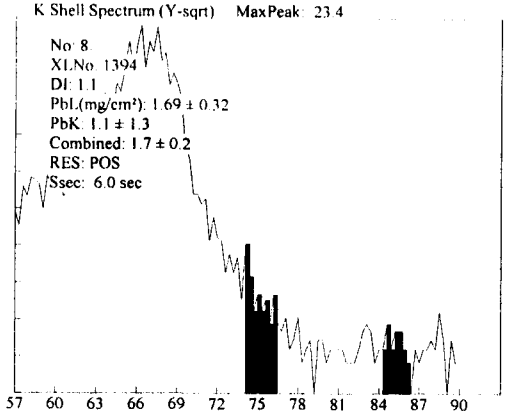
Date: 3/31/100 Paint Page 1

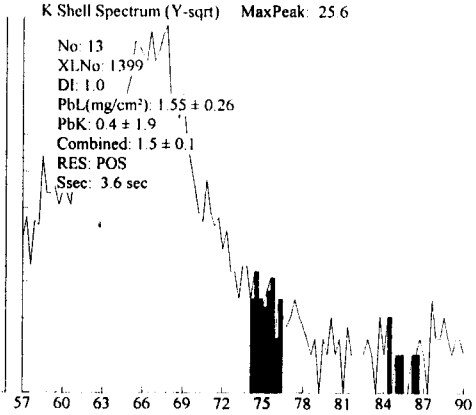


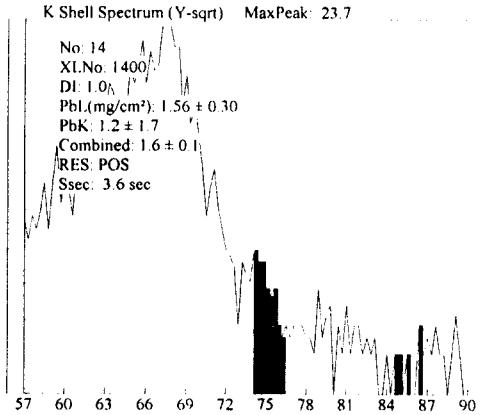


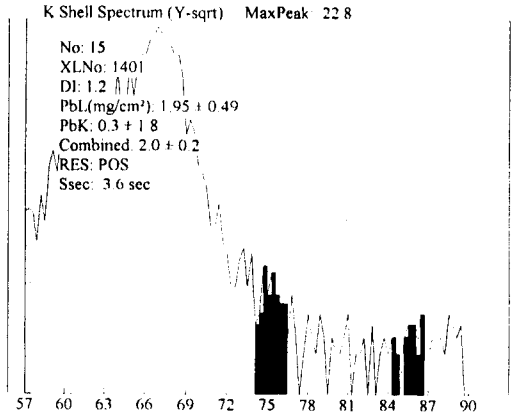


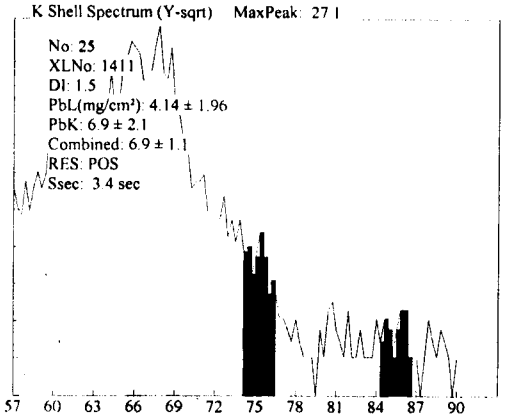


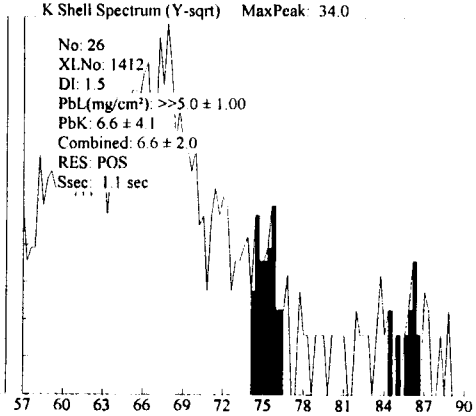


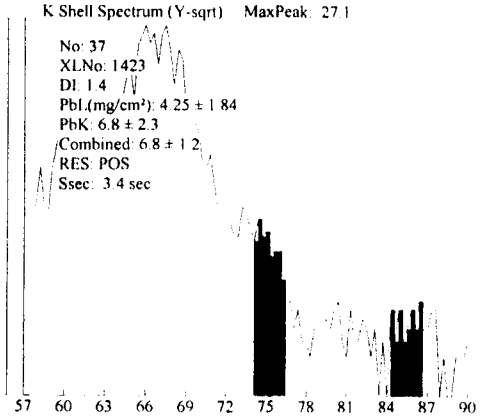


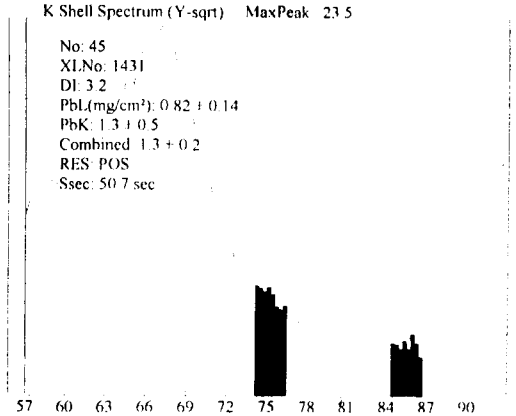








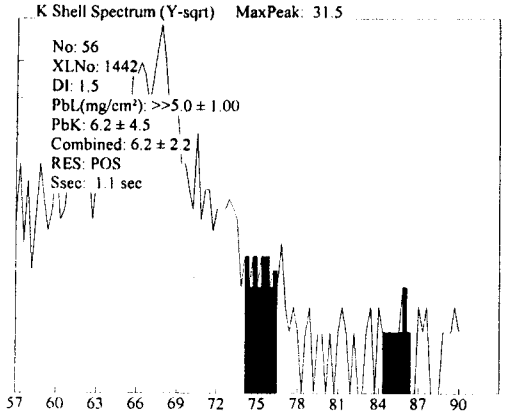


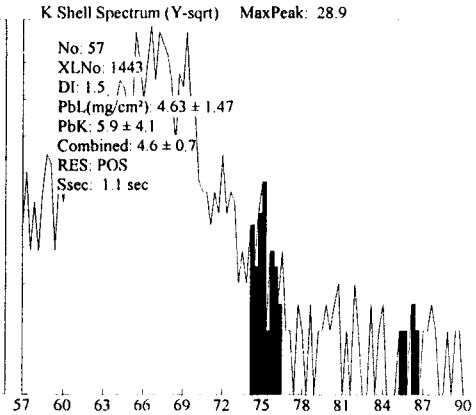


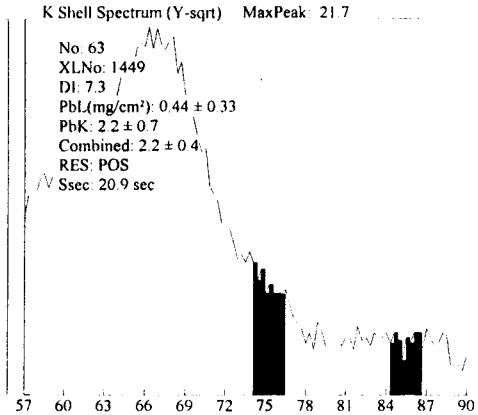
446R

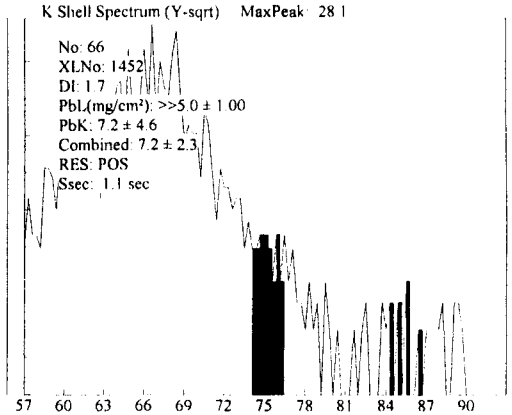
Site: Ranges (NEG<INC<POS): Device PCS

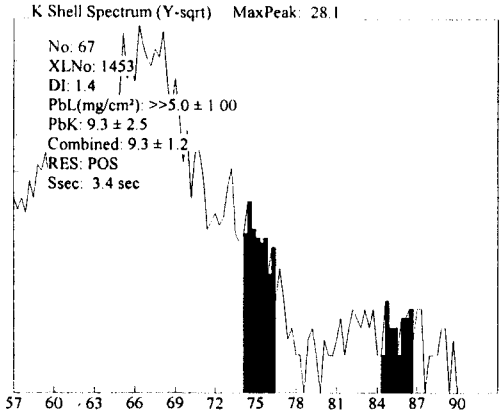
Date: 3/31/100 Paint Page 2

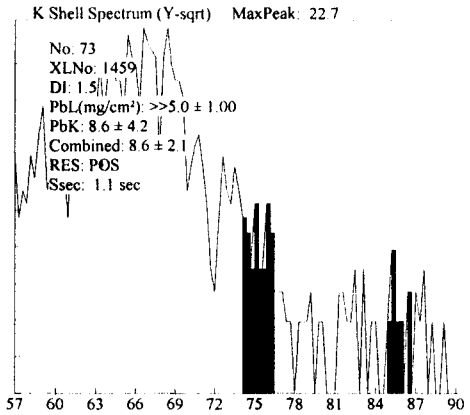


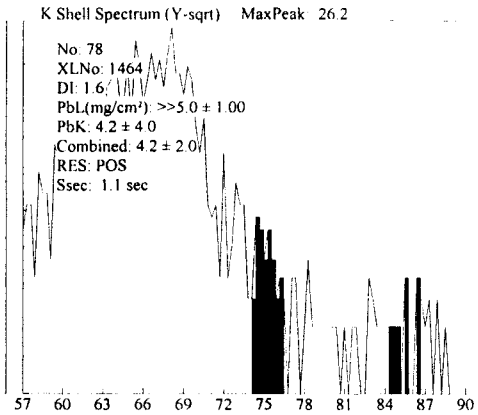


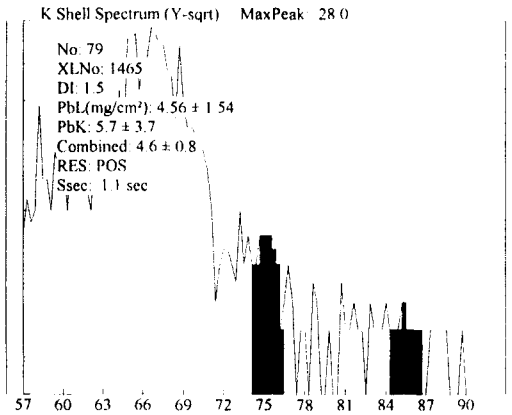


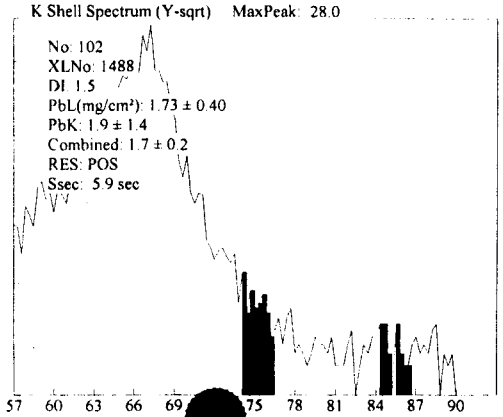


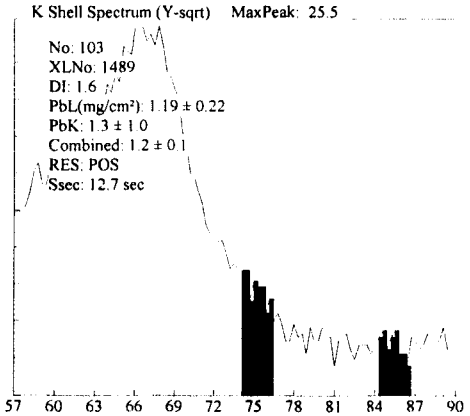


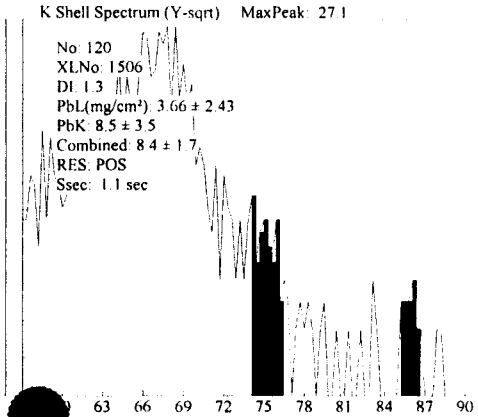


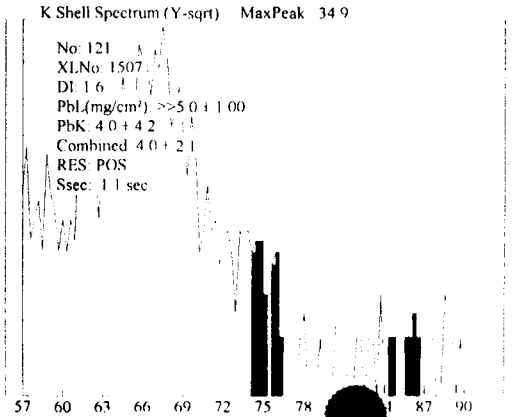








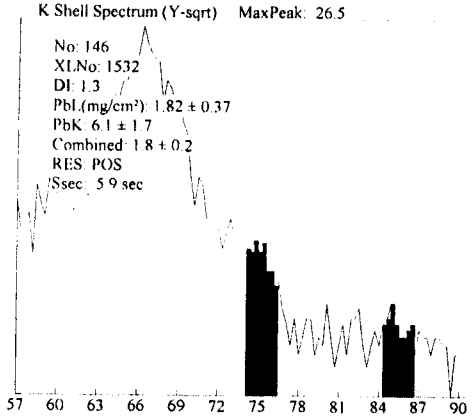


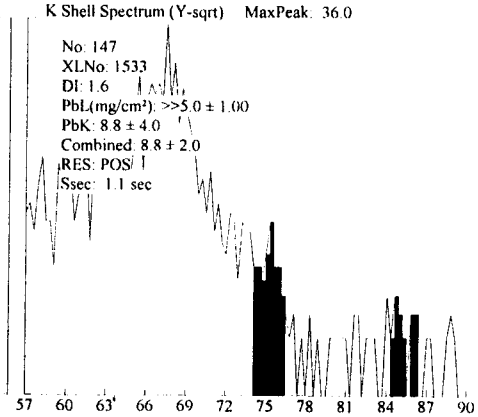


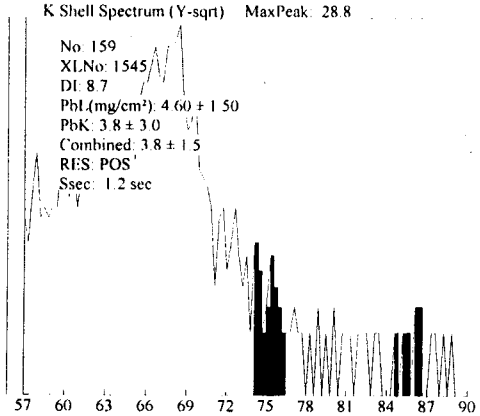
446B

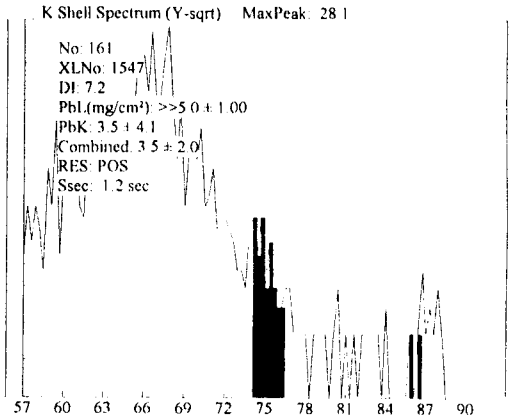
Site: Ranges (NEG<INC<POS): Device PCS

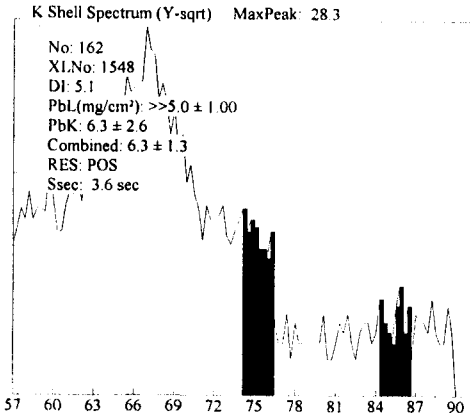
Date: 3/31/100 Paint Page 3

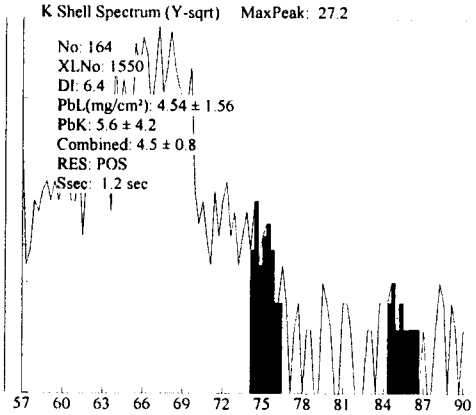


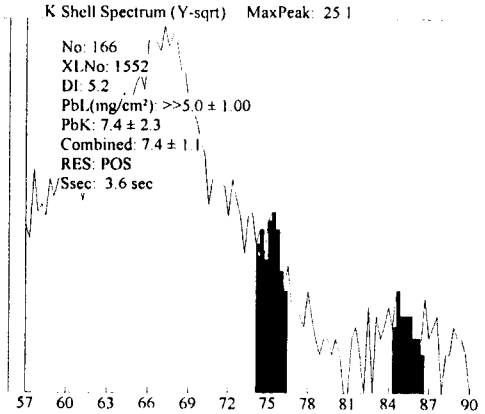


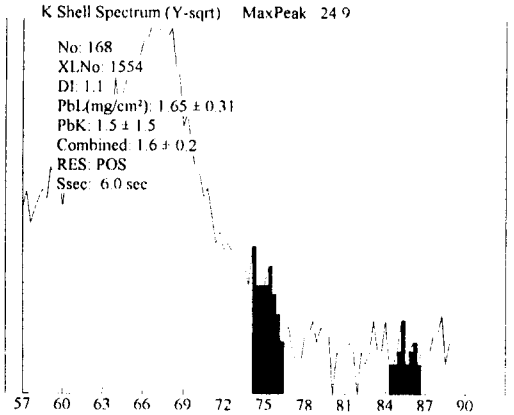


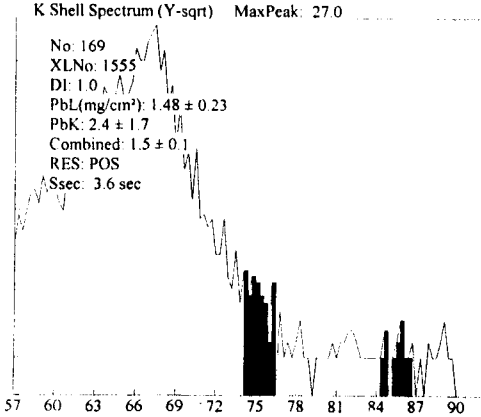


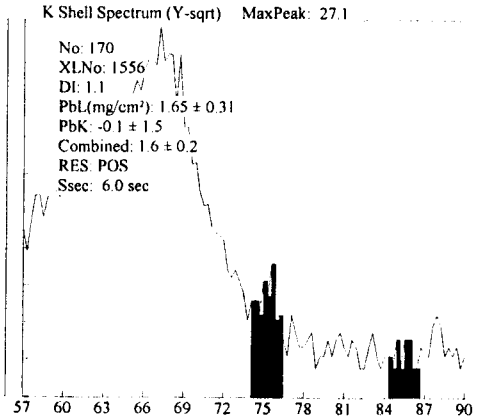












BUILDING 447

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 447

A lead-based paint inspection and risk assessment was conducted at Building 447, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

This building was occupied with tenants in both of the housing units. This building has fair maintenance performed throughout the building. This building is separated into two apartments, namely 447A and 447B; however, this report will represent both units as one building.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 276 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Twenty-one (21) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. No paint chip samples were collected to confirm the lead concentration of any paint. The results of the XRF are summarized by building component in the following pages.

The presence of lead-based paint was found in Building 447. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

Unit 447A

1. Den/Family Room Ceramic Floor Tiles
2. Den/Family Room Ceramic Baseboard
3. Living Room Ceramic Floor Tiles
4. Kitchen Ceramic Wall Tiles
5. Hallway Ceramic Floor Tiles
6. Room No. 1 Ceramic Floor Tiles
7. Bathroom Ceramic Wall Tiles
8. Bathroom Ceramic Floor Tiles
9. Bathroom Tub
10. Room No. 2 Ceramic Floor Tiles
11. Laundry Room Entrance Wall
12. Laundry Room Ceramic Floor Tiles
13. Exterior Walls

Unit 447B

1. Stairway Walls
2. Stairway Second Floor Foyer Ceramic Floor Tiles
3. Kitchen Ceramic Wall Tiles
4. Laundry Bathroom Ceramic Floor Tiles
5. Bathroom Ceramic Wall Tiles
6. Bathroom Ceramic Floor Tiles
7. Room No. 1 Ceramic Floor Tiles
8. Room No. 2 Ceramic Floor Tiles
9. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. There was no deteriorated paint within the units; thus, no dust wipe samples were conducted on the interior of the housing units. To evaluate the potential dust that may enter the housing unit, six (6) wipe samples were collected from the housing units. These samples were entrance wipes. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. None of the wipe samples were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. The soil sample was reported to contain an elevated lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Deteriorated exterior walls
3. Lead-in-the-soil surrounding the housing unit

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in good condition. The paint deterioration is limited to the exterior paint on the walls and exterior items. There are many building components, which contain lead, such as the wall and floor tiles. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust on the building's exterior.
3. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
4. The soil lead level is above 400 mg/kg for the surrounding bare soils in the roof dripline areas. It is recommend that immediate interim control measures be conducted to cover the bare soil, namely covering the bare soil with grass or other protective substances.
5. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
6. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
7. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished.
8. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
9. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
10. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

BUILDING DATA

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

447A

Client Name: Baker Environmental	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN 01	Date: March 29, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-527	Calibration				1	447A	pos.
PB-528	Calibration				1	447A	pos.
PB-529	Calibration				1	447A	pos.
PB-531	Calibration				1	447A	pos.
PB-532	Calibration				1	447A	pos.
PB-533	Calibration				1	447A	pos.
PB-556	Den family CT	white/gray	A	ceramic	1	447A	pos.
PB-557	Den family entrance baseboard	gray	A	ceramic	1	447A	pos.
PB-558	Den family baseboard	white/gray	A	ceramic	1	447A	pos.
PB-559	Living room ceramic tile	white/gray	A	ceramic	1	447A	pos.
PB-568	Kitchen (8" x 6") ceramic wall tile	gray	C	ceramic	1	447A	pos.
PB-590	Hallway ceramic floor tile	white/gray		ceramic	1	447A	pos.
PB-596	Room #1 ceramic wall tile	white/gray		ceramic	1	447A	pos.
PB-616	Bathroom (6" x 6") ceramic wall tile	peach	A	ceramic	1	447A	pos.
PB-617	Bathroom (6" x 6") ceramic wall tile	peach	C	ceramic	1	447A	pos.
PB-618	Bathroom (8" x 8") ceramic wall tile	dark peach		ceramic	1	447A	pos.
PB-619	Bathroom tub	white		metal	1	447A	pos.
PB-641	Room #2 (floor ceramic tile)	white/gray		ceramic	1	447A	pos.
PB-648	Laundry room entrance wall	white	B	concrete	1	447A	pos.
PB-655	Laundry room 12 x 12 floor ceramic tile	white		concrete	1	447A	pos.
PB-662	Laundry room 12 x 12 floor ceramic tile	white		concrete	1	447A	pos.
PB-667	Exterior wall trim	blue	A	concrete	1	447A	pos.

BAKER EN. ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

447A

Client Name: Baker Environmental Company	Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities	
Sampling Method: NITON XRF Serie 700	Job: EAC-08	Date: March 29, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-668	Exterior wall	white	Center	concrete	1	447A	pos.
PB-669	Exterior wall	white	Left B	concrete	1	447A	pos.
PB-670	Exterior wall trim	blue	B	concrete	1	447A	pos.
PB-675	Exterior wall	white	D	concrete	1	447A	pos.
PB-676	Exterior wall	off white	D	concrete	1	447A	pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.
							pos.

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
5.31	Calibration				1	447	P	1.10
5.32	" "				1	" "	P	1:20
533	" "				1	" "	P	1.10
534	Entrace step	Blue	A	concrete	1	" "	n	
535	Entrance side step (left)	White	A	" "	1	" "	n	
536	Entrance door	Light Brown	A	wood	1	" "	n	
537	" " side frame jam	" "	A	" "	1	" "	n	
538	" " Head frame jam	" "	A	" "	1	" "	n	
539	Entrance side step right	white	A	concrete	1	" "	n	
540	decorative (entrance) metal hall	blue	A	metal	1	" "	n	
541	Entrance ~~door~~ Inside door	dark brown	A	metal	1	" "	n	
542	" " case	"	A	"	1	" "	n	
543	Entrace inside door mal	"	A	"	1	" "	n	
544	Living room wall	white	A	conc	1	" "	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~	LEVEL	BLDG.	POS. / NEG.	
S45	living room wall	white	B	conc	1	447B	neg	
S46	"	white	C	conc	1	"	neg	
S47	"	white	D	conc	1	"	neg	
S48	Den - Family wall	white	A	conc	1	"	neg	
S49	"	"	B	"	1	"	neg	
S50	"	"	C	"	1	"	neg	
S51	"	"	D	"	"	"	neg	
S52	Den Family casing	dark brown	B	metal	"	"	neg	
S53	Den Family rail	"	B	metal	"	"	neg	
S54	Den Family casing 1	"	C	metal	"	"	neg	
S55	Den Family rail 3	"	C	metal	"	"	neg	
S56	Den - Family ceramic tile	white/ gray		conc	"	"	pos	4.6
S57	Den - Family entrance "baseboard"	gray	A	concr	1	"	pos	1.3 4'x2"
S58	Den - Family ceramic baseboard	gray/ white	A	conc	"	"	pos	3.4

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
559	living room ceramic tile	white/grey		Conc	1	447B	pos	3.4
560	living room baseboard	white	A	Conc	1	"	neg	
561	living room window casing 1	dark brown	B	metal	1	"	neg	
562	living room window rail	dark brown	"	"	"	"	neg	
563	living room chair rail	white	A	wood	"	"	neg	
564	kitchen wall	white	A	conc.	"	"	neg	
565	kitchen wall	white	B	"	"	"	neg	
566	kitchen wall	white	C	"	"	"	neg	
567	"	"	D	"	"	"	neg	
568	kitchen 8"x8" wall ceramic tile	gray	C	"	"	"	pos	1.1
569	kitchen 12x12 floor ceramic tile	white		conc	"	"	neg	
570	kitchen - closet door	wood	D	wood	"	"	neg	
571	kitchen closet door jamb	white	D	wood	"	"	neg	
572							Null	Difficult Area

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
573	kitchen closet head jamb	white	A	wood	1	447B	neg
574	kitchen closet wall A	white	A	conc.	1	447B	neg
575	kitchen closet wall B	"	B	"	1	"	neg.
576	" wall C	"	C	"	"	"	neg.
577	wall D	"	D	"	"	"	neg
578	kitchen window casing 1	dark brown	B	metal	"	"	neg
579	kitchen window riser 1	"	B	"	"	"	neg
580	kitchen door int casing	"	A	metal	"	"	neg
581	kitchen door int rail	"	A	"	"	"	neg.
582	kitchen door int jamb	"	A	"	"	"	neg
583	kitchen door ext	wood	A	wood	"	"	neg
584	kitchen ext door jamb	white	A	wood	"	"	neg
585	kitchen ext door head jamb	"	A	wood	"	"	neg
586	hallway wall	white	A	conc.	"	"	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
587	hallway wall	white	B	conc	1	447B	neg	
588	hallway wall	white	C	"	"	"	neg	
589	hallway wall	white	D	"	"	"	neg	
590	hallway ceramic floor tile	white. gray		conc.	"	"	pos	3.4
591	hallway concrete baseboard	white	D	conc	"	"	neg	
592	room 1 wall	white	A	conc	"	"	neg	
593	room 1 wall	"	B	"	"	"	neg	
594	"	"	C	"	"	"	neg	
595	"	"	D	"	"	"	neg	
596	room 1 floor ceramic tile	gray/ white		"	"	"	pos.	5.0
597	room 1 window casing 2	dark brown	C	metal	"	"	neg	
598	room 1 window rail 2	"	C	metal	"	"	neg.	
599	room 1 baseboard	white	B	conc	"	"	neg	
600	room 1 chair rail	white	D	wood	"	"	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
601	room 1 closet door	wood	A	wood	1	447B	neg
602	room 1 closet jamb	wood	A	wood	1	"	neg
603	room 1 closet head jamb	wood	A	wood	1	"	neg
604	room 1 closet wall	white ~~[illegible]~~	A	conc.	"	"	neg
605	room 1 closet wall	white	B	"	"	"	neg.
606	room 1 closet wall	"	C	"	"	"	neg.
607	room 1 closet wall	"	D	"	"	"	neg.
608	room 1 closet floor	gray		conc	"	"	neg.
609	room 1 door	wood	A	wood	"	"	neg
610	room 1 door jamb	white ~~wood~~	A	wood	"	"	neg
611	room 1 door head	white	A	wood	"	"	neg.
612	bathroom wall	white	A	conc	"	"	neg
613	bathroom wall	white	B	conc	"	"	neg
614	bathroom wall	white	C	"	"	"	neg

447 A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
615	bathroom wall	white	D	conc	1	447B	neg.	
616	bathroom 6"x6" ceramic tile wall	peach	A	conc.	"	"	pos.	1.8
617	bathroom 6"x6" ceramic tile wall	peach	C	conc	"	"	pos	1.7
618	bathroom 8"x8" floor ceramic tile	dark peach		conc	"	"	pos.	2.5
619	bathroom tub	white		metal	"	"	pos.	2.2
620	bathroom ceramic toilet tank	white		conc	"	"	neg	
621	bathroom ceramic toilet base	white		conc.	"	"	neg.	
622	bathroom ceramic sink	white		conc.	"	"	neg.	
623	bathroom window casing	dark brown	D	metal	"	"	neg	
624	bathroom window rail	"	D	metal	"	"	neg	
625	bathroom door	wood	B	wood	"	"	neg	
626	bathroom jamb	wood	B	wood	"	"	neg	
627	bathroom door head	wood	B	wood	"	"	neg	
628	room 2 wall	white ~~conc~~	A	conc.	"	"	neg	

1/2 to floor

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
629	room 2 wall	white	B	conc	1	447B	neg
630	room 2 wall	white	C	conc	1	"	neg
631	room 2 wall	"	D	"	"	"	neg
632	room 2 chair rail	"	B	wood	"	"	neg.
633	room 2 baseboard	"	A	conc	"	"	neg
634	room 2 closet door	wood	C	wood	"	"	neg
635	room 2 closet door jamb	"	"	"	"	"	neg
636	room 2 closet door head	"	"	"	"	"	neg.
637	room 2 closet wall	white	A	"	"	"	neg.
638	"	"	B	"	"	"	neg.
639	"	"	C	"	"	"	neg.
640	"	"	D	"	"	"	neg.
641	room 2 floor ceramic tile	gray/white		conc.	"	"	pos 2.5
642	room 2 door.	wood	C	wood	"	"	neg

447 A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
643	room 2 door jamb	white	"	wood	✓	✓	neg	
644	room 2 door head	white	"	wood	"	✓	neg.	
645	room 2 window case 2	dark brown	A	metal	"	"	neg	
646	room 2 window rail 2	"	"	"	"	"	neg.	
647	laundry room entrance wall	white	A	conc	"	"	neg.	
648	laundry room entrance wall	"	B	conc	"	"	pos.	1.0.
649	laundry room entrance wall	"	B	conc	"	"	neg.	
650	"	"	C	"	"	"	neg.	
651	"	"	D	"	"	"	neg	
652	laundry room ent door	wood	D	wood	"	"	neg.	
653	laundry room ent jamb	wood	"	wood	"	"	neg.	
654	laundry room ent head	wood	"	wood	"	"	neg	
655	laundry room 12"x12" floor ceramic tile	white		conc	"	"	pos	3.6
656	laundry room	white	A	conc	"	"	neg.	

447A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
657	laundry room wall	white	B	conc	1	447B	neg.	
658	"	"	C	"	1	"	neg.	
659	"	"	D	"	1	"	neg.	
660	laundry room shelve 2	white	C	wood	"	"	neg	
661	laundry room shelve jamb	"	"	wood	"	"	neg	
662	laundry room 12"x12" floor ceramic tile	white		conc	1	"	pos.	3.0
663	porch ~~ceramic~~ terrazzo flr	red		conc	"	"	neg.	
664	porch tubular frame posts 3	white	B	metal	"	"	neg.	
665	porch tubular frame post 5	"	"	"	"	"	neg	
666	Exterior wall 1	white	A	conc	"	"	neg	
667	Exterior wall trim	blue	A	conc	"	"	pos	1.1
668	Ext wall	white	center B	conc	"	"	pos	5.9
669	"	white	left B	conc	"	"	pos.	4.5
670	" trim	blue	B	"	"	"	pos.	1.9

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447 A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
671	Ext wall	white	C	Conc	"	"	neg	
672	Ext wall	off white	C	"	"	"	neg	
673	Ext wall base	blue	C	"	"	"	neg	
674	Ext wall	white/yellow	C	"	"	"	neg	
675	Ext wall	white	D	"	"	"	pos	3.0
676	"	off white	D	"	"	"	pos	4.7
677	Ext wall trim	blue	D	"	"	"	neg	
678	Ext wall entrance	white	A	"	"	"	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

497 A + B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
693	calibration ver						Pos	1.4
694	calib ver.						pos	1.2
695	calib ver.						pos.	1.4
696	calib ver.						pos.	1.3

visit 1.0

note calibrated date

BAKER ENVIRONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

447B

Client Name: Baker Environmental	Project Name: U.S. Navy Stop 7 1/2 Facilities	
Sampling Method: NITON XRF Serie 700	Job: USN 01	Date: March 28, 2000

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUBSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-402	Calibration Test				2	447B	pos.
PB-403	Calibration Test				2	447B	pos.
PB-404	Calibration Test				2	447B	pos.
PB-411	Stairway wall	white	C	Concrete	2	447B	pos.
PB-412	Stairway wall right area	white	D	Concrete	2	447B	pos.
PB-413	Stairway wall center area	white	D	Concrete	2	447B	pos.
PB-415	Entrance 2nd floor FT 12" x 12"	white	Floor	Concrete	2	447B	pos.
PB-429	Living room Ceramic Tile 12"x12"	white/gray	Floor	Concrete	2	447B	pos.
PB-436	Kitchen wall Ceramic Tile	gray	B	Concrete	2	447B	pos.
PB-455	Laundry/bathroom CFT 12"x12"	white/gray	Floor	Concrete	2	447B	pos.
PB-476	Bathroom # 2 (wall) CT lower part	Beige	A	Concrete	2	447B	pos.
PB-477	Bathroom # 2 (wall) CT lower part	Beige	B	Concrete	2	447B	pos.
PB-478	Bathroom # 2 (wall) CT lower part	Beige	C	Concrete	2	447B	pos.
PB-479	Bathroom # 2 (wall) CT lower part	Beige	D	Concrete	2	447B	pos.
PB-480	Bathroom # 2 CFT 8" x 8"	Beige	Floor	Concrete	2	447B	pos.
PB-493	Room # 1CFT 12" x 12"	white/gray	Floor	Concrete	2	447B	pos.
PB-512	Room # 2 CFT 12" x 12"	white/gray	Floor	Concrete	2	447B	pos.
PB-679	Exterior Wall 2nd. Floor	white	A	Concrete	2	447B	pos.
PB-680	Exterior Wall 2nd. Floor	white	B	Concrete	2	447B	pos.
PB-682	Exterior Wall 2nd. Floor	white	C	Concrete	2	447B	pos.
PB-683	Exterior Wall 2nd. Floor	white	B	Concrete	2	447B	pos.
PB-693	Calibration Test				2	447B	pos.

BAKER ENV...ONMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

447B

Client Name: Baker Environmental Company	**Project Name: U.S. Navy Stop 7$^{1/2}$ Facilities**	
Sampling Method: NITON XRF Serie 700	**Job: USN-01**	**Date: March 29, 2000**

SAMPLE ID	DESCRIPTION	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.
PB-694	Calibration Test				2	447B	pos.
PB-695	Calibration Test				2	447B	pos.
PB-696	Calibration Test				2	447B	pos.

447 B

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

	SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
WIST(1.0)	402	cd verifc.					447 tp	pos	1.0
WIST(1.0)	403	cd verif					447	pos.	1.2
	404	cd verif					447	pos	1.1
	405	Entrance door	Brown	D	wood	1	447	neg	
	406	" head jam "	Brown	" "	" "	1	" "	neg	
	407	side door frame gum	" "	" "	" "	1	" "	neg	
	408	entrance step	blue	D	Concrete	1	" "	neg	
	409	Stairway wall	white	A	" "	1	" "	neg	
	410	" "	" "	B	" "	1	" "	neg	
	411	" "	" "	C	" "	1	" "	neg	
	412	" " right side	" "	D	" "	1	" "	pos	3.3
	413	" " center	" "	D	" "	1	" "	pos	2.10
	414	" " left side	" "	D	" "	1	" "	pos	2.10
	415	FT 12x12 entrance 2nd floor	white	floor	ceramic	2	" "	pos	3.4

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
416	door Head Jam	Brown		wood	2	447	neg
417	door side Jam frame	" "		" "	2	" "	neg
418	door	" "		" "	2	" "	neg
419	living room	white	A	conc.	2	447	neg
420	living room	white	B	conc	2	"	neg
421	"	"	C	"	"	"	neg
422	"	"	D	"	"	"	neg.
423	living room window case 1		B	"	"	"	neg
424	living room window ~~case~~ rail 3	white	C	metal	"	"	neg
425	living room window case 3	white	C	metal	"	"	neg
426	living room door head jamb 2	white	C	metal	"	"	neg
427	living room door jamb 2	white	C	metal	"	"	neg
428	living room door 3	white	C	metal	"	"	neg
429	living room ceramic tile 12'x12'	white/ gray		conc			pos

3.3

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
430	living room baseboard	white	C	conc.	2	447	neg
431	living room chair rail	white	A	wood	4	4	neg
432	kitchen wall	white	A	conc.	4	4	neg
433	kitchen wall	white	B	conc	2	2	neg
434	kitchen wall	white	C	conc	2	2	neg
435	kitchen wall	white	D	conc	4	4	neg
436	kitchen 9"x6" wall ceramic	gray	B	conc	2	2	pos 1.5
437	kitchen 12"x10" ceramic tile	white		conc	2	2	neg
438	kitchen head jamb	white	A	wood	4	4	neg
439	kitchen jamb	white		wood	C	2	neg
440	kitchen door	wood		wood	2	2	neg
441	porch entrance wall	white	A	conc	2	2	neg
442	porch entrance wall	white	B	conc	2	2	neg
443	porch entrance wall	white	C	4	2	2	neg

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

Bldg 447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
444	~~toilet~~ porch entrance	pink	D	wood	2	447	neg	
445	porch floor entrance ceric tile	white		conc	2	"	neg	
446	laundry/ door bathroom jab	wood		wood	"	"	neg	
447	laundry/ bathroom - need jamb	wood		wood	"	"	neg	
448	laundry/bathroom door	wood		wood	"	"	neg	
449	laundry/bathroom wall	white	A	conc	"	"	neg	
450	laundry/bathroom wall	pink	B	wood	"	"	neg	
451	laundry/bathroom wall	pink	C	conc	"	"	neg	
452	laundry/bathroom wall	white	D	conc	"	"	neg	3/4 to top
453	laundry/bathroom wall tile	gray	A	conc	"	"	neg	3/4 to floor
454	laundry/bathroom wall tile	beige	A	conc	"	"	neg	3/4 to floor
455	laundry/bathroom floor ceric tile	12"x12" gray/white		conc	—	"	pos	3.4
456	laundry bathroom urinal ceramic	white		conc	"	"	neg	
457	laundry/bathroom toilet tank	white		conc	"	"	neg	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

Bldg 447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	~~COND.~~	LEVEL	BLDG.	POS. / NEG.
458	laundry / between shower base	white		plastic	2	447	neg
459	laundry / between sink ceiling	white		conc	"	"	neg
460	laundry / between sink base	"		conc	"	"	neg
461	laundry / between window rail	dark brown	A	metal	2	"	neg
462	laundry / between window casing	"	A	"	"	"	neg
463	laundry / between water pipe	pink	B	plastic	"	"	neg
464	Den wall	white	A	concrete	2	" "	neg
465			B				neg
466			C				neg
467	window frame case	dark Brown	B	metal	2	" "	neg
468	" " rial	" "	B	" "	" "	" "	neg
469	staircase roof overcircuited	white		concrete		" "	neg
470	ceiling (same)	" "		" "	" "	" "	neg
471	wall den	white	D	" "	" "	" "	neg

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
472	wall bathroom #2 top part	Badge	A	conir	2	443	n	
473			B		2	" "	n	
474			C		" "	" "	n	
475			D		2	" "	n	
476	Ceramic tile lower part	" "	A	Ceramic	2	" "	P	2.10
477		" "	B		2	" "	P	1.8
478		" "	C		2	" "	P	2.9
479		" "	D		2	" "	P	2.10
480	FT 8x8	" "	floor	Ceramic	" "	" "	P	1.50
481	window frame case	Dark Brown	D	metal	2	" "	n	
482	" " rail		D	" "	2	" "	n	
483	door Bathroom	Brown		wood	2	" "	n	
484	Head Jam door Bath	~~" "~~ White		" "	2	" "	n	
485	Side Jam door Bath	white ~~" "~~		" "	2	" "	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
486	toilet top	white		Ceramic	2	447	n
487	toilet base	white		" "	2	" "	n
488	Sink	cream		metal	2	" "	n
489	Room # 1 wall	white	A	concrete	2	" "	n
490	" "		B	" "	2	" "	n
491	" "		C	" "	2	" "	n
492	" "		D	" "	2	" "	n
493	FT 12X12	white/ gray	floor	ceramic	2	" "	p
494	closet room #1 wall	white	A	concrete	2	" "	n
495	" "		B	" "	2	" "	n
496	" "		C	" "	2	" "	n
497	" "		D	" "	2	" "	n
498	null				2	" "	T
499	Room #1 floor closet	gray		" "	2	" "	n

6.6

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

4478

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
500	door closet	Brown		wood	2	447	n
501	side jame	white		" "	2	" "	n
502	Head Jame	" "		" "	2	" "	n
503	door room #1	Brown		" "	2	" "	n
504	Side Jam	White		" "	2	" "	n
505	Head Jam	" "		" "	2	" "	n
506	window room #1 case	dark Brown	D	metal	2	" "	n
507	" " rial		D	" "	2	" "	n
508	Room # 2 wall	white	A	concrete	2	" "	n
509	" "	" "	B	" "	2	" "	n
510	" "	" "	C	" "	2	" "	n
511	" "	" "	D	" "	2	" "	n
512	FT 12X12	white/gray	floor	ceramic	2	" "	p
513	Closet wall room #2	white	A	concrete	2	" "	n

4.6

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

447B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
514	Closet wall room #2	white	~~A~~ B	concrete	2	447	n
515	" "		C	" "	2	" "	n
516	" "		D	" "	2	" "	n
517	Closet floor	gray	floor	" "	2	" "	n
518	closet door	Brown		wood	2	" "	n
519	Closet door frame Sidejam	white		" "	2	" "	n
520	" " Head jam	" "		" "	2	" "	n
521	door room # 2	Brown		wood	2	" "	n
522	" " Sidejam	" "		" "	2	" "	n
523	Head jam	" "		" "	2	" "	n
524	Window frame Case	dark Brown	A	metal	2	" "	n
✓ 525	rail	" "	A		2	" "	
✓ 526							
✓ 527							

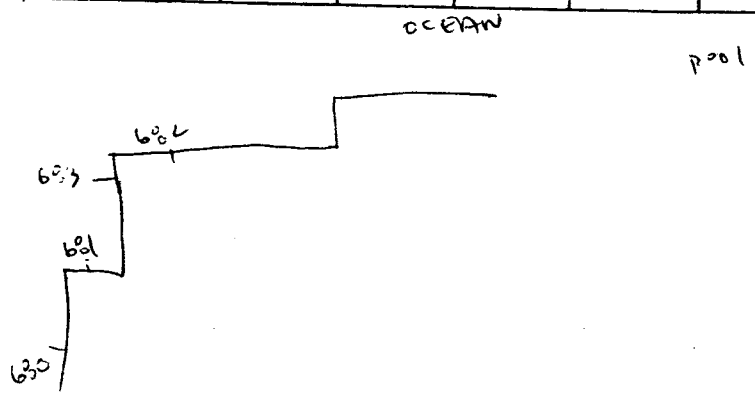
S

497 A Top

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
679	Exterior wall 2nd Fl.	white	A	Exc	2	497A	pos	3.6
680	Ext wall	"	B	"	"	"	pos	9.3
681*	"	"	C	"	"	"	neg	
682*	Ext wall	"	C	"	"	"	pos	3.8
683	Ext wall	white	B	"	"	"	pos	9.8
684	" trim	blue	B	"	"	"	neg.	
685	" trim	blue	B	"	"	"	neg	
686	" trim	blue	C	"	"	"	neg	
687	Ext porch casing door	dark brown	B	metal	"	"	neg	
688	" rail	"	"	"	"	"	neg	
689*	Porch stairway box	wood	B	wood	"	"	neg	
690	Porch stairway post	wood	B	"	"	"	neg	
691	Porch stairway #4 tubular post & base	white	B	metal	"	"	neg	
692	porch tubular post & base #3	white	B	metal	"	"	neg.	



ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

497 A+B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1.0 693	calibration ver						Pos	1.4
694	calib ver.						pos	1.2
695	calib ver.						pos.	1.4
696	calib ver.						pos.	1.3

note calibrated date

SAMPLING DATA

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy Atop 7½ 447A + B
Site Location:
Samplers Name: Miguel Olivera
Company:

Chain of Custody Record

SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb wipes	Remarks
81784 [redacted]	[redacted] Foyer	4/9/00			/		N/A	1	/	
81785 [redacted]	[redacted]				/			1	/	
81786 [redacted]	[redacted]				/			1	/	
81787 [redacted]	[redacted]				/			1	/	
81788 ED. 447A.14	Ext Front Entrance Side A				/			1	/	26.1 ug/sq.
81789 ED. 447A.15	Ext Back Entrance Side B				/			1	/	27.3
81790 ED. 447B.16	Int. Front 1st floor Stairway Foyer Side B				/			1	/	29.0
81791 ED. 447B.17	Int. 2nd Fl Stairway Foyer Side A				/			1	/	24.4
81792 ED. 447B.18	Ext. 2nd Fl. Wood Deck Entrance Side B				/			1	/	20.7

Turnaround Time: Normal: [ ] Rush: [/]

Comment:

Relinquished By:	Miguel A Olivera	Date/Time	10 Apr 00 1200 hrs	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Kane G. Hute	Date/Time	8/10/00 12:030m	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. R.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy - Stop 7½ Site 447 A + B
Site Location:
Samplers Name: Miguel Olivieras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb WQ*							Remarks
01 793	ED.447B.19	Ext 1st Fl. Deck Stay Entrance Side B	4/9/00			✓		N/A	1	✓							16.4 ug/sq ft
01 794	[redacted]	[redacted]				✓			1	✓							
01 795	[redacted]	[redacted]				✓			1	✓							
01 796	[redacted]	[redacted]				✓			1	✓							
01 797	[redacted]	[redacted]				✓			1	✓							
01 798	[redacted]	[redacted]				✓			1	✓							

Turnaround Time: Normal: ☐ Rush: ✓

Comments:

Relinquished By:	Miguel A Olivieras	Date/Time	10Apr00 1200	Delivered Directly to Lab: ☐	Shipped: ☐
Received By:	Kenny Dente	Date/Time	4-10-00 12:00 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address 447 Bldg.

Sample number	Location	Bare or covered	Lab result (µg/g)
S. 447.01	Building perimeter		726.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

XRF DATA

447A
Paint Page 1

Serial #XL309-U12673701LY Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	526	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/29/100	13:28:44
2	**527**	**1.24 ± 0.17**	**POS**	**0.3 ± 0.8**	**1.2 ± 0.1**	**1.1**	**13.2**	**3/29/100**	**13:30:27**
3	**528**	**1.59 ± 0.30**	**POS**	**1.2 ± 1.1**	**1.6 ± 0.2**	**1.0**	**6.0**	**3/29/100**	**13:31:19**
4	**529**	**1.20 ± 0.15**	**POS**	**0.7 ± 0.7**	**1.2 ± 0.1**	**1.0**	**15.6**	**3/29/100**	**13:32:01**
5	530	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	3/29/100	13:58:39
6	**531**	**1.10 ± 0.12**	**POS**	**1.6 ± 1.0**	**1.1 ± 0.1**	**1.0**	**6.0**	**3/29/100**	**14:00:20**
7	**532**	**1.24 ± 0.27**	**POS**	**1.4 ± 1.1**	**1.2 ± 0.1**	**1.1**	**6.0**	**3/29/100**	**14:00:55**
8	**533**	**1.13 ± 0.13**	**POS**	**0.6 ± 0.6**	**1.1 ± 0.1**	**1.0**	**20.4**	**3/29/100**	**14:01:27**
9	534	0.07 ± 0.17	NEG	-1.1 ± 1.1	0.1 ± 0.1	6.6	6.2	3/29/100	14:14:28
10	535	0.10 ± 0.31	NEG	0.2 ± 0.9	0.1 ± 0.2	4.5	11.0	3/29/100	14:14:47
11	536	0.01 ± 0.10	NEG	-0.9 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	14:15:32
12	537	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	3/29/100	14:16:08
13	538	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	14:16:32
14	539	0.20 ± 0.10	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	23.2	3/29/100	14:17:25
15	540	0.05 ± 0.25	NEG	0.0 ± 1.0	0.1 ± 0.1	3.4	8.6	3/29/100	14:19:01
16	541	0.02 ± 0.10	NEG	0.7 ± 0.6	0.0 ± 0.1	5.6	11.1	3/29/100	14:21:06
17	542	0.01 ± 0.16	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.6	6.2	3/29/100	14:21:40
18	543	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/29/100	14:22:06
19	544	0.01 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.9	6.1	3/29/100	14:23:25
20	545	0.00 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.0	6.1	3/29/100	14:23:55
21	546	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.1	8.6	3/29/100	14:24:19
22	547	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/29/100	14:24:44
23	548	0.01 ± 0.10	NEG	-0.3 ± 1.3	0.0 ± 0.1	1.7	6.2	3/29/100	14:25:28
24	549	0.00 ± 0.10	NEG	-1.9 ± 1.3	0.0 ± 0.1	1.0	6.2	3/29/100	14:25:48
25	550	0.04 ± 0.10	NEG	-0.1 ± 0.6	-0.1 ± 0.3	10.0	20.9	3/29/100	14:26:15
26	551	0.07 ± 0.10	NEG	-0.4 ± 0.6	-0.4 ± 0.3	10.0	23.4	3/29/100	14:27:16
27	552	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	6.2	3/29/100	14:28:31

447A

Paint Page 2

Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	553	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.2	3/29/100	14:28:54
29	554	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	6.2	3/29/100	14:29:42
30	555	0.02 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	5.1	13.6	3/29/100	14:30:09
31	**556**	**4.56 ± 1.54**	**POS**	**10.1 ± 4.0**	**4.6 ± 0.8**	**1.8**	**1.1**	**3/29/100**	**14:30:56**
32	**557**	**0.34 ± 0.10**	**POS**	**1.3 ± 0.4**	**1.3 ± 0.2**	**2.2**	**50.7**	**3/29/100**	**14:31:26**
33	**558**	**3.40 ± 0.96**	**POS**	**5.0 ± 2.2**	**3.4 ± 0.5**	**1.6**	**3.4**	**3/29/100**	**14:33:42**
34	**559**	**3.39 ± 0.90**	**POS**	**7.8 ± 2.2**	**3.4 ± 0.5**	**1.5**	**3.4**	**3/29/100**	**14:36:33**
35	560	0.03 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.1	11.1	3/29/100	14:37:09
36	561	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.9	6.2	3/29/100	14:39:24
37	562	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/29/100	14:41:02
38	563	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	14:42:37
39	564	0.00 ± 0.10	NEG	-0.8 ± 1.0	0.0 ± 0.1	1.5	6.2	3/29/100	14:43:22
40	565	0.00 ± 0.10	NEG	-0.8 ± 1.2	0.0 ± 0.1	1.4	6.1	3/29/100	14:43:43
41	566	0.02 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	3.7	13.5	3/29/100	14:44:04
42	567	0.01 ± 0.10	NEG	-0.3 ± 1.3	0.0 ± 0.1	3.2	6.1	3/29/100	14:44:40
43	**568**	**1.08 ± 0.32**	**POS**	**1.7 ± 0.7**	**1.1 ± 0.2**	**3.8**	**20.0**	**3/29/100**	**14:45:10**
44	569	0.10 ± 0.11	NEG	0.5 ± 0.7	0.1 ± 0.1	2.0	21.5	3/29/100	14:46:08
45	570	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	14:47:28
46	571	0.02 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	14:47:56
47	572	0.02 ± 0.10	INCOM	0.1 ± 1.1	0.0 ± 0.1	1.0	3.7	3/29/100	14:48:19
48	573	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	14:48:39
49	574	0.25 ± 0.27	NEG	-0.5 ± 1.2	0.3 ± 0.1	2.8	6.1	3/29/100	14:49:13
50	575	0.20 ± 0.23	NEG	0.0 ± 1.1	0.2 ± 0.1	3.0	8.5	3/29/100	14:50:08
51	576	0.19 ± 0.12	NEG	0.5 ± 0.7	0.2 ± 0.1	2.6	15.9	3/29/100	14:50:31
52	577	0.38 ± 0.20	NEG	0.4 ± 0.6	0.4 ± 0.1	4.2	20.7	3/29/100	14:51:21
53	578	0.00 ± 0.10	NEG	0.8 ± 0.6	0.0 ± 0.1	1.0	13.6	3/29/100	14:52:30
54	579	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	3/29/100	14:53:17
55	580	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.2	3/29/100	14:53:56

447A

Paint Page 3

Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	581	0.00 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	8.6	3/29/100	14:54:18
57	582	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.7	6.2	3/29/100	14:55:02
58	583	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.0	3/29/100	14:55:29
59	584	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.2	3/29/100	14:55:49
60	585	0.00 ± 0.10	NEG	0.2 ± 0.7	0.0 ± 0.1	1.0	8.7	3/29/100	14:56:08
61	586	0.03 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	6.6	13.5	3/29/100	14:57:17
62	587	0.03 ± 0.11	NEG	-0.6 ± 0.9	0.0 ± 0.1	4.7	11.1	3/29/100	14:57:52
63	588	0.04 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	7.9	8.6	3/29/100	14:58:23
64	589	0.03 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	5.4	6.2	3/29/100	14:58:52
65	**590**	**3.38 ± 0.94**	**POS**	**6.5 ± 2.2**	**3.4 ± 0.5**	**1.6**	**3.4**	**3/29/100**	**14:59:17**
66	591	0.21 ± 0.13	NEG	0.1 ± 0.9	0.2 ± 0.1	2.5	13.5	3/29/100	14:59:51
67	592	0.01 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	2.6	6.1	3/29/100	15:00:46
68	593	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.0	6.1	3/29/100	15:01:06
69	594	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	3.1	8.6	3/29/100	15:01:28
70	595	0.01 ± 0.10	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.7	6.2	3/29/100	15:01:54
71	**596**	**3.87 ± 2.22**	**POS**	**5.0 ± 1.8**	**5.0 ± 0.9**	**1.7**	**5.7**	**3/29/100**	**15:02:21**
72	597	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/29/100	15:02:50
73	598	0.00 ± 0.11	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	8.6	3/29/100	15:03:50
74	599	0.11 ± 0.10	NEG	-0.7 ± 0.6	-0.7 ± 0.3	10.0	20.9	3/29/100	15:05:43
75	600	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	15:06:52
76	601	0.00 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:07:31
77	602	0.01 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:07:53
78	603	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	6.1	3/29/100	15:08:14
79	604	0.06 ± 0.16	NEG	-1.3 ± 1.1	0.1 ± 0.1	5.5	8.6	3/29/100	15:08:44
80	605	0.08 ± 0.17	NEG	0.7 ± 0.6	0.1 ± 0.1	5.6	20.9	3/29/100	15:09:09
81	606	0.06 ± 0.28	NEG	0.0 ± 1.0	0.1 ± 0.1	3.6	8.6	3/29/100	15:10:18
82	607	0.07 ± 0.11	NEG	0.3 ± 0.8	0.1 ± 0.1	2.9	16.0	3/29/100	15:10:57
83	608	0.01 ± 0.16	NEG	-2.4 ± 1.3	0.0 ± 0.1	1.1	6.1	3/29/100	15:11:53

447A

Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	609	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	2.0	8.6	3/29/100	15:12:22
85	610	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:12:51
86	611	0.01 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:13:17
87	612	0.02 ± 0.10	NEG	-0.3 ± 0.6	0.0 ± 0.1	6.3	20.9	3/29/100	15:14:23
88	613	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	2.8	6.2	3/29/100	15:15:13
89	614	0.03 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	6.4	8.6	3/29/100	15:15:32
90	615	0.07 ± 0.10	NEG	-0.2 ± 0.7	-0.2 ± 0.3	9.7	18.5	3/29/100	15:15:57
91	**616**	**1.78 ± 0.41**	**POS**	**0.9 ± 1.5**	**1.8 ± 0.2**	**1.4**	**5.9**	**3/29/100**	**15:16:55**
92	**617**	**1.72 ± 0.39**	**POS**	**1.0 ± 1.4**	**1.7 ± 0.2**	**1.4**	**5.9**	**3/29/100**	**15:17:29**
93	**618**	**1.08 ± 0.18**	**POS**	**2.5 ± 0.8**	**2.5 ± 0.4**	**1.6**	**17.3**	**3/29/100**	**15:17:55**
94	**619**	**0.77 ± 0.19**	**POS**	**2.2 ± 0.7**	**2.2 ± 0.3**	**3.5**	**30.3**	**3/29/100**	**15:18:47**
95	620	0.06 ± 0.29	NEG	-0.5 ± 1.3	0.1 ± 0.1	4.1	5.8	3/29/100	15:20:52
96	621	0.03 ± 0.10	NEG	-0.7 ± 1.2	0.0 ± 0.1	5.3	5.9	3/29/100	15:21:27
97	622	0.03 ± 0.24	NEG	0.8 ± 0.7	0.0 ± 0.1	2.4	22.2	3/29/100	15:22:10
98	623	0.04 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	6.5	6.2	3/29/100	15:23:23
99	624	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.5	8.6	3/29/100	15:24:09
100	625	0.00 ± 0.10	NEG	0.6 ± 0.6	0.0 ± 0.1	1.0	8.6	3/29/100	15:26:34
101	626	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	15:26:58
102	627	0.01 ± 0.10	NEG	-0.3 ± 0.8	0.0 ± 0.1	1.0	6.1	3/29/100	15:27:17
103	628	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	11.1	3/29/100	15:28:11
104	629	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.2	6.2	3/29/100	15:28:43
105	630	0.00 ± 0.10	NEG	0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/29/100	15:29:01
106	631	0.03 ± 0.10	NEG	0.4 ± 0.6	0.0 ± 0.1	5.3	18.5	3/29/100	15:29:30
107	632	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	15:30:43
108	633	0.12 ± 0.21	NEG	-0.4 ± 1.0	0.1 ± 0.1	3.2	8.6	3/29/100	15:31:13
109	634	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.0	3/29/100	15:32:24
110	635	0.02 ± 0.10	NEG	-0.7 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:32:46
111	636	0.02 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:33:08

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Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
112	637	0.33 ± 0.23	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	20.8	3/29/100	15:33:33
113	638	0.28 ± 0.18	NEG	0.6 ± 0.4	0.6 ± 0.2	10.0	50.1	3/29/100	15:34:26
114	639	0.16 ± 0.33	NEG	0.1 ± 1.0	0.2 ± 0.2	5.8	11.0	3/29/100	15:36:55
115	640	0.24 ± 0.17	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	23.3	3/29/100	15:37:28
116	**641**	**2.51 ± 0.64**	**POS**	**6.2 ± 2.1**	**2.5 ± 0.3**	**1.3**	**3.4**	**3/29/100**	**15:38:33**
117	642	0.00 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	1.0	6.1	3/29/100	15:39:02
118	643	0.01 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/29/100	15:39:23
119	644	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	15:39:49
120	645	0.00 ± 0.10	NEG	0.0 ± 0.8	0.0 ± 0.1	1.0	8.6	3/29/100	15:41:34
121	646	0.02 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	4.7	6.2	3/29/100	15:41:58
122	647	0.06 ± 0.10	NEG	0.7 ± 0.4	0.1 ± 0.1	7.7	50.4	3/29/100	15:47:01
123	**648**	**0.16 ± 0.11**	**POS**	**1.0 ± 0.4**	**1.0 ± 0.2**	**10.0**	**50.3**	**3/29/100**	**15:48:56**
124	649	0.05 ± 0.10	NEG	-0.3 ± 1.2	0.1 ± 0.1	7.2	6.1	3/29/100	15:51:35
125	650	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/29/100	15:52:19
126	651	0.01 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	3.0	8.6	3/29/100	15:52:47
127	652	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.0	3/29/100	15:53:26
128	653	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	6.1	3/29/100	15:53:51
129	654	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	6.2	3/29/100	15:54:12
130	**655**	**3.62 ± 1.05**	**POS**	**4.7 ± 2.2**	**3.6 ± 0.5**	**1.7**	**3.4**	**3/29/100**	**15:54:39**
131	656	0.01 ± 0.10	NEG	-0.1 ± 0.7	0.0 ± 0.1	3.5	16.0	3/29/100	15:55:00
132	657	0.03 ± 0.10	NEG	-0.2 ± 0.7	-0.2 ± 0.3	10.0	21.0	3/29/100	15:55:40
133	658	0.03 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	4.9	6.1	3/29/100	15:56:35
134	659	0.44 ± 0.38	NEG	0.8 ± 0.7	0.4 ± 0.2	7.7	20.8	3/29/100	15:56:58
135	660	0.01 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.0	3/29/100	15:58:04
136	661	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	6.1	3/29/100	15:58:36
137	**662**	**2.96 ± 0.82**	**POS**	**5.5 ± 2.3**	**3.0 ± 0.4**	**1.5**	**3.4**	**3/29/100**	**15:59:12**
138	663	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.0	8.6	3/29/100	16:00:29
139	664	0.07 ± 0.10	NEG	0.2 ± 0.5	0.2 ± 0.3	10.0	50.3	3/29/100	16:00:58

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Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
140	665	0.05 ± 0.25	NEG	0.4 ± 0.8	0.1 ± 0.1	2.8	19.7	3/29/100	16:03:07
141	666	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.0	6.1	3/29/100	16:06:57
142	**667**	**1.22 ± 0.66**	**POS**	**1.1 ± 0.7**	**1.1 ± 0.4**	**9.8**	**20.8**	**3/29/100**	**16:07:24**
143	**668**	**>>5.0 ± 1.00**	**POS**	**5.9 ± 3.9**	**5.9 ± 1.9**	**10.0**	**1.2**	**3/29/100**	**16:08:31**
144	**669**	**4.47 ± 1.63**	**POS**	**3.2 ± 3.8**	**4.5 ± 0.8**	**5.5**	**1.2**	**3/29/100**	**16:09:09**
145	**670**	**1.09 ± 0.63**	**POS**	**1.9 ± 0.7**	**1.9 ± 0.4**	**9.8**	**20.8**	**3/29/100**	**16:09:25**
146	671	0.01 ± 0.10	NEG	0.3 ± 0.6	0.0 ± 0.1	5.3	28.2	3/29/100	16:10:46
147	672	0.02 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.8	13.5	3/29/100	16:11:53
148	673	0.10 ± 0.10	NEG	0.8 ± 0.7	0.1 ± 0.1	1.0	23.2	3/29/100	16:12:25
149	674	0.42 ± 0.28	NEG	0.8 ± 0.5	0.4 ± 0.1	7.7	35.3	3/29/100	16:13:52
150	**675**	**2.95 ± 1.01**	**POS**	**4.0 ± 1.6**	**3.0 ± 0.5**	**3.2**	**6.0**	**3/29/100**	**16:15:26**
151	**676**	**3.99 ± 2.10**	**POS**	**4.7 ± 1.5**	**4.7 ± 0.8**	**3.8**	**6.0**	**3/29/100**	**16:16:15**
152	677	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/29/100	16:16:45
153	678	0.00 ± 0.10	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.0	6.1	3/29/100	16:18:04

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Site: Ranges (NEG<INC<POS): Device PCS

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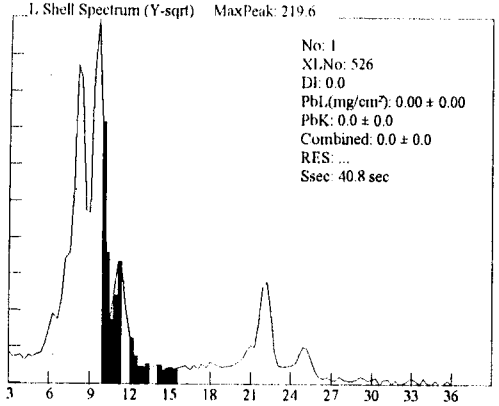

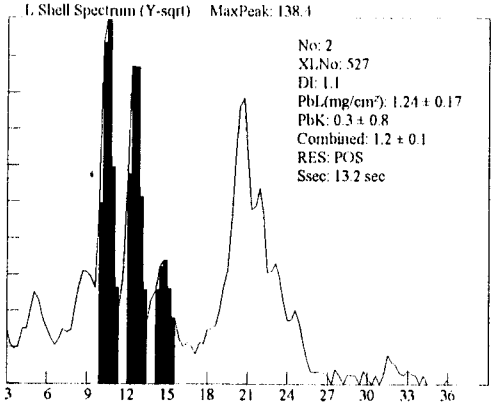

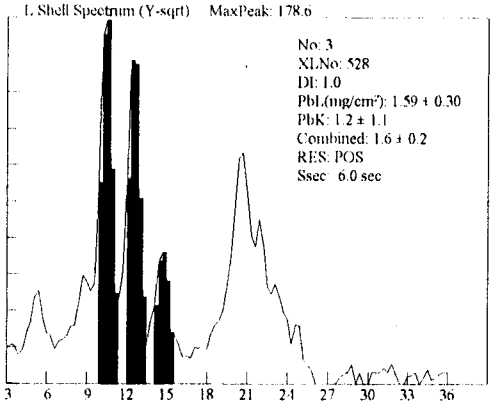

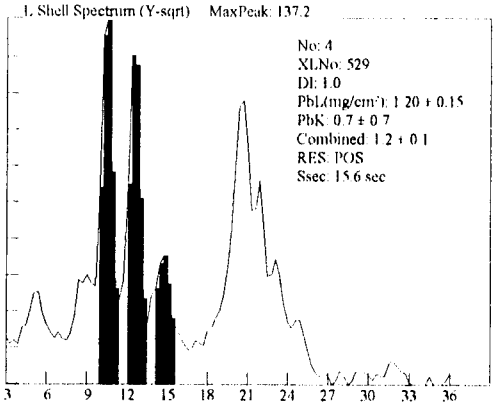

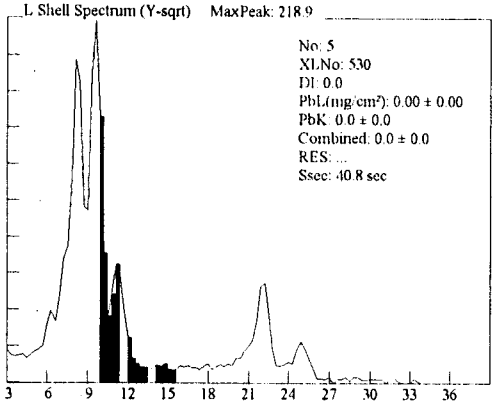

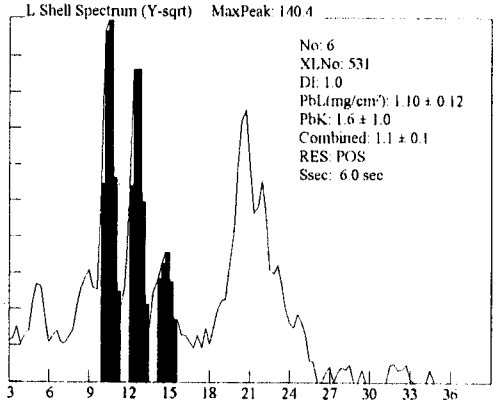

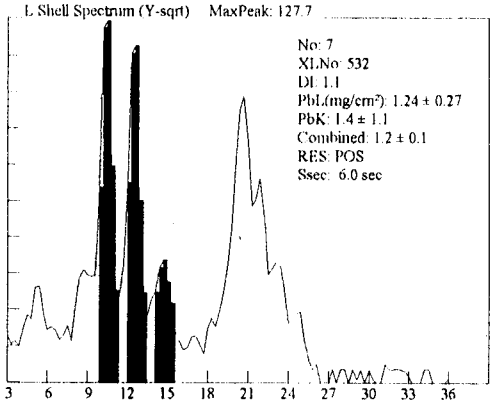

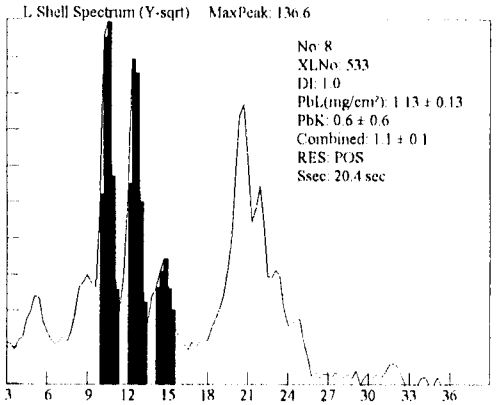

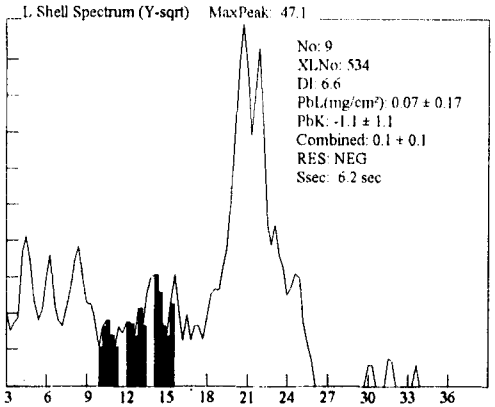

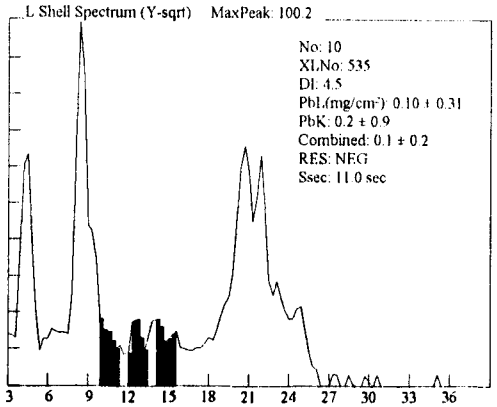

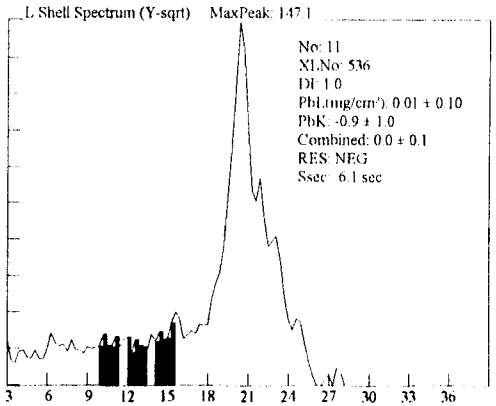

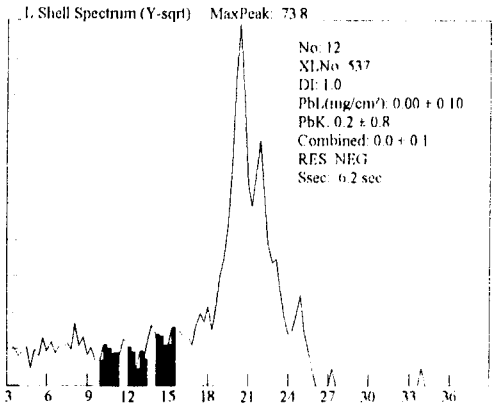

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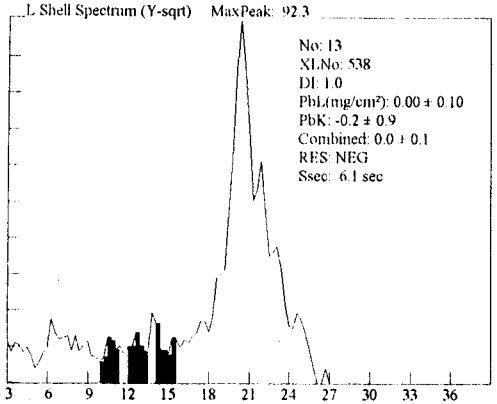

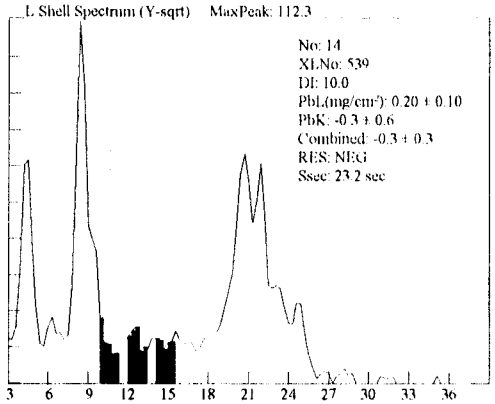

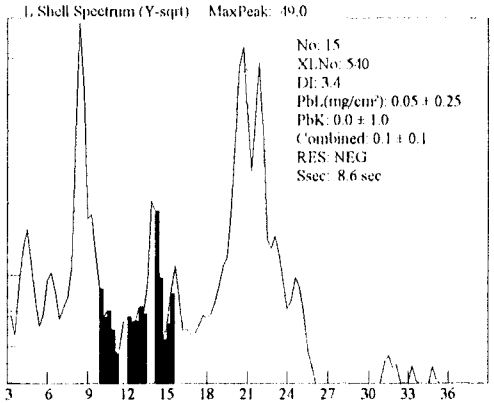

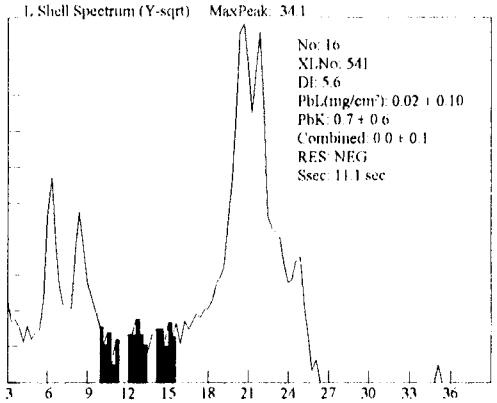

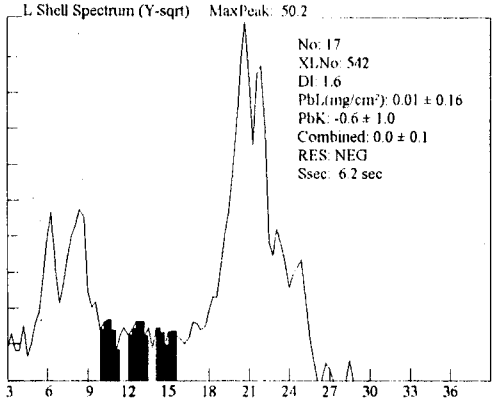

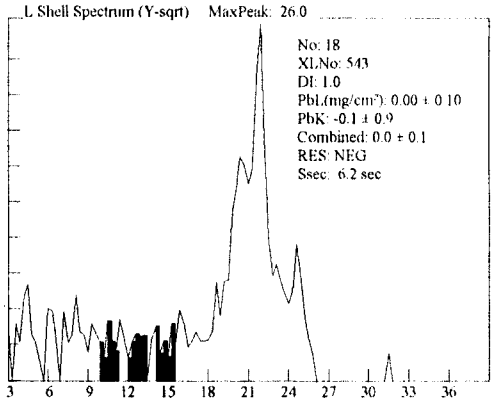

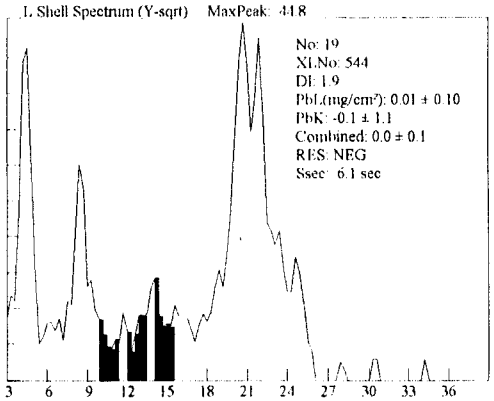

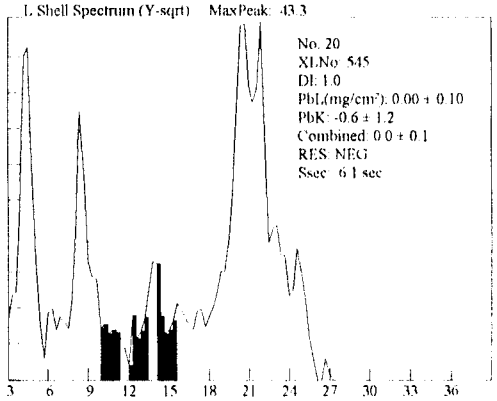

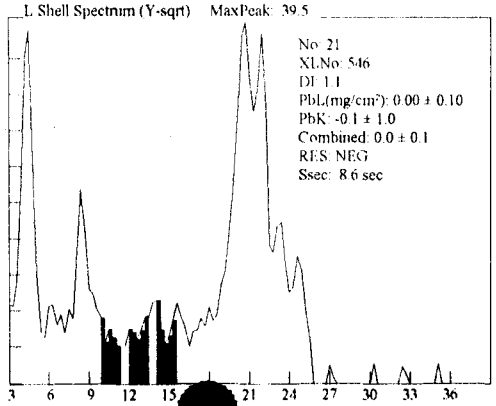

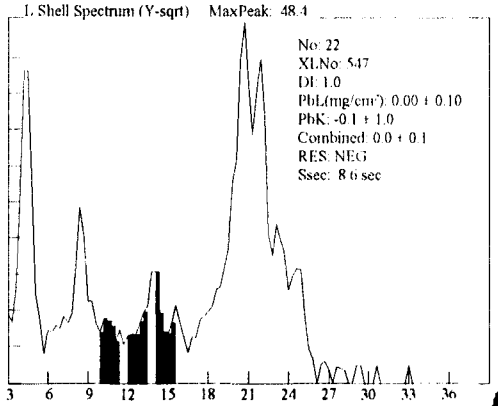

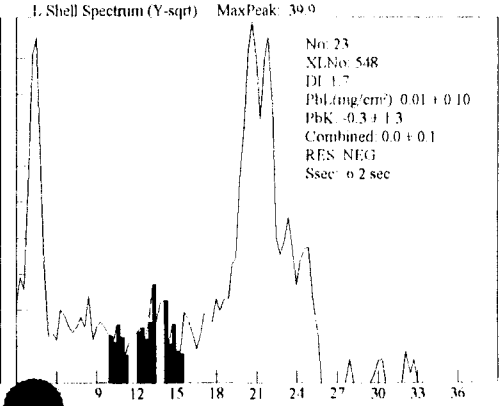

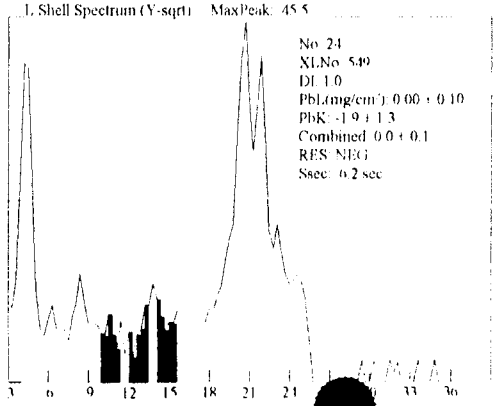

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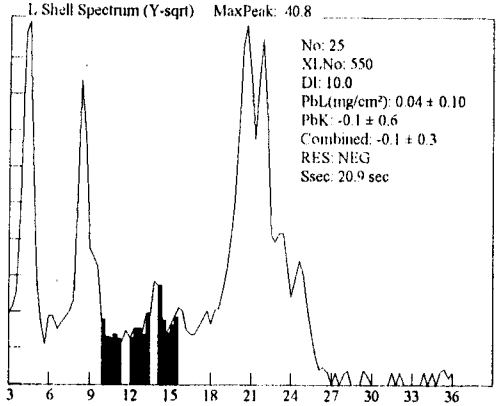

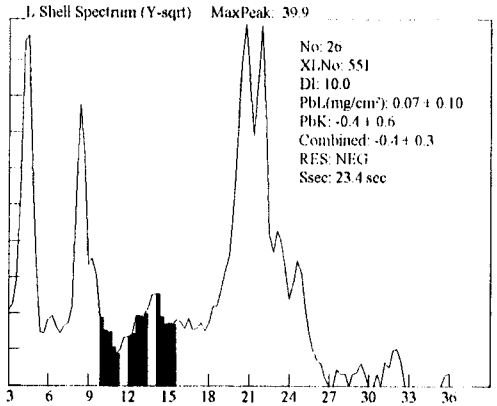

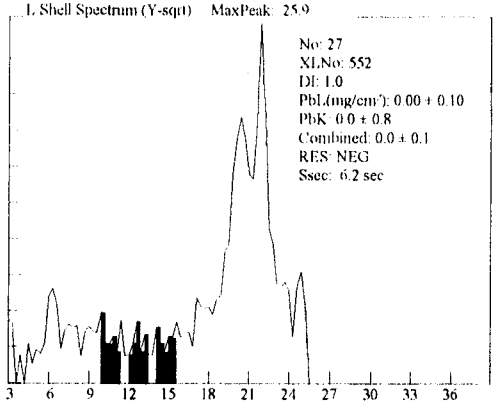

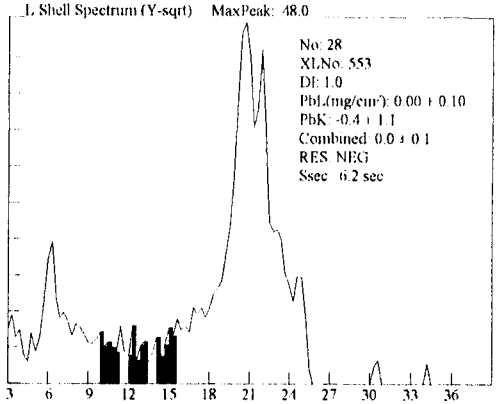

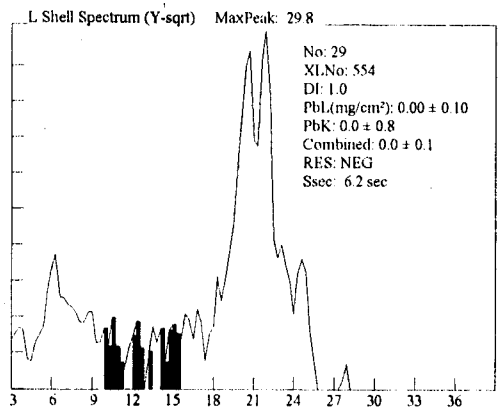

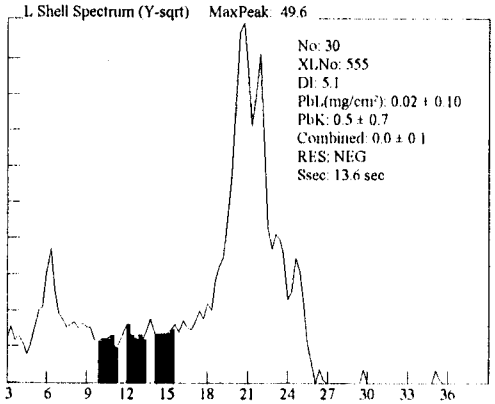

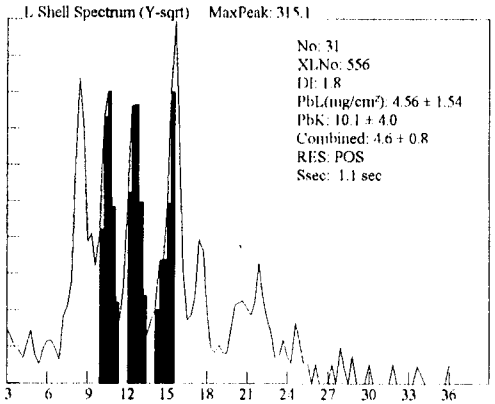

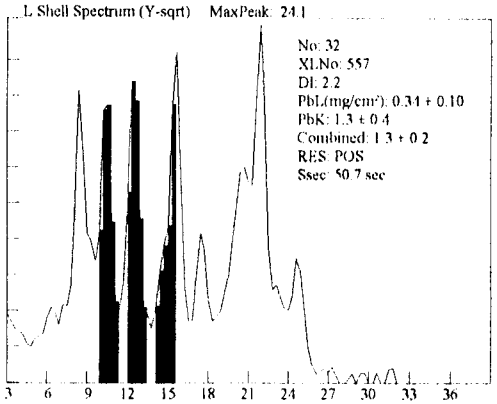

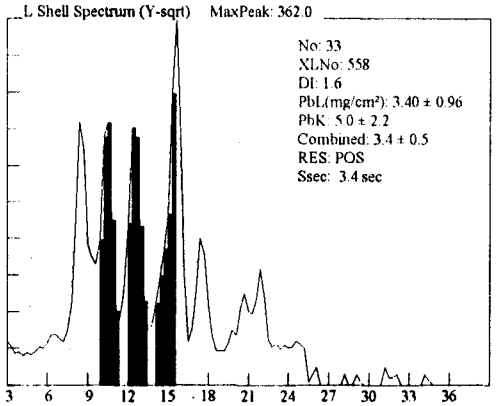

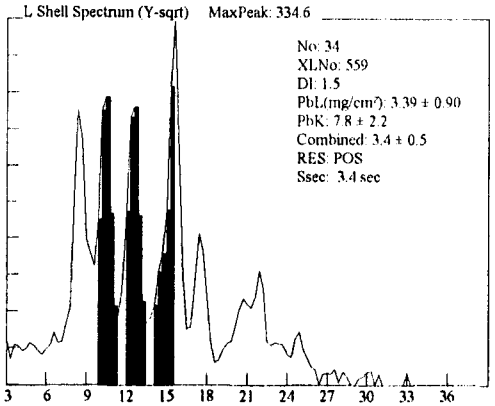

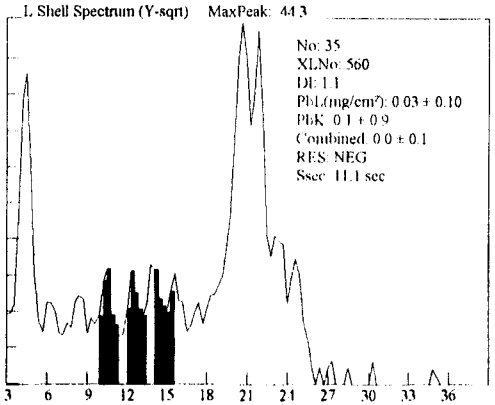

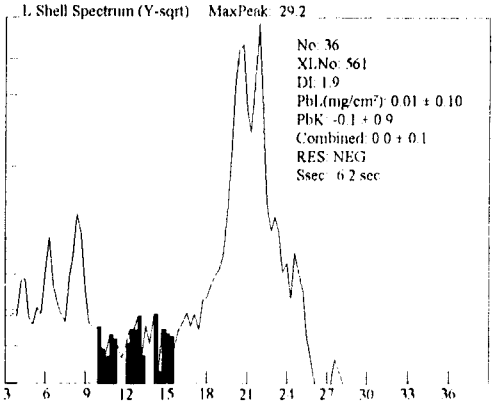

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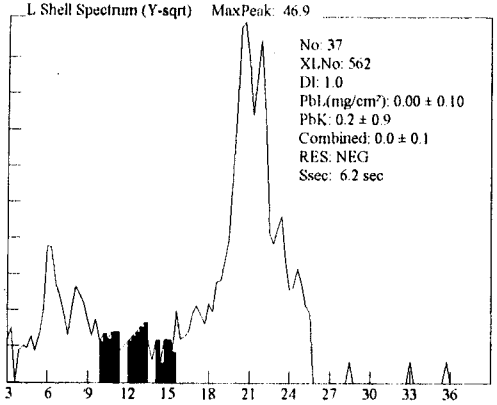

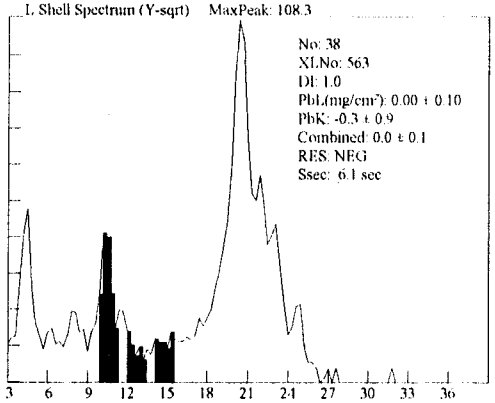

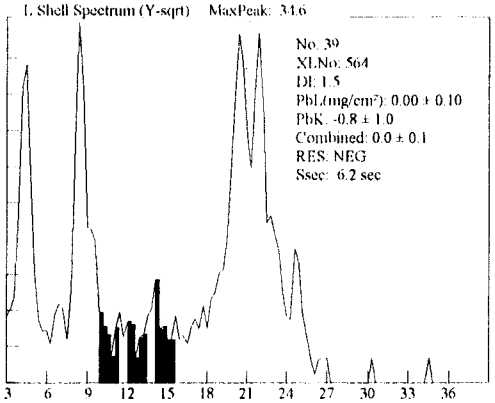

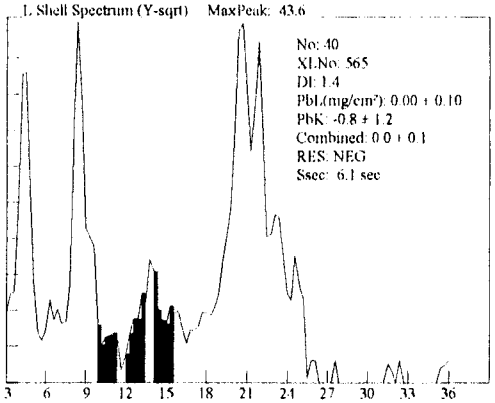

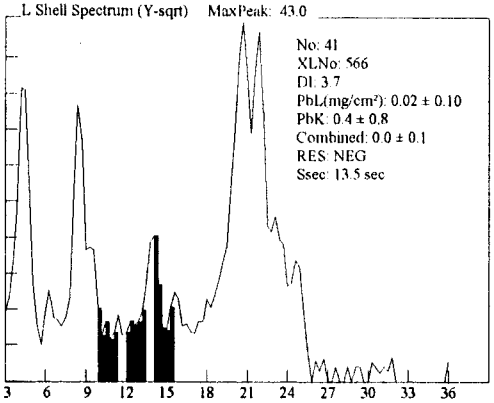

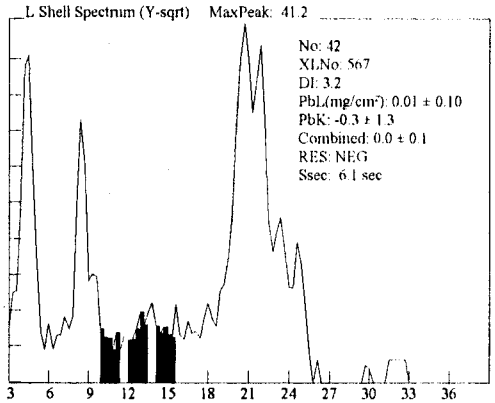

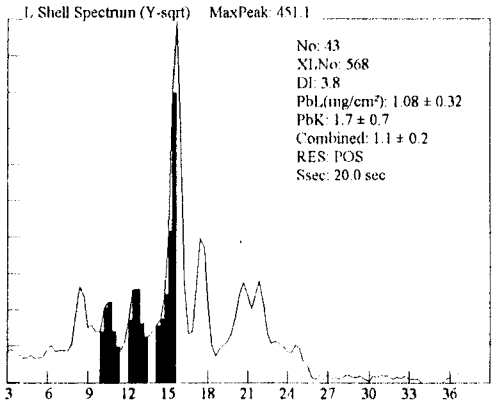

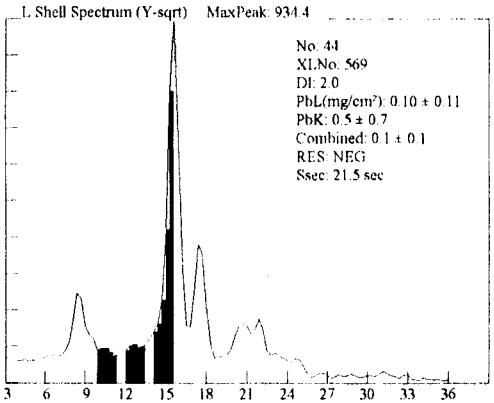

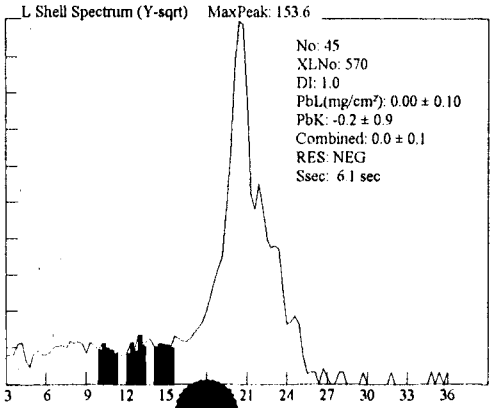

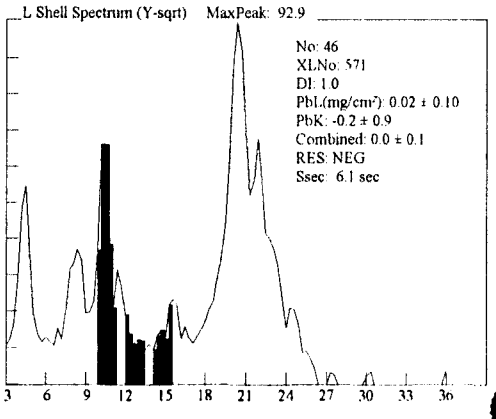

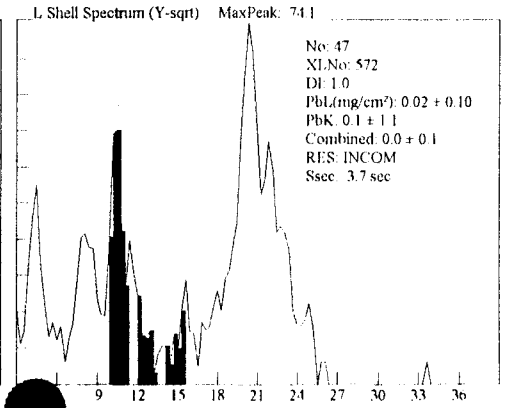

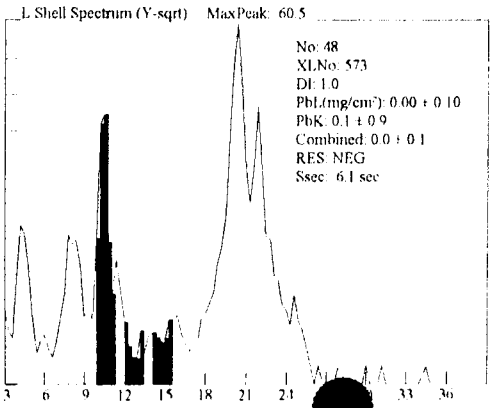

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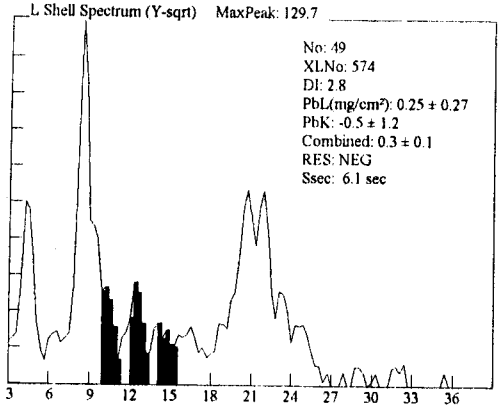

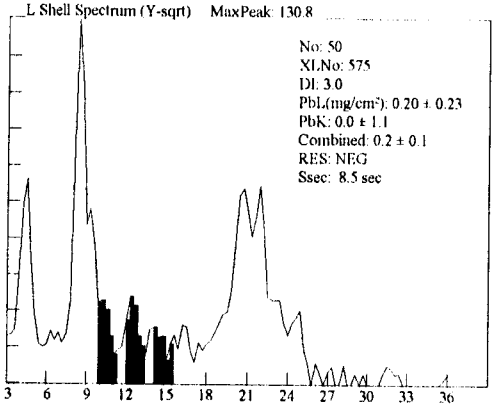

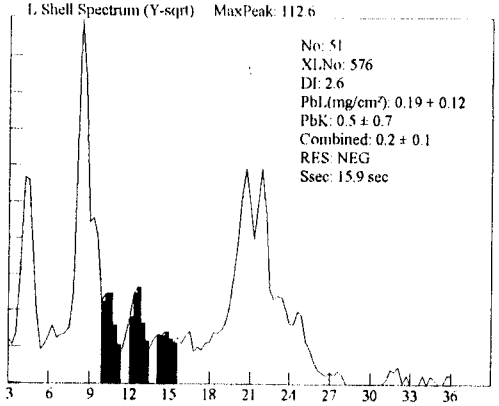

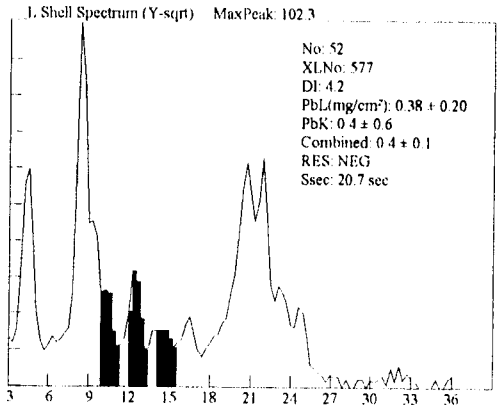

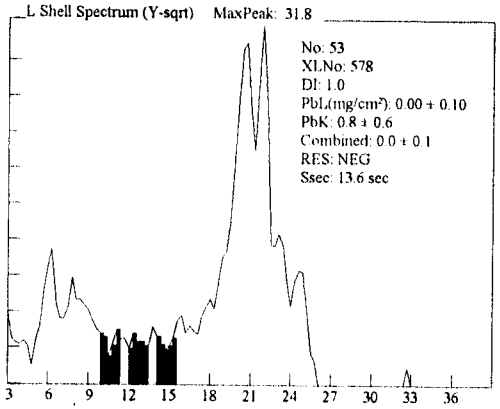

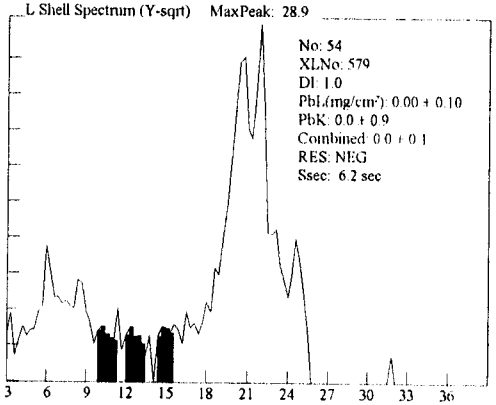

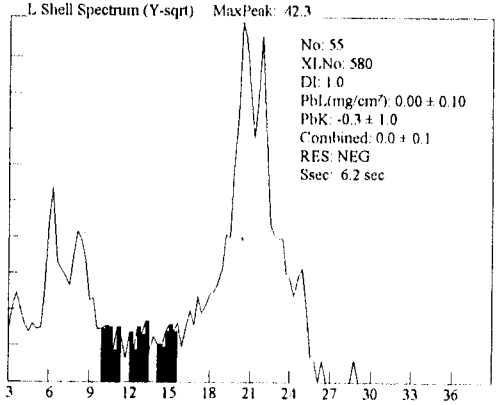

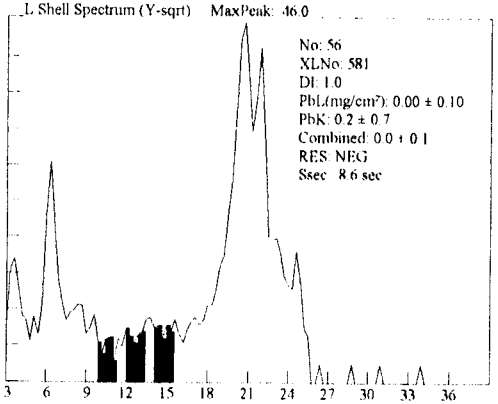

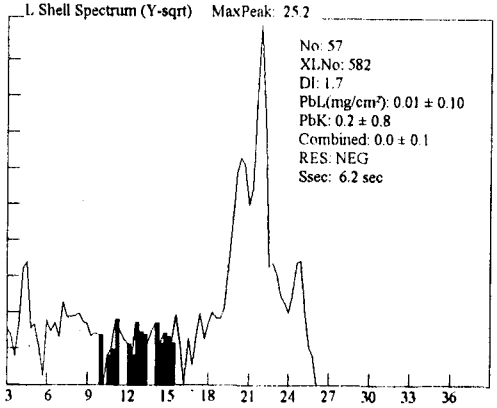

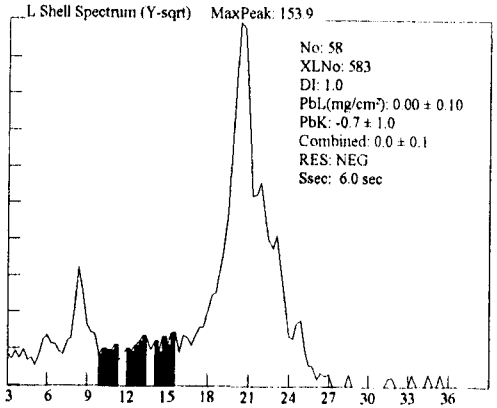

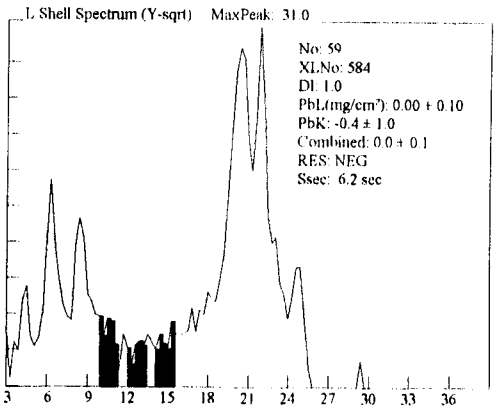

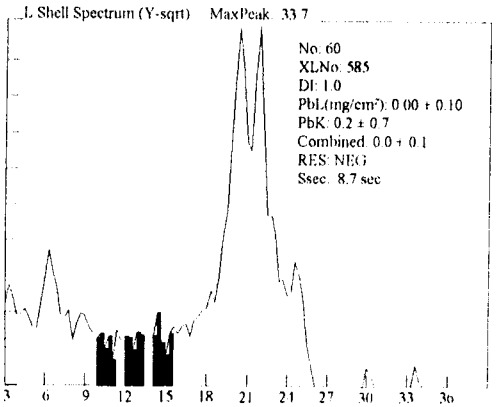

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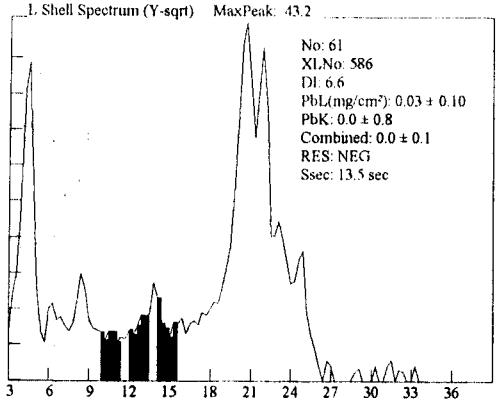

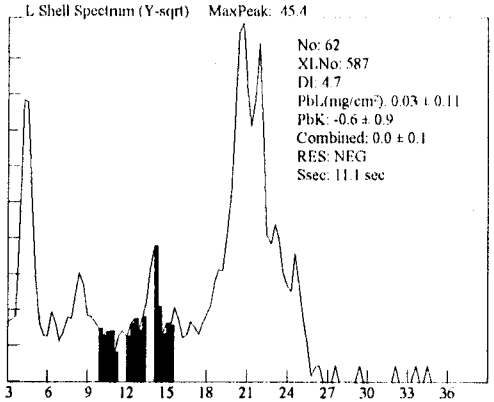

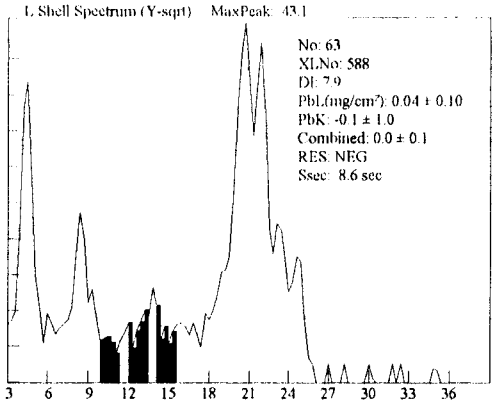

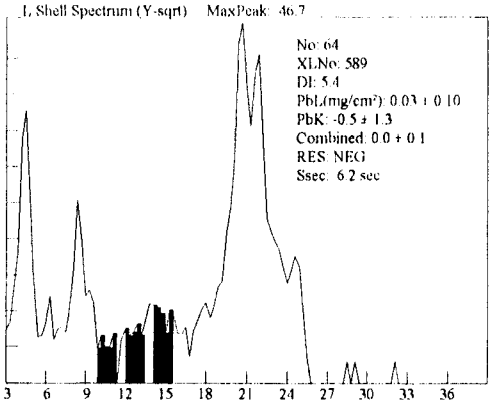

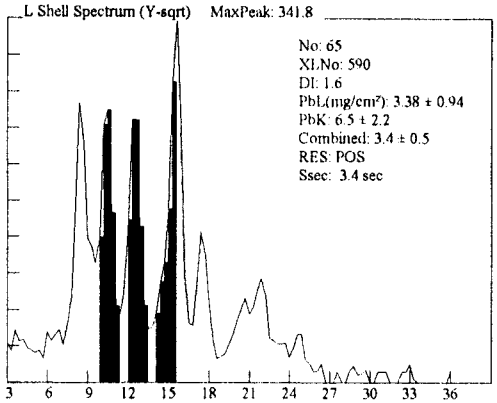

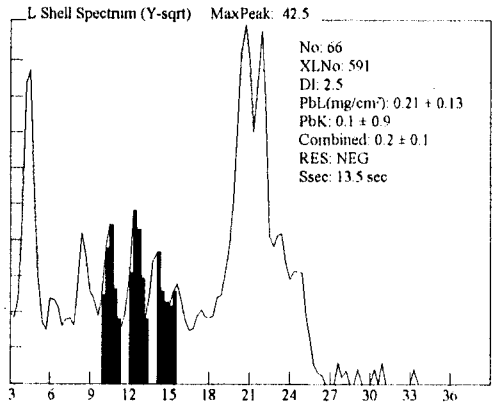

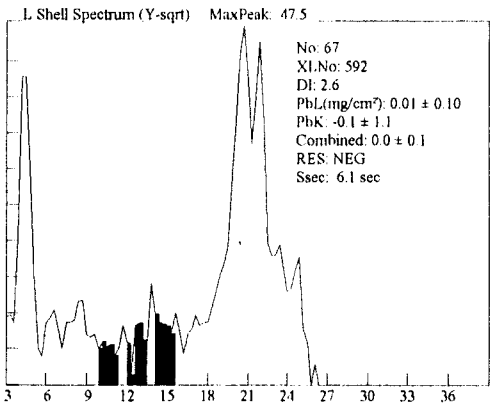

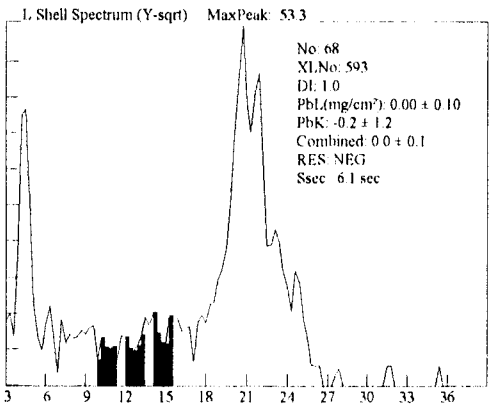

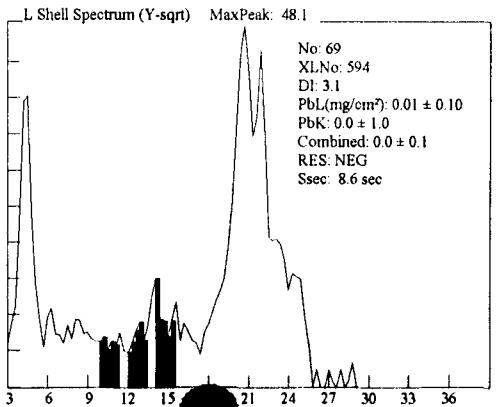

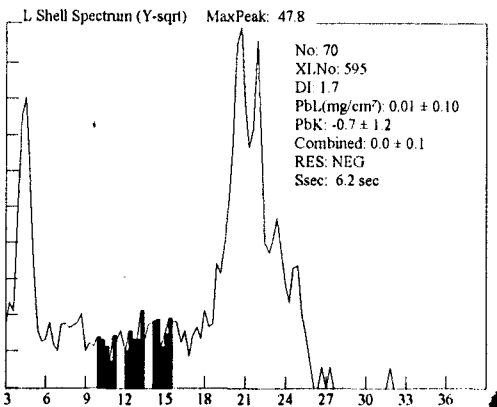

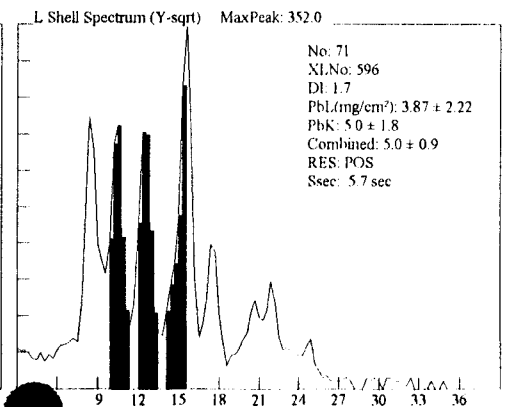

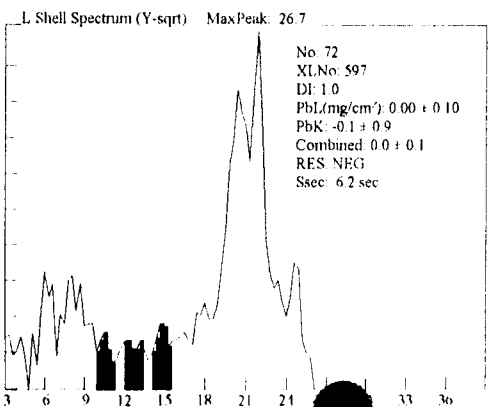

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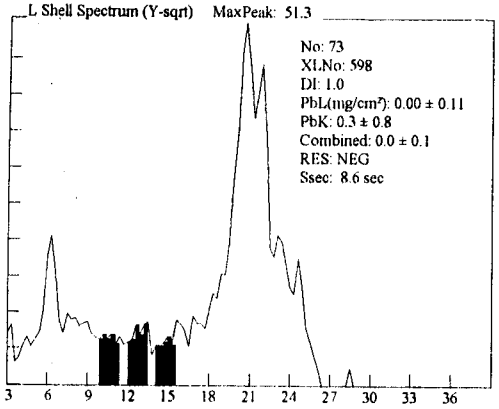

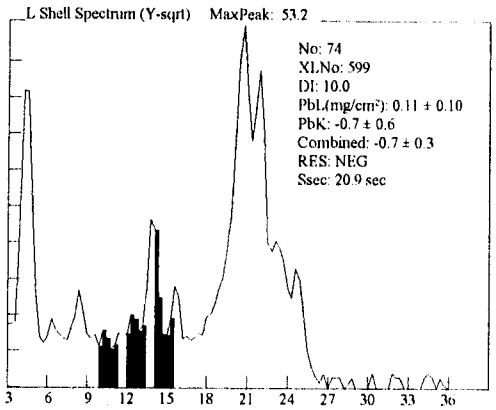

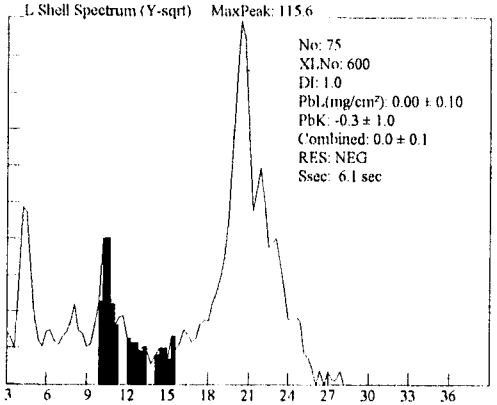

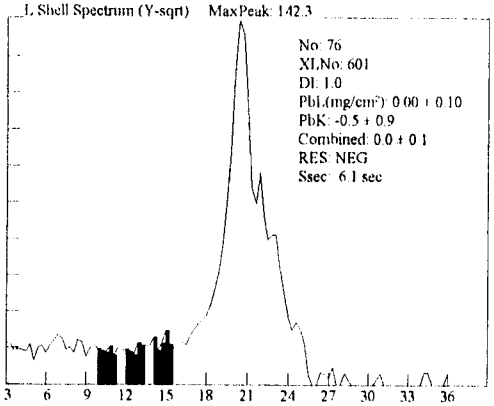

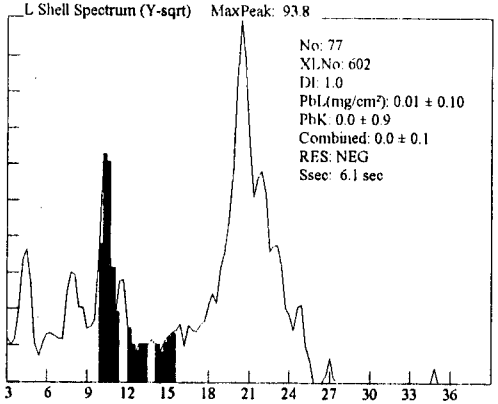

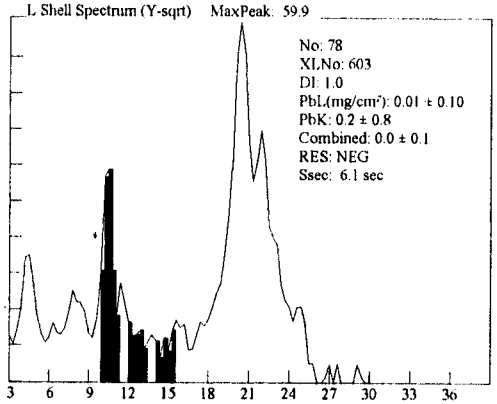

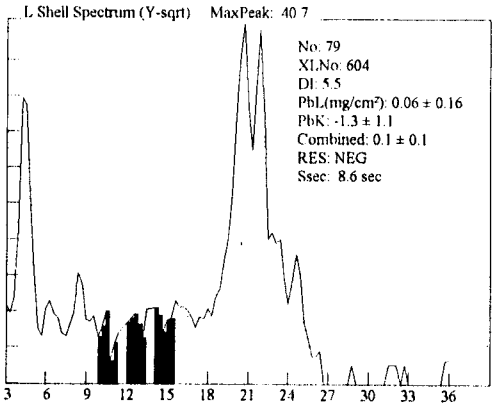

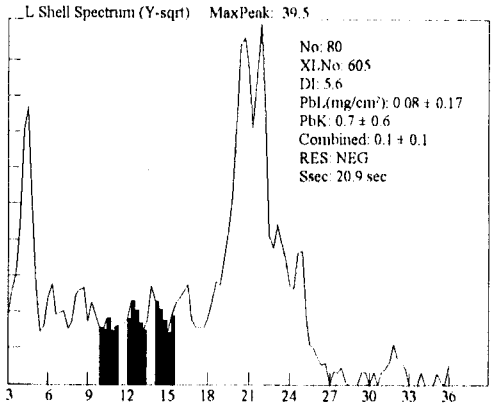

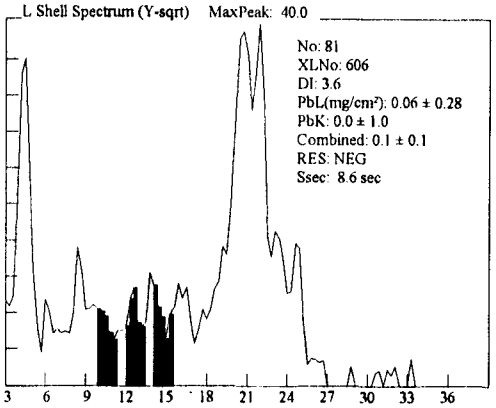

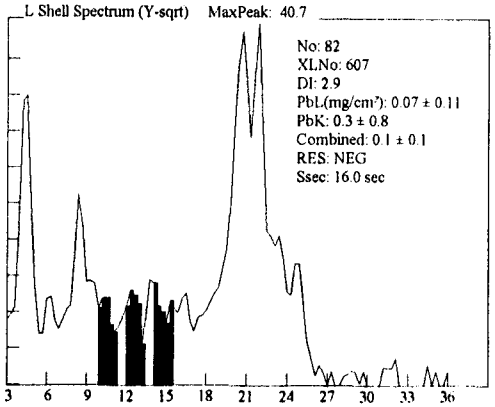

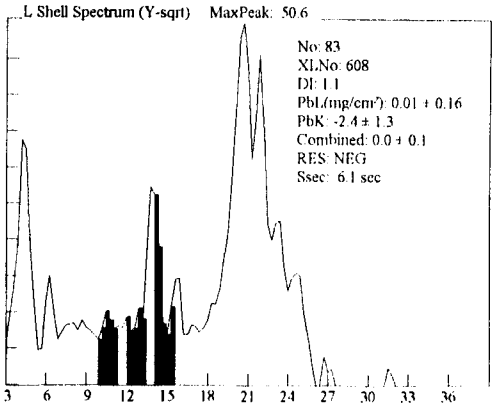

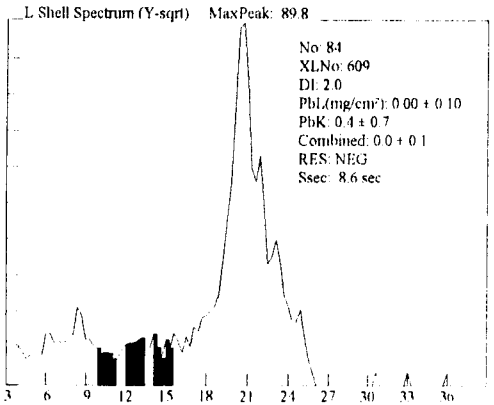

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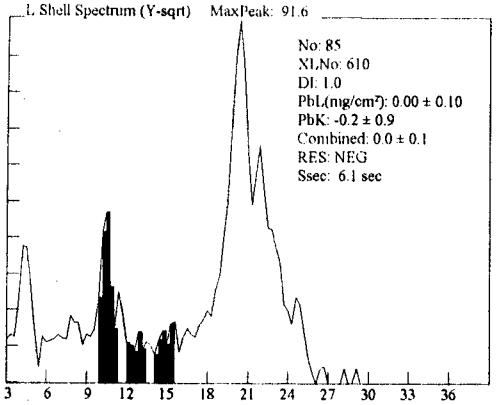

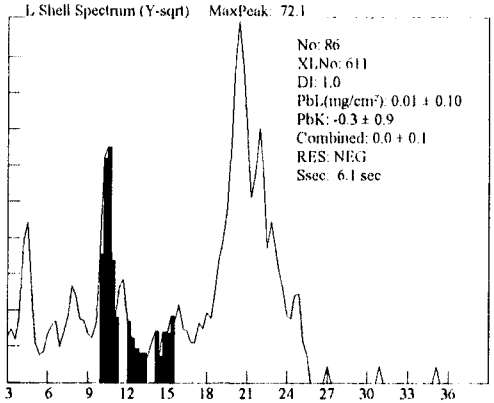

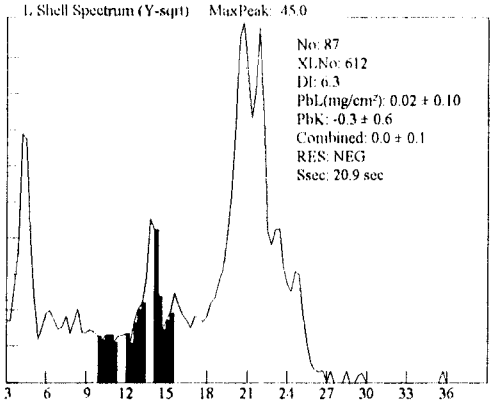

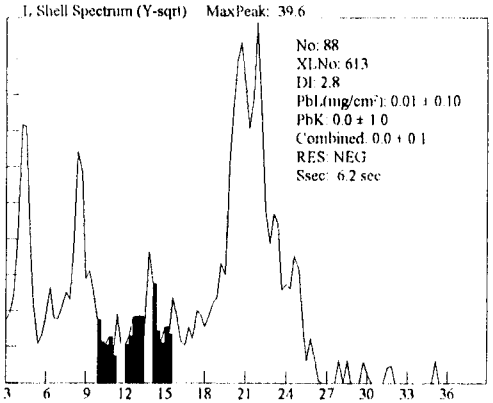

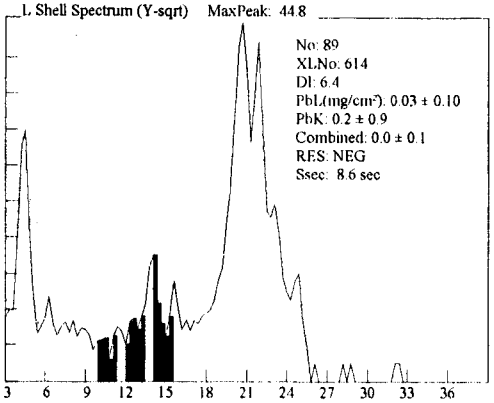

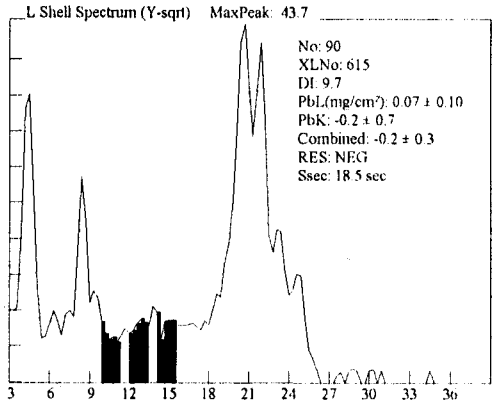

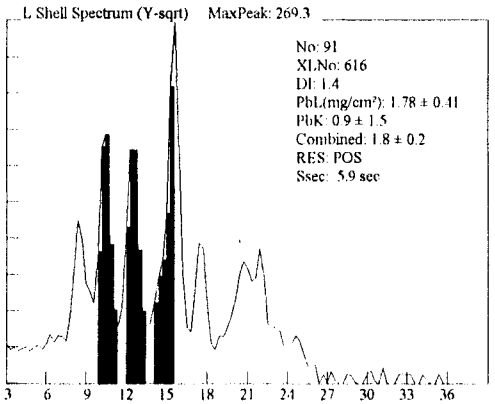

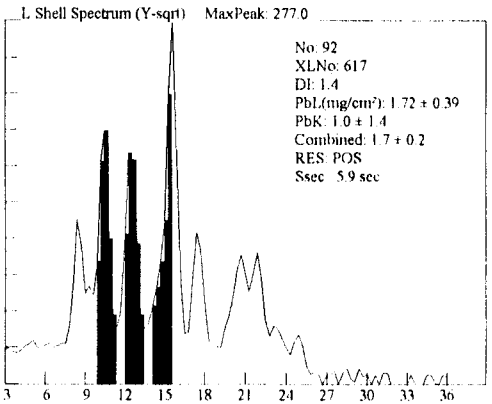

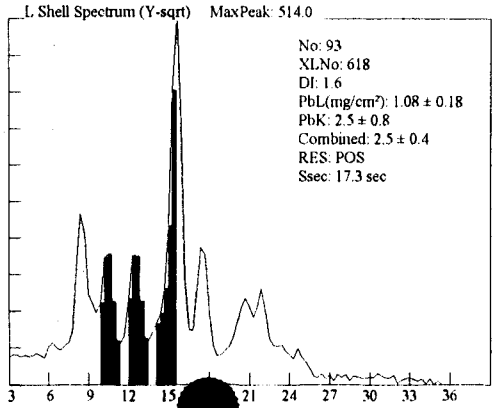

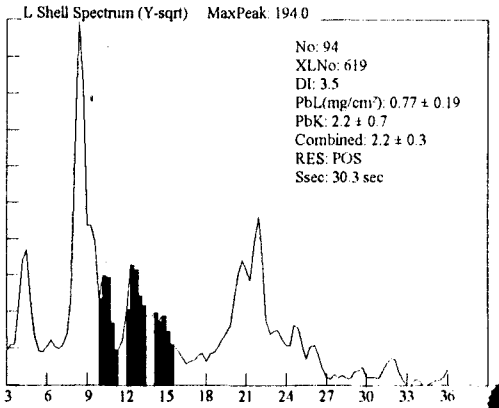

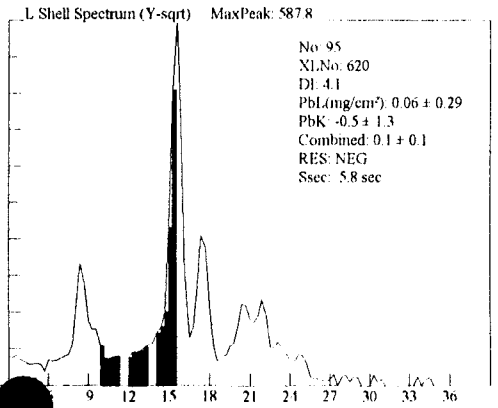

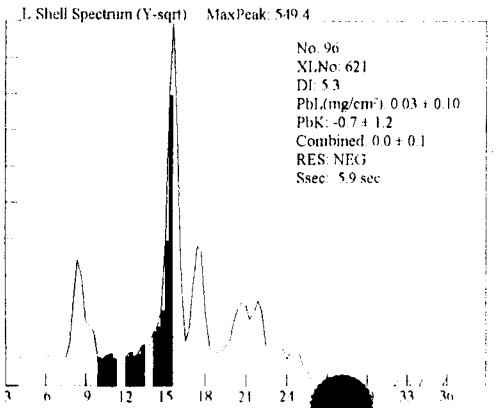

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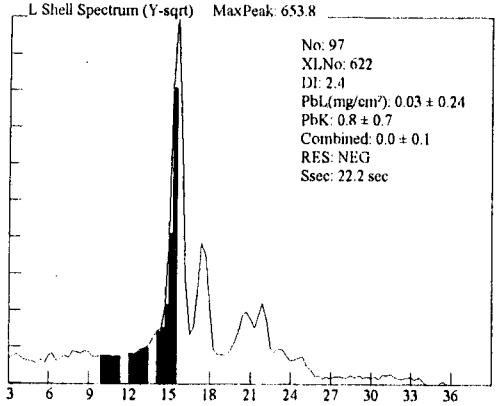

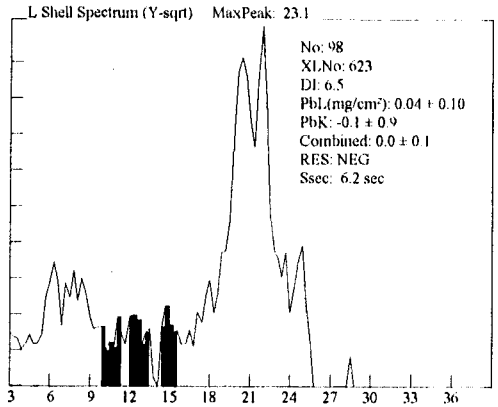

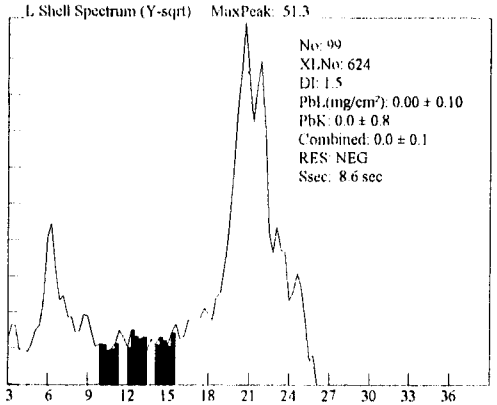

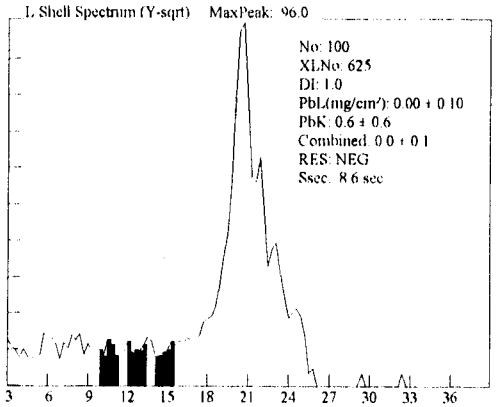

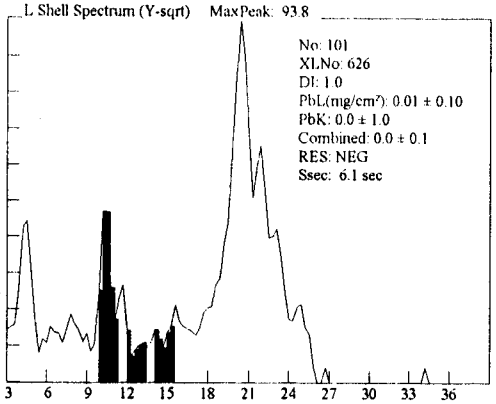

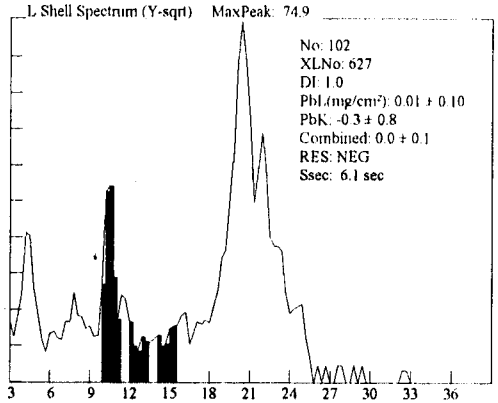

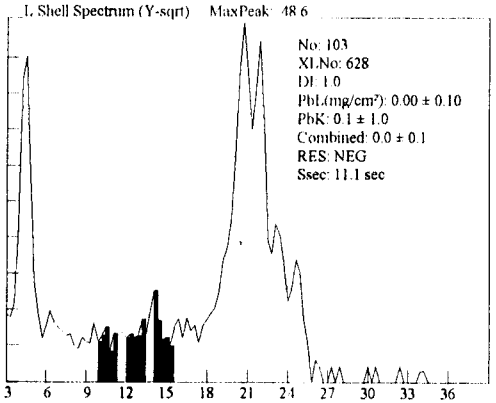

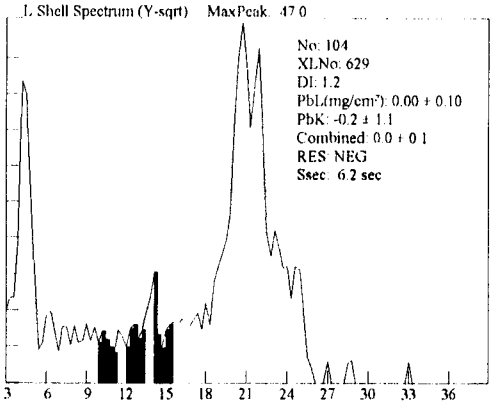

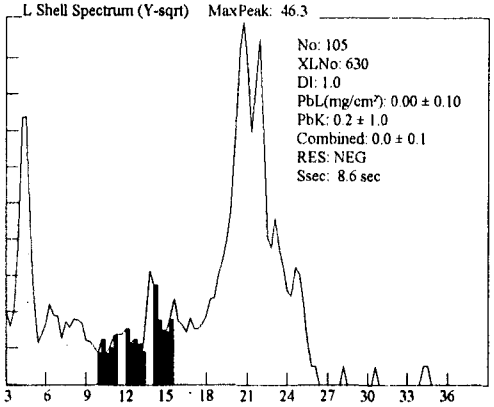

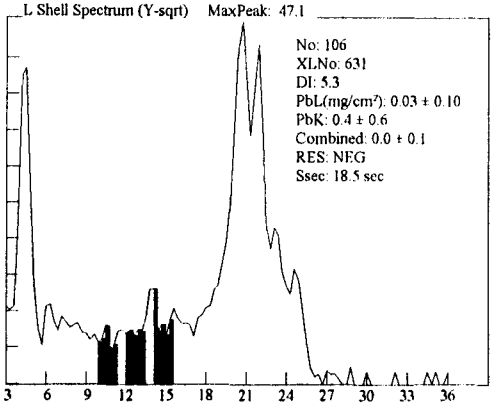

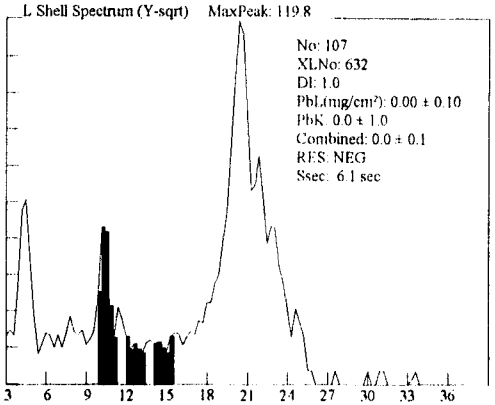

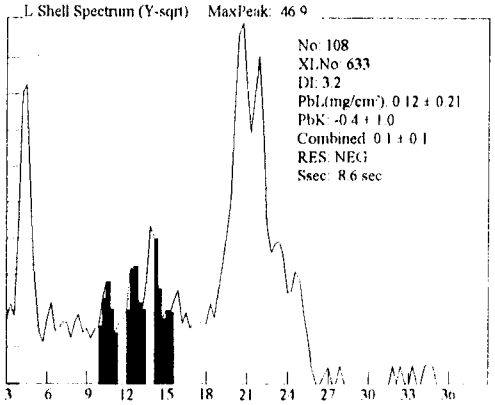

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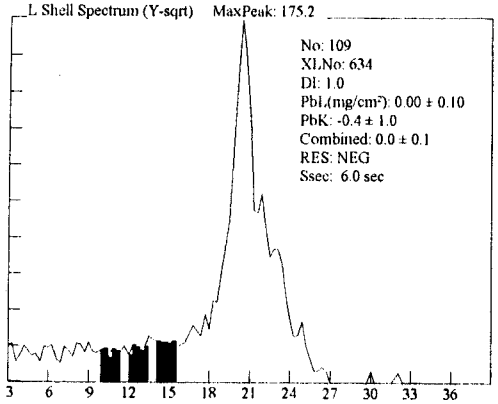

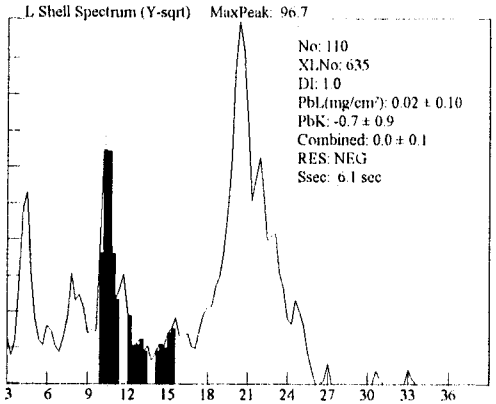

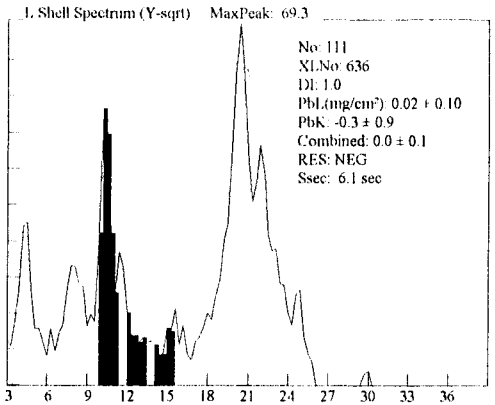

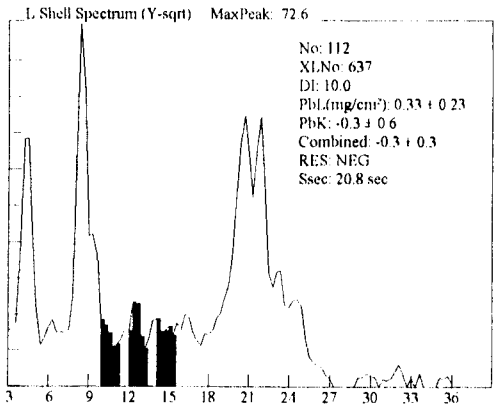

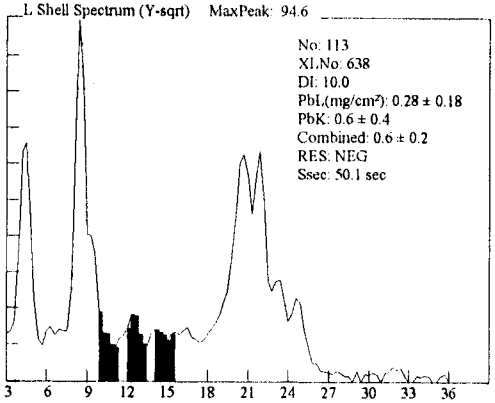

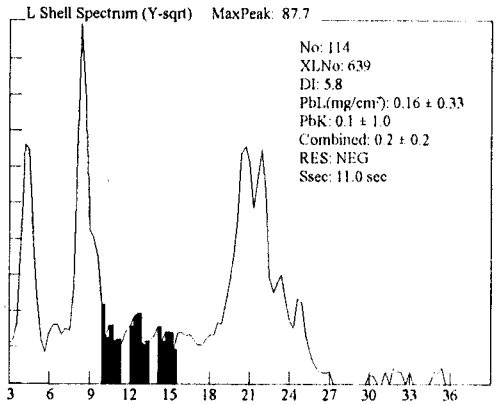

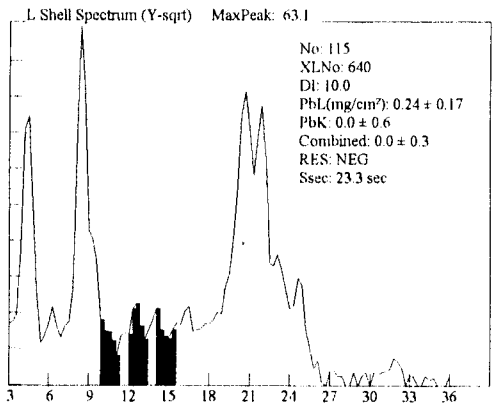

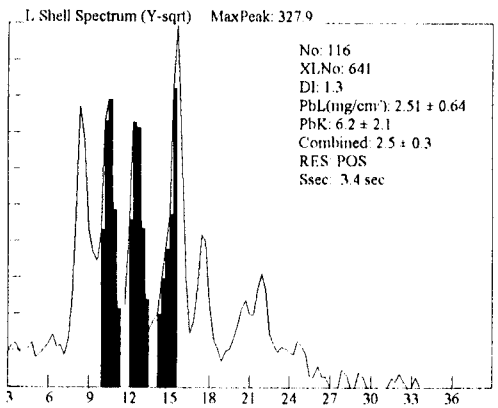

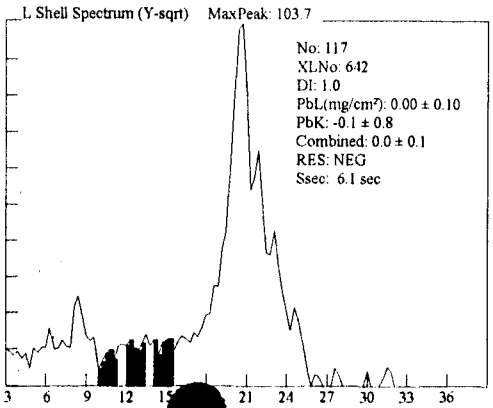

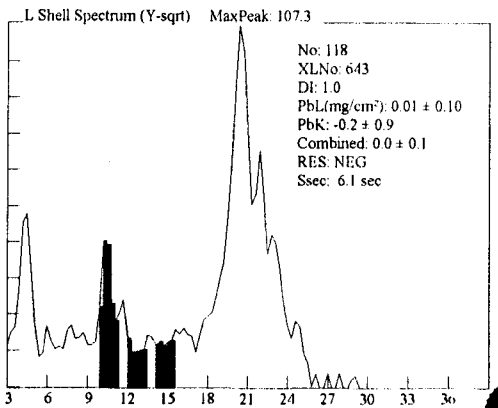

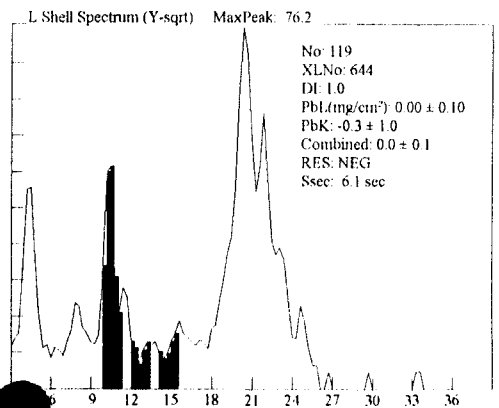

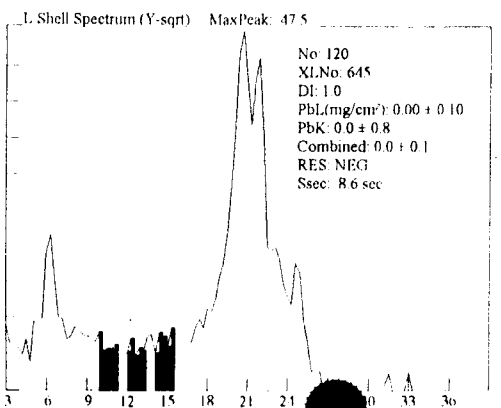

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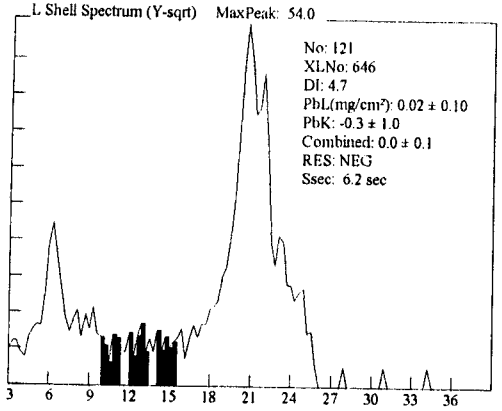

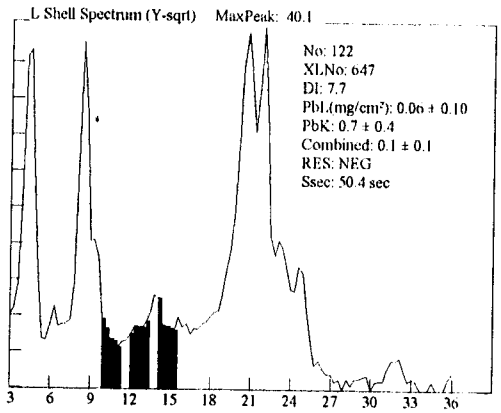

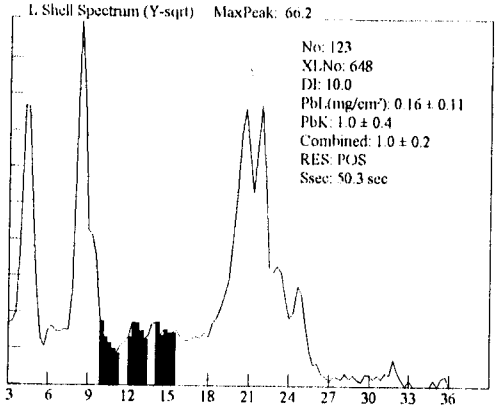

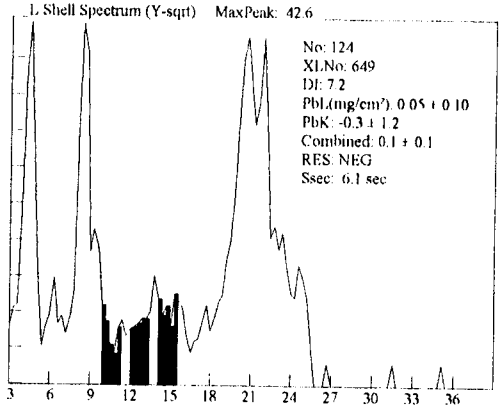

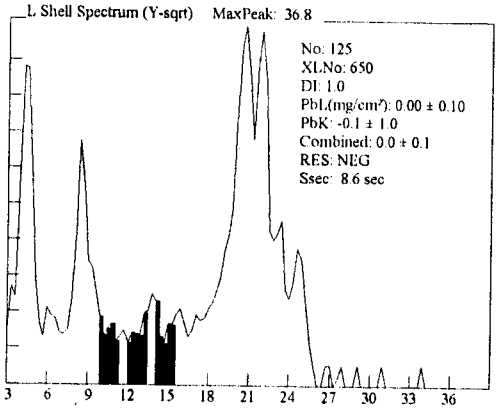

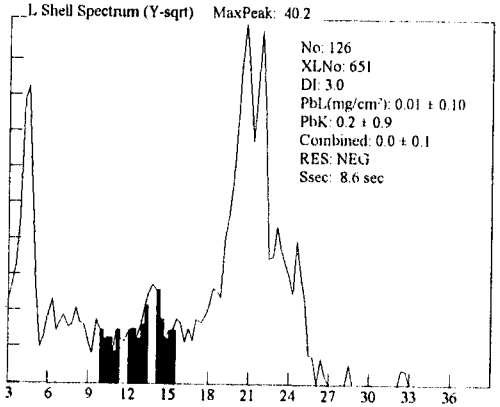

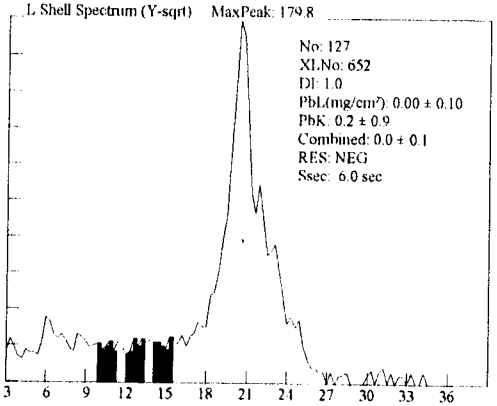

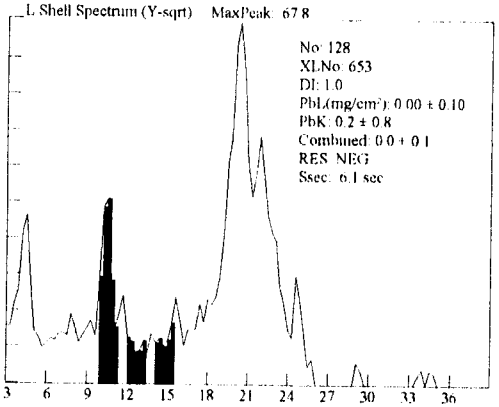

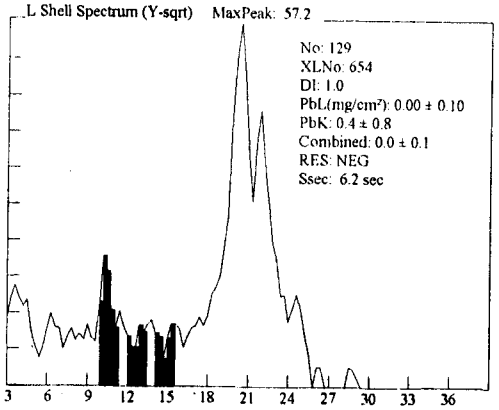

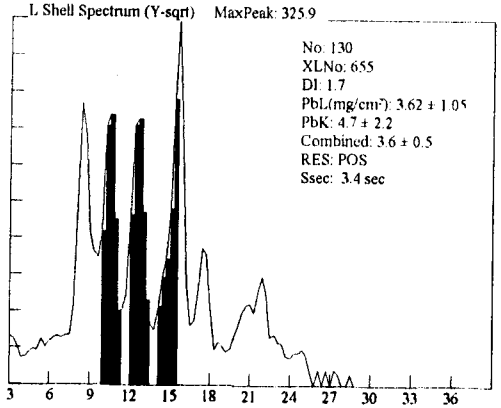

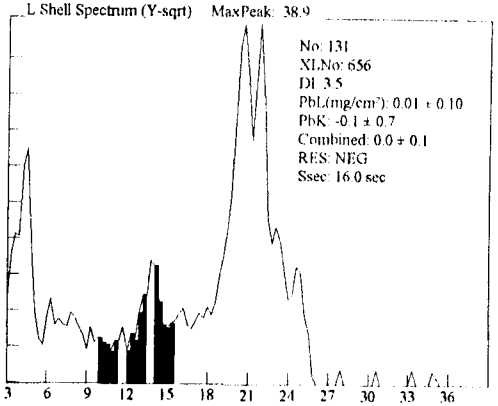

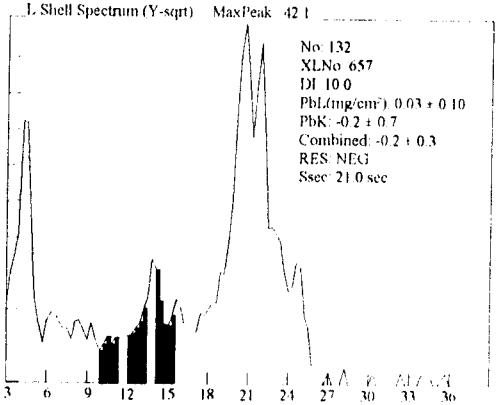

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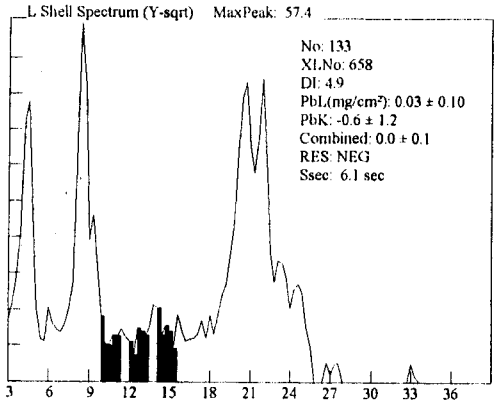

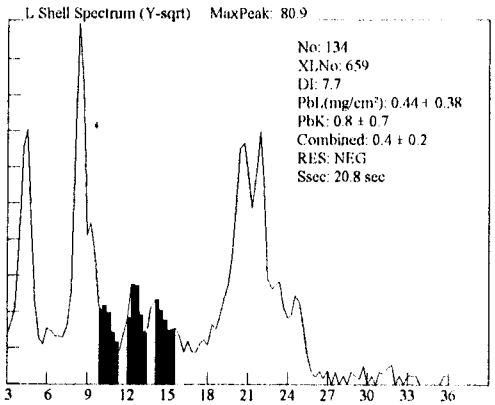

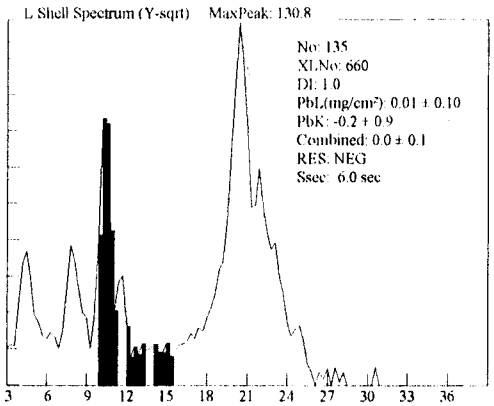

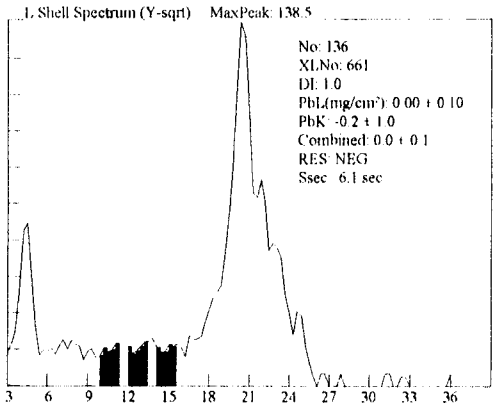

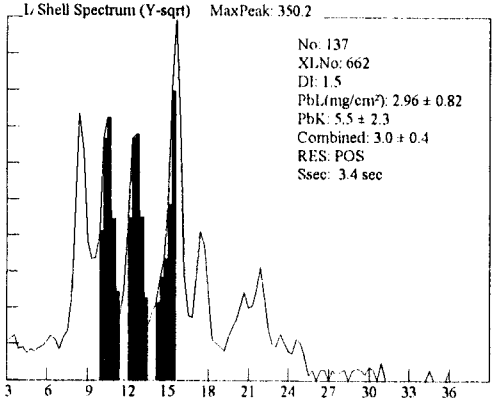

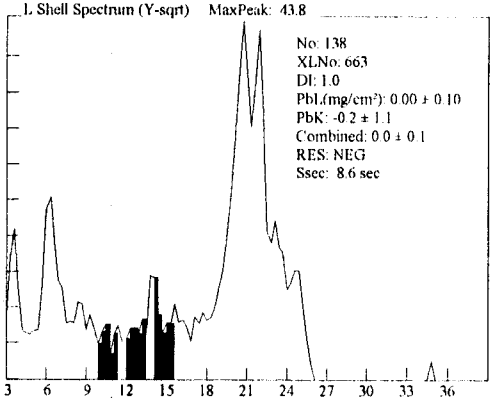

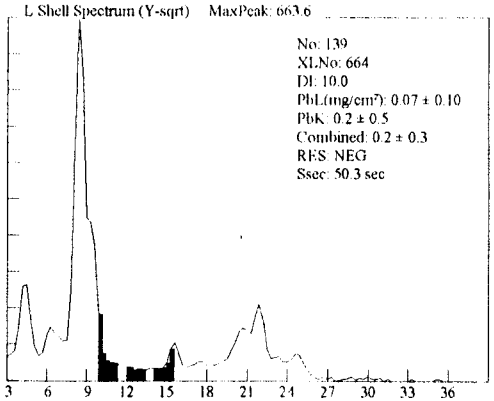

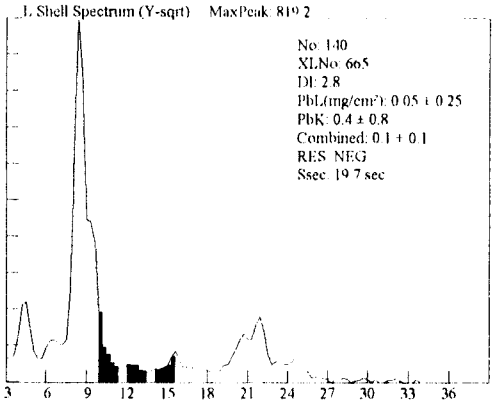

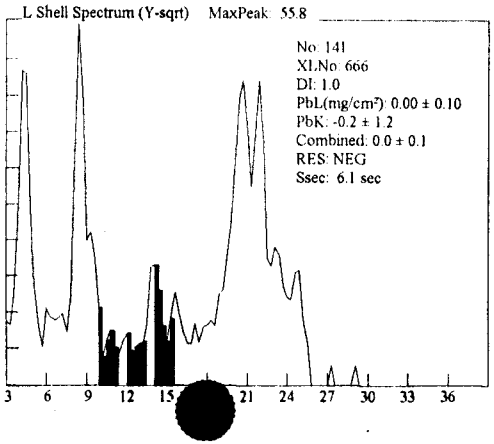

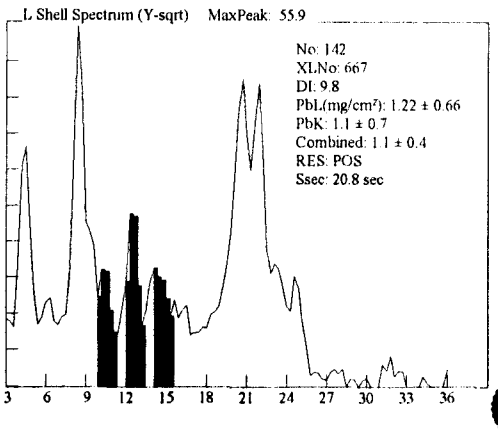

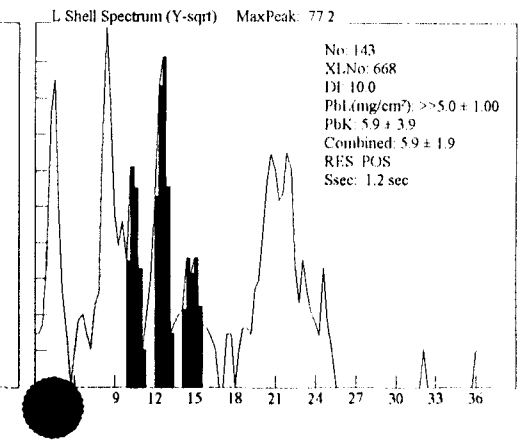

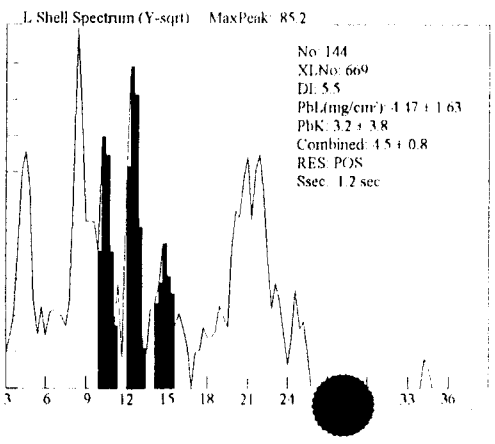

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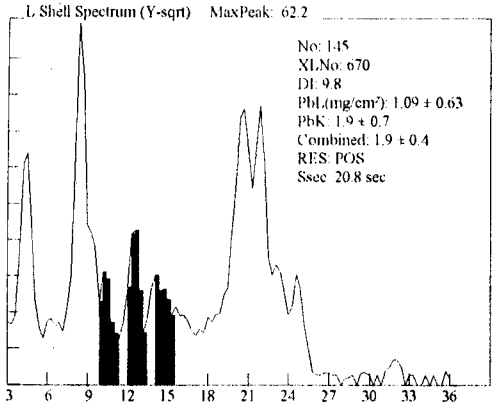

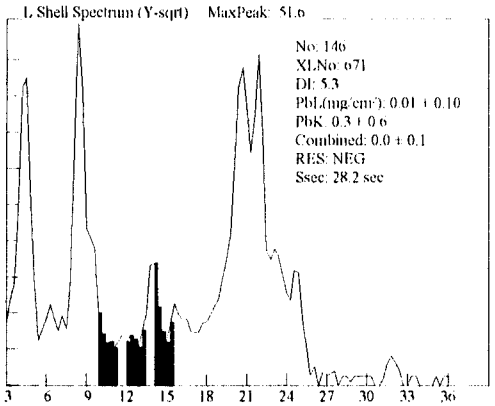

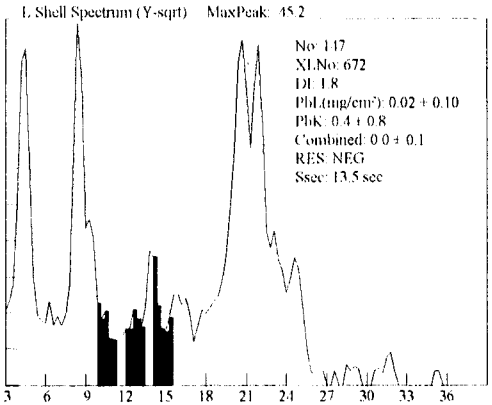

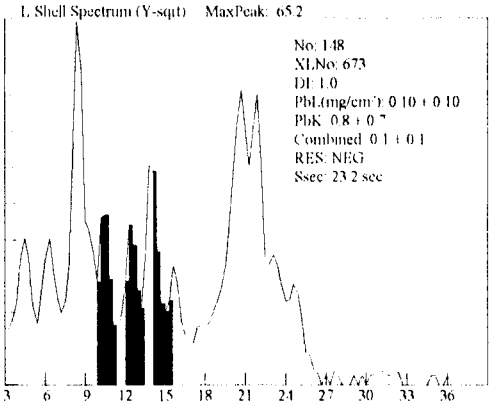

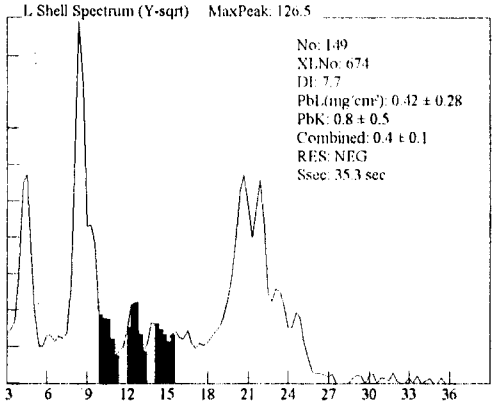

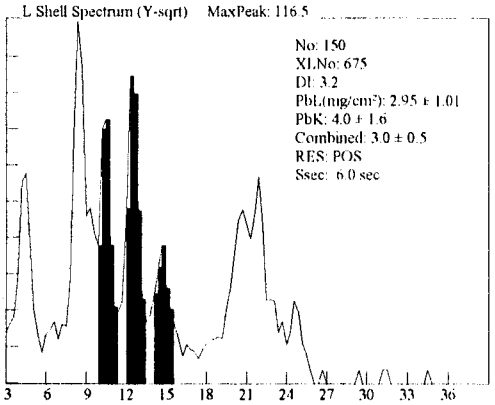

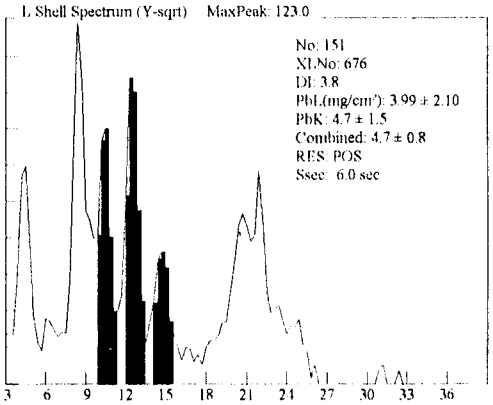

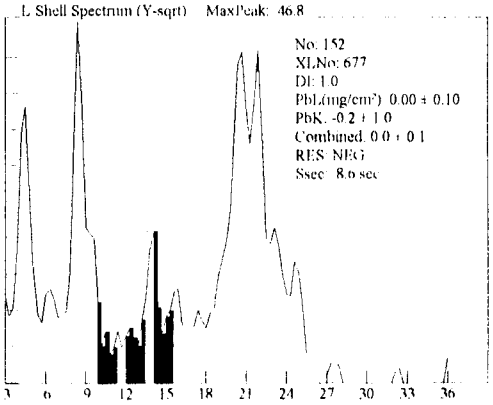

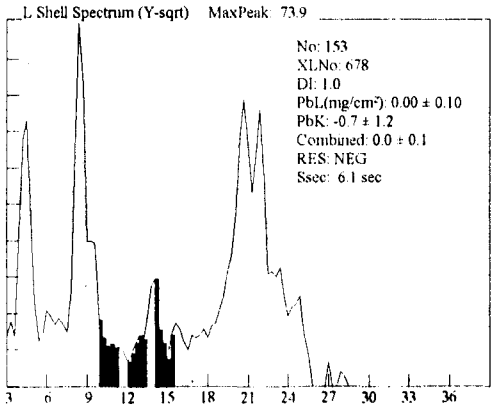

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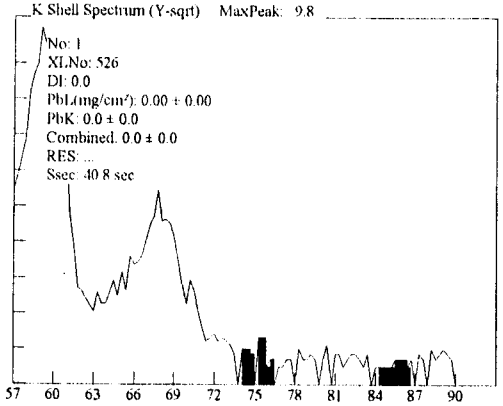

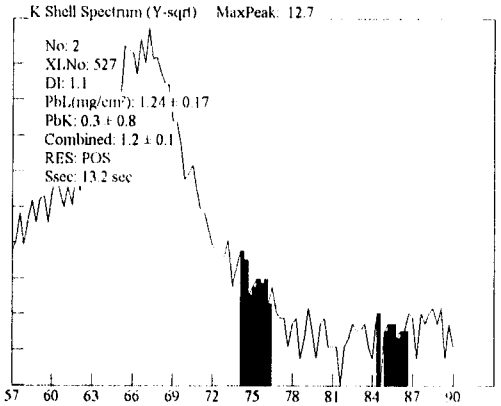

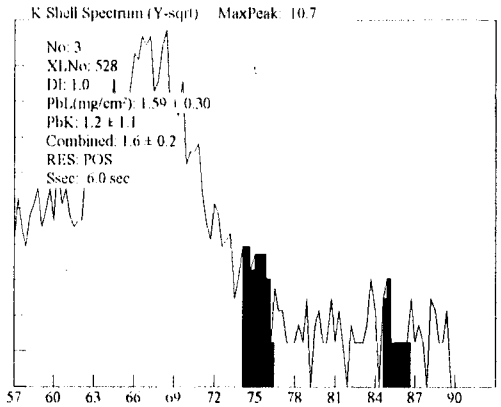

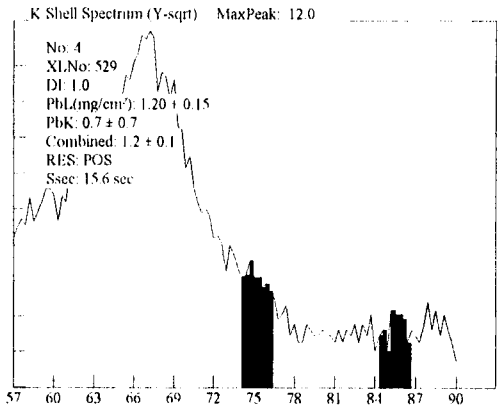

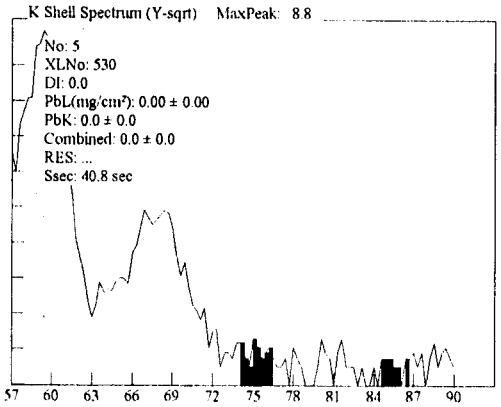

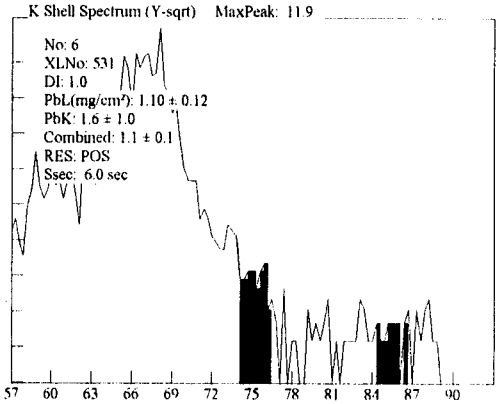

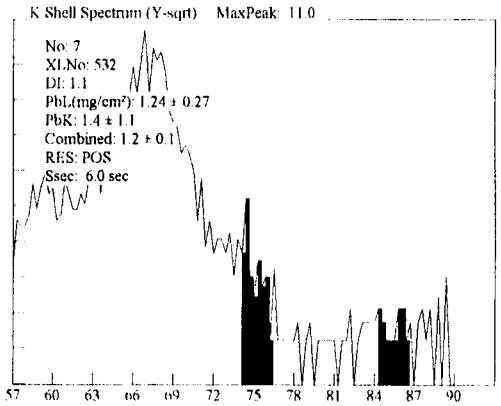

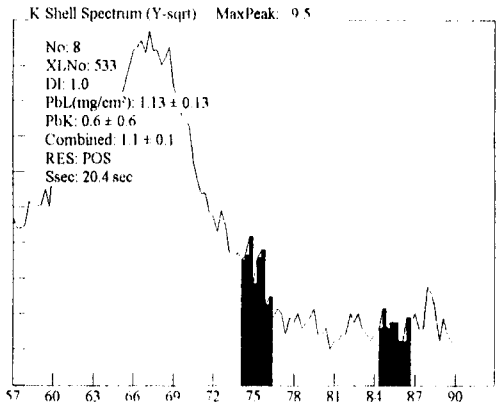

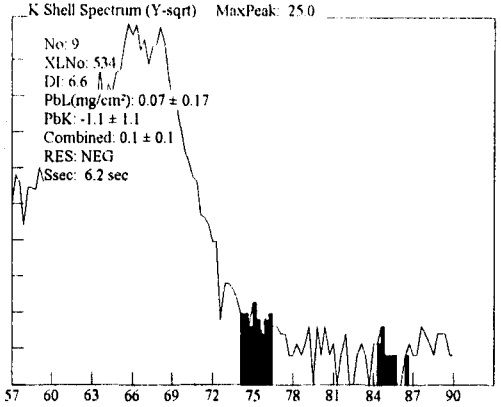

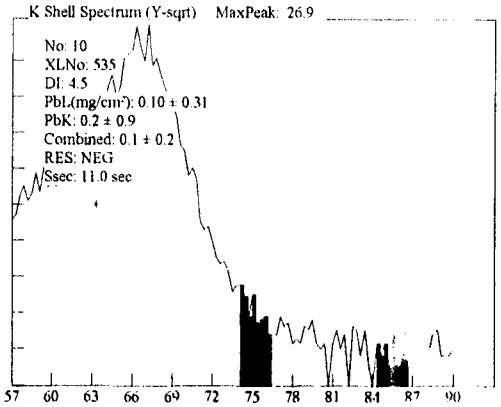

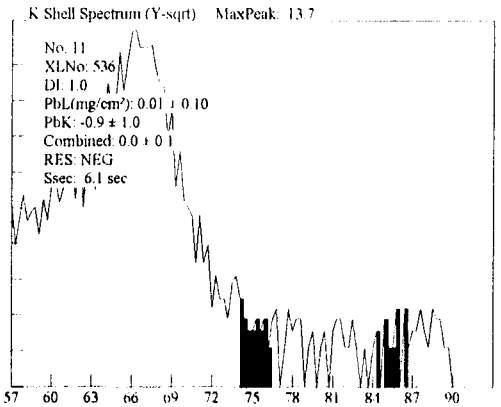

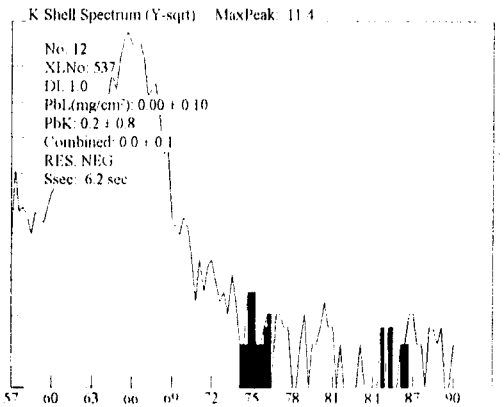

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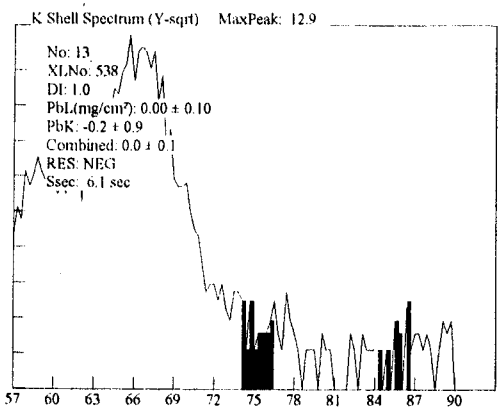

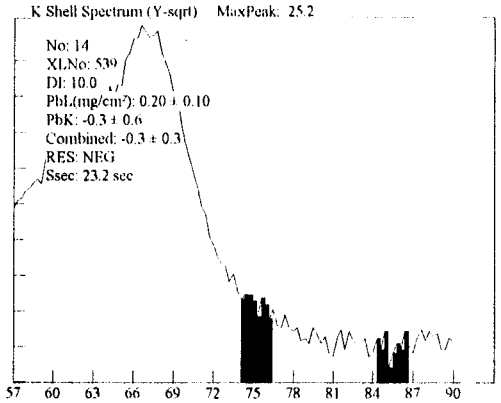

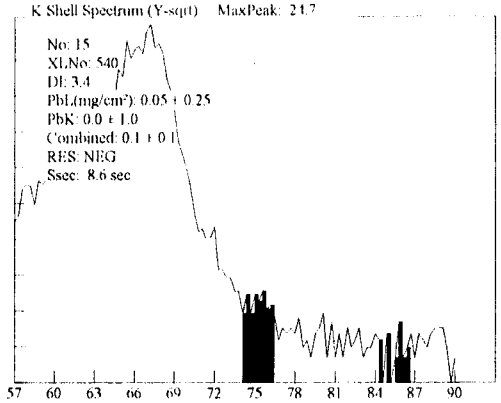

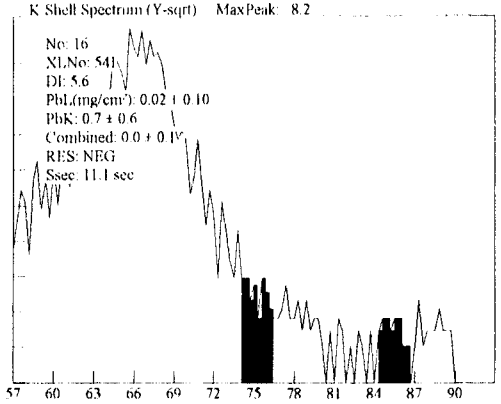

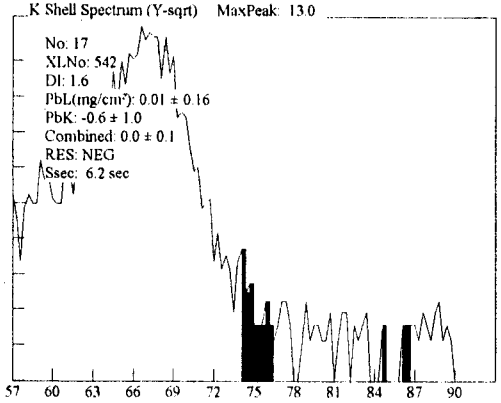

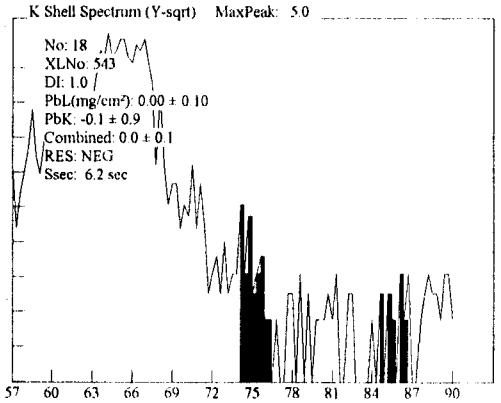

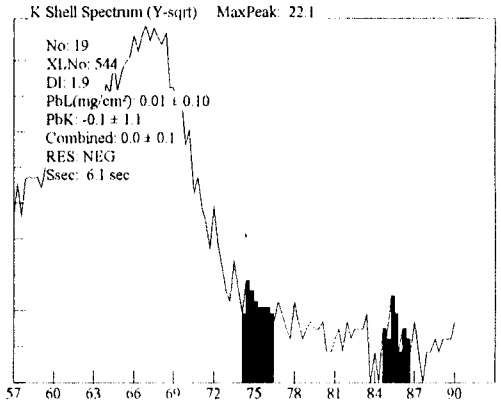

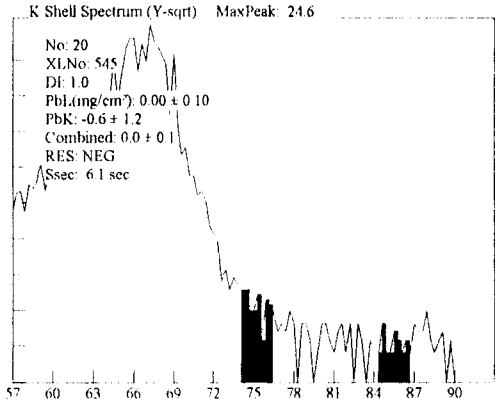

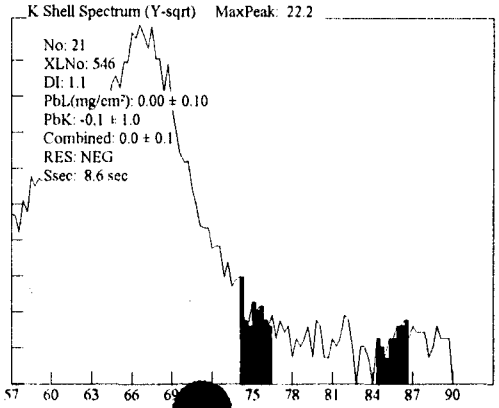

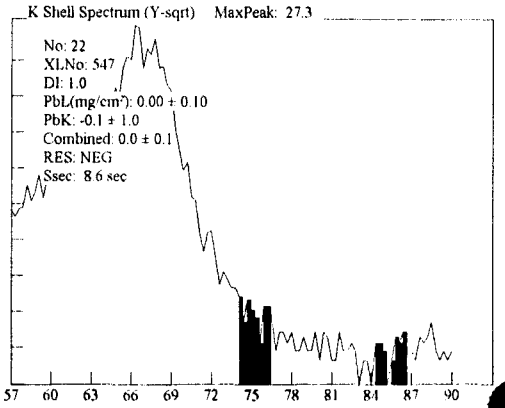

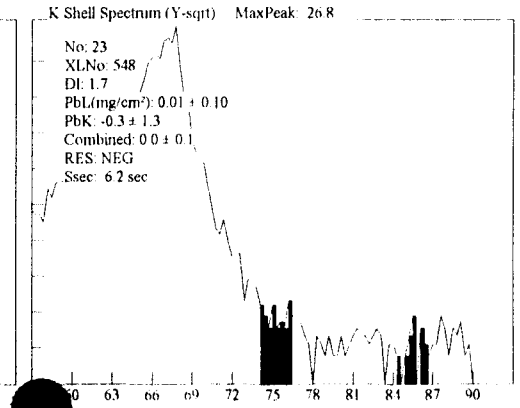

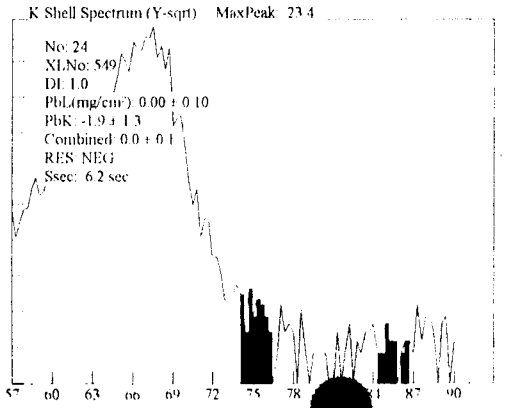

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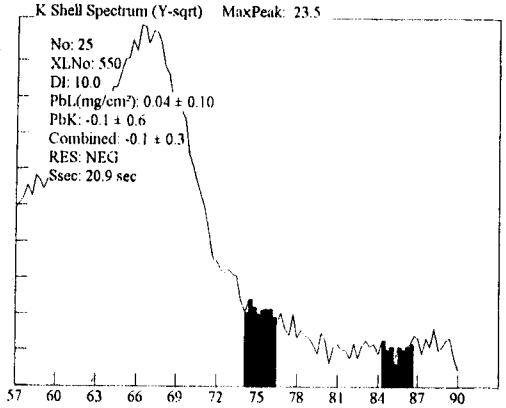

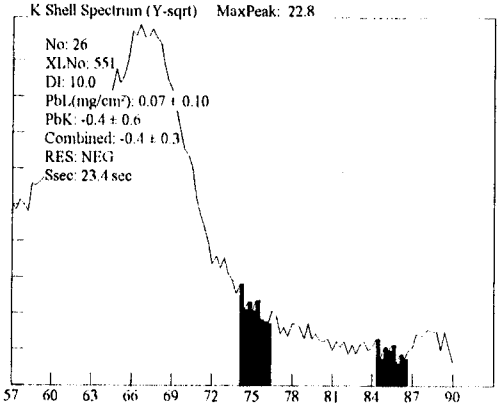

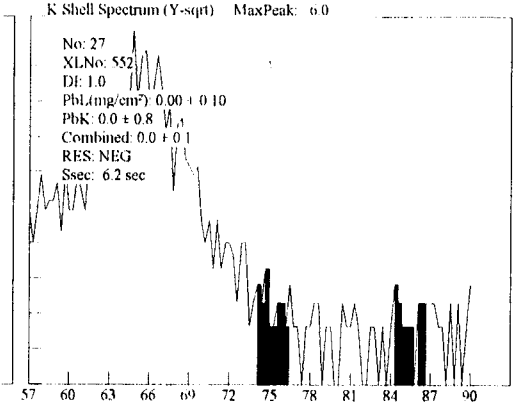

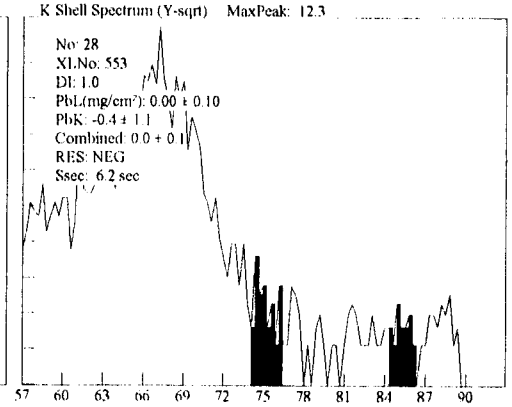

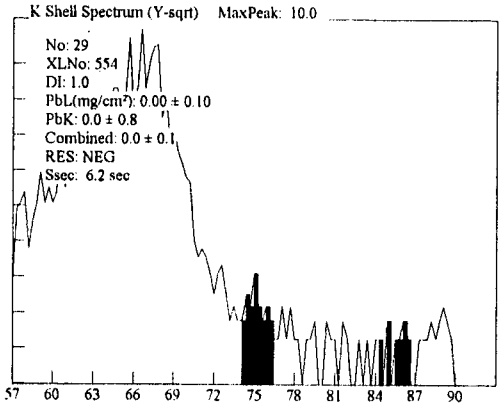

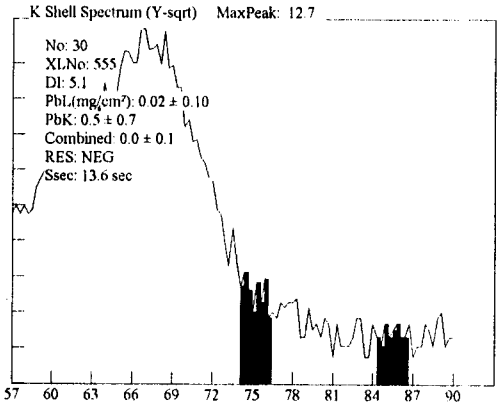

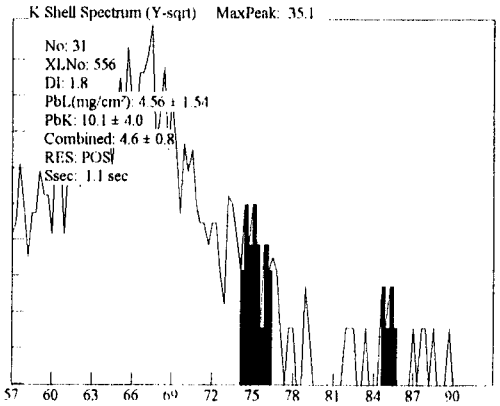

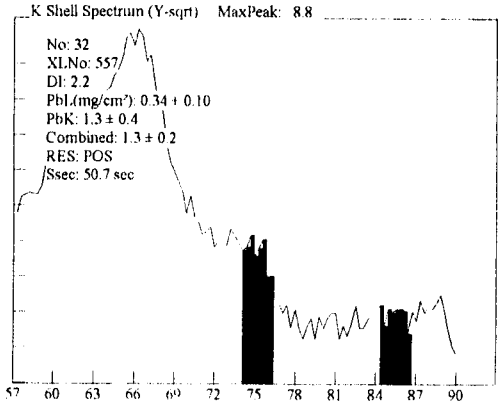

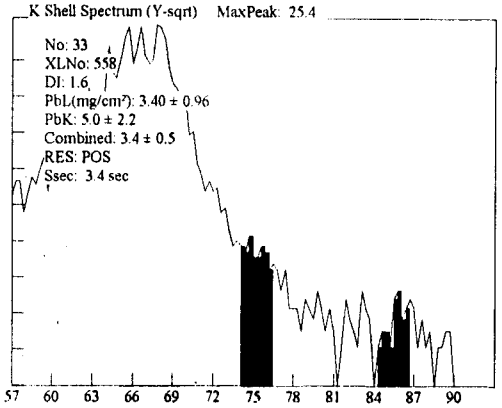

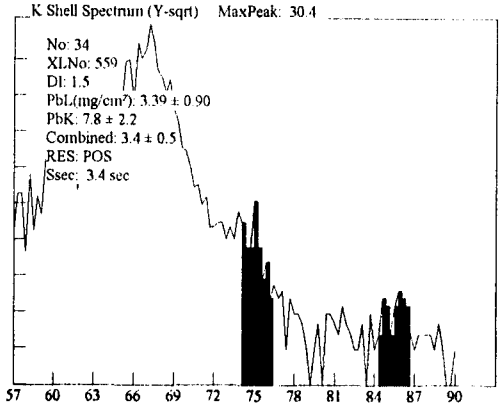

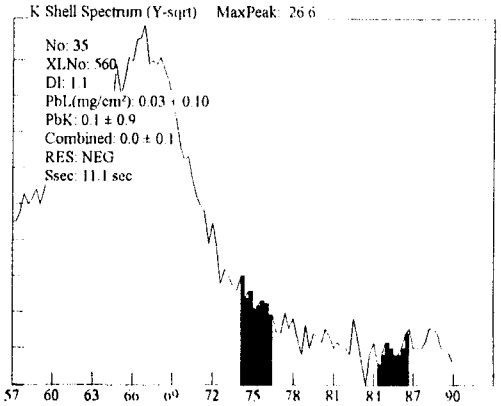

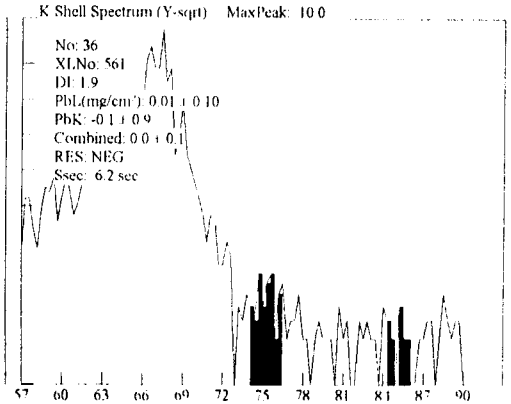

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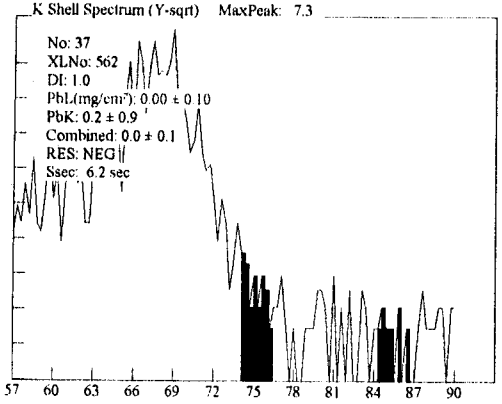

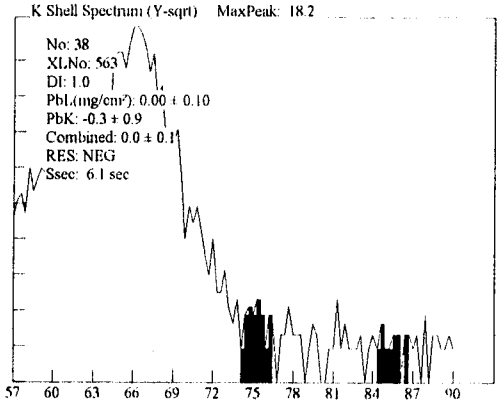

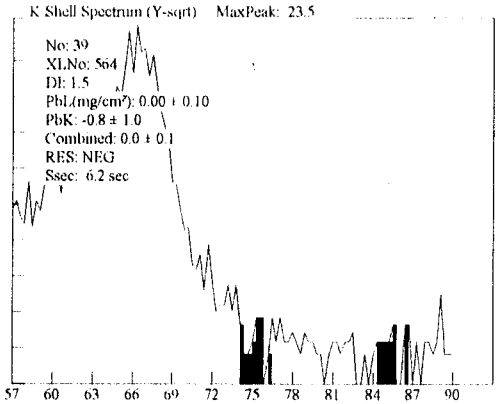

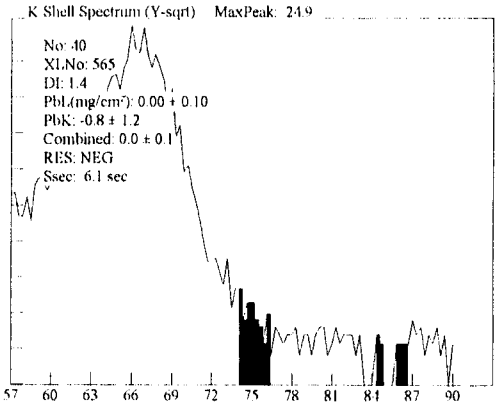

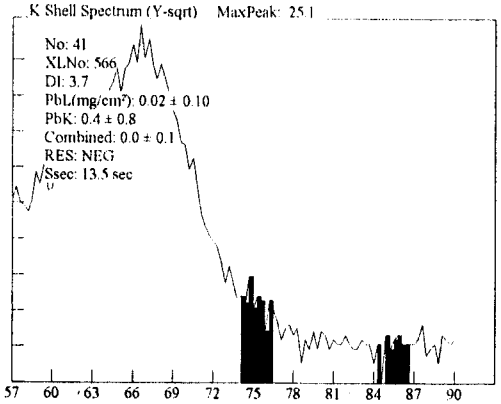

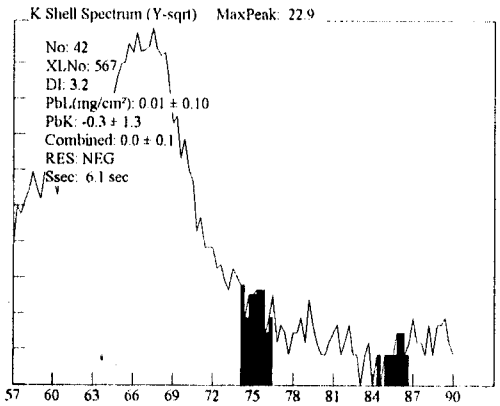

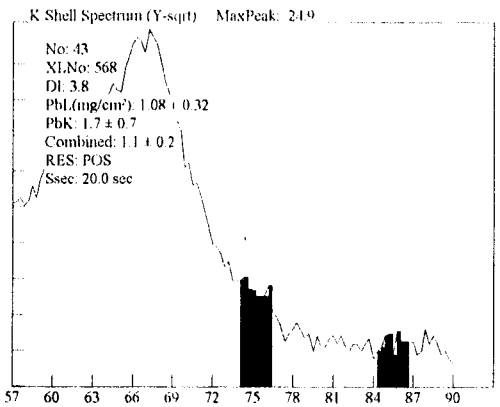

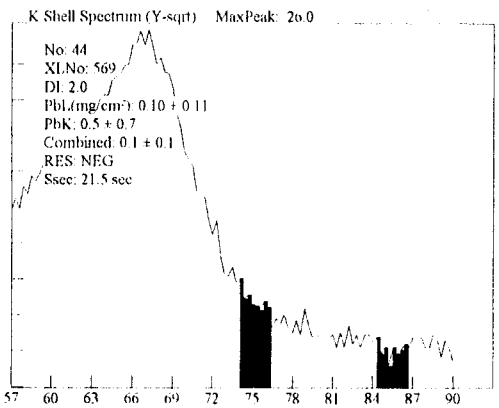

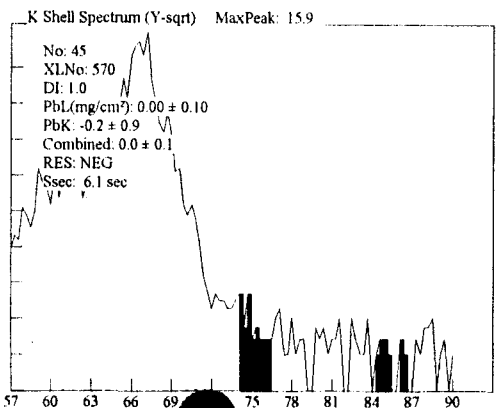

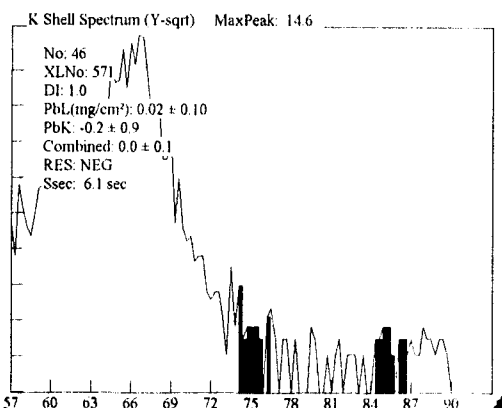

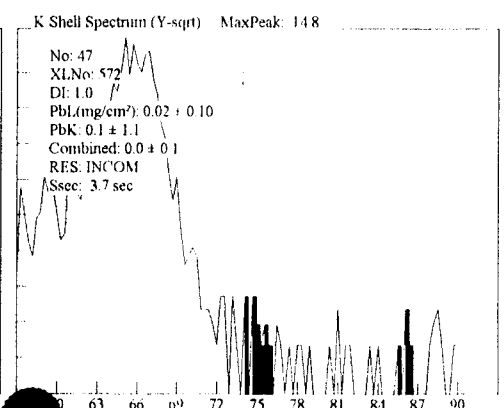

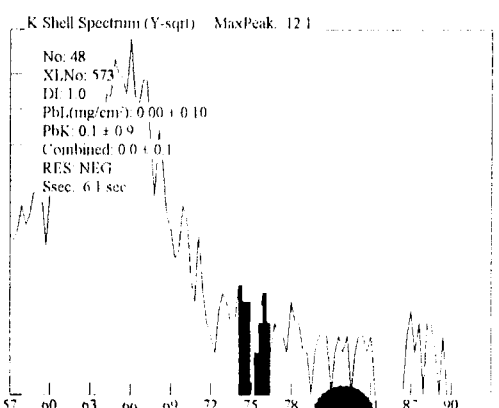

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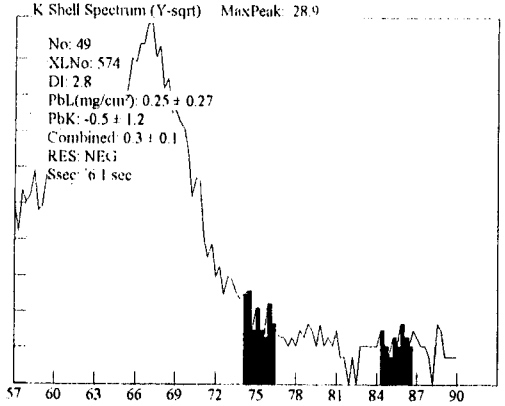

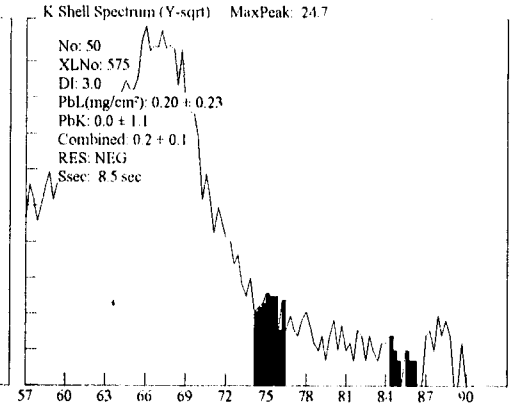

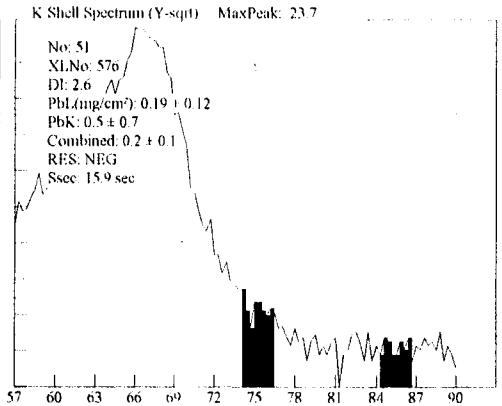

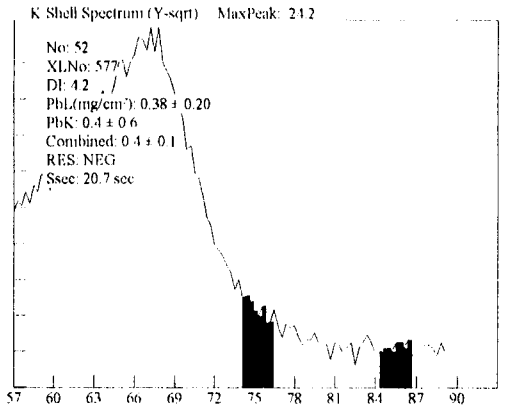

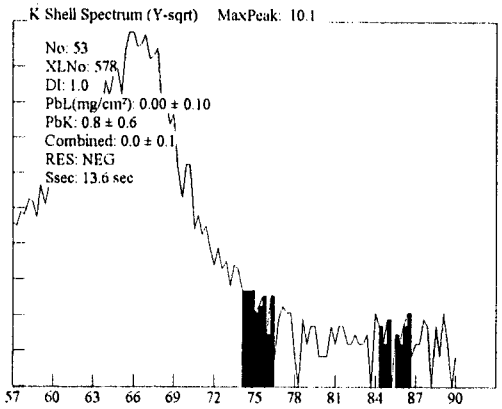

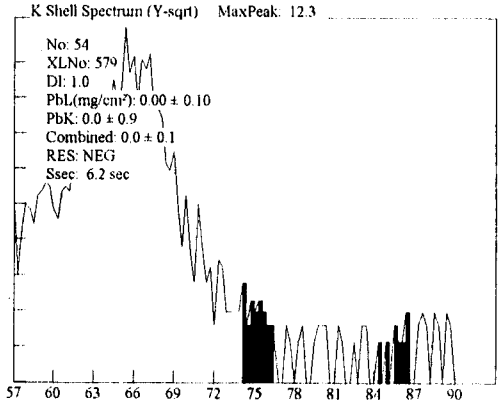

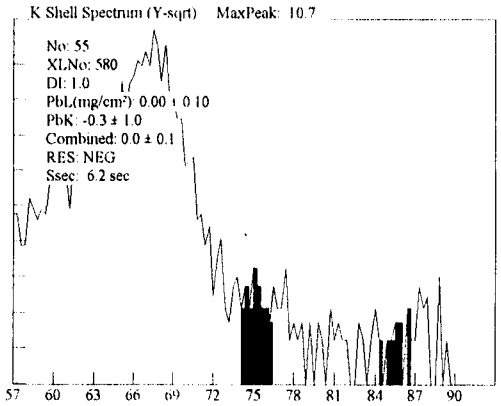

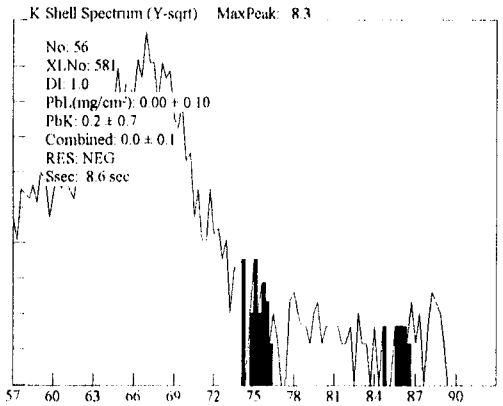

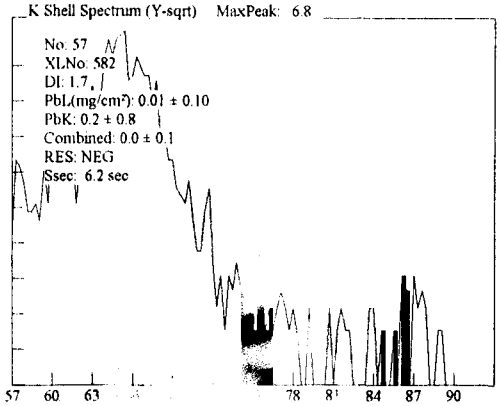

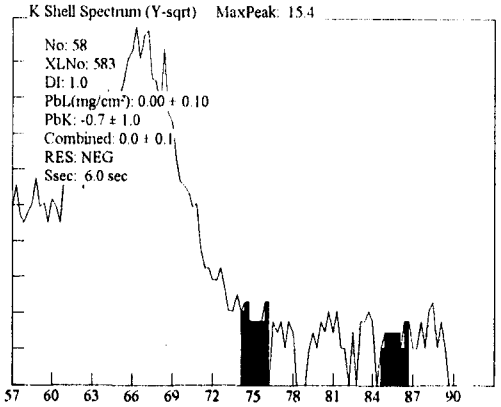

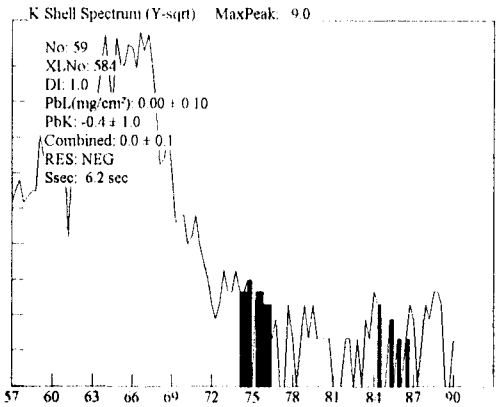

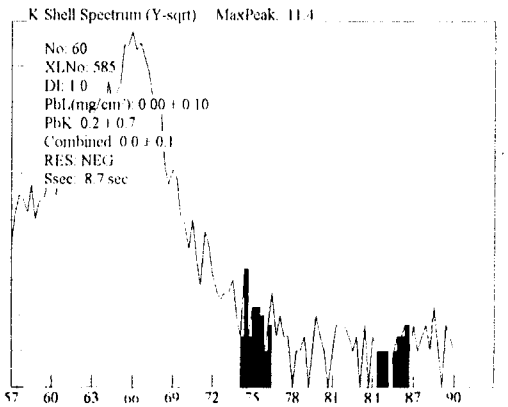

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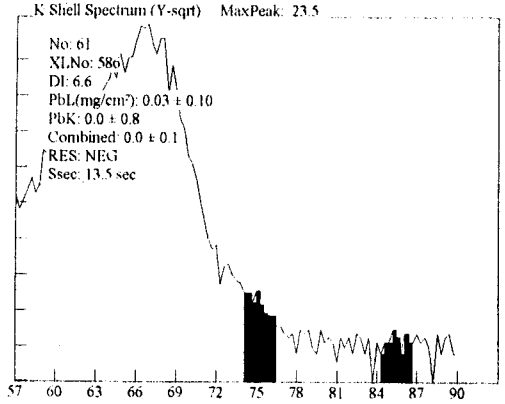

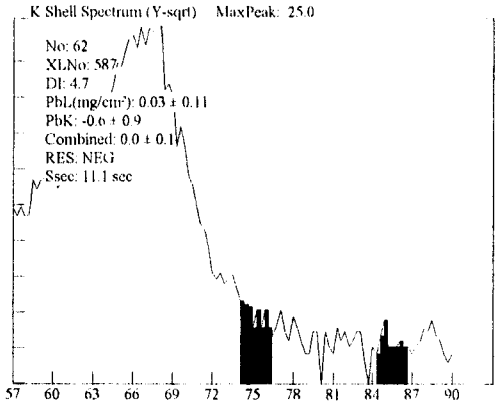

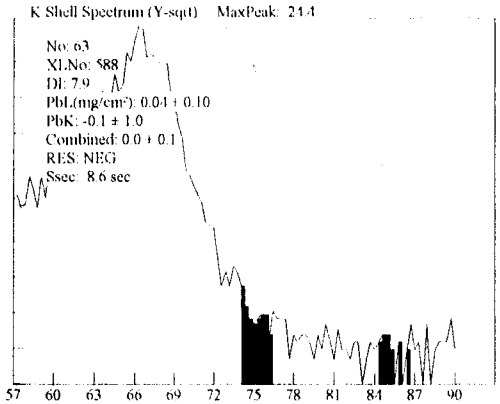

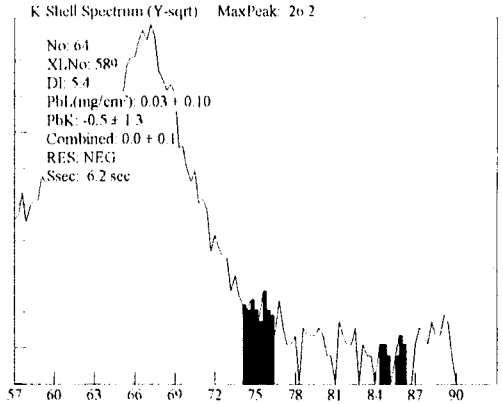

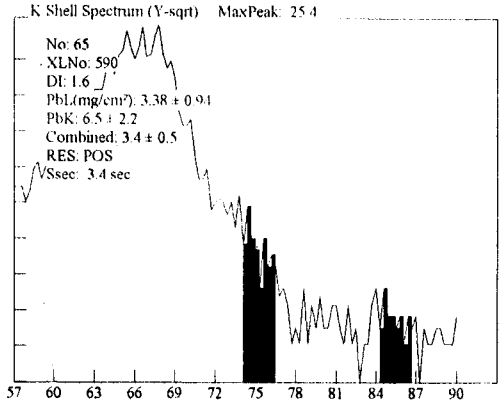

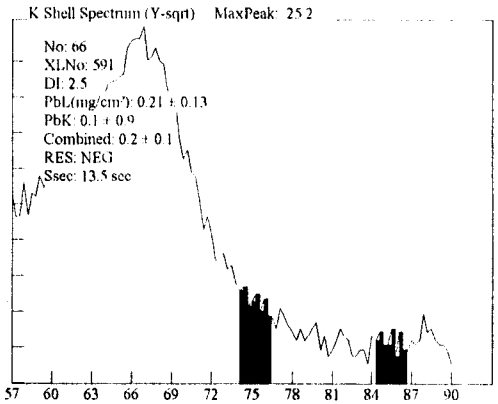

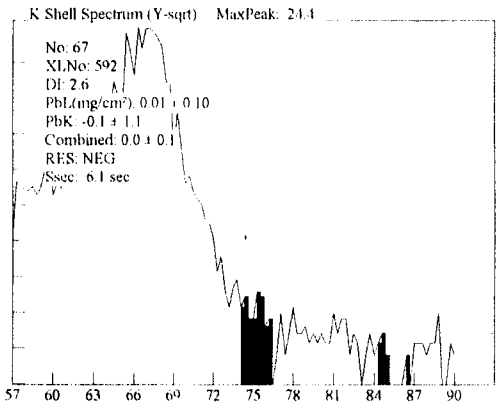

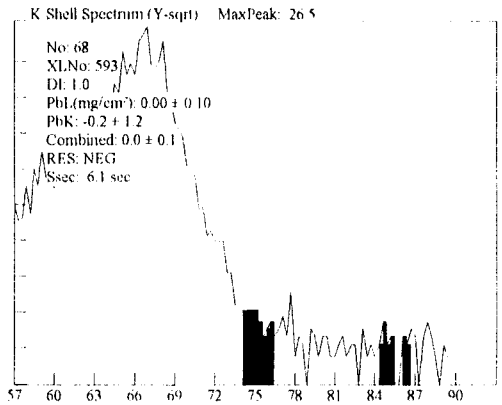

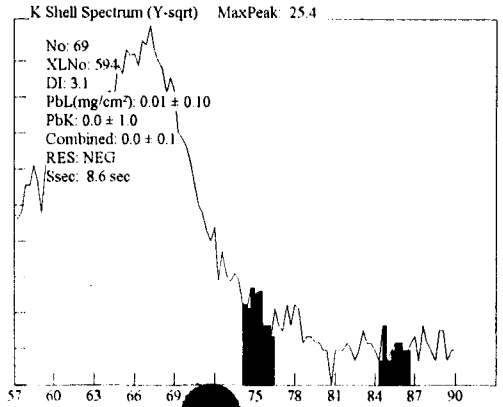

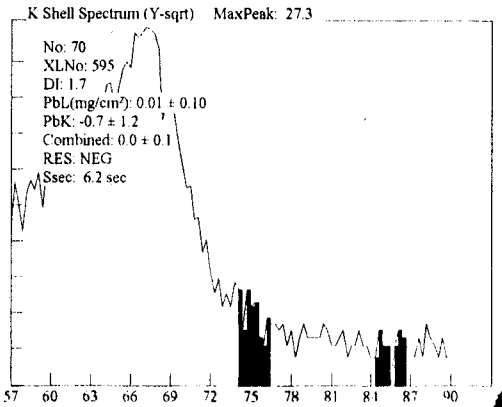

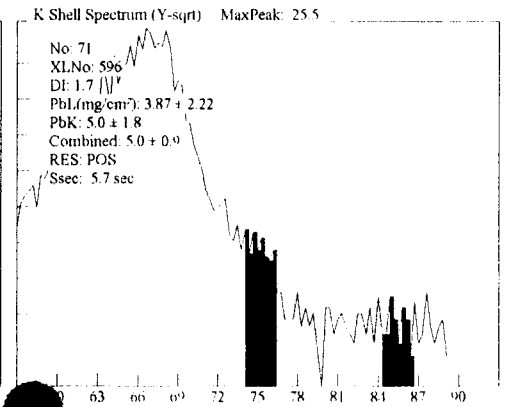

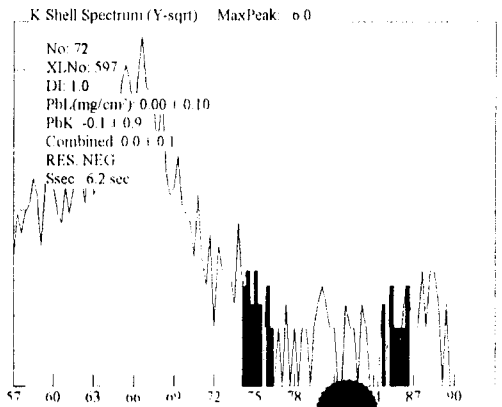

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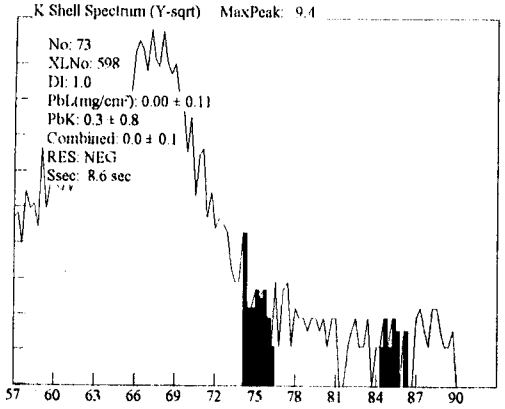

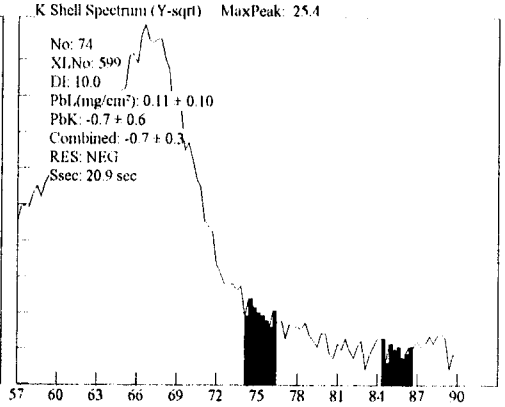

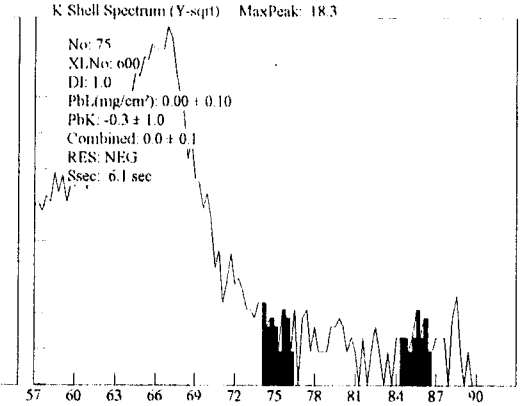

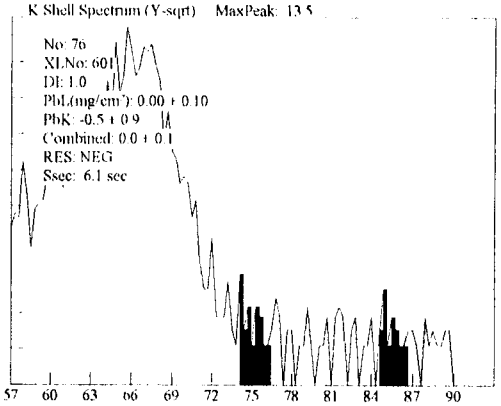

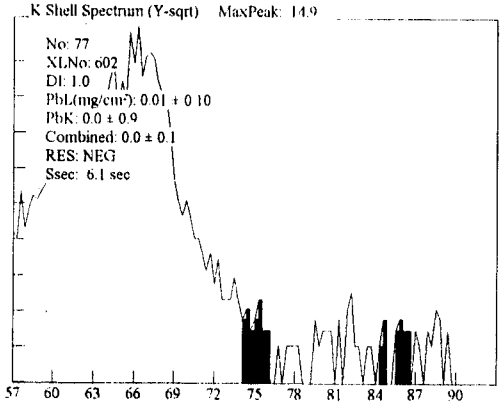

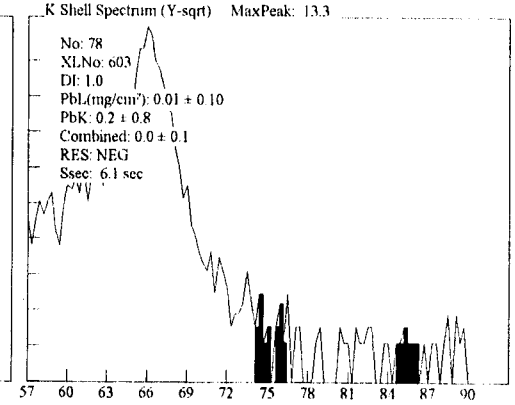

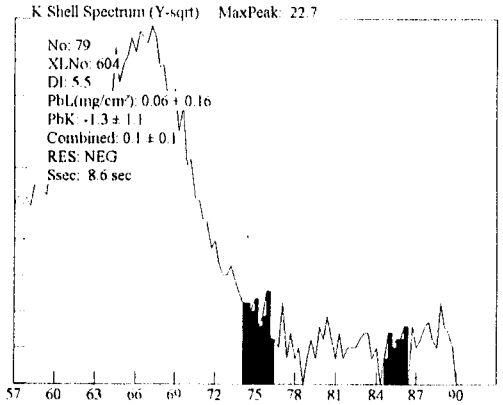

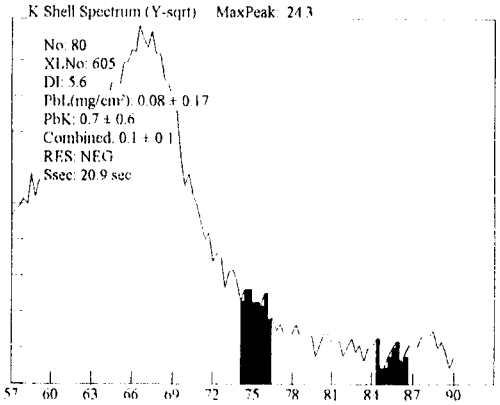

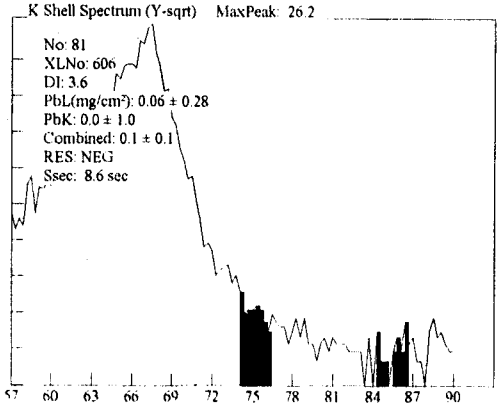

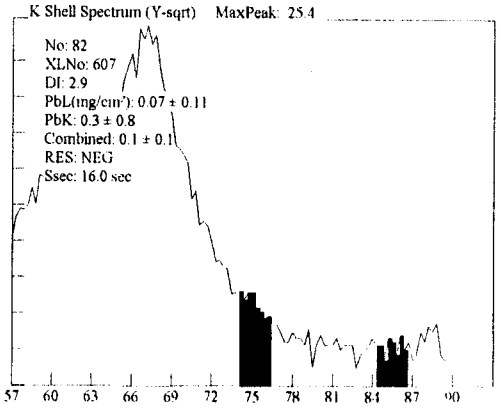

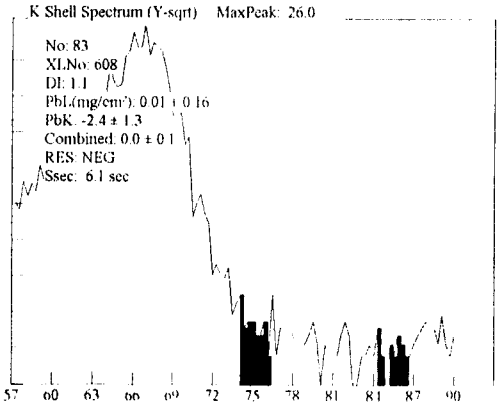

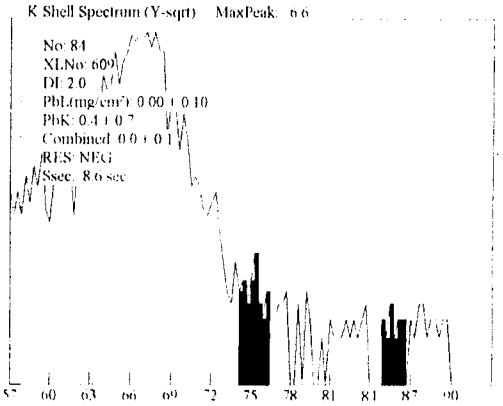

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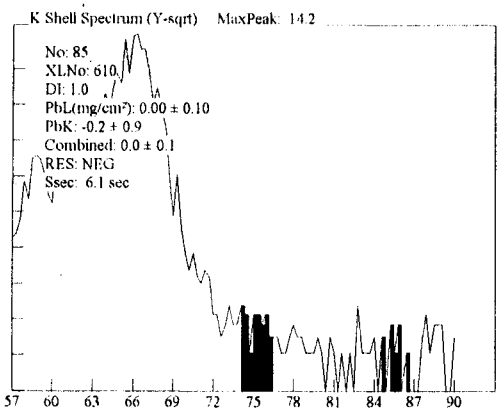

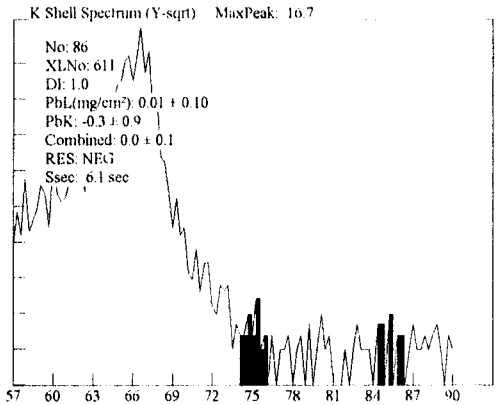

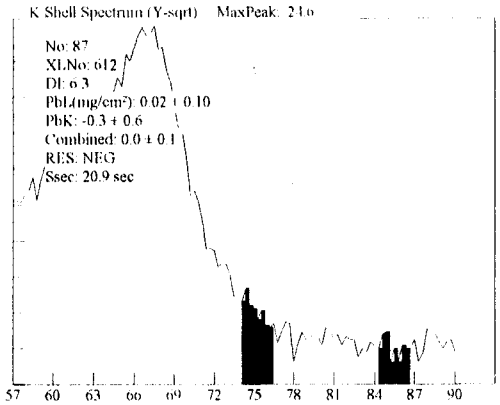

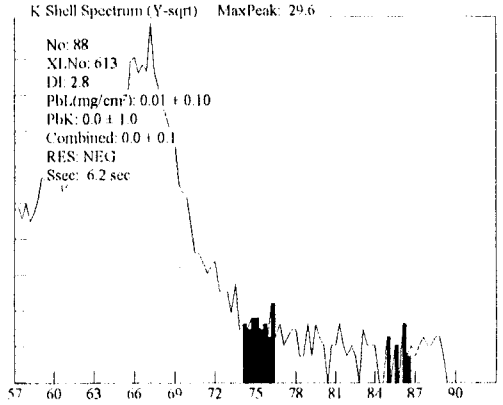

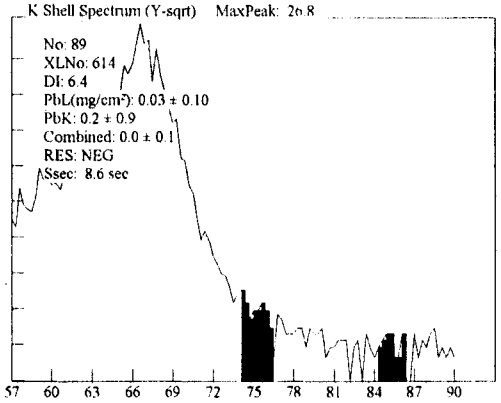

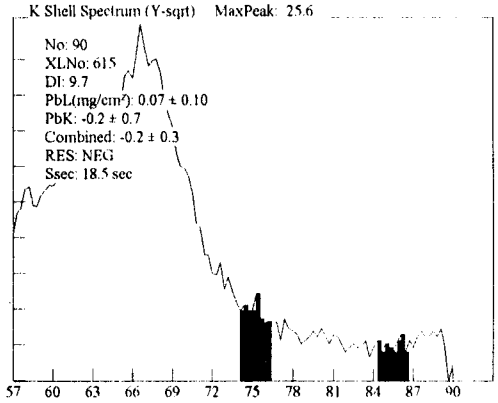

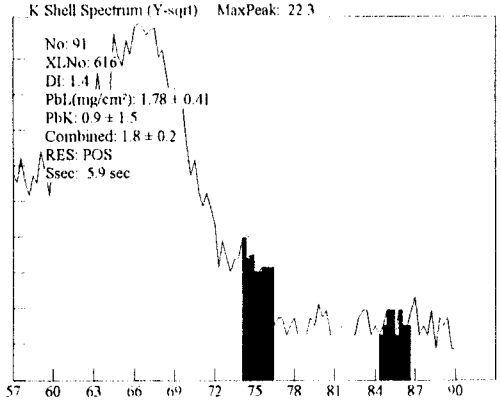

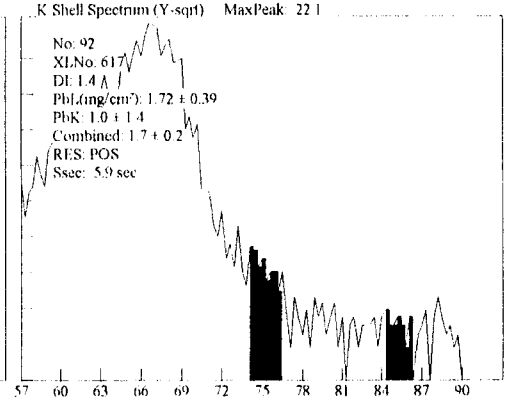

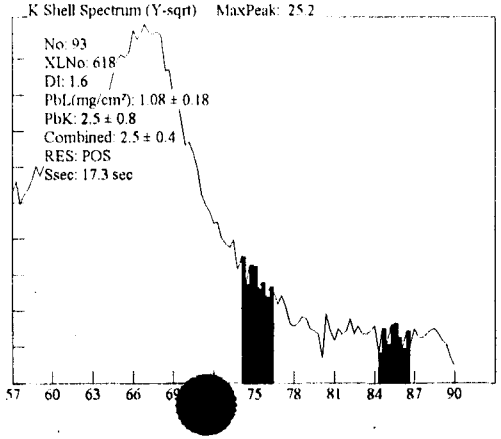

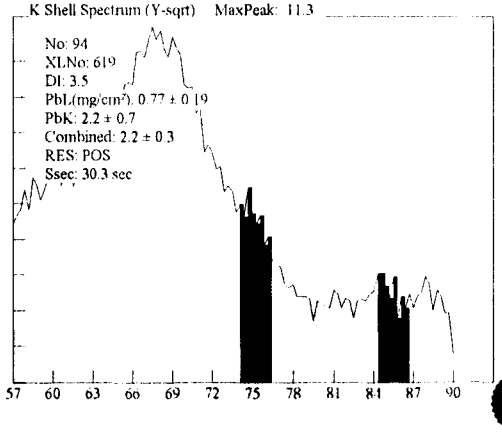

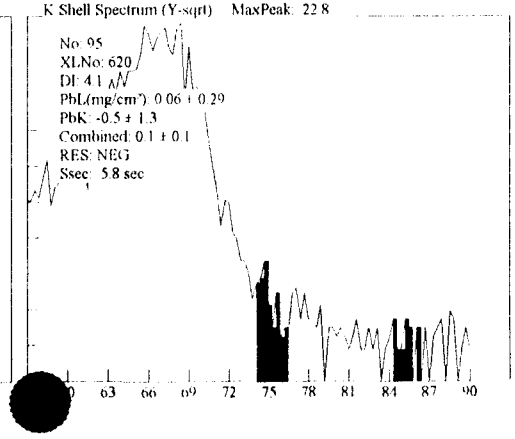

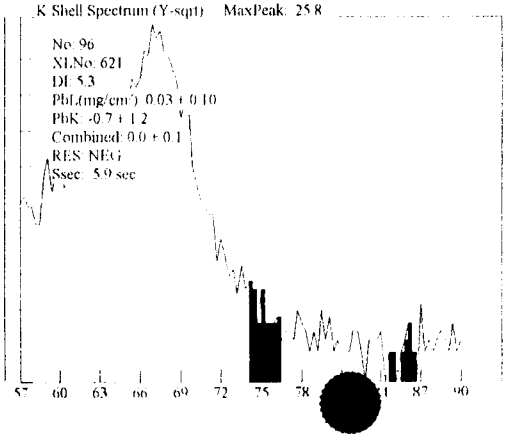

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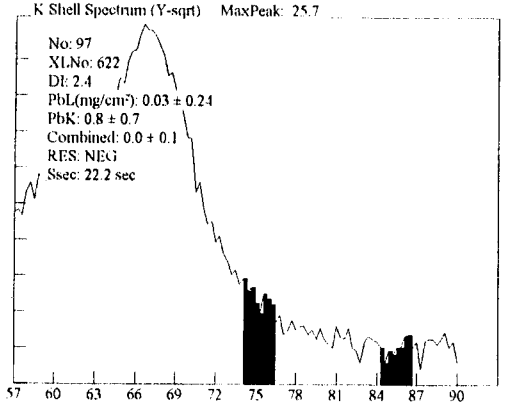

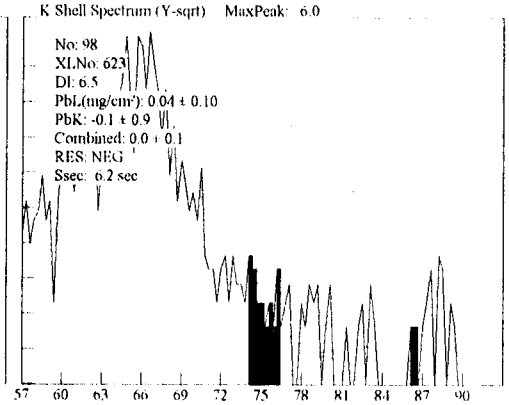

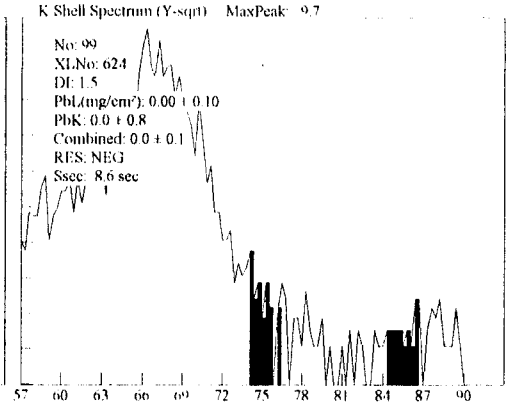

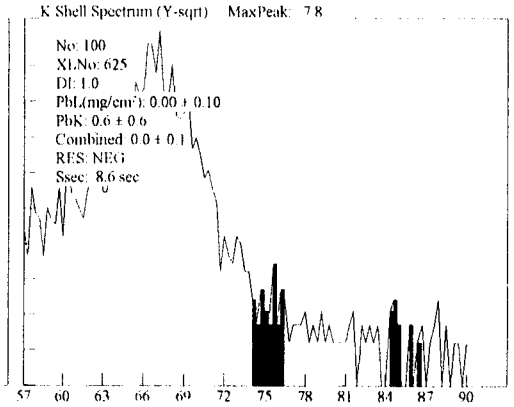

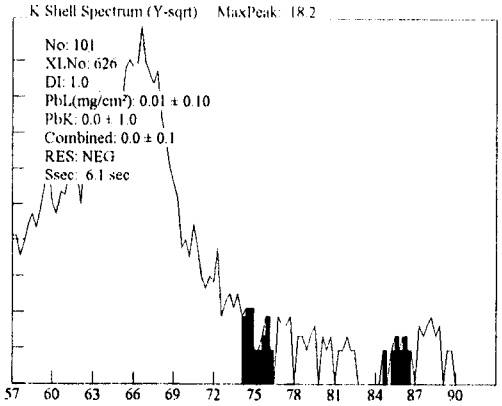

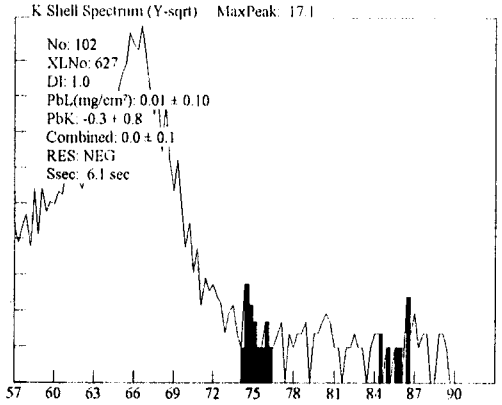

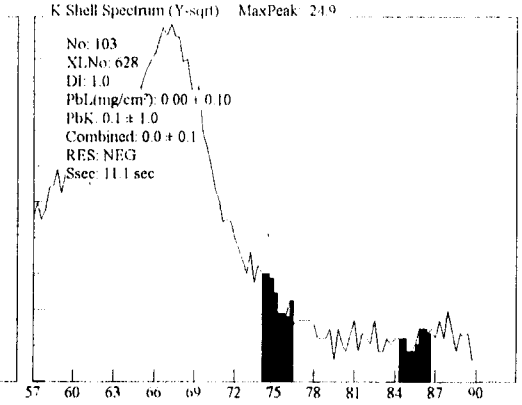

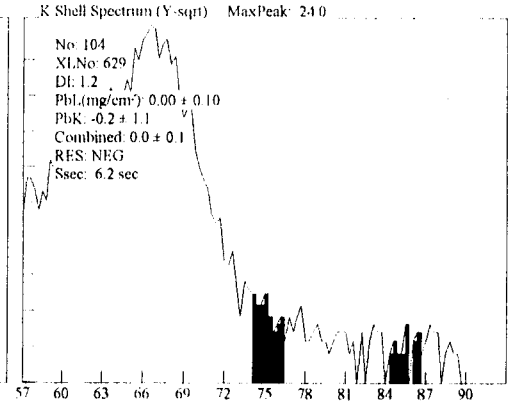

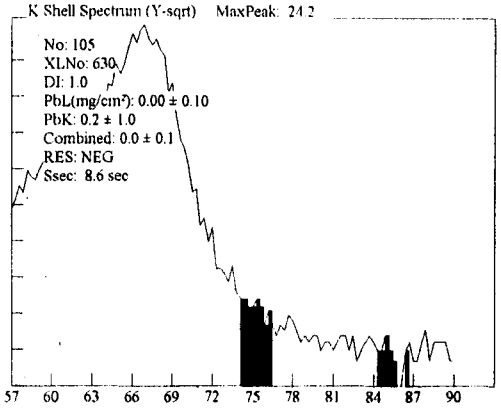

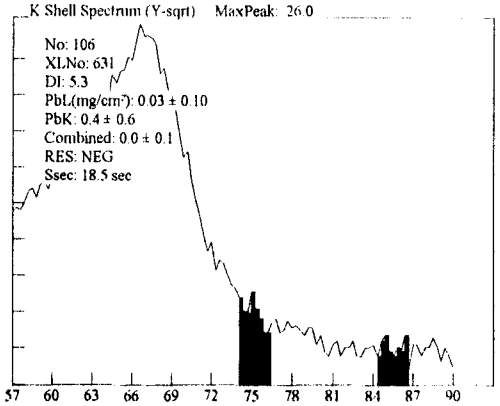

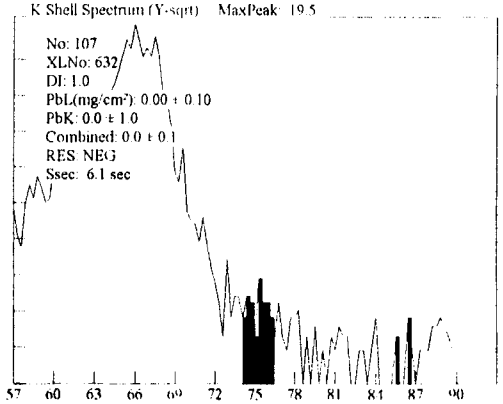

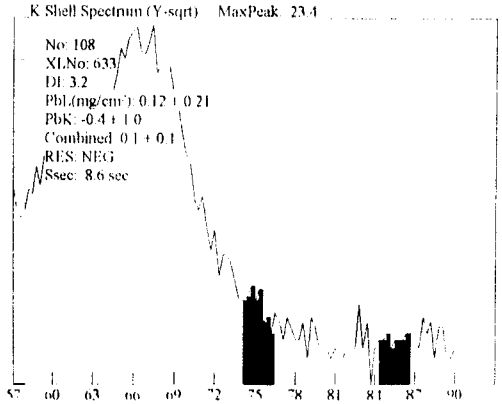

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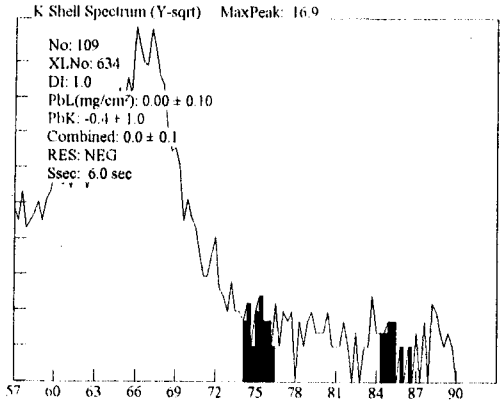

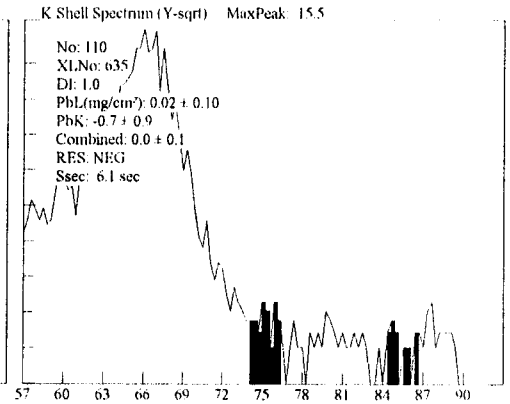

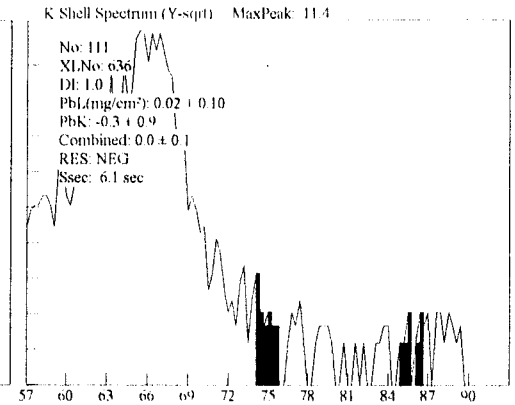

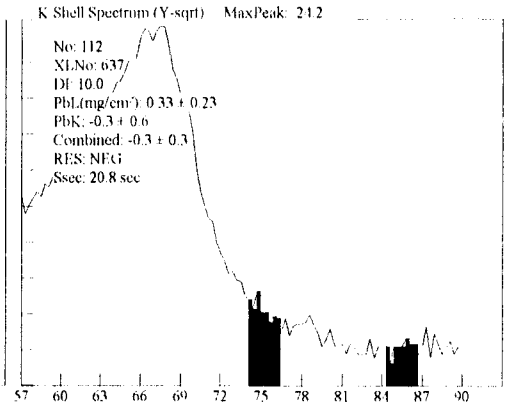

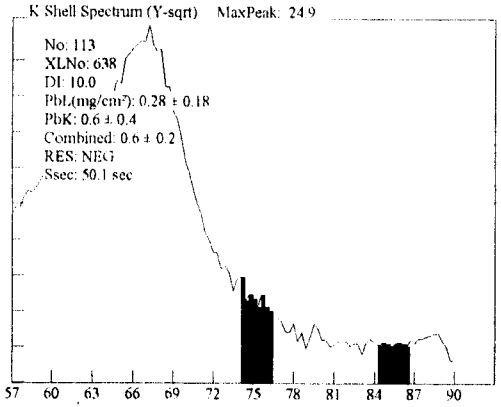

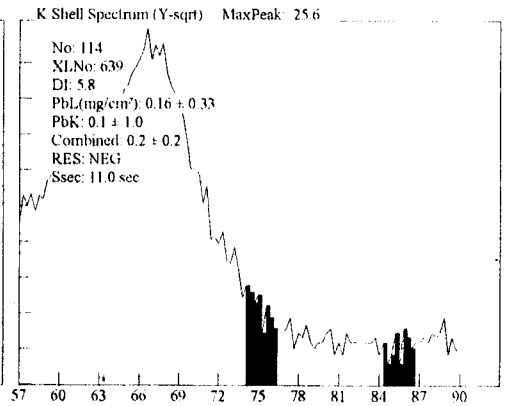

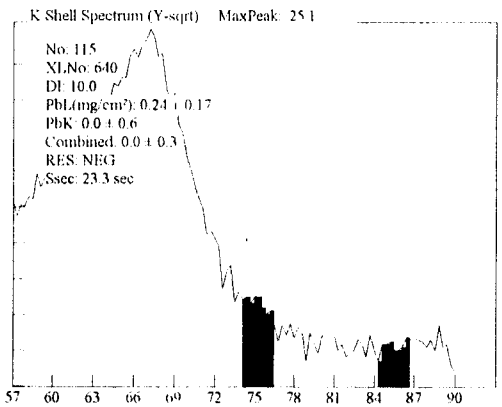

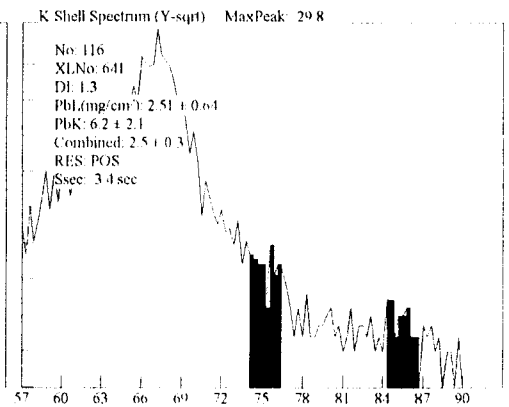

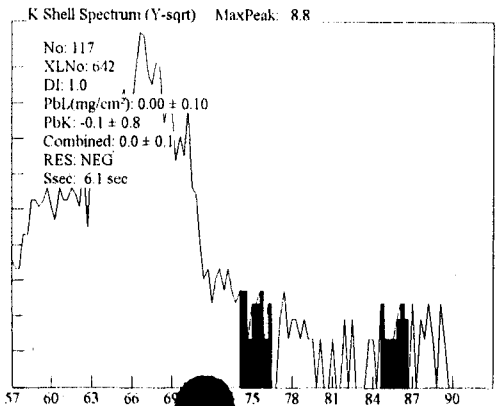

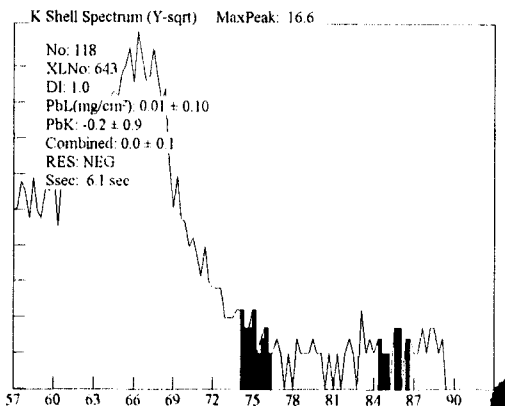

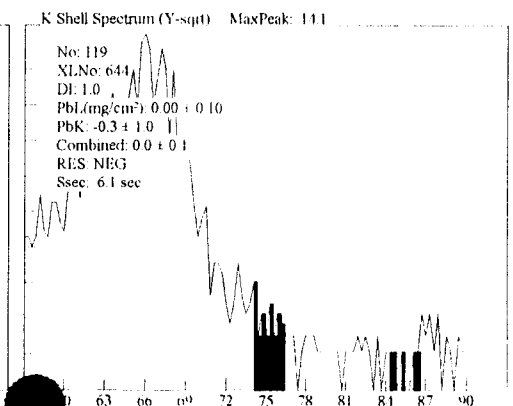

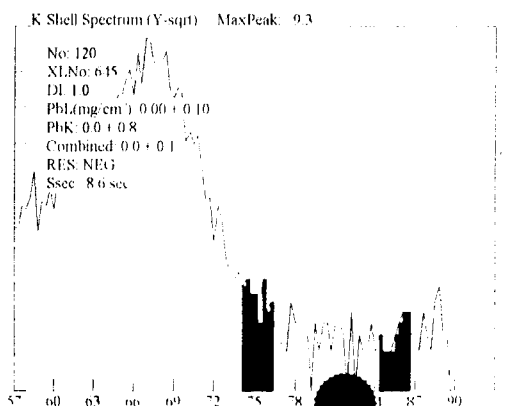

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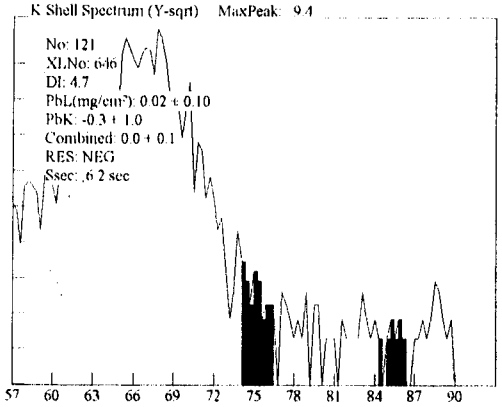

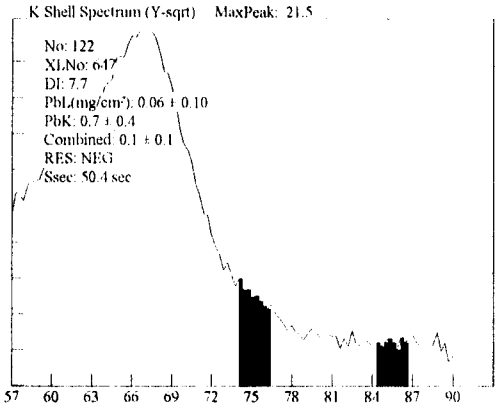

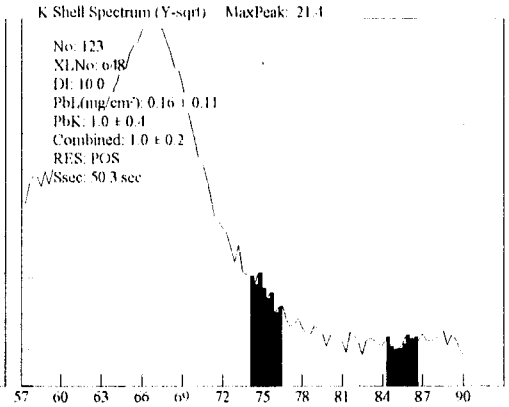

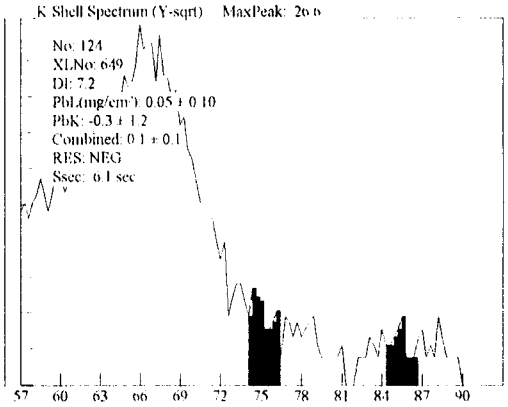

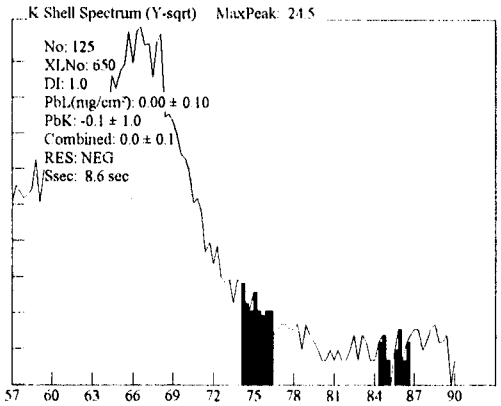

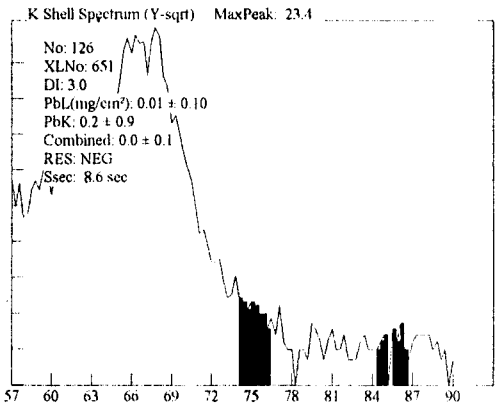

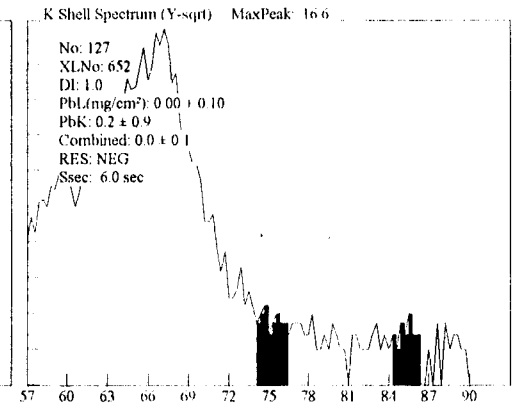

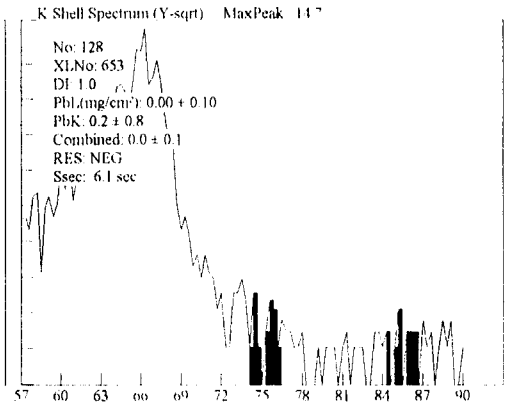

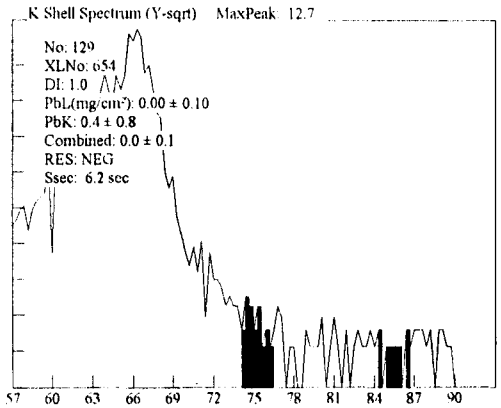

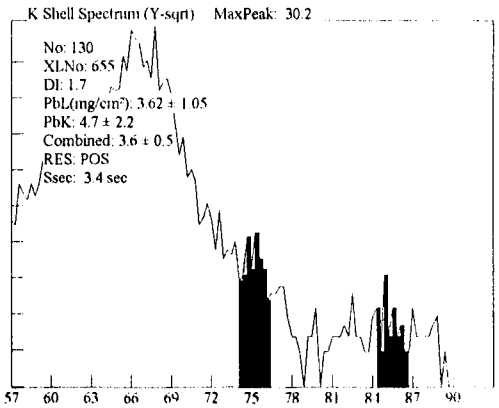

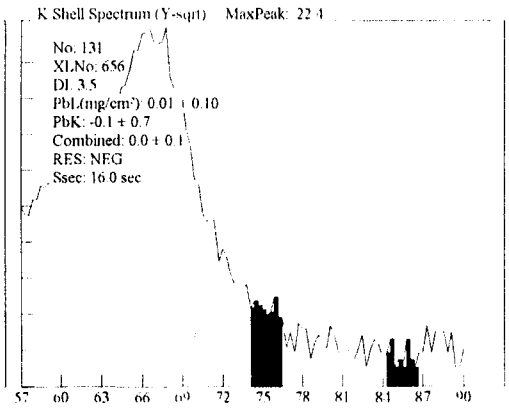

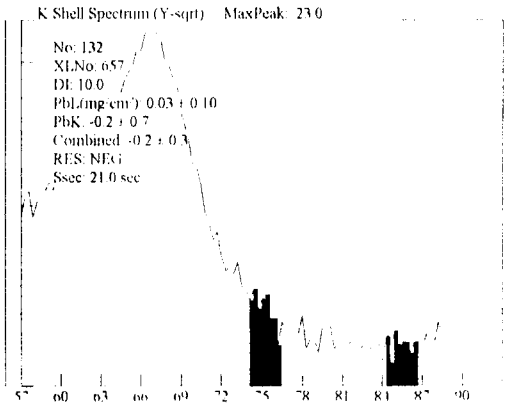

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Site: Ranges (NEG<INC<POS): Device PCS

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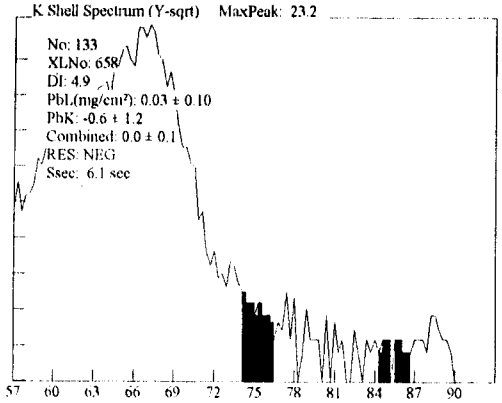

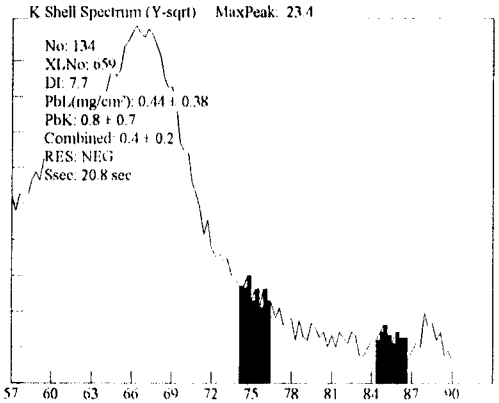

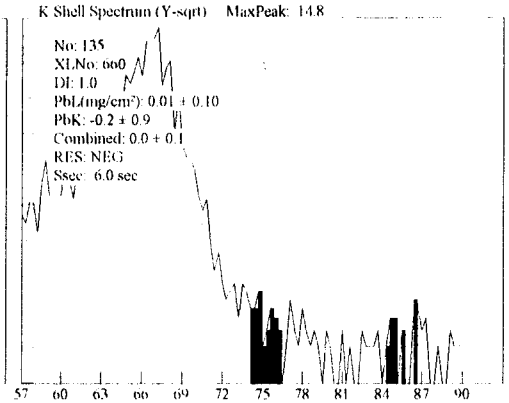

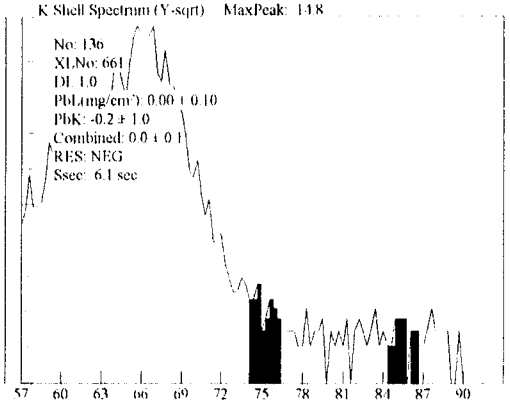

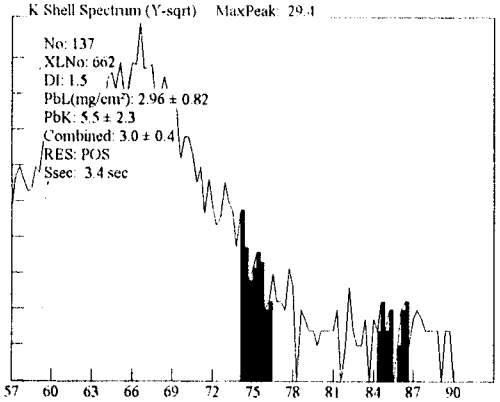

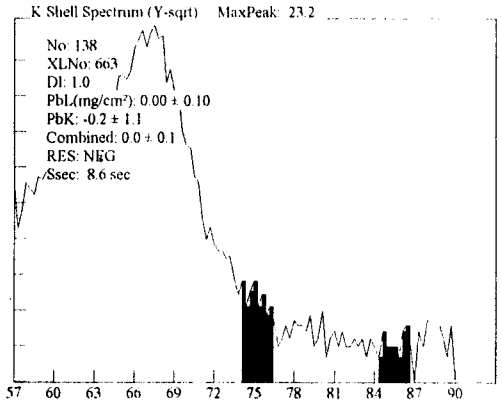

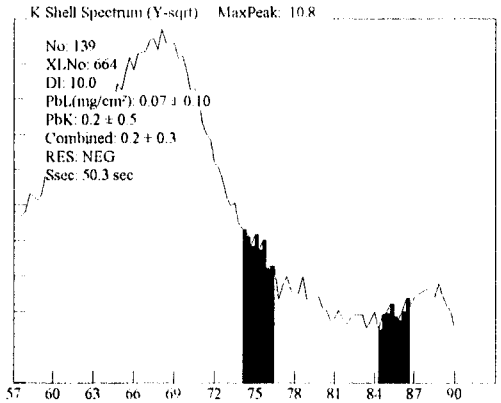

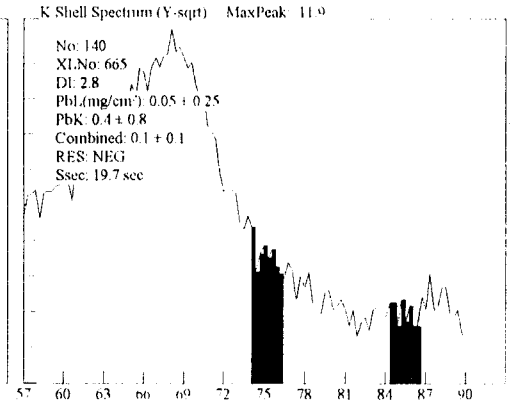

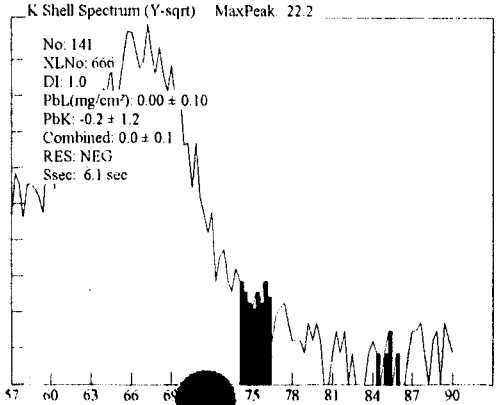

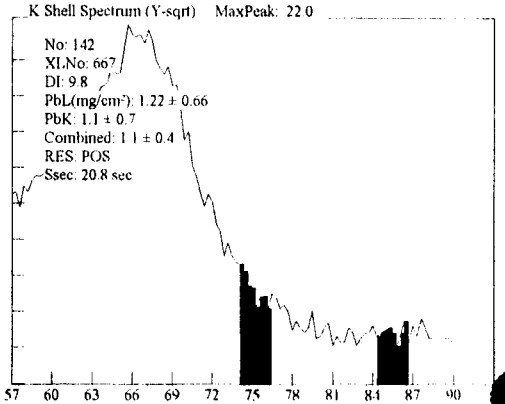

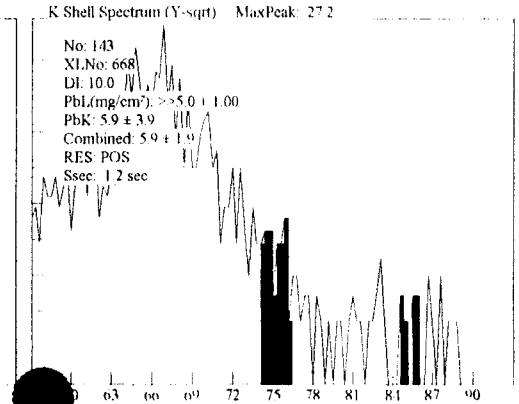

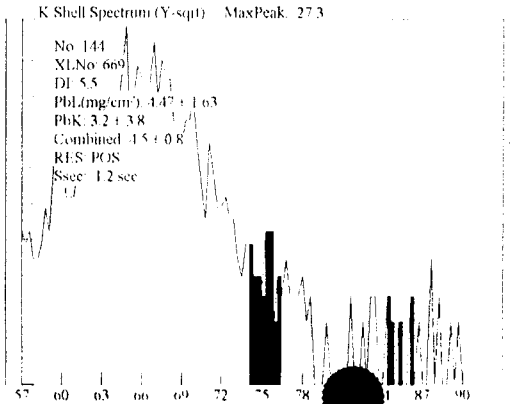

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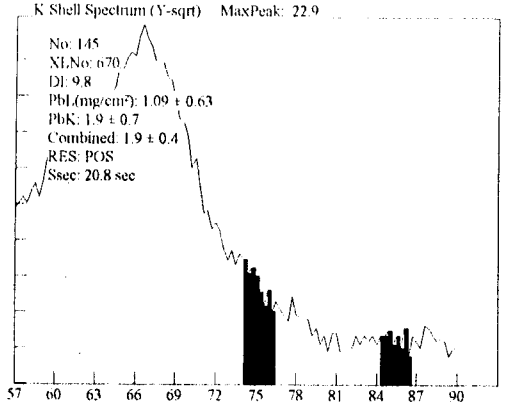

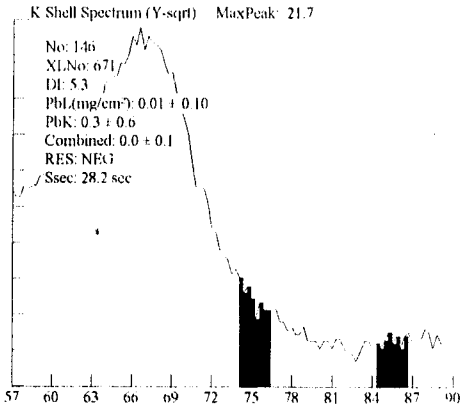

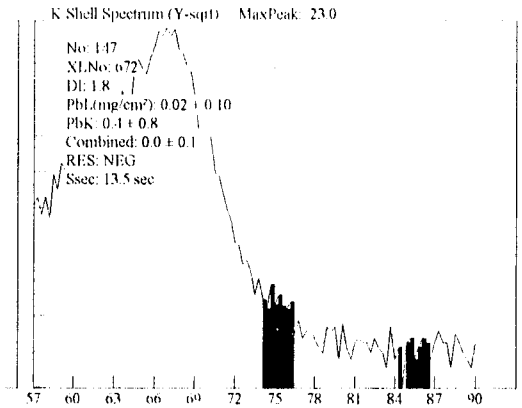

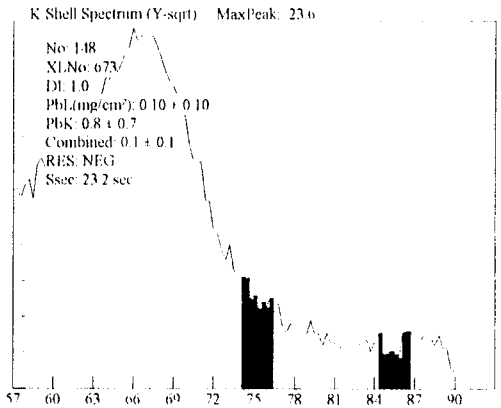

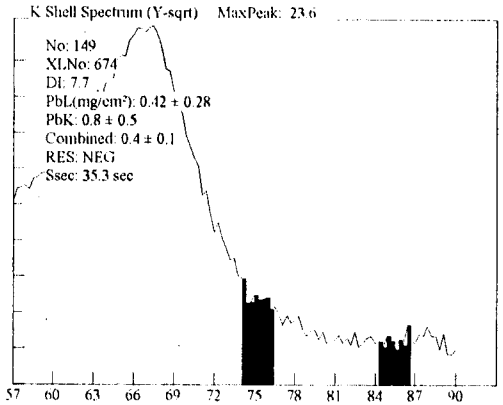

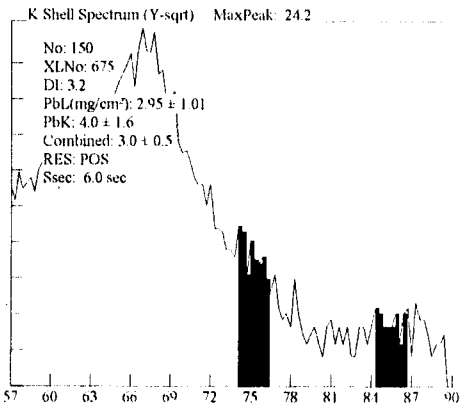

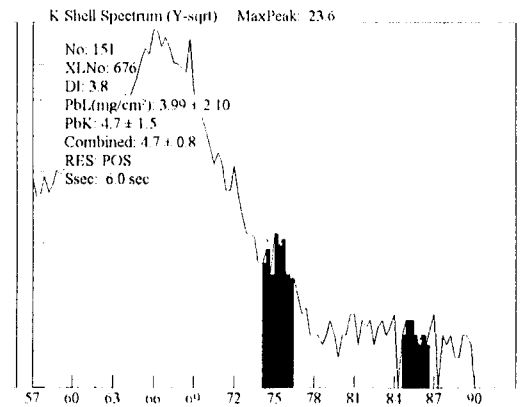

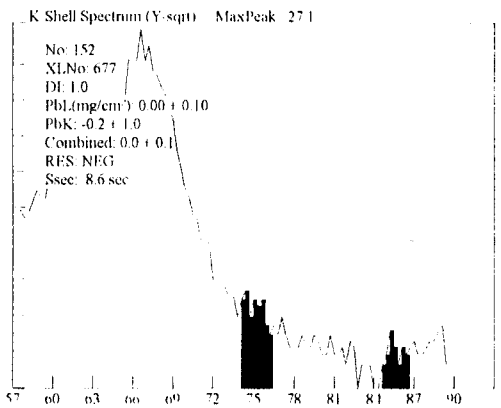

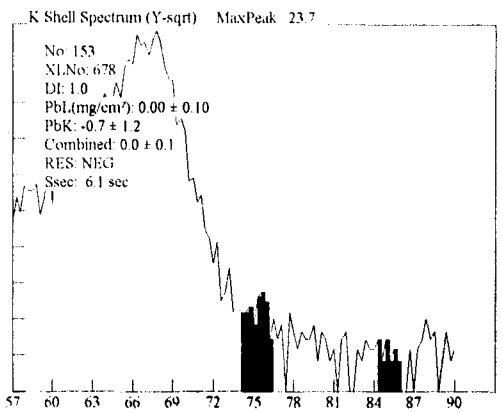

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Serial #XL309-U12673701LY Site: Date: 3/29/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time	Note	Cycle
1	**679**	**3.60 ± 2.50**	**POS**	**3.1 ± 1.6**	**3.6 ± 1.2**	**3.8**	**6.1**	**3/29/100**	**16:22:23**		**1 of 1**
2	**680**	**3.93 ± 2.17**	**POS**	**9.3 ± 3.4**	**9.3 ± 1.7**	**3.8**	**1.2**	**3/29/100**	**16:22:49**		**1 of 1**
3	681	0.00 ± 0.10	NEG	0.9 ± 0.6	0.0 ± 0.1	1.0	20.8	3/29/100	16:23:12		1 of 1
4	**682**	**>>5.0 ± 1.00**	**POS**	**3.8 ± 3.2**	**3.8 ± 1.6**	**9.7**	**1.2**	**3/29/100**	**16:25:25**		**1 of 1**
5	**683**	**>>5.0 ± 1.00**	**POS**	**9.8 ± 3.9**	**9.8 ± 1.9**	**5.1**	**1.2**	**3/29/100**	**16:27:47**		**1 of 1**
6	684	0.19 ± 0.26	NEG	-1.0 ± 0.9	0.2 ± 0.1	4.1	11.0	3/29/100	16:28:48		1 of 1
7	685	0.32 ± 0.24	NEG	0.1 ± 0.8	0.3 ± 0.1	3.8	13.4	3/29/100	16:29:53		1 of 1
8	686	0.40 ± 0.11	NEG	0.8 ± 0.6	0.4 ± 0.1	2.2	23.2	3/29/100	16:30:41		1 of 1
9	687	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/29/100	16:32:12		1 of 1
10	688	0.01 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.9	6.2	3/29/100	16:32:31		1 of 1
11	689	0.03 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	6.0	3/29/100	16:33:21		1 of 1
12	690	0.04 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.0	3/29/100	16:34:37		1 of 1
13	691	0.00 ± 0.10	NEG	-0.9 ± 1.6	0.0 ± 0.1	1.0	6.0	3/29/100	16:34:57		1 of 1
14	692	0.07 ± 0.10	NEG	-0.6 ± 0.6	-0.6 ± 0.3	10.0	35.8	3/29/100	16:35:27		1 of 1
15	**693**	**1.40 ± 0.29**	**POS**	**0.7 ± 1.2**	**1.4 ± 0.1**	**1.1**	**6.0**	**3/29/100**	**16:39:15**		**1 of 1**
16	**694**	**1.20 ± 0.16**	**POS**	**1.0 ± 0.9**	**1.2 ± 0.1**	**1.0**	**13.3**	**3/29/100**	**16:39:51**		**1 of 1**
17	**695**	**1.37 ± 0.29**	**POS**	**2.0 ± 1.2**	**1.4 ± 0.1**	**1.1**	**6.0**	**3/29/100**	**16:40:29**		**1 of 1**
18	**696**	**1.30 ± 0.25**	**POS**	**0.3 ± 0.7**	**1.3 ± 0.1**	**2.7**	**20.8**	**3/29/100**	**16:41:33**		**1 of 1**

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447 B

Site: Ranges (NEG<INC<POS): Device PCS

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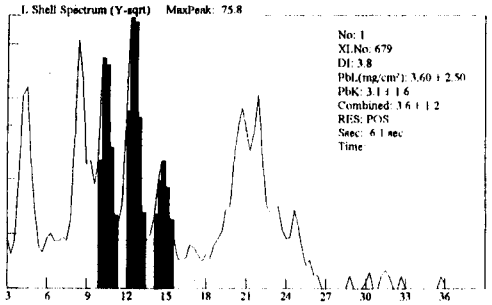

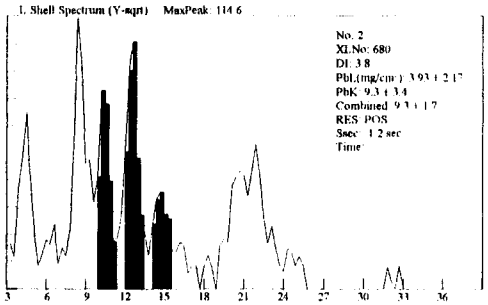

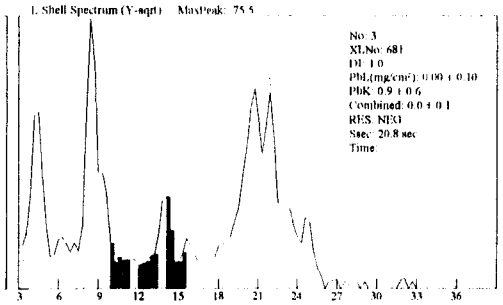

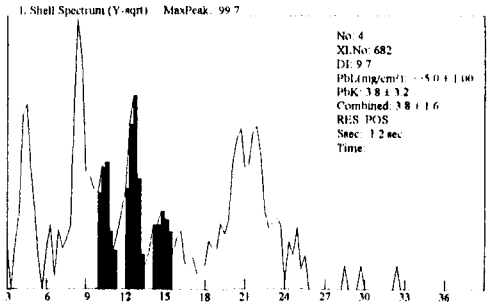

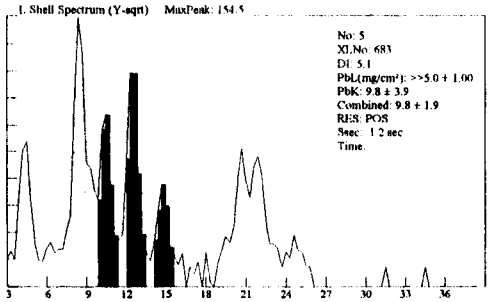

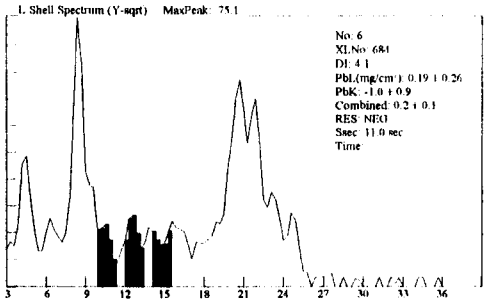

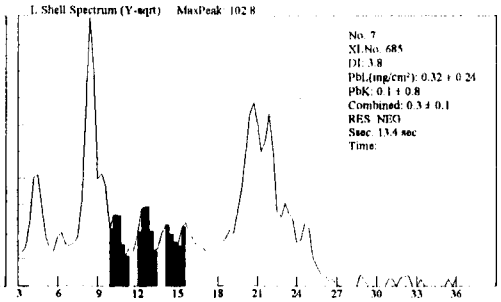

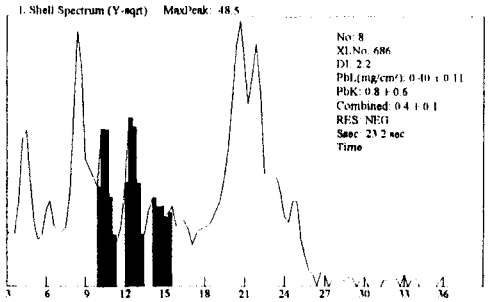

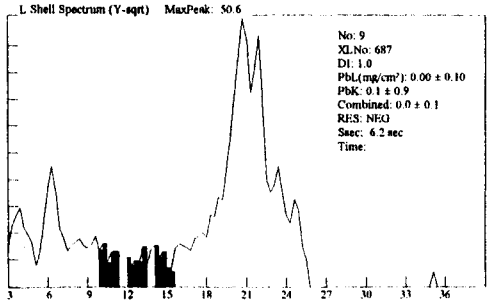

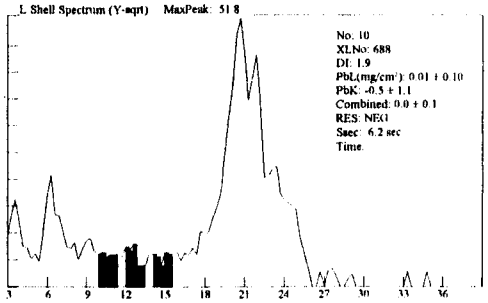

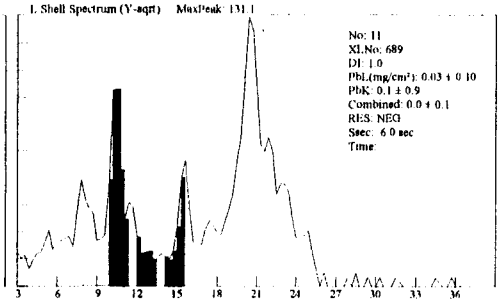

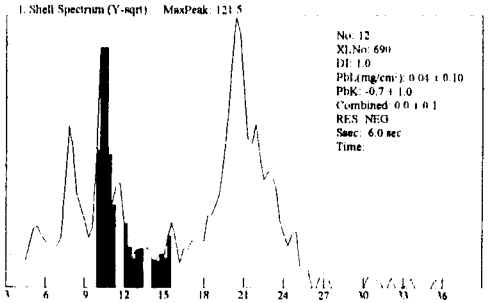

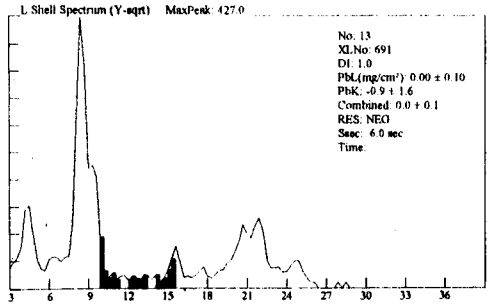

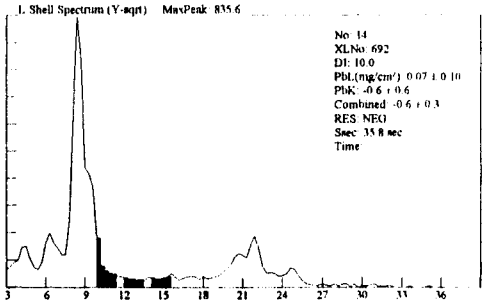

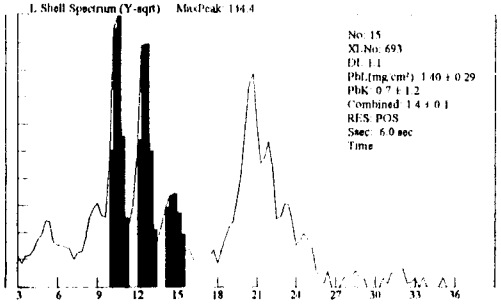

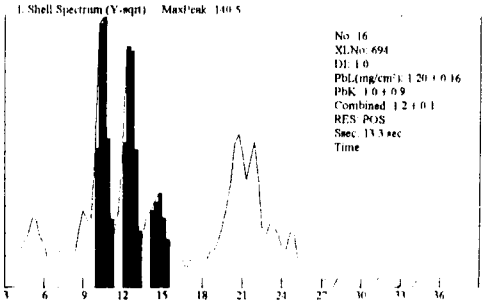

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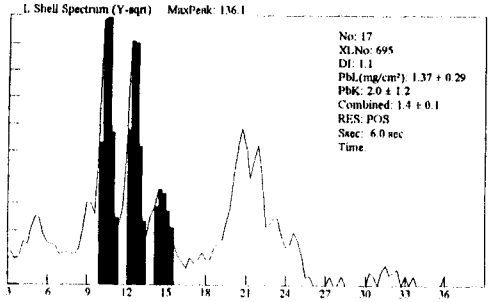

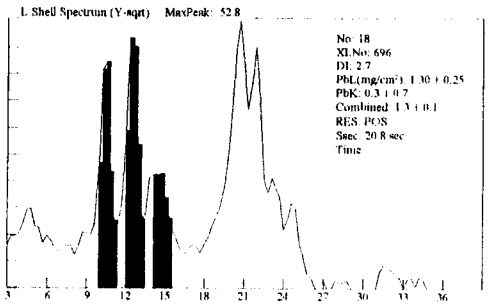

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447B

Site: Ranges (NEG<INC<POS): Device PCS

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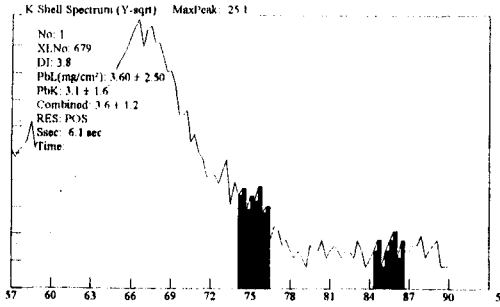

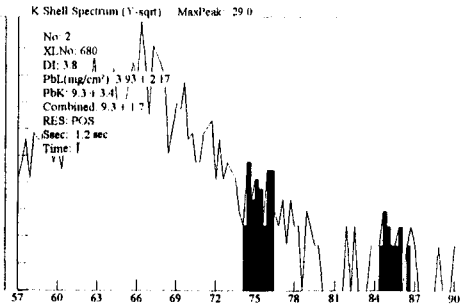

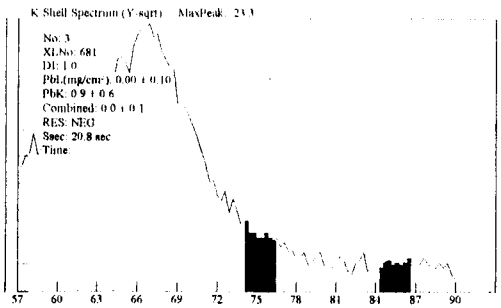

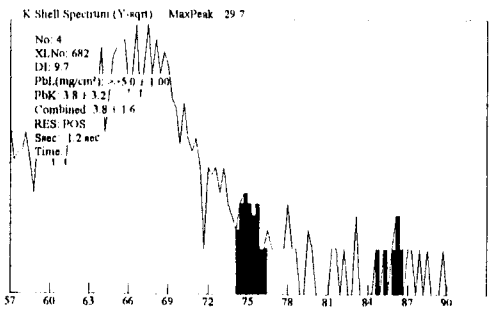

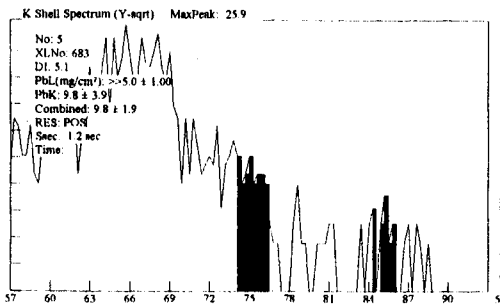

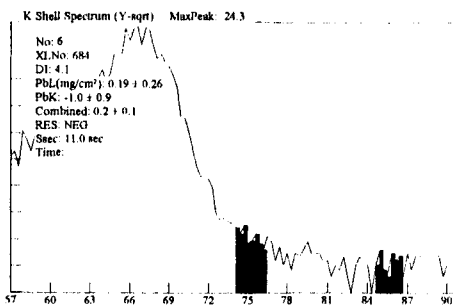

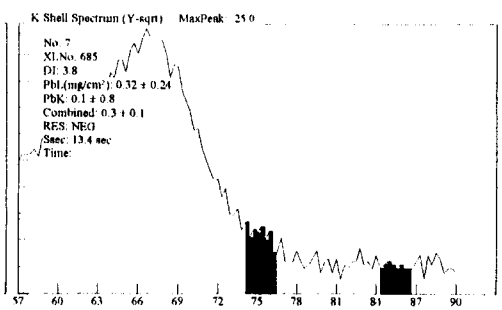

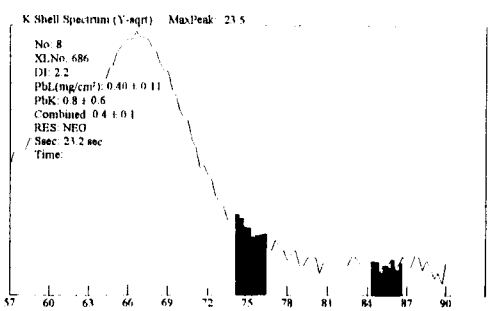

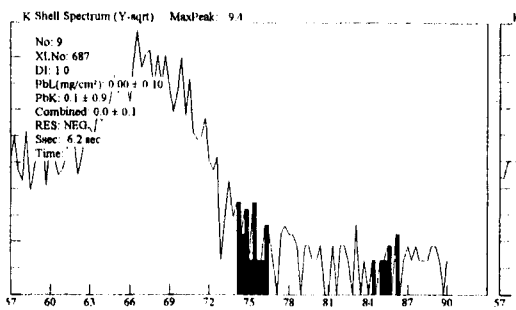

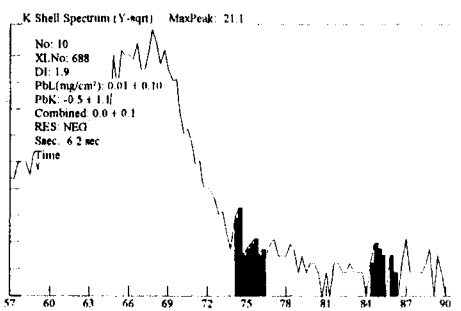

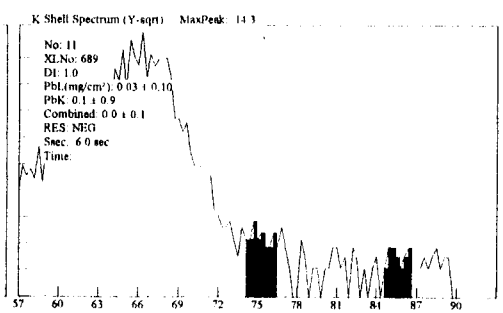

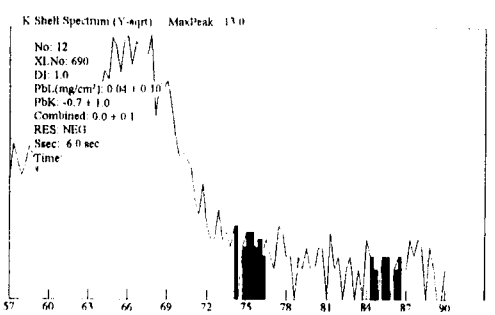

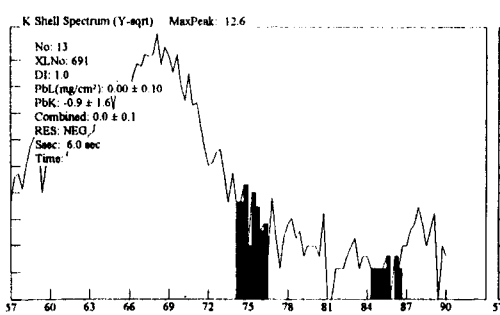

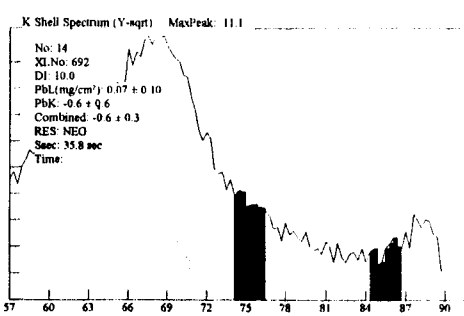

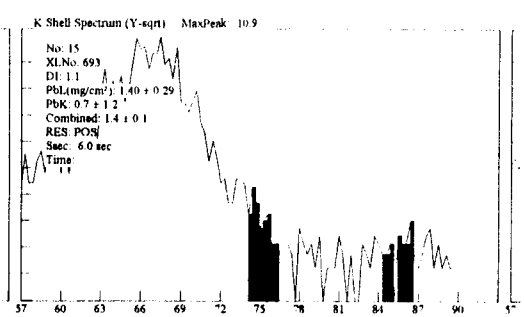

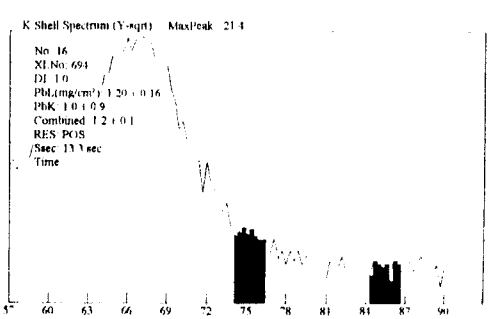

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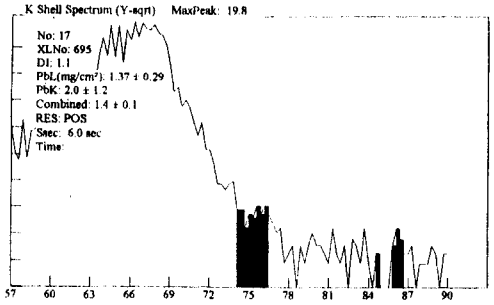
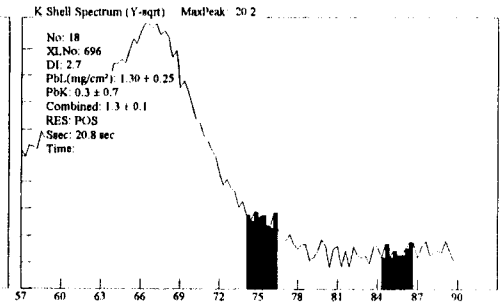
447B

Site: Ranges (NEG<INC<POS): Device PCS

Date: 3/29/100 Paint Page 2





447 B

Serial #XL309-U12673701LY Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	**402**	**1.00 ± 0.12**	**POS**	**0.3 ± 0.6**	**1.0 ± 0.1**	**1.0**	**20.5**	**3/28/100**	**14:41:45**
2	**403**	**1.19 ± 0.14**	**POS**	**0.4 ± 0.6**	**1.2 ± 0.1**	**1.1**	**17.9**	**3/28/100**	**14:42:48**
3	**404**	**1.10 ± 0.10**	**POS**	**0.4 ± 0.8**	**1.1 ± 0.1**	**1.0**	**13.2**	**3/28/100**	**14:43:46**
4	405	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	8.5	3/28/100	14:47:51
5	406	0.00 ± 0.10	NEG	0.9 ± 0.5	0.0 ± 0.1	1.0	16.0	3/28/100	14:50:33
6.	407	0.01 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	3.4	6.1	3/28/100	14:51:12
7	408	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	3/28/100	14:51:32
8	409	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	11.1	3/28/100	14:53:43
9	410	0.01 ± 0.10	NEG	0.3 ± 0.9	0.0 ± 0.1	1.5	11.0	3/28/100	14:54:12
10	**411**	**0.26 ± 0.22**	**POS**	**3.3 ± 1.2**	**3.3 ± 0.6**	**10.0**	**8.6**	**3/28/100**	**14:54:41**
11	**412**	**1.53 ± 1.05**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**10.0**	**20.9**	**3/28/100**	**14:56:06**
12	**413**	**0.54 ± 0.36**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.4**	**10.0**	**20.9**	**3/28/100**	**14:57:20**
13	414	0.00 ± 0.10	NEG	-1.0 ± 1.1	0.0 ± 0.1	1.2	6.2	3/28/100	14:58:21
14	**415**	**3.42 ± 0.95**	**POS**	**6.8 ± 2.2**	**3.4 ± 0.5**	**1.6**	**3.4**	**3/28/100**	**14:59:31**
15	416	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	15:03:08
16	417	0.01 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	2.8	6.1	3/28/100	15:03:28
17	418	0.00 ± 0.10	NEG	-1.5 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	15:03:59
18	419	0.05 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	7.7	11.1	3/28/100	15:04:51
19	420	0.01 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	3.1	8.6	3/28/100	15:05:28
20	421	0.00 ± 0.10	NEG	-0.8 ± 1.1	0.0 ± 0.1	1.1	6.2	3/28/100	15:06:00
21	422	0.00 ± 0.10	NEG	-1.0 ± 1.3	0.0 ± 0.1	1.0	6.2	3/28/100	15:06:56
22	423	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	15:08:04
23	424	0.00 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	1.3	6.2	3/28/100	15:09:50
24	425	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	15:10:39
25	426	0.00 ± 0.10	NEG	0.4 ± 0.7	0.0 ± 0.1	2.3	11.1	3/28/100	15:11:25
26	427	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	11.1	3/28/100	15:12:41
27	428	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	13.6	3/28/100	15:13:16

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	**429**	**3.27 ± 0.92**	**POS**	**6.4 ± 2.2**	**3.3 ± 0.5**	**1.6**	**3.4**	**3/28/100**	**15:14:06**
29	430	0.03 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	8.6	3/28/100	15:14:38
30	431	0.01 ± 0.10	NEG	-0.6 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	15:16:47
31	432	0.01 ± 0.14	NEG	-0.2 ± 1.1	0.0 ± 0.1	2.1	6.2	3/28/100	15:18:05
32	433	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.0	6.2	3/28/100	15:18:27
33	434	0.00 ± 0.10	NEG	-1.2 ± 1.2	0.0 ± 0.1	1.5	6.2	3/28/100	15:19:12
34	435	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.2	3/28/100	15:19:49
35	**436**	**0.72 ± 0.12**	**POS**	**1.5 ± 0.5**	**1.5 ± 0.2**	**2.9**	**50.8**	**3/28/100**	**15:20:36**
36	437	0.26 ± 0.38	NEG	0.1 ± 1.0	0.3 ± 0.2	8.0	10.4	3/28/100	15:22:45
37	438	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	15:24:04
38	439	0.01 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	15:24:28
39	440	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	10.9	3/28/100	15:24:49
40	441	0.00 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.0	6.2	3/28/100	15:25:58
41	442	0.01 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	15:26:20
42	443	0.02 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	5.8	8.6	3/28/100	15:26:41
43	444	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	8.6	3/28/100	15:27:18
44	445	0.07 ± 0.26	NEG	0.4 ± 0.8	0.1 ± 0.1	2.6	15.0	3/28/100	15:28:05
45	446	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.4	6.1	3/28/100	15:29:06
46	447	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.0	3/28/100	15:29:36
47	448	0.00 ± 0.10	NEG	-0.7 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	15:29:57
48	449	0.00 ± 0.12	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.0	6.1	3/28/100	15:30:32
49	450	0.00 ± 0.10	NEG	-1.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	15:31:15
50	451	0.03 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	5.6	6.1	3/28/100	15:31:48
51	452	0.00 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	1.0	18.5	3/28/100	15:32:24
52	453	0.04 ± 0.30	NEG	-0.5 ± 1.3	0.0 ± 0.2	3.0	5.8	3/28/100	15:33:31
53	454	0.02 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	10.6	3/28/100	15:33:49
54	**455**	**3.35 ± 0.90**	**POS**	**5.3 ± 2.2**	**3.4 ± 0.5**	**1.5**	**3.4**	**3/28/100**	**15:34:31**
55	456	0.01 ± 0.27	NEG	-1.2 ± 1.3	0.0 ± 0.1	1.0	5.8	3/28/100	15:35:15

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	457	0.07 ± 0.21	NEG	0.9 ± 0.6	0.1 ± 0.1	5.2	22.1	3/28/100	15:35:44
57	458	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	15:37:26
58	459	0.12 ± 0.23	NEG	0.6 ± 0.7	0.1 ± 0.1	7.2	17.3	3/28/100	15:38:07
59	460	0.00 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	15:39:03
60	461	0.00 ± 0.10	NEG	0.7 ± 0.6	0.0 ± 0.1	1.0	16.0	3/28/100	15:39:33
61	462	0.00 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	15:40:16
62	463	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	15:40:57
63	464	0.00 ± 0.10	NEG	-0.7 ± 1.2	0.0 ± 0.1	1.3	6.2	3/28/100	15:43:44
64	465	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.1	6.2	3/28/100	15:44:11
65	466	0.00 ± 0.10	NEG	-0.3 ± 1.0	0.0 ± 0.1	1.0	8.6	3/28/100	15:44:51
66	467	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	15:46:47
67	468	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	15:47:10
68	469	0.00 ± 0.10	NEG	-0.4 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	15:50:05
69	470	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	3.0	13.5	3/28/100	15:50:41
70	471	0.01 ± 0.10	NEG	-0.5 ± 0.8	0.0 ± 0.1	3.4	13.6	3/28/100	15:57:03
71	472	0.00 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	6.2	3/28/100	16:01:39
72	473	0.01 ± 0.12	NEG	-0.2 ± 1.0	0.0 ± 0.1	2.5	8.6	3/28/100	16:02:00
73	474	0.00 ± 0.10	NEG	-0.8 ± 1.2	0.0 ± 0.1	1.0	6.2	3/28/100	16:02:27
74	475	0.00 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	13.6	3/28/100	16:02:45
75	**476**	**2.09 ± 0.49**	**POS**	**3.8 ± 1.4**	**2.1 ± 0.2**	**1.6**	**5.9**	**3/28/100**	**16:03:35**
76	**477**	**1.80 ± 0.43**	**POS**	**1.2 ± 1.4**	**1.8 ± 0.2**	**1.6**	**5.9**	**3/28/100**	**16:04:14**
77	**478**	**2.94 ± 0.98**	**POS**	**2.7 ± 1.8**	**2.9 ± 0.5**	**2.0**	**3.5**	**3/28/100**	**16:04:39**
78	**479**	**2.13 ± 0.49**	**POS**	**1.7 ± 1.4**	**2.1 ± 0.2**	**1.6**	**5.9**	**3/28/100**	**16:04:57**
79	**480**	**1.54 ± 0.41**	**POS**	**2.5 ± 1.5**	**1.5 ± 0.2**	**1.6**	**5.8**	**3/28/100**	**16:05:50**
80	481	0.00 ± 0.10	NEG	-0.2 ± 0.8	0.0 ± 0.1	1.0	8.7	3/28/100	16:06:47
81	482	0.00 ± 0.10	NEG	-0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	16:07:26
82	483	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.1	3/28/100	16:08:50
83	484	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	16:09:32

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Site: Date: 3/28/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	485	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	16:10:04
85	486	0.03 ± 0.37	NEG	-1.4 ± 1.3	0.0 ± 0.2	1.6	5.9	3/28/100	16:11:47
86	487	0.02 ± 0.25	NEG	0.4 ± 0.8	0.0 ± 0.1	2.0	15.1	3/28/100	16:12:06
87	488	0.00 ± 0.10	NEG	-0.5 ± 1.1	0.0 ± 0.1	1.0	5.9	3/28/100	16:12:49
88	489	0.01 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	3.2	11.1	3/28/100	16:15:21
89	490	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	11.1	3/28/100	16:15:52
90	491	0.03 ± 0.15	NEG	-0.1 ± 1.1	0.0 ± 0.1	3.5	6.2	3/28/100	16:16:32
91	492	0.01 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.8	6.2	3/28/100	16:19:32
92	**493**	**>>5.0 ± 1.00**	**POS**	**6.6 ± 3.8**	**6.6 ± 1.9**	**1.6**	**1.1**	**3/28/100**	**16:19:58**
93	494	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	8.6	3/28/100	16:21:59
94	495	0.05 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	7.5	6.2	3/28/100	16:22:23
95	496	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	8.6	3/28/100	16:22:43
96	497	0.04 ± 0.15	NEG	-0.9 ± 1.2	0.0 ± 0.1	5.0	6.2	3/28/100	16:23:16
97	498	0.00 ± 0.10	INCOM	0.6 ± 2.7	0.0 ± 0.1	1.0	1.2	3/28/100	16:23:36
98	499	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	8.7	3/28/100	16:23:43
99	500	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	16:28:04
100	501	0.01 ± 0.10	NEG	-1.3 ± 1.1	0.0 ± 0.1	1.0	6.0	3/28/100	16:28:28
101	502	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	16:28:46
102	503	0.00 ± 0.10	NEG	0.5 ± 0.8	0.0 ± 0.1	1.0	6.1	3/28/100	16:29:13
103	504	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	6.2	3/28/100	16:29:32
104	505	0.00 ± 0.10	NEG	-0.6 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	16:29:54
105	506	0.00 ± 0.10	NEG	0.4 ± 0.9	0.0 ± 0.1	1.1	8.6	3/28/100	16:31:35
106	507	0.02 ± 0.16	NEG	-0.9 ± 1.1	0.0 ± 0.1	3.0	6.2	3/28/100	16:32:04
107	508	0.00 ± 0.10	NEG	-1.1 ± 1.2	0.0 ± 0.1	1.0	6.2	3/28/100	16:35:55
108	509	0.04 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	6.2	11.1	3/28/100	16:36:16
109	510	0.00 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.4	6.2	3/28/100	16:36:44
110	511	0.02 ± 0.11	NEG	-0.8 ± 1.2	0.0 ± 0.1	4.3	6.2	3/28/100	16:37:04
111	**512**	**4.61 ± 1.49**	**POS**	**8.5 ± 2.5**	**4.6 ± 0.7**	**1.4**	**3.4**	**3/28/100**	**16:37:29**

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No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
112	513	0.02 ± 0.14	NEG	-0.1 ± 1.0	0.0 ± 0.1	2.8	6.2	3/28/100	16:40:00
113	514	0.01 ± 0.12	NEG	-0.3 ± 1.2	0.0 ± 0.1	1.3	6.2	3/28/100	16:40:27
114	515	0.03 ± 0.10	NEG	-0.3 ± 1.2	0.0 ± 0.1	6.0	6.2	3/28/100	16:41:02
115	516	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/28/100	16:41:21
116	517	0.03 ± 0.24	NEG	-0.7 ± 1.2	0.0 ± 0.1	2.2	6.2	3/28/100	16:42:04
117	518	0.00 ± 0.10	NEG	-1.3 ± 1.1	0.0 ± 0.1	1.0	6.1	3/28/100	16:43:32
118	519	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.2	3/28/100	16:43:53
119	520	0.00 ± 0.10	NEG	-0.7 ± 1.0	0.0 ± 0.1	1.0	6.2	3/28/100	16:44:10
120	521	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.1	3/28/100	16:46:49
121	522	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	6.2	3/28/100	16:47:07
122	523	0.01 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.1	3/28/100	16:47:23
123	524	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	3/28/100	16:47:54
124	525	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	8.6	3/28/100	16:48:25

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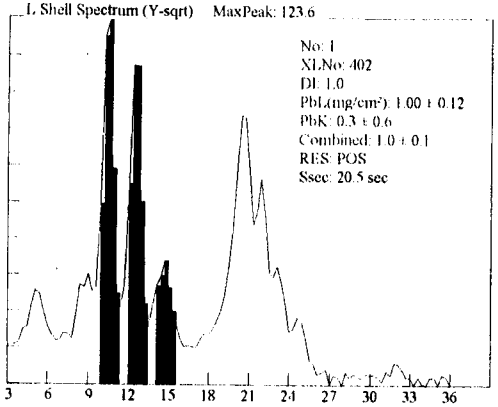

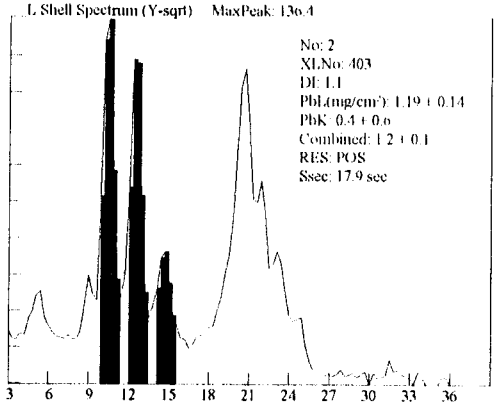

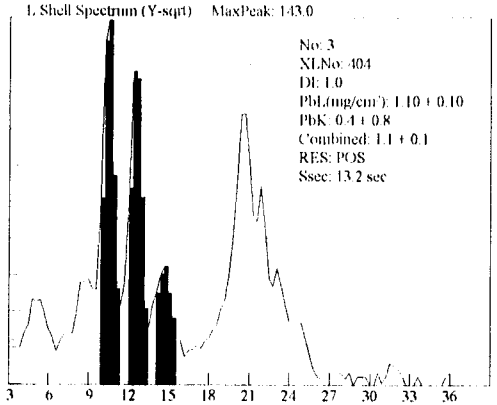

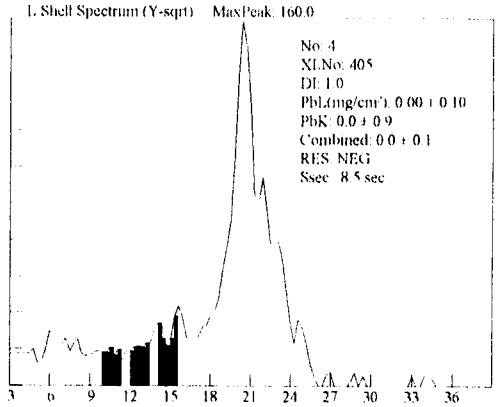

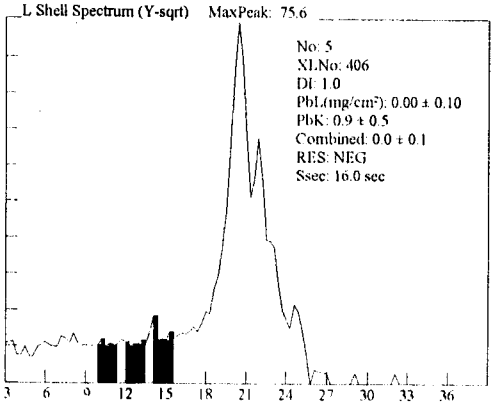

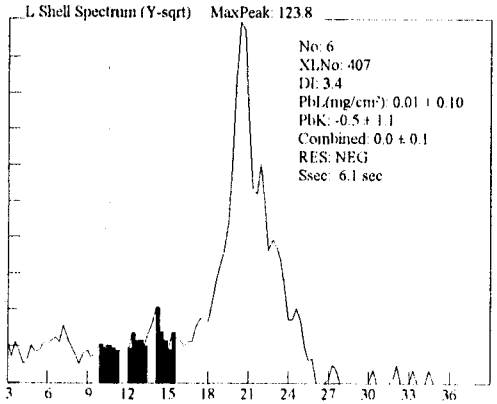

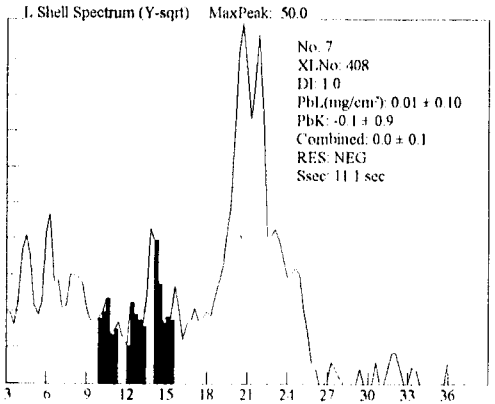

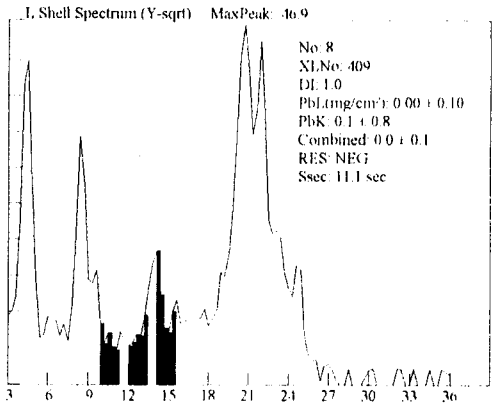

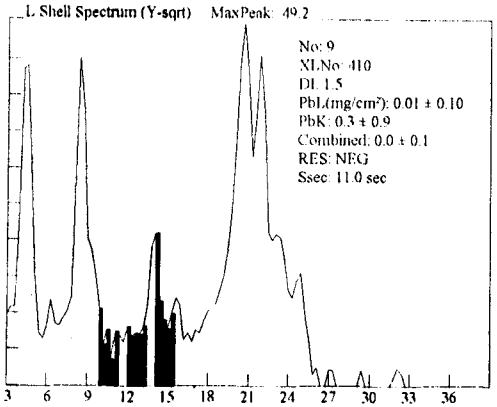

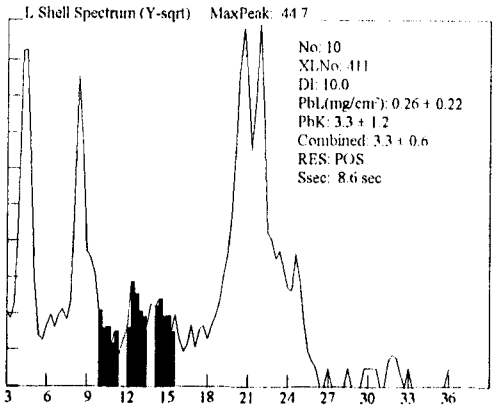

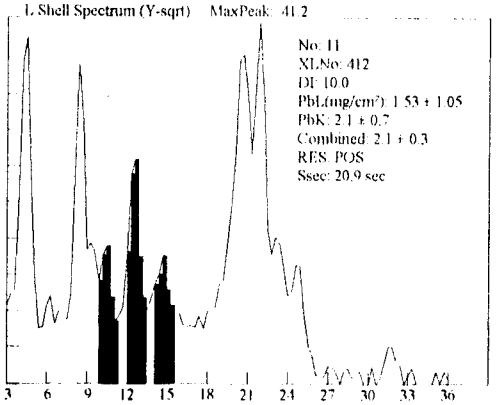

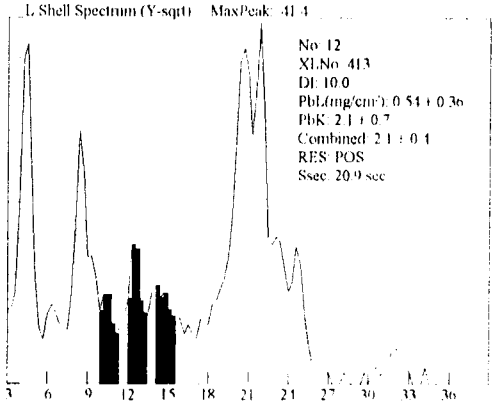

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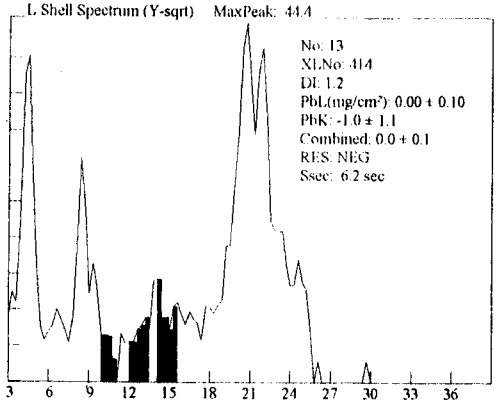

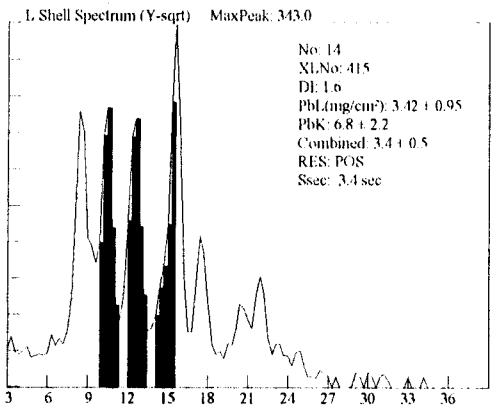

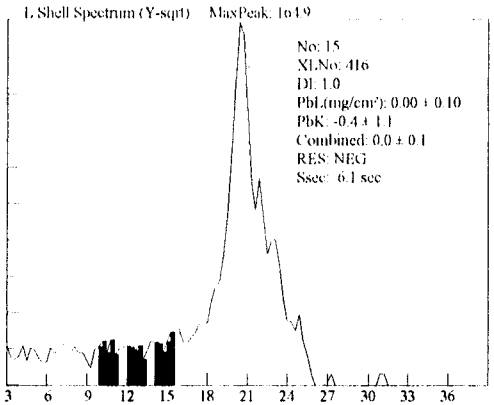

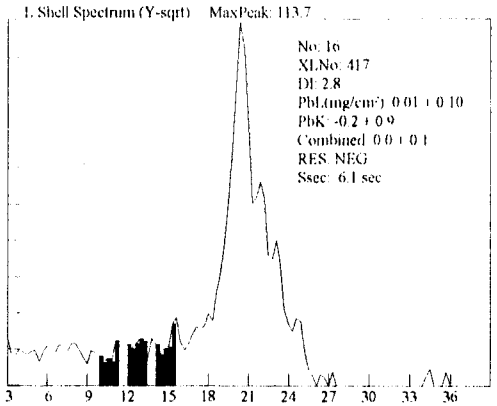

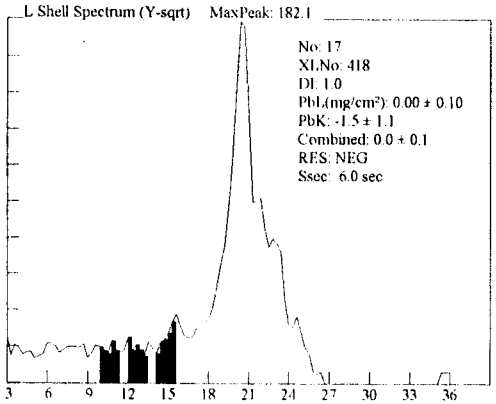

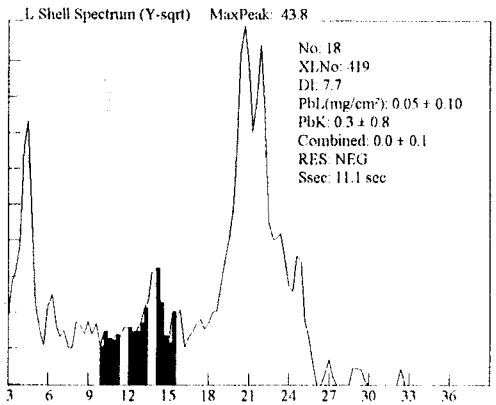

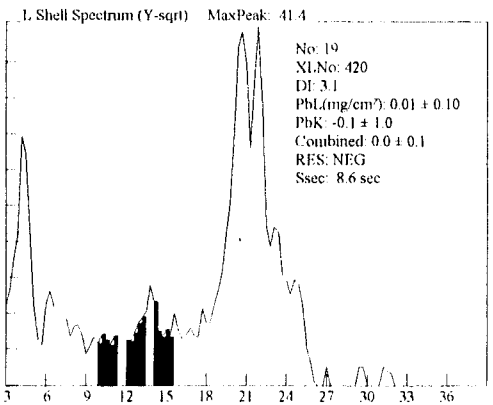

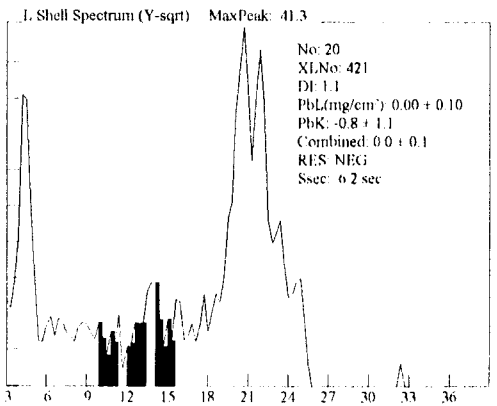

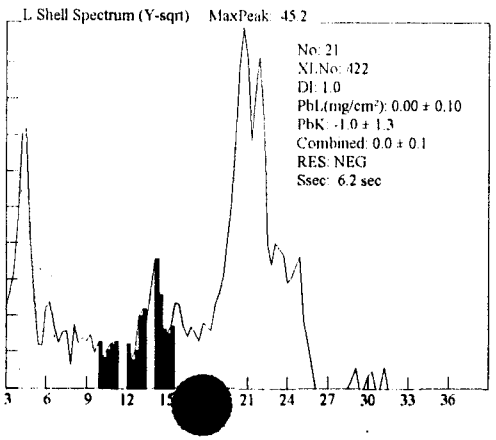

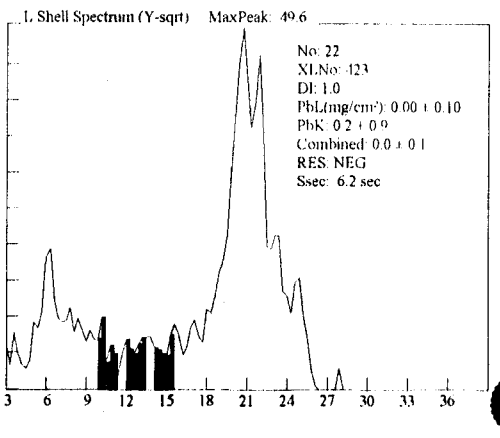

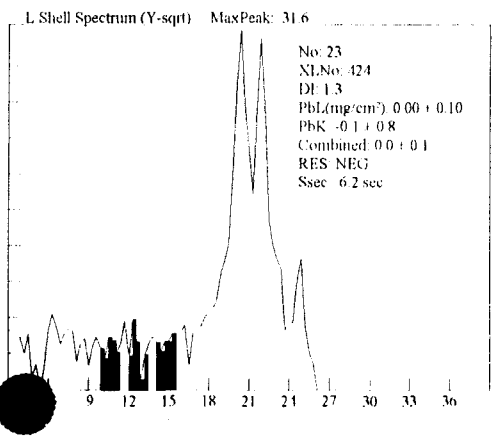

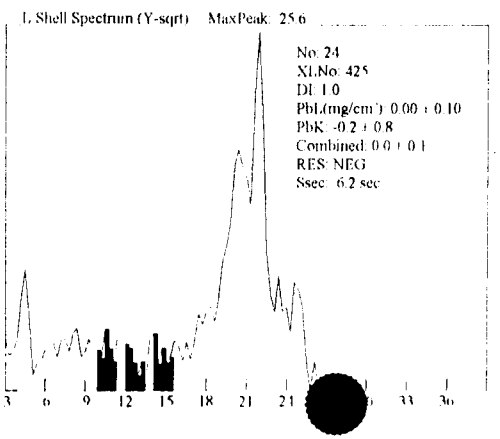

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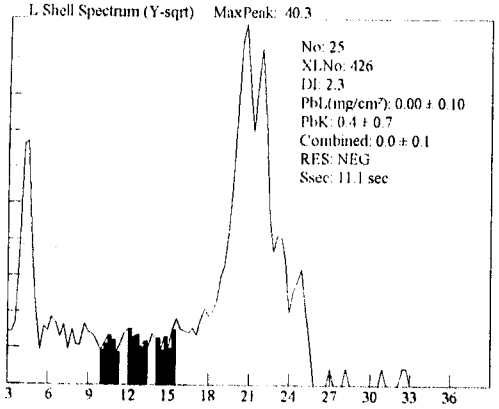

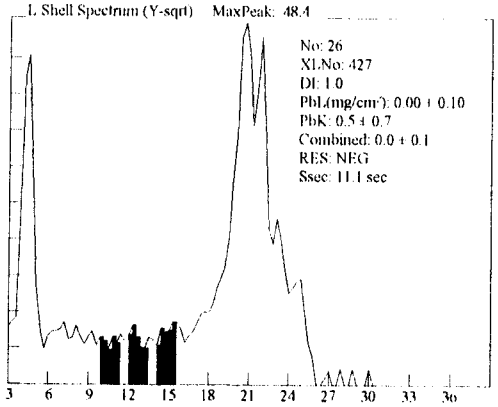

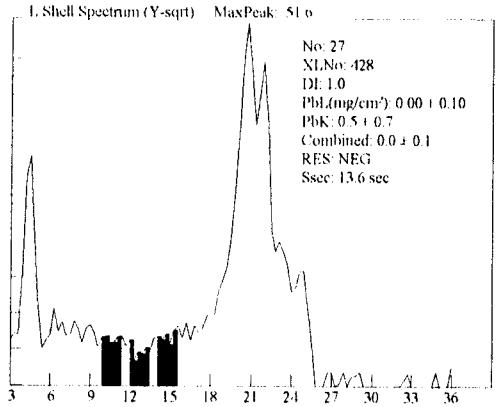

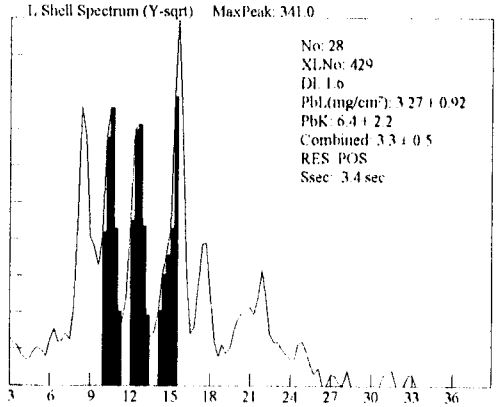

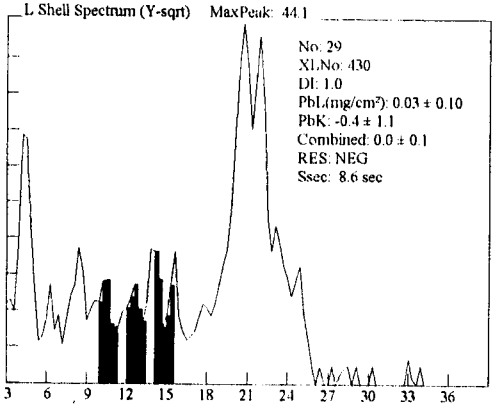

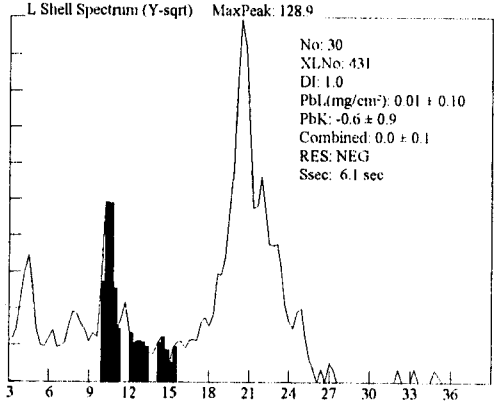

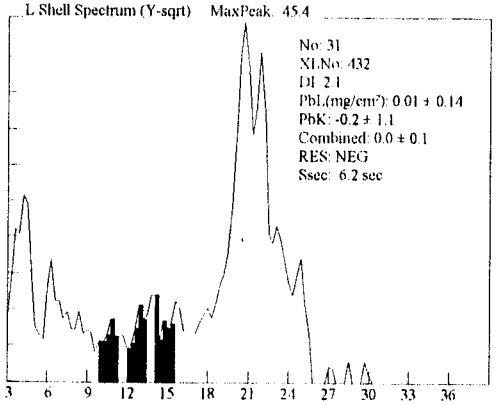

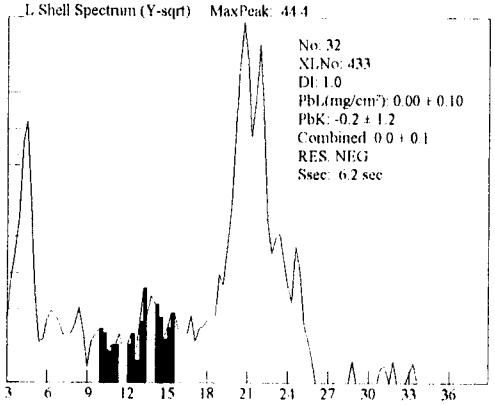

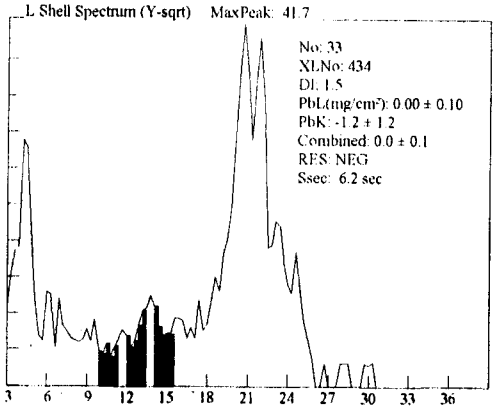

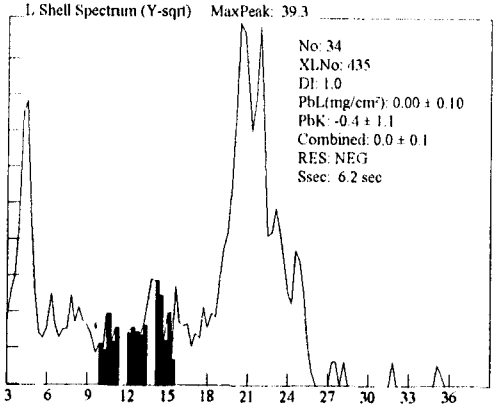

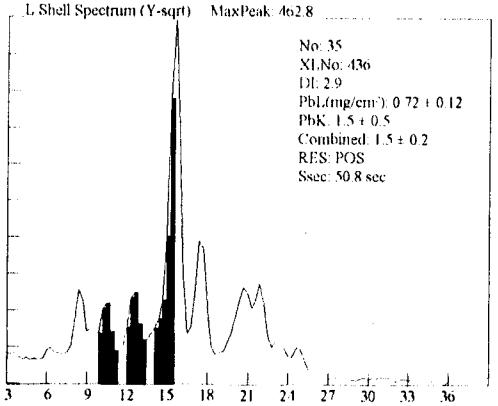

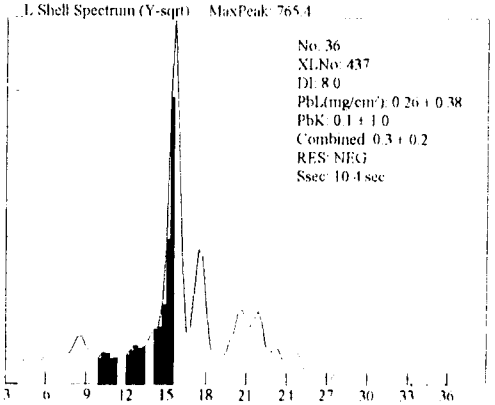

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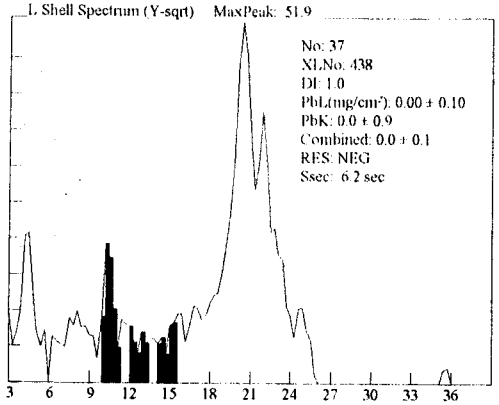

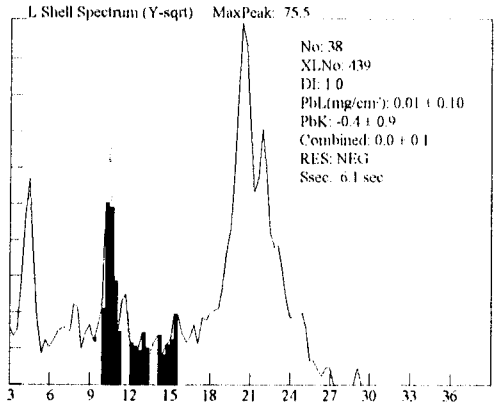

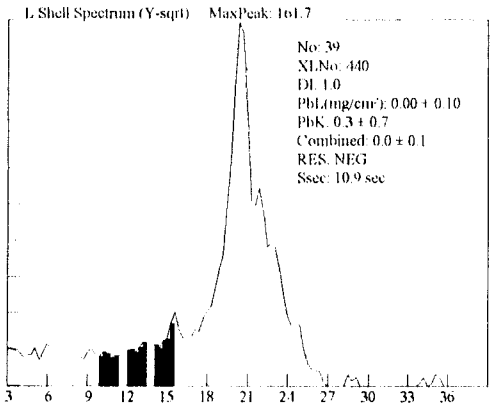

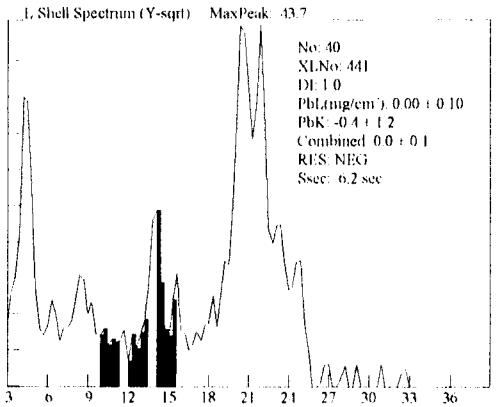

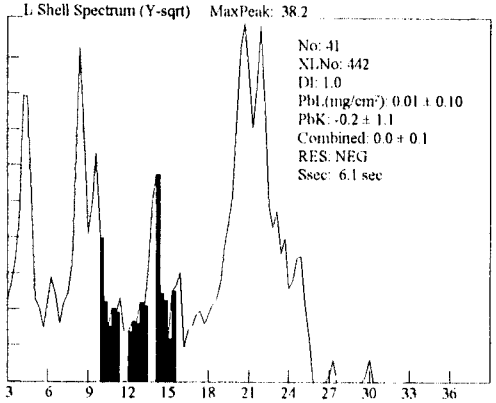

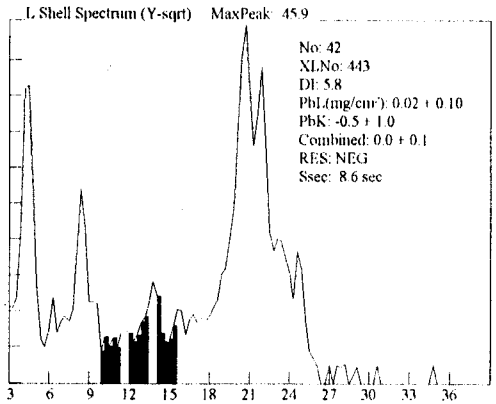

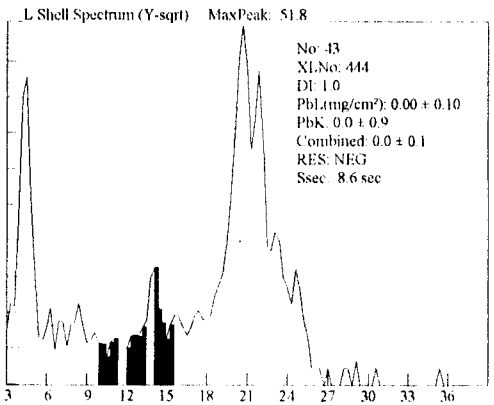

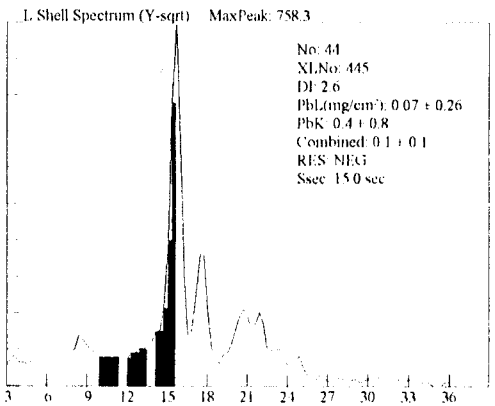

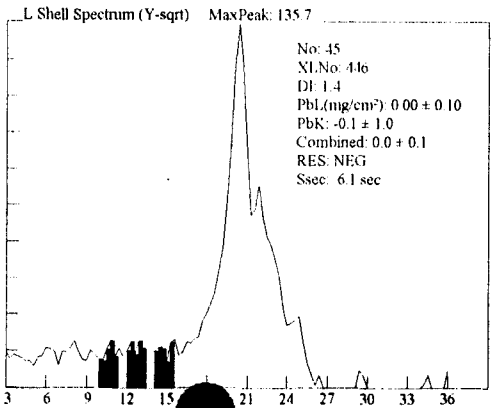

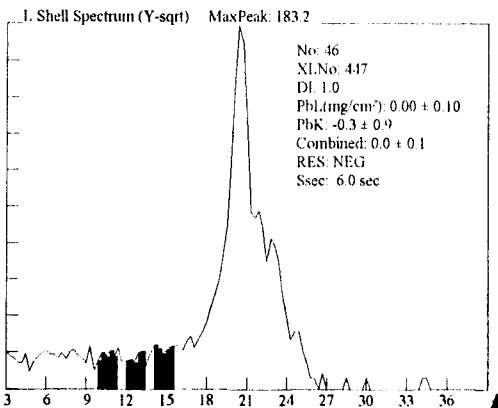

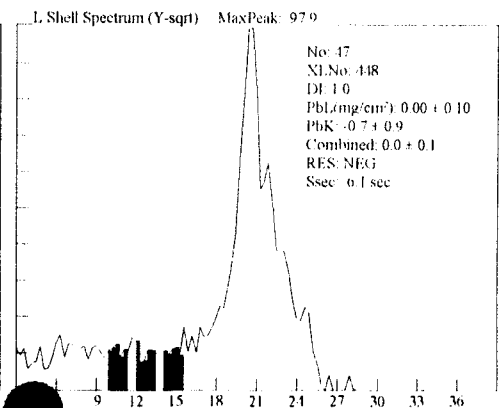

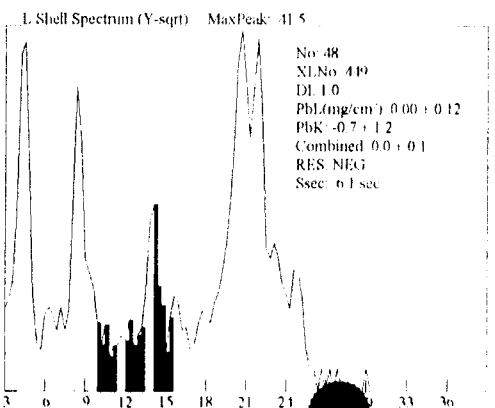

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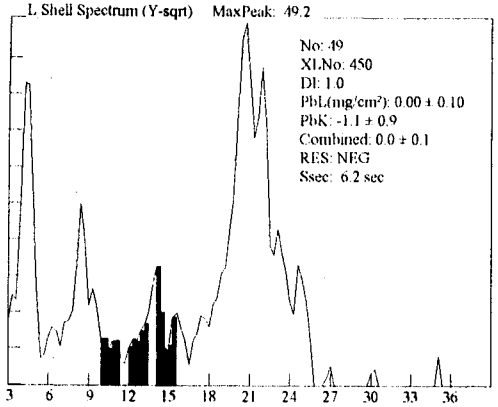

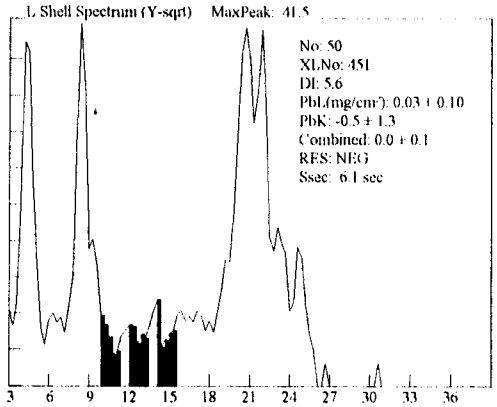

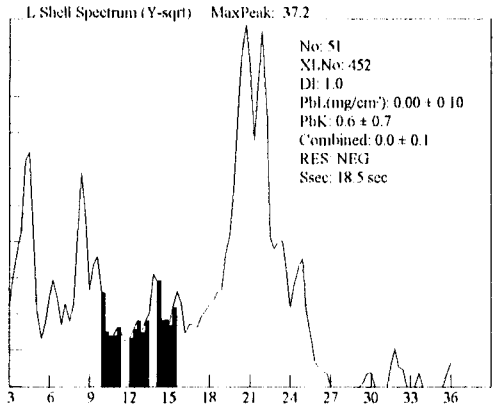

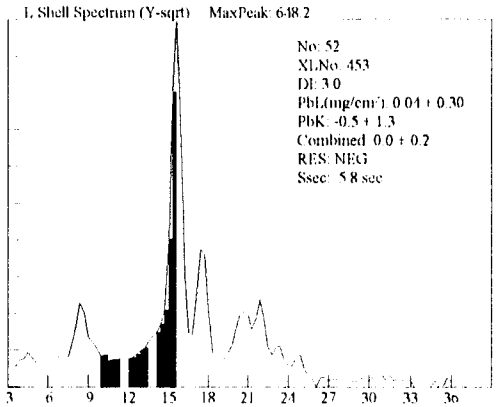

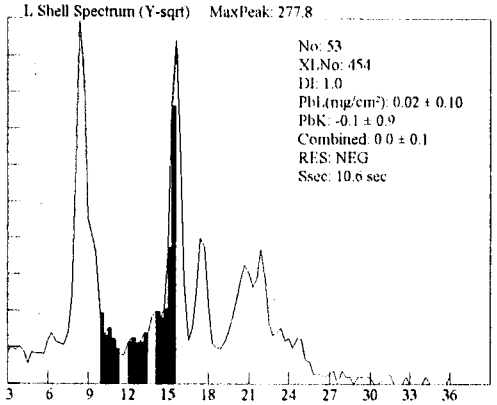

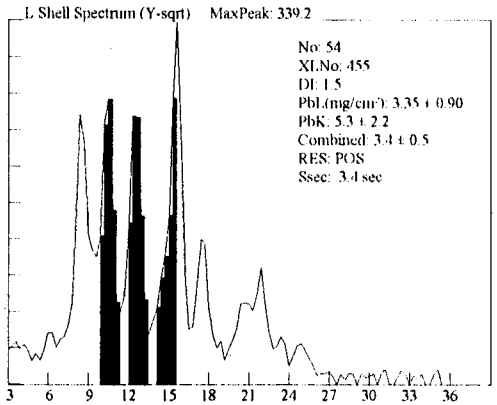

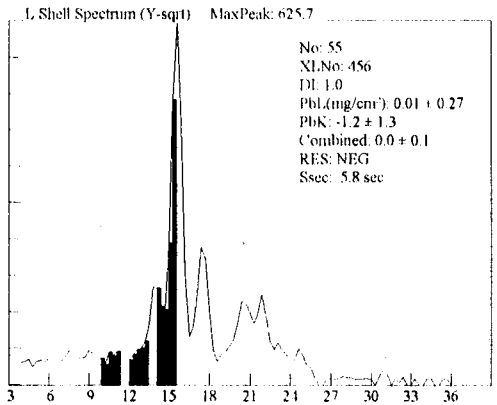

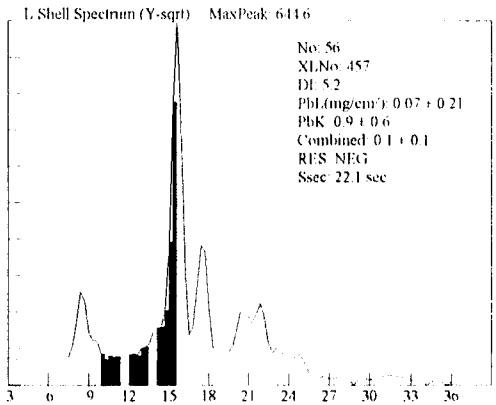

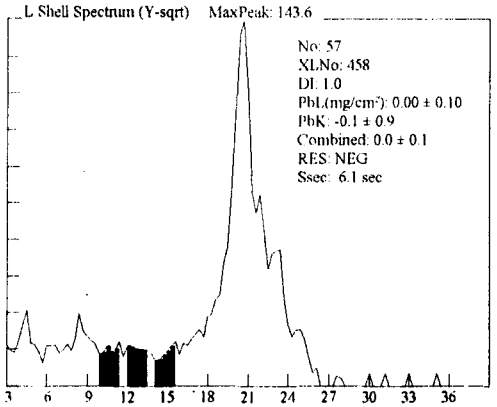

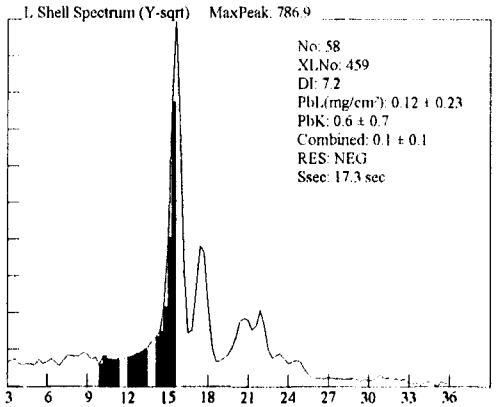

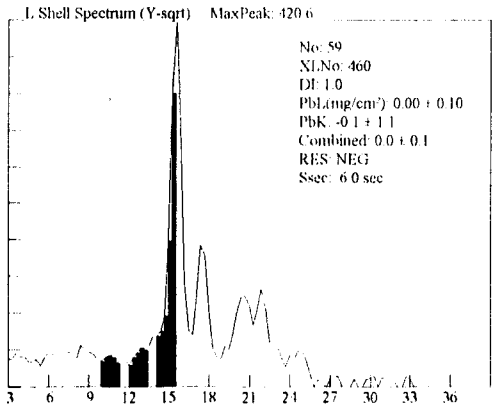

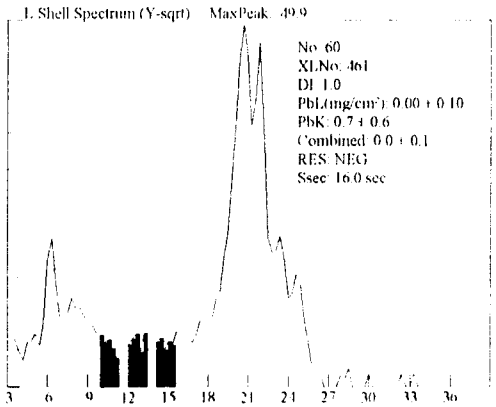

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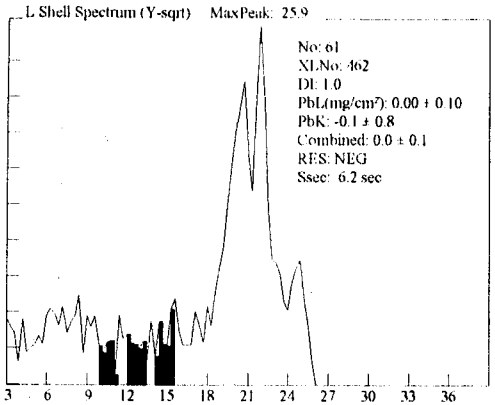

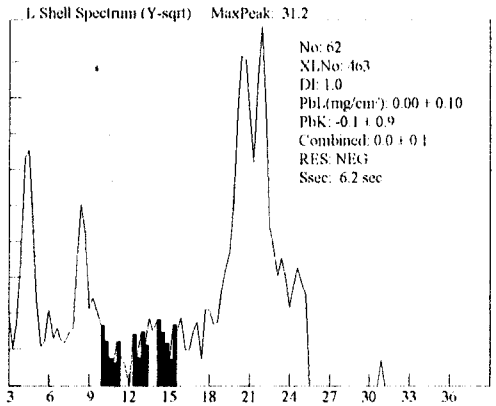

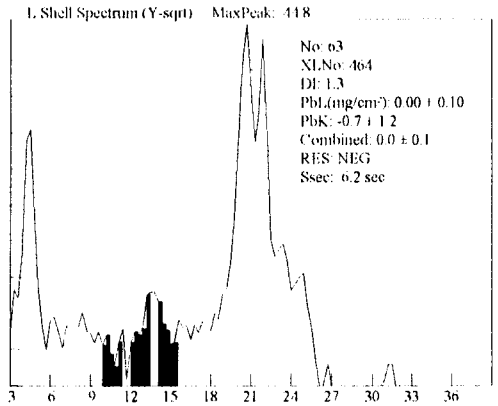

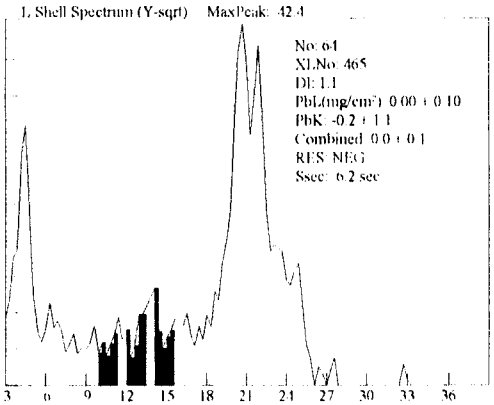

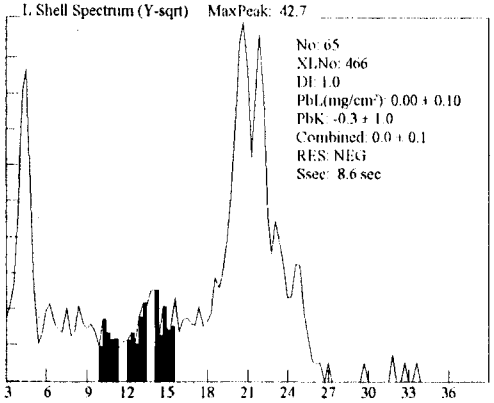

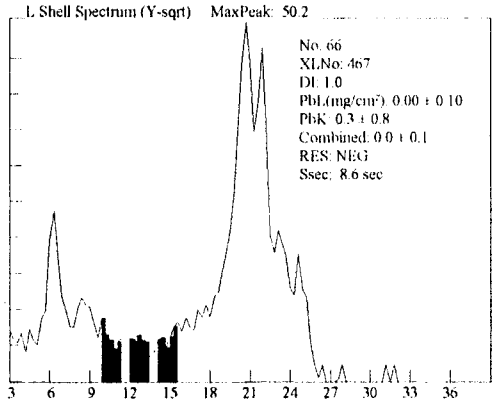

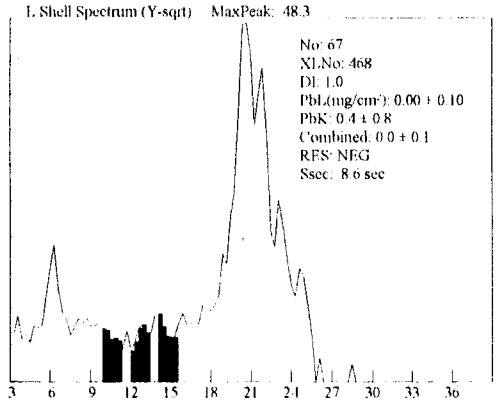

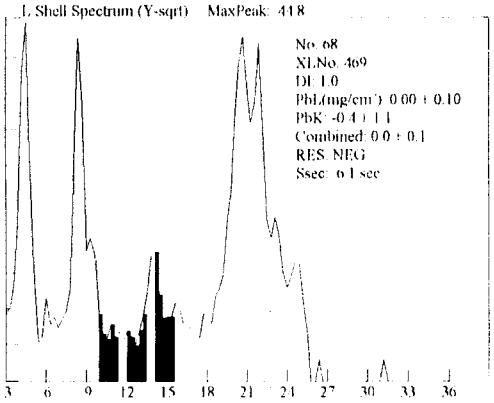

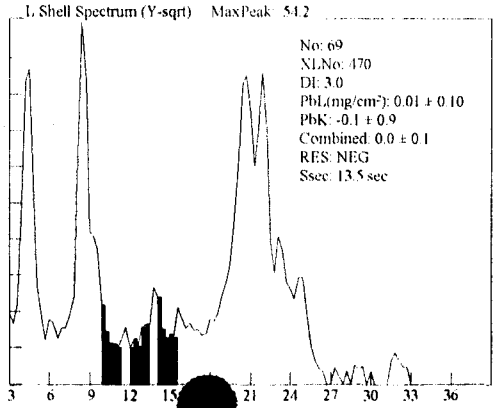

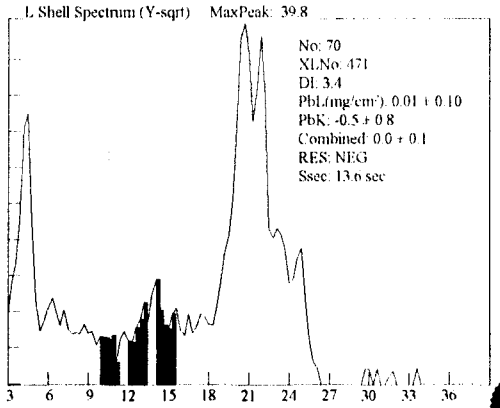

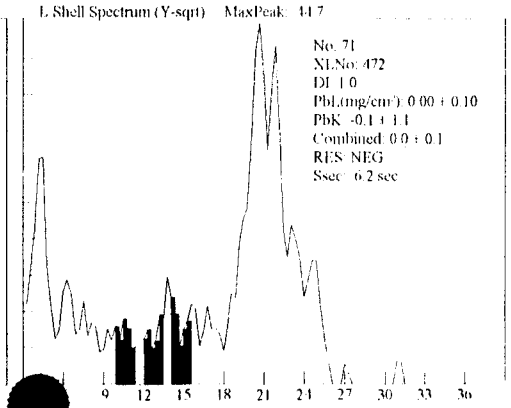

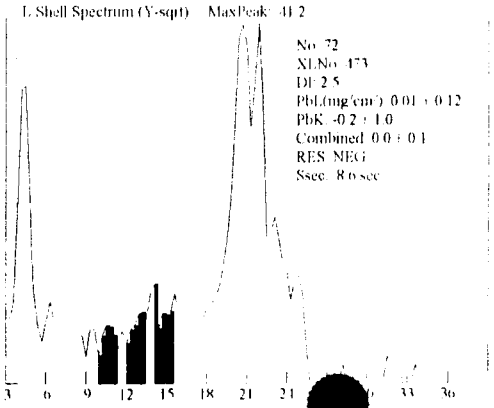

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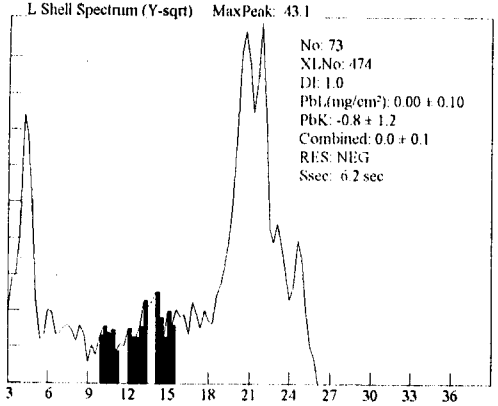

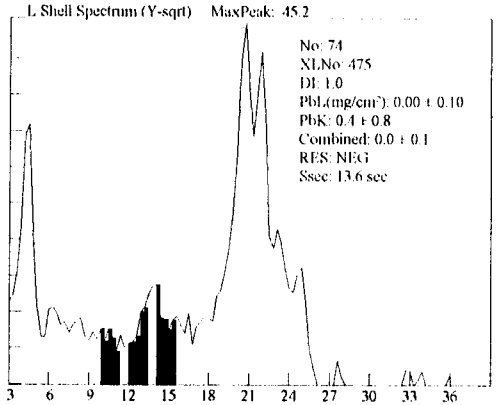

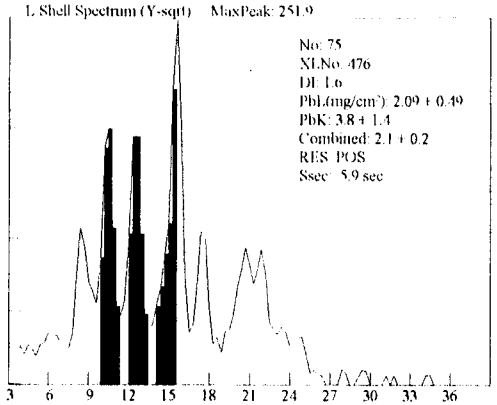

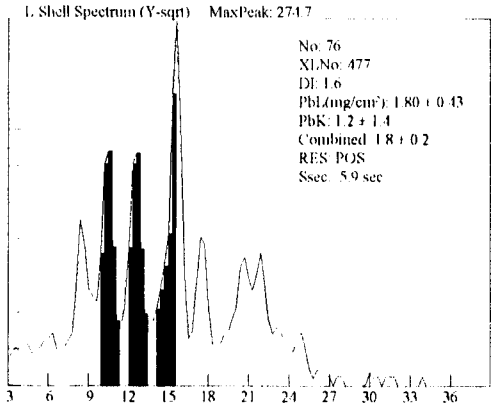

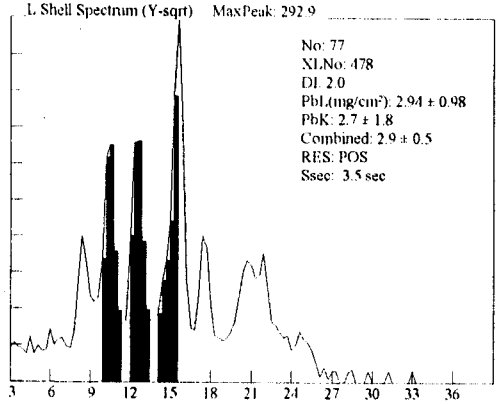

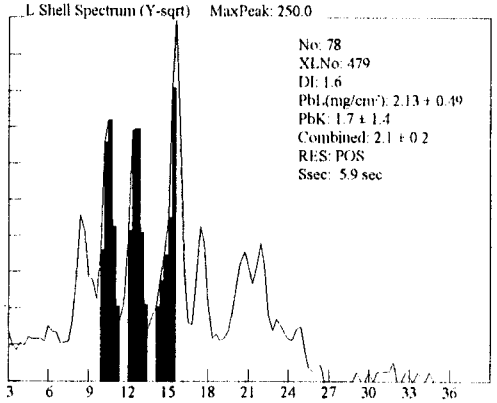

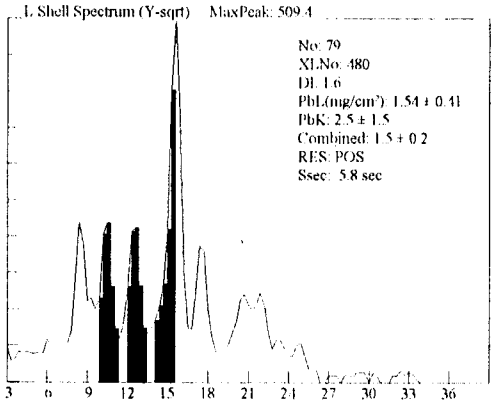

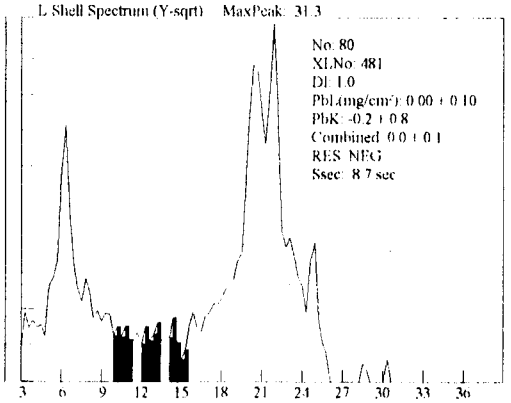

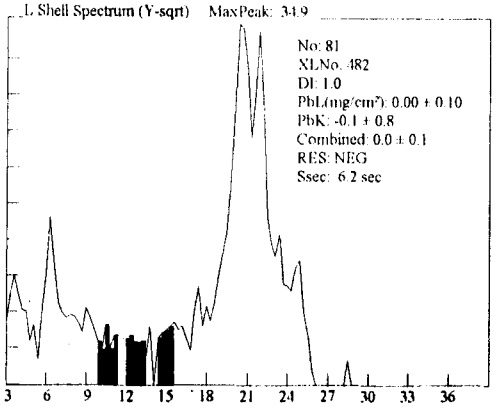

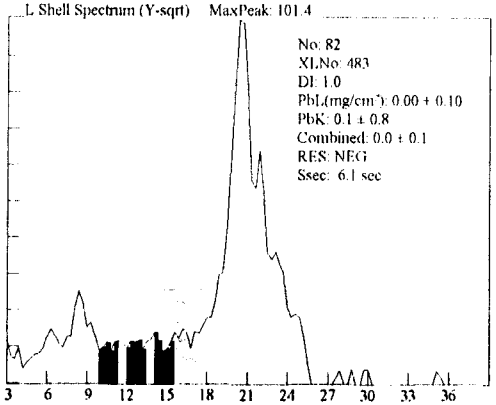

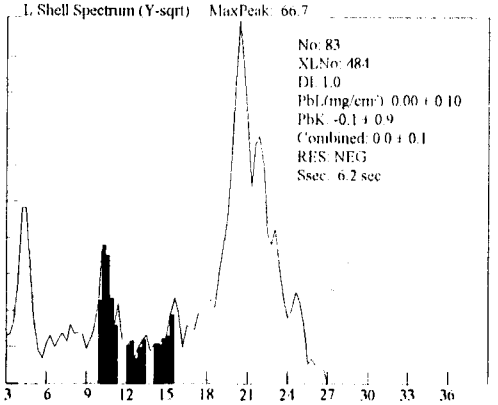

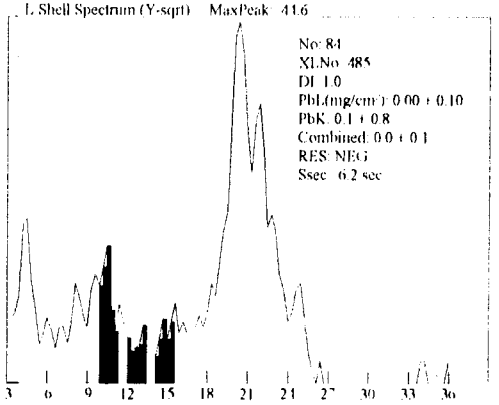

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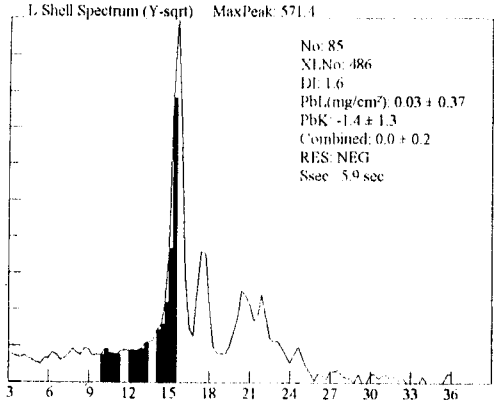

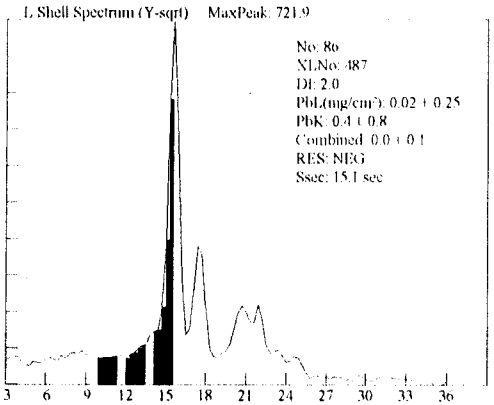

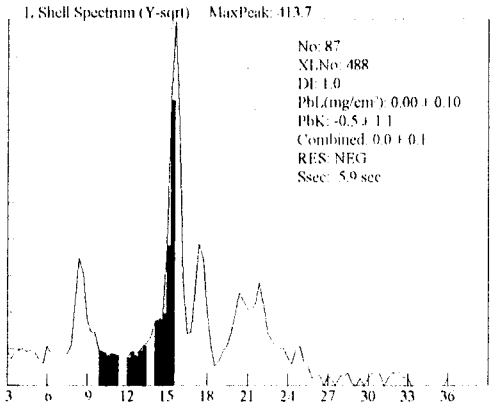

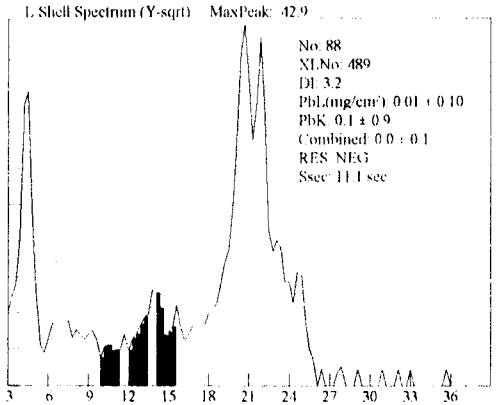

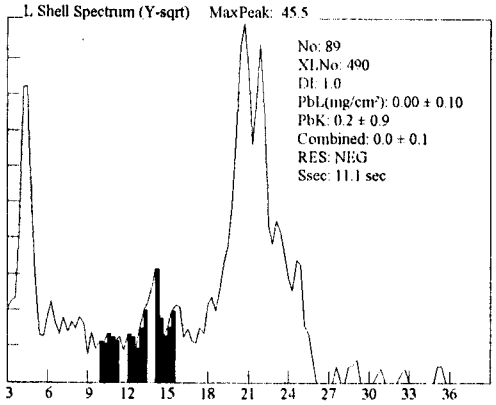

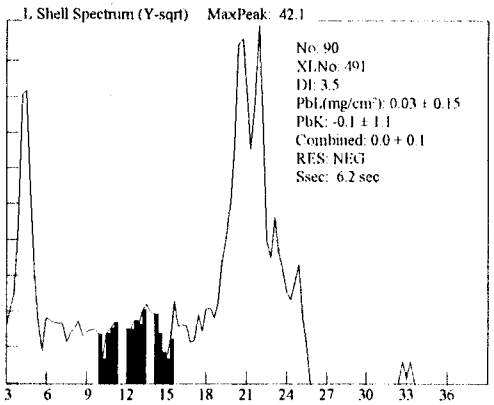

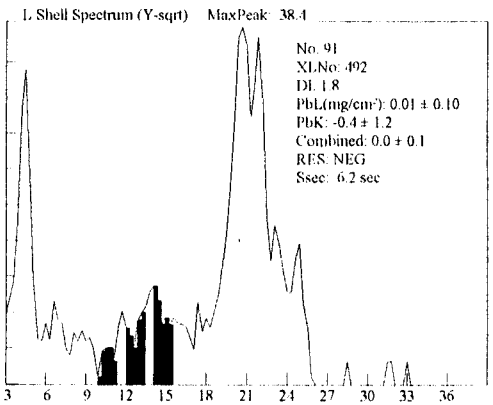

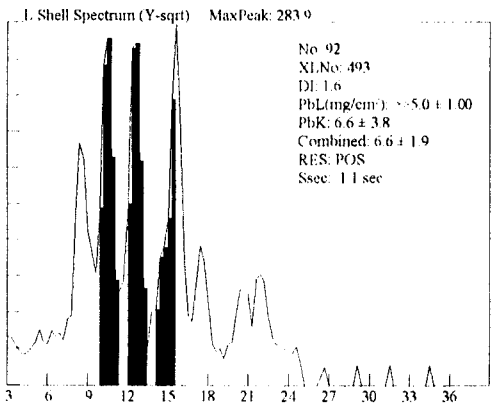

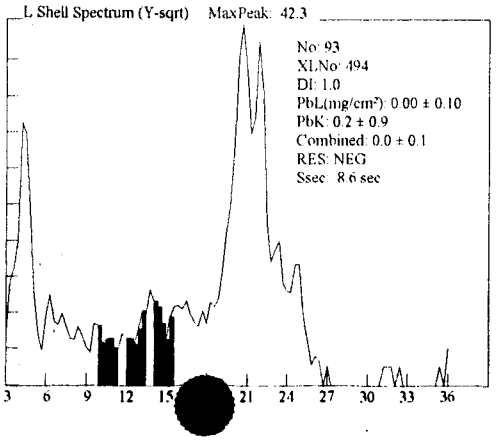

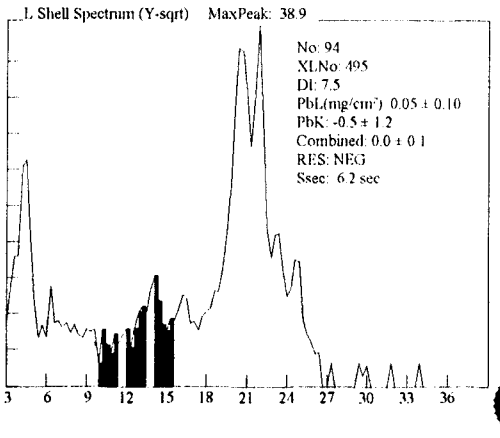

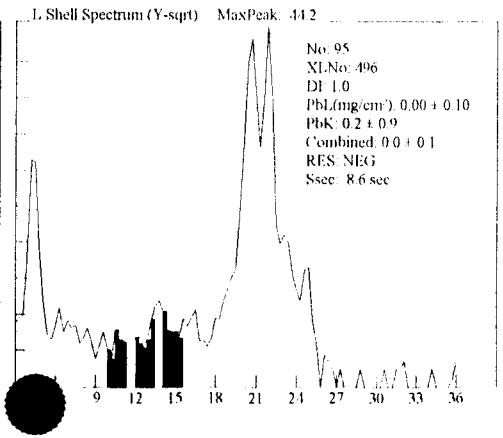

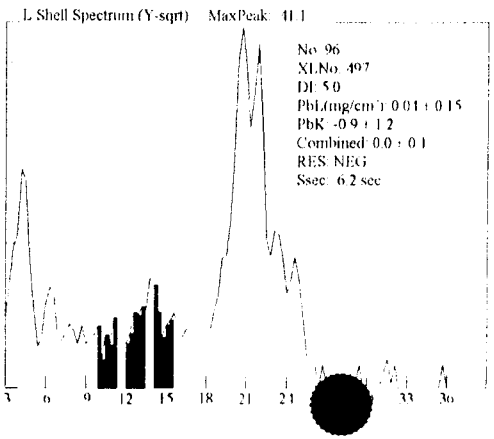

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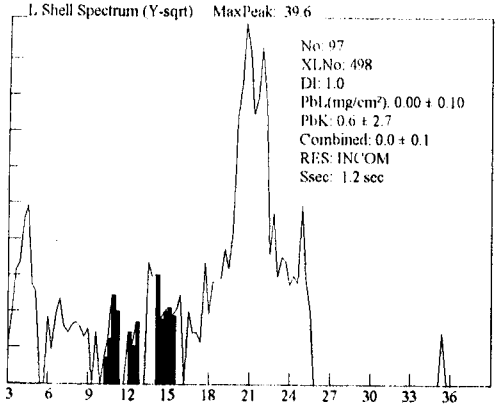

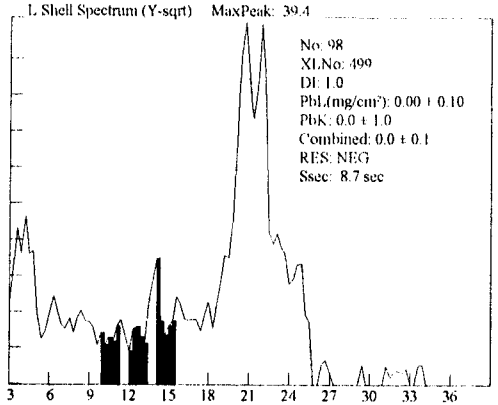

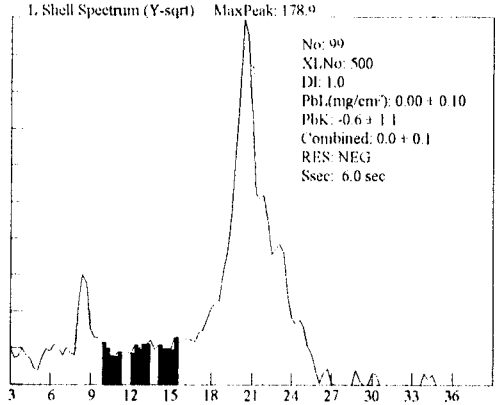

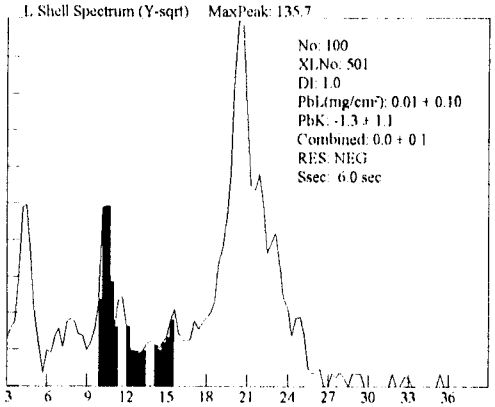

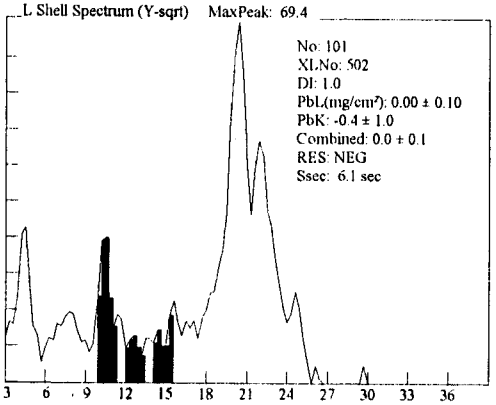

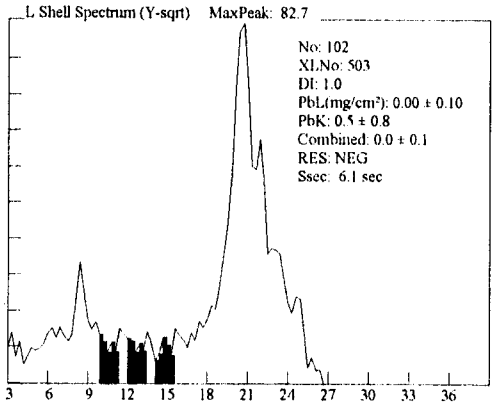

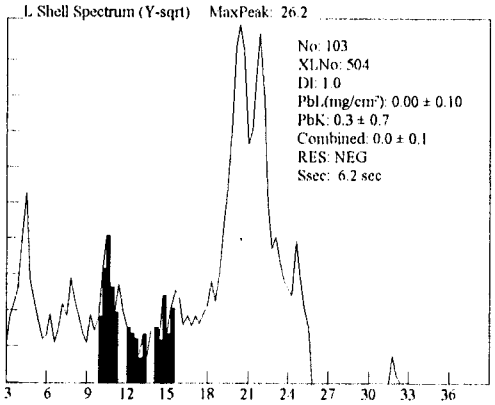

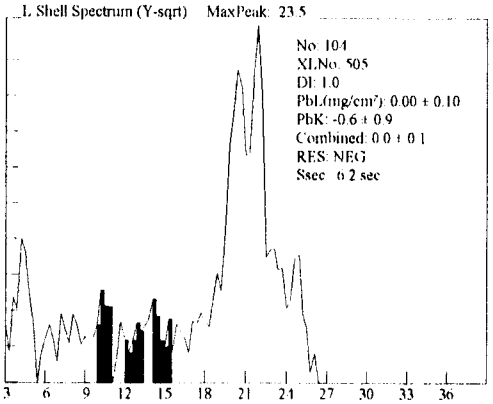

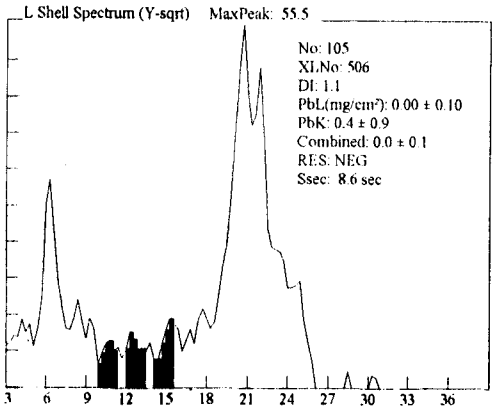

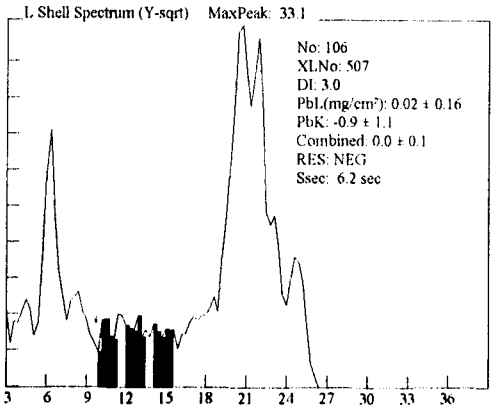

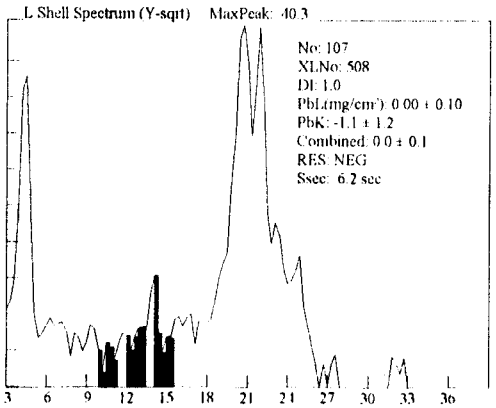

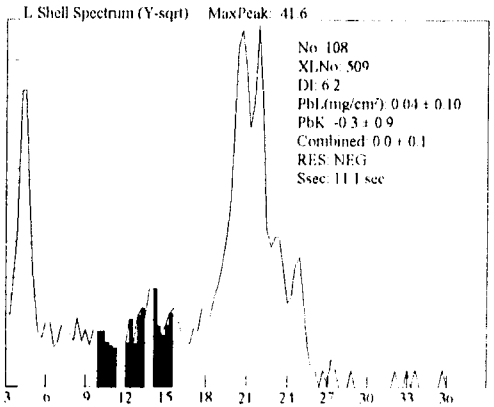

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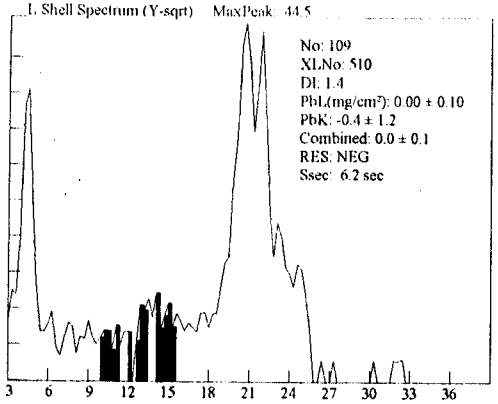

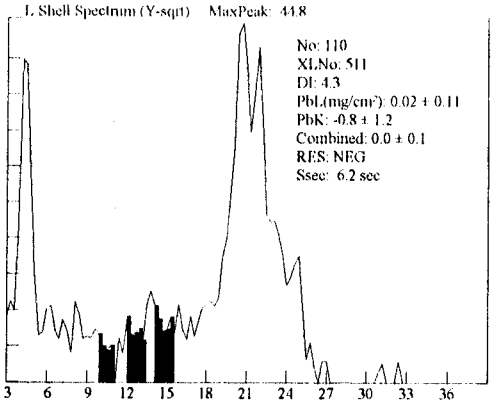

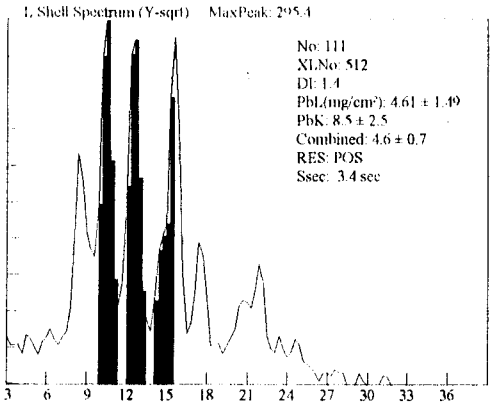

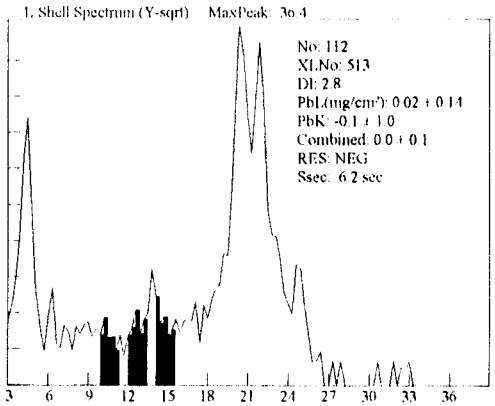

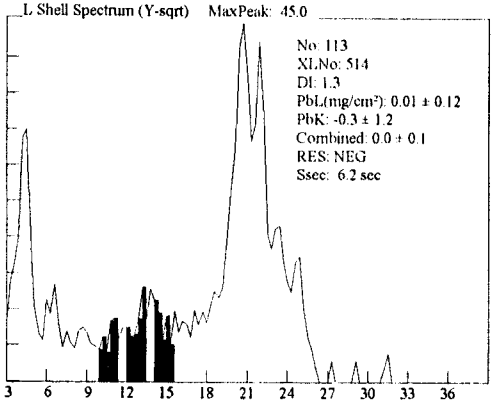

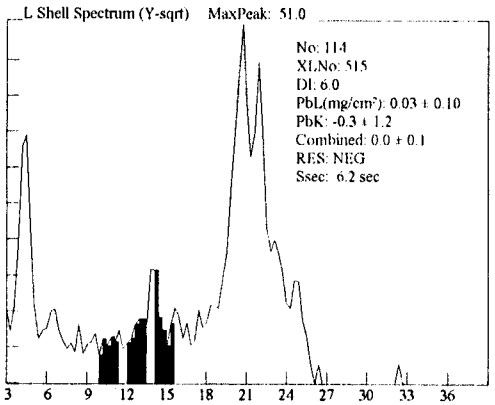

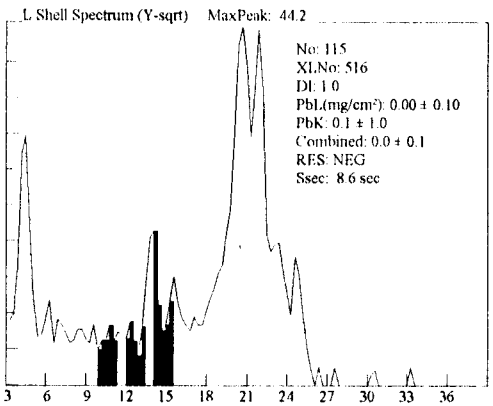

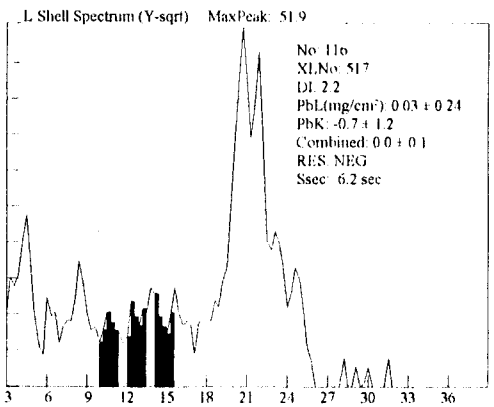

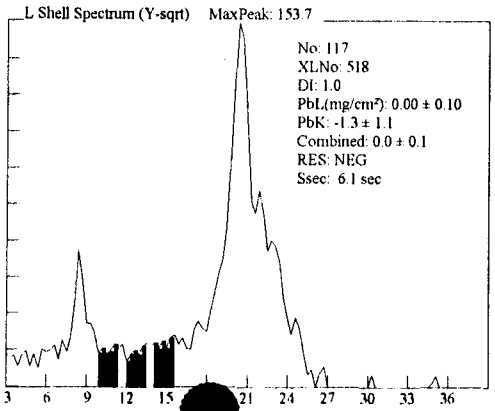

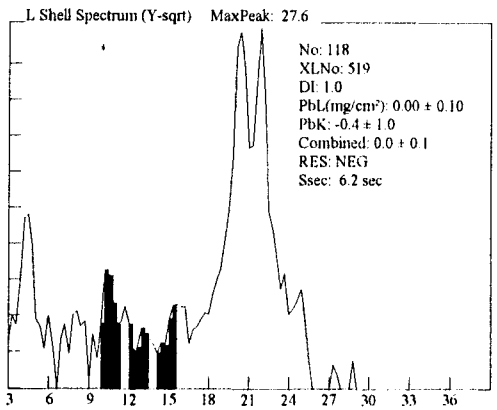

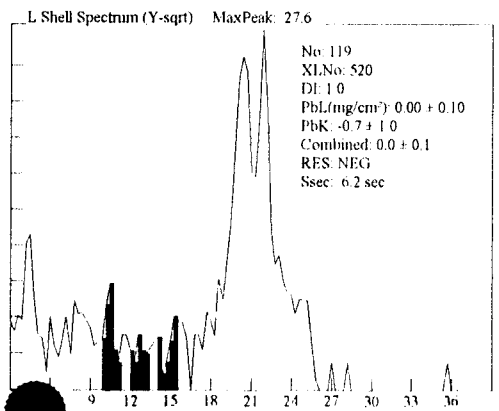

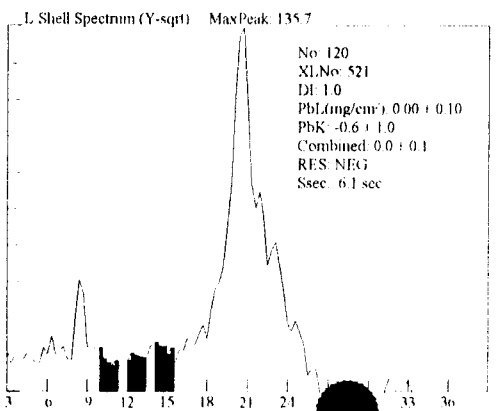

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Site: Ranges (NEG<INC<POS): Device PCS

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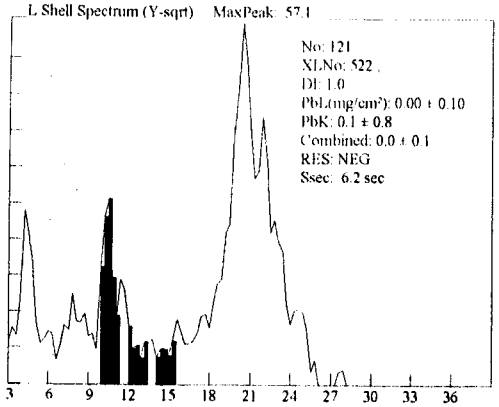

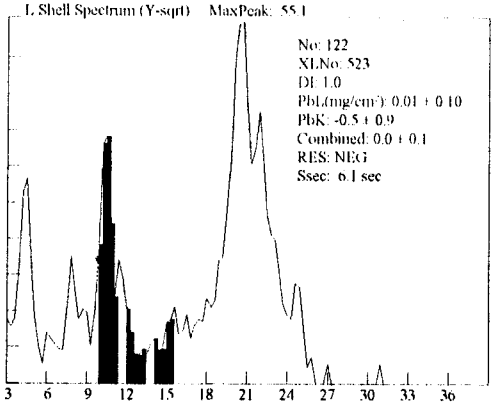

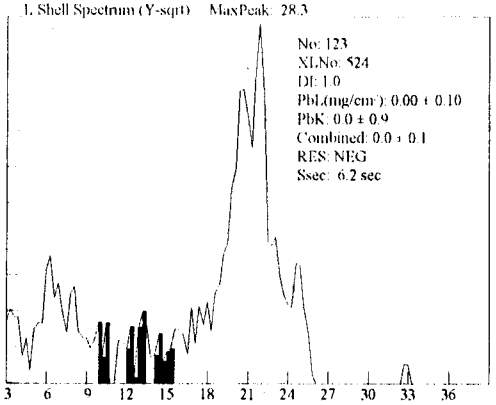

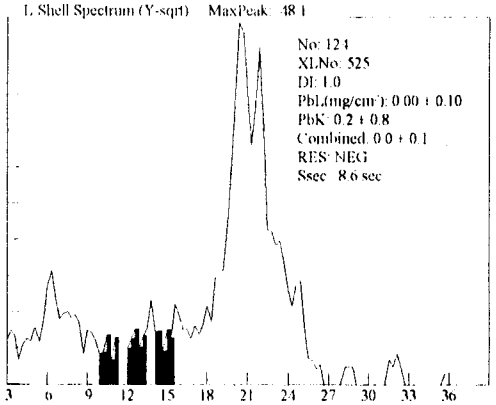

Site Ranges (NEG<INC<POS) Device RCS

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K Shell Spectrum (Y-sqrt) MaxPeak: 9.5

K Shell Spectrum (Y-sqrt) MaxPeak: 11.9
No: 2
XLNo: 403
DI: 1.1
PbL(mg/cm²): 1.19 ± 0.14
PbK: 0.4 ± 0.6
Combined: 1.2 ± 0.1
RES: POS
Ssec: 17.9 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 10.4
No: 3
XLNo: 404
DI: 1.0
PbL(mg/cm²): 1.10 ± 0.10
PbK: 0.4 ± 0.8
Combined: 1.1 ± 0.1
RES: POS
Ssec: 13.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 16.0
No: 4
XLNo: 405
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.0 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 8.5 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 10.3
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.9 ± 0.5
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 16.0 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 14.1
No: 6
XLNo: 407
DI: 3.4
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.5 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.5
No: 7
XLNo: 408
DI: 1.0
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.1 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 11.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.8
No: 8
XLNo: 409
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.1 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 11.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 27.4
No: 9
XLNo: 410
DI: 1.5
PbL(mg/cm²): 0.01 ± 0.10
PbK: 0.3 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 11.0 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 22.8
No: 10
XLNo: 411
DI: 10.0
PbL(mg/cm²): 0.26 ± 0.22
PbK: 3.3 ± 1.2
Combined: 3.3 ± 0.6
RES: POS
Ssec: 8.6 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 21.2
No: 11
XLNo: 412
DI: 10.0
PbL(mg/cm²): 1.53 ± 1.05
PbK: 2.1 ± 0.7
Combined: 2.1 ± 0.3
RES: POS
Ssec: 20.9 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.6
No: 12
XLNo: 413
DI: 10.0
PbL(mg/cm²): 0.54 ± 0.36
PbK: 2.1 ± 0.7
Combined: 2.1 ± 0.4
RES: POS
Ssec: 20.9 sec

57 60 63 66 69 72 75 78 81 84 87 90

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Ranges (NEG<INC<POS), Device POS

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K Shell Spectrum (Y-sqrt) MaxPeak: 25.3

K Shell Spectrum (Y-sqrt) MaxPeak: 25.7
No: 14
XLNo: 415
DI: 1.6
PbL(mg/cm²): 0.05 ± 0.10
PbK: 6.8 ± 2.2
Combined: 2.4 ± 1.4
RES: POS
Ssec: 3.4 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 20.5
No: 15
XLNo: 416
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.4 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 14.1
No: 16
XLNo: 417
DI: 2.8
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.2 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 16.6

K Shell Spectrum (Y-sqrt) MaxPeak: 25.1
No: 18
XLNo: 419
DI: 7.7
PbL(mg/cm²): 0.05 ± 0.10
PbK: 0.3 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 11.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 22.4
No: 19
XLNo: 420
DI: 3.1
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.1 ± 1.0
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 8.6 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.5
No: 20
XLNo: 421
DI: 1.1
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.8 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 25.1
No: 21
XLNo: 422
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -1.0 ± 1.3
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 13.6
No: 22
XLNo: 423
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.2 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 9.2
No: 23
XLNo: 424
DI: 1.3
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.1 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 6.6
No: 24
XLNo: 425
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.2 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

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Site: Ranges (NEG<INC<POS): Device PCS

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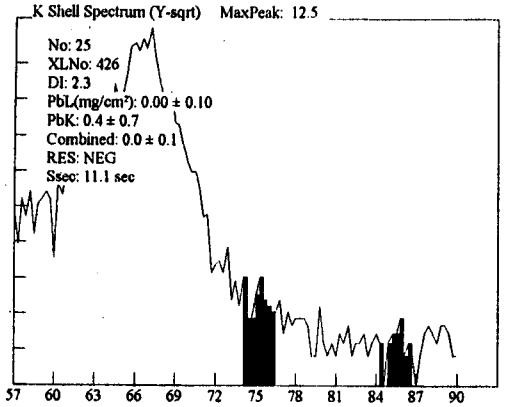

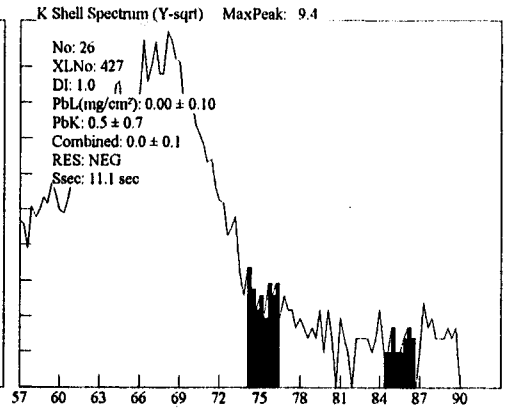

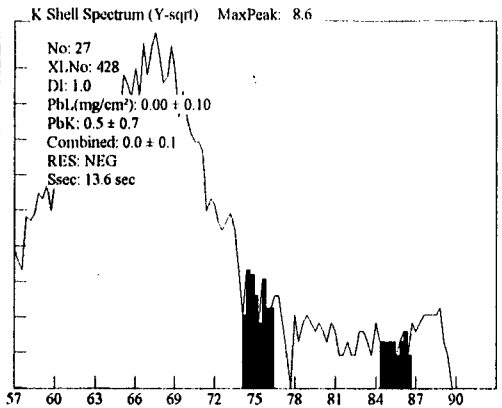

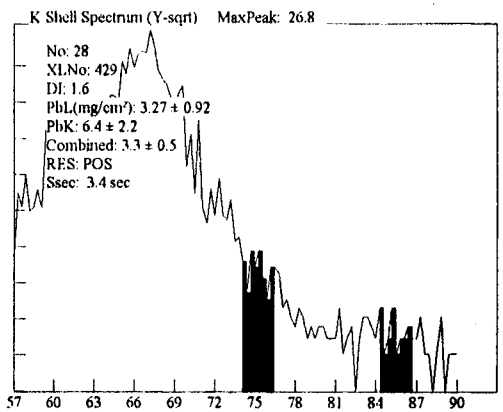

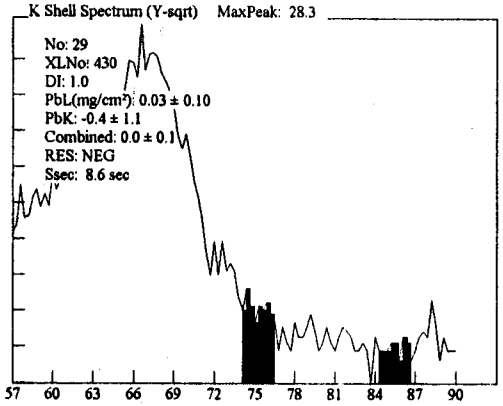

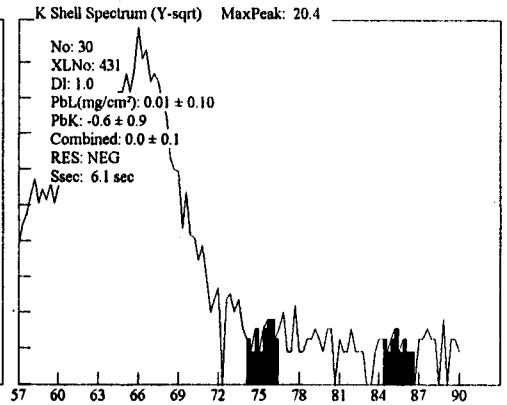

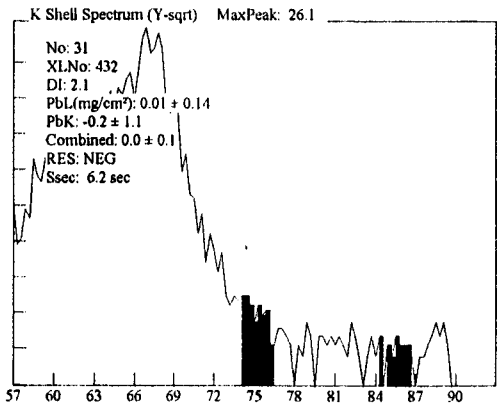

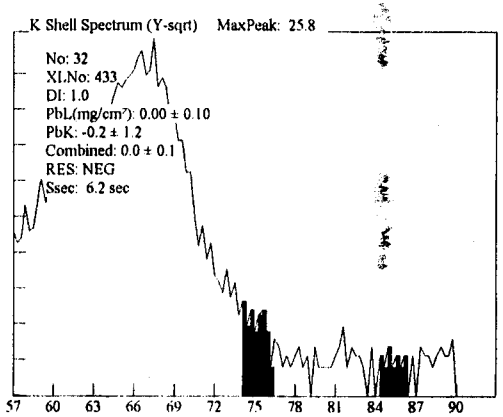

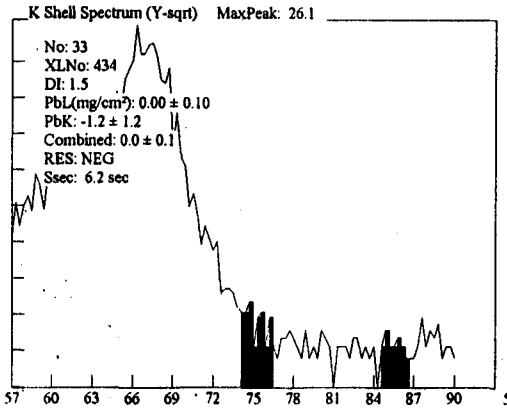

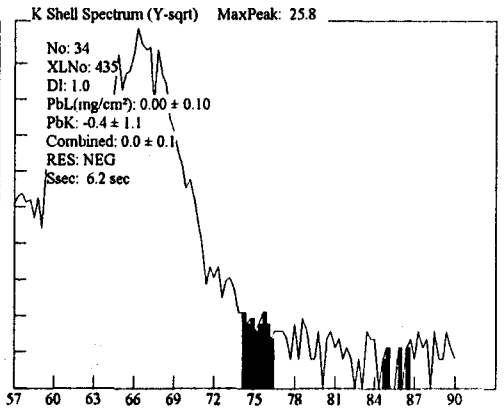

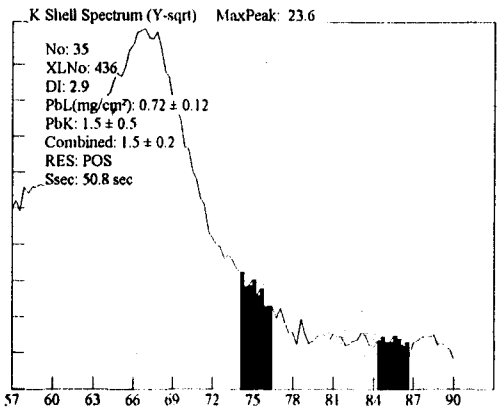

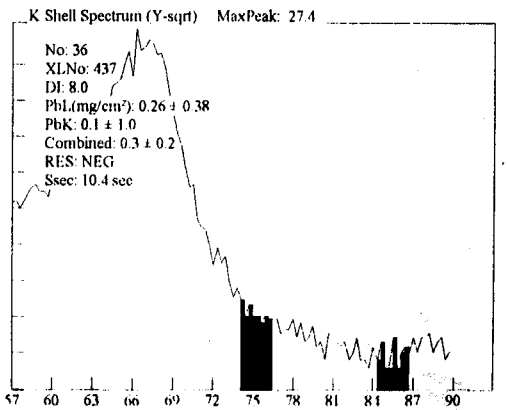

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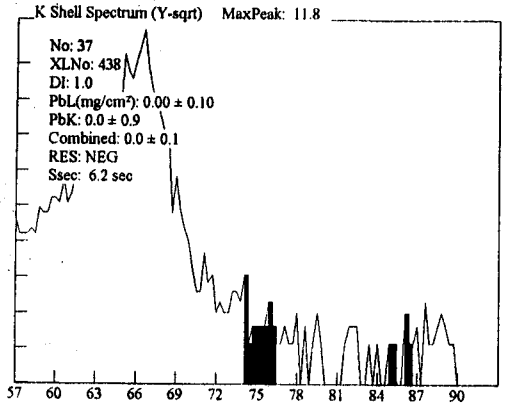

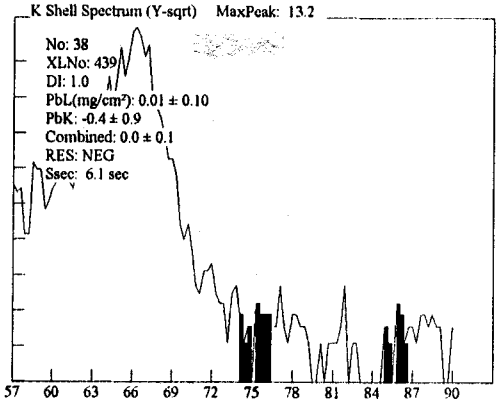

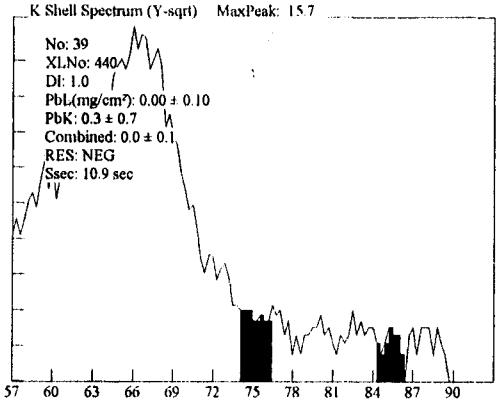

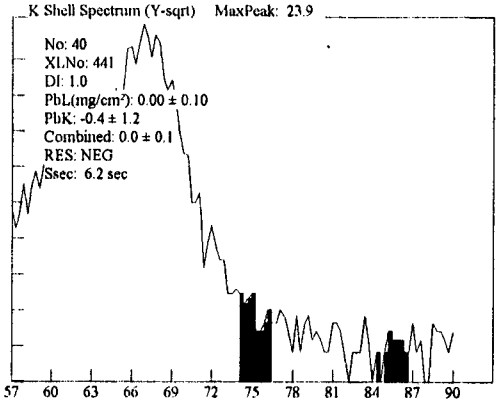

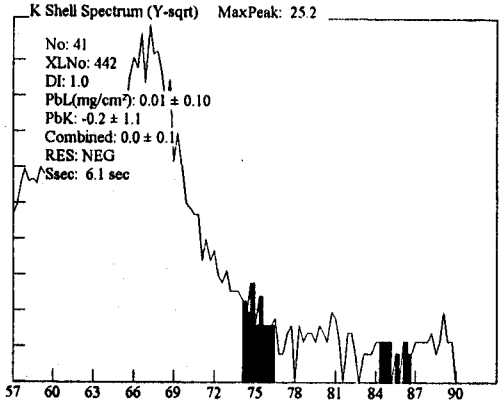

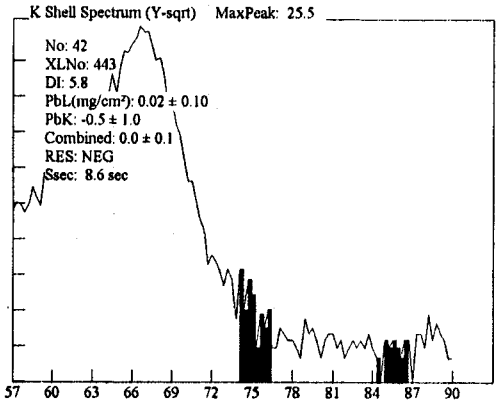

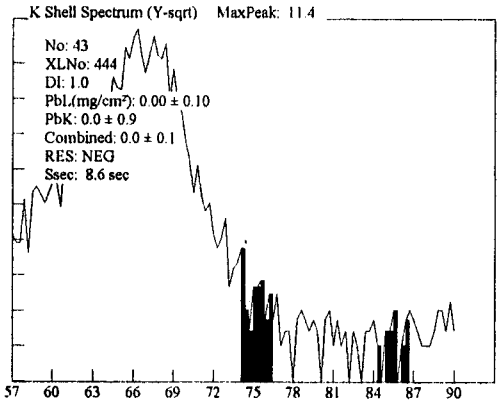

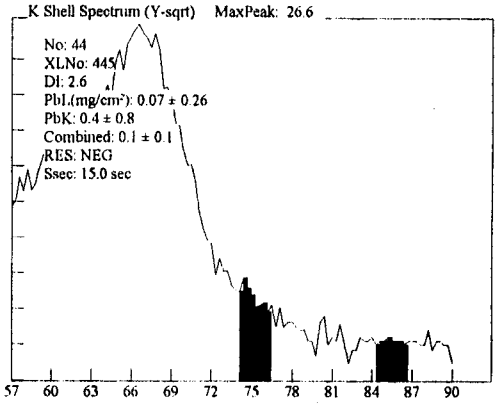

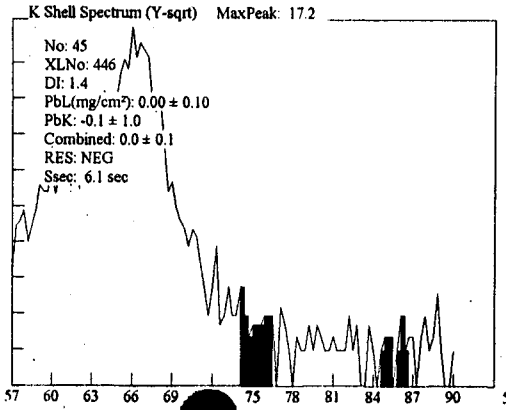

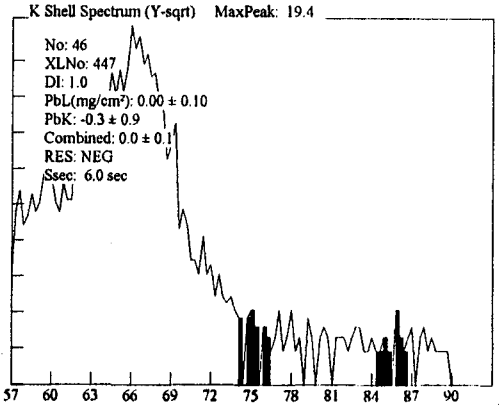

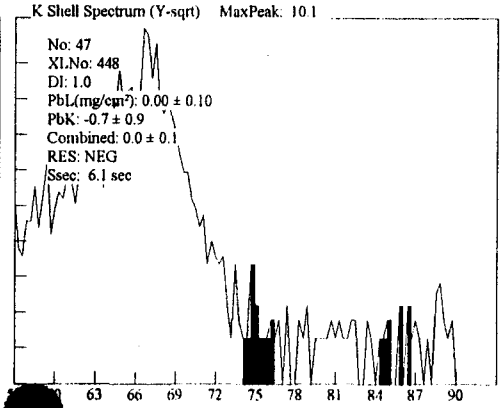

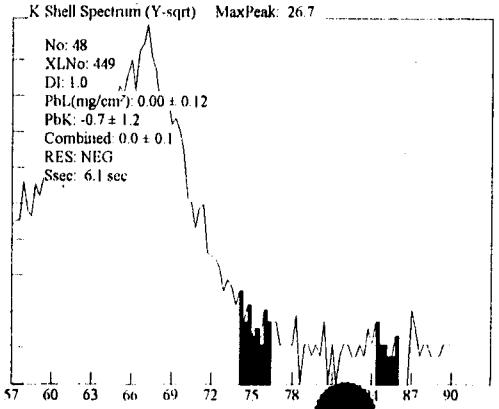

Site Ranges (NEG<INC<POS): Device RGS

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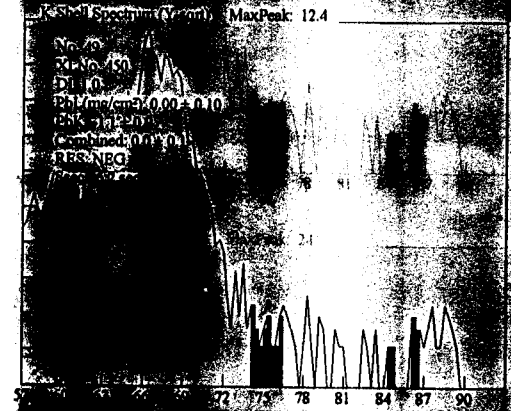

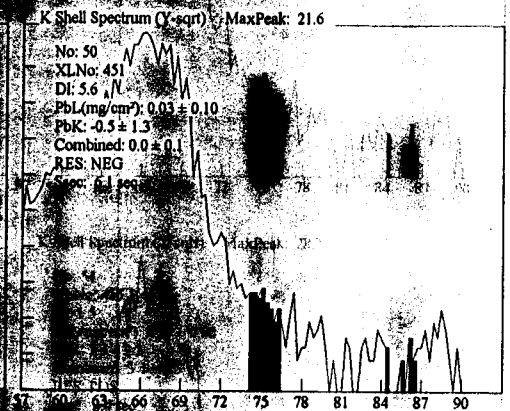

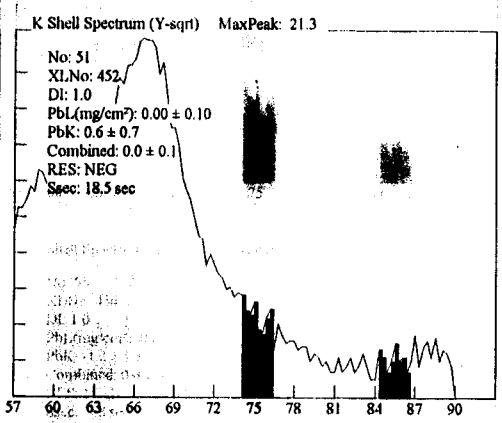

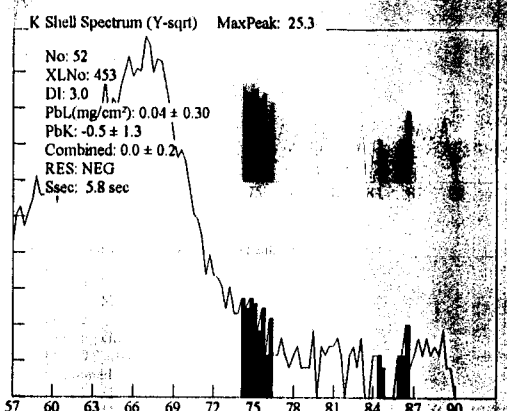

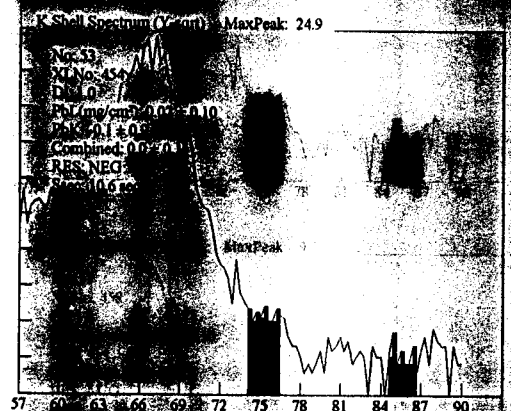

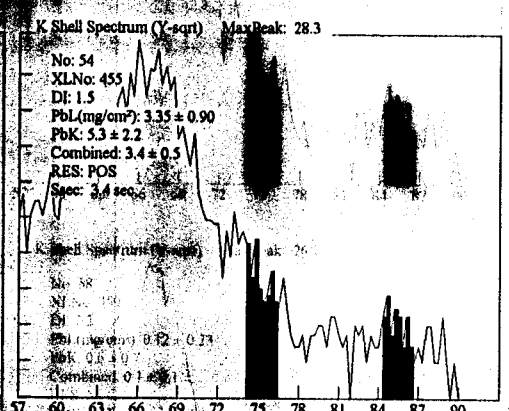

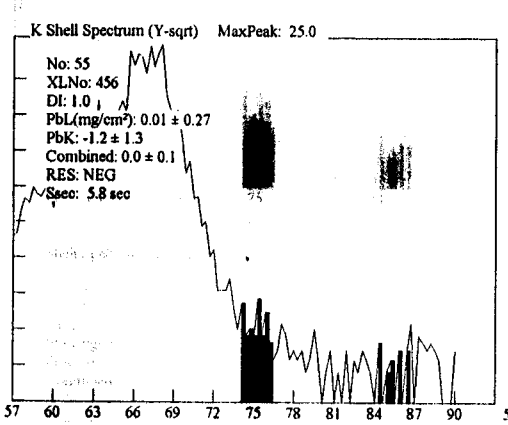

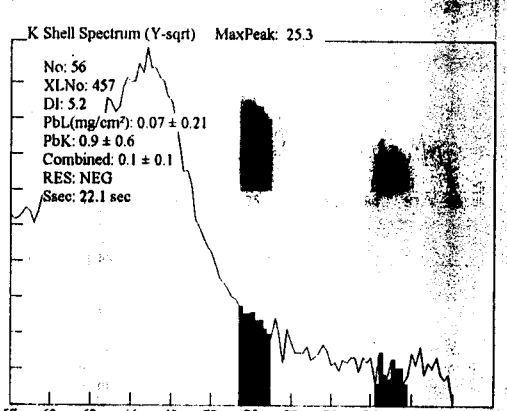

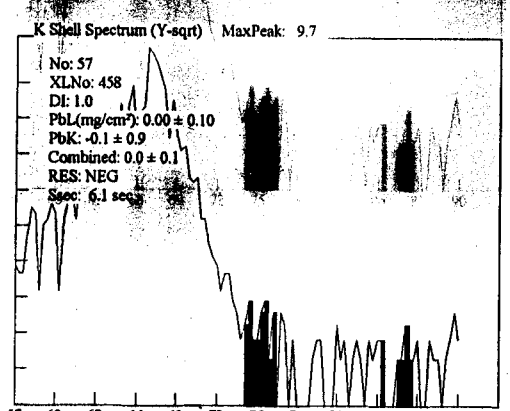

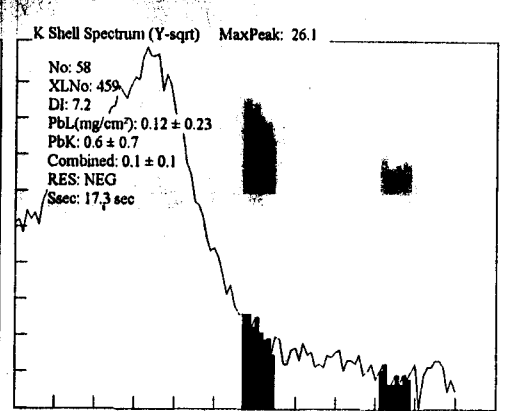

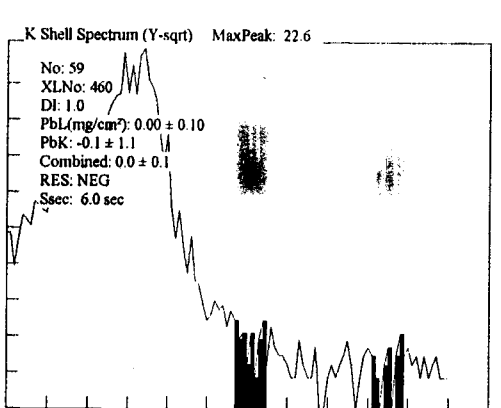

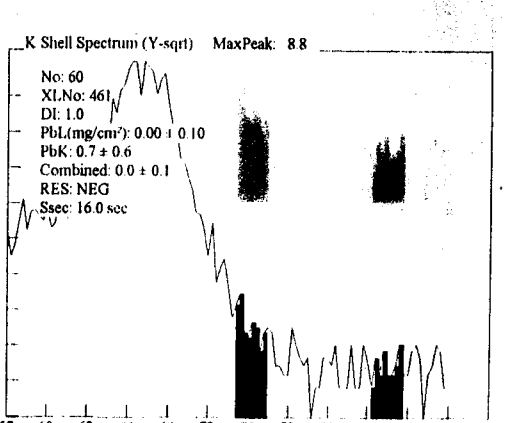

Site Ranges (NEG<INC<POS): Device PCS

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K Shell Spectrum (Y-sqrt) MaxPeak: 6.3

K Shell Spectrum (Y-sqrt) MaxPeak: 6.9
No: 62
XLNo: 463
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.1 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 25.4
No: 63
XLNo: 464
DI: 1.3
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.7 ± 1.2
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.1
No: 64
XLNo: 465
DI: 1.1
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.2 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 25.5

K Shell Spectrum (Y-sqrt) MaxPeak: 9.1
No: 66
XLNo: 467
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.3 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 8.6 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 12.8
No: 67
XLNo: 468
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: 0.4 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 8.6 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 26.9
No: 68
XLNo: 469
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.4 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.1 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 23.7
No: 69
XLNo: 470
DI: 3.0
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.1 ± 0.9
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 13.5 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 25.5
No: 70
XLNo: 471
DI: 3.4
PbL(mg/cm²): 0.01 ± 0.10
PbK: -0.5 ± 0.8
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 13.6 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 25.1
No: 71
XLNo: 472
DI: 1.0
PbL(mg/cm²): 0.00 ± 0.10
PbK: -0.1 ± 1.1
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 6.2 sec

K Shell Spectrum (Y-sqrt) MaxPeak: 24.8
No: 72
XLNo: 473
DI: 2.5
PbL(mg/cm²): 0.01 ± 0.12
PbK: -0.2 ± 1.0
Combined: 0.0 ± 0.1
RES: NEG
Ssec: 8.6 sec

57 60 63 66 69 72 75 78 81 84 87 90

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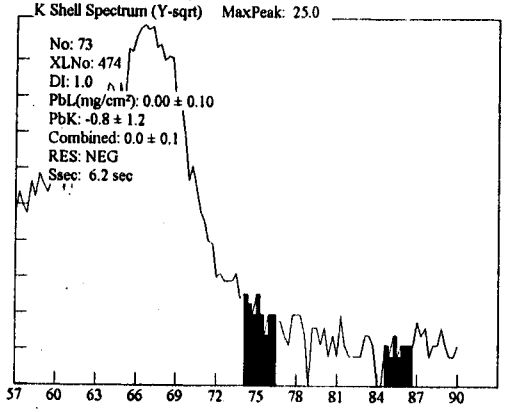

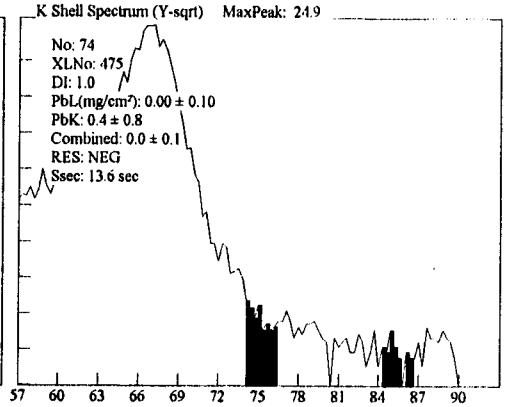

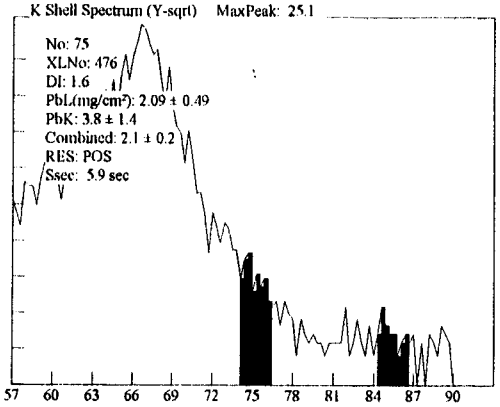

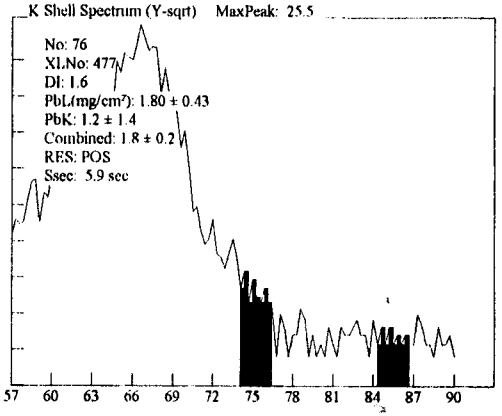

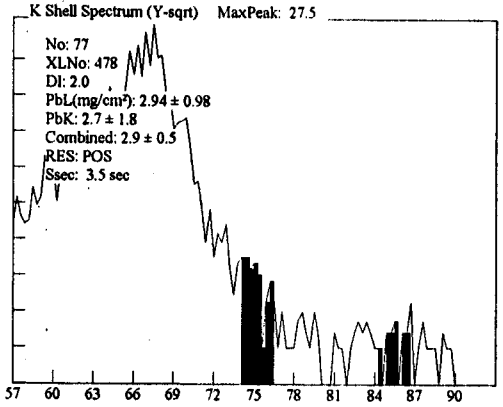

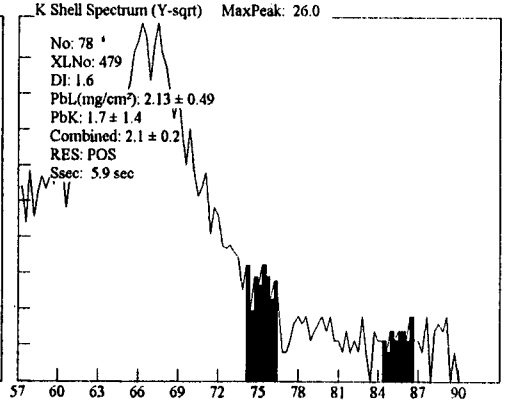

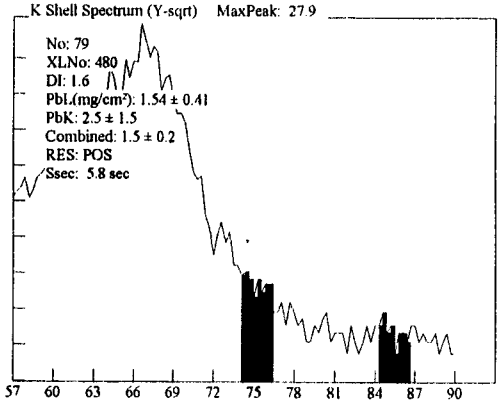

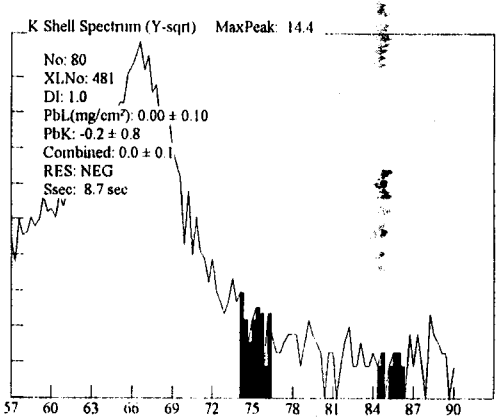

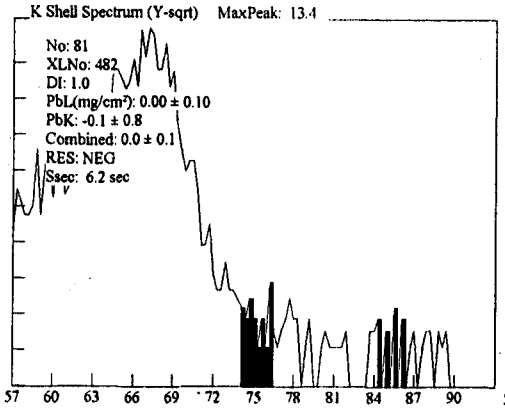

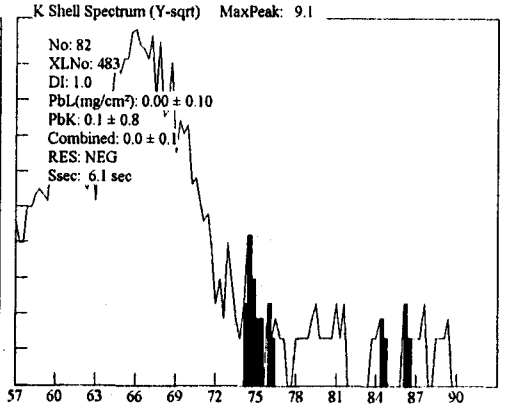

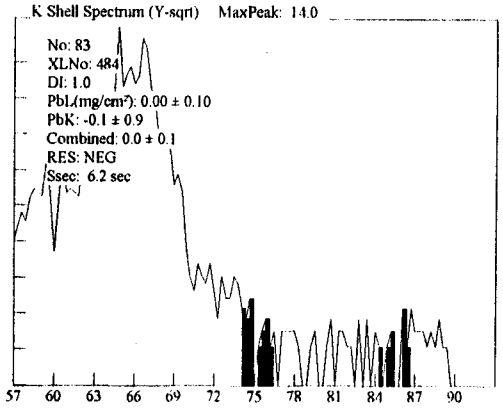

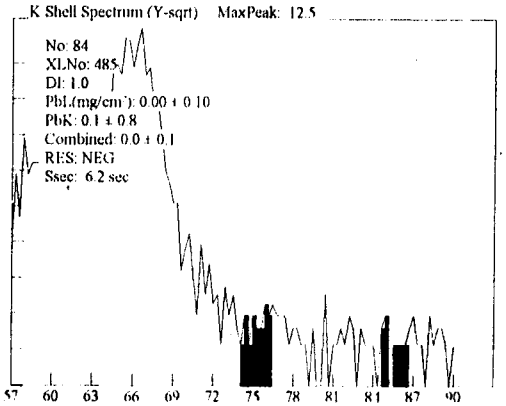

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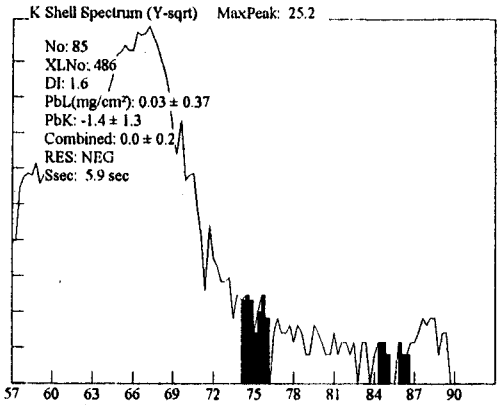

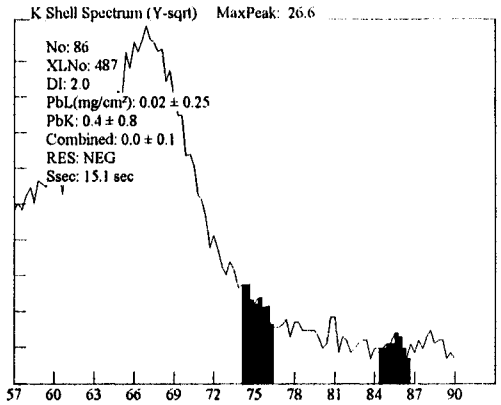

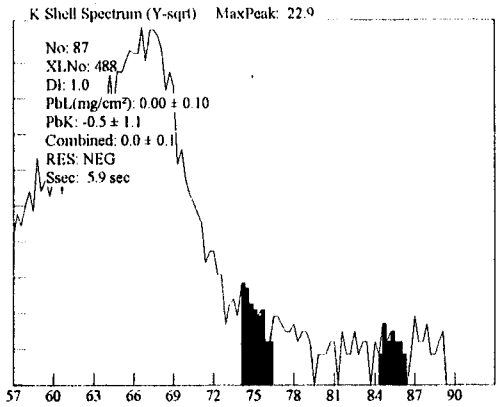

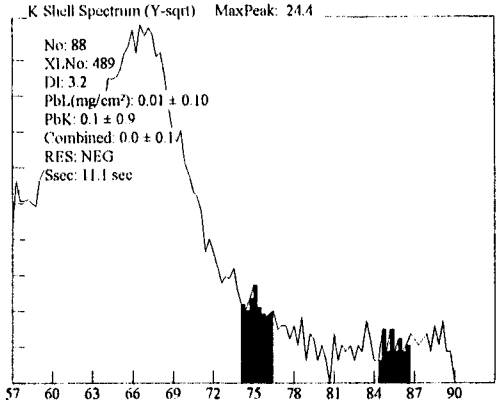

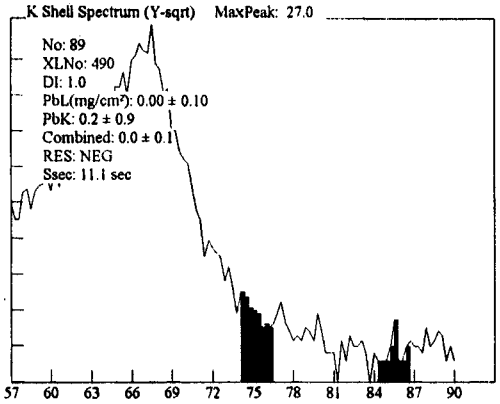

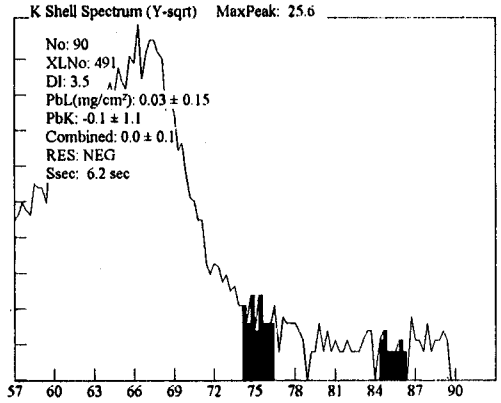

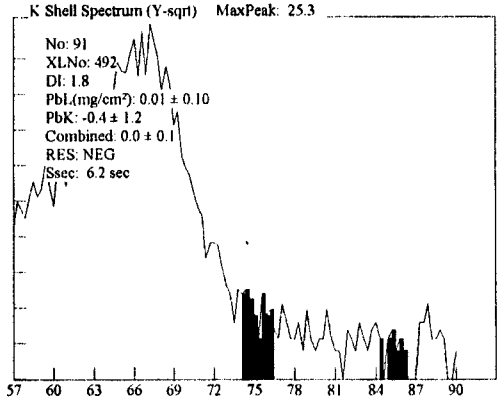

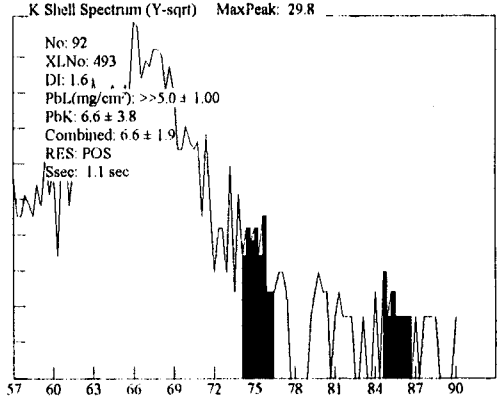

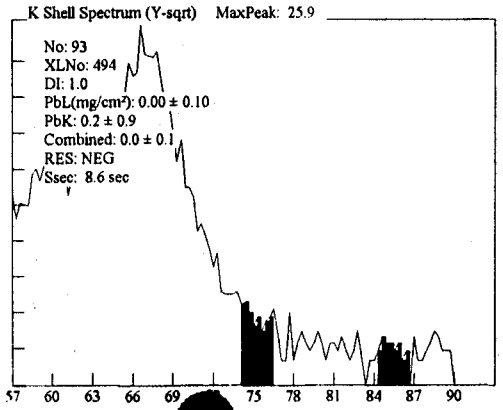

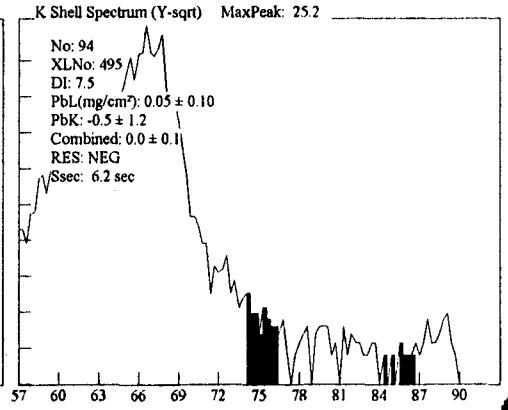

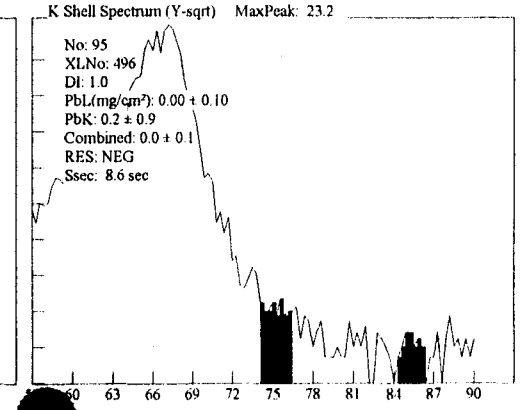

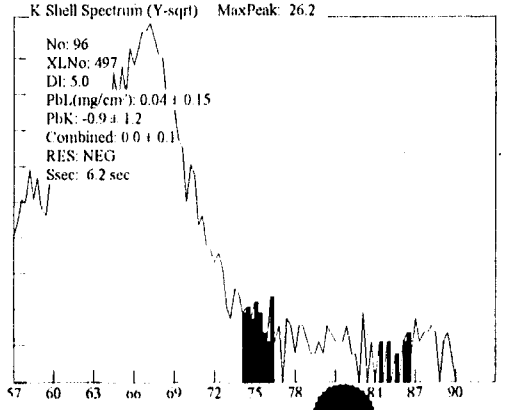

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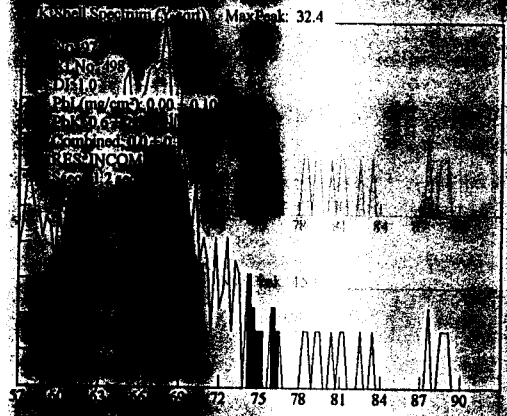

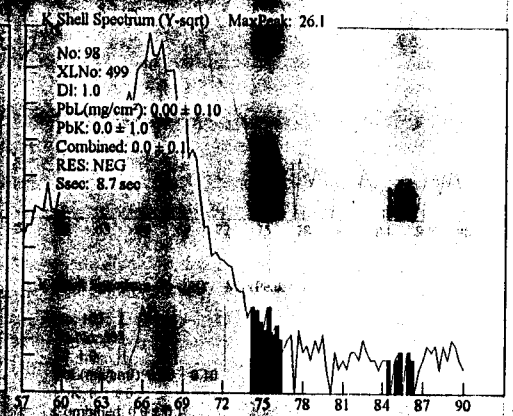

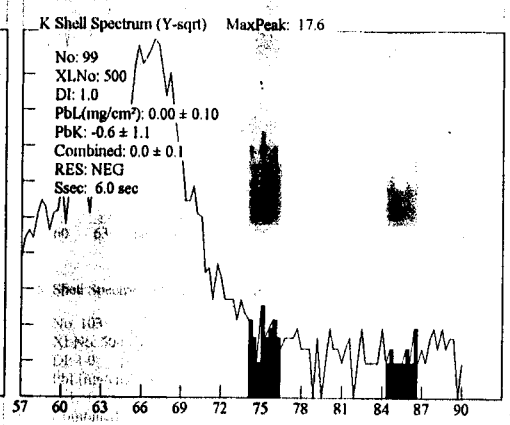

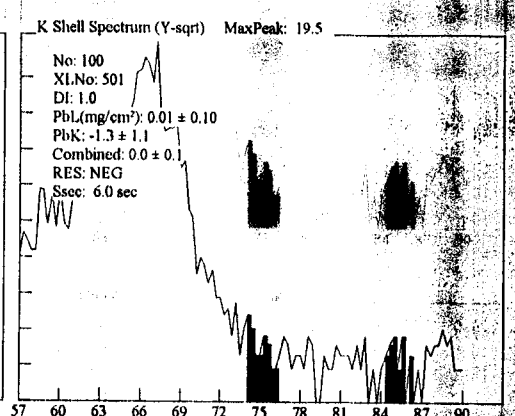

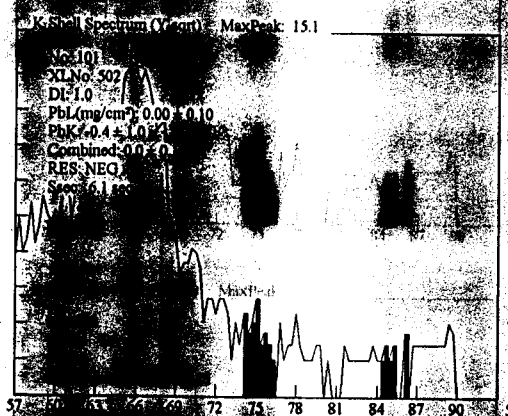

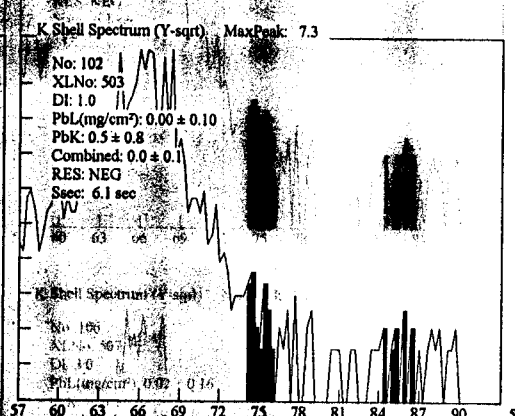

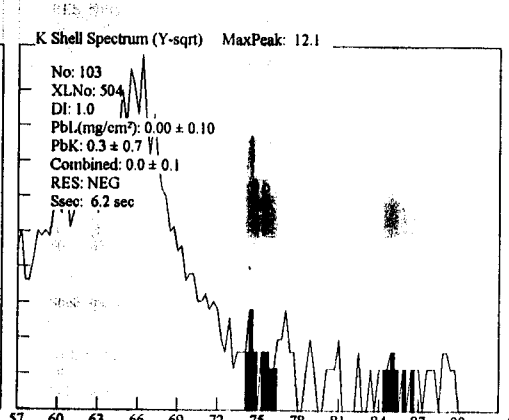

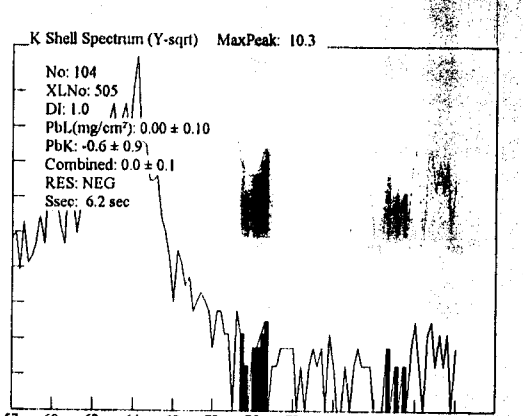

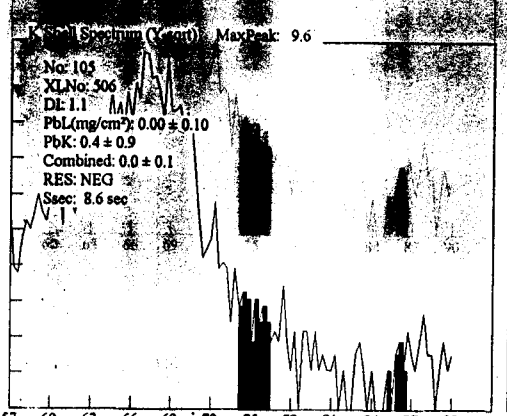

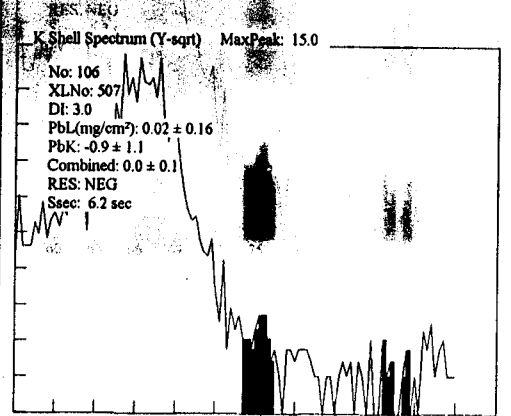

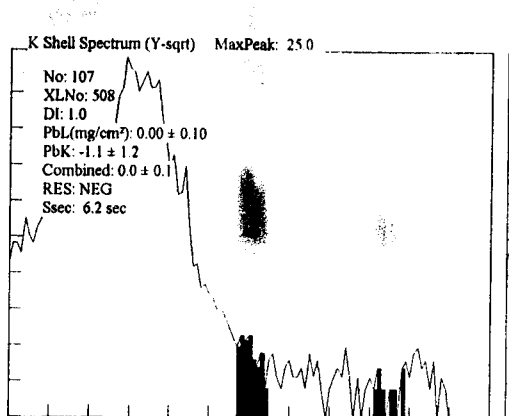

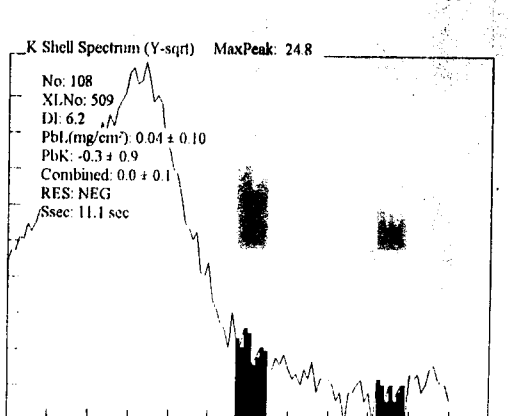

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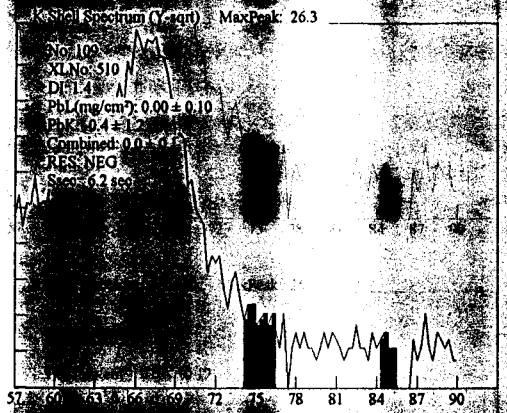

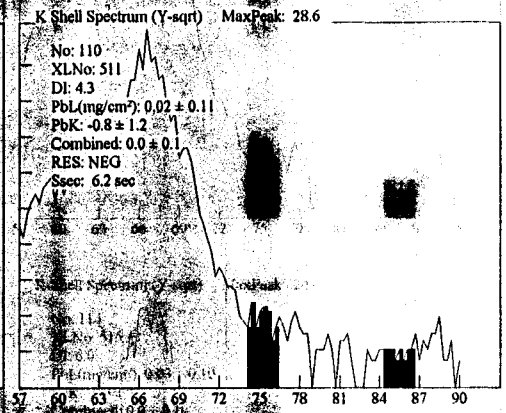

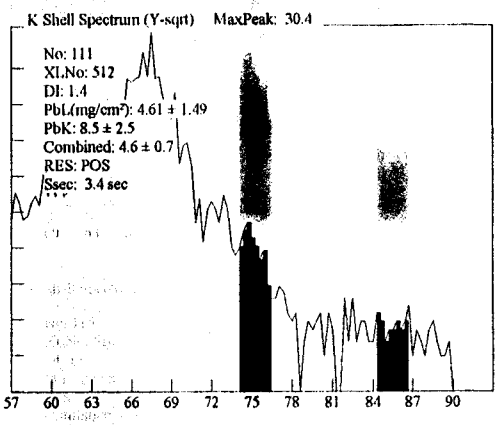

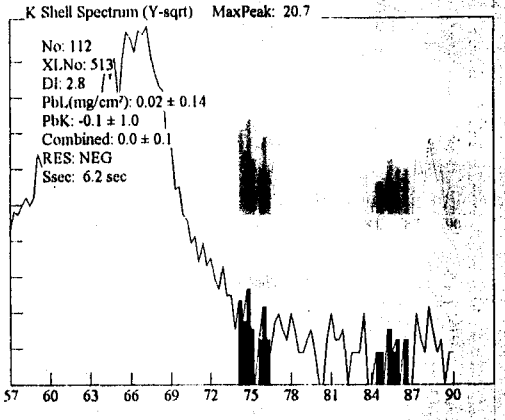

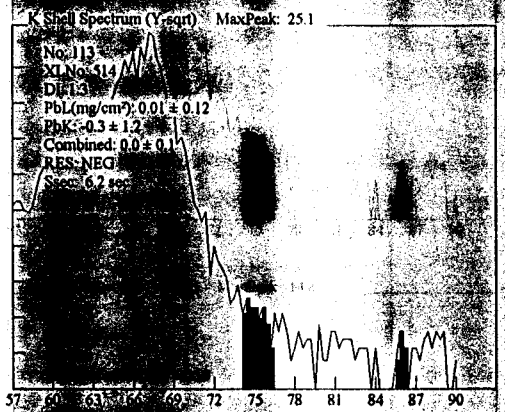

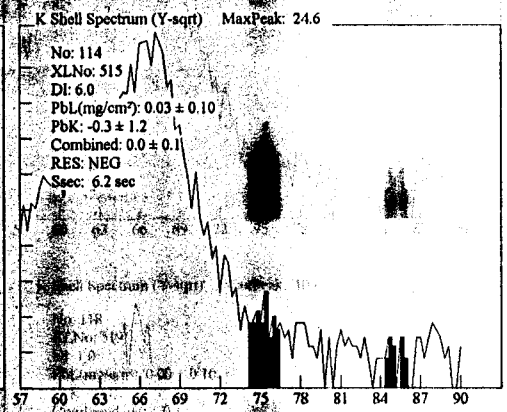

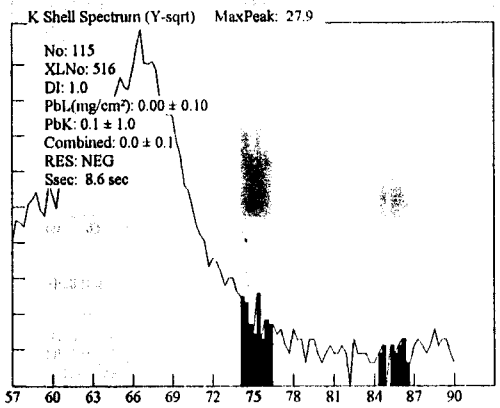

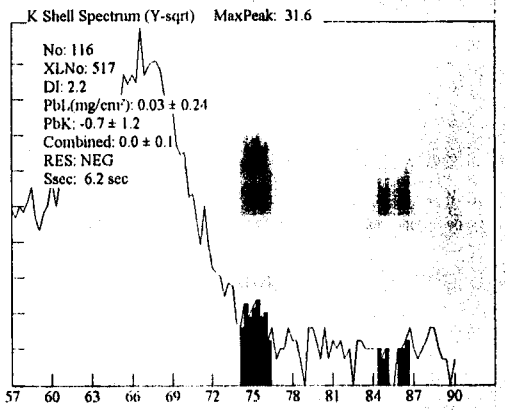

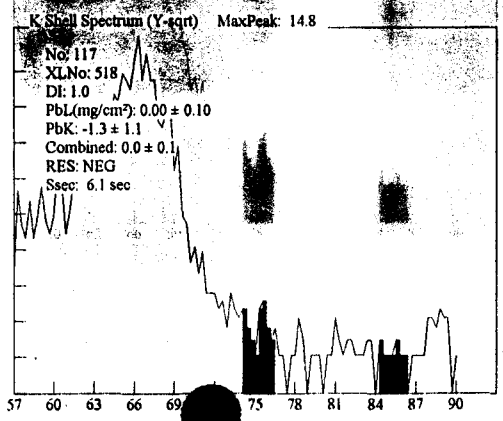

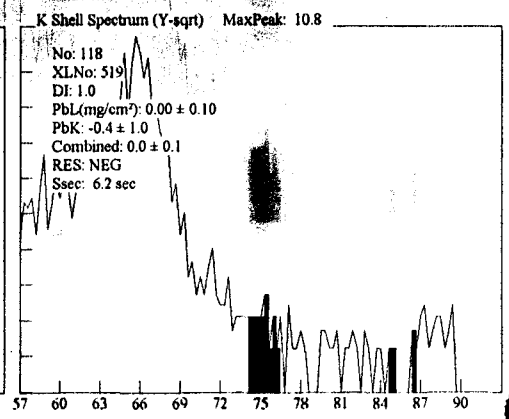

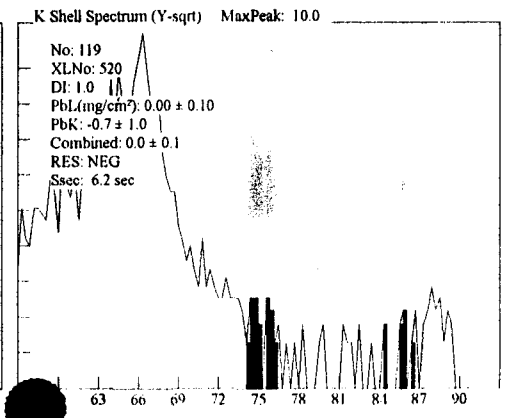

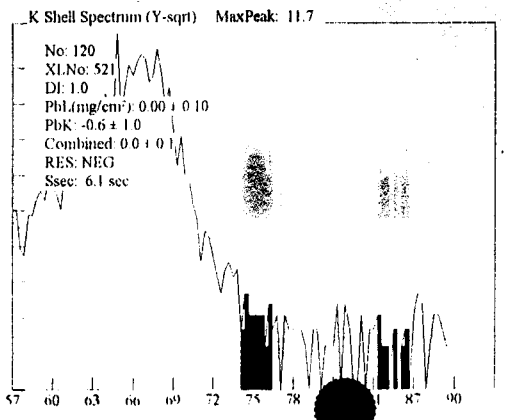

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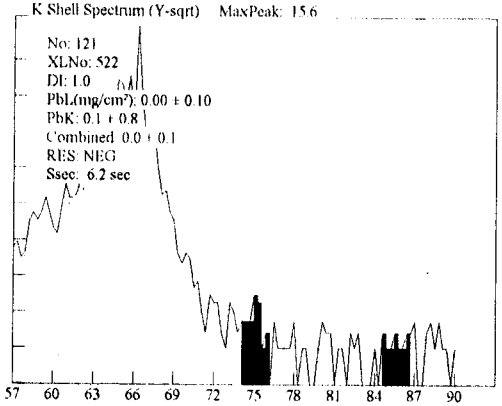
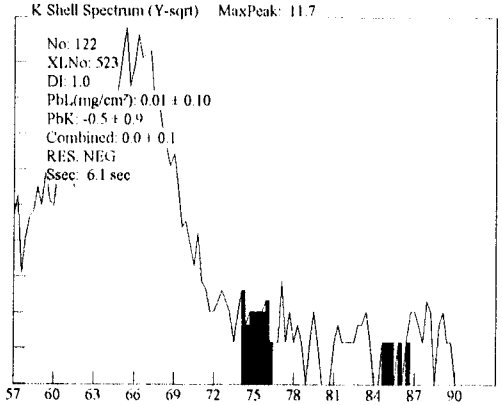
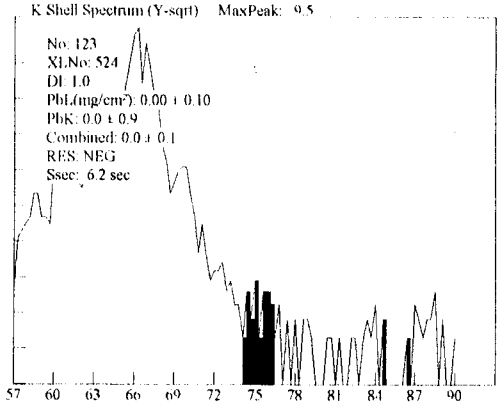
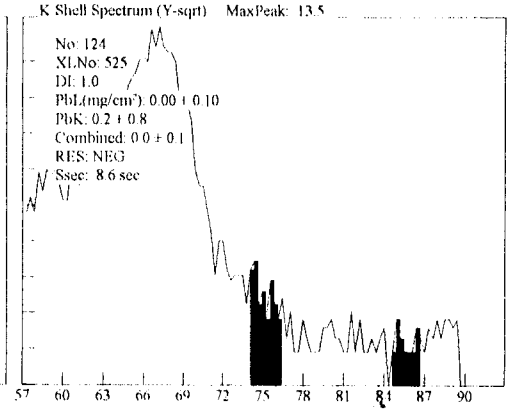








BUILDING 448A

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 448A

A lead-based paint inspection and risk assessment was conducted at Building 448A, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

Building 448 is separated into two apartments, namely 448A and 448B; however, this report will represent only unit 448A. Unit 448B will be described in another section of this report. This housing unit had a resident living in it at the time of the inspection; however, the resident was not present when the inspection was conducted. The neighbor supplied information for the unit and stated that the resident was on a three-week vacation. The condition of the housing unit was fair, and the presence may have appeared average due to the resident's absence.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 204 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Twenty-two (22) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. In addition to the XRF readings, three paint chip samples were collected and analyzed to confirm the lead concentration of selected paints. The three paint chip analyzes confirmed the walls in the kitchen, living room, and den were negative for elevated lead concentrations. According to the EPA, LBP is defined as paint containing a lead concentration greater the 0.5 percent lead by weight. The results of the XRF and the bulk paint chip analyses are summarized by building component in the following pages. The final laboratory reports for the bulk paint chip samples are provided in this report and are summarized in Table 3-2.

The presence of lead-based paint was found in Building 448A. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

Unit 448A

1. Kitchen Den Baseboard
2. Living Room Chair Rail
3. Living Room Baseboard
4. Hallway Baseboard
5. Hallway Chair Rail
6. Room No. 1 Chair Rail
7. Room No. 1 Closet Walls
8. Room No. 1 Doors
9. Bathroom Door & Jambs
10. Room No. 2 Door & Jambs
11. Room No. 2 Window Sills
12. Room No. 2 Chair Rail
13. Room No. 2 Closet Door & Jambs
14. Den Jambs

15. Exterior Walls
16. Exterior Steps
17. Porch/Laundry Walls
18. Porch Storage Room Door & Jambs
19. Porch Walls
20. Kitchen Door Jambs
21. Kitchen Chair Rail
22. Kitchen Baseboard

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. To evaluate areas of dust within the housing unit, fourteen (14) wipe samples were collected, including eleven interior wipes, two entrance wipes, and one control wipe sample. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. Six (6) of the wipe samples (four interior wipes and two entrance wipes) were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. As also reported in the unit 448B report, the soil sample was reported to contain a low lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Deteriorated lead-based paint and leaded dust in front entrance porch
3. Deteriorated lead-based paint on bathroom door and leaded dust in the hallway
4. Leaded dust in room no. 2
5. Leaded dust throughout the kitchen, den, living room, porches, and foyer

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in fair condition. The paint deterioration is mainly exterior, and there are many building components, which contain lead-based paint. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Dust levels were reported to be higher in the den, room no. 2, hallway, and the front porch. DOD/EPA guidelines for dust hazards list the criterion level of 40 ug/sq. ft
3. The high dust levels appear to be caused by deteriorated paint and below average maintenance, such as cleaning. These items should be addressed.
4. Notification of this investigation to the BOP resident is required. A debrief of the potential problems should be provided.
5. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust in the building's exterior.
6. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
7. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
8. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
9. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished.
10. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
11. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
12. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

LEAD HAZARD CONTROL OPTIONS

1. The name of the individual (s) in charge of the lead based hazard control program is/are: _____, _____
2. Recommended changes to work order system and property management: (Items from number 2-7 of this section) The work order system of the BOP is activated by resident comments and requests, they do not actively have a program that addresses lead based paint and it's hazards. We recommend that before any work is performed on any painted surface, they verify in the report if this building component has lead based paint. If it does not, then proceed with the work. If it does then the work should be performed by personnel trained in lead based paint work, even if it is routine maintenance work. Work order forms shall be custom made to include a space where the person who verifies the presence or not of lead based paint signs confirming the research. A space will also be provided so the person who performs the work will acknowledge that his work was confined to those areas where there was no lead based paint.
3. If at any time work is performed by a qualified individual or firm, it is important to verify worker training and medical qualifications verification. Also the firms and individuals performing this work shall be registered with the PREQB Lead Program if abatement is to be performed. Please verify the PREQB rules included in this report.
4. Before any work is performed at this building the work areas will be sealed off so that the leaded dust does not enter any living areas. Any furniture present should be moved or covered with plastic.
5. If at any time abatement is performed then clearance samples are required prior to reoccupy the housing unit. Other air monitoring requirements apply to workers, please verify the OSHA section of this report for additional information.
6. Ceramic floor and wall tiles, sinks, toilets and bathtubs are not considered a lead hazard, although they have high lead content. The only concern would be if the building is going to be demolished, then PREQB requires their removal prior to demolition. An exception may be if you are if you are going to sample and analyze the demolition debris by a TCLP sample prior to disposal. (A TCLP is a sample that characterises the materials for possible hazardous characteristics)
7. Both the residents and maintenance personnel should attend a general awareness class in lead based paint hazards. This class offers information on the use of HEPA vacuum cleaners, personal protective clothing, respirator use, medical surveillance and other lead related issues. Baker Environmental can assist in these classes.
8. The practice of examining the paint condition annually or upon vacancy is performed by the BOP, it should be continued.
9. Interim Control Options and Estimated Costs: (Items 9-17) The costs below include labor, materials, worker protection, site containment and cleanup.

Building 448A

These are only rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead based paint abatement contractor. Baker Environmental will be pleased to perform clearance testing after the work has been completed at your request.

10. To better calculate the amounts of linear feet, square feet, individual doors, frames, shelves or others; please refer to the approximate quantities information available in the sampling data sheet of this building report. Once you have these quantities then multiply by the unit prices that follow. (Example: Removal of lead based paint in all exterior building walls. Sample data sheet has a quantity of approximately 3,800 square feet @ $12.00 per square foot of removal = $45,600.00 for the removal of the exterior lead based paint of Building 448-A)
11. Lead Based Paint Removal (Mechanical or Chemical) $ 12.00 ft2
12. Lead Based Paint Encapsulation $ 6.00 ft2
13. Door Removal $175.00 ea
14. Door Frame Removal $ 85.00 ea
15. Ceramic Tile Removal $ 15.00 ft2
16. Shelf & Base Removal $ 55.00 ea
17. Baseboard Removal $ 10.00 lin ft
18. Reevaluation and Monitoring Schedule: Any of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead hazards do not appear. Keep in mind that encapsulation can only be considered permanent abatement if the encapsulant manufacturer and the "installer" can guarantee the product and it's application for twenty years. If this is not established then you have only an interim control which may be less expensive in the short run but more expensive than removal in the long run due to continuous reevaluation and monitoring. Removal methods need no reevaluation or additional monitoring. The owner should monitor the condition of the paint annually. A professional reevaluation is also needed. The standard schedule for reevaluating the dwelling is shown below.

Unadjusted Standard Reevaluation Schedules Recommended By HUD

Hazard Control Method	Standard Reevaluation Schedule[1]	Type of Reevaluation
Dust Removal	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Paint Film Stabilization	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Encapsulation	1 month, 6 months; annually thereafter	Visual Examination of Encapsulant Integrity
Enclosure	Annually	Visual Examination
Removal of All Lead-Based Paint	None	None
Building Component Replacement	None	None

[1] Taken from Table 6.1 of the HUD *Guidelines*.

Building 448A

Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program: When the US Navy decides the control options to put in place they will be incorporated into the evaluation report. When this is completed then it will be necessary to meet with anybody residing in the housing unit and explain this report to him/her. This is the time also to make formal delivery the EPA lead pamphlet which is part of this evaluation report. Once these have been done, then signatures of the risk assessor and the US Navy are required.

Signatures:

_____ _____

Department of the Navy Authorized Representative Date

_____ _____

Miguel A. Oliveras - Certified Inspector/Risk Assessor Date

When all the selected hazard control options have been completed then a Certificate of Lead Based Paint Compliance will be issued stating that "Either no lead based paint hazards were identified or all lead based paint hazards have been corrected.

Building 448A

BUILDING DATA

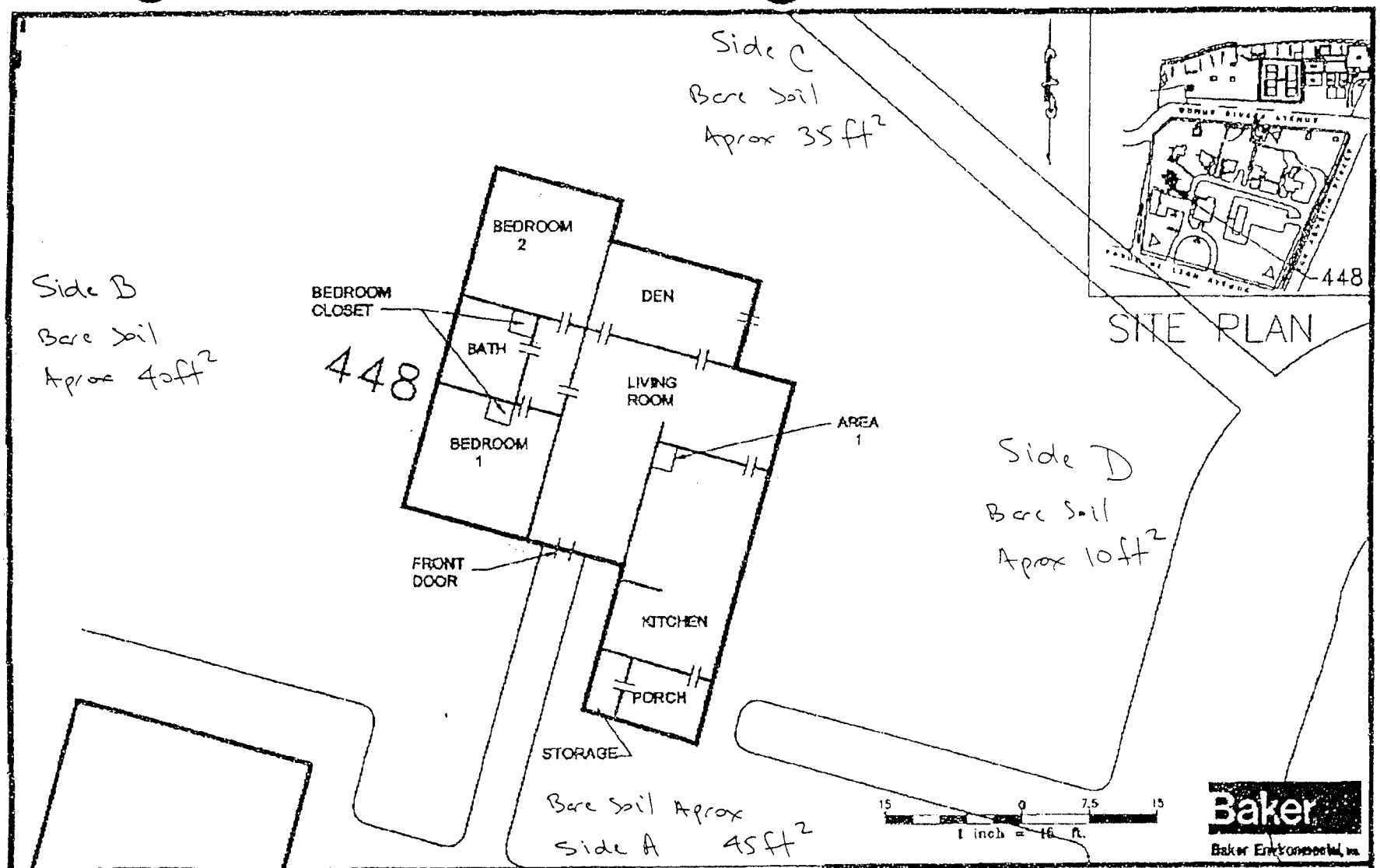
Building 448A

Form 5.1
Building Condition Form

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks		X
Gutters or downspouts broken	X	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		N/A
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		X
Exterior siding has missing boards or shingles		N/A
Water stains on interior walls or ceilings	X	~~X~~ NO
Plaster walls or ceilings deteriorated		X
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structure leans, or visibly unsound		X
* Total number	3	6

* If the "Yes" column has two or more checks, the dwelling is usually considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen.

Notes:



Bare Soil Quantities and Location ☐

Composite Soil Sampling Locations ☒

April 2000

Miguel A. Olivras

STOP 7-1/2 BUILDING 448A
RESIDENT BUILDING
FIRST FLOOR

SAN JUAN, PUERTO RICO

82470L43 K:\82470\001PHASE\GRAPHICS\CAD

Building 448 A

Mr. Jerry Saline
(Information provided by neighbor Mimi Potts)

Form 5.0
Resident Questionnaire
(To be completed by risk assessor via interview with resident.)

Children/Children's Habits

1. (a) Do you have any children that live in your home? Yes _____ No ✓
(If no children, skip to Question 5.)
(b) If yes, how many? N/A Ages? _____ _____ _____ _____ _____
(c) Record blood lead levels, if known. N/A _____ _____ _____ _____
(d) Are there women of child-bearing age present? Yes _____ No ✓

2. Location of the rooms/areas where each child sleeps, eats, and plays.

Name of child	Location of bedroom	Location of all rooms where child eats	Primary location where child plays *indoors*	Primary location where child plays *outdoors*
N/A				

3. Where are toys stored/kept? _____

4. Is there any visible evidence of chewed or peeling paint on the woodwork, furniture, or toys?
Yes _____ No _____

Family Use Patterns

Information not available

5. Which entrances are used most frequently? _____
6. Which windows are opened most frequently? _____
7. Do you use window air conditioners? If yes, where? _____
(Condensation often causes paint deterioration)
8. (a) Do any household members garden? Yes _____ No _____
(b) Location of garden. _____
(c) Are you planning any landscaping activities that will remove grass or ground covering? Yes _____ No _____
9. (a) How often is the household cleaned? _____
(b) What cleaning methods do you use? _____
10. (a) Did you recently complete any building renovations? Yes _____ No _____
(b) If yes, where? _____
(c) Was building debris stored in the yard? If yes, where? _____
11. Are you planning any building renovations? If yes, where? _____
12. (a) Do any household members work in a lead-related industry? Yes _____ No _____
(b) If yes, where are dirty work clothes placed and cleaned? _____

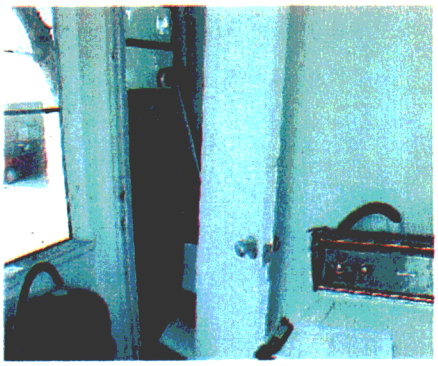
U. S. Navy Building 448

Photograph #1

Photograph #2

Photograph #3

Photograph #4



Photograph #5

Photograph #6

BAKER ENV[illegible]ENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

448A

PC = paint condition
DT = deterioration type
QTY = Quantity
LF = linear feet
ft = square feet

I = [illegible]part
F = fair
P = poor
FRI = friction
IMP = Impact
MOI = Moisture

Client Name: Department of the Navy	Project Name: Stop 7 1/2 Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-1854	Calibration test					1	448A	pos.		
PB-1855	Calibration test					1	448A	pos.		
PB-1856	Calibration test					1	448A	pos.		
PB-1857	Calibration test					1	448A	pos.		
PB-1858	Calibration test					1	448A	pos.		
PB-1859	Calibration test					1	448A	pos.		
PB-1867	Porch laundry wall	40 ft	white	A	concrete	1	448A	pos.	I	
PB-1868	Porch laundry wall	50 ft	white	B	concrete	1	448A	pos.	P	subst
PB-1869	Porch laundry wall	50 ft	white	C	concrete	1	448A	pos.	P	subst
PB-1874	Porch storage door (exterior)	1 ea	white	B	wood	1	448A	pos.	F	MOI
PB-1875	Porch storage door (interior)		white	B	wood	1	448A	pos.		
PB-1878	Porch laundry wall storage	35 ft	white	A	concrete	1	448A	pos.	F	subst
PB-1880	Porch laundry wall storage	40 ft	white	C	concrete	1	448A	pos.	F	IMP
PB-1888	Kitchen door sidejam (exterior)	1 ea	white	A	wood	1	448A	pos.	F	FRI
PB-1889	Kitchen door sidejam (interior)		bone white	A	wood	1	448A	pos.		
PB-1890	Kitchen door headjam (exterior)	1 ea	white	A	wood	1	448A	pos.	F	FRI
PB-1891	Kitchen door headjam (interior)		bone white	A	wood	1	448A	pos.		
PB-1897	Kitchen wall chair rail	25 lf	brown	B	concrete	1	448A	pos.	I	
PB-1898	Kitchen wall chair rail		brown	B	ceramic	1	448A	pos.		
PB-1900	Kitchen wall baseboard	20 lf	brown	B	wood	1	448A	pos.	F	FRI
PB-1902	Pantry door	1 ea	bone white	C	wood	1	448A	pos.	F	FRI
PB-1903	Pantry door sidejam	2 ea	bone white	C	wood	1	448A	pos.	F	FRI

BAKER EN\ NMENTAL

LEAD INSPECTION

SAMPLING DATA SHEET

448A

Client Name: Department of the Navy	Project Name: Stop 7[1/2] Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-1904	Pantry door headjam		bone white	C	wood	1	448A	pos.		
PB-1924	Kitchen Den baseboard	22 lf	brown	D	wood	1	448A	pos.	I	
PB-1938	Living Room Entrance door chair rail	96 lf	bone white	B	wood	1	448A	pos.	I	
PB-1939	Entrance door baseboard	65 lf	brown	A	concrete	1	448A	pos.	F	Imp
PB-1945	Hallway baseboard		brown	D	concrete	1	448A	pos.		
PB-1947	Living room baseboard		brown	C	concrete	1	448A	pos.		
PB-1949	Calibration test					1	448A	pos.		
PB-1950	Calibration test					1	448A	pos.		
PB-1951	Calibration test					1	448A	pos.		
PB-1952	Hallway chair rail	18 lf	bone white	D	wood	1	448A	pos.	I	
PB-1962	Room # 1 chair rail	48 lf	pink	D	wood	1	448A	pos.	I	
PB-1970	Room # 1 closet wall	25 ft	white	D	concrete	1	448A	pos.	I	
PB-1974	Room # 1 door	1 ea	bone white	D	wood	1	448A	pos.	F	Imp
PB-1977	Bathroom door	1 ea	bone white		wood	1	448A	pos.	P	FAI
PB-1979	Bathroom door headjam	1 ea	bone white		wood	1	448A	pos.	P	FAI
PB-1992	Room # 2 door	1 ea	bone white		wood	1	448A	pos.	F	FAI
PB-1993	Room # 2 door sidejam	2 ea	bone white		wood	1	448A	pos.	F	FAI
PB-1994	Room # 2 door headjam	1 ea	bone white		wood	1	448A	pos.	F	FAI
PB-1999	Room # 2 window ledge	6 lf	white	D	wood	1	448A	pos.	I	
PB-2003	Room # 2 chair rail	48 lf	bone white	D	wood	1	448A	pos.	I	
PB-2004	Room # 2 closet door	1 ea	bone white	A	wood	1	448A	pos.	F	FAI
PB-2006	Room # 2 closet door headjam	1 ea	bone white	A	wood	1	448A	pos.	F	FAI

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1857	calibration						P	1.6
1858							P	1.7
1859							P	1.5
1860	Porch entrance sidewalk	gray	D	Concrete	1	448A	N	
1861	entrance step	gray	D	—	—	—	N	
1862	" " siding	white	—	—	—	—	n	
1863	Porch door Laundry ext	—	—	wood	—	—	n	
1864	int	—	—	—	—	—	n	
1865	sidejam	—	—	—	—	—	n	
1866	head jam	—	—	—	—	—	n	
1867	Porch Laundry wall	—	A	Concrete	—	—	P	3.8
1868	—	—	B	—	—	—	P	4.5
1869	—	—	C	—	—	—	P	3.6
1870	—	—	D	—	—	—	n	

448A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1871	window frame ↗ #2	white	A	wood	1	448A	n	
1872	Laundry porch floor	Brown	floor	concrete	1	~	n	
1873	~	gray	~	~	1	~	n	
1874	porch storage door ext	white	B	~~white~~ wood	~	~	p	1.8
1875	" " int	~	~	~	~	~	p	2.6
1876	" side jam	~	~	~	~	~	n	
1877	Head jam	~	~	~	~	~	n	
1878	Porch Laundry wall	~	A	concrete	~	~	p	3.6
1879	~	~	B	~	~	~	n	
1880	~	~	C	~	~	~	p	3.7
1881	~	~	D	~	~	~	n	
1882	~	off white	D	~	~	~	n	
1883	shelve base	white	D	wood	~	~	n	
1884	shelve	~	C	~	~	~	n	
1885	" plastic " pipe	~	C	plastic	~	~	n	
1886	porch Laundry floor	gray	floor	concrete	~	~	n	
~~87~~								

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1887	Kitchen door	Brown	A	wood	1	448A	n	
1888	" " Sidejam (ext)	white	—	—	—	—	p	2.0
1889	" " (int)	Bone White	—	—	—	—	p	4.7
1890	" " Headjam (ext)	white	—	—	—	—	p	2.6
1891	" " (int)	Bone white	—	—	—	—	p	2.9
1892	Kitchen wall	Bone white	A	Concrete	—	—	n	paint chip
1893	—	Dark peach	A~~B~~	—	—	—	n	paint chip
1894	—	Bone white	B~~E~~	—	—	—	n	paint chip
1895	—	—	C~~E~~	—	—	—	n	paint chip
1896	—	—	D	—	—	—	n	paint chip
1897	Kitchen wall Chair rail	Brown	B	Concrete	—	—	p	11
1898	—	—	B	Ceramic	—	—	p	15
1899	Kitchenwall CT 4x4	yellow	D	—	—	—	n	
1900	"Baseboard"	Brown	B	wood	—	—	p	2.1

* Inaccesible 4x2 Ceramic Tile behind baseboard

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

448A

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1901	raise floor Kitchen	white	A	wood	1	448A	n	
1902	pantry door	Bone white	C	~	—	—	p	2.3
1903	~ side jam	~	C	~	—	—	Pos	2.9
1904	~ Headjam	~	C	—	—	—	Pos	1.8
05	Pantry wall	White	A	concrete	—	—	n	
1906	~	~	B	wood	—	—	n	
1907	—	—	C	—	—	—	n	
1908	—	—	D	—	—	—	n	
1909	Shelve #3	—	—	—	—	—	n	
1910	shelve base #3	—	—	—	—	—	n	
1911	pantry wall	Bone White	A	Concrete	—	—	n	
1912	Shelve door	white	A	wood	—	—	n	
1913	Pantry floor	white	floor	concrete	—	—	n	

confirmation paint chip

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1914	Kitchen den wall	Bone white	A	concrete	1	448A	n
1915	~	—	B	—	—	—	n
1916	~	—	C	—	—	—	n
1917	~	—	D	—	—	—	n
1918	Kitchen window case	white	D	metal	—	—	n
1919	" " window rail	~	—	—	—	—	n
1920	Kitchen window sill	white	D	concrete	—	—	n
1921	Kitchen den Breaker Box	Bone white	C	metal	—	—	n
1922	Kitchen den chair rail	Brown	D	concrete	—	—	n
1923	" " CT 4x4	Yellow	D	ceramic	—	—	n
1924	" " baseboard	Brown	D	wood	—	—	p
1925	Kitchen den Housing	white	B C	wood	—	—	n
1926	" " window case	—	D	metal	—	—	n
1927	" " " rail	—	—	—	—	—	n
1928	" " window sill	~	~	concrete	~	~	n

paint chip

2.5

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1929	Kitchen den chair rail center	Brown	A	Concrete	1	448A	N	
1930	Living room wall	Bone white	A	—	—	—	n	
1931	—	—	B	—	—	—	n	paint chip confirmation
1932	—	—	C	—	—	—	n	
33	—	—	D	—	—	—	n	
1934	Entrance door case	white	A	metal	—	—	n	
1935	" " side jam	—	—	—	—	—	n	
1936	" " Head jam	—	—	—	—	—	n	
1937	" " window #1	white	A	metal	—	—	n	
1938	" " chair rail	Bone white	B	wood	—	—	p	1.5
1939	" " baseboard	Brown	A	concrete	—	—	p	2.2
1940	Living room floor CT 8x8	green	floor	ceramic	—	—	n	
1941	Hallway wall	Bone white	A	concrete	—	—	n	
1942	—	—	B	—	—	—	n	
1943	—	—	C	—	—	—	n	
1944	—	—	D	—	—	—	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1945	Hallway Baseboard	Brown	D	concrete	1	448A	P	3.4
1946	4 FT 8" X 8"	green	Floor	ceramic	—	—	N	
1947	Liv. ~~Hallway~~ room Baseboard	Brown	C	concrete	—	—	P	2.8
1948	Hallway chairrail	Bone white	A	wood	—	—	—	Battery run OFF
1949	to validation	—			—	—	P	1.7
1950	—	—			—	—	P	1.4
1951	—	—			—	—	P	1.7
1952	Hallway Chairrail	Bone white	D	wood	—	—	P	1.9
1953	Room #1 wall	pink	A	concrete	—	—	n	
1954	" "	gray	A	—	—	—	n	
1955	—	pink	B		—	—	n	
1956	—	—	C		—	—	n	
1957	—	—	D		—	—	n	
1958	" "	Bone white	A	—	—	—	n	
1959	—	—	B	—	—	—	n	
1960	—	—	C	—	—	—	n	
1961	—	—	D	—	—	—	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1962	Room # 1 Chair rail	pink	D	wood	1	448A	p	3.8
1963	" " Baseboard	Brown	C	~	~	~	n	
1964	~	~	A	~	~	~	n	
1965	Room # 1 FT 8x8	peach	floor	ceramic	~	~	n	
1966	Room closet side jam	white		wood	~	~	n	
1967	Head jam	~		~	~	~	n	
1968	Closet wall	white	~~A~~ B	concrete	~	~	n	
1969	~	~	~~B~~ C	~	~	~	n	
1970	~	~	~~C~~ D	~	~	~	p	2.1
1971	~	~	~~D~~ A	~	~	~	n	
1972	" " shelve # 3	white	B	wood	~	~	n	
1973	shelve frame # 4	~	B	~	~	~	n	
1974	Room # 1 door	Baby white	D	~	~	~	p	3.2
1975	" " side jam	~	D	~	~	~	N	
1976	Head jam	~	D	~	~	~	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1977	Bathroom door	Bone white		wood	1	448BA	p	2.1
1978	side jam	—		—	—	—	n	
1979	Head jam	—		—	—	—	p	2.0
1980	side jam conf.	—		—	—	—	n	
1981	Bathroom wall	Bone white	A	concrete	—	—	n	
1982	—	—	B	—	—	—	n	
1983	—	—	C	—	—	—	n	
1984	—	—	D	—	—	—	n	
1985	—	—	A	—	—	—	n	
1986	Bathroom CT 6X6	white	A	ceramic	—	—	n	
1987	" Tub "	—	A	metal	—	—	n	
1988	" Sink	—	C	metal	—	—	n	
1989	" toilet tank	—	C	ceramic	—	—	n	
1990	" " Base	—	C	—	—	—	n	
1991	" ET 1X1 "	—		floor ceramic	—	—	n	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1992	Room #2 door	Bone white		wood	1	448A	p	~~3.0~~ 2.8
1993	Side jam	—		—	—	—	p	3.0
1994	Head jam	—		—	—	—	p	2.5
1995	Room #2 wall	Bone White	A	concrete	—	—	n	paint chip
1996	—	—	B	—	—	—	n	
1997	—	—	C	—	—	—	n	
1998	—	—	D	—	—	—	n	
1999	" window ledge "	White	D	—	—	—	p	2.2
2000	" Baseboard "	Brown	A	wood	—	—	n	
2001	—	—	D	—	—	—	n	
2002	" CT 8x8 "	peach	floor	ceramic	—	—	n	
2003	" Chair rail "	Bone White	D	wood	—	—	p	2.1
2004	Room #2 closet door	Bone White	A	—	—	—	p	3.3
2005	" side jam "	—	—	—	—	—	n	
2006	" Head jam "	—	—	—			p	3.3
2007	side jam (confir)	—	—	—	—	—	p	1.6

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
2008	Room #3 closet wall	white	A	concrete	1	448B	n	paintchip confirmation
2009	—	—	B	—	—	—	n	
2010	—	—	C	—	—	—	n	
2011	—	—	D	—	—	—	n	
2012	1' 1" shelve	—	A	wood	—	—	n	
2013	shelve base	—	D	—	—	—	n	
2014	Room #1 door	—	—	wood	—	—	p	3.4 *found in room #2
2015	Den side door jam	Bone white	A	—	—	—	p	2.9
2016	Head jam	—	A	—	—	—	p	4.4
2017	Den wall	e	A	concrete	—	—	n	paint chip confirmation
2018	—		B	—	—	—	n	
2019	—		C	—	—	—	n	
2020	—		D	—	—	—	n	
2021	1' Den Ft 8x8	terracotta	floor	ceramic	—	—	n	

448A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

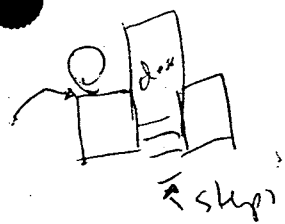
SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
2022	Den door #2	Brown	ED	wood	1	448A	N	
2023	— side jam	Bone white	—	—	—	—	n	
2024	— Head jam	—	—	—	—	—	n	
2025	Den window upper sill	white	ED	concrete	—	—	n	
2026	Den door-frame sidejam	Bone white	A	wood	—	—	P	3.0
2027	Head jam	—	A	—	—	—	P	4.8
2028	Den window sill	white	A	metal	—	—	n	
2029	Living Room Pipe chase	bone white	A	wood	—	—	N	
2030	Room No 1 Pipe chase	"	D	wood	—	—	N	
2031	Room No 2 closet electric box	white	D	metal	—	—	N	
2032	Kitchen Den Pipe chase	bone white	B	wood	—	—	N	
2033	Kitchen Pipe	bone white	B	wood	—	—	N	
2034	ext wall	white	A	conc	—	—	Pos	5.2
2035	Ext trim	blue	A	conc	—	—	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448A

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
2036	Ext wall	white	B	conc	1	448A	POS	5.7
2037	Ext trim	blue	B	conc	1	448A	N	Null uncoated extra
2038	Ext trim	blue	B	"	"	"	Neg	
2039	Ext wall	white	C	conc	"	"	POS	6.5
2040	Ext trim	blue	C	"	"	"	N	
2041	Ext wall	white	D	conc	1	"	POS	8.4
2042	Ext trim	blue	D	"	"	"	N	Null
2043	Ext ~~concrete~~ trim steps	blue ~~gray~~	D	conc	"	"	N	
2044	~~sidewalk~~ Ext concrete sidewalk step	gray	A	conc	"	"	N	
2045	sidewalk	gray	A	conc	"	"	N	
2046	Entrance step	gray	A	conc	"	"	N	
2047	Entrance raise	gray	A	"	"	"	N	
2048	Entrance side base raise	white	A	conc	"	"	POS	3.3
2049	Entrance side step	white	A	"	"	"	POS	3.0



448 A

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
2050	Entrance Bracket bell	blue	A	conc	1	448A	N	
2051	Electric box	white	A	metal	1	"	N	
2052	water tank	white	B	metal	1	"	N	
2053	Entrance window	white	A	metal	"	"	N	
2054	Cd. vel						Pos	1.8
2055	Cd vel						Pos	1.4
2056	Cd vel						Pos	1.5

SAMPLING DATA

Form 5.3
Field Sampling Form for ~~Deteriorated~~ Paint confirmations
(One form for each housing unit, common area, or exterior)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address Stop 7 1/2 Site Apt. no. 448 A Bldg

Dwelling selection protocol ✓ All dwellings _____ Targeted _____ Worst case _____ Random

~~Target~~ dwelling criteria (check all that apply)

_____ Code violations
✓ Judged to be in poor condition
_____ Presence of two or more children between ages of 6 months and 6 years
_____ Serves as day-care facility
_____ Recently prepared for reoccupancy
_____ Random sampling

(1 sample area measurement)

	Sample number	Room	Building component	Lead (mg/cm² or µg/g)
51706	P.448A.01	Kitchen	Wall D (2"x2")	0.480
51707	P.448A.02	Living Room	Wall B (2"x2")	0.186
51708	P.448A.03	Den	Wall B (2"x2")	0.396
HUD interim standard				5,000 µg/g or 1 mg/cm²

Sample *all* layers of paint, not just deteriorated paint layers.

Total number of samples on this page 3

Page 1 of 1

Date of sample collection 2 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by [signature] 10:00 am (signature)

Date results reported ___/___/___ Analyzed by _____

Approved by _____

Form 5.4
Field Sampling Form for Dust
(Single-Surface Sampling)

Name of risk assessor Miguel A Olivera

Name of property owner US Navy

Property address Stop 1 1/2 Facility Apt. no. 448 A Bldg

Dwelling selection protocol ✓ All dwellings _____ Targeted _____ Worst case _____ Random

~~Target~~ dwelling criteria (check all that apply)

- _____ Code violations
- ✓ Judged to be in poor condition
- _____ Presence of two or more children between ages of 6 months and 6 years
- _____ Serves as day-care facility
- _____ Recently prepared for reoccupancy

Sample number	Room (record name of room used by the owner or resident)	Surface type (circle the type)	Is surface smooth and cleanable?	Dimensions[1] of sample area (inches x inches)	Area (ft²)	Result of lab analysis (µg/ft²)
690 D.448A.1	Playroom Den	Floor	y	12 x 12		< 8.00
691 D.448A.2	Playroom Den	Interior window sill or window trough	y	4 x 4		334.0
692 D.448A.3	Kitchen	Floor	y	12 x 12		< 8.00
693 D.448A.4	Kitchen	Interior window sill or window trough	y	4 x 4		< 64.8
694 D.448A.5	Bedroom 1 Room 2	Floor	y	12 x 12		54.8
695 D.448A.6	Bedroom 1 Room 2	Interior window sill or window trough	y	4 x 4		< 64.8
D.448A.7 697	Porch Entrance	~~Bedroom 2~~ Front A	Floor	y	12 x 12		64.2
D.448A.8 698	Porch Entrance	~~Bedroom 2~~ Front A	Interior window sill or window trough	y	2 x 8 / 4 x 4		122.0
448.9	Living Room		Floor	y	12 x 12		< 8.00
448.10	Living Room		Interior w. sill	y	2 x 8		799.0
448.11		Hallway	Floor	y	12x12		< 8.00
448.12		Control	Floor	y	12x12		

[1] Measure to the nearest 1/8 inch.

HUD standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² (window troughs)

Total number of samples on this page 12

Page 1 of 1

Date of sample collection 2 / Apr / 00 Date shipped to lab 4 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 Am (signature)

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. R.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy - Stop 7½ Site 448 A
Site Location:
Samplers Name: Miguel Olivieras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb Wipes							Remarks
81 793	E[redacted]	[redacted]	4/9/00			✓		N/A	1	✓							
81 794	ED.448A.20	Ext. Front Entrance Side A				✓			1	✓							114.0 ug/sq. ft.
81 795	ED.448A.21	Int. Side Entrance Side D				✓			1	✓							63.3 ug/sq. ft
81 796	[redacted]	[redacted]				✓			1	✓							
81 797	E[redacted]	[redacted]				✓			1	✓							
81 798	E[redacted]	[redacted]				✓			1	✓							

Turnaround Time: Normal: [ ] Rush: [✓]

Comments:

Relinquished By:	Miguel A Olivieras	Date/Time	10 Apr 00 1200	Delivered Directly to Lab: [ ]	Shipped: [ ]
Received By:	Kenny Acosta	Date/Time	4-10-00 14:00	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received By:		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Olivcas

Name of property owner US Navy

Property address 448A Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
S. 448. 01	Building perimeter		225.0
	Building perimeter		
	Play area 1 (describe)		
	Play area 2 (describe)		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:30 am (signature)

XRF DATA

448 A

Serial #XL309-U12673701LY Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	1853	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	4/1/100	15:24:20
2	**1854**	**1.92 ± 0.63**	**POS**	**-0.1 ± 1.4**	**1.9 ± 0.3**	**2.6**	**6.1**	**4/1/100**	**15:24:41**
3	**1855**	**2.04 ± 0.70**	**POS**	**0.6 ± 1.4**	**2.0 ± 0.3**	**2.9**	**6.1**	**4/1/100**	**15:25:51**
4	**1856**	**1.74 ± 0.57**	**POS**	**2.5 ± 1.2**	**1.7 ± 0.3**	**2.5**	**6.1**	**4/1/100**	**15:26:17**
5	**1857**	**1.56 ± 0.29**	**POS**	**1.6 ± 1.3**	**1.6 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**15:27:02**
6	**1858**	**1.66 ± 0.31**	**POS**	**0.6 ± 1.5**	**1.7 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**15:27:23**
7	**1859**	**1.55 ± 0.29**	**POS**	**2.4 ± 1.2**	**1.5 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**15:27:43**
8	1860	0.01 ± 0.16	NEG	-0.9 ± 1.2	0.0 ± 0.1	1.5	6.1	4/1/100	15:33:18
9	1861	0.00 ± 0.10	NEG	-0.4 ± 1.3	0.0 ± 0.1	1.0	6.1	4/1/100	15:33:38
10	1862	0.08 ± 0.10	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	23.0	4/1/100	15:34:01
11	1863	0.00 ± 0.10	NEG	-0.6 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	15:35:09
12	1864	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	15:35:29
13	1865	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	15:36:15
14	1866	0.00 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	15:36:34
15	**1867**	**0.53 ± 0.42**	**POS**	**3.8 ± 1.6**	**3.8 ± 0.8**	**10.0**	**6.1**	**4/1/100**	**15:38:03**
16	**1868**	**4.47 ± 1.63**	**POS**	**7.7 ± 3.7**	**4.5 ± 0.8**	**6.8**	**1.2**	**4/1/100**	**15:39:27**
17	**1869**	**0.43 ± 0.35**	**POS**	**3.6 ± 1.5**	**3.6 ± 0.7**	**10.0**	**6.1**	**4/1/100**	**15:39:44**
18	1870	0.03 ± 0.10	NEG	0.7 ± 0.7	0.0 ± 0.1	6.0	20.9	4/1/100	15:40:17
19	1871	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	15:41:55
20	1872	0.03 ± 0.19	NEG	-0.5 ± 1.3	0.0 ± 0.1	3.4	6.1	4/1/100	15:43:23
21	1873	0.03 ± 0.22	NEG	-1.6 ± 1.2	0.0 ± 0.1	2.3	6.1	4/1/100	15:43:48
22	**1874**	**0.31 ± 0.21**	**POS**	**1.8 ± 0.6**	**1.8 ± 0.3**	**10.0**	**25.8**	**4/1/100**	**15:44:14**
23	**1875**	**0.58 ± 0.48**	**POS**	**2.6 ± 0.8**	**2.6 ± 0.4**	**6.7**	**13.4**	**4/1/100**	**15:45:24**
24	1876	0.00 ± 0.10	NEG	-0.4 ± 0.9	0.0 ± 0.1	1.0	6.2	4/1/100	15:46:12
25	1877	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	6.2	4/1/100	15:46:36
26	**1878**	**3.39 ± 2.71**	**POS**	**3.6 ± 1.5**	**3.6 ± 0.7**	**6.5**	**6.1**	**4/1/100**	**15:47:03**
27	1879	0.16 ± 0.22	NEG	0.2 ± 0.8	0.2 ± 0.1	3.9	13.4	4/1/100	15:47:23

448A

Paint Page 2

Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	**1880**	**4.60 ± 1.50**	**POS**	**3.7 ± 3.0**	**3.7 ± 1.5**	**10.0**	**1.2**	**4/1/100**	**15:48:04**
29	1881	0.15 ± 0.11	NEG	0.9 ± 0.7	0.1 ± 0.1	2.9	20.7	4/1/100	15:48:17
30	1882	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.0	8.5	4/1/100	15:49:39
31	1883	0.09 ± 0.21	NEG	0.2 ± 0.7	0.1 ± 0.1	5.9	11.0	4/1/100	15:50:18
32	1884	0.14 ± 0.47	NEG	0.0 ± 1.0	0.1 ± 0.2	3.5	6.0	4/1/100	15:50:50
33	1885	0.17 ± 0.23	NEG	0.5 ± 0.7	0.2 ± 0.1	4.5	15.9	4/1/100	15:51:34
34	1886	0.01 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	13.5	4/1/100	15:52:35
35	1887	0.00 ± 0.10	NEG	-0.5 ± 0.9	0.0 ± 0.1	1.0	6.0	4/1/100	15:53:38
36	**1888**	**0.17 ± 0.22**	**POS**	**2.0 ± 0.6**	**2.0 ± 0.3**	**6.0**	**21.0**	**4/1/100**	**15:54:06**
37	**1889**	**0.58 ± 0.50**	**POS**	**4.7 ± 1.7**	**4.7 ± 0.9**	**10.0**	**3.7**	**4/1/100**	**15:54:56**
38	**1890**	**0.25 ± 0.34**	**POS**	**2.6 ± 0.9**	**2.6 ± 0.4**	**6.1**	**13.5**	**4/1/100**	**15:55:14**
39	**1891**	**0.64 ± 0.59**	**POS**	**2.9 ± 1.1**	**2.9 ± 0.5**	**5.8**	**8.5**	**4/1/100**	**15:55:49**
40	1892	0.20 ± 0.22	NEG	0.4 ± 0.7	0.2 ± 0.1	5.7	20.9	4/1/100	15:56:18
41	1893	0.32 ± 0.26	NEG	0.3 ± 0.9	0.3 ± 0.1	4.2	13.3	4/1/100	15:58:21
42	1894	0.35 ± 0.30	NEG	0.8 ± 0.7	0.4 ± 0.1	6.6	20.9	4/1/100	15:59:22
43	1895	0.24 ± 0.35	NEG	-0.3 ± 0.9	0.2 ± 0.2	6.0	13.5	4/1/100	16:00:14
44	1896	0.00 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.0	13.5	4/1/100	16:00:50
45	**1897**	**>>5.0 ± 1.00**	**POS**	**10.8 ± 5.3**	**10.8 ± 2.7**	**1.9**	**1.2**	**4/1/100**	**16:02:47**
46	**1898**	**>>5.0 ± 1.00**	**POS**	**14.4 ± 4.9**	**14.4 ± 2.4**	**2.1**	**1.2**	**4/1/100**	**16:03:17**
47	1899	0.12 ± 0.22	NEG	0.5 ± 0.7	0.1 ± 0.1	4.2	20.4	4/1/100	16:03:54
48	**1900**	**0.36 ± 0.26**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**10.0**	**20.6**	**4/1/100**	**16:04:54**
49	1901	0.03 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	5.2	6.1	4/1/100	16:06:46
50	**1902**	**0.65 ± 0.45**	**POS**	**2.3 ± 0.7**	**2.3 ± 0.4**	**7.5**	**18.3**	**4/1/100**	**16:07:16**
51	**1903**	**0.82 ± 0.93**	**POS**	**3.0 ± 1.1**	**2.9 ± 0.5**	**6.8**	**6.1**	**4/1/100**	**16:08:05**
52	**1904**	**0.40 ± 0.18**	**POS**	**1.8 ± 0.5**	**1.8 ± 0.3**	**4.9**	**30.6**	**4/1/100**	**16:08:29**
53	1905	0.27 ± 0.33	NEG	-0.6 ± 1.1	0.3 ± 0.2	4.0	8.5	4/1/100	16:09:56
54	1906	0.19 ± 0.20	NEG	0.3 ± 0.9	0.2 ± 0.1	3.1	10.9	4/1/100	16:10:21
55	1907	0.10 ± 0.10	NEG	0.7 ± 0.6	0.1 ± 0.1	1.9	20.7	4/1/100	16:10:48

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	1908	0.13 ± 0.17	NEG	-0.4 ± 1.2	0.1 ± 0.1	1.9	6.1	4/1/100	16:11:41
57	1909	0.34 ± 0.16	NEG	1.1 ± 0.5	0.3 ± 0.1	3.3	20.5	4/1/100	16:12:02
58	1910	0.54 ± 0.24	NEG	0.9 ± 0.5	0.5 ± 0.1	4.1	20.4	4/1/100	16:13:09
59	1911	0.21 ± 0.17	NEG	0.2 ± 0.9	0.2 ± 0.1	2.5	10.8	4/1/100	16:14:12
60	1912	0.03 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	1.0	6.0	4/1/100	16:15:43
61	1913	0.04 ± 0.15	NEG	0.8 ± 0.7	0.0 ± 0.1	4.2	20.9	4/1/100	16:16:05
62	1914	0.26 ± 0.35	NEG	0.0 ± 0.9	0.3 ± 0.2	5.3	11.0	4/1/100	16:17:45
63	1915	0.31 ± 0.15	NEG	1.1 ± 0.5	0.3 ± 0.1	5.8	45.3	4/1/100	16:18:15
64	1916	0.02 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	3.1	13.5	4/1/100	16:20:04
65	1917	0.30 ± 0.25	NEG	0.4 ± 0.7	0.3 ± 0.1	5.6	20.8	4/1/100	16:20:43
66	1918	0.01 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.9	6.2	4/1/100	16:21:51
67	1919	0.02 ± 0.10	NEG	1.0 ± 0.5	0.0 ± 0.1	1.8	23.3	4/1/100	16:22:22
68	1920	0.01 ± 0.14	NEG	0.2 ± 0.9	0.0 ± 0.1	1.7	11.1	4/1/100	16:23:29
69	1921	0.15 ± 0.11	NEG	0.9 ± 0.6	0.1 ± 0.1	3.6	28.2	4/1/100	16:24:33
70	1922	0.00 ± 0.10	NEG	-0.5 ± 1.2	0.0 ± 0.1	1.0	6.1	4/1/100	16:26:39
71	1923	0.13 ± 0.12	NEG	0.6 ± 0.7	0.1 ± 0.1	2.8	20.4	4/1/100	16:27:05
72	**1924**	**0.45 ± 0.32**	**POS**	**2.5 ± 0.8**	**2.5 ± 0.4**	**10.0**	**15.8**	**4/1/100**	**16:28:03**
73	1925	0.01 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	3.4	6.1	4/1/100	16:29:45
74	1926	0.00 ± 0.10	NEG	0.8 ± 0.6	0.0 ± 0.1	1.2	21.0	4/1/100	16:30:13
75	1927	0.00 ± 0.10	NEG	1.0 ± 0.6	0.0 ± 0.1	1.0	20.9	4/1/100	16:31:04
76	1928	0.00 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	11.1	4/1/100	16:31:57
77	1929	0.03 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	1.3	8.6	4/1/100	16:32:56
78	1930	0.05 ± 0.10	NEG	-0.1 ± 0.7	0.1 ± 0.1	6.8	18.4	4/1/100	16:34:41
79	1931	0.16 ± 0.11	NEG	0.5 ± 0.4	0.5 ± 0.2	10.0	50.4	4/1/100	16:35:34
80	1932	0.11 ± 0.20	NEG	-0.4 ± 1.0	0.1 ± 0.1	6.7	11.1	4/1/100	16:37:32
81	1933	0.08 ± 0.20	NEG	0.2 ± 0.9	0.1 ± 0.1	5.4	11.1	4/1/100	16:38:02
82	1934	0.00 ± 0.10	NEG	0.7 ± 0.6	0.0 ± 0.1	1.0	18.4	4/1/100	16:38:45
83	1935	0.00 ± 0.10	NEG	1.0 ± 0.5	0.0 ± 0.1	1.0	28.2	4/1/100	16:40:06

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	1936	0.01 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	13.5	4/1/100	16:41:19
85	1937	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	16:42:21
86	**1938**	**0.32 ± 0.20**	**POS**	**1.5 ± 0.4**	**1.5 ± 0.2**	**10.0**	**50.3**	**4/1/100**	**16:43:48**
87	**1939**	**1.24 ± 0.83**	**POS**	**2.2 ± 0.8**	**2.2 ± 0.4**	**10.0**	**20.9**	**4/1/100**	**16:46:30**
88	1940	0.08 ± 0.14	NEG	-0.6 ± 1.0	0.1 ± 0.1	7.8	8.6	4/1/100	16:47:43
89	1941	0.22 ± 0.16	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	28.3	4/1/100	16:48:22
90	1942	0.28 ± 0.20	NEG	-0.1 ± 0.6	-0.1 ± 0.3	10.0	20.9	4/1/100	16:49:32
91	1943	0.14 ± 0.24	NEG	0.1 ± 0.8	0.1 ± 0.1	6.8	13.5	4/1/100	16:50:22
92	1944	0.27 ± 0.18	NEG	0.1 ± 0.5	0.1 ± 0.3	10.0	33.2	4/1/100	16:50:55
93	**1945**	**2.67 ± 3.43**	**POS**	**3.4 ± 1.3**	**3.4 ± 0.7**	**10.0**	**8.6**	**4/1/100**	**16:52:30**
94	1946	0.00 ± 0.10	NEG	-0.6 ± 1.4	0.0 ± 0.1	1.0	6.2	4/1/100	16:53:01
95	**1947**	**1.17 ± 0.81**	**POS**	**2.8 ± 0.9**	**2.8 ± 0.4**	**10.0**	**13.5**	**4/1/100**	**16:53:34**
96	1948	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.8	4/1/100	17:01:36
97	**1949**	**1.69 ± 0.32**	**POS**	**1.1 ± 1.5**	**1.7 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**17:03:34**
98	**1950**	**1.41 ± 0.12**	**POS**	**0.4 ± 1.9**	**1.4 ± 0.1**	**1.0**	**3.6**	**4/1/100**	**17:03:55**
99	**1951**	**1.75 ± 0.33**	**POS**	**1.8 ± 1.4**	**1.7 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**17:04:11**
100	**1952**	**0.34 ± 0.22**	**POS**	**1.9 ± 0.5**	**1.9 ± 0.3**	**10.0**	**35.7**	**4/1/100**	**17:04:46**
101	1953	0.19 ± 0.14	NEG	0.8 ± 0.4	0.8 ± 0.2	9.9	50.4	4/1/100	17:06:34
102	1954	0.28 ± 0.27	NEG	-0.3 ± 1.2	0.3 ± 0.1	2.5	6.0	4/1/100	17:08:33
103	1955	0.07 ± 0.22	NEG	0.0 ± 1.0	0.1 ± 0.1	4.9	8.6	4/1/100	17:09:21
104	1956	0.17 ± 0.11	NEG	0.5 ± 0.4	0.5 ± 0.2	10.0	50.4	4/1/100	17:09:49
105	1957	0.14 ± 0.10	NEG	0.7 ± 0.4	0.7 ± 0.2	10.0	50.4	4/1/100	17:11:46
106	1958	0.00 ± 0.10	NEG	-1.0 ± 1.3	0.0 ± 0.1	1.0	6.1	4/1/100	17:13:49
107	1959	0.01 ± 0.10	NEG	0.9 ± 0.6	0.0 ± 0.1	2.0	20.9	4/1/100	17:14:42
108	1960	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.0	6.1	4/1/100	17:16:06
109	1961	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	17:16:40
110	**1962**	**0.20 ± 0.19**	**POS**	**3.8 ± 1.2**	**3.8 ± 0.6**	**10.0**	**6.2**	**4/1/100**	**17:17:07**
111	1963	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	6.1	4/1/100	17:17:48

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
112	1964	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.1	4/1/100	17:18:23
113	1965	0.01 ± 0.10	NEG	0.4 ± 0.8	0.0 ± 0.1	1.0	13.5	4/1/100	17:18:48
114	1966	0.16 ± 0.13	NEG	0.1 ± 0.6	0.1 ± 0.3	10.0	16.1	4/1/100	17:19:41
115	1967	0.25 ± 0.42	NEG	0.3 ± 0.8	0.2 ± 0.2	6.7	8.6	4/1/100	17:20:21
116	1968	0.25 ± 0.22	NEG	0.4 ± 0.8	0.2 ± 0.1	4.2	13.5	4/1/100	17:20:47
117	1969	0.19 ± 0.51	NEG	-0.5 ± 1.3	0.2 ± 0.3	5.0	6.2	4/1/100	17:21:28
118	**1970**	**0.29 ± 0.20**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**4.8**	**20.9**	**4/1/100**	**17:21:50**
119	1971	0.19 ± 0.26	NEG	-0.6 ± 1.3	0.2 ± 0.1	2.9	6.1	4/1/100	17:22:56
120	1972	0.66 ± 0.25	NEG	0.8 ± 0.4	0.8 ± 0.2	8.2	50.3	4/1/100	17:23:21
121	1973	0.13 ± 0.18	NEG	0.2 ± 0.7	0.1 ± 0.1	7.8	11.1	4/1/100	17:25:18
122	**1974**	**0.76 ± 0.72**	**POS**	**3.2 ± 1.0**	**3.2 ± 0.5**	**8.8**	**11.0**	**4/1/100**	**17:26:10**
123	1975	0.04 ± 0.17	NEG	0.5 ± 0.6	0.0 ± 0.1	3.2	11.1	4/1/100	17:26:41
124	1976	0.05 ± 0.14	NEG	-0.7 ± 1.1	0.0 ± 0.1	1.8	6.1	4/1/100	17:27:14
125	**1977**	**0.46 ± 0.31**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.3**	**6.3**	**20.8**	**4/1/100**	**17:28:03**
126	1978	0.24 ± 0.20	NEG	0.7 ± 0.6	0.2 ± 0.1	3.9	15.8	4/1/100	17:28:55
127	**1979**	**1.27 ± 0.86**	**POS**	**2.0 ± 0.7**	**2.0 ± 0.4**	**10.0**	**20.7**	**4/1/100**	**17:29:41**
128	1980	0.15 ± 0.49	NEG	-0.6 ± 1.0	0.2 ± 0.2	4.2	6.1	4/1/100	17:31:03
129	1981	0.00 ± 0.11	NEG	-0.7 ± 1.1	0.0 ± 0.1	1.0	6.1	4/1/100	17:31:27
130	1982	0.00 ± 0.10	NEG	0.8 ± 0.6	0.0 ± 0.1	1.0	20.9	4/1/100	17:31:45
131	1983	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	8.6	4/1/100	17:32:44
132	1984	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	18.4	4/1/100	17:33:07
133	1985	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	8.6	4/1/100	17:34:03
134	1986	0.44 ± 0.13	NEG	0.6 ± 0.7	0.4 ± 0.1	2.1	21.7	4/1/100	17:34:37
135	1987	0.00 ± 0.10	NEG	0.5 ± 0.8	0.0 ± 0.1	1.0	15.9	4/1/100	17:35:37
136	1988	0.04 ± 0.29	NEG	-0.1 ± 1.0	0.0 ± 0.1	2.9	8.1	4/1/100	17:36:21
137	1989	0.09 ± 0.25	NEG	0.2 ± 0.9	0.1 ± 0.1	6.1	10.5	4/1/100	17:36:46
138	1990	0.01 ± 0.22	NEG	-0.3 ± 1.1	0.0 ± 0.1	1.0	5.9	4/1/100	17:37:18
139	1991	0.05 ± 0.17	NEG	0.5 ± 0.7	0.1 ± 0.1	5.6	17.6	4/1/100	17:38:00

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
140	**1992**	**0.37 ± 0.28**	**POS**	**2.8 ± 1.0**	**2.8 ± 0.5**	**10.0**	**13.5**	**4/1/100**	**17:40:09**
141	**1993**	**0.34 ± 0.48**	**POS**	**3.0 ± 1.1**	**3.0 ± 0.6**	**6.0**	**8.6**	**4/1/100**	**17:41:00**
142	**1994**	**0.61 ± 0.44**	**POS**	**2.5 ± 0.8**	**2.5 ± 0.4**	**7.4**	**16.0**	**4/1/100**	**17:41:37**
143	1995	0.13 ± 0.18	NEG	1.1 ± 0.5	0.1 ± 0.1	7.3	43.0	4/1/100	17:42:49
144	1996	0.22 ± 0.15	NEG	0.1 ± 0.5	0.1 ± 0.2	10.0	40.5	4/1/100	17:44:34
145	1997	0.03 ± 0.19	NEG	0.1 ± 0.9	0.0 ± 0.1	2.6	11.0	4/1/100	17:46:10
146	1998	0.13 ± 0.23	NEG	0.0 ± 1.1	0.1 ± 0.1	6.8	8.6	4/1/100	17:46:42
147	**1999**	**0.46 ± 0.41**	**POS**	**2.2 ± 0.7**	**2.2 ± 0.4**	**8.0**	**20.8**	**4/1/100**	**17:48:44**
148	2000	0.01 ± 0.16	NEG	-0.2 ± 1.0	0.0 ± 0.1	2.1	6.1	4/1/100	17:50:24
149	2001	0.06 ± 0.16	NEG	0.3 ± 0.8	0.1 ± 0.1	5.9	8.5	4/1/100	17:50:53
150	2002	0.00 ± 0.10	NEG	0.5 ± 0.7	0.0 ± 0.1	1.0	18.5	4/1/100	17:51:18
151	**2003**	**0.27 ± 0.20**	**POS**	**2.2 ± 0.6**	**2.1 ± 0.3**	**10.0**	**20.9**	**4/1/100**	**17:52:29**
152	**2004**	**1.78 ± 1.34**	**POS**	**3.3 ± 1.1**	**3.3 ± 0.6**	**10.0**	**8.6**	**4/1/100**	**17:53:30**
153	2005	0.01 ± 0.11	NEG	0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	17:53:56
154	**2006**	**0.93 ± 0.71**	**POS**	**3.3 ± 1.3**	**3.3 ± 0.6**	**10.0**	**6.1**	**4/1/100**	**17:54:14**
155	**2007**	**0.24 ± 0.16**	**POS**	**1.6 ± 0.4**	**1.6 ± 0.2**	**10.0**	**43.3**	**4/1/100**	**17:55:30**
156	2008	0.28 ± 0.24	NEG	0.6 ± 0.7	0.3 ± 0.1	5.9	20.9	4/1/100	17:57:17
157	2009	0.27 ± 0.28	NEG	0.6 ± 0.7	0.3 ± 0.1	6.6	20.9	4/1/100	17:58:09
158	2010	0.15 ± 0.29	NEG	-0.3 ± 1.1	0.2 ± 0.1	4.0	8.6	4/1/100	17:58:59
159	2011	0.20 ± 0.35	NEG	0.3 ± 0.9	0.2 ± 0.2	6.2	13.5	4/1/100	17:59:26
160	2012	0.00 ± 0.10	NEG	0.3 ± 0.7	0.0 ± 0.1	1.0	8.5	4/1/100	18:00:02
161	2013	0.01 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	3.1	6.1	4/1/100	18:00:28
162	**2014**	**0.99 ± 1.12**	**POS**	**3.4 ± 1.3**	**3.4 ± 0.6**	**7.7**	**6.1**	**4/1/100**	**18:01:21**
163	**2015**	**0.64 ± 0.47**	**POS**	**2.9 ± 1.1**	**2.9 ± 0.5**	**10.0**	**8.6**	**4/1/100**	**18:02:17**
164	**2016**	**0.77 ± 0.59**	**POS**	**4.4 ± 1.3**	**4.4 ± 0.7**	**10.0**	**6.1**	**4/1/100**	**18:02:43**
165	2017	0.12 ± 0.15	NEG	-0.3 ± 0.7	0.1 ± 0.1	7.9	18.4	4/1/100	18:03:10
166	2018	0.12 ± 0.10	NEG	0.4 ± 0.4	0.4 ± 0.2	10.0	50.4	4/1/100	18:03:53
167	2019	0.12 ± 0.22	NEG	0.7 ± 0.7	0.1 ± 0.1	5.8	20.9	4/1/100	18:05:50

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Site: Date: 4/1/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
168	2020	0.09 ± 0.30	NEG	0.0 ± 1.1	0.1 ± 0.1	4.4	8.6	4/1/100	18:06:45
169	2021	0.01 ± 0.10	NEG	0.9 ± 0.7	0.0 ± 0.1	1.0	20.9	4/1/100	18:07:13
170	2022	0.00 ± 0.10	NEG	-0.6 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	18:08:22
171	2023	0.04 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	8.4	4/1/100	18:08:58
172	2024	0.03 ± 0.10	NEG	-1.0 ± 1.1	0.0 ± 0.1	1.0	6.0	4/1/100	18:09:25
173	2025	0.47 ± 0.23	NEG	0.1 ± 0.7	0.5 ± 0.1	4.7	20.9	4/1/100	18:09:50
174	**2026**	**0.39 ± 0.36**	**POS**	**3.0 ± 0.9**	**3.0 ± 0.5**	**5.3**	**11.1**	**4/1/100**	**18:10:52**
175	**2027**	**0.82 ± 0.68**	**POS**	**4.8 ± 1.5**	**4.8 ± 0.8**	**10.0**	**3.7**	**4/1/100**	**18:11:27**
176	2028	0.03 ± 0.18	NEG	0.3 ± 0.9	0.0 ± 0.1	2.8	8.6	4/1/100	18:12:14
177	2029	0.00 ± 0.10	NEG	-0.3 ± 0.9	0.0 ± 0.1	1.0	6.1	4/1/100	18:13:02
178	2030	0.03 ± 0.16	NEG	-0.1 ± 0.9	0.0 ± 0.1	4.0	6.1	4/1/100	18:13:50
179	2031	0.10 ± 0.22	NEG	-0.7 ± 1.2	0.1 ± 0.1	6.1	6.2	4/1/100	18:14:37
180	2032	0.17 ± 0.30	NEG	0.0 ± 0.7	0.2 ± 0.1	3.8	8.5	4/1/100	18:16:54
181	2033	0.25 ± 0.36	NEG	-0.1 ± 0.7	0.3 ± 0.2	7.2	13.4	4/1/100	18:18:39
182	**2034**	**2.71 ± 3.39**	**POS**	**5.2 ± 1.7**	**5.2 ± 0.9**	**10.0**	**6.0**	**4/1/100**	**18:21:56**
183	2035	0.12 ± 0.28	NEG	-0.3 ± 1.2	0.1 ± 0.1	5.9	6.1	4/1/100	18:22:24
184	**2036**	**>>5.0 ± 1.00**	**POS**	**5.7 ± 4.0**	**5.7 ± 2.0**	**10.0**	**1.2**	**4/1/100**	**18:22:46**
185	2037	0.35 ± 0.25	INCOM	0.2 ± 0.7	0.2 ± 0.3	10.0	18.3	4/1/100	18:24:02
186	2038	0.47 ± 0.24	NEG	0.8 ± 0.4	0.8 ± 0.2	8.6	50.2	4/1/100	18:24:54
187	**2039**	**3.88 ± 2.22**	**POS**	**6.5 ± 1.7**	**6.5 ± 0.8**	**10.0**	**6.0**	**4/1/100**	**18:27:22**
188	2040	0.19 ± 0.26	NEG	0.3 ± 0.7	0.2 ± 0.1	7.5	18.4	4/1/100	18:27:53
189	**2041**	**4.33 ± 1.76**	**POS**	**8.4 ± 2.2**	**8.4 ± 1.1**	**10.0**	**3.6**	**4/1/100**	**18:28:51**
190	2042	0.40 ± 0.28	INCOM	0.8 ± 1.5	0.4 ± 0.1	1.7	3.7	4/1/100	18:29:14
191	2043	0.30 ± 0.11	NEG	0.3 ± 0.9	0.3 ± 0.1	1.3	11.0	4/1/100	18:29:26
192	2044	0.05 ± 0.11	NEG	0.1 ± 1.0	0.0 ± 0.1	6.9	8.6	4/1/100	18:30:12
193	2045	0.00 ± 0.10	NEG	-0.4 ± 1.2	0.0 ± 0.1	1.0	6.1	4/1/100	18:30:49
194	2046	0.02 ± 0.10	NEG	-0.5 ± 1.3	0.0 ± 0.1	3.9	6.1	4/1/100	18:32:42
195	2047	0.11 ± 0.10	NEG	0.8 ± 0.4	0.8 ± 0.2	10.0	50.2	4/1/100	18:32:59

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Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
196	**2048**	**0.62 ± 0.10**	**POS**	**3.3 ± 1.2**	**3.3 ± 0.6**	**10.0**	**8.5**	**4/1/100**	**18:34:57**
197	**2049**	**0.67 ± 0.47**	**POS**	**3.0 ± 1.1**	**3.0 ± 0.6**	**10.0**	**10.9**	**4/1/100**	**18:35:23**
198	2050	0.11 ± 0.20	NEG	0.1 ± 0.9	0.1 ± 0.1	6.9	11.1	4/1/100	18:35:52
199	2051	0.07 ± 0.10	NEG	0.2 ± 0.5	0.1 ± 0.2	10.0	40.4	4/1/100	18:36:24
200	2052	0.12 ± 0.10	NEG	-0.5 ± 0.6	-0.5 ± 0.3	10.0	15.9	4/1/100	18:38:10
201	2053	0.00 ± 0.10	NEG	0.0 ± 0.9	0.0 ± 0.1	1.0	6.2	4/1/100	18:39:10
202	**2054**	**1.78 ± 0.33**	**POS**	**1.9 ± 1.3**	**1.8 ± 0.2**	**1.1**	**6.0**	**4/1/100**	**18:39:55**
203	**2055**	**1.42 ± 0.21**	**POS**	**1.3 ± 1.4**	**1.4 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**18:40:16**
204	**2056**	**1.53 ± 0.20**	**POS**	**2.5 ± 1.3**	**1.5 ± 0.1**	**1.0**	**6.0**	**4/1/100**	**18:40:38**

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Site: Ranges (NEG<INC<POS): Device PCS

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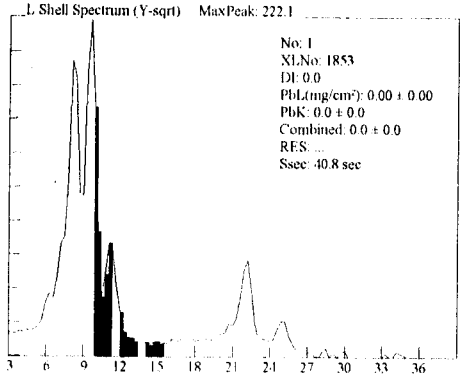

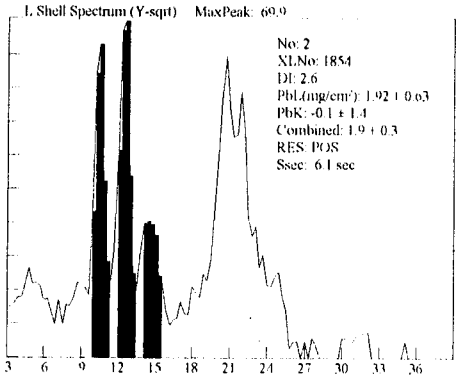

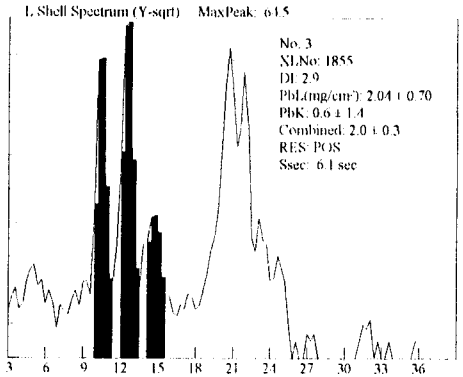

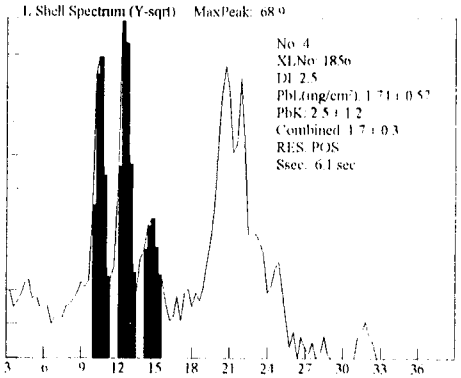

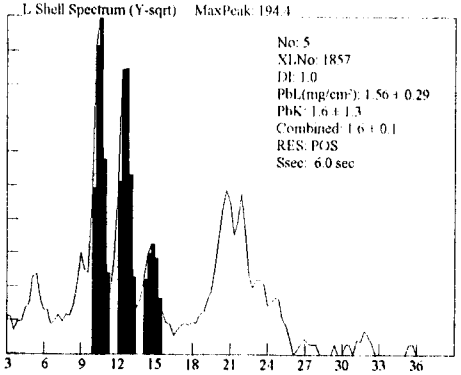

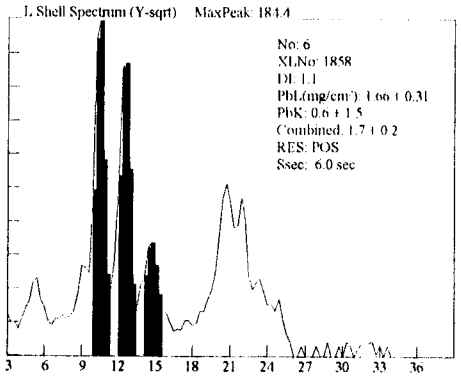

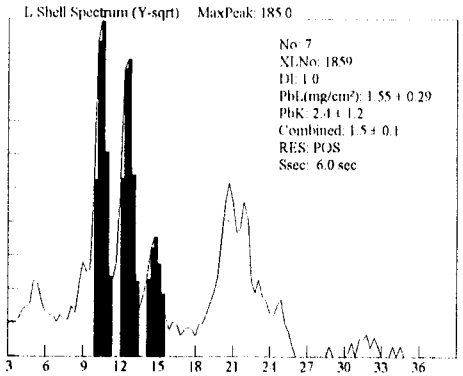

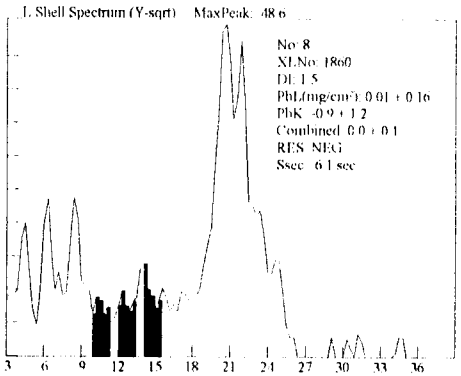

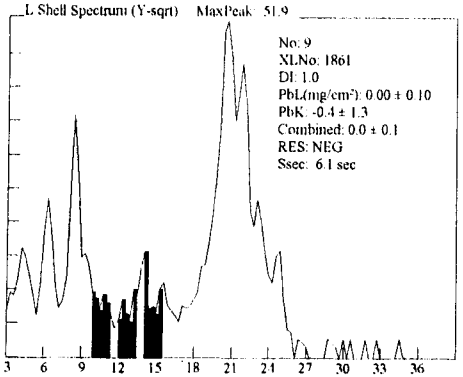

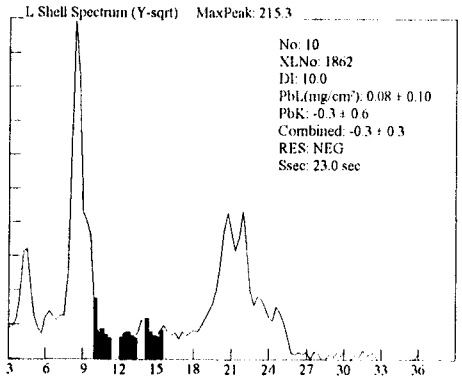

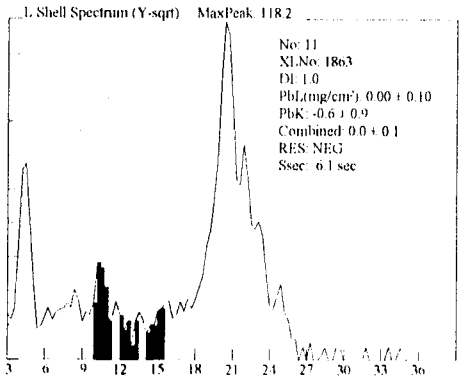

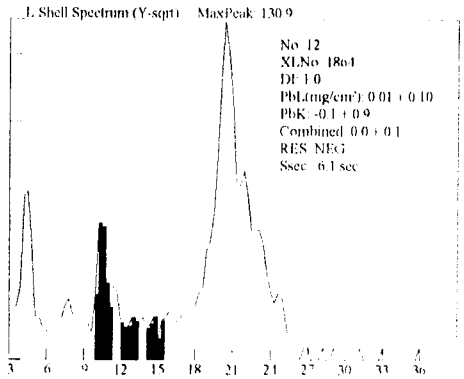

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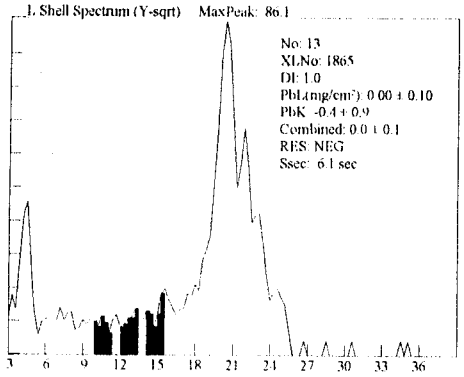

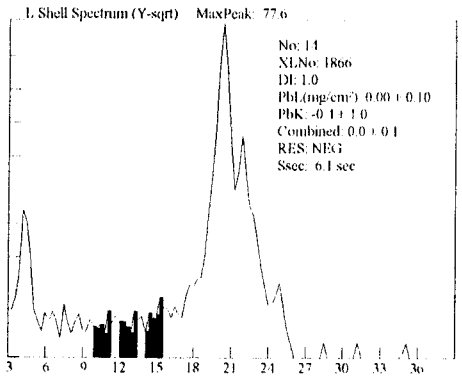

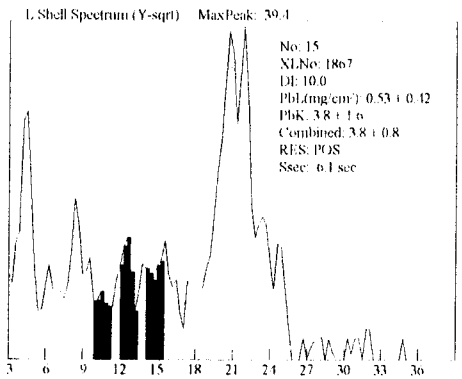

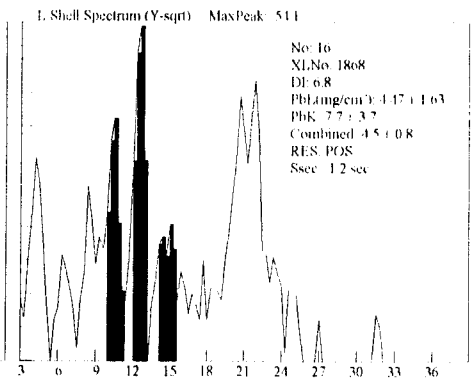

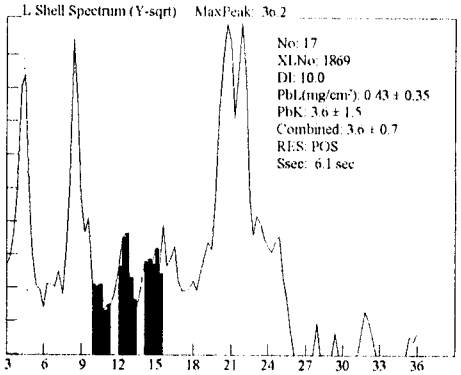

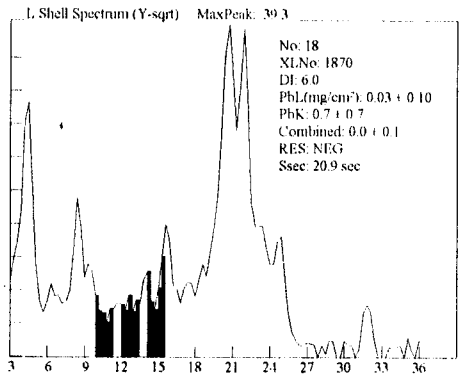

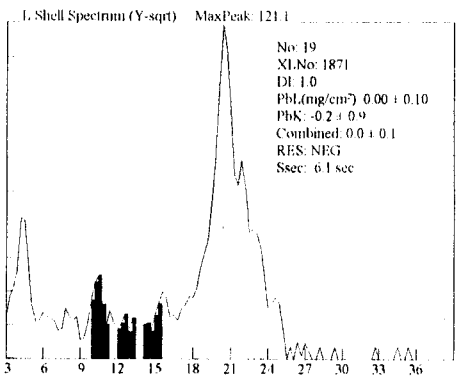

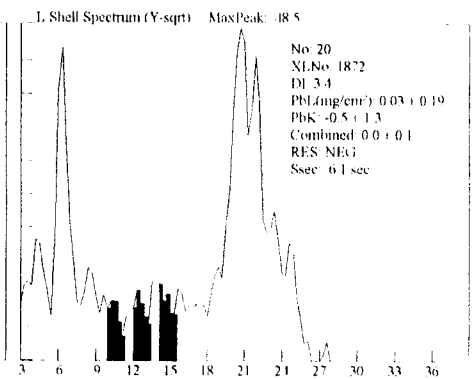

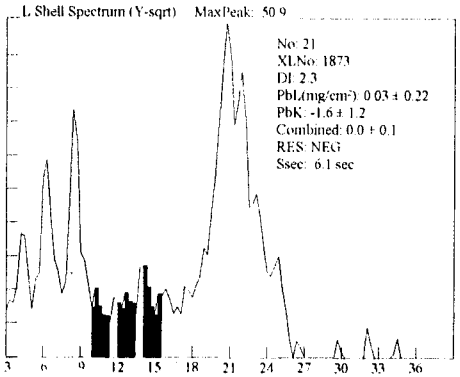

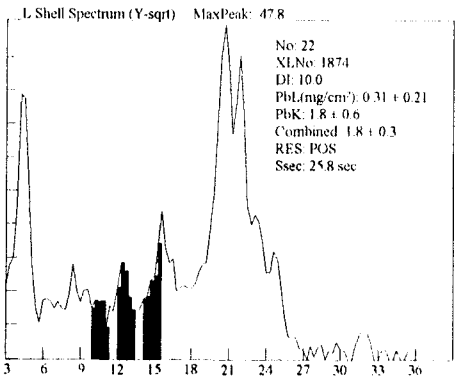

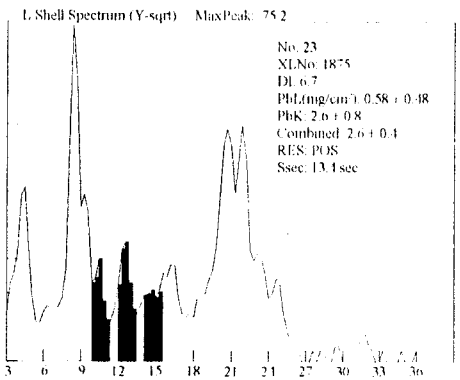

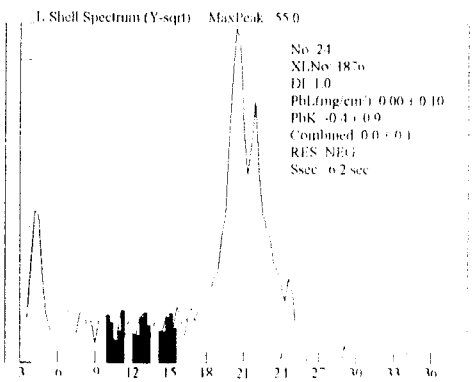

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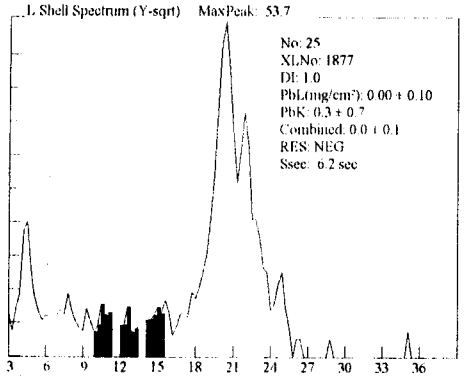

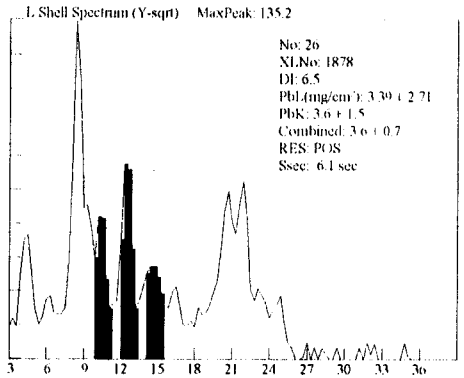

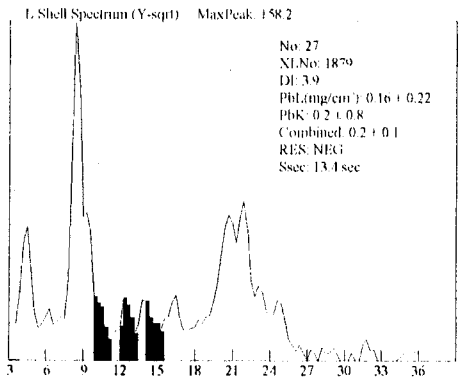

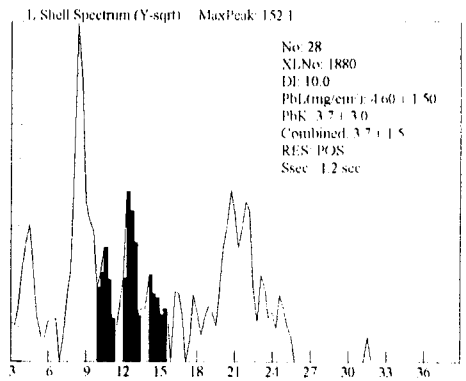

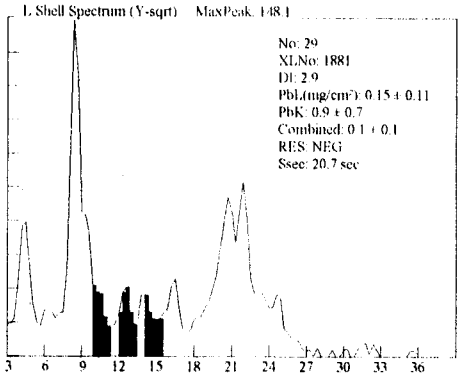

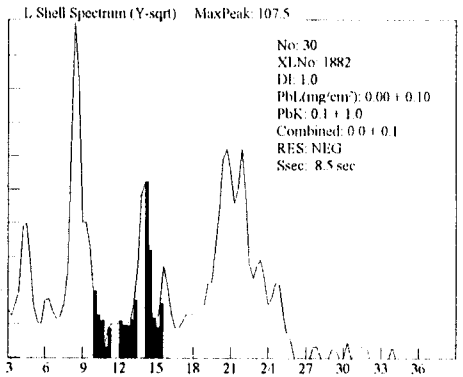

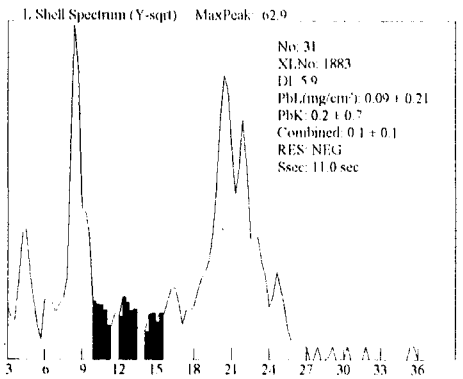

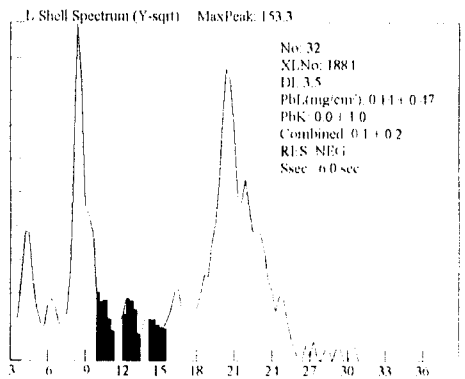

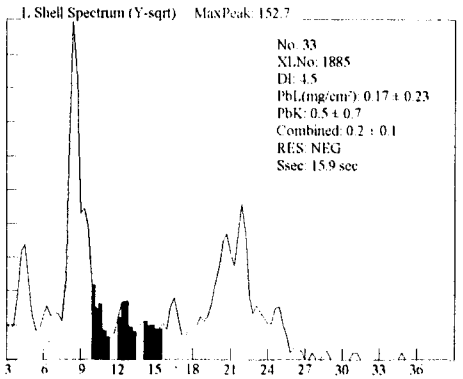

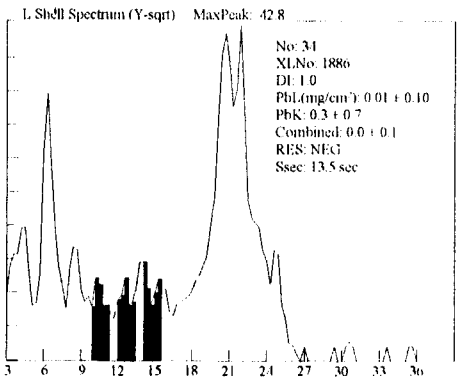

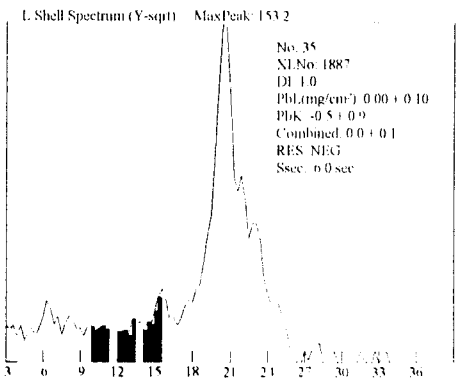

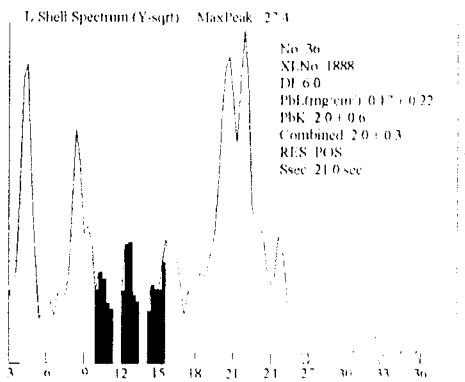

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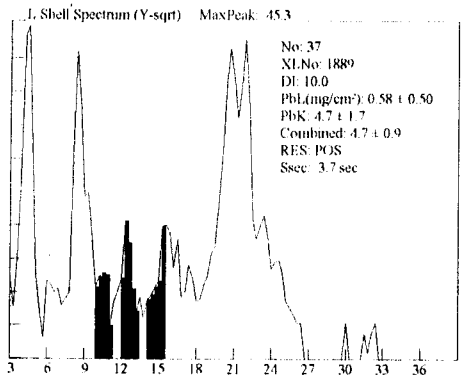

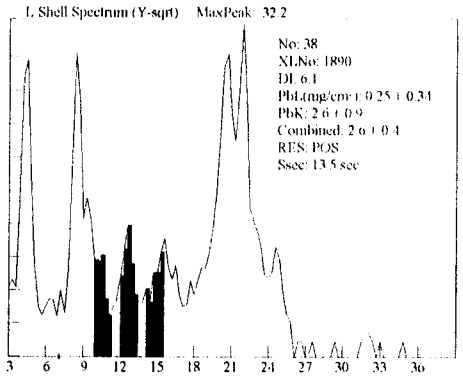

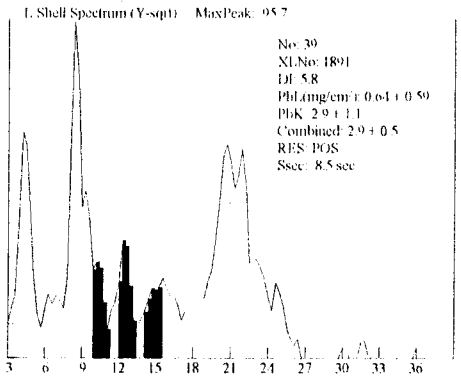

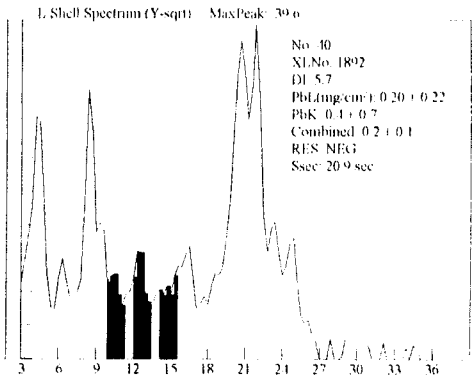

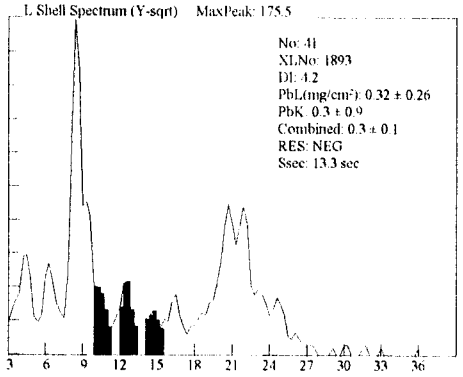

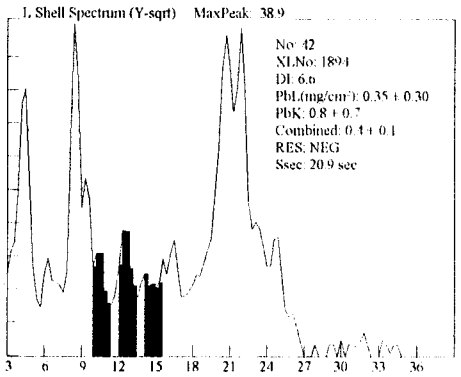

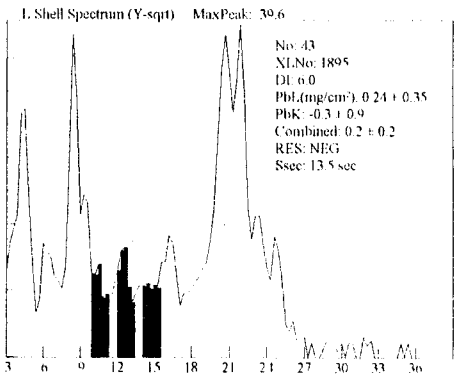

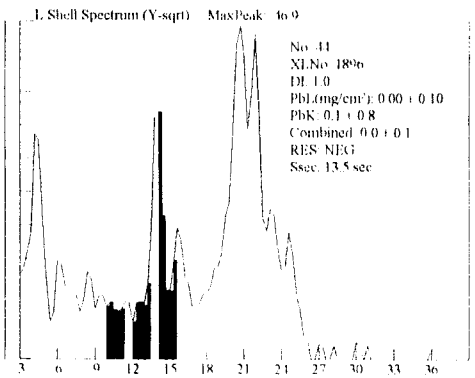

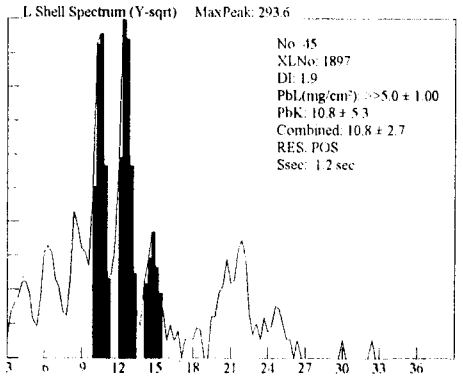

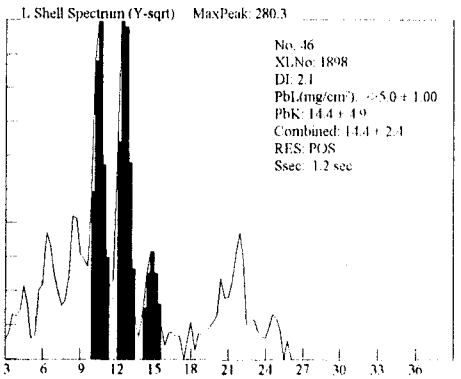

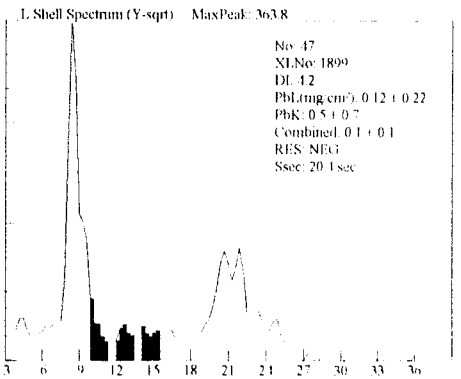

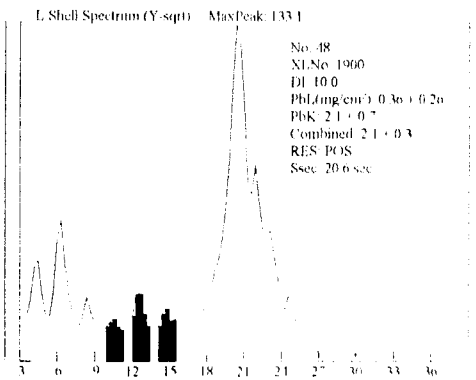

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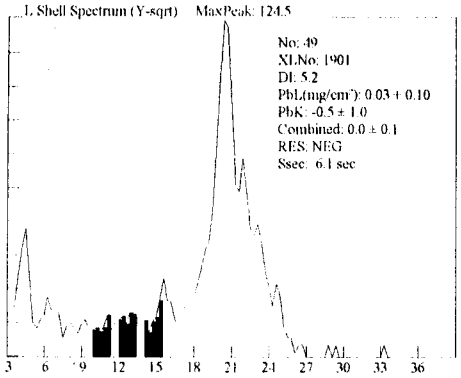

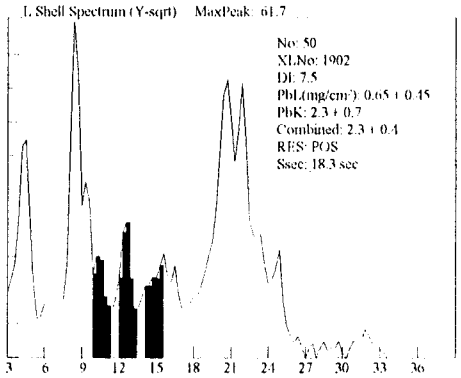

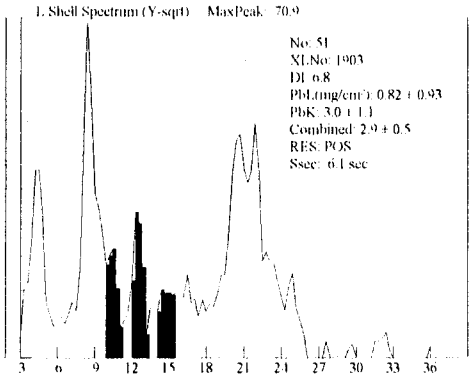

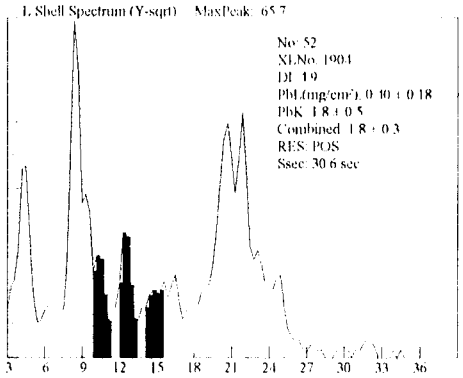

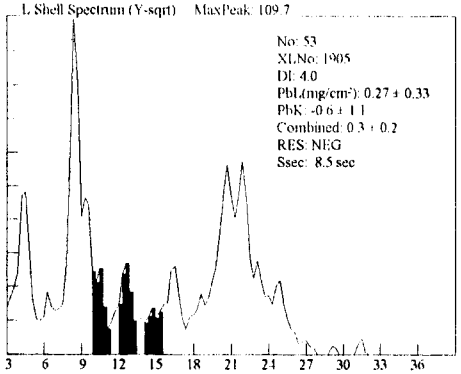

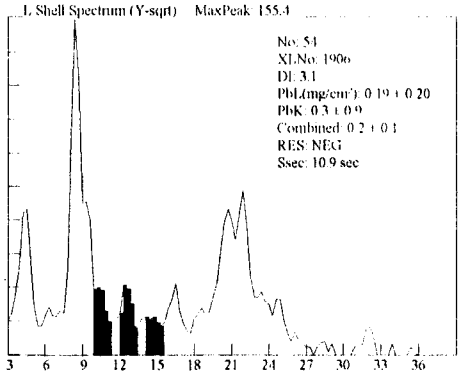

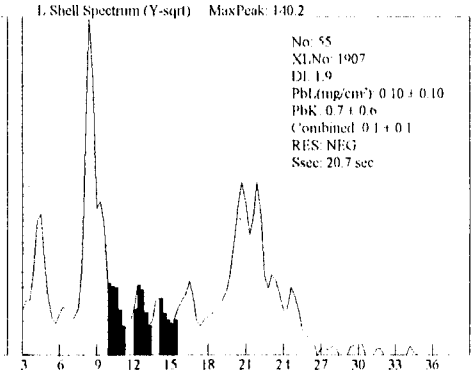

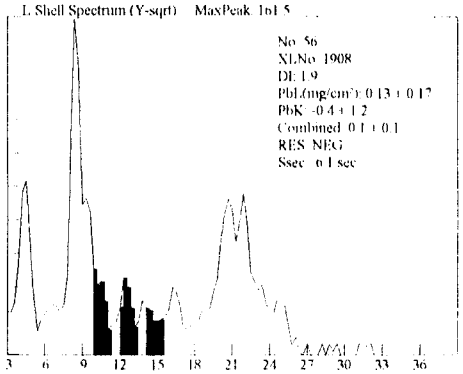

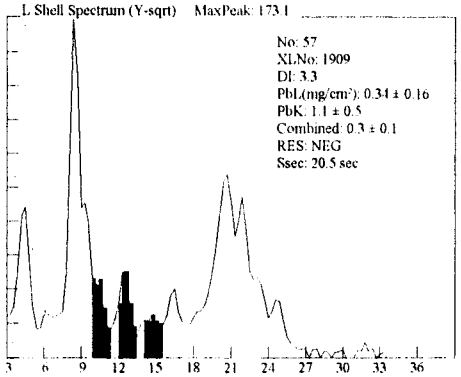

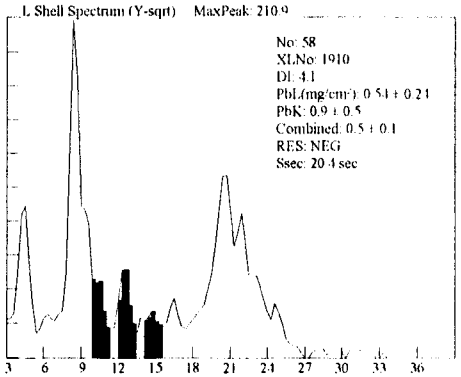

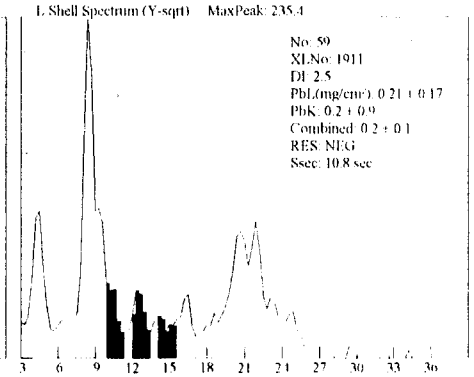

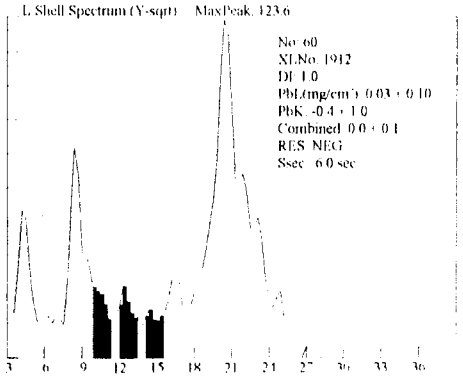

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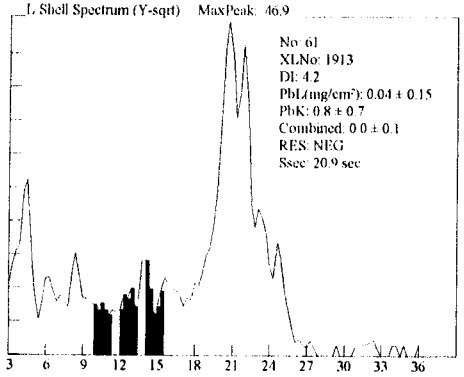

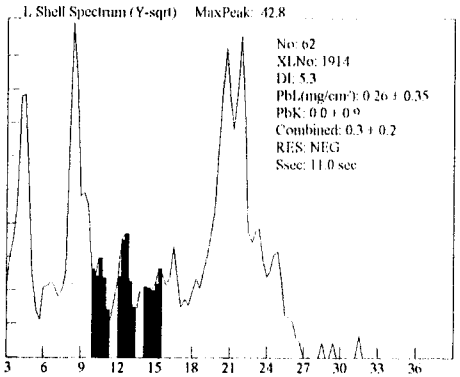

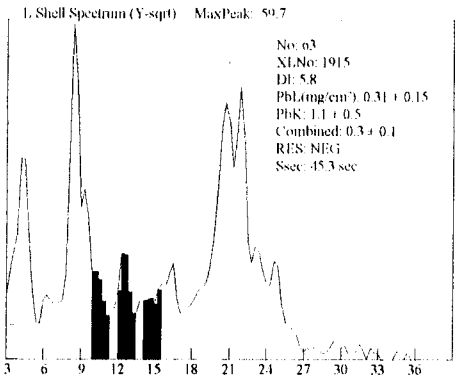

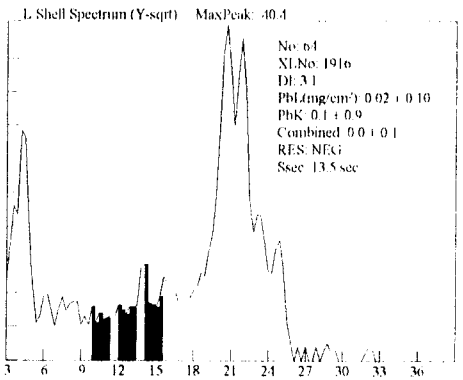

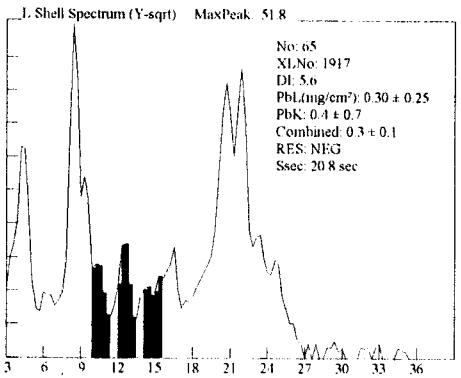

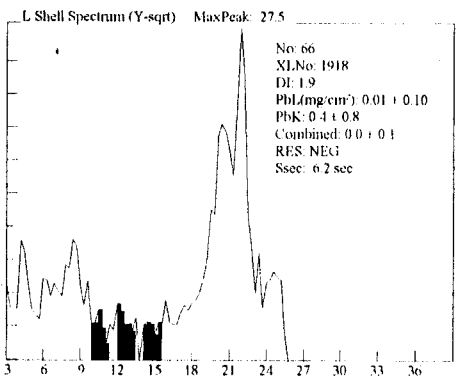

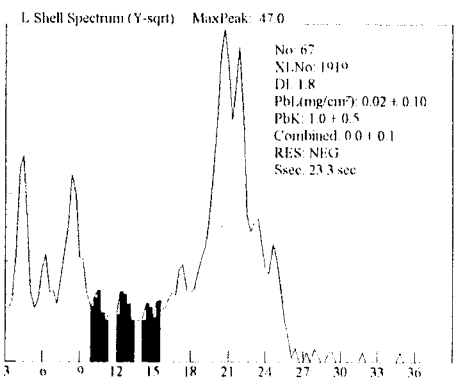

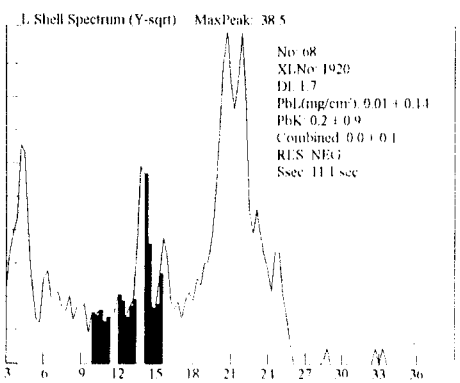

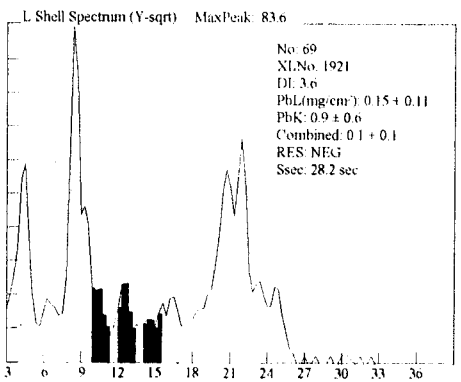

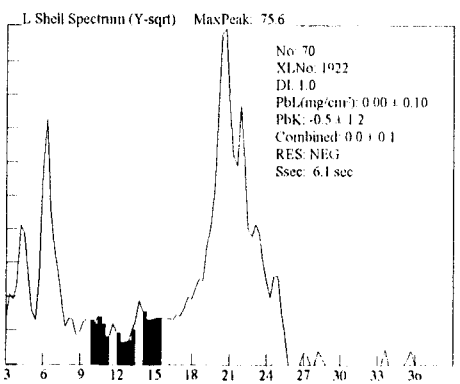

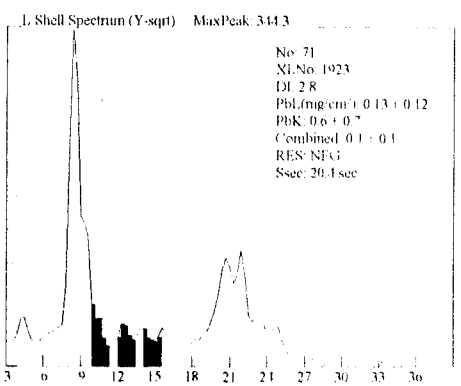

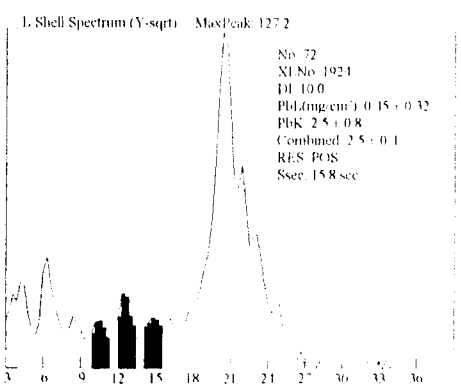

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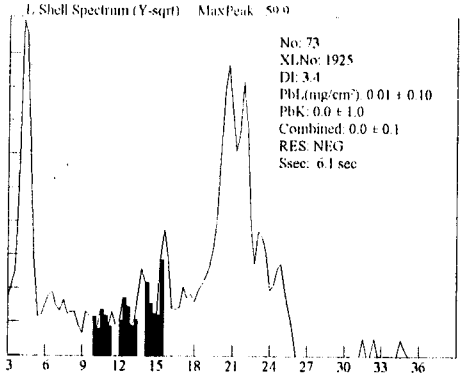

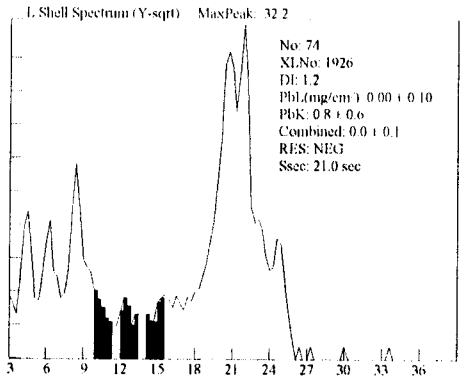

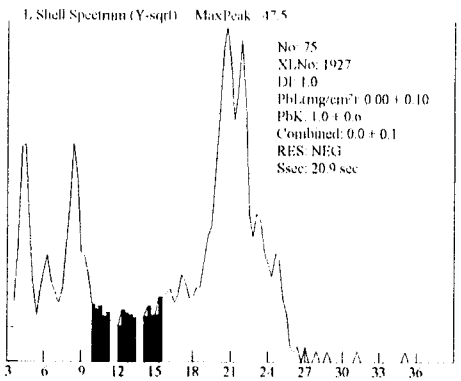

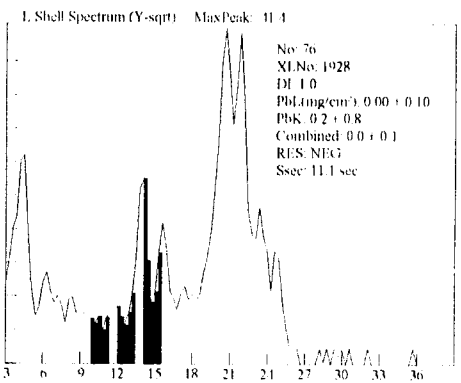

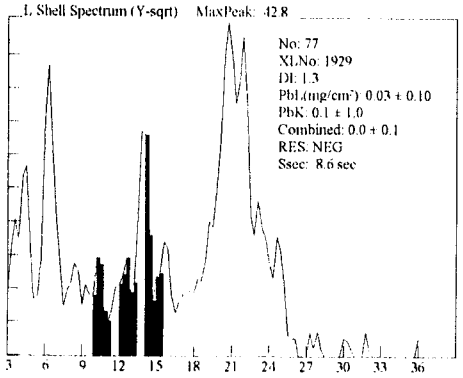

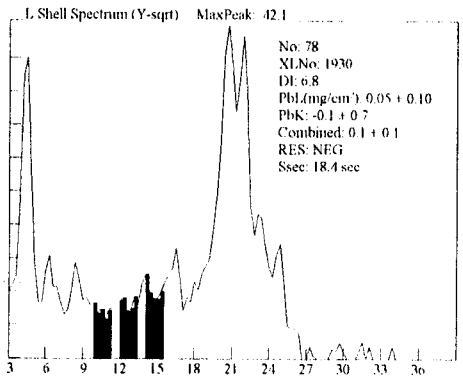

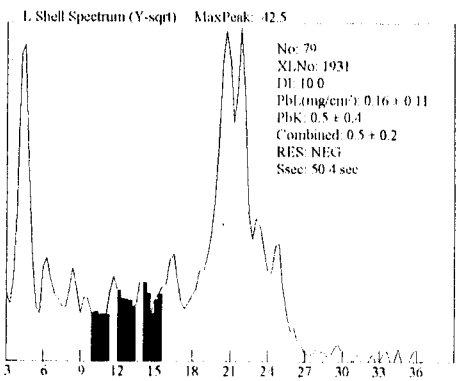

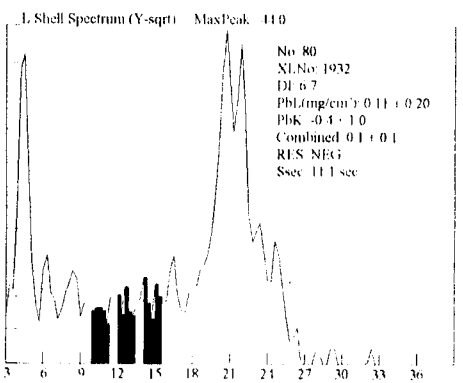

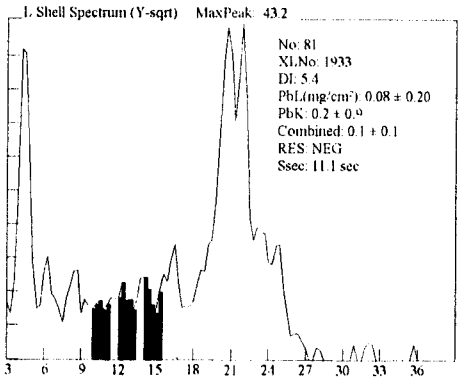

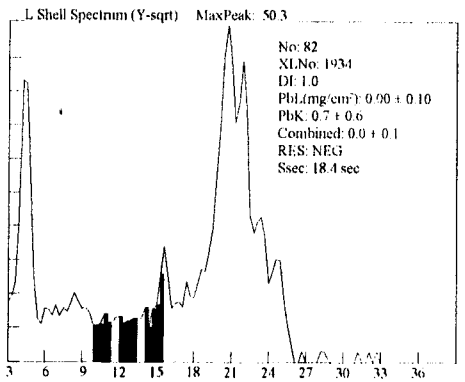

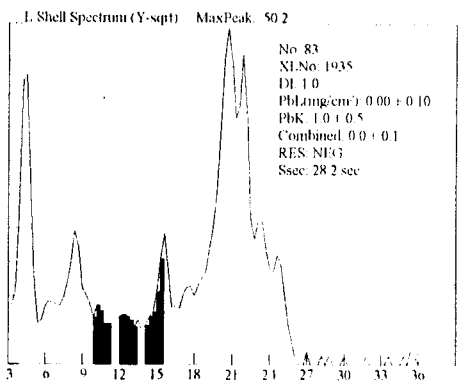

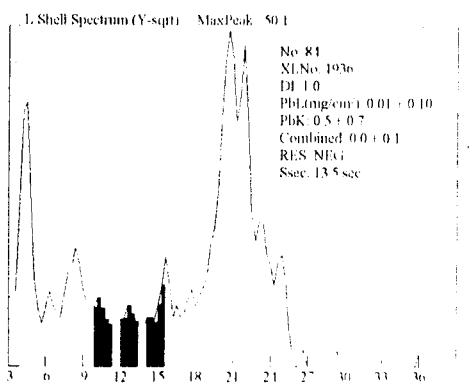

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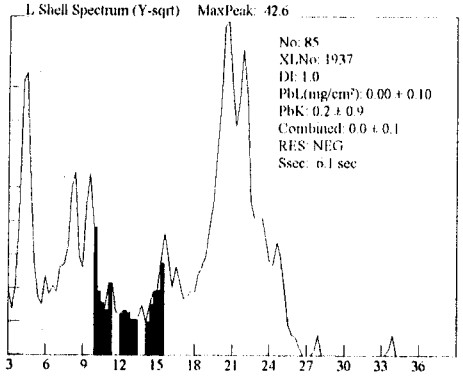

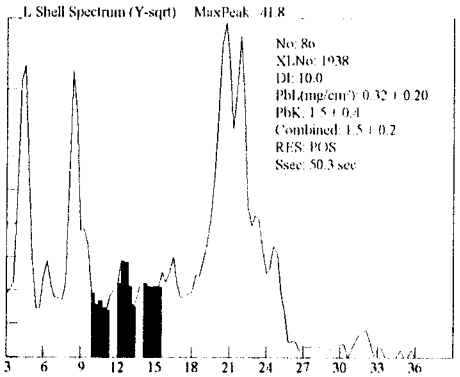

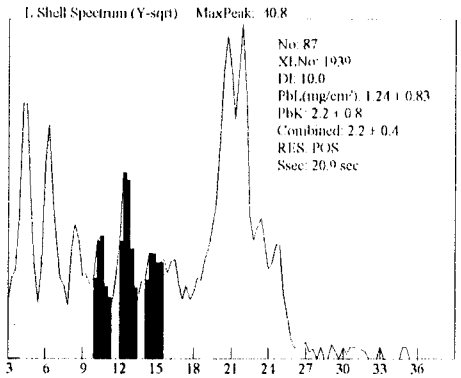

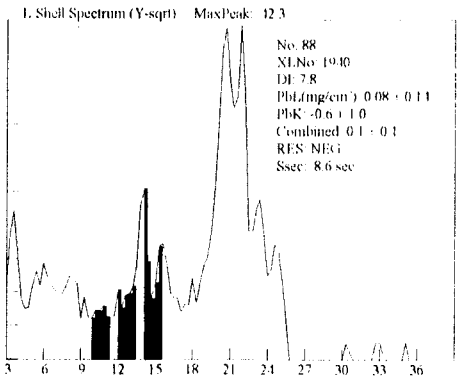

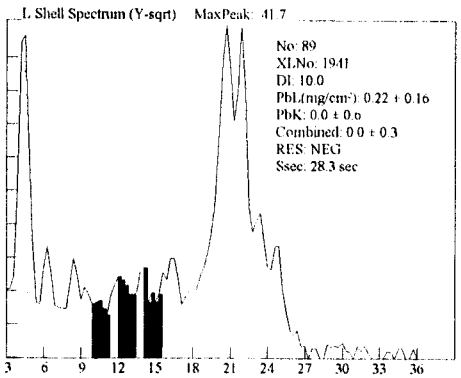

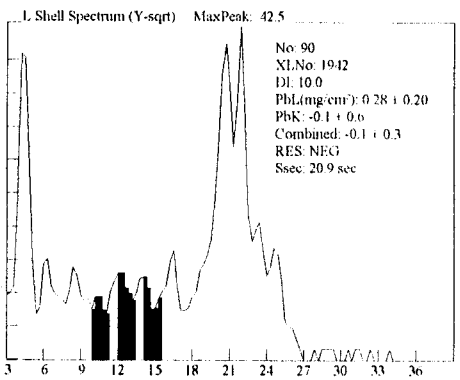

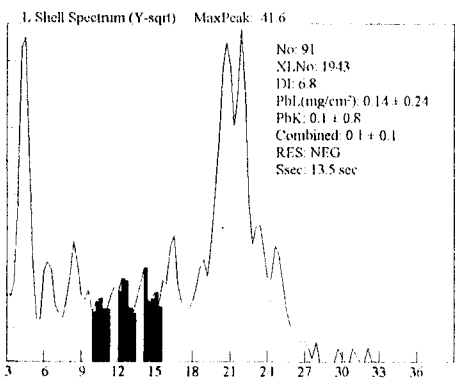

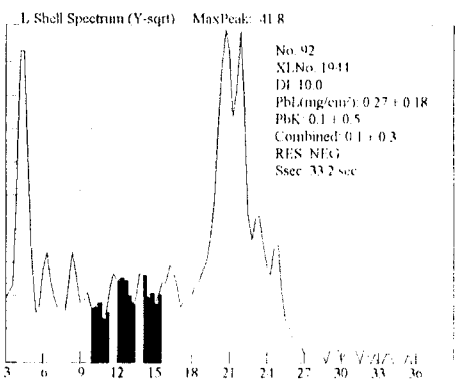

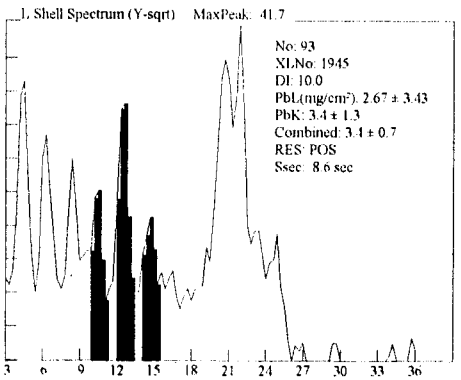

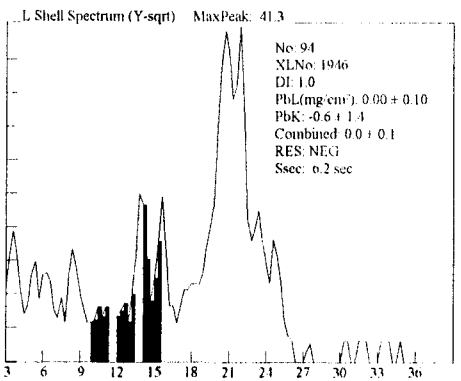

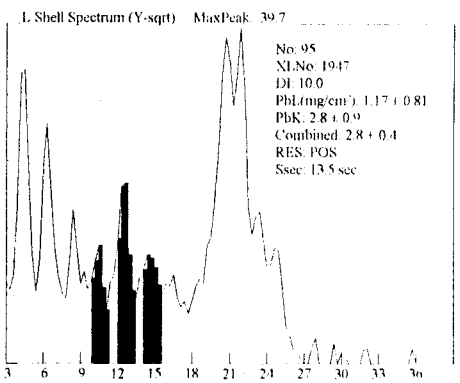

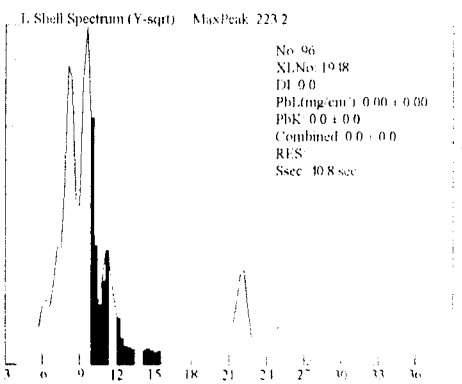

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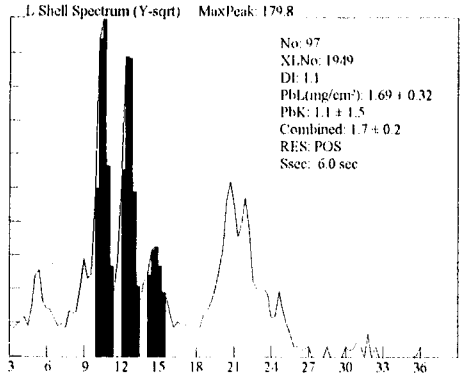

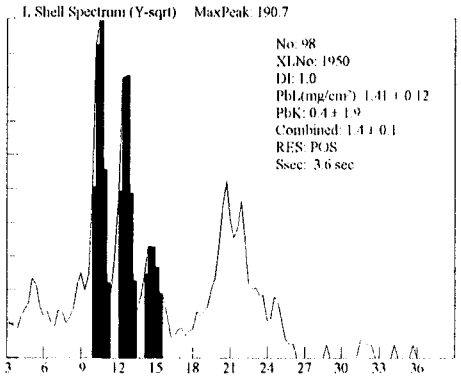

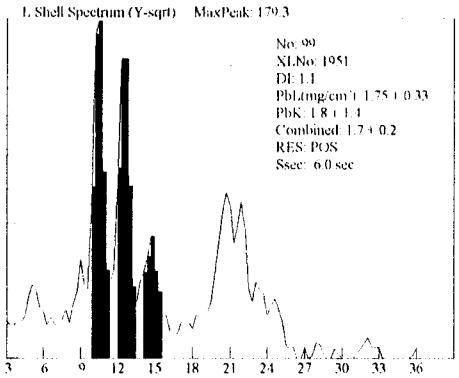

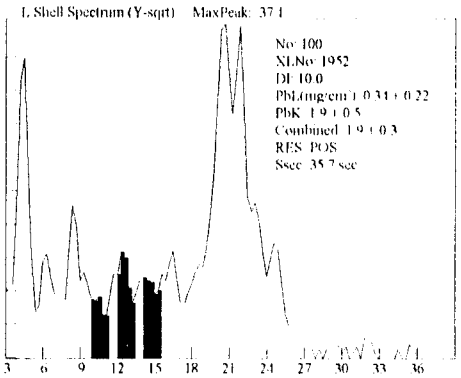

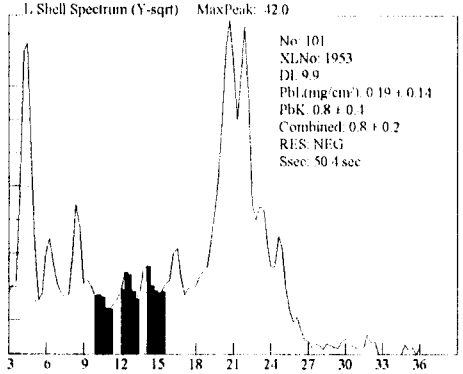

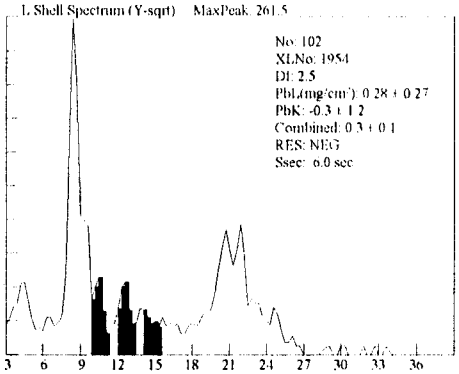

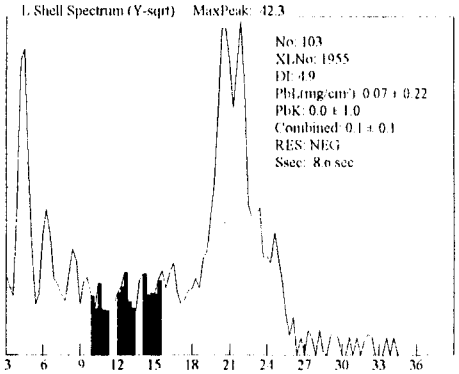

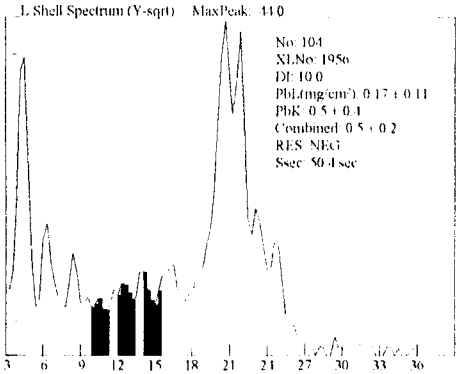

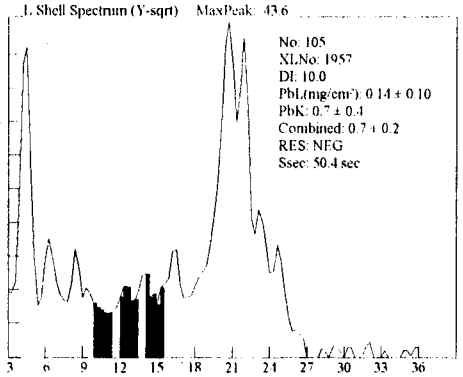

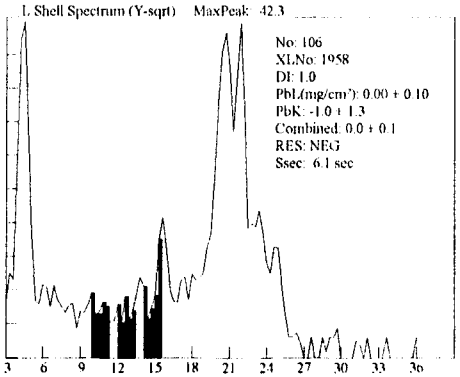

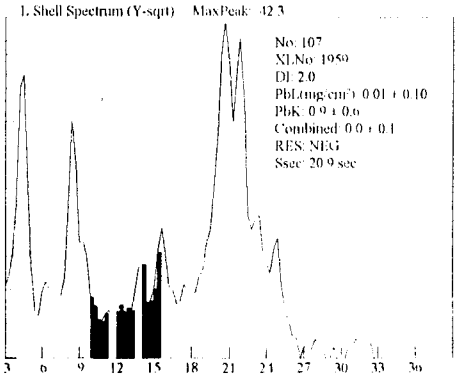

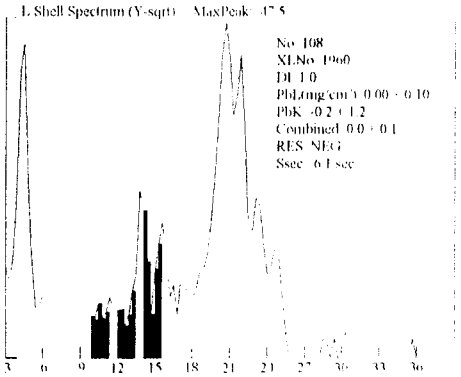

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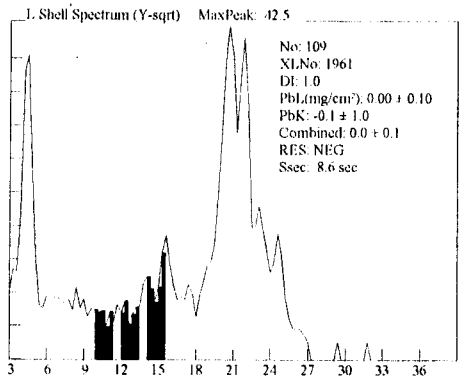

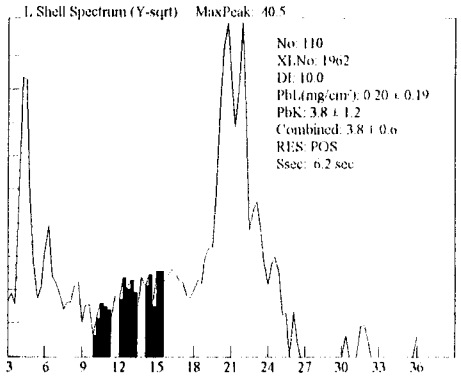

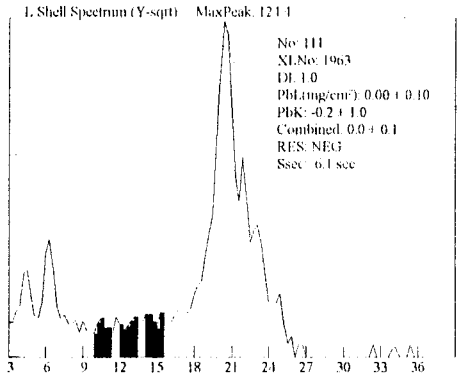

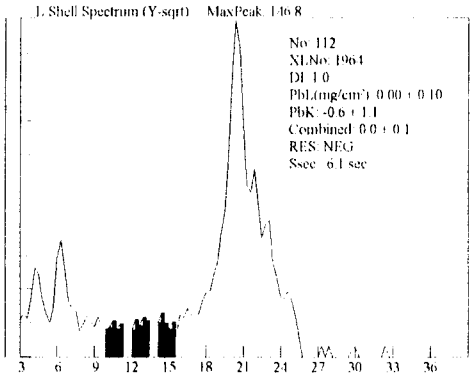

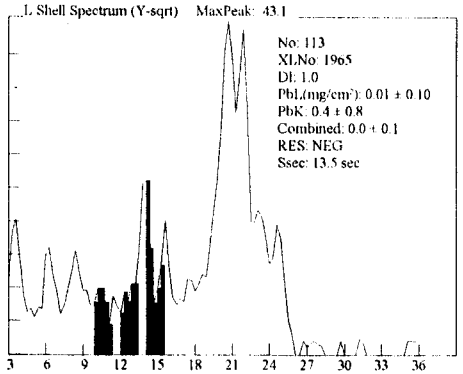

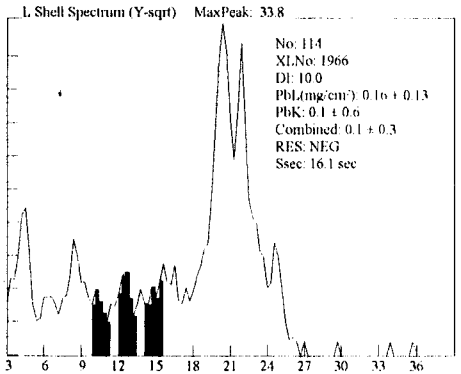

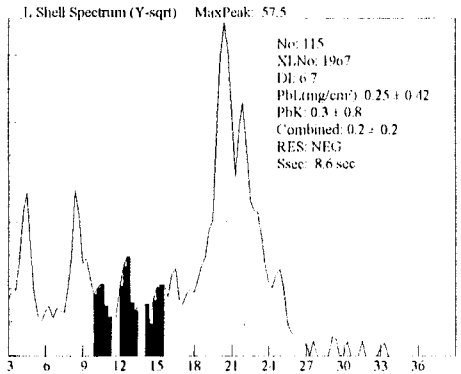

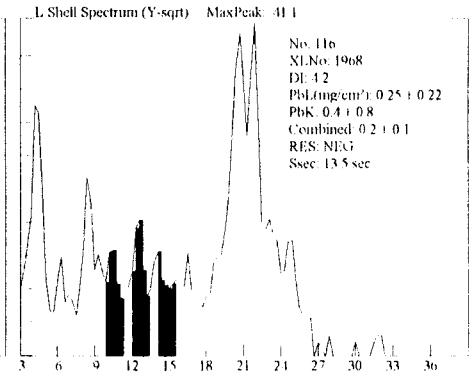

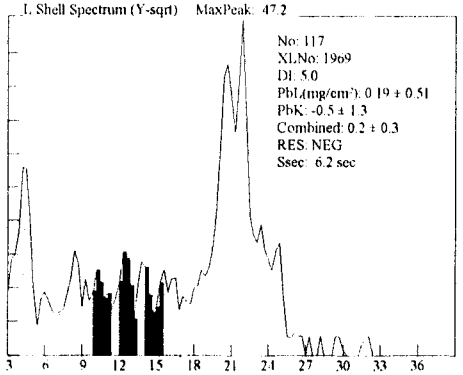

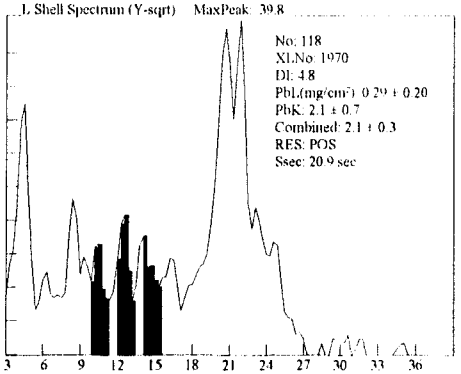

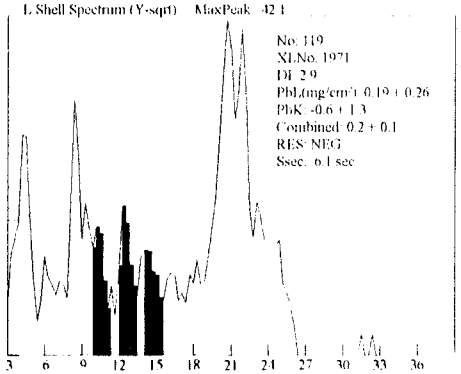

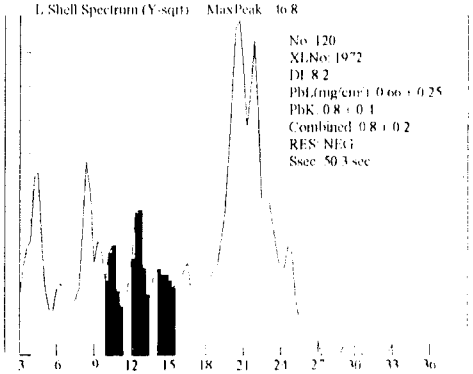

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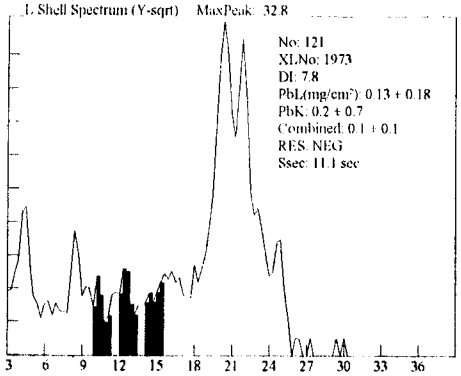

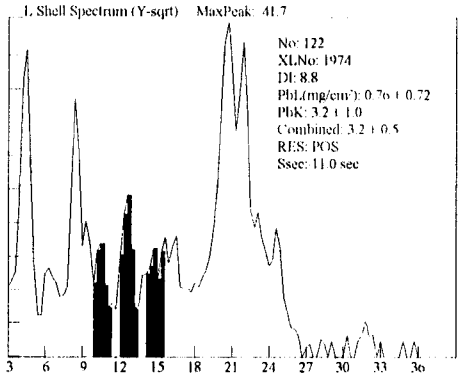

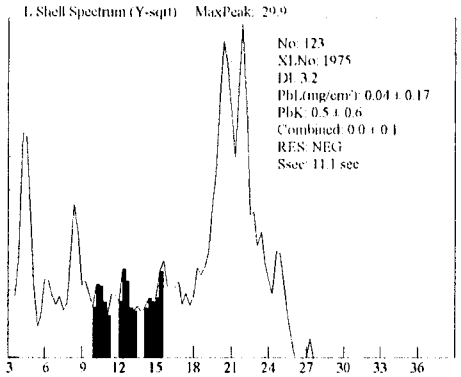

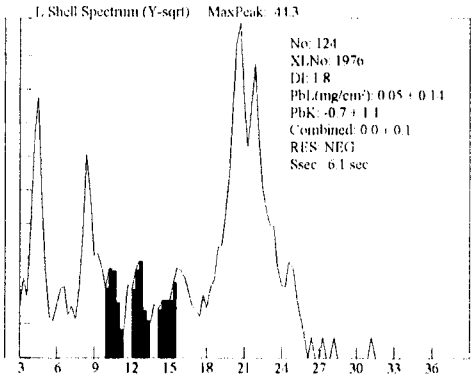

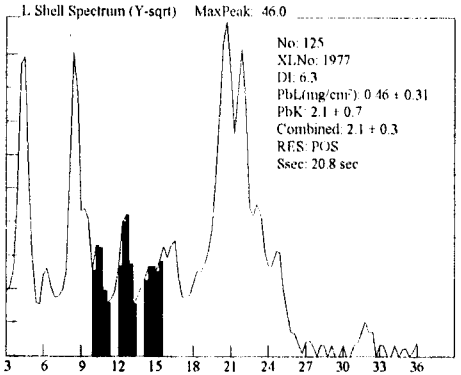

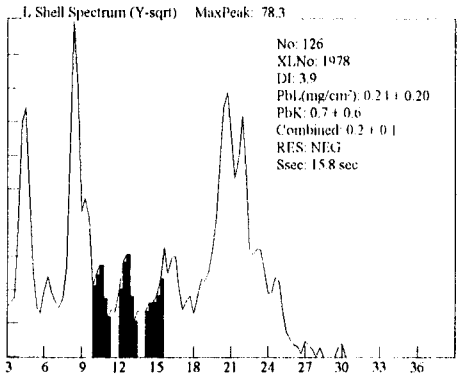

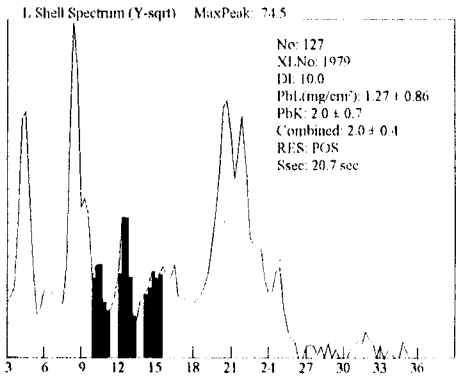

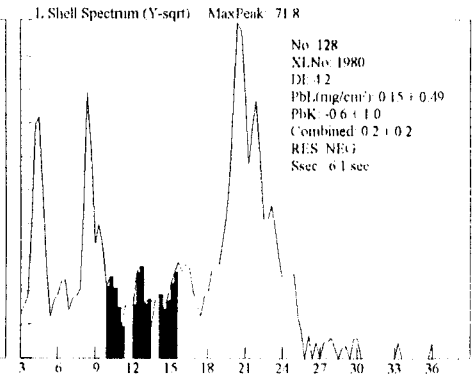

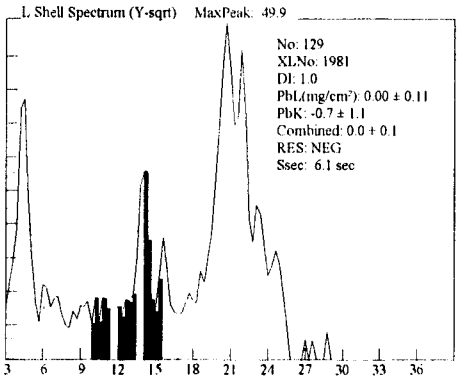

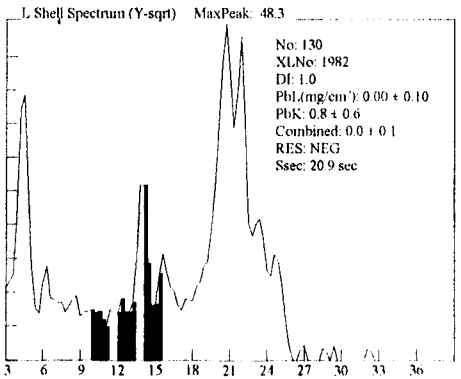

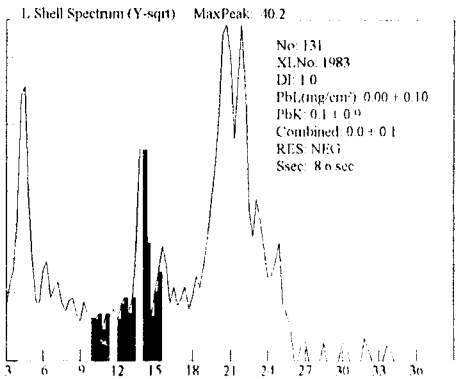

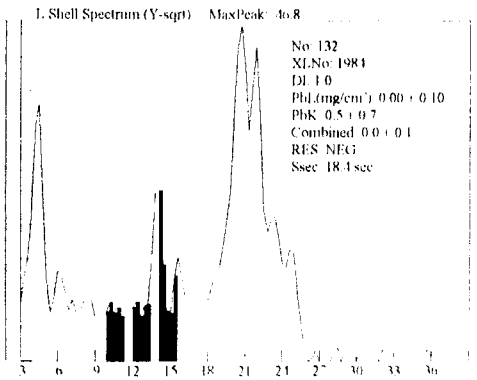

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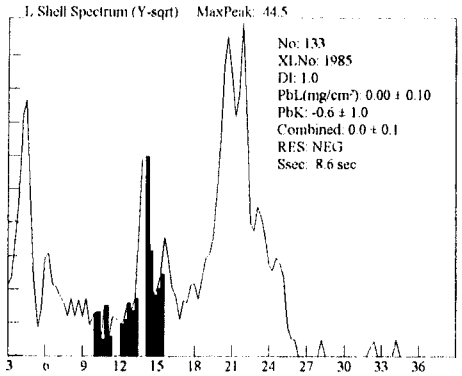

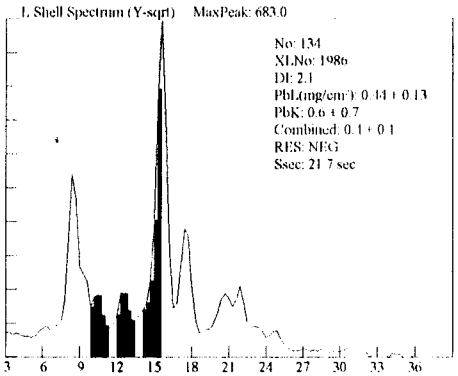

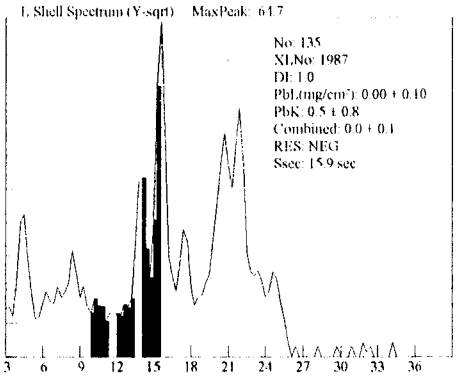

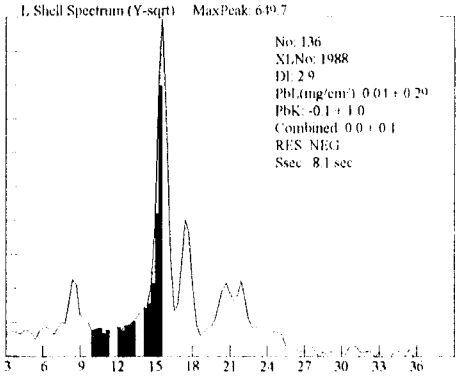

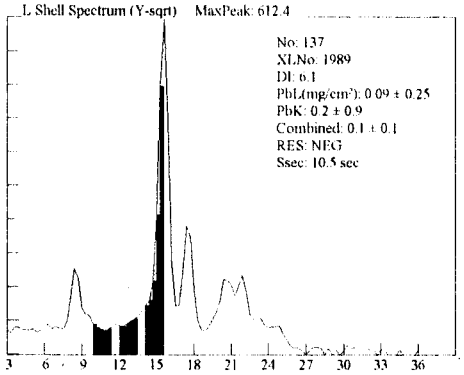

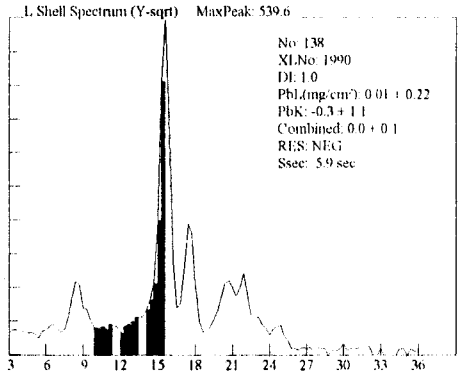

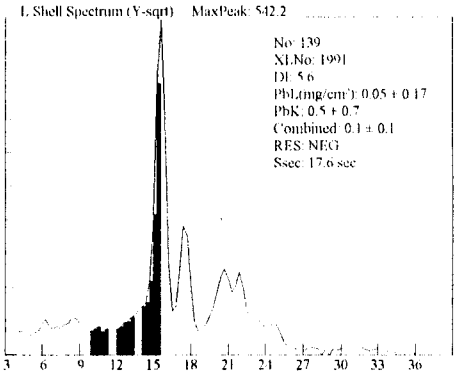

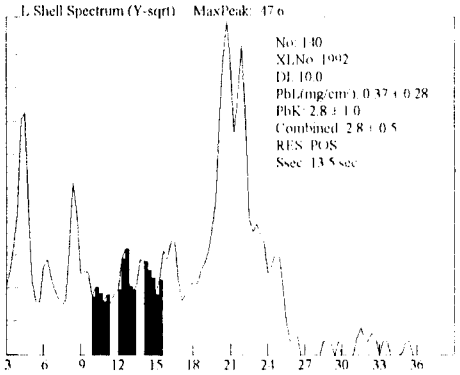

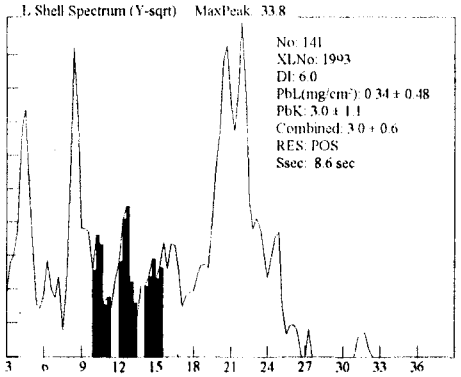

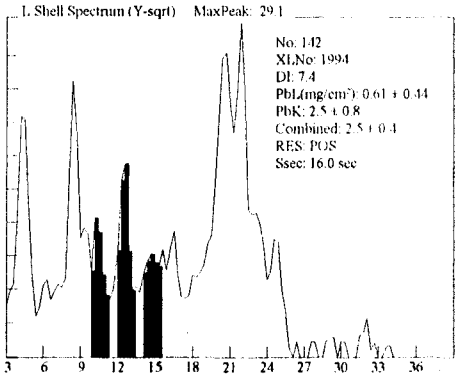

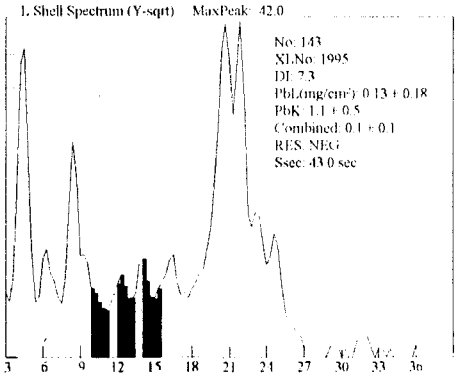

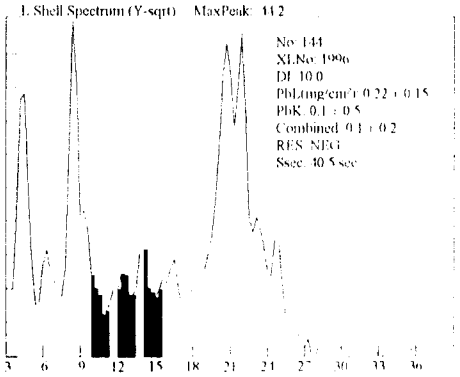

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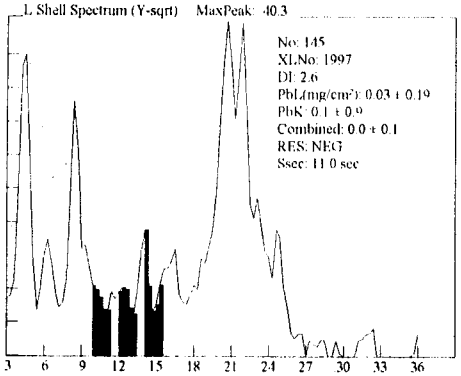

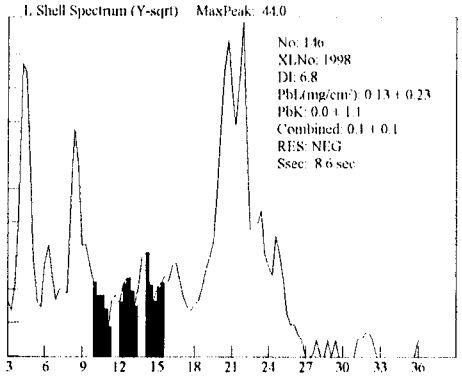

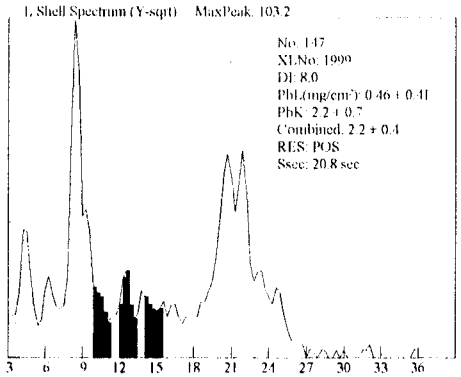

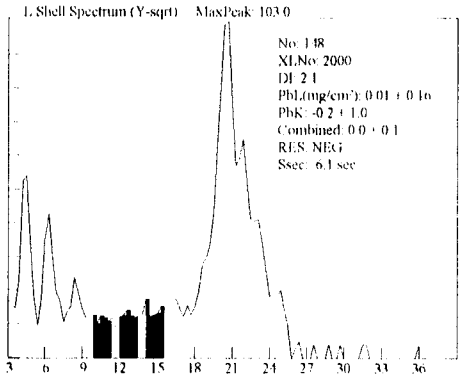

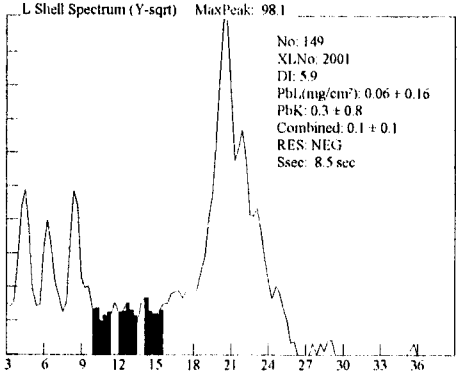

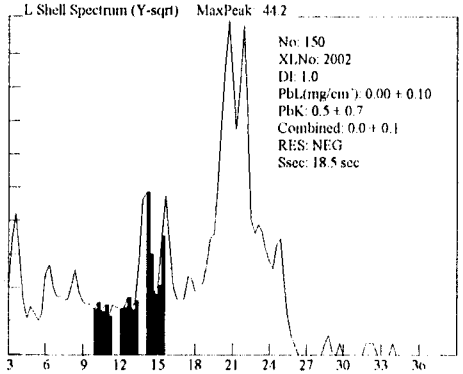

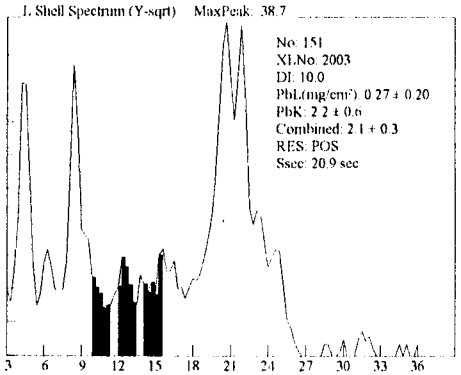

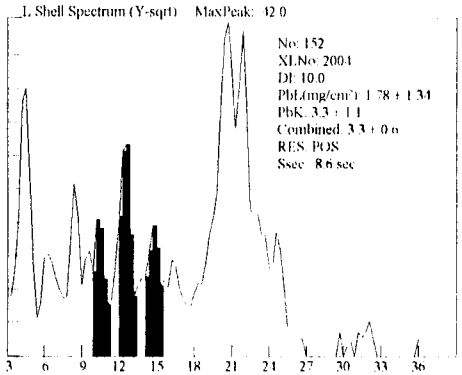

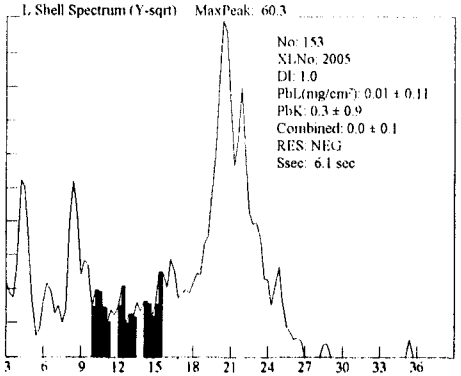

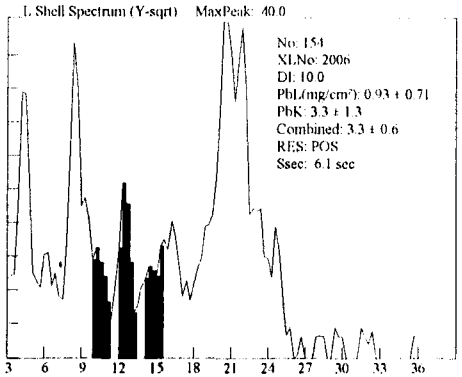

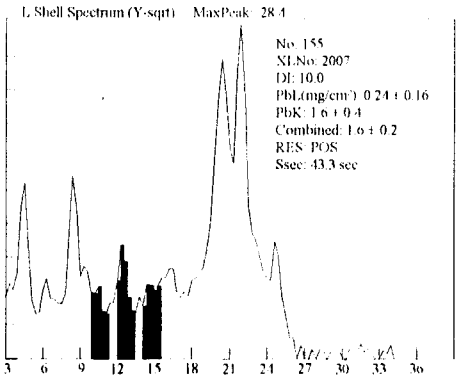

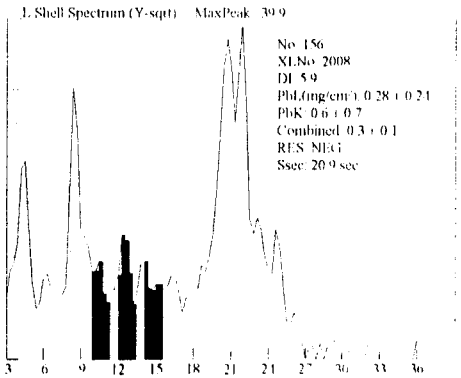

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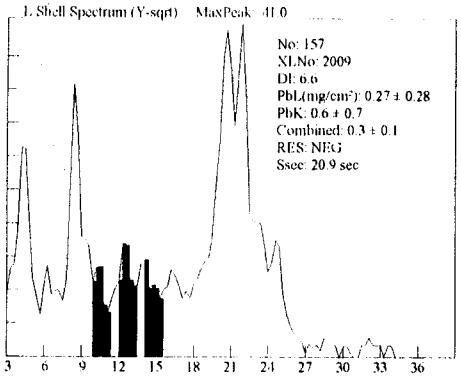

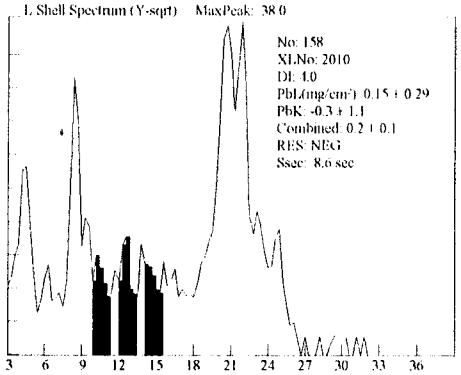

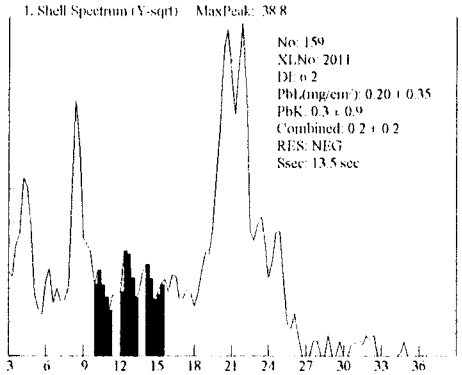

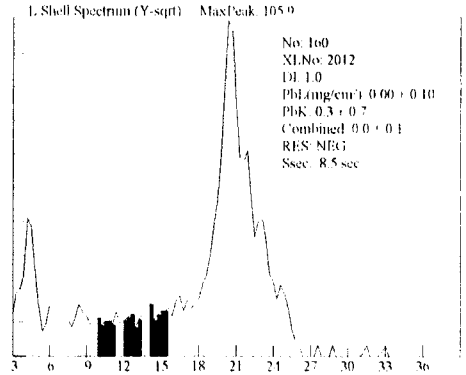

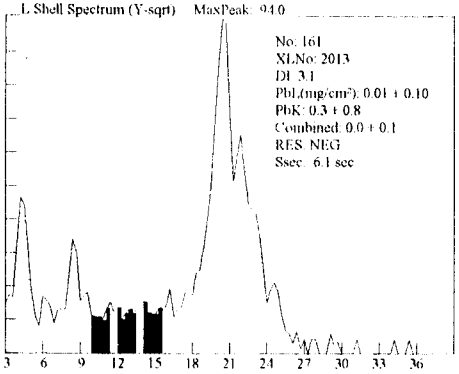

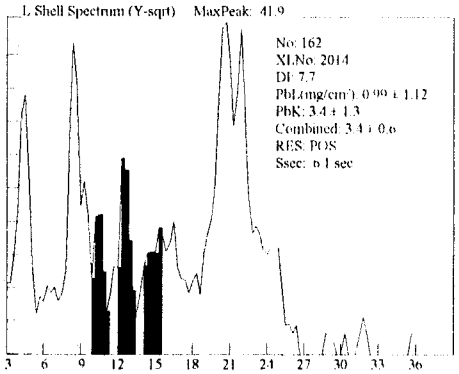

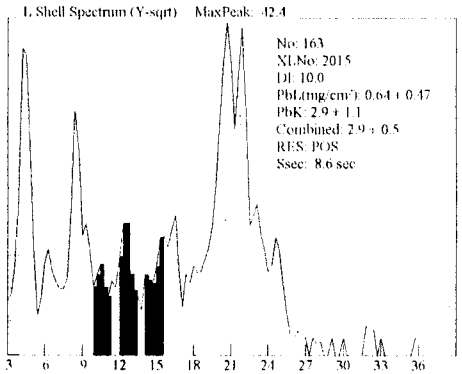

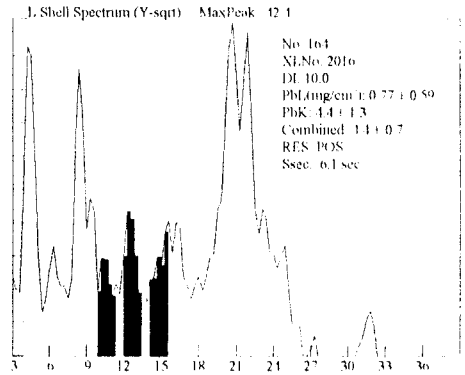

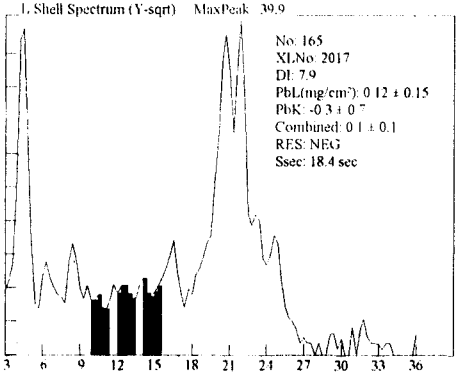

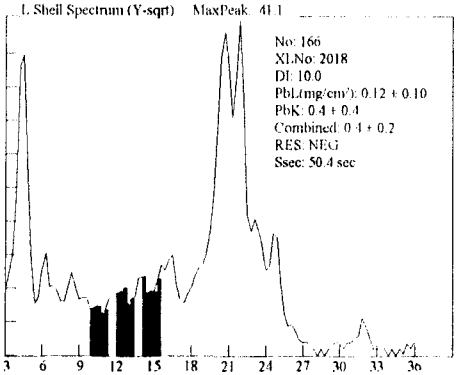

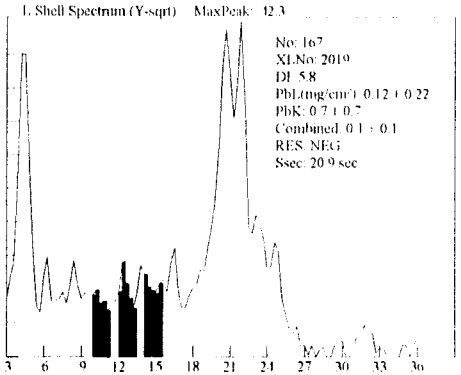

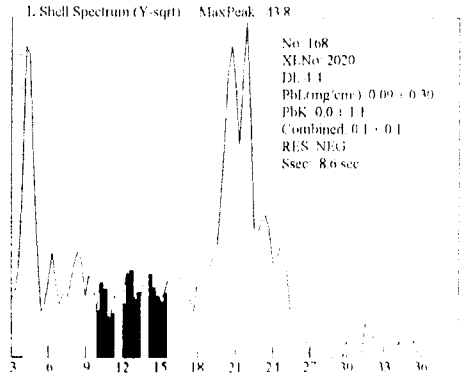

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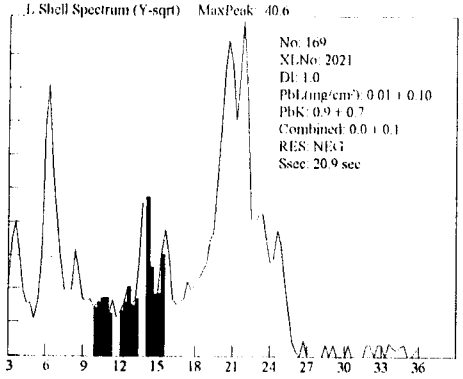

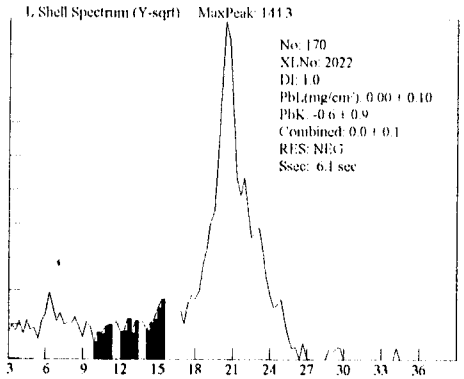

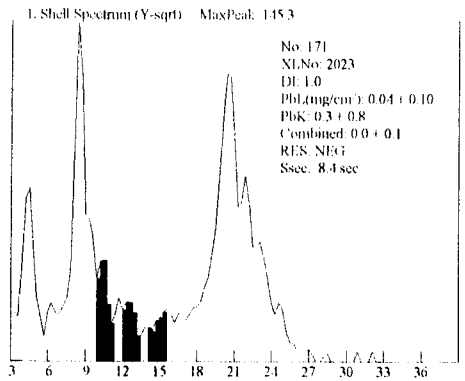

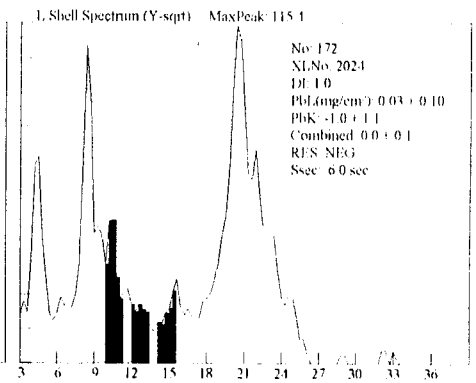

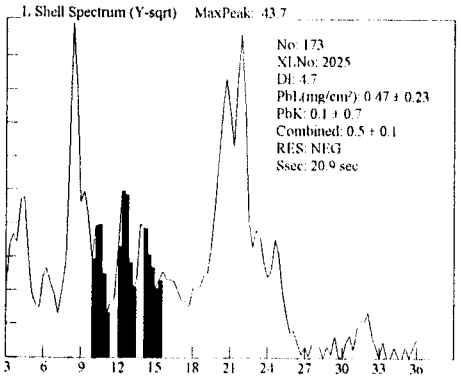

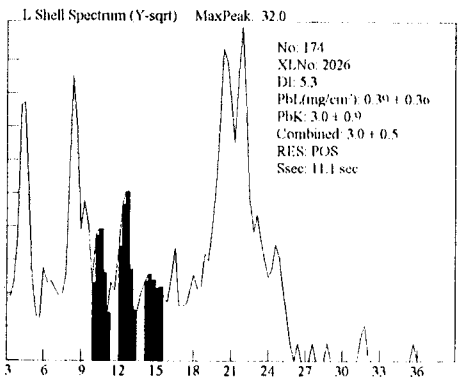

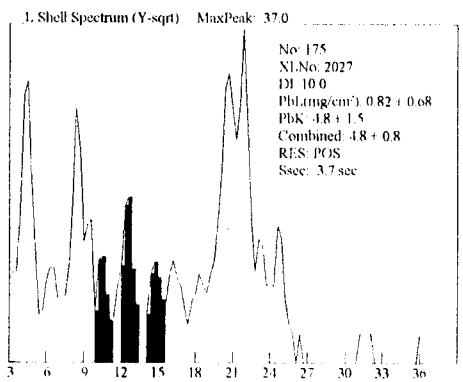

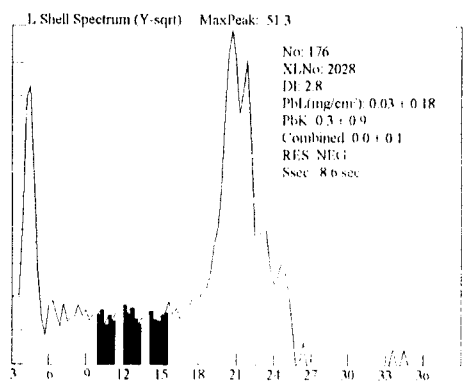

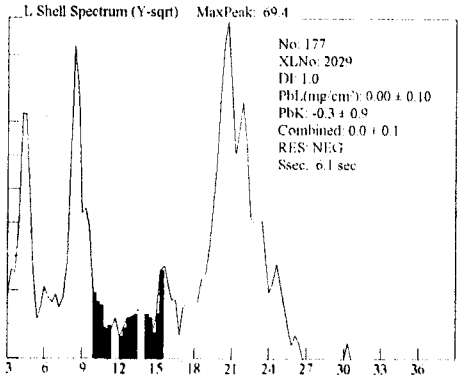

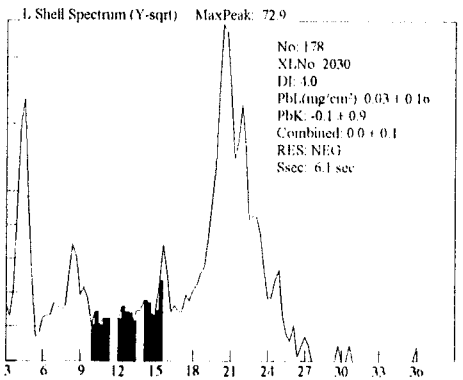

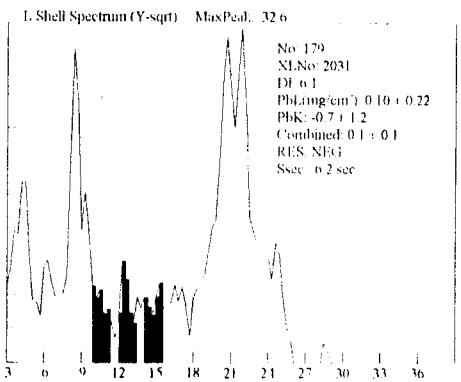

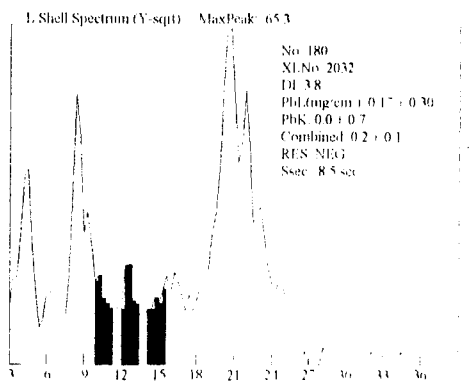

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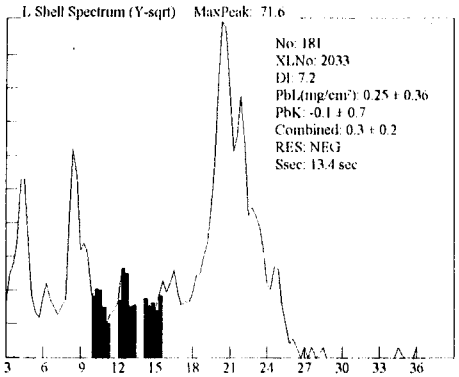

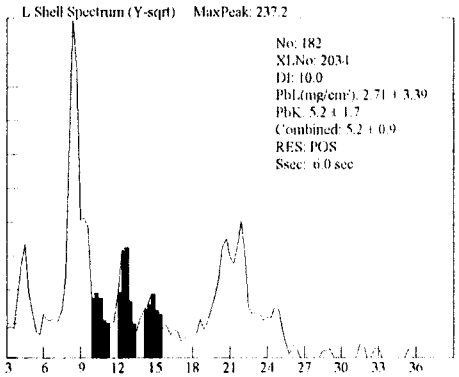

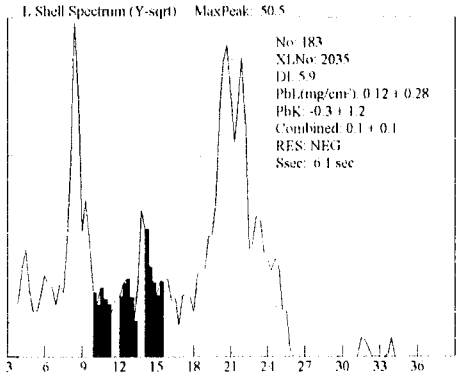

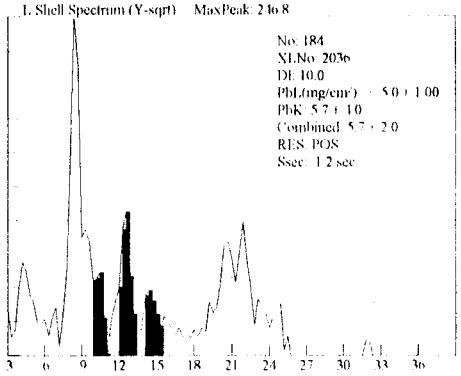

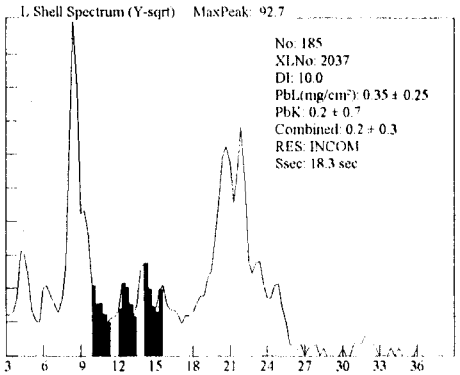

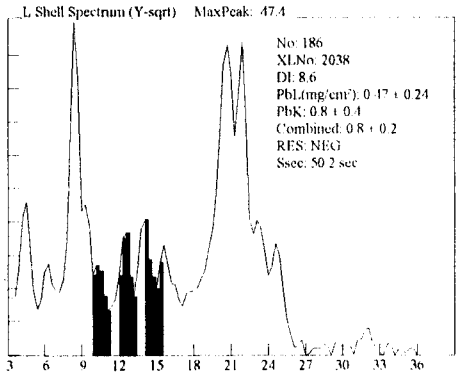

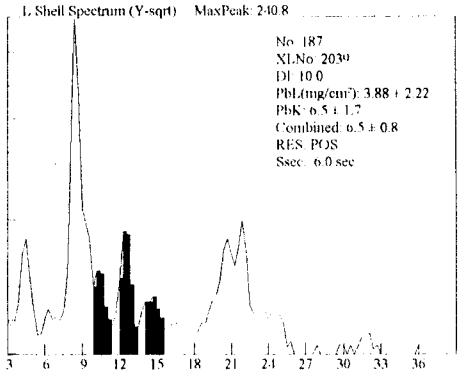

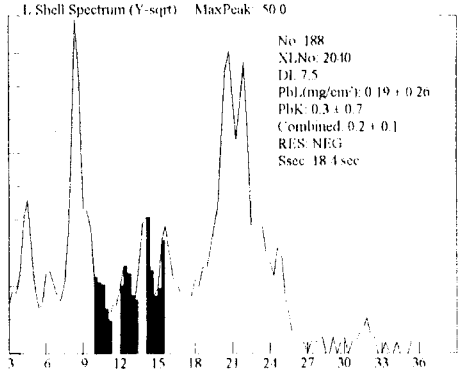

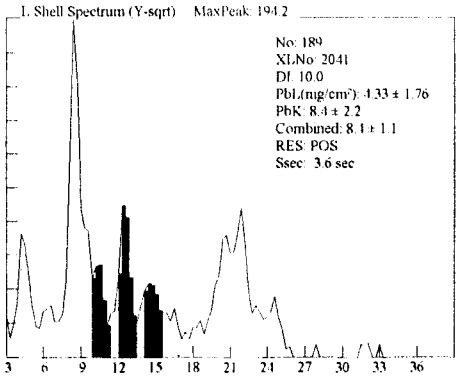

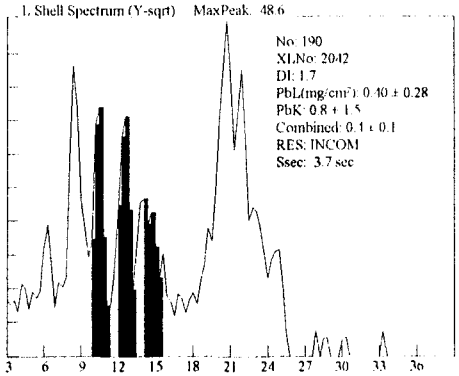

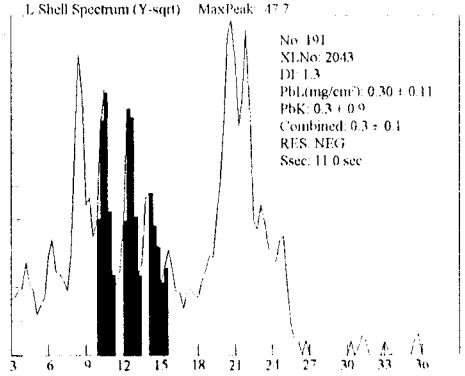

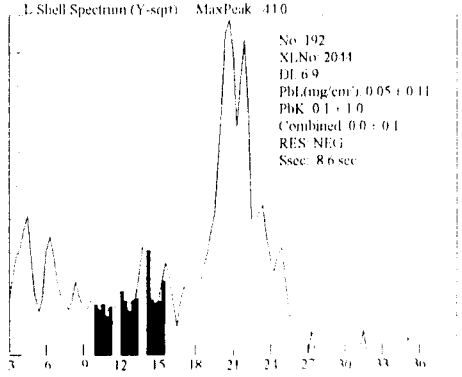

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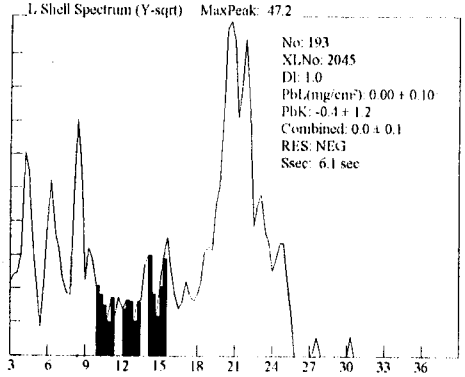

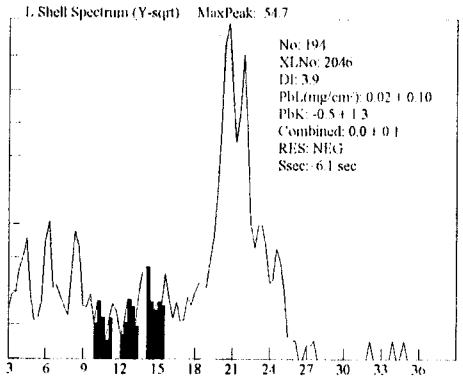

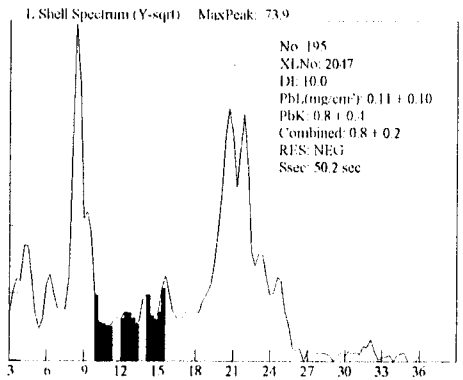

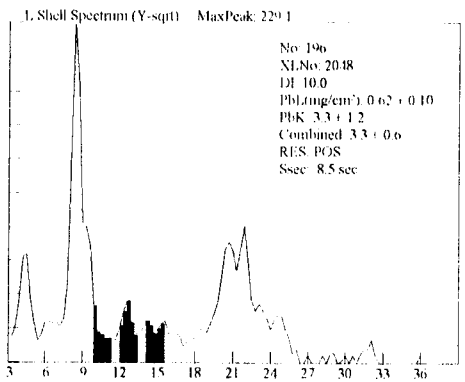

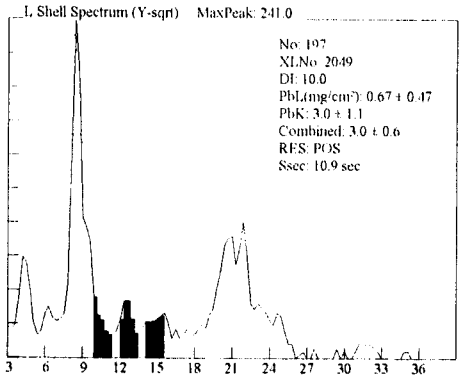

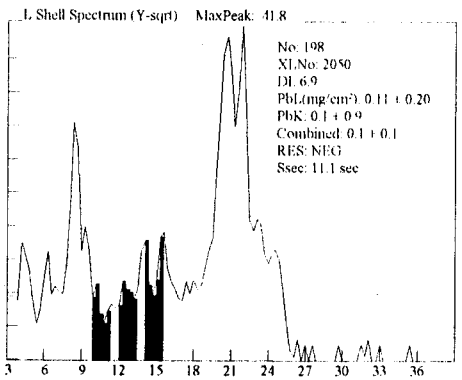

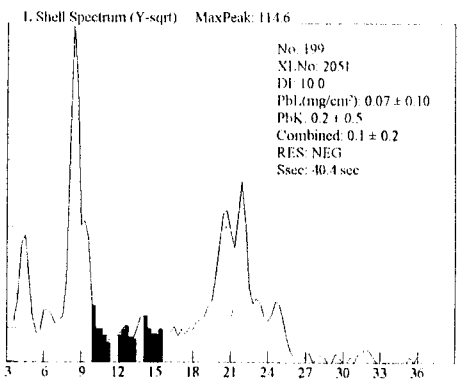

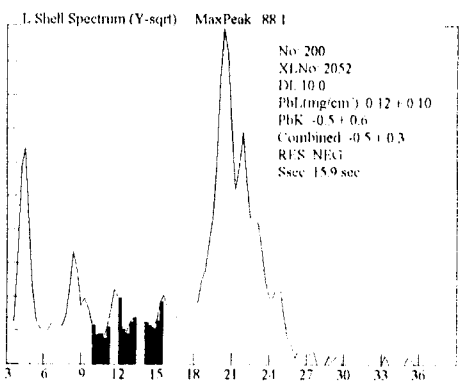

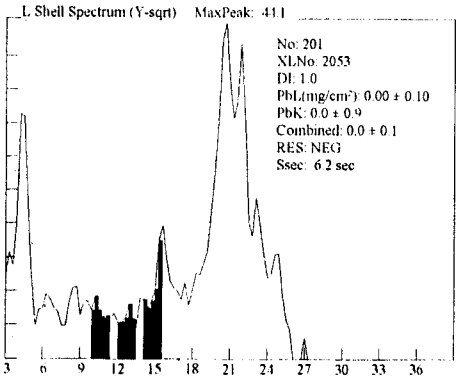

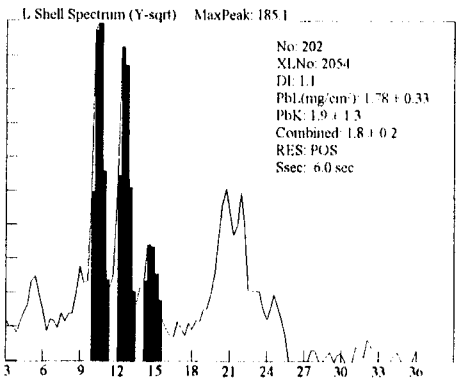

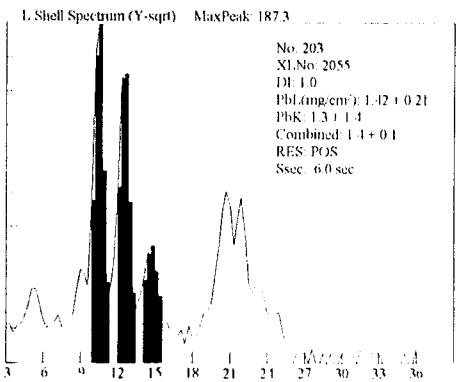

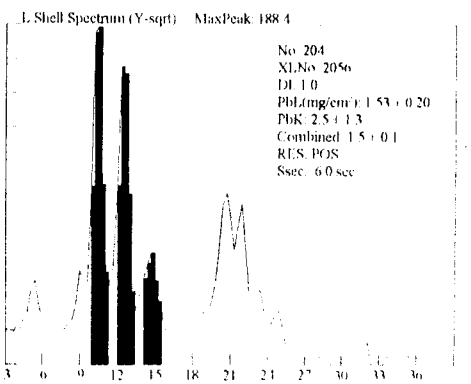

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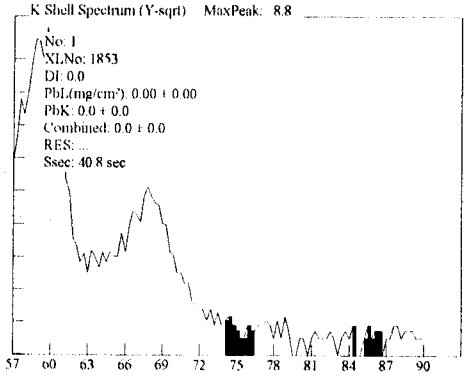

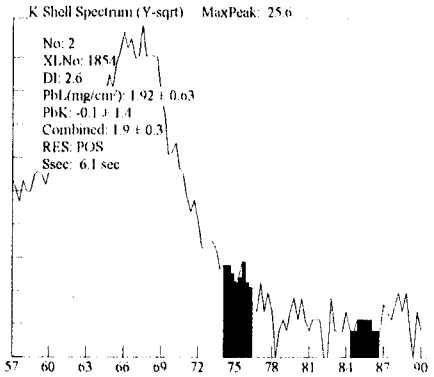

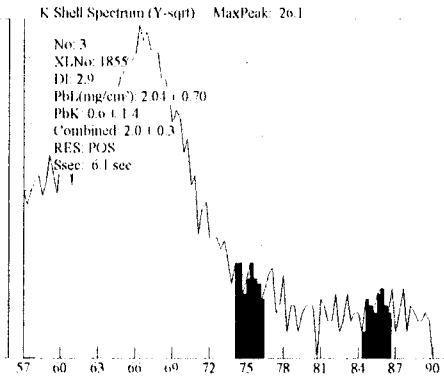

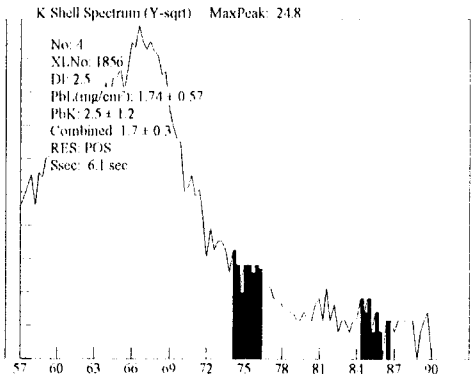

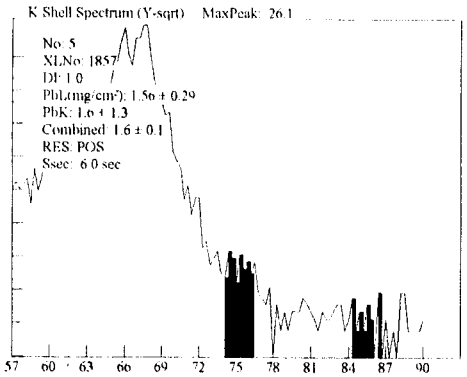

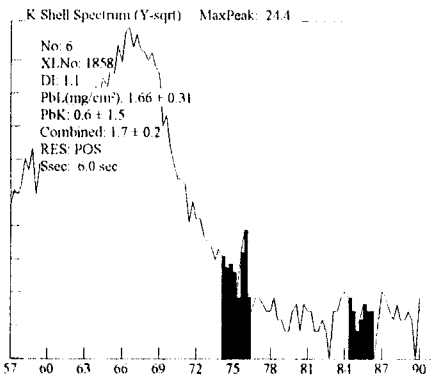

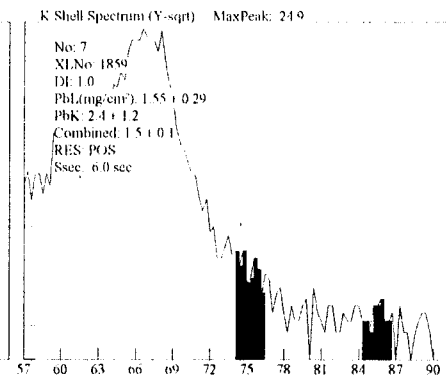

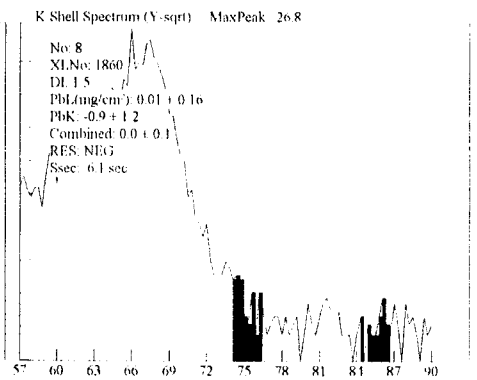

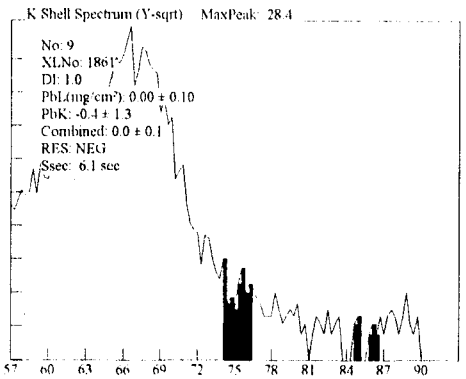

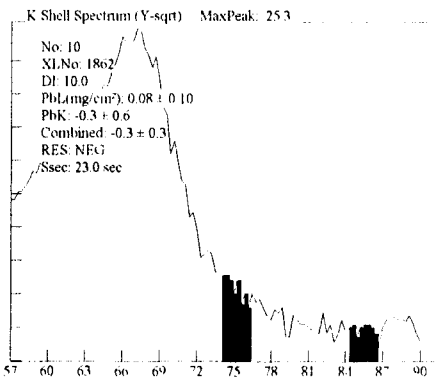

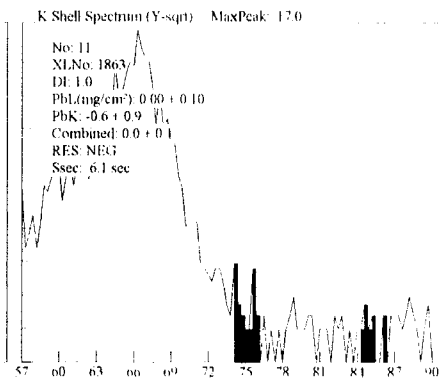

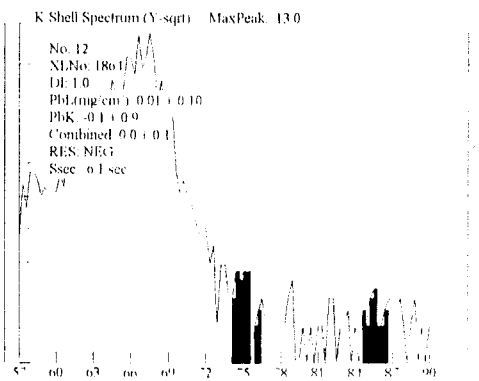

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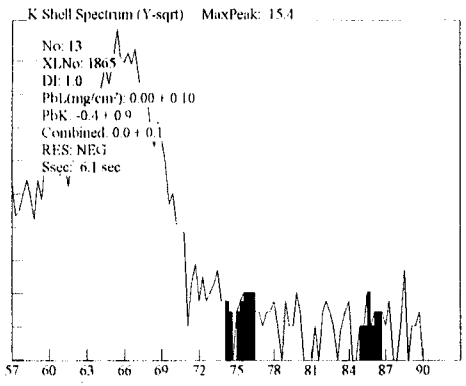

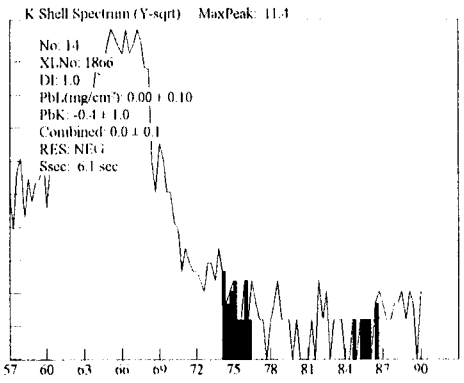

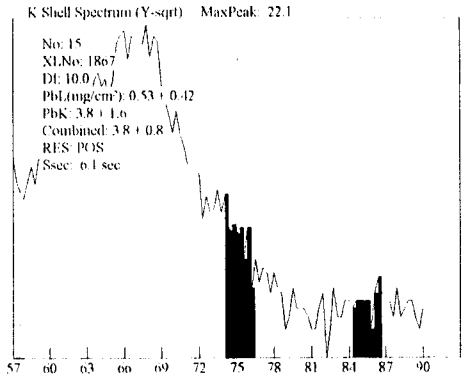

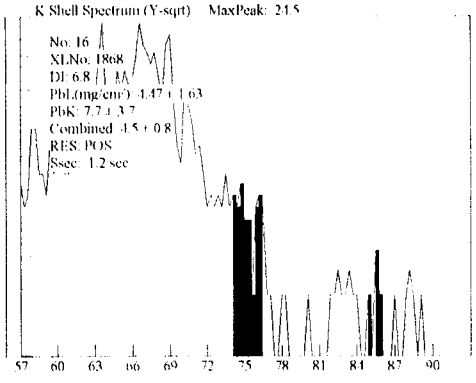

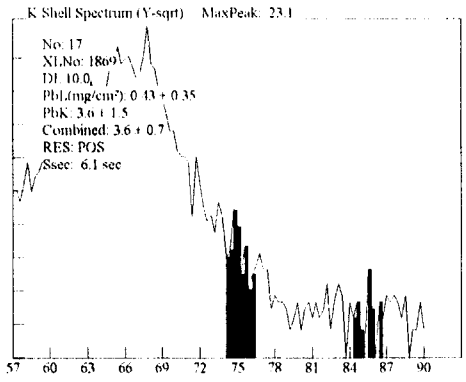

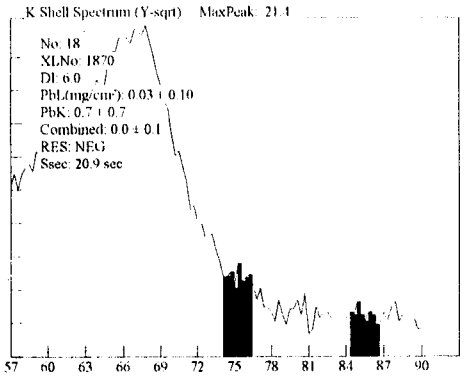

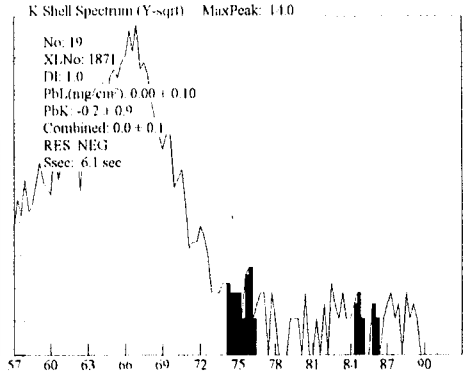

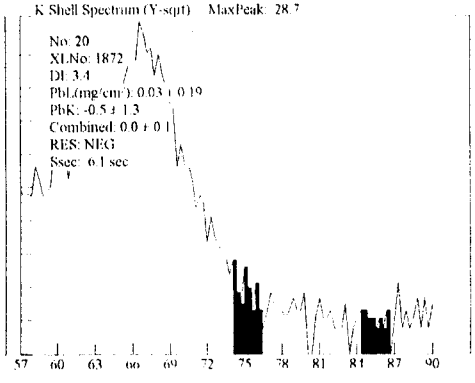

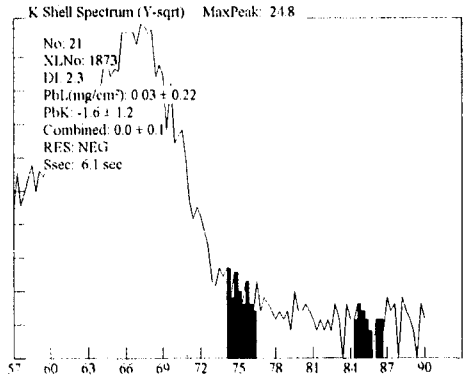

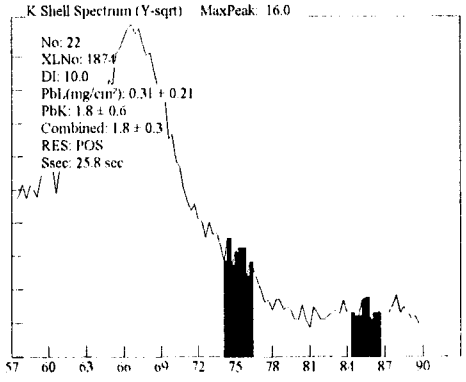

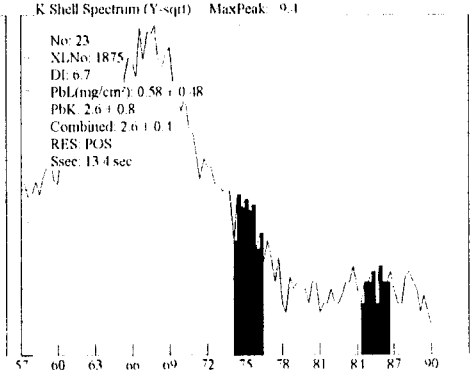

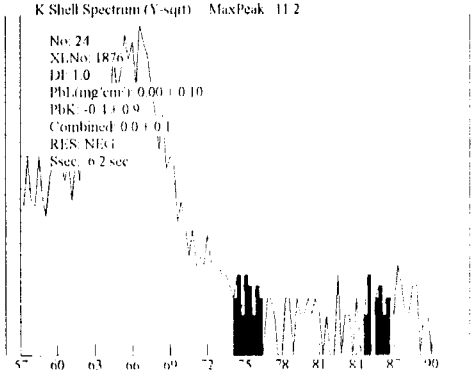

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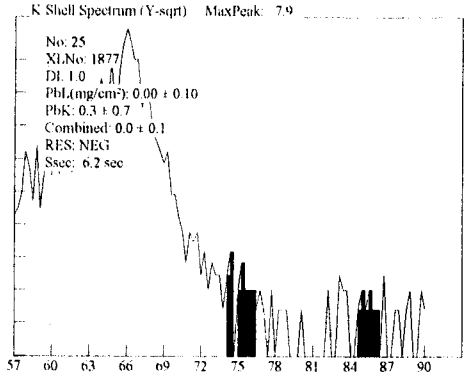

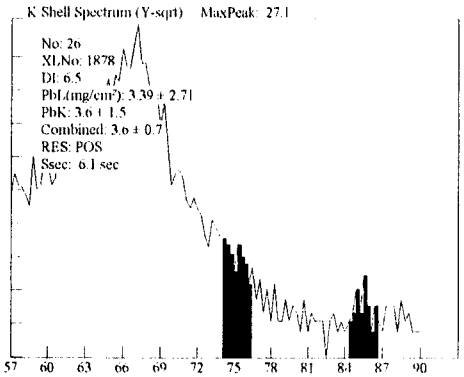

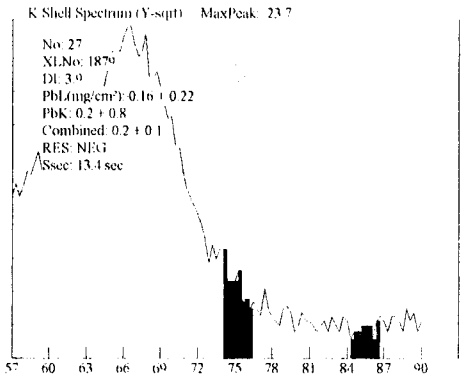

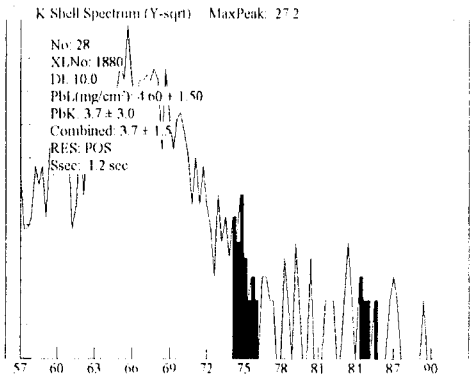

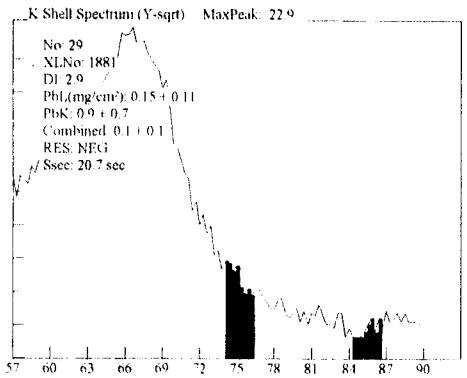

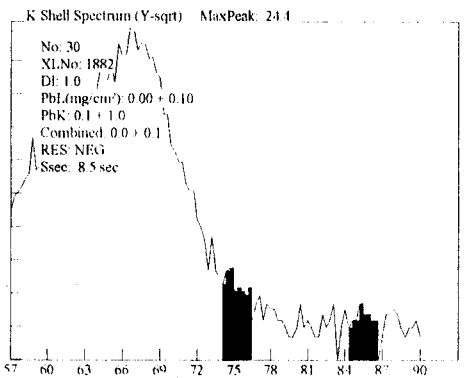

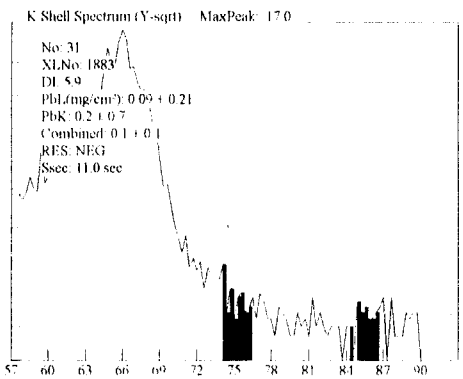

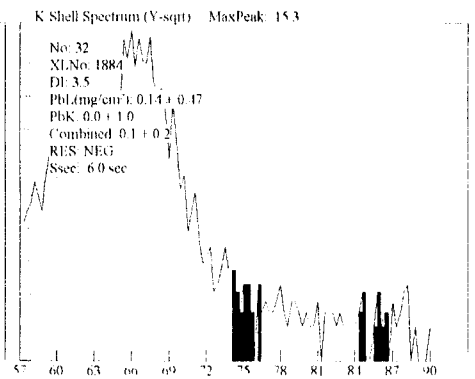

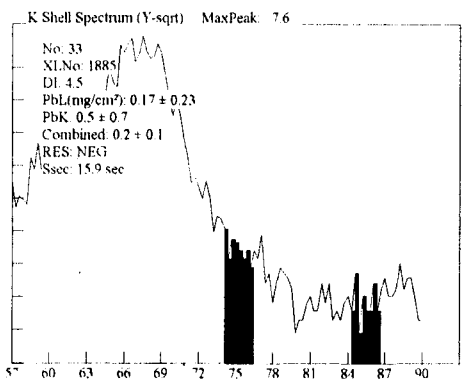

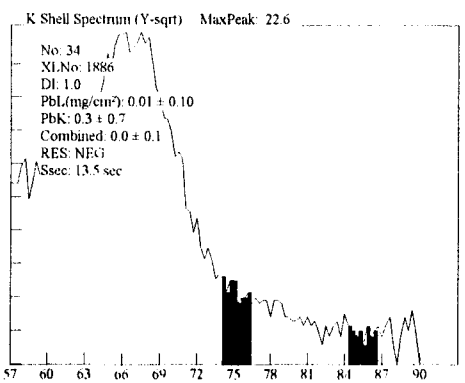

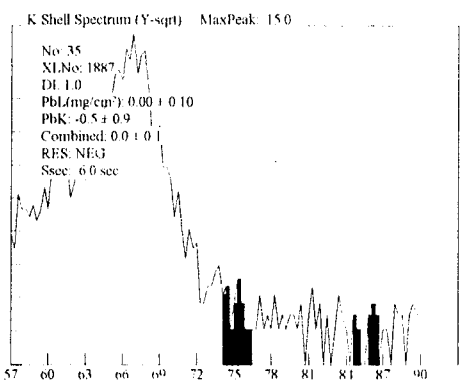

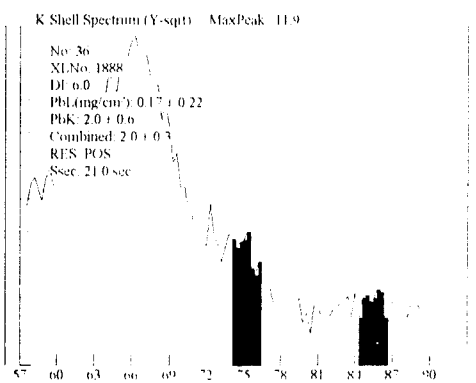

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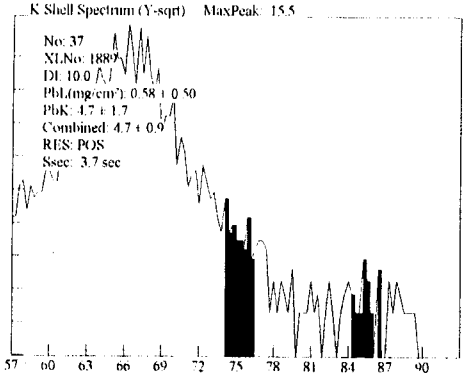

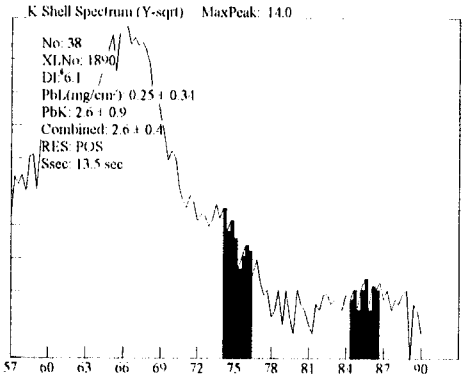

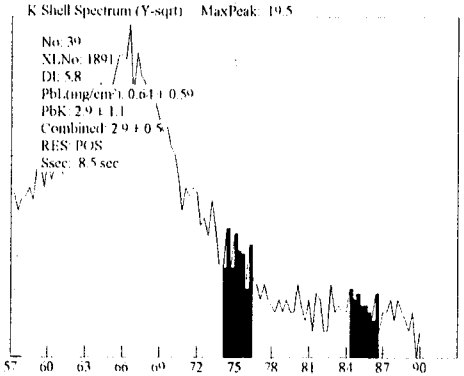

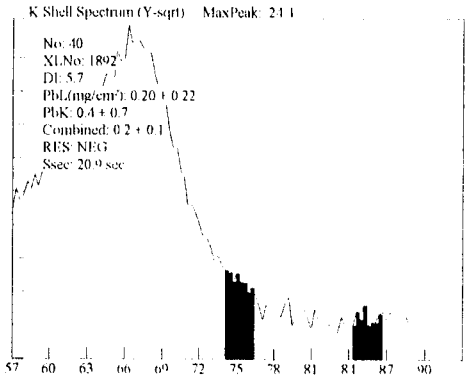

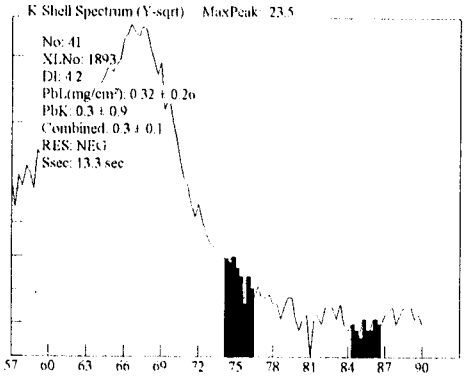

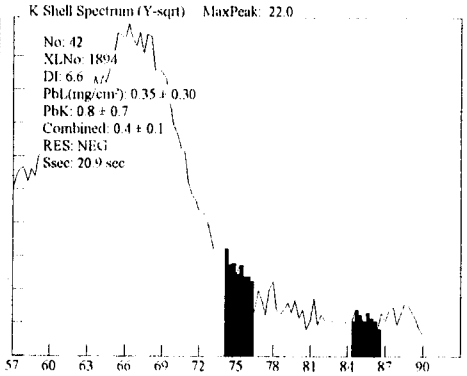

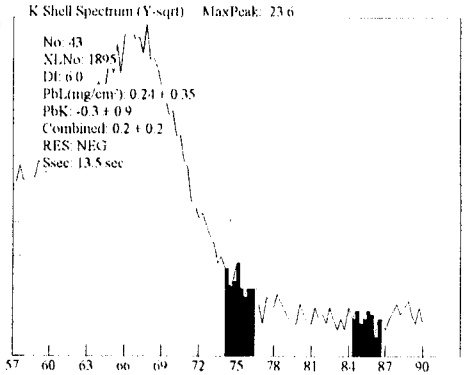

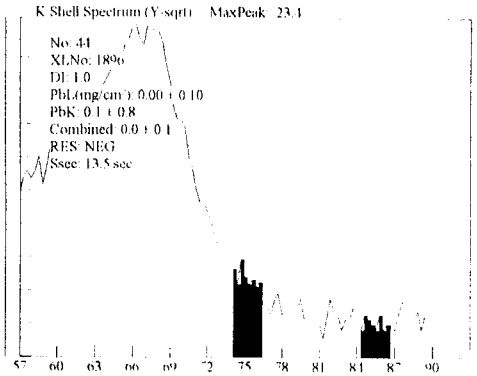

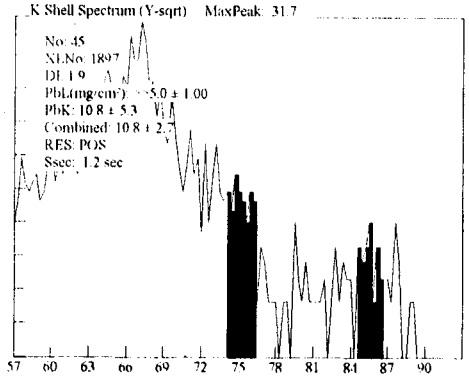

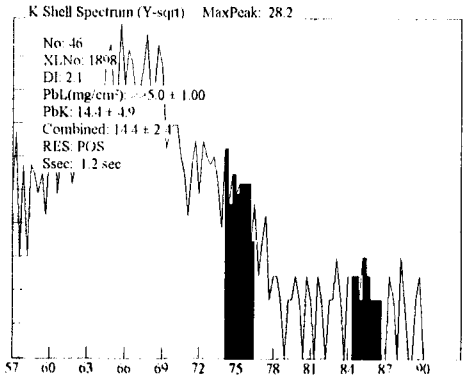

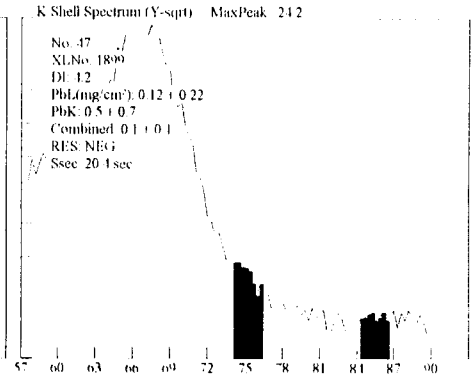

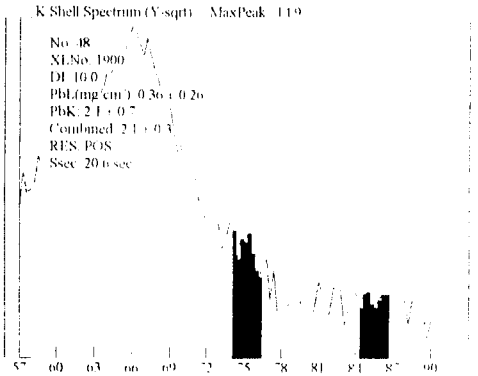

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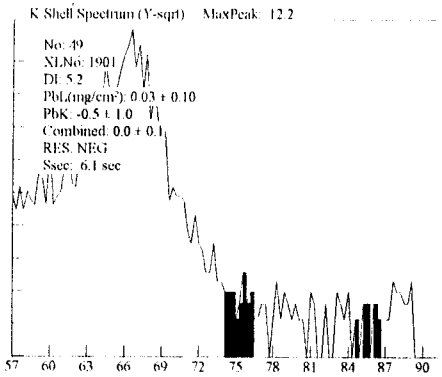

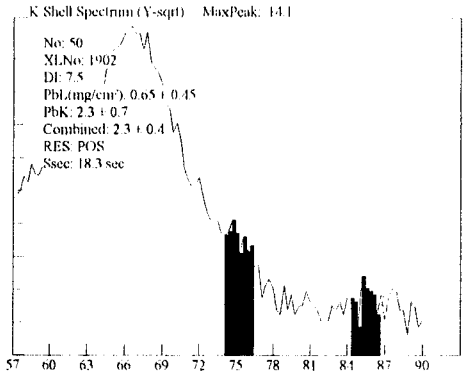

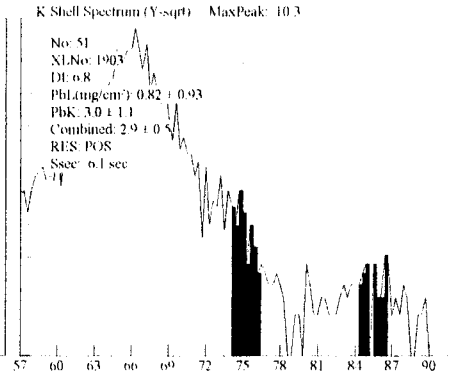

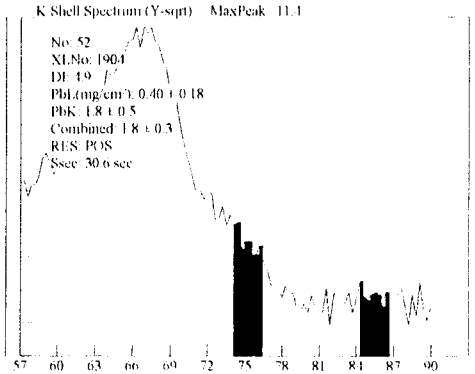

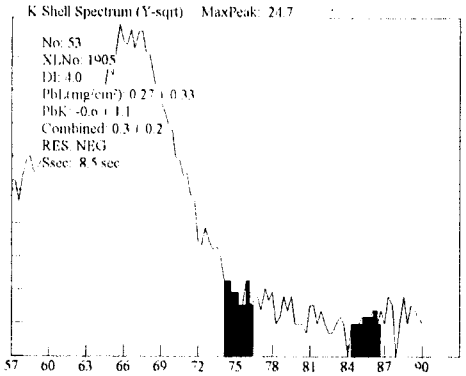

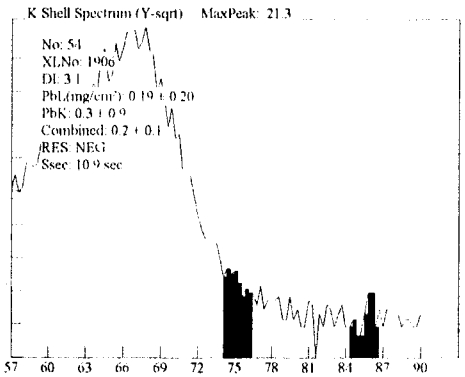

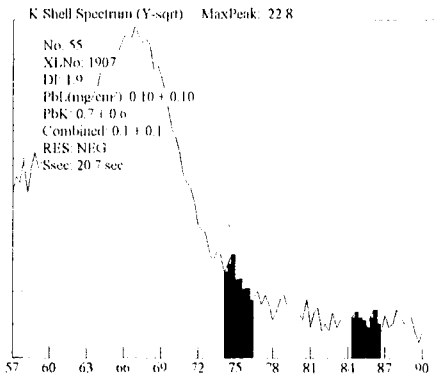

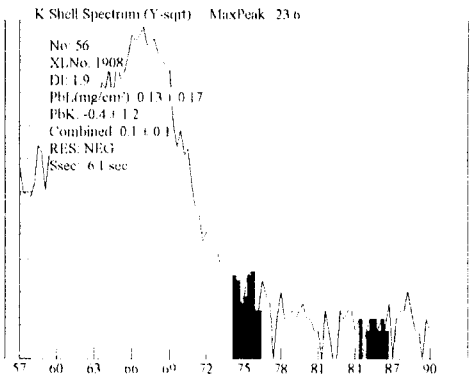

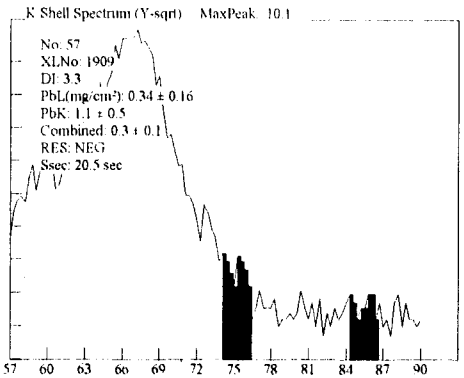

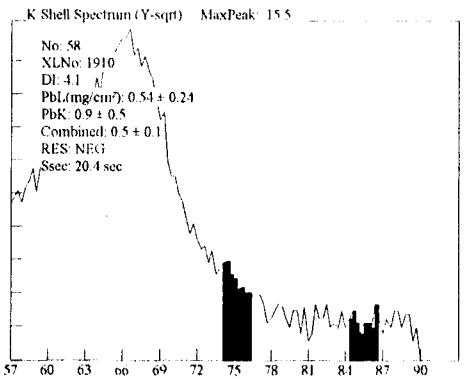

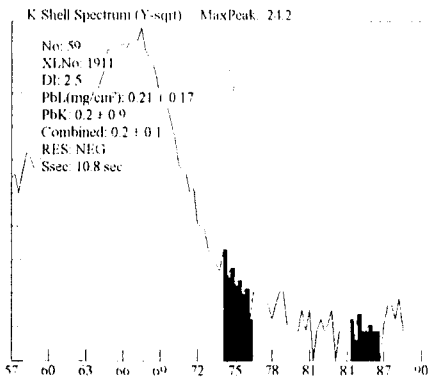

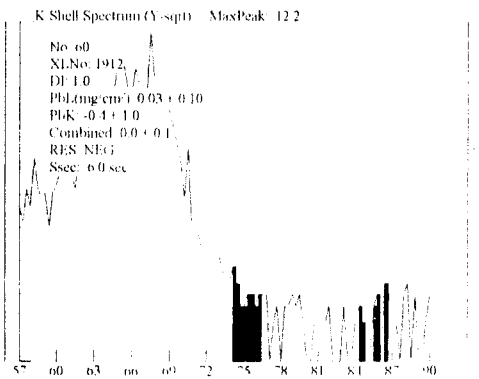

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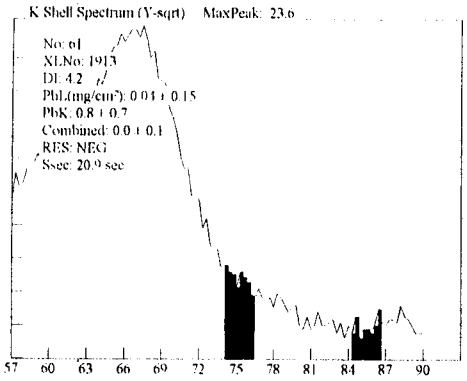

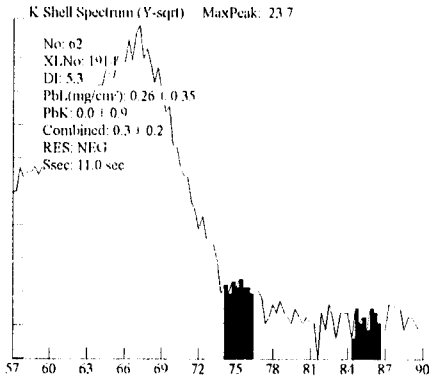

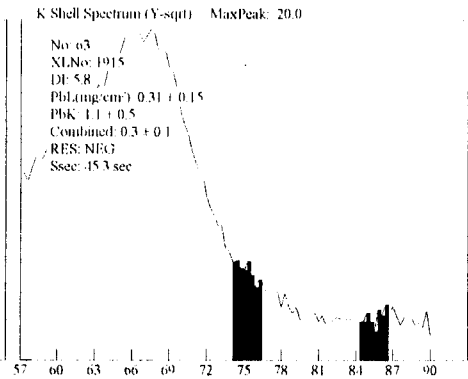

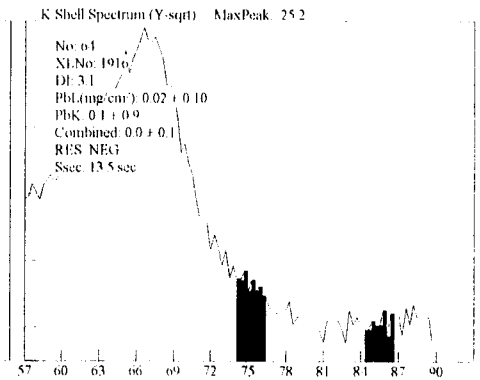

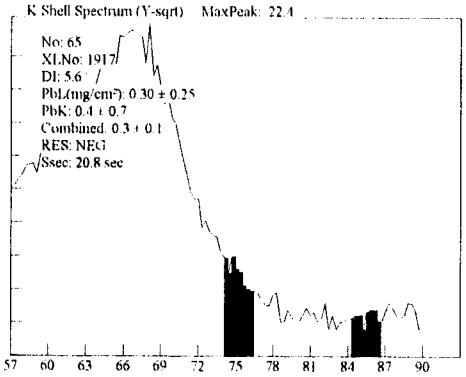

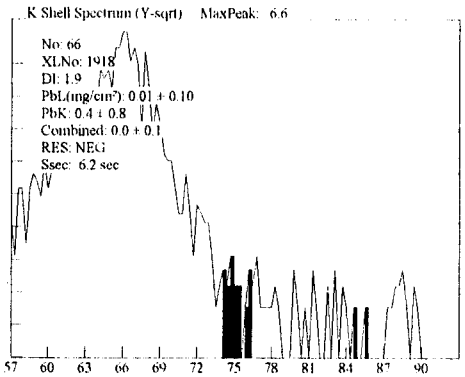

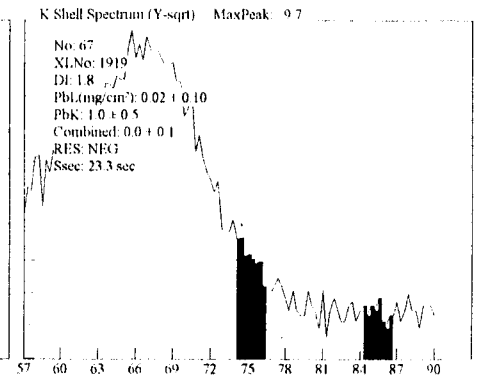

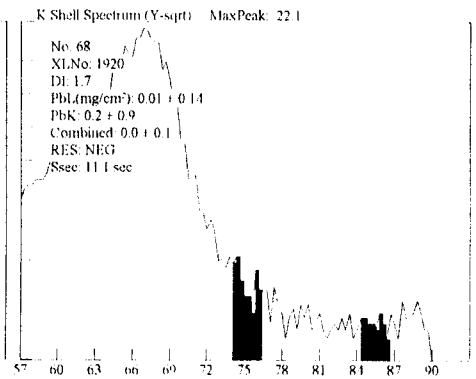

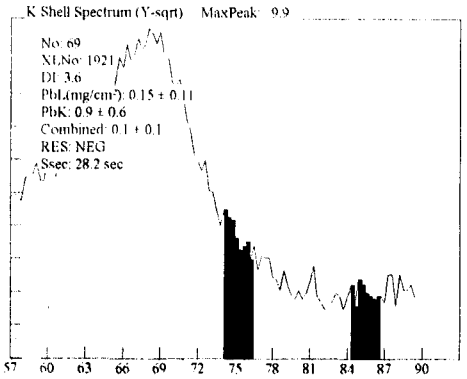

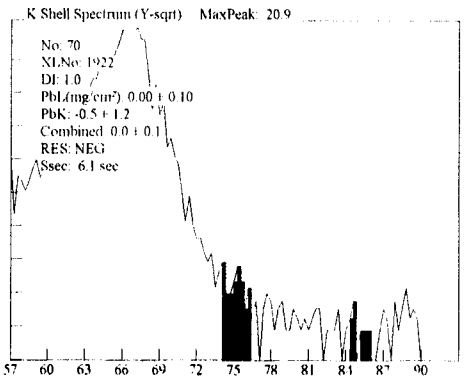

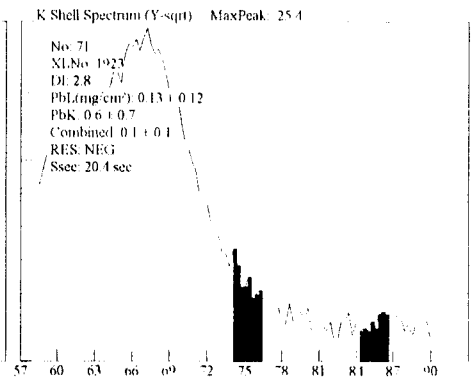

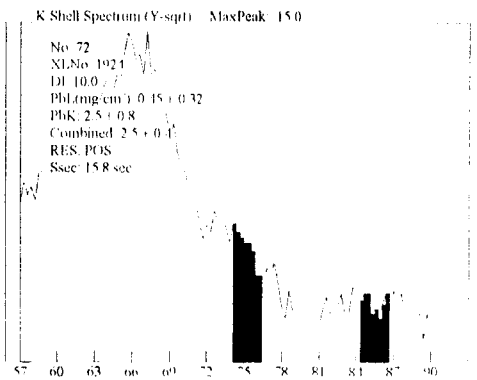

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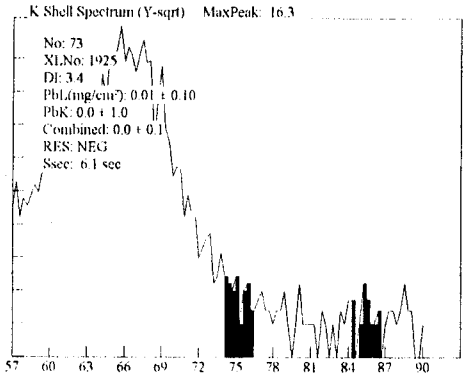

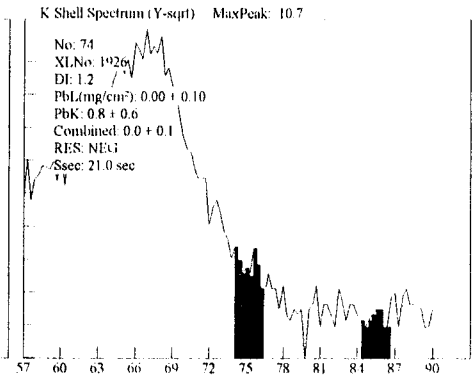

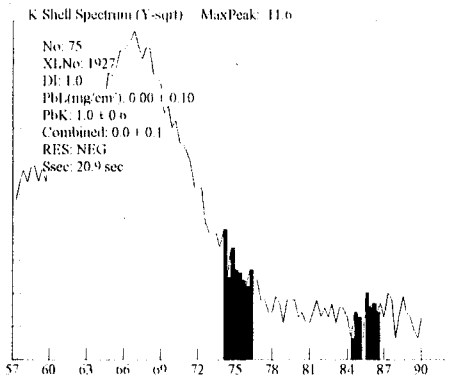

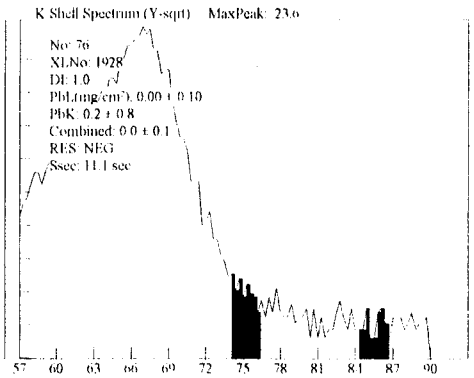

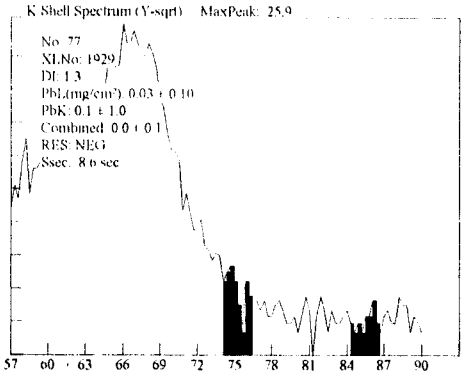

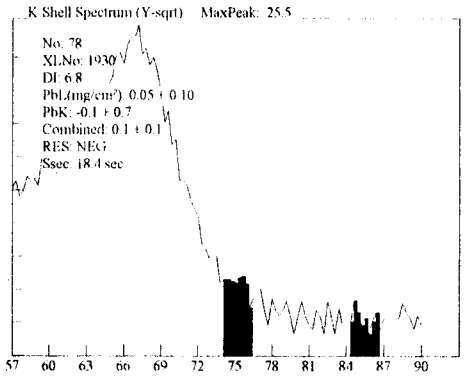

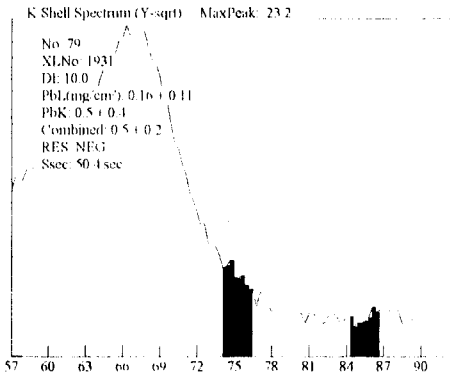

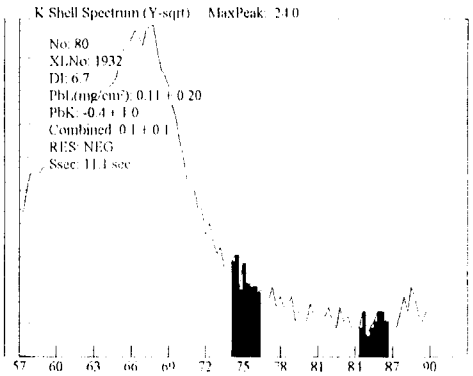

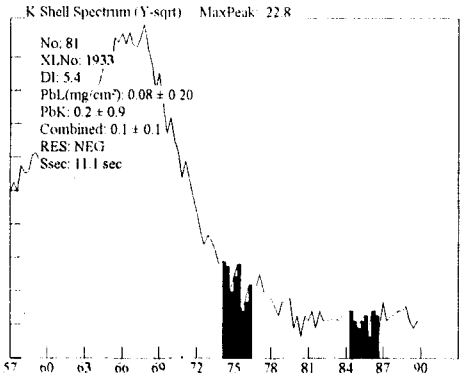

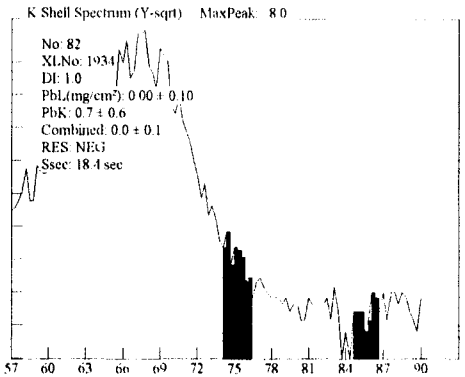

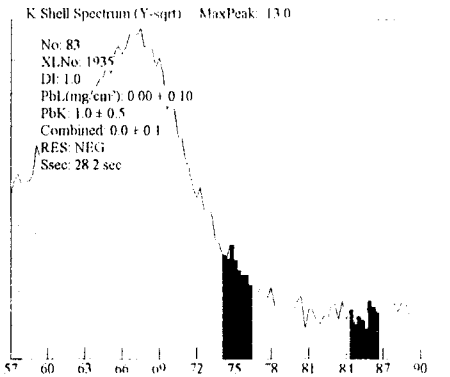

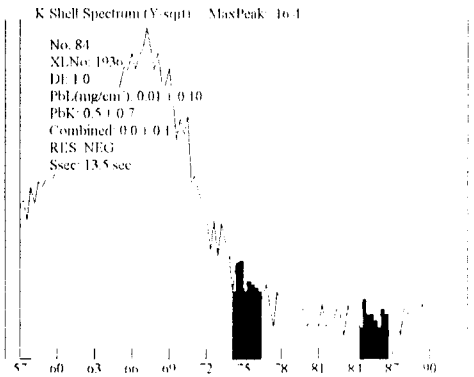

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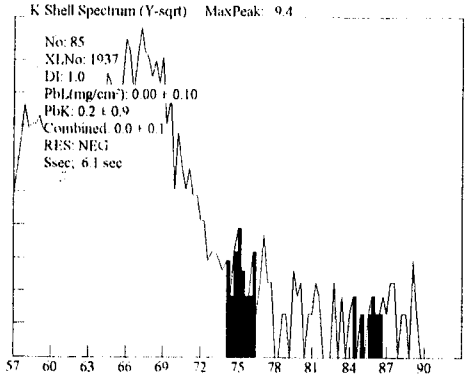

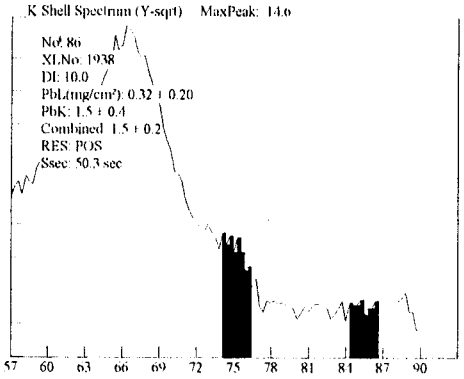

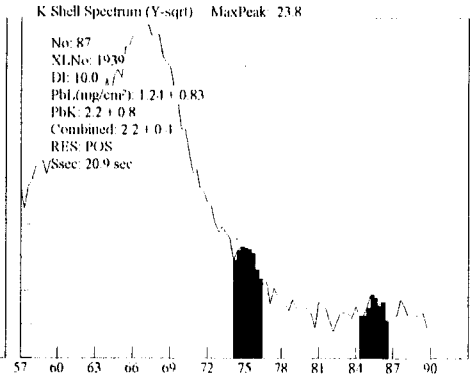

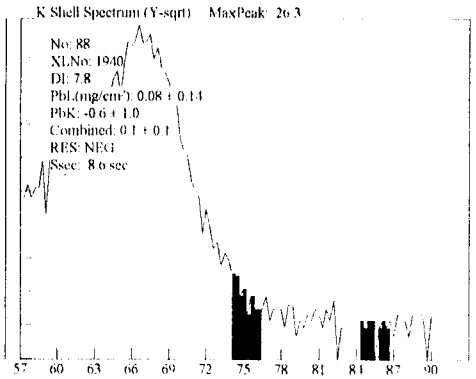

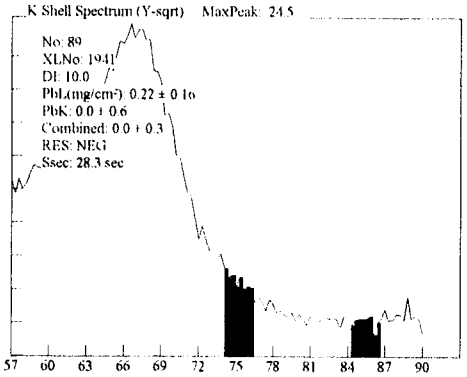

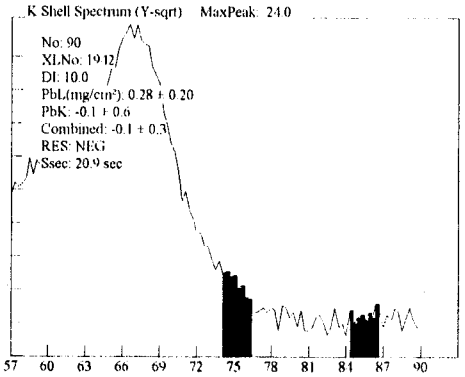

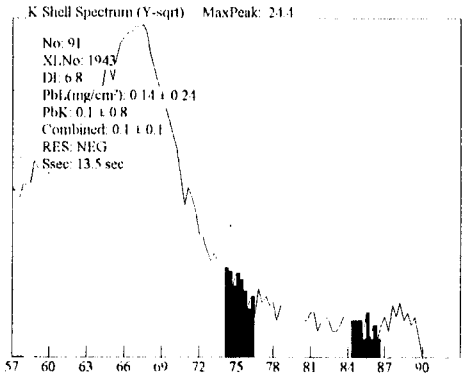

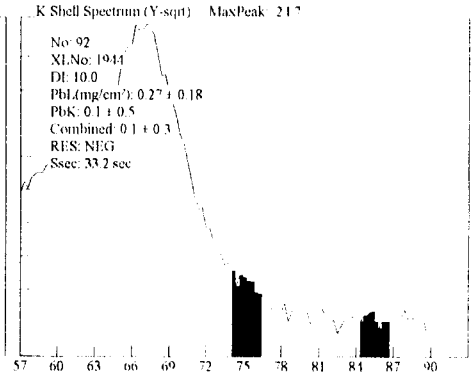

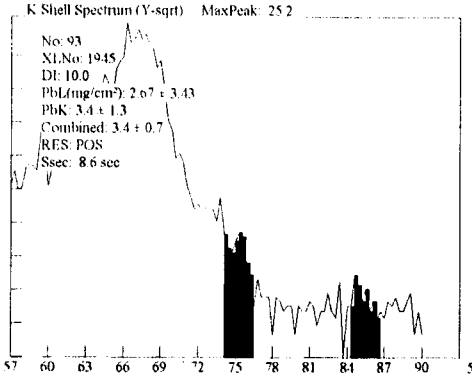

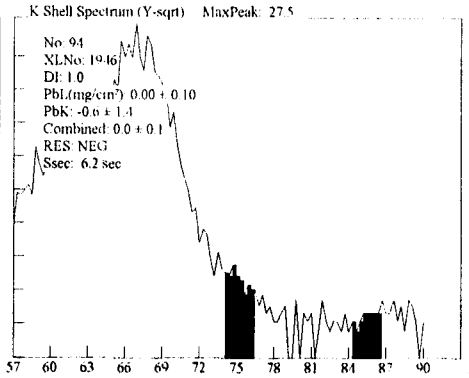

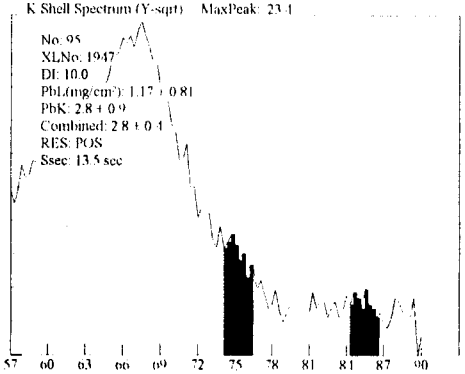

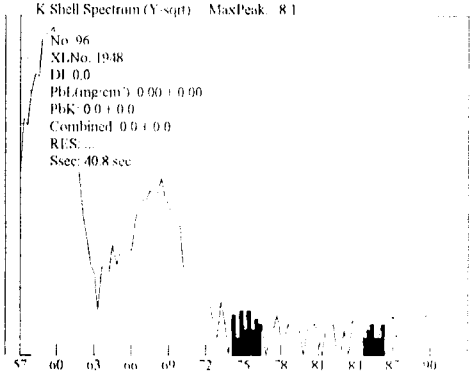

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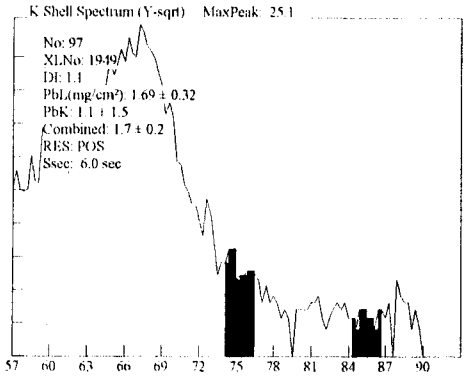

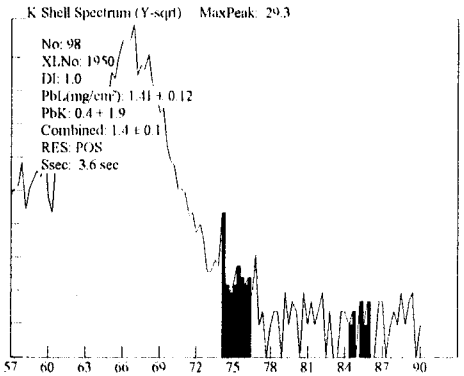

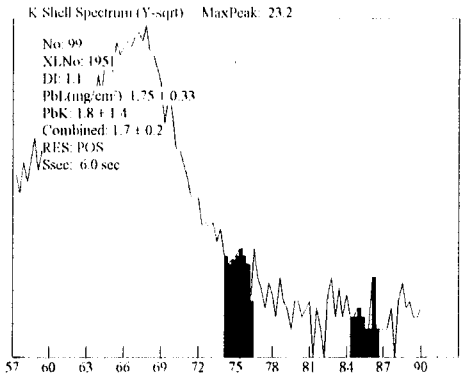

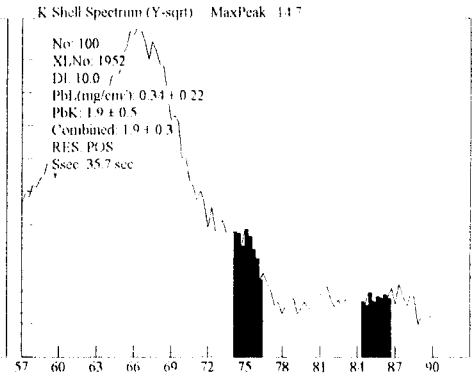

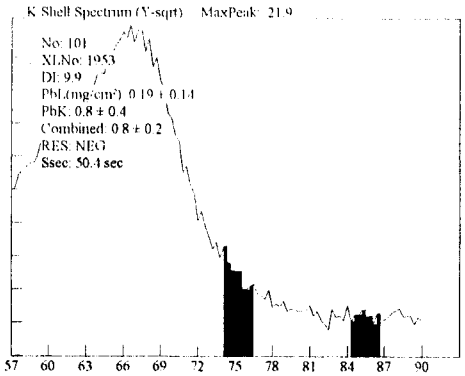

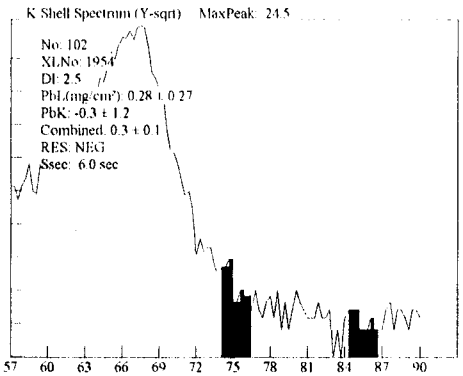

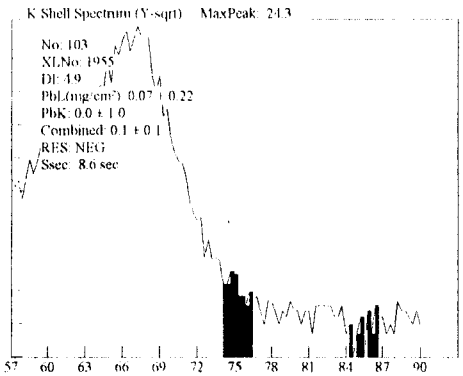

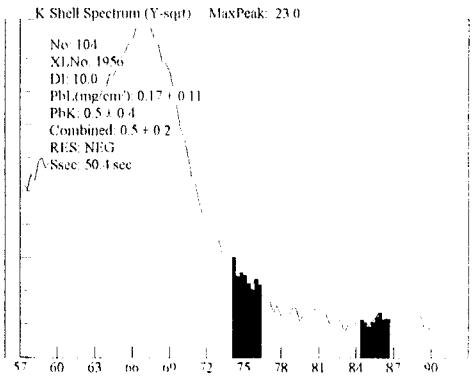

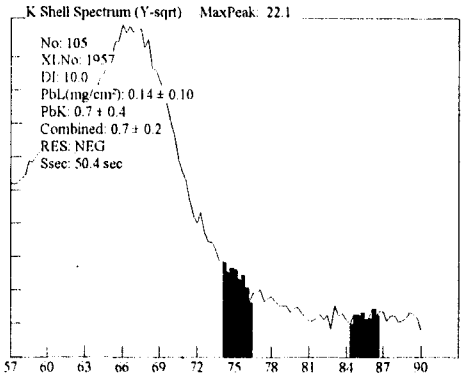

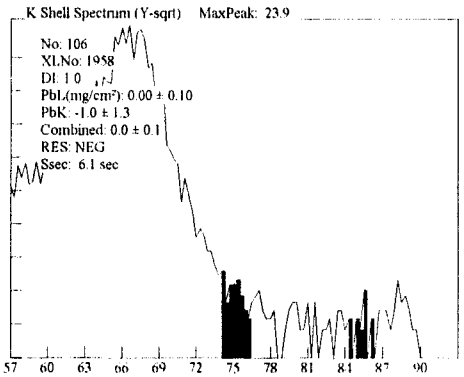

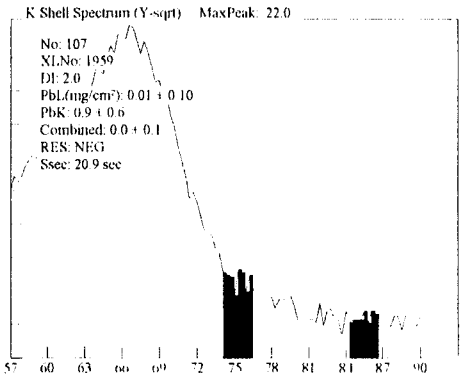

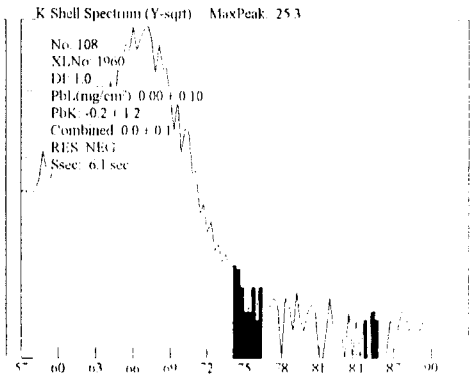

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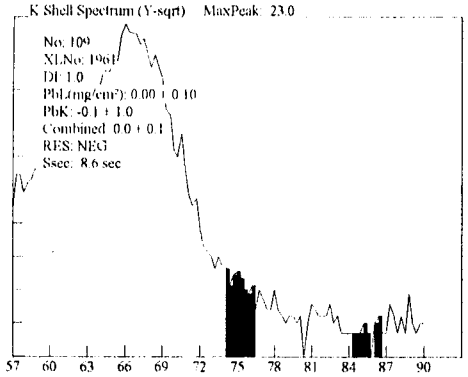

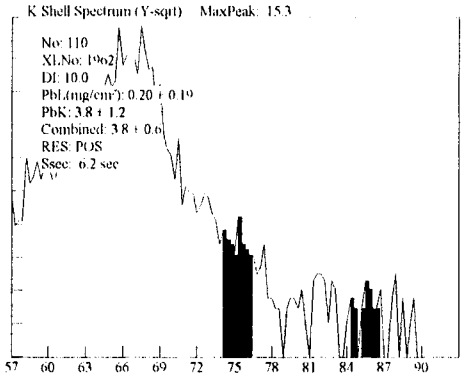

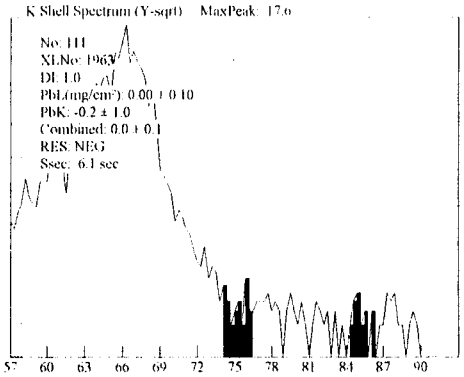

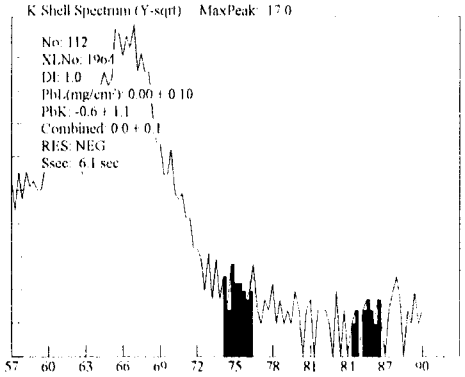

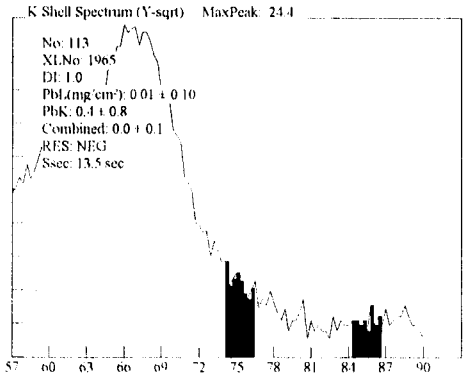

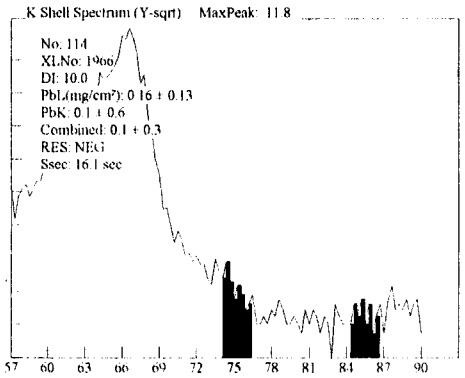

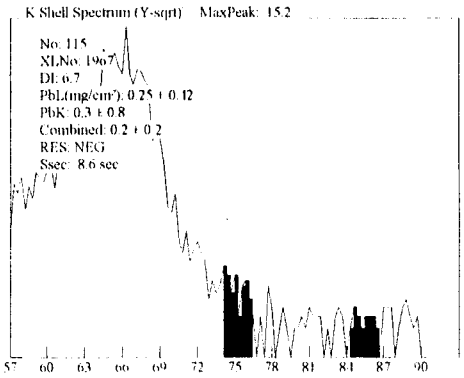

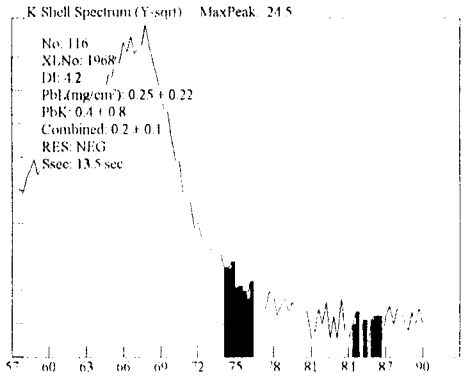

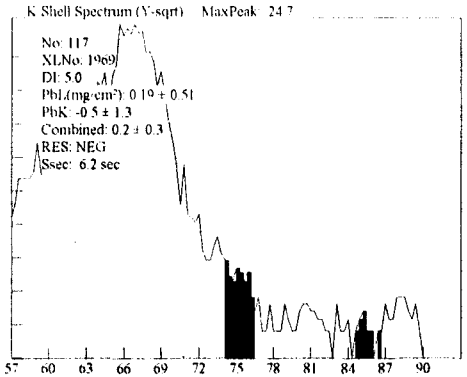

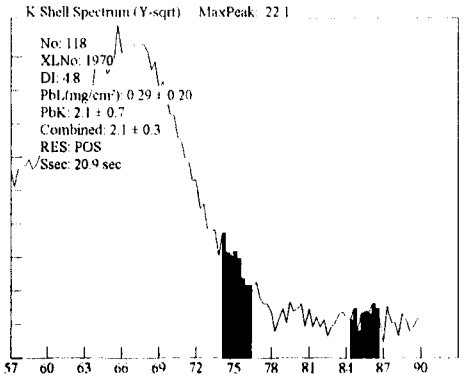

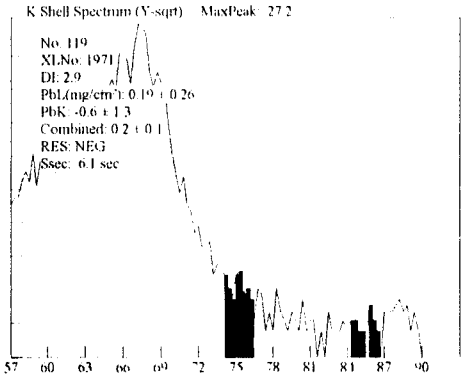

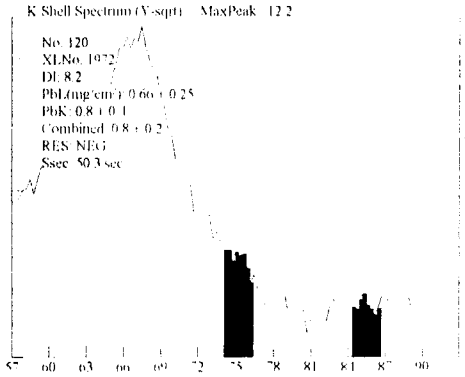

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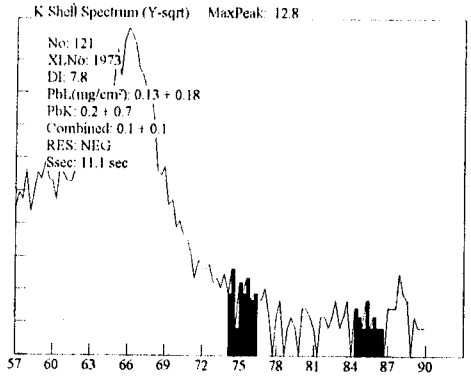

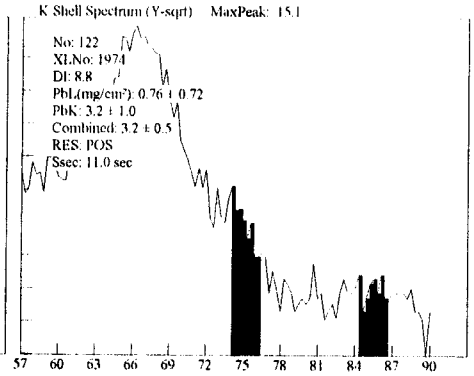

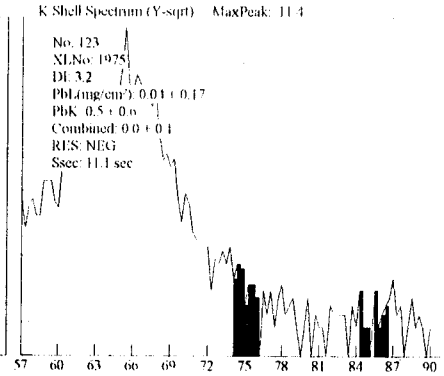

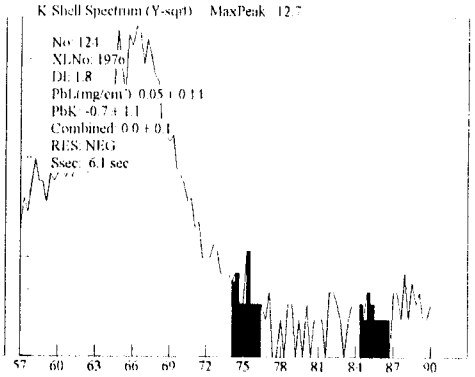

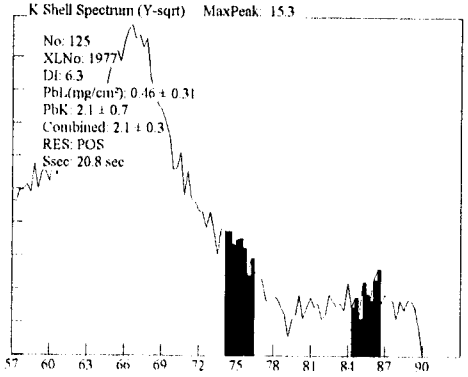

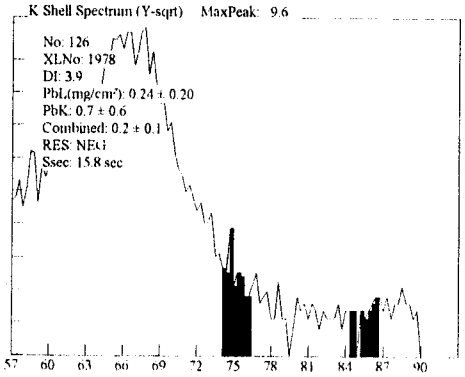

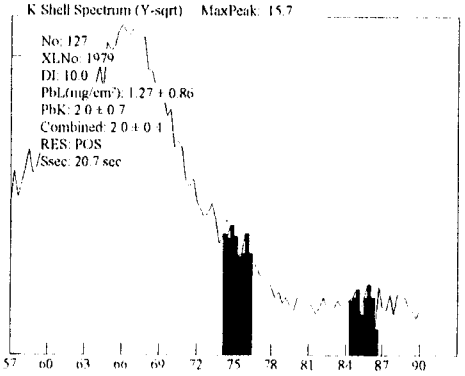

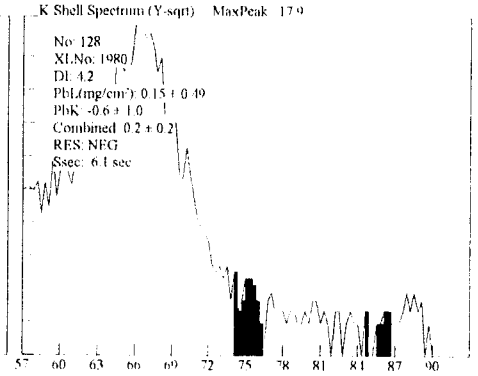

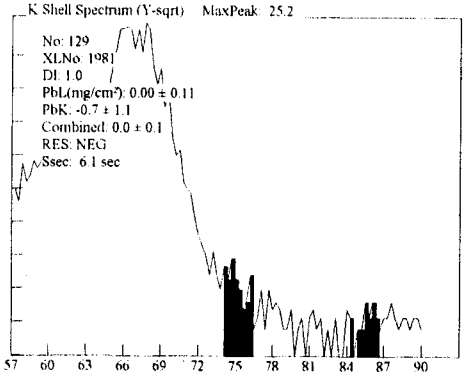

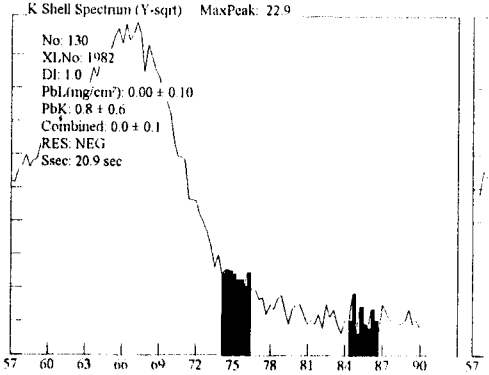

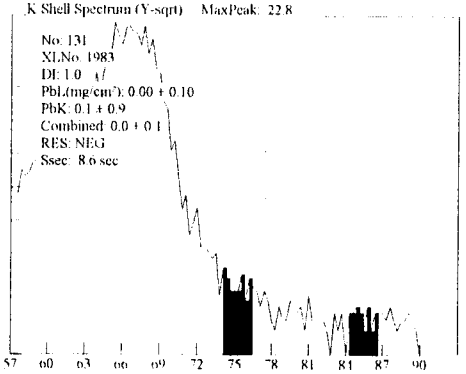

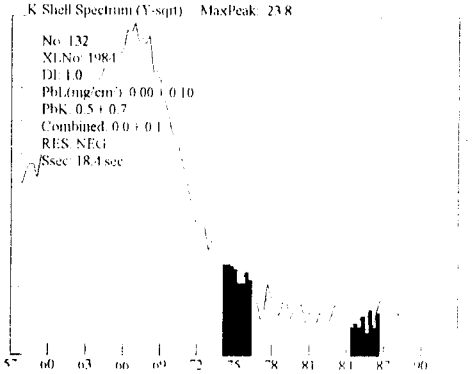

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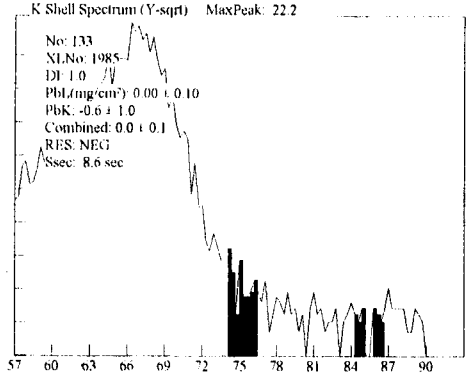

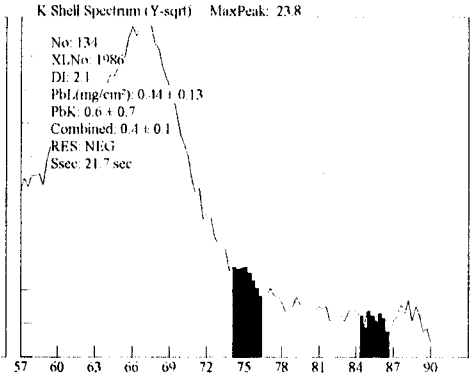

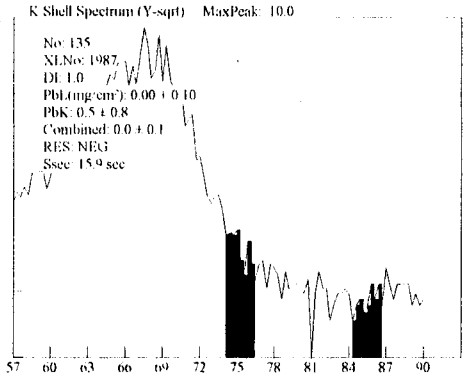

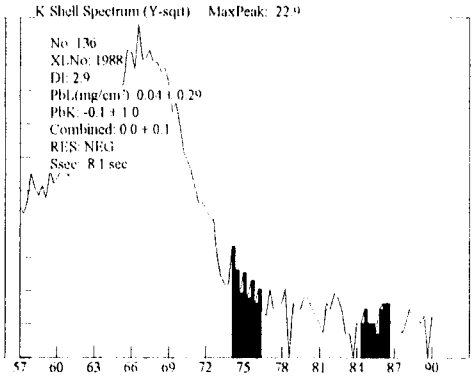

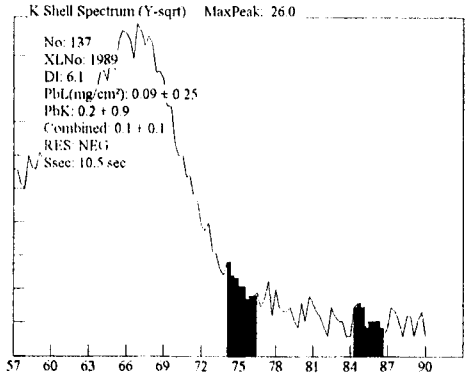

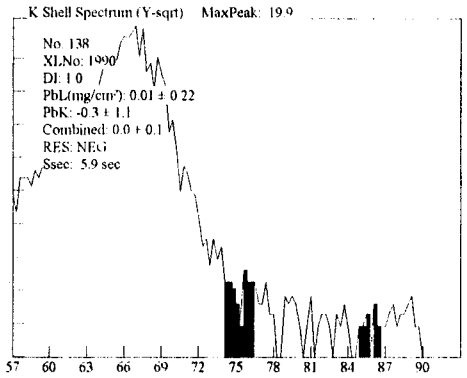

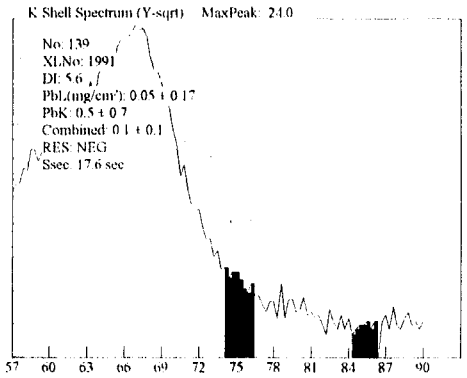

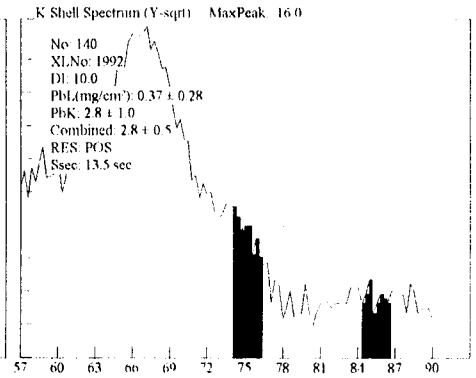

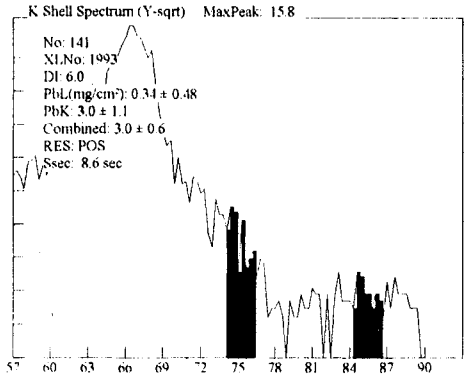

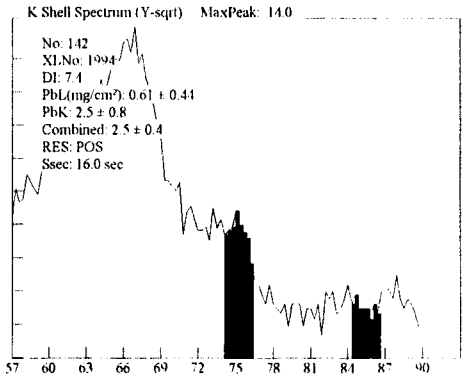

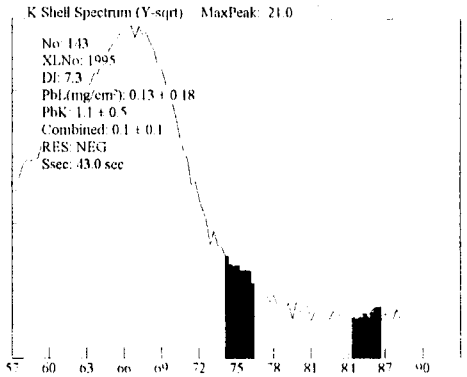

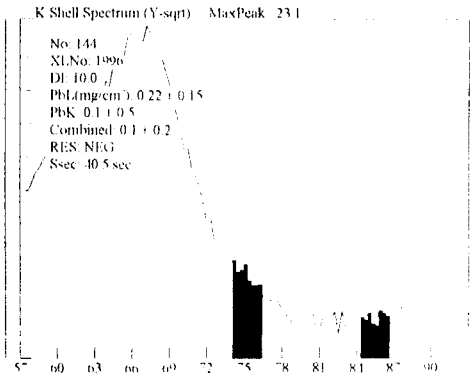

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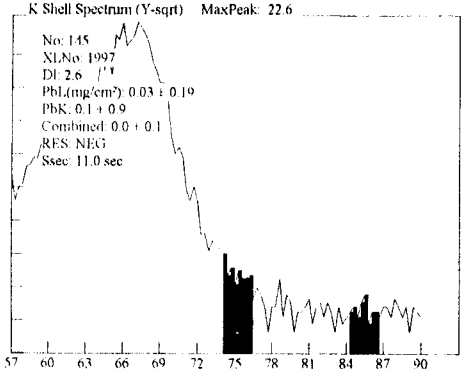

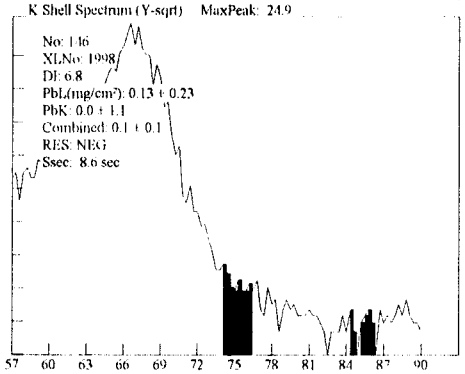

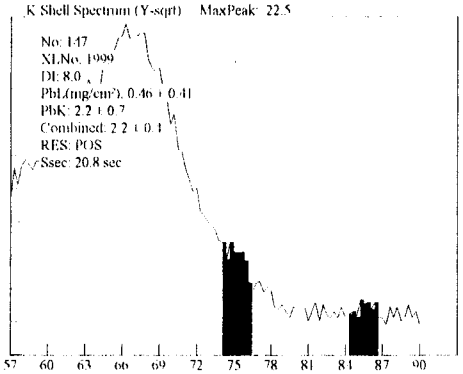

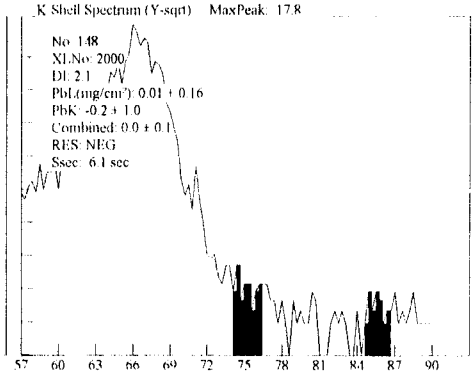

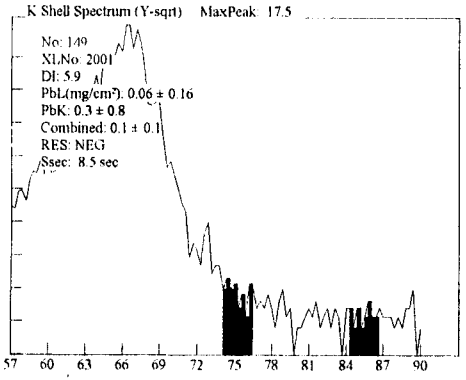

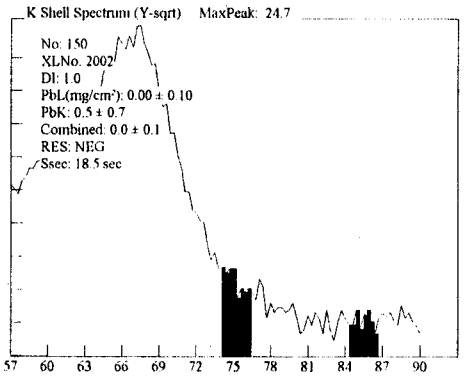

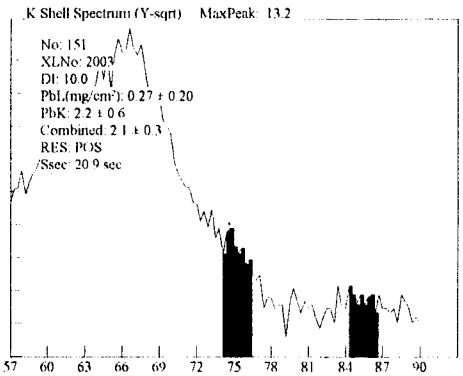

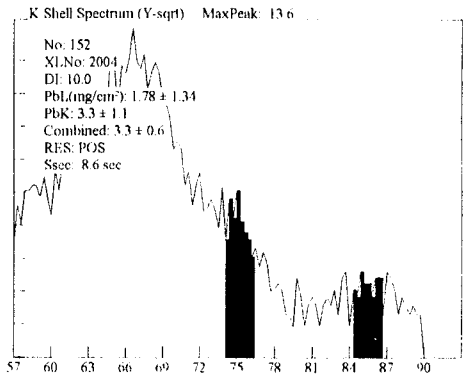

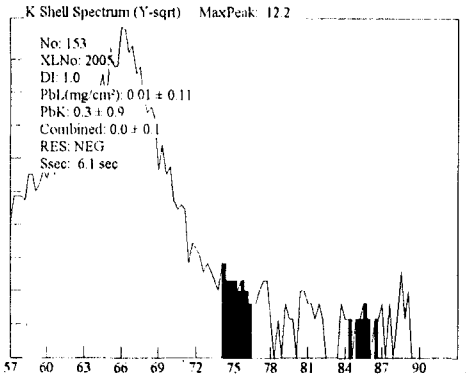

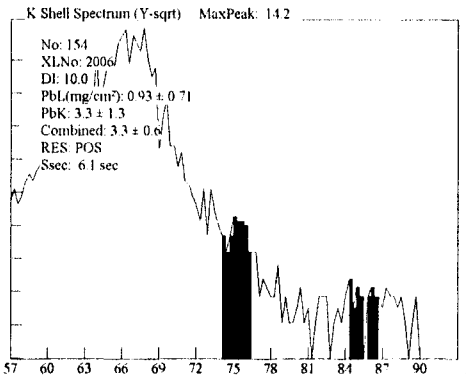

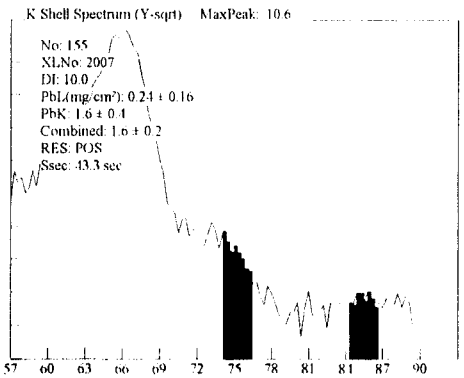

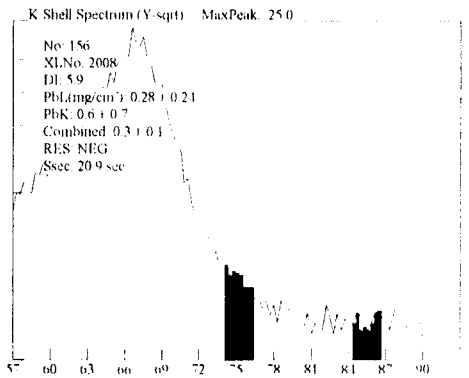

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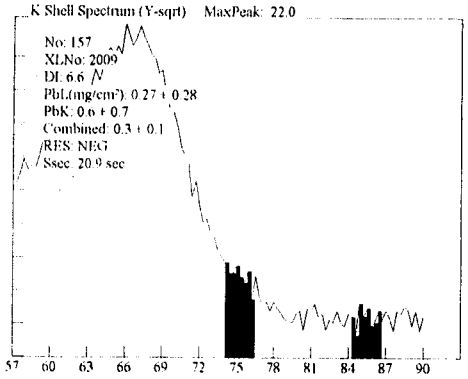

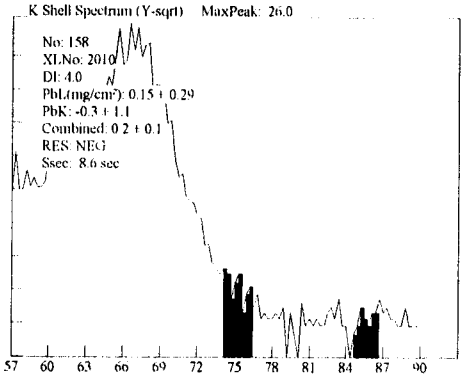

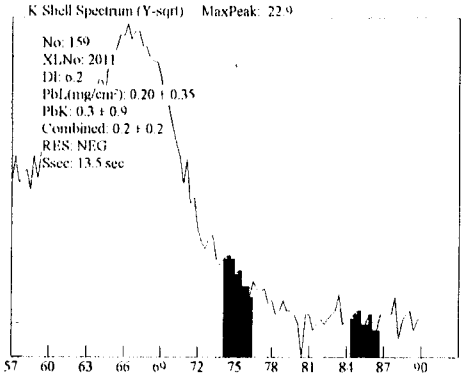

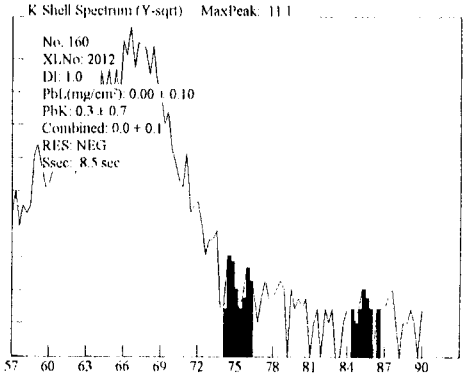

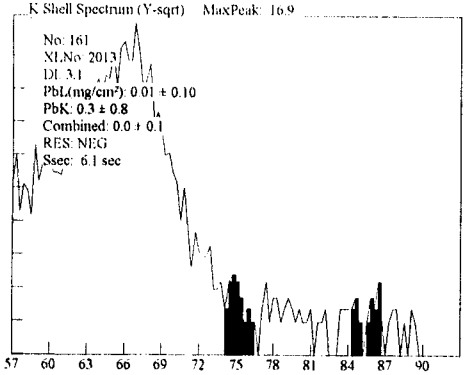

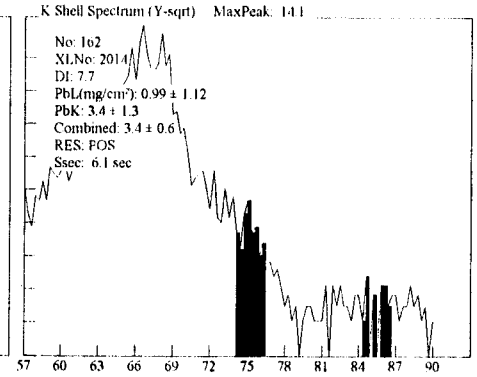

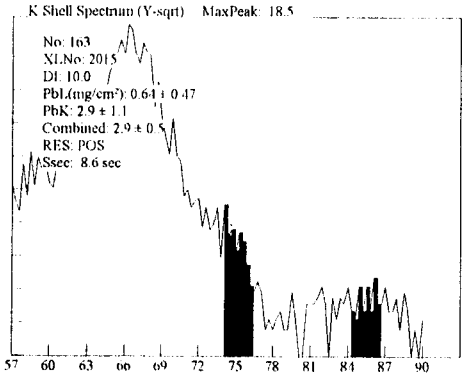

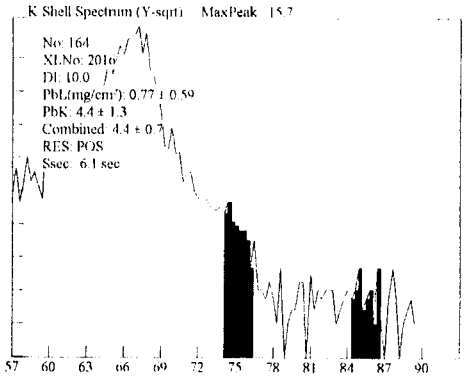

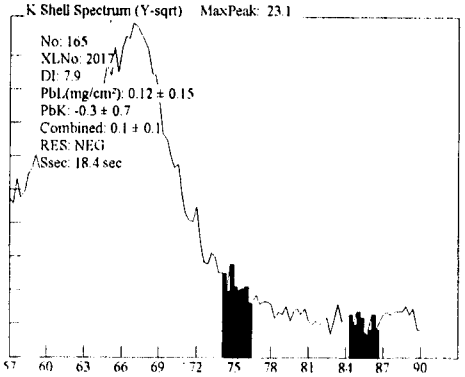

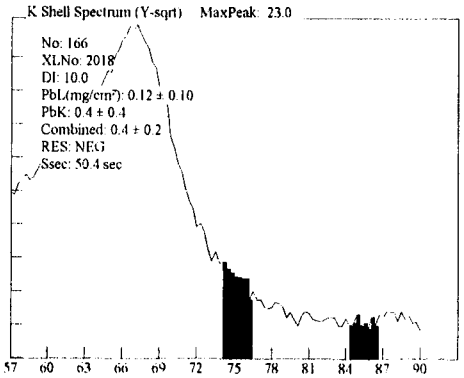

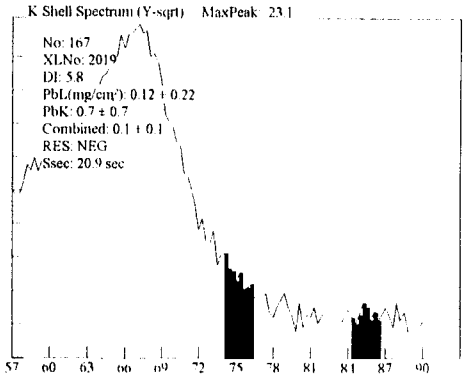

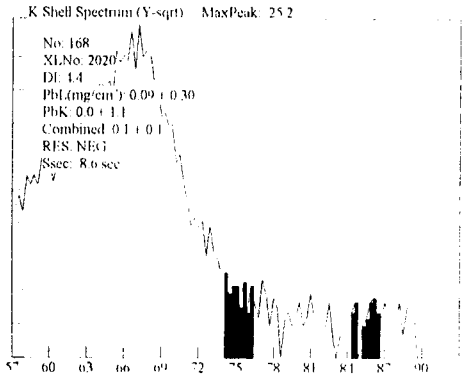

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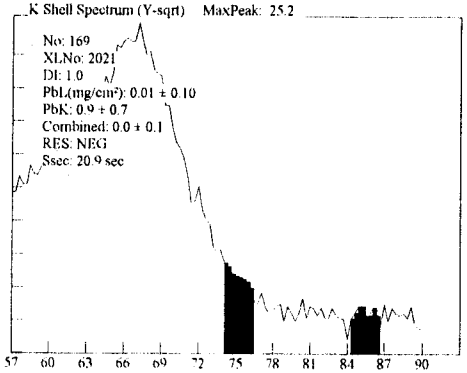

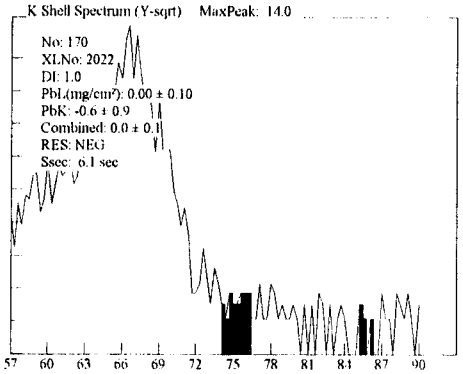

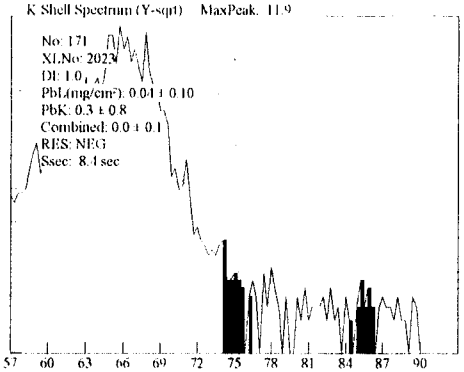

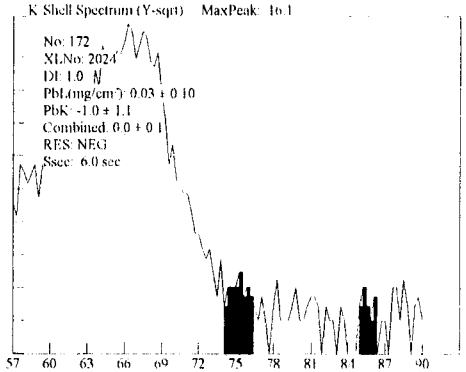

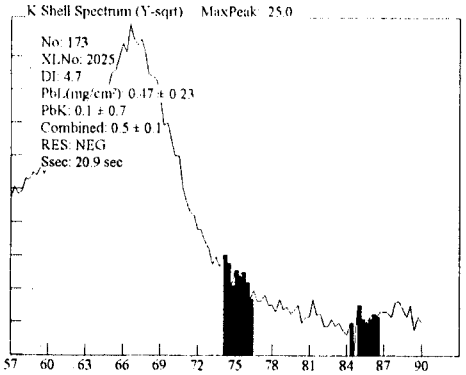

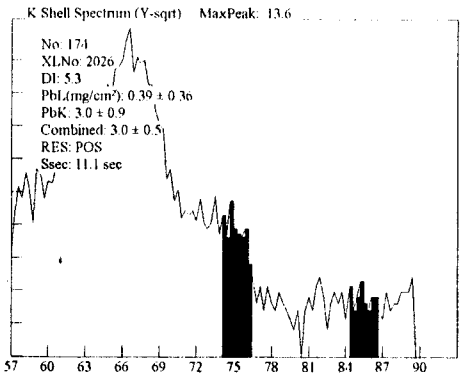

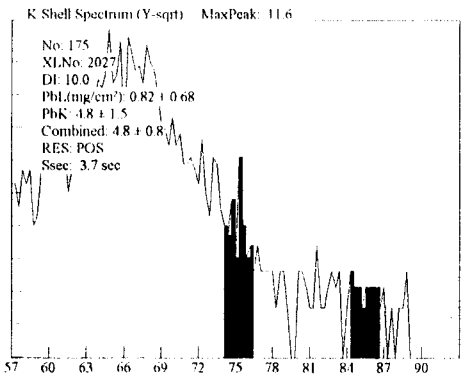

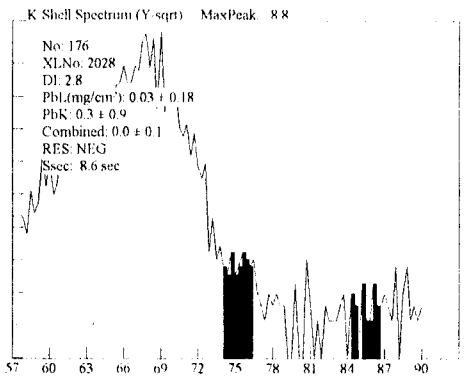

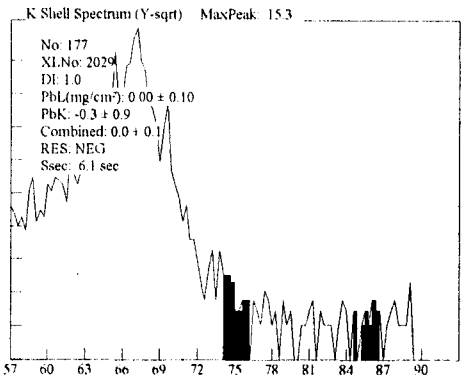

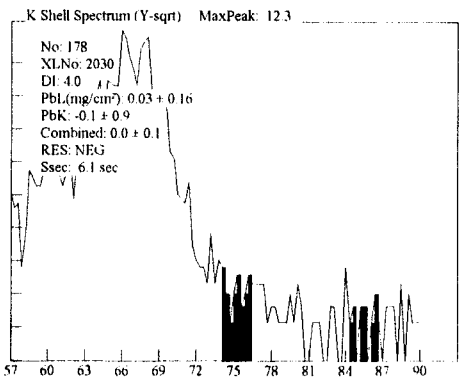

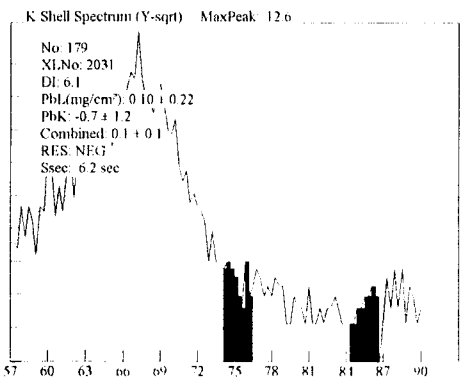

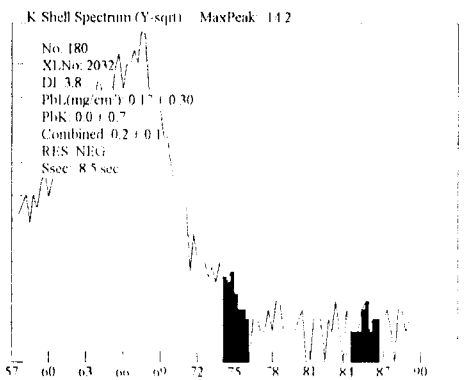

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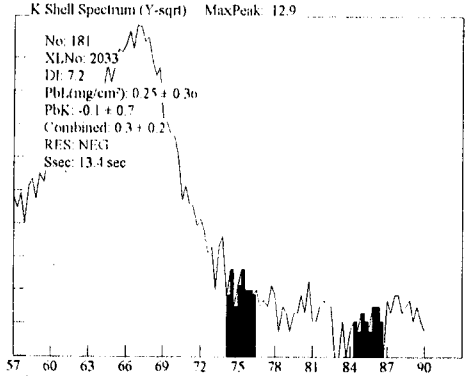

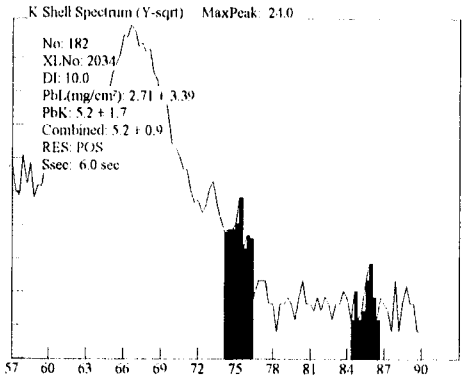

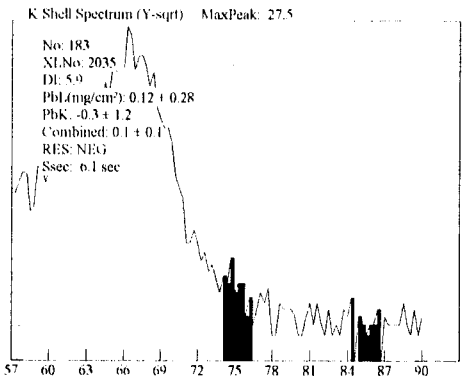

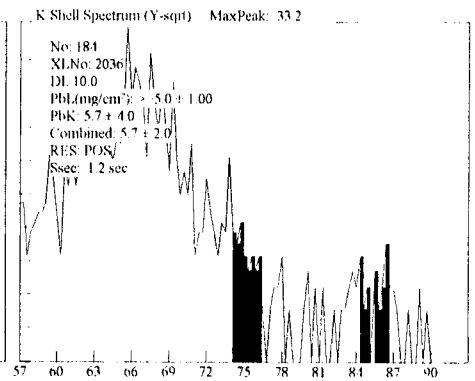

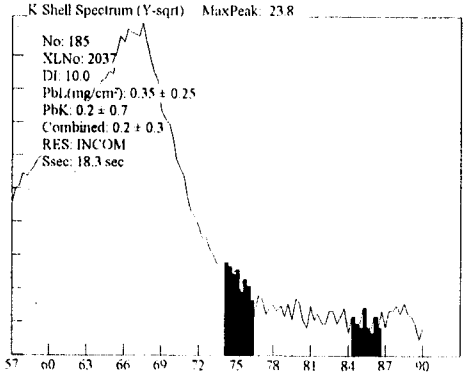

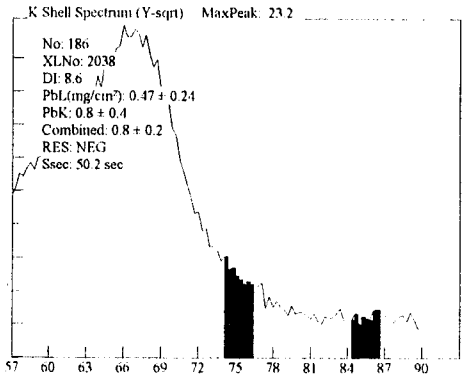

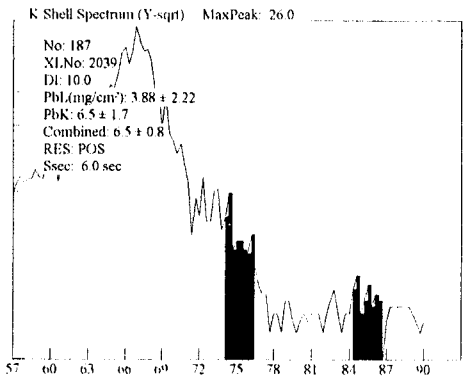

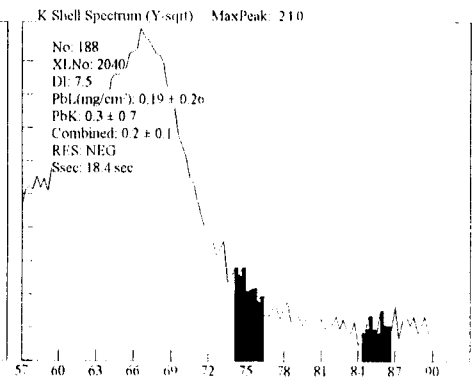

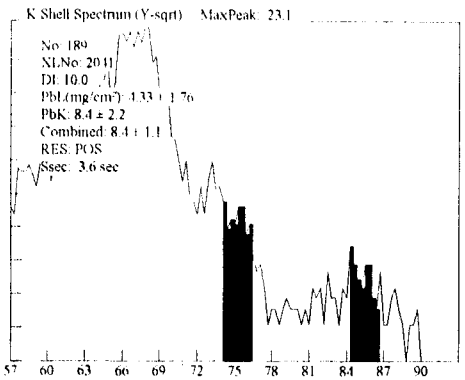

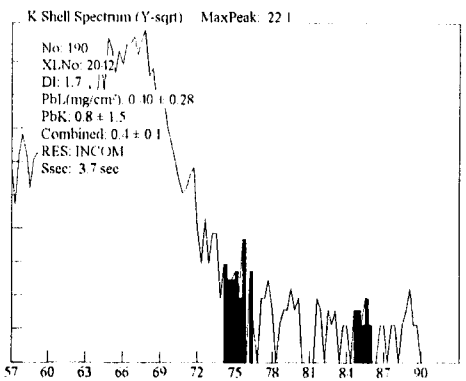

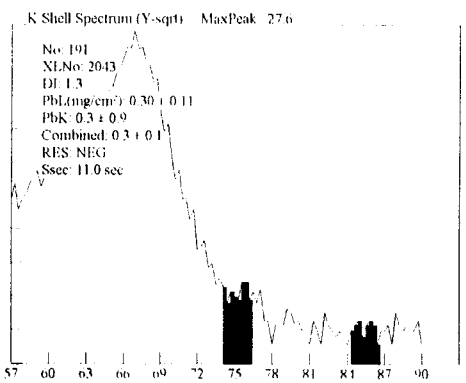

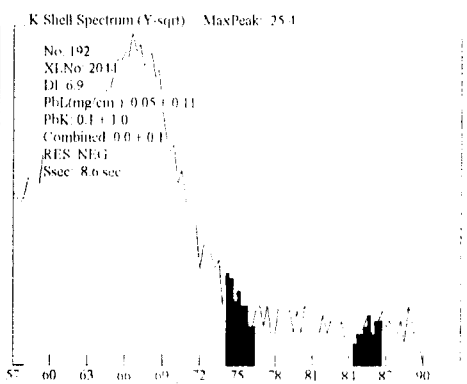

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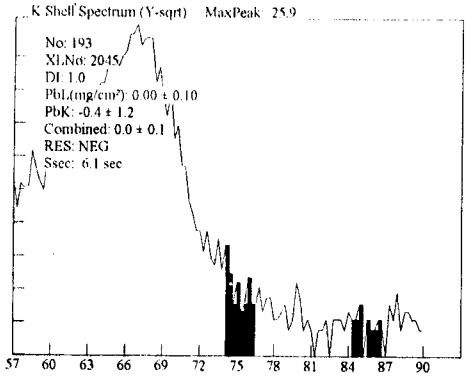
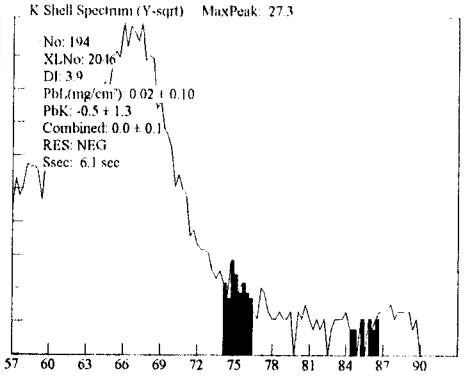
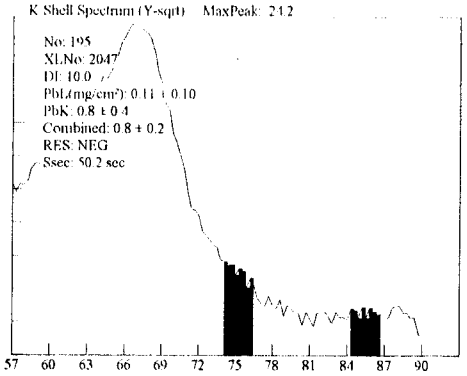
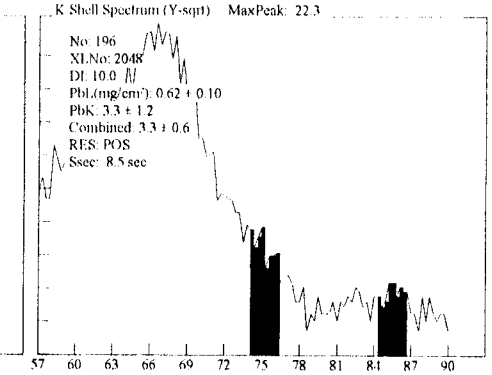
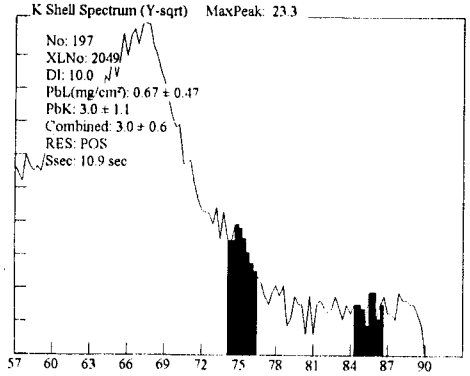
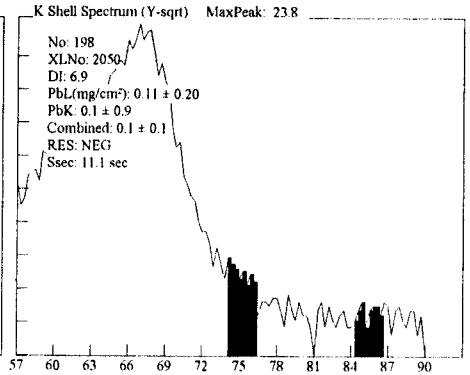


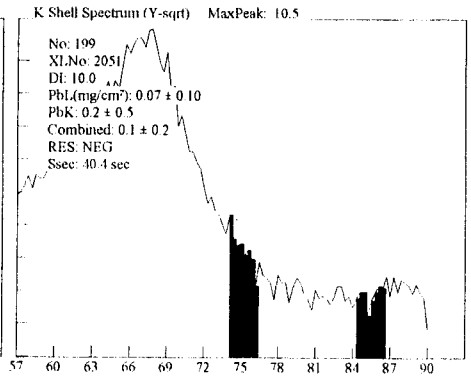


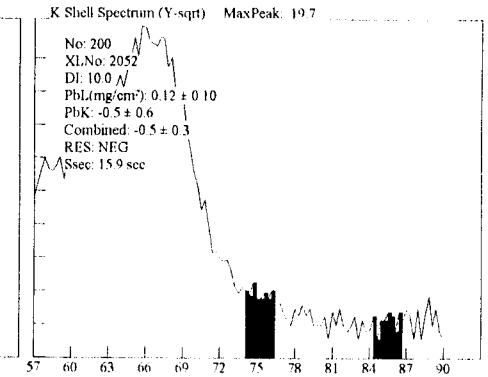


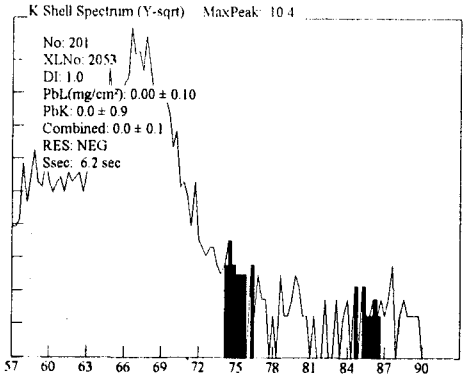


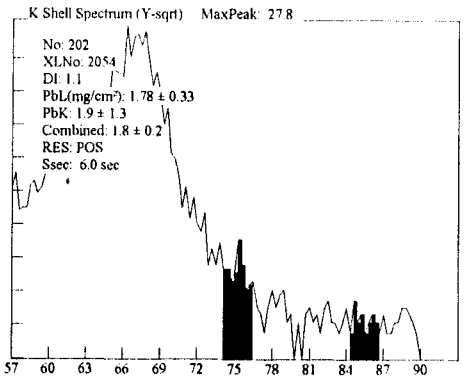


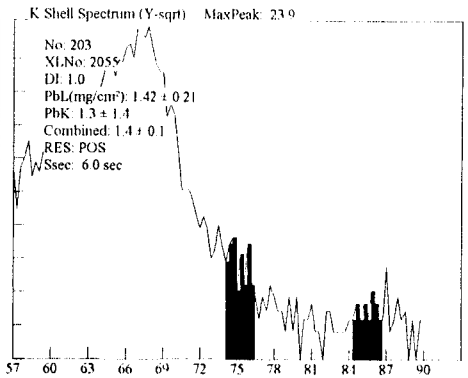


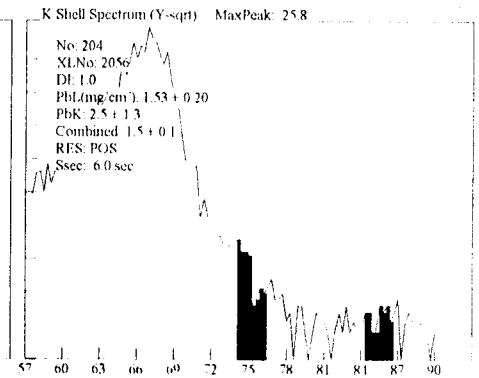












BUILDING 448B

LEAD-BASED PAINT EVALUATION SUMMARY
FOR
BUILDING 448B

A lead-based paint inspection and risk assessment was conducted at Building 448B, Stop 71/2 Naval Reservation, Ponce de Leon Avenue, in San Juan, Puerto Rico for the Department of the Navy (US Navy), Atlantic Division, Naval Facilities in Norfolk, Virginia. The inspection and risk assessment was conducted by Miquel A. Oliveras, a Certified Inspector and Risk Assessor in Puerto Rico.

Building Description and Use

Building 448 is separated into two apartments, namely 448A and 448B; however, this report will represent only unit 448B. Unit 448A will be described in another section of this report. This housing unit was unoccupied at the time of the inspection. The condition of the housing unit was poor, and the housekeeping or cleanliness of the housing unit may have been due to the absence of any resident.

Lead-Paint Investigation

Within the housing unit, the inspector conducted approximately 147 assays using the XRF to characterize the paint at the housing units. Paint measuring greater than 1.0 mg/cm^2 are considered to be LBP for this survey. Fifteen (15) components are reported to be covered with paint that has a lead concentration higher than the criteria level of 1.0 mg/cm^2 as defined by EPA. No paint chip samples were collected to confirm the lead concentration of any paint. The results of the XRF are summarized by building component in the following pages.

The presence of lead-based paint was found in Building 448B. The following are the locations of these findings. The exact location, side, color, paint condition, deterioration type and approximate quantity is available in the sampling data sheet(s) of this report.

Unit 448B

1. Stairway Walls
2. Living Room Baseboard
3. Den Wall
4. Den Door Jambs
5. Room No. 1 Closet Door & Jambs
6. Bathroom Door & Jambs
7. Room No. 2 Baseboard
8. Room No. 2 Closet Door & Jambs
9. Air Conditioner Mechanical Room Ceramic Wall Tiles
10. Kitchen Ceramic Wall Tiles
11. Kitchen Closet Door & Jambs
12. Laundry Walls
13. Shower Door & Jambs
14. Living Room Wall
15. Exterior Walls

Risk Assessment

Within the housing unit, the risk assessor conducted an investigation concerning the lead-based paint and lead paint hazards. To evaluate areas of dust within the housing unit, thirteen (13) wipe samples were collected, including ten interior wipes, two entrance wipes, and one control wipe sample. Lead dust hazards are defined by EPA to exist if concentrations of the dust exceed 40 micrograms per square foot (ug/sq. ft.) for interior floors and 250 ug/sq. ft. for interior window sills. Two (2) of the wipe samples (one interior wipe and one entrance wipe) were reported to have a lead concentration higher than the criteria levels. In addition to the wipe samples, one soil samples was collected and analyzed to confirm the lead concentration of soil around the perimeter of the housing unit. As also reported in the unit 448A report, the soil sample was reported to contain a low lead concentration. According to the EPA, soil hazards are defined as soil containing a lead concentration greater 400 parts per million (expressed as micrograms of lead per gram of soil (ug/g) or milligrams of lead per kilogram of soil (mg/kg)). The results of the dust wipe and the soil analyses are summarized in Table 3-2 and Table 3-3. The final laboratory reports for the dust wipes and soil samples also are provided within this report.

The risk assessment showed that lead hazards exist in the following locations.

1. Deteriorated lead-based paint in the exterior paint
2. Leaded dust in living room carpet

Recommendations

The following are comments based on the hazards present:

1. This housing unit is considered to be in poor condition. The paint deterioration is mainly exterior, and there was leaded dust in the carpet of the living room. These areas should be handled with proper care and according to all federal, state, and local regulations.
2. Dust levels were reported to be high in the living room. The dust level appears to be caused by the deteriorated paint of the living room baseboard or perhaps even some accumulated dust in the carpet from the nearby den side and head jambs. The low maintenance and the fact that there is a carpet floor add greatly to the problem of retaining dust and lead levels in this enclosed environment. This item should be addressed. DOD/EPA guidelines for dust hazards list the criterion level of 40 ug/sq. ft
3. Immediate action should be taken to block all building entrances and thus avoid access to the building's interior by unauthorized personnel.
4. Notification to BOP families on-site is encouraged to avoid exposures to the leaded dust in the building's exterior.
5. Notification to BOP Facilities members to assure that no BOP workers or inmates are sent to the buildings for any possible work, unless adequately trained and experienced.
6. Abatement of the lead hazards is recommended as soon as possible and within the next 12 months which is the maximum time allowed for a report to be current in order to transfer US Navy property.
7. Should abatement not be performed with the next 12 months, then a re-evaluation schedule of the interim control measures should be established.
8. Although DOD/EPA guidelines do not necessarily require removal of lead-based paint, if existing, we strongly encourage the US Navy to remove all the lead-base paint prior to the property transfer. Puerto Rican regulations require this action if buildings are going to be demolished. If the building were going to be used for family housing again, then removal would be the greatest deterrent of possible liability issues arising in the near future.
9. In order to finalize the risk assessment portion of this report, it is necessary for the US Navy to select the hazard control options, which will be approved and adopted, and then incorporated into this document.
10. Other possible hazard control options are described later in this report and include encapsulation, removal of building components, and removal of lead-based paint using abrasive or chemical methods.
11. "A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report also must be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers also are required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards."

LEAD HAZARD CONTROL OPTIONS

1. The name of the individual (s) in charge of the lead based hazard control program is/are: _____, _____
2. Recommended changes to work order system and property management: (Items from number 2-7 of this section) The work order system of the BOP is activated by resident comments and requests, they do not actively have a program that addresses lead based paint and it's hazards. We recommend that before any work is performed on any painted surface, they verify in the report if this building component has lead based paint. If it does not, then proceed with the work. If it does then the work should be performed by personnel trained in lead based paint work, even if it is routine maintenance work. Work order forms shall be custom made to include a space where the person who verifies the presence or not of lead based paint signs confirming the research. A space will also be provided so the person who performs the work will acknowledge that his work was confined to those areas where there was no lead based paint.
3. If at any time work is performed by a qualified individual or firm, it is important to verify worker training and medical qualifications verification. Also the firms and individuals performing this work shall be registered with the PREQB Lead Program if abatement is to be performed. Please verify the PREQB rules included in this report.
4. Before any work is performed at this building the work areas will be sealed off so that the leaded dust does not enter any living areas. Any furniture present should be moved or covered with plastic.
5. If at any time abatement is performed then clearance samples are required prior to reoccupy the housing unit. Other air monitoring requirements apply to workers, please verify the OSHA section of this report for additional information.
6. Ceramic floor and wall tiles, sinks, toilets and bathtubs are not considered a lead hazard, although they have high lead content. The only concern would be if the building is going to be demolished, then PREQB requires their removal prior to demolition. An exception may be if you are if you are going to sample and analyze the demolition debris by a TCLP sample prior to disposal. (A TCLP is a sample that characterises the materials for possible hazardous characteristics)
7. Both the residents and maintenance personnel should attend a general awareness class in lead based paint hazards. This class offers information on the use of HEPA vacuum cleaners, personal protective clothing, respirator use, medical surveillance and other lead related issues. Baker Environmental can assist in these classes.
8. The practice of examining the paint condition annually or upon vacancy is performed by the BOP, it should be continued.
9. Interim Control Options and Estimated Costs: (Items 9-18) The costs below include labor, materials, worker protection, site containment and cleanup.

Building 448B

These are only rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead based paint abatement contractor. Baker Environmental will be pleased to perform clearance testing after the work has been completed at your request.

10. To better calculate the amounts of linear feet, square feet, individual doors, frames, shelves or others; please refer to the approximate quantities information available in the sampling data sheet of this building report. Once you have these quantities then multiply by the unit prices that follow. (Example: Removal of lead based paint in all exterior building walls. Sample data sheet has a quantity of approximately 3,800 square feet @ $12.00 per square foot of removal = $45,600.00 for the removal of the exterior lead based paint of Building 448-B)
11. Lead Based Paint Removal (Mechanical or Chemical) $ 12.00 ft2
12. Lead Based Paint Encapsulation $ 6.00 ft2
13. Door Removal $175.00 ea
14. Door Frame Removal $ 85.00 ea
15. Ceramic Tile Removal $ 15.00 ft2
16. Shelf & Base Removal $ 55.00 ea
17. Baseboard Removal $ 10.00 lin ft
18. Carpet Removal $ 8.00 ft2
19. Reevaluation and Monitoring Schedule: Any of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead hazards do not appear. Keep in mind that encapsulation can only be considered permanent abatement if the encapsulant manufacturer and the "installer" can guarantee the product and it's application for twenty years. If this is not established then you have only an interim control which may be less expensive in the short run but more expensive than removal in the long run due to continuous reevaluation and monitoring. Removal methods need no reevaluation or additional monitoring. The owner should monitor the condition of the paint annually. A professional reevaluation is also needed. The standard schedule for reevaluating the dwelling is shown below.

Unadjusted Standard Reevaluation Schedules Recommended By HUD

Hazard Control Method	Standard Reevaluation Schedule[1]	Type of Reevaluation
Dust Removal	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Paint Film Stabilization	1 year, 2 years later Annually	Dust Sampling Visual Examination of Suspect Paint
Encapsulation	1 month, 6 months; annually thereafter	Visual Examination of Encapsulant Integrity
Enclosure	Annually	Visual Examination
Removal of All Lead-Based Paint	None	None
Building Component Replacement	None	None

Taken from Table 6.1 of the HUD *Guidelines*.

Building 448B

Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program: When the US Navy decides the control options to put in place they will be incorporated into the evaluation report. When this is completed then it will be necessary to meet with anybody residing in the housing unit and explain this report to him/her. This is the time also to make formal delivery the EPA lead pamphlet which is part of this evaluation report. Once these have been done, then signatures of the risk assessor and the US Navy are required.

Signatures:

_____ _____

Department of the Navy Authorized Representative Date

_____ _____

Miguel A. Oliveras - Certified Inspector/Risk Assessor Date

When all the selected hazard control options have been completed then a Certificate of Lead Based Paint Compliance will be issued stating that "Either no lead based paint hazards were identified or all lead based paint hazards have been corrected.

Building 448B

BUILDING DATA

Building 448B

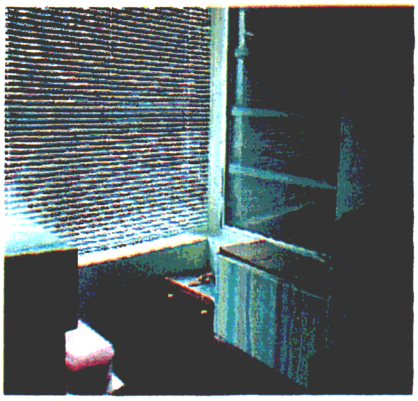
Form 5.1
Building Condition Form

Condition	Yes	No
Roof missing parts of surfaces (tiles, boards, shakes, etc.)		X
Roof has holes or large cracks		X
Gutters or downspouts broken	X	
Chimney masonry cracked, bricks loose or missing, obviously out of plumb		N/A
Exterior or interior walls have obvious large cracks or holes, requiring more than routine pointing (if masonry) or painting		X
Exterior siding has missing boards or shingles		N/A
Water stains on interior walls or ceilings	X	
Plaster walls or ceilings deteriorated		X
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up		X
Foundation has major cracks, missing material, structure leans, or visibly unsound		X
* Total number	3	6

* If the "Yes" column has two or more checks, the dwelling is usually considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining the final condition of the dwelling and the appropriateness of a lead hazard screen.

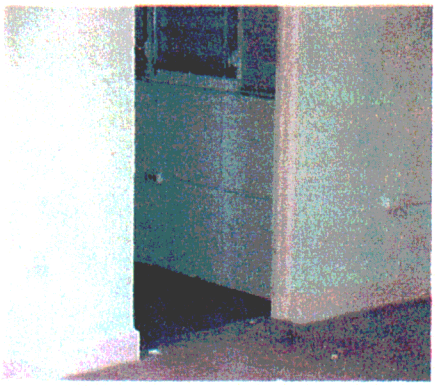
Notes:

U. S. Navy Building 448



Photograph #7

Photograph #8



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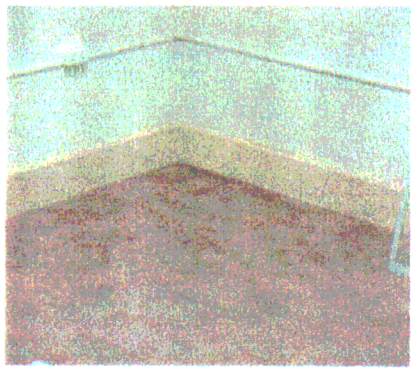

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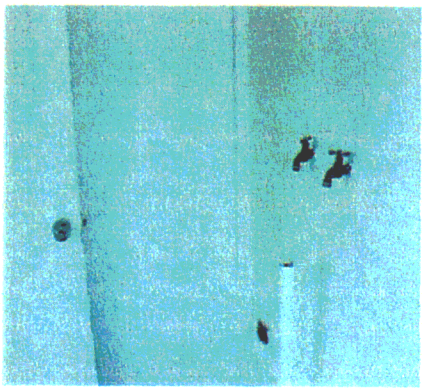
Photograph #11



Photograph #12

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LEAD INSPECTION

SAMPLING DATA SHEET

PC = paint condition
DT = deterioration type
QTY = Quantity
Lf = linear feet
ft = square feet

I = intact
F = fair
P = poor
FRI = friction
IMP = Impact
MoI = Moisture

448B

Client Name: Department of the Navy	Project Name: Stop 7[1/2] Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-963	Entrace Stairway		white	A	concrete	1	448B	pos.	F	MoI
PB-964	Entrace Stairway	240	white	B	concrete	1	448B	pos.	F	MoI
PB-965	Entrace Stairway	ft	white	C	concrete	2	448B	pos.	F	MoI
PB-966	Entrace Stairway		white	D	concrete	2	448B	pos.	F	MoI
PB-976	Living room # 2 baseboard floor	85 lf	peach	C	concrete	2	448B	pos.	F	IMP
PB-977	Den wall	68 ft	white	A	concrete	2	448B	pos.	F	subst
PB-983	Den left door sidejamb	4 ea	peach		wood	2	448B	pos.	F	FRI
PB-984	Den left door heeadjamb	2 ea	peach		wood	2	448B	pos.	F	FRI
PB-985	Living room baseboard		peach	B	concrete	2	448B	pos.	I	FRI
PB-994	Room # 1 closet door	1 ea	peach		wood	2	448B	pos.	F	FRI
PB-995	Room # 1 closet door sidejamb	2 ea	peach		wood	2	448B	pos.	F	FRI
PB-996	Room # 1 closet door headjamb	1 ea	peach		wood	2	448B	pos.	F	FRI
PB-1006	Bathroom door	1 ea	peach		wood	2	448B	pos.	F	FRI
PB-1007	Bathroom door sidejamb	2 ea	peach		metal	2	448B	pos.	F	FRI
PB-1008	Bathroom door headjamb	1 ea	peach		metal	2	448B	pos.	F	FRI
PB-1013	Room # 2 baseboard	50 lf	peach	A	concrete	2	448B	pos.	F	IMP
PB-1018	Room # 2 closet door	1 ea	peach		wood	2	448B	pos.	F	FRI
PB-1019	Room # 2 closet door sidejam	2 ea	peach		wood	2	448B	pos.	F	FRI
PB-1020	Room # 2 closet door haedjamb	1 ea	peach		wood	2	448B	pos.	F	FRI
PB-1029	A/C room ceramic tile wall		mustard	A	concrete	2	448B	pos.		
PB-1031	A/C room trim ceramic		black	A	concrete	2	448B	pos.		
PB-1032	A/C room trim ceramic		white	C	concrete	2	448B	pos.		

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LEAD INSPECTION

SAMPLING DATA SHEET

448B

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Revised 17 Apr 00 2000 HRS

Client Name: Department of the Navy	Project Name: Stop 7[1/2] Naval Reservation
Sampling Method: NITON XRF 700 Series	Job: USN 01 / Date: March 31, 2000

SAMPLE ID	DESCRIPTION		COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.		
PB-1033	A/C Room trim (lower part)		black	C	concrete	2	448B	pos.		
PB-1038	Kitchen wall ceramic tile 4"x4" lower part		yellow	B	concrete	2	448B	pos.		
PB-1039	Kitchen wall ceramic tile 2" x 6"		black	C	concrete	2	448B	pos.		
PB-1045	Kitchen closet door	1 ea	bone white		wood	2	448B	pos.	F	FM
PB-1047	Kitchen closet door headjam	1 ea	bone white		wood	2	448B	pos.	F	FM
PB-1049	Kitchen closet door headjam left side		bone white		wood	2	448B	pos.		
PB-1058	Laundry wall	65 ft	white	B	concrete	2	448B	pos.	F	MO1
PB-1059	Laundry wall	65 ft	white	C	concrete	2	448B	pos.	F	MO1
PB-1067	Shower door next to laundry	1 ea	white		wood	2	448B	pos.	F	MO1
PB-1069	Shower door next to laundry headjam	1 ea	white		wood	2	448B	pos.	F	MO1
PB-1082	Living room wall upper part	1 ft	white	D	concrete	2	448B	pos.	I	
PB-1099	Outside wall		white	A	concrete	2	448B	pos.	P	MO1
PB-1101	Outside wall	3,800	white	B	concrete	2	448B	pos.	P	MO1
PB-1103	Outside wall	ft	white	C	concrete	2	448B	pos.	P	MO1
PB-1105	Outside wall		white	D	concrete	2	448B	pos.	P	MO1

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LEAD INSPECTION

SAMPLING DATA SHEET

448 B

Client Name: Department of the Navy	Project Name: Stop 7[1/2] Naval Reservation	
Sampling Method: NITON XRF 700 Series	Job: USN 01	Date: March 31, 2000

SAMPLE ID	DESCRIPTION	QTY	COLOR	SIDE	SUSTRATE	LEVEL	BLDG.	POS. / NEG.	PC	DT
PB-2007	Room # 2 closet door sidejam	2 ea	bone white	A	wood	1	448A	pos.	F	FN1
PB-2014	Room # 1door	1 ea	white	D	wood	1	448A	pos.	F	IMP
PB-2015	Den door # 1 sidejam	4 ea	bone white	A	wood	1	448A	pos.	I	
PB-2016	Den door # 1 headjam	2 ea	bone white	A	wood	1	448A	pos.	I	
PB-2026	Den door # 2 sidejam same		bone white	A	wood	1	448A	pos.	I	
PB-2027	Den door # 2 headjam on above		bone white	A	wood	1	448A	pos.	I	
PB-2034	Exterior wall		white	A	concrete	1	448A	pos.	P	M01
PB-2036	Exterior wall	4000	white	B	concrete	1	448A	pos.	P	M01
PB-2039	Exterior wall	ft	white	C	concrete	1	448A	pos.	P	M01
PB-2041	Exterior wall		white	D	concrete	1	448A	pos.	P	M01
PB-2048	Entrance side base raise		white	A	concrete	1	448A	pos.		
PB-2049	Entrance side step		white	A	concrete	1	448A	pos.		
PB-2054	Calibration test					1	448A	pos.		
PB-2055	Calibration test					1	448A	pos.		
PB-2056	Calibration test					1	448A	pos.		

448B

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
963	Entrance stair way	white	A	Concrete	1	448B	P	6.2
964	"	"	B	"	1	"	P	2.10
965	"	"	C	"	1	"	P	2.20
966	" "	"	D	"	2	"	P	2.6
967	stair step #13	gray		"	"	"	N	
968	hand rail / Entrance	"	B	wood	"	"	N	
969	Entrance door 2nd floor	white		Metal	"	"	N	
970	" " side jam	"		"	"	"	N	
971	" " Head jam	"		"	"	"	N	
972	Living room wall	bone white	A	Concrete	"	"	N	
973	" "	"	B	"	"	448B	N	
974	" "	"	C	"	"	"	N	
975	" "	"	D	"	"	"	N	
976	base board #2 Living room floor	peach	C	"	"	"	P	2.8

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
977	dent wall	white	A	concrete	2	448B	P	1.5
978	dent wall "	"	B	"	"	"	N	
979	"	"	C	"	"	"	N	
980	"	"	D	"	"	"	N	
981	right door dent sidejam	peach		wood	"	"	N	
982	" Headjam	peach		wood	"	"	N	
983	left door sidejam	peach		wood	"	"	P	1.6
984	" Headjam	"		"	"	"	P	2.5
985	Base board Living room	"	B	concrete	"	"	P	3.2
986	Room # 1 wall 2nd floor	bone white	A	"	"	"	N	
987	" " "	"	B	"	"	"	N	
988	" " "	"	C	"	"	"	N	
989	" " "	"	D	"	"	"	N	
990	Closet wall room # 1	"	A	"	"	"	N	
991	" "	"	B	"	"	"	N	
992	" "	"	C	"	"	"	N	
993	" "	"	D	"	"	"		

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
994	Closet door room # 1	Peach		wood	2	448 B	P	3.4
995	" " side jam	"		"	"	"	P	1.90
996	" " head jam	"		"	"	"	P	2.10
997	Ceramic FT	Mustard		Ceramic	"	"	N	
998	bath room wall	bone white	A	Concrete	"	"	N	
999	" " wall	"	B	"	"	"	N	
1,000	" wall	"	C	"	"	"	N	
1,001	" "	"	D	"	"	"	N	
1,002	Ceramic tile 6x6 bath room	white	A	Ceramic	"	"	N	
1,003	sink " "	white		"	"	"	N	
1,004	Toilet tank	"		"	"	"	N	
1,005	Toilet base	"		"	"	"	N	
1,006	bath room door	Peach		"	"	"	P	2.10
1,007	" side jam	Peach		Metal	"	"	P	1.8
1,008	" Head jam	"		Metal	"	"	P	1.8

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,009	room # 2 wall	bone white	A	Concrete	2	448[3]	Neg	
1,010	" "	"	B	"	"	"	Neg	
1,011	" "	"	C	"	"	"	Neg	
1,012	" "	"	D	"	"	"	Neg	
1,013	base board	peach	A	"	"	"	P	2.3
1,014	closet wall room # 2	bone white	A	"	"	"	N	
1,015	" "	"	B	"	"	"	N	
1,016	" "	"	C	"	"	"	N	
1,017	" "	"	D	"	"	"	N	
1,018	closet door	peach		"	"	"	P	3.4
1,019	" " side jam	"		"	"	"	P	1.3
1,020	" " head jam	"		"	"	"	P	1.10
1,021	Hallway to the Kitchen wall	white	A	"	"	"	N	
1,022	" "	white	B	"	"	"	N	
1,023	" "	white	C	wood	"	"	N	
1,024	" "	"	D	concrete	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,025	Air conditioning room	white	A	Concrete	2	448B	N	
1,026	" "	"	B	"	"	"	N	
1,027	" "	"	C	Wood	"	"	N	
1,028			D	"	"	"	N	
1,029	Air Conditioning room tile Ceramic wall	Mustard	A	~~Concrete~~ Ceramic	"	"	P	11
1,030	Air Conditioning room trim concrete	black	A	trim Concrete	"	"	N	
1,031	Air conditioning room trim	black	A	Ceramic	"	"	P	2.0
1,032	" " " Ceramic	white	C	Ceramic	"	"	P	12.00
1,033	" " " Lower part	black	C	"	"	"	P	27.00
1,034	Kitchen wall Half	bone white	A	Concrete	"	"	N	
1,035	" "	"	B	Concrete	"	"	N.	
1,036	" "	"	C	Concrete	"	"	N	
1,037	" "	"	D	"	"	"	N	
1,038	" " Lower part tile	yellow	A	Ceramic 4x4	"	"	P	2.8

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,039	Kitchen wall Ceramic Tile 2x6	Black	C	Ceramic	2	448 B	P	3.2
1,040	Kitchen Closet wall	bone white	A	Concrete	2	448 B	N	
1,041	" "	"	B	"	"	"	N	
1,042	" "	"	C	"	"	"	N	
1,043	" "	"	D	"	"	"	N	
1,044	" " shelve #1	white	B	wood	"	"	N	
1,045	Kitchen closet door	bone white		wood	"	"	P	3.1
1,046	" " side right side jam	"		"	"	"	N	
1,047	" " Head jam	"		"	"	"	P	3.3
1,048	Kitchen closet Floor	gray		Paint	"	"	N	
1,049	Kitchen closet left side side jam	bone white		wood	"	"	P	3.2
1,050	Kitchen closet right side jam (construction)			wood	"	"	N	
1,051	Kitchen door entrance	bone white	C	wood	"	"	N	
1,052	" " " side jam	"		metal ~~wood~~	"	"	N	
1,053	" " " Head jam	"		metal	"	"	N	
~~1,054~~	~~" " " "~~							

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448 B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,054	Kitchen door outside	bone white	A	metal	2	448 B	N	
1,055	" " side jam	"		"	"	"	Neg	
1,056	" " Head jam	"		"	"	"	N	
1,057	Laundry wall	white	A	Concrete	"	"	N	
1,058	" "	"	B	"	"	"	P	4.7
1,059	" "	"	C	"	"	"	P	5.9
1,060	" "	"	D	"	"	"	N	
1,061	Laundry Floor	gray		paint floor	"	"	N	
1,062	Shower room Next to Laundry wall	white	A	Concrete	"	"	N	
1,063	" "	"	B	"	"	"	N	
1,064	" "	"	C	"	"	"	N	
1,065	" "	"	D	"	"	"	N	
1,066	Shower floor	gray		paint floor	"	"	N	
1,067	Shower door	white		wood	"	"	P	1.4
1,068	Shower door side left jam	"		"	"	"	N	
1,069	Shower door head jam	"		"	"	"	P	1.2
1,070	" " side jam right side	"		"	"	"	N	

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1,071	Kitchen washer base	white	A	wood	2	448B	Neg
1,072	Laundry window wood frame	white	A	"	"	"	N
1,073	Kitchen wall Upper part	"	D	Concrete	"	"	N
1,074	" "	"	A	"	"	"	N
1,075	" "	"	B	"	"	"	N
1,076	" "	"	C	"	"	"	N
1,077	Kitchen window #1	white	D	Metal	"	"	N
1,078	Window hall #1	white	D	"	"	"	N
1,079	Living room window #1	"	D	"	"	"	N
1,080	dent window outside #2	"	A	"	"	"	N
1,081	dent window inside #2	"	C	"	"	"	N
1,082	Living room wall Upper part	"	D	Concrete	"	"	P
1,083	" " "	"	C	"	"	"	N
1,084	" " "	"	A	"	"	"	N
1,085	" "	"	B	"	"	"	N

4.2 – mix with other paint

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.
1,086	Living room wall upper part Conformation	White	D	Concrete	2	448 B	N
1,087	~~Entrance~~ room # 2 upper wall	white	A	concrete	2	448 B	N
1,088	room # 2 upper wall	"	B	"	"	"	N
1,089	" "	"	C	"	"	"	N
1,090	" "	"	D	"	"	"	N
1,091	Window # 1 Room # 2	"	C	Metal	"	"	N
1,092	bath room window	"	C	"	"	"	N
1,093	Room # wall upper part	"	A	Concrete	"	"	N
1,094	" "	"	B	"	"	"	N
1,095	" "	"	C	"	"	"	N
1,096	" "	"	D	"	"	"	N
1,097	Window # 1 Room # 1	"	A	Metal	"	"	N
1,098	Entrance window left side	"	A	Metal	"	"	N
1,099	Outside wall	"	A	Concrete	1	448 A	P

60

ENVIRONMENTAL ASSESSMENT CORPORATION
LEAD INSPECTION
SAMPLING DATA SHEET

448B

CLIENT:	PROJECT NAME
SAMPLING METHOD	JOB: / DATE:

SAMPLE ID	DESCRIPTION	COLOR	SIDE	COND.	LEVEL	BLDG.	POS. / NEG.	
1,100	Calero	blue	A	Concrete	1	448 A	Neg	
1,101	Outside wall	white	B	"	1	448 A	P	7.2
1,102	Calero	blue	B	"	1	"	N	
1,103	outside wall	white	C	"	"	"	P	6.5
1,104	Calero	blue	C	"	"	"	N	
1,105	Outside wall	white	D	"	"	"	P	7.4
1,106	Calero	blue	D	"	"	"	N	
1,107	Entrance step Electric pipe	white	D	Metal	"	"	N	
1,108	Circuit breaker Box	gray	D	"	"	"	N	
1,109	Entrance step Electric pipe	white	"	"	"	"	N	
~~1,110~~	~~Entrance step Electric pipe~~							

SAMPLING DATA

Form 5.4
Field Sampling Form for Dust
(Single-Surface Sampling)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address 448 B Bildg Apt. no. Sto 7 1/2

Dwelling selection protocol ✓ All dwellings _____ Targeted _____ Worst case _____ Random

~~Target d~~welling criteria (check all that apply)

_____ Code violations
✓ Judged to be in poor condition
_____ Presence of two or more children between ages of 6 months and 6 years
_____ Serves as day-care facility
_____ Recently prepared for reoccupancy

	Sample number	Room (record name of room used by the owner or resident)	Surface type (circle the type)	Is surface smooth and cleanable?	Dimensions[1] of sample area (inches x inches)	Area (ft²)	Result of lab analysis (µg/ft²)
767	D-448B.01	Playroom Living Room	Floor	carpet	12 x 12		43.6
	D-448.B.02	Playroom Living Room	Interior window sill or window trough	y	2 x 8		211.0
766	D-448B.03	Kitchen	Floor	y	12 x 12		29.0
767	D-448B.04	Kitchen	Interior window sill or window trough	y	12 x 12		15.2
768	D-448B.05	Bedroom 1 Room No 1	Floor	y	12 x 12		38.7
769	D-448B.06	Bedroom 1 Room No. 1	Interior window sill or window trough	y	2 x 8		175.0
770	D-448.B.07	Bedroom 2 Room No 2	Floor	carpet	12 x 12		25.7
771	D-448B.08	Bedroom 2 Room No. 2	Interior window sill or window trough	y	2 x 8		163.0
772	D-448B.09	Den	Floor	carpet	12 x 12		12.0
773	D-448B.10	Den	Int wind sill	y	1 x 16		111.0
774	D448B.11	Control	Floor	y	12 x 12		<8.0

[1] Measure to the nearest 1/8 inch.

HUD standards: 100 µg/ft² (floors), 500 µg/ft² (interior window sills), 800 µg/ft² (window troughs)

Total number of samples on this page 11

Page 1 of 1

Date of sample collection 9 / Apl / 00 Date shipped to lab 10 / Apr / 00

Shipped by [signature] (signature) Received by Karen J. Arata 10:00 (signature)

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
Calle Labra #1004, 2nd. Floor, Ave. R.H. Todd, Santurce, P.R. 00908
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Baker Environmental
Address:
Contact:
Phone/Fax:

Project Name: US Navy - Stop 7½ Site 448 B
Site Location:
Samplers Name: Miguel Olivieras
Company:

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	ANALYSIS REQUIRED Pb Wipes							Remarks
81 793	[redacted] ED.448B.19	Ext 1st Fl. Deck Stay Entrance Side B	4/9/00			✓		N/A	1	✓							
81 794	[redacted] ED.448A.20	Side A				✓			1	✓							
81 795	[redacted]	Int Side Entrance				✓			1	✓							
81 796	ED.448B.22	Int 1st Fl. Stairway Foyer Side A				✓			1	✓							216.0 ug/sq.ft
81 797	ED.448B.23	Int 2nd Fl Stairway Foyer Side A				✓			1	✓							29.8 ug/sq.ft
81 798	[redacted]					✓			1	✓							

Turnaround Time: Normal: ☐ Rush: ✓

Comments:

Relinquished By:	Miguel A. Olivieras	Date/Time	10 Apr 00 1200	Delivered Directly to Lab: ☐	Shipped: ☐
Received By:	Kenny Acosta	Date/Time	4-10-00 12:20 am	Method of Shipment:	
Relinquished By:		Date/Time		Lab. Recipient:	
Received		Date/Time		Date:	

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Oliveras

Name of property owner US Navy

Property address 448 Bldg

Sample number	Location	Bare or covered	Lab result (µg/g)
S. 448. 01	Building perimeter		225.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

XRF DATA

448 B

Serial #XL309-U12673701LY Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
1	**963**	**1.05 ± 0.86**	**POS**	**6.2 ± 2.0**	**6.2 ± 1.0**	**10.0**	**3.7**	**3/30/100**	**15:46:05**
2	**964**	**1.12 ± 0.75**	**POS**	**2.2 ± 0.8**	**2.1 ± 0.4**	**10.0**	**20.7**	**3/30/100**	**15:46:29**
3	**965**	**0.18 ± 0.10**	**POS**	**2.2 ± 0.8**	**2.2 ± 0.4**	**10.0**	**20.7**	**3/30/100**	**15:47:22**
4	**966**	**0.45 ± 0.31**	**POS**	**2.6 ± 0.9**	**2.6 ± 0.4**	**10.0**	**15.9**	**3/30/100**	**15:48:11**
5	967	0.06 ± 0.26	NEG	-0.4 ± 1.2	0.1 ± 0.1	3.8	6.1	3/30/100	15:49:06
6	968	0.05 ± 0.17	NEG	-0.3 ± 0.8	0.1 ± 0.1	5.3	8.5	3/30/100	15:49:27
7	969	0.00 ± 0.10	NEG	0.1 ± 1.0	0.0 ± 0.1	2.0	11.0	3/30/100	15:50:22
8	970	0.00 ± 0.10	NEG	0.9 ± 0.8	0.0 ± 0.1	1.0	20.9	3/30/100	15:50:49
9	971	0.01 ± 0.10	NEG	0.6 ± 0.8	0.0 ± 0.1	3.8	20.9	3/30/100	15:51:38
10	972	0.08 ± 0.10	NEG	-0.4 ± 0.7	-0.4 ± 0.3	10.0	23.3	3/30/100	15:52:50
11	973	0.05 ± 0.10	NEG	0.3 ± 0.6	0.0 ± 0.1	5.9	25.8	3/30/100	15:53:45
12	974	0.05 ± 0.17	NEG	0.2 ± 1.0	0.0 ± 0.1	4.3	11.1	3/30/100	15:54:45
13	975	0.17 ± 0.13	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	23.3	3/30/100	15:55:15
14	**976**	**0.65 ± 0.45**	**POS**	**2.8 ± 1.0**	**2.8 ± 0.5**	**10.0**	**13.5**	**3/30/100**	**15:56:15**
15	**977**	**0.51 ± 0.32**	**POS**	**1.5 ± 0.5**	**1.5 ± 0.2**	**10.0**	**50.4**	**3/30/100**	**15:57:30**
16	978	0.02 ± 0.10	NEG	0.6 ± 0.7	0.0 ± 0.1	2.6	20.9	3/30/100	15:59:29
17	979	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	3/30/100	16:00:24
18	980	0.42 ± 0.29	NEG	0.6 ± 0.7	0.4 ± 0.1	6.3	20.9	3/30/100	16:00:53
19	981	0.06 ± 0.10	NEG	1.0 ± 0.4	0.1 ± 0.1	7.7	43.3	3/30/100	16:02:10
20	982	0.03 ± 0.10	NEG	1.0 ± 0.4	0.0 ± 0.1	7.7	31.0	3/30/100	16:03:57
21	**983**	**0.25 ± 0.16**	**POS**	**1.6 ± 0.4**	**1.6 ± 0.2**	**10.0**	**50.7**	**3/30/100**	**16:05:15**
22	**984**	**0.56 ± 0.39**	**POS**	**2.5 ± 0.8**	**2.5 ± 0.4**	**10.0**	**15.9**	**3/30/100**	**16:07:10**
23	**985**	**0.59 ± 0.44**	**POS**	**3.2 ± 1.2**	**3.2 ± 0.6**	**10.0**	**8.6**	**3/30/100**	**16:07:59**
24	986	0.01 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	11.0	3/30/100	16:10:54
25	987	0.16 ± 0.11	NEG	0.7 ± 0.4	0.7 ± 0.2	10.0	50.3	3/30/100	16:11:23
26	988	0.00 ± 0.10	NEG	-0.6 ± 1.3	0.0 ± 0.1	1.0	6.1	3/30/100	16:13:22
27	989	0.07 ± 0.13	NEG	-0.2 ± 0.9	0.1 ± 0.1	7.1	13.5	3/30/100	16:13:42

448.B

Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
28	990	0.01 ± 0.10	NEG	0.1 ± 0.8	0.0 ± 0.1	1.1	13.5	3/30/100	16:14:25
29	991	0.02 ± 0.14	NEG	0.3 ± 0.8	0.0 ± 0.1	2.4	13.5	3/30/100	16:14:58
30	992	0.00 ± 0.10	NEG	-0.2 ± 1.0	0.0 ± 0.1	1.0	8.6	3/30/100	16:15:37
31	993	0.08 ± 0.16	NEG	-0.3 ± 0.7	0.1 ± 0.1	6.5	18.4	3/30/100	16:16:00
32	**994**	**1.52 ± 1.17**	**POS**	**3.4 ± 1.3**	**3.4 ± 0.7**	**10.0**	**6.1**	**3/30/100**	**16:17:03**
33	**995**	**0.62 ± 0.41**	**POS**	**1.9 ± 0.6**	**1.9 ± 0.3**	**10.0**	**20.9**	**3/30/100**	**16:18:49**
34	**996**	**0.70 ± 0.50**	**POS**	**2.1 ± 0.6**	**2.1 ± 0.3**	**9.7**	**20.9**	**3/30/100**	**16:20:40**
35	997	0.00 ± 0.10	NEG	-0.6 ± 1.3	0.0 ± 0.1	1.0	6.2	3/30/100	16:21:39
36	998	0.09 ± 0.21	NEG	0.4 ± 0.8	0.1 ± 0.1	4.4	16.0	3/30/100	16:23:09
37	999	0.00 ± 0.10	NEG	-0.2 ± 1.2	0.0 ± 0.1	1.3	6.1	3/30/100	16:23:48
38	1000	0.13 ± 0.18	NEG	-0.2 ± 0.8	0.1 ± 0.1	7.6	16.0	3/30/100	16:24:05
39	1001	0.07 ± 0.20	NEG	-0.3 ± 0.9	0.1 ± 0.1	3.3	11.0	3/30/100	16:24:46
40	1002	0.04 ± 0.10	NEG	-0.1 ± 1.1	0.0 ± 0.1	1.0	8.1	3/30/100	16:25:47
41	1003	0.01 ± 0.10	NEG	0.6 ± 0.6	0.0 ± 0.1	1.0	19.9	3/30/100	16:26:25
42	1004	0.13 ± 0.31	NEG	0.4 ± 0.8	0.1 ± 0.2	6.1	10.5	3/30/100	16:27:23
43	1005	0.08 ± 0.54	NEG	-0.1 ± 1.1	0.1 ± 0.3	2.8	5.8	3/30/100	16:27:53
44	**1006**	**0.53 ± 0.35**	**POS**	**2.1 ± 0.7**	**2.1 ± 0.4**	**10.0**	**20.8**	**3/30/100**	**16:28:11**
45	**1007**	**0.36 ± 0.24**	**POS**	**1.8 ± 0.5**	**1.8 ± 0.3**	**10.0**	**28.4**	**3/30/100**	**16:28:59**
46	**1008**	**0.24 ± 0.18**	**POS**	**1.8 ± 0.4**	**1.8 ± 0.2**	**8.2**	**48.2**	**3/30/100**	**16:30:04**
47	1009	0.00 ± 0.10	NEG	-1.1 ± 1.2	0.0 ± 0.1	1.0	6.1	3/30/100	16:32:11
48	1010	0.03 ± 0.10	NEG	0.4 ± 0.4	0.0 ± 0.1	7.3	42.9	3/30/100	16:32:30
49	1011	0.22 ± 0.16	NEG	-0.3 ± 0.6	-0.3 ± 0.3	10.0	25.8	3/30/100	16:34:10
50	1012	0.03 ± 0.11	NEG	0.5 ± 0.6	0.0 ± 0.1	4.1	20.9	3/30/100	16:35:12
51	**1013**	**0.51 ± 0.34**	**POS**	**2.3 ± 0.7**	**2.3 ± 0.4**	**10.0**	**20.8**	**3/30/100**	**16:36:13**
52	1014	0.12 ± 0.16	NEG	0.1 ± 0.7	0.1 ± 0.1	7.7	20.9	3/30/100	16:37:25
53	1015	0.06 ± 0.19	NEG	0.4 ± 0.7	0.1 ± 0.1	3.9	16.0	3/30/100	16:38:13
54	1016	0.08 ± 0.19	NEG	-0.7 ± 1.1	0.1 ± 0.1	6.0	8.6	3/30/100	16:38:51
55	1017	0.02 ± 0.18	NEG	-0.5 ± 1.3	0.0 ± 0.1	1.9	6.1	3/30/100	16:39:14

Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
56	**1018**	**0.81 ± 0.59**	**POS**	**3.4 ± 1.0**	**3.4 ± 0.5**	**10.0**	**8.6**	**3/30/100**	**16:39:34**
57	**1019**	**0.58 ± 0.22**	**POS**	**1.3 ± 0.4**	**1.3 ± 0.2**	**7.6**	**50.5**	**3/30/100**	**16:40:01**
58	**1020**	**0.33 ± 0.21**	**POS**	**1.1 ± 0.4**	**1.1 ± 0.2**	**10.0**	**50.6**	**3/30/100**	**16:41:59**
59	1021	0.00 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	1.0	8.6	3/30/100	16:50:15
60	1022	0.00 ± 0.10	NEG	0.3 ± 0.8	0.0 ± 0.1	1.0	13.5	3/30/100	16:50:39
61	1023	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.1	3/30/100	16:51:13
62	1024	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	8.6	3/30/100	16:51:34
63	1025	0.00 ± 0.10	NEG	-0.3 ± 1.1	0.0 ± 0.1	1.0	6.1	3/30/100	16:54:07
64	1026	0.00 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	8.6	3/30/100	16:54:26
65	1027	0.00 ± 0.10	NEG	-0.5 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	16:54:52
66	1028	0.00 ± 0.10	NEG	-0.9 ± 1.1	0.0 ± 0.1	1.0	6.2	3/30/100	16:55:14
67	**1029**	**>>5.0 ± 1.00**	**POS**	**10.8 ± 4.1**	**10.8 ± 2.1**	**2.3**	**1.2**	**3/30/100**	**16:56:03**
68	1030	0.12 ± 0.11	NEG	-0.9 ± 1.3	0.1 ± 0.1	1.3	6.1	3/30/100	16:58:44
69	**1031**	**0.50 ± 0.12**	**POS**	**2.0 ± 0.6**	**2.0 ± 0.3**	**2.1**	**22.8**	**3/30/100**	**17:00:40**
70	**1032**	**3.86 ± 2.24**	**POS**	**11.7 ± 4.8**	**11.7 ± 2.4**	**3.3**	**1.2**	**3/30/100**	**17:01:58**
71	**1033**	**>>5.0 ± 1.00**	**POS**	**26.9 ± 5.8**	**26.9 ± 2.9**	**1.8**	**1.2**	**3/30/100**	**17:02:43**
72	1034	0.00 ± 0.10	NEG	-1.0 ± 1.3	0.0 ± 0.1	1.0	6.1	3/30/100	17:03:24
73	1035	0.00 ± 0.10	NEG	-0.8 ± 1.3	0.0 ± 0.1	1.4	6.1	3/30/100	17:03:43
74	1036	0.28 ± 0.16	NEG	0.8 ± 0.7	0.3 ± 0.1	3.6	20.7	3/30/100	17:04:01
75	1037	0.01 ± 0.10	NEG	0.8 ± 0.6	0.0 ± 0.1	2.8	20.9	3/30/100	17:04:52
76	**1038**	**2.83 ± 0.69**	**POS**	**5.9 ± 1.6**	**2.8 ± 0.3**	**1.9**	**5.8**	**3/30/100**	**17:06:20**
77	**1039**	**>>5.0 ± 1.00**	**POS**	**31.9 ± 6.1**	**31.8 ± 3.1**	**1.8**	**1.1**	**3/30/100**	**17:06:53**
78	1040	0.11 ± 0.26	NEG	-0.5 ± 0.9	0.1 ± 0.1	5.5	11.0	3/30/100	17:08:36
79	1041	0.06 ± 0.29	NEG	-0.4 ± 1.2	0.1 ± 0.1	2.8	6.1	3/30/100	17:09:04
80	1042	0.23 ± 0.41	NEG	-1.3 ± 1.2	0.2 ± 0.2	6.8	6.1	3/30/100	17:09:21
81	1043	0.13 ± 0.35	NEG	-0.5 ± 1.2	0.1 ± 0.2	5.1	6.1	3/30/100	17:09:39
82	1044	0.37 ± 0.28	NEG	-0.1 ± 0.6	-0.1 ± 0.3	9.7	18.4	3/30/100	17:10:03
83	**1045**	**1.12 ± 0.85**	**POS**	**3.1 ± 1.2**	**3.1 ± 0.6**	**10.0**	**6.1**	**3/30/100**	**17:10:51**

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
84	1046	0.10 ± 0.10	NEG	0.5 ± 0.3	0.5 ± 0.1	9.4	50.8	3/30/100	17:11:23
85	**1047**	**0.43 ± 0.38**	**POS**	**3.3 ± 0.9**	**3.3 ± 0.5**	**9.5**	**6.2**	**3/30/100**	**17:13:31**
86	1048	0.14 ± 0.17	NEG	0.5 ± 0.7	0.1 ± 0.1	4.0	18.3	3/30/100	17:14:20
87	**1049**	**0.24 ± 0.49**	**POS**	**3.2 ± 1.2**	**3.2 ± 0.6**	**6.1**	**6.2**	**3/30/100**	**17:15:10**
88	1050	0.16 ± 0.22	NEG	0.3 ± 0.7	0.2 ± 0.1	7.5	11.1	3/30/100	17:16:19
89	1051	0.02 ± 0.10	NEG	-0.1 ± 1.0	0.0 ± 0.1	6.3	11.0	3/30/100	17:17:37
90	1052	0.01 ± 0.10	NEG	-0.1 ± 0.9	0.0 ± 0.1	6.7	16.0	3/30/100	17:18:06
91	1053	0.01 ± 0.10	NEG	0.6 ± 0.6	0.0 ± 0.1	6.1	28.3	3/30/100	17:18:45
92	1054	0.00 ± 0.10	NEG	-0.4 ± 1.4	0.0 ± 0.1	1.0	6.1	3/30/100	17:20:36
93	1055	0.00 ± 0.10	NEG	0.2 ± 0.9	0.0 ± 0.1	2.3	16.0	3/30/100	17:20:58
94	1056	0.00 ± 0.10	NEG	-0.2 ± 1.1	0.0 ± 0.1	1.0	8.6	3/30/100	17:21:48
95	1057	0.02 ± 0.18	NEG	-0.7 ± 1.4	0.0 ± 0.1	1.5	6.1	3/30/100	17:22:35
96	**1058**	**0.65 ± 0.50**	**POS**	**4.7 ± 1.8**	**4.7 ± 0.9**	**10.0**	**6.1**	**3/30/100**	**17:22:53**
97	**1059**	**0.71 ± 0.60**	**POS**	**5.9 ± 1.9**	**5.9 ± 1.0**	**10.0**	**3.7**	**3/30/100**	**17:23:13**
98	1060	0.09 ± 0.12	NEG	0.4 ± 0.7	0.1 ± 0.1	3.1	18.4	3/30/100	17:23:27
99	1061	0.19 ± 0.12	NEG	0.2 ± 0.8	0.2 ± 0.1	2.0	11.0	3/30/100	17:24:24
100	1062	0.11 ± 0.23	NEG	-0.6 ± 1.2	0.1 ± 0.1	6.6	6.1	3/30/100	17:25:24
101	1063	0.08 ± 0.28	NEG	-0.2 ± 1.1	0.1 ± 0.1	3.4	8.6	3/30/100	17:25:43
102	1064	0.14 ± 0.35	NEG	-0.4 ± 0.9	0.1 ± 0.2	5.3	11.0	3/30/100	17:26:08
103	1065	0.06 ± 0.17	NEG	0.0 ± 1.0	0.1 ± 0.1	2.3	8.5	3/30/100	17:26:39
104	1066	0.00 ± 0.10	NEG	-0.6 ± 1.2	0.0 ± 0.1	1.0	6.1	3/30/100	17:27:03
105	**1067**	**0.81 ± 0.50**	**POS**	**1.4 ± 0.4**	**1.4 ± 0.2**	**10.0**	**50.1**	**3/30/100**	**17:27:34**
106	1068	0.39 ± 0.24	NEG	0.9 ± 0.6	0.4 ± 0.1	5.3	20.9	3/30/100	17:29:27
107	**1069**	**0.25 ± 0.16**	**POS**	**1.3 ± 0.4**	**1.2 ± 0.2**	**10.0**	**50.6**	**3/30/100**	**17:30:18**
108	1070	0.29 ± 0.19	NEG	0.7 ± 0.4	0.7 ± 0.2	10.0	50.6	3/30/100	17:32:24
109	1071	0.00 ± 0.10	NEG	-0.2 ± 0.9	0.0 ± 0.1	1.0	6.1	3/30/100	17:34:42
110	1072	0.00 ± 0.10	NEG	-0.6 ± 1.0	0.0 ± 0.1	1.0	6.0	3/30/100	17:35:53
111	1073	0.00 ± 0.10	NEG	0.1 ± 0.9	0.0 ± 0.1	1.0	11.1	3/30/100	17:37:09

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Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
112	1074	0.01 ± 0.17	NEG	-0.3 ± 1.1	0.0 ± 0.1	1.7	6.1	3/30/100	17:37:44
113	1075	0.03 ± 0.11	NEG	-0.7 ± 0.6	0.0 ± 0.1	4.0	20.9	3/30/100	17:38:25
114	1076	0.00 ± 0.10	NEG	-0.7 ± 1.3	0.0 ± 0.1	1.0	6.1	3/30/100	17:39:21
115	1077	0.01 ± 0.10	NEG	0.2 ± 0.8	0.0 ± 0.1	1.0	8.6	3/30/100	17:40:47
116	1078	0.04 ± 0.25	NEG	-0.1 ± 1.0	0.0 ± 0.1	2.8	6.1	3/30/100	17:42:12
117	1079	0.02 ± 0.15	NEG	0.6 ± 0.7	0.0 ± 0.1	2.2	13.5	3/30/100	17:44:08
118	1080	0.01 ± 0.10	NEG	-0.4 ± 1.0	0.0 ± 0.1	3.2	6.1	3/30/100	17:45:26
119	1081	0.03 ± 0.10	NEG	-1.0 ± 1.2	0.0 ± 0.1	5.7	6.1	3/30/100	17:47:46
120	**1082**	**1.09 ± 0.82**	**POS**	**4.2 ± 1.4**	**4.2 ± 0.7**	**10.0**	**6.2**	**3/30/100**	**17:49:16**
121	1083	0.04 ± 0.24	NEG	0.2 ± 0.9	0.0 ± 0.1	2.9	8.6	3/30/100	17:50:54
122	1084	0.10 ± 0.10	NEG	0.2 ± 0.4	0.2 ± 0.2	9.8	47.9	3/30/100	17:55:40
123	1085	0.12 ± 0.10	NEG	0.2 ± 0.4	0.1 ± 0.2	10.0	40.5	3/30/100	17:57:38
124	1086	0.05 ± 0.30	NEG	-0.4 ± 1.1	0.0 ± 0.2	2.6	6.1	3/30/100	18:00:07
125	1087	0.03 ± 0.19	NEG	-0.7 ± 1.1	0.0 ± 0.1	3.1	6.1	3/30/100	18:08:09
126	1088	0.00 ± 0.10	NEG	-0.6 ± 1.1	0.0 ± 0.1	1.0	6.1	3/30/100	18:08:44
127	1089	0.17 ± 0.13	NEG	-0.4 ± 0.6	-0.4 ± 0.3	10.0	20.9	3/30/100	18:09:11
128	1090	0.03 ± 0.15	NEG	-0.4 ± 1.1	0.0 ± 0.1	4.2	6.1	3/30/100	18:10:58
129	1091	0.01 ± 0.15	NEG	-0.1 ± 1.0	0.0 ± 0.1	1.0	6.1	3/30/100	18:11:57
130	1092	0.03 ± 0.27	NEG	0.0 ± 0.9	0.0 ± 0.1	2.3	6.1	3/30/100	18:12:55
131	1093	0.02 ± 0.19	NEG	0.0 ± 0.9	0.0 ± 0.1	2.2	8.6	3/30/100	18:14:01
132	1094	0.03 ± 0.10	NEG	-0.3 ± 0.7	0.0 ± 0.1	5.0	18.4	3/30/100	18:14:51
133	1095	0.06 ± 0.18	NEG	-0.1 ± 1.1	0.1 ± 0.1	5.4	8.6	3/30/100	18:15:36
134	1096	0.14 ± 0.11	NEG	0.0 ± 0.6	0.0 ± 0.3	10.0	25.8	3/30/100	18:17:28
135	1097	0.11 ± 0.10	NEG	-0.1 ± 0.6	-0.1 ± 0.3	10.0	15.9	3/30/100	18:19:09
136	1098	0.08 ± 0.15	NEG	-0.3 ± 1.0	0.1 ± 0.1	7.9	6.1	3/30/100	18:20:13
137	**1099**	**2.08 ± 1.77**	**POS**	**6.0 ± 2.1**	**6.0 ± 1.0**	**10.0**	**3.6**	**3/30/100**	**18:21:10**
138	1100	0.25 ± 0.27	NEG	0.3 ± 0.9	0.3 ± 0.1	4.3	11.0	3/30/100	18:22:02
139	**1101**	**4.15 ± 1.94**	**POS**	**7.2 ± 2.1**	**7.2 ± 1.0**	**10.0**	**3.6**	**3/30/100**	**18:23:20**

Site: Date: 3/30/100
Ranges (NEG<INC<POS): Device PCS

No	XLNo	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec	Date	Time
140	1102	0.36 ± 0.24	NEG	0.5 ± 0.8	0.4 ± 0.1	4.3	15.9	3/30/100	18:24:19
141	**1103**	**3.19 ± 2.91**	**POS**	**6.5 ± 2.2**	**6.5 ± 1.1**	**10.0**	**3.6**	**3/30/100**	**18:25:23**
142	1104	0.19 ± 0.17	NEG	-0.1 ± 0.6	-0.1 ± 0.3	9.2	20.8	3/30/100	18:26:37
143	**1105**	**3.27 ± 2.82**	**POS**	**7.4 ± 2.1**	**7.4 ± 1.1**	**10.0**	**3.6**	**3/30/100**	**18:27:47**
144	1106	0.26 ± 0.16	NEG	-0.2 ± 1.1	0.3 ± 0.1	2.0	8.6	3/30/100	18:29:59
145	1107	0.00 ± 0.10	NEG	0.0 ± 1.0	0.0 ± 0.1	1.0	6.2	3/30/100	18:32:14
146	1108	0.01 ± 0.10	NEG	0.3 ± 0.9	0.0 ± 0.1	1.3	15.5	3/30/100	18:33:40
147	1109	0.00 ± 0.10	NEG	0.5 ± 0.8	0.0 ± 0.1	1.0	11.1	3/30/100	18:34:25

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Site: Ranges (NEG<INC<POS): Device PCS

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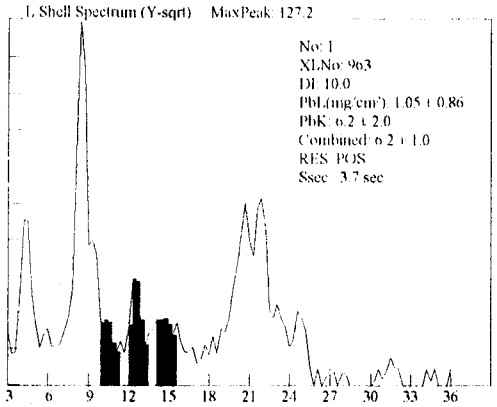

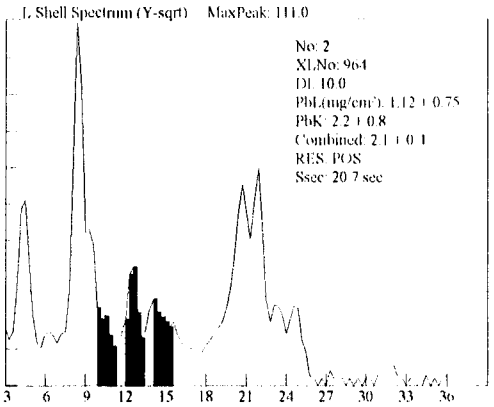

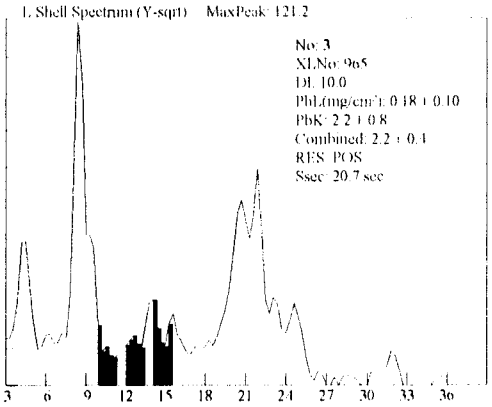

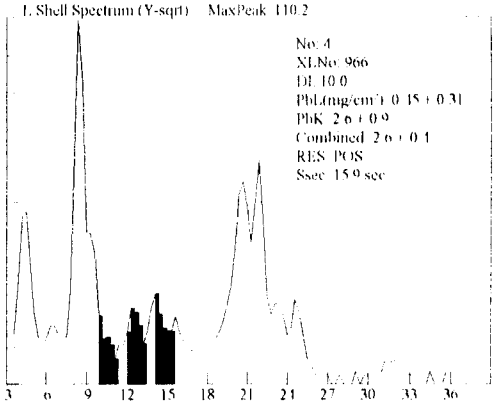

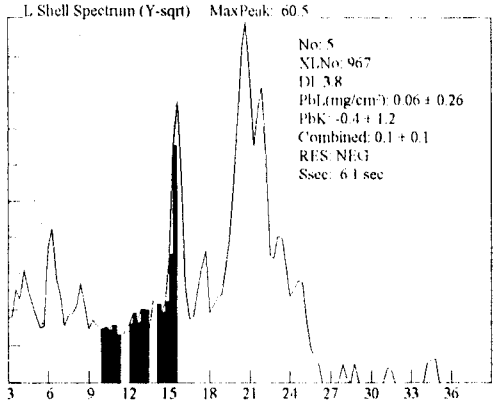

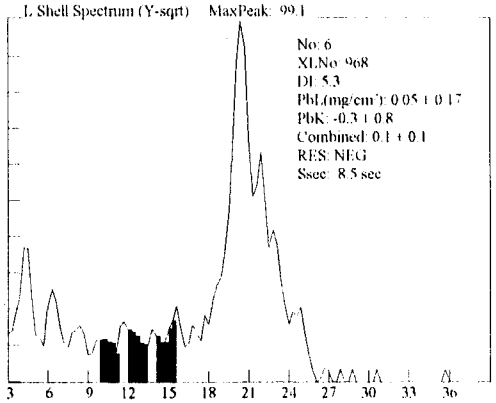

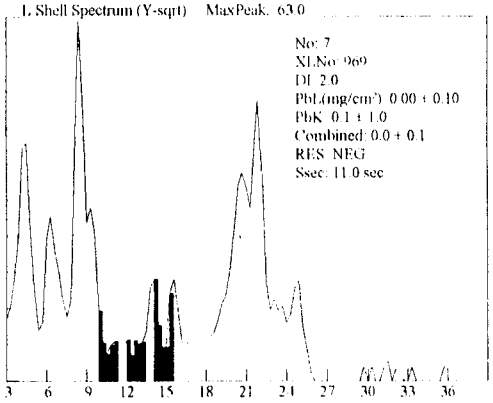

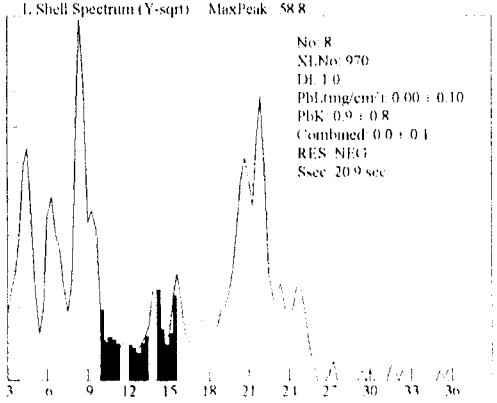

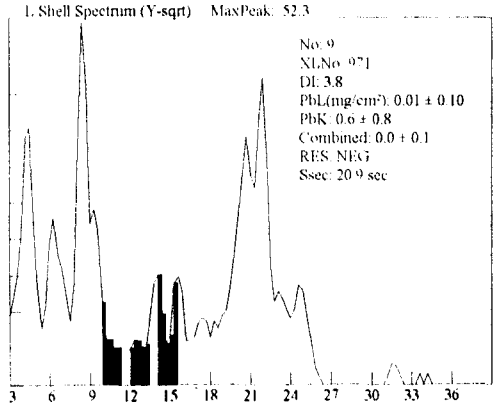

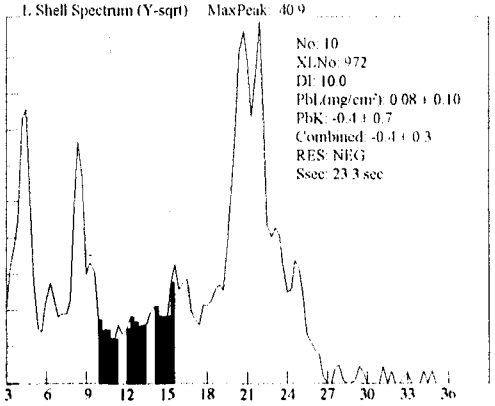

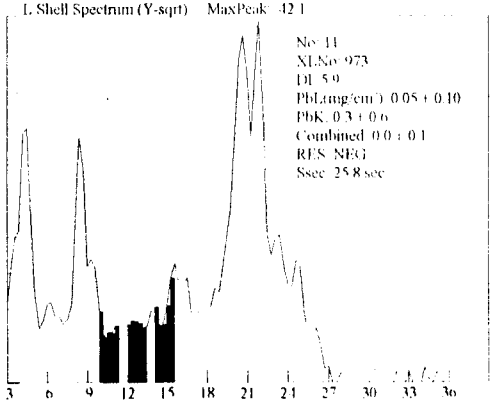

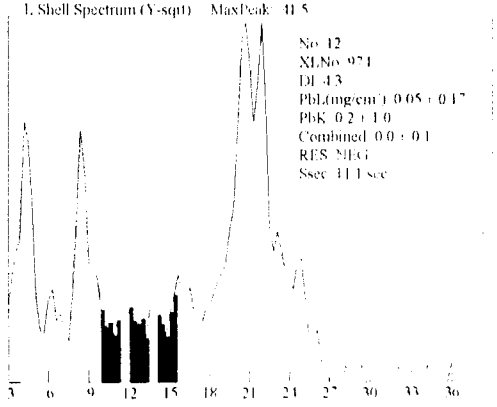

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Site: Ranges (NEG<INC<POS): Device PCS

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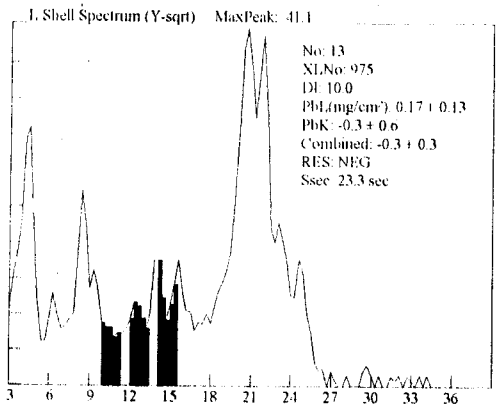

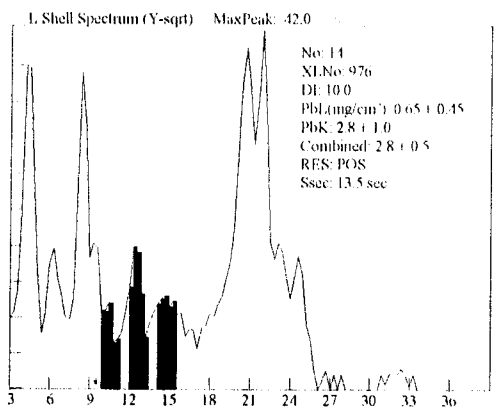

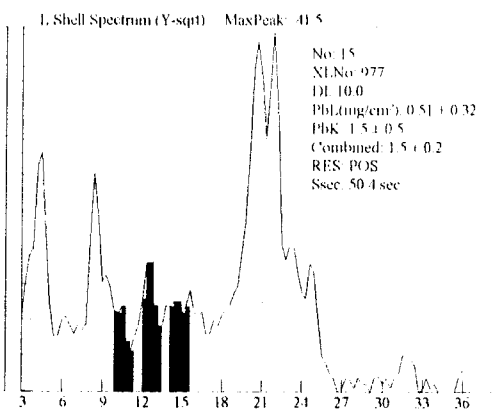

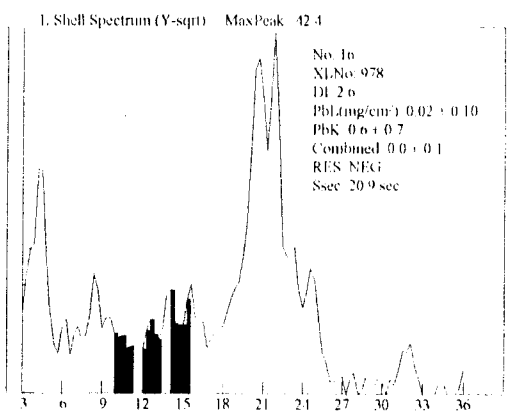

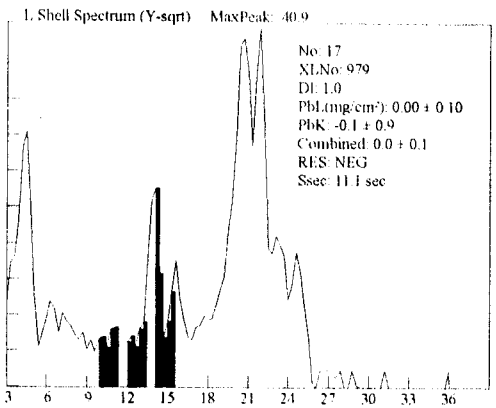

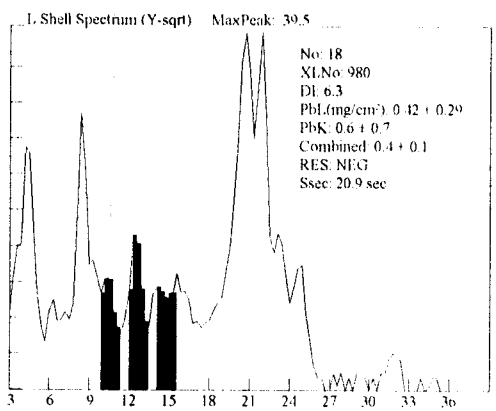

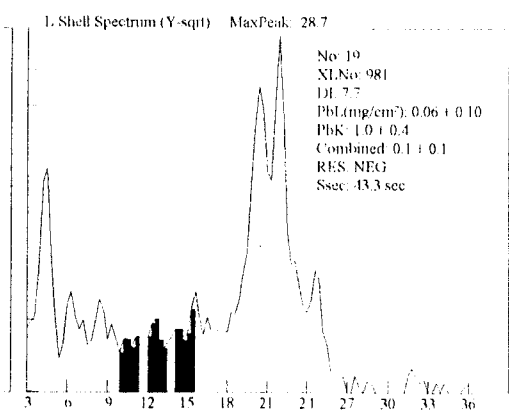

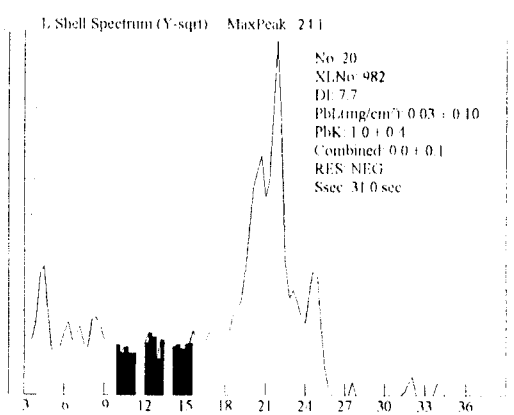

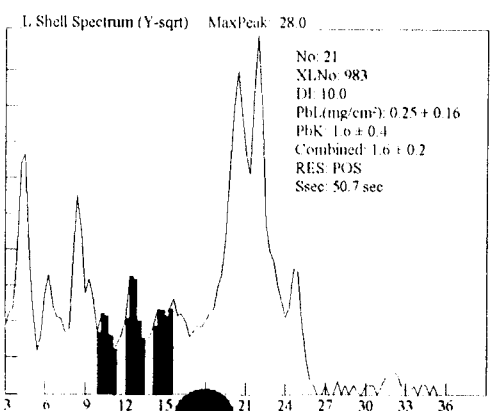

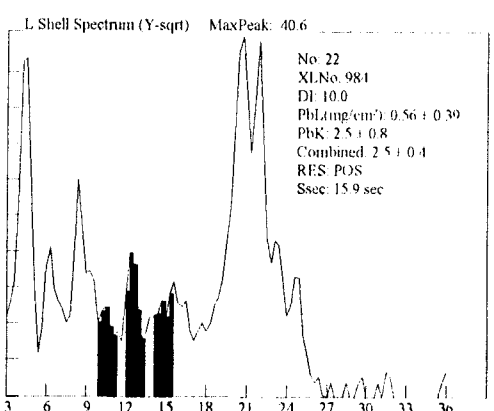

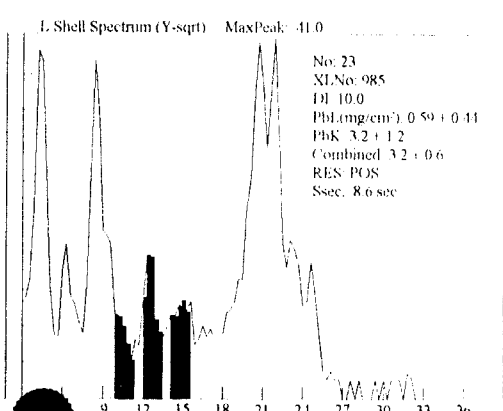

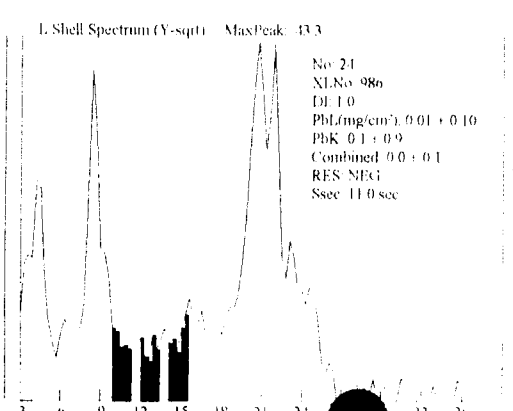

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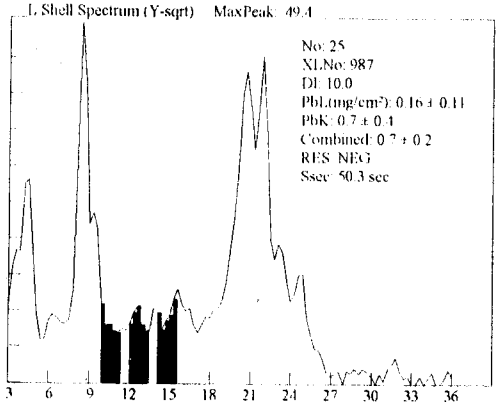

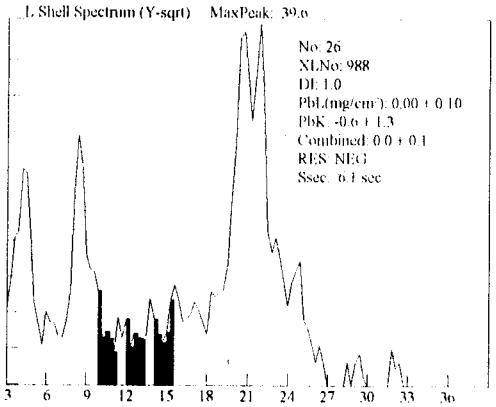

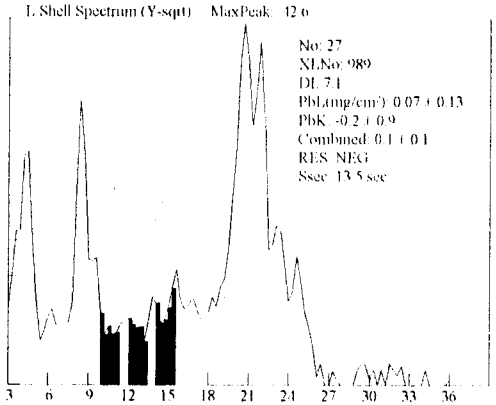

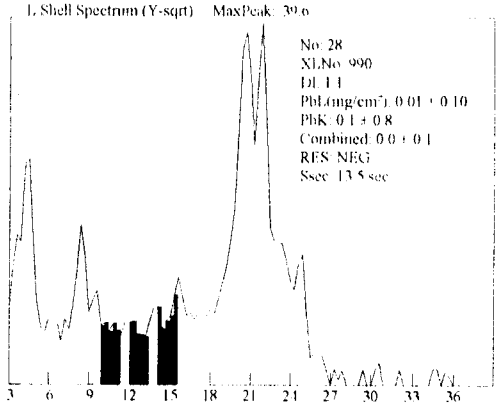

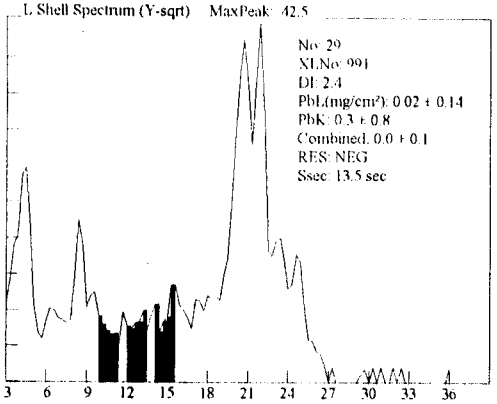

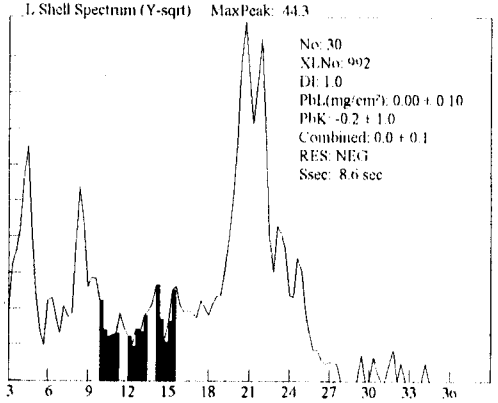

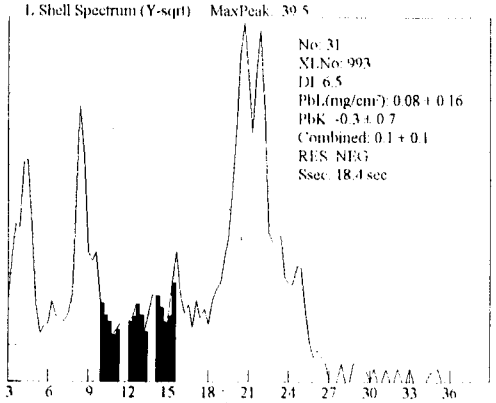

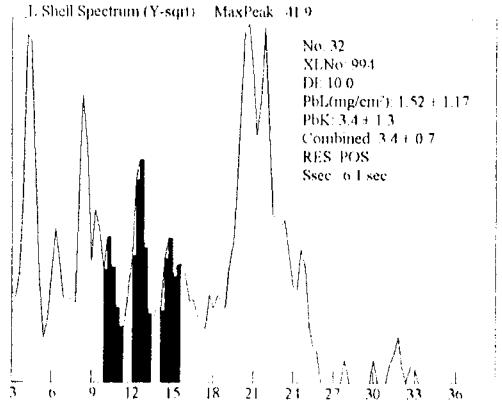

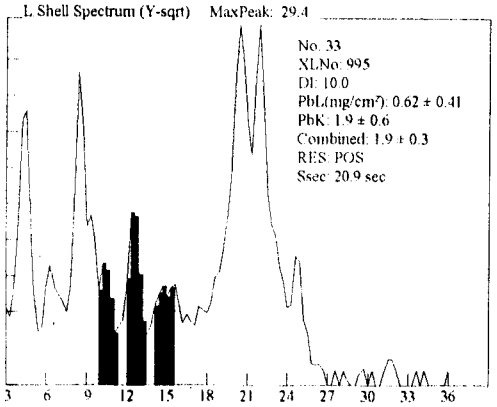

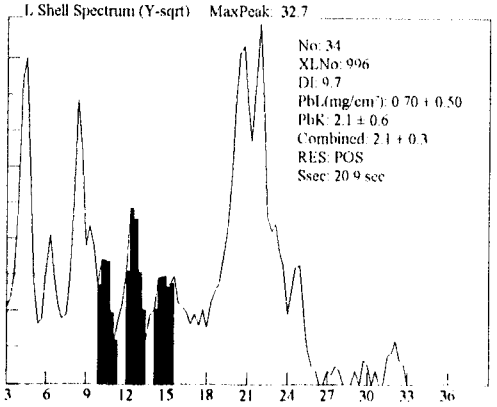

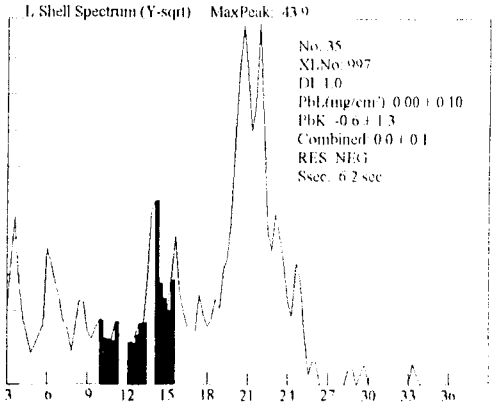

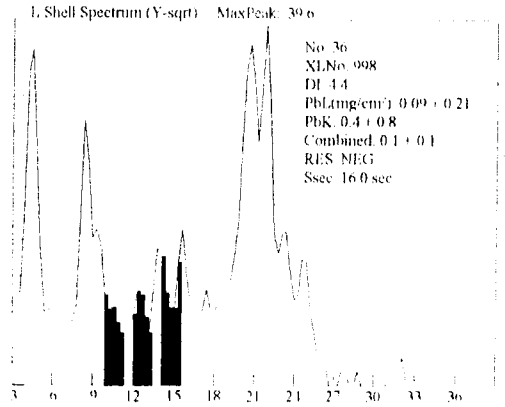

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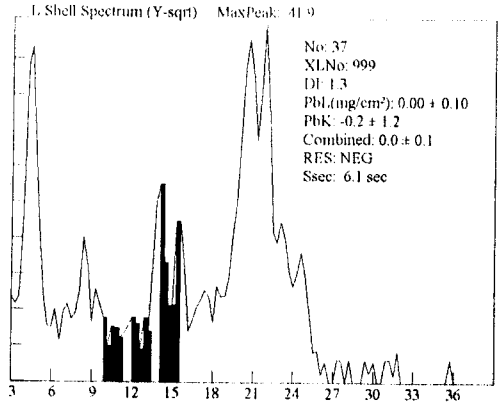

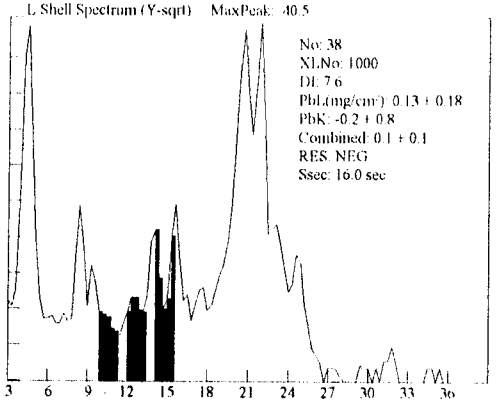

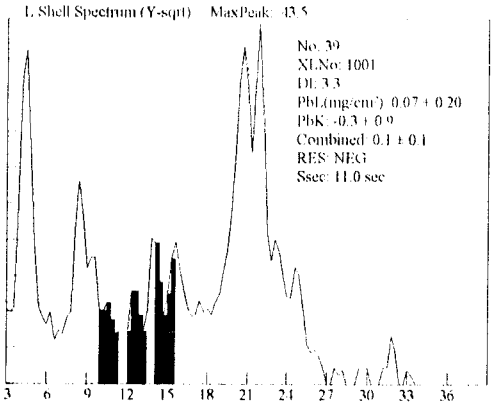

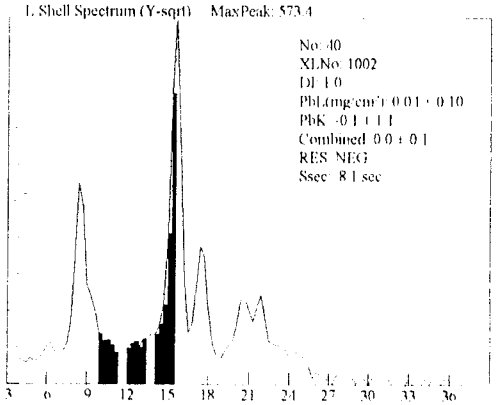

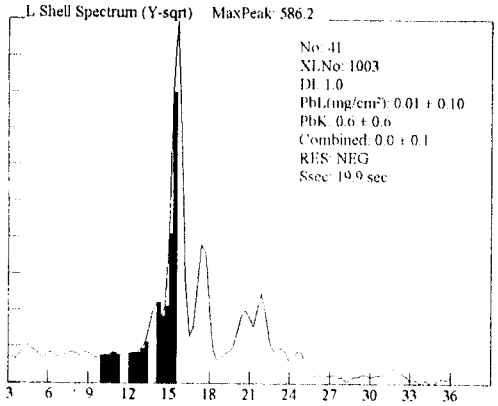

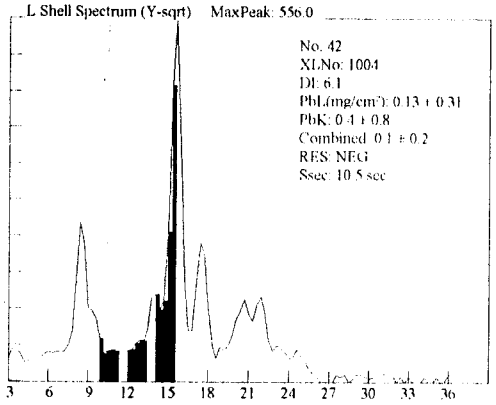

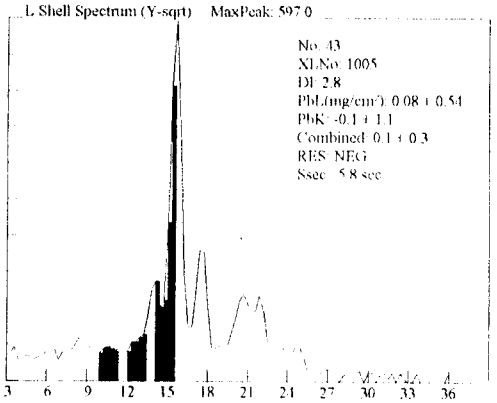

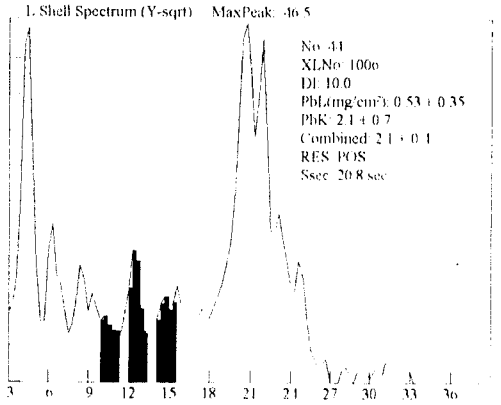

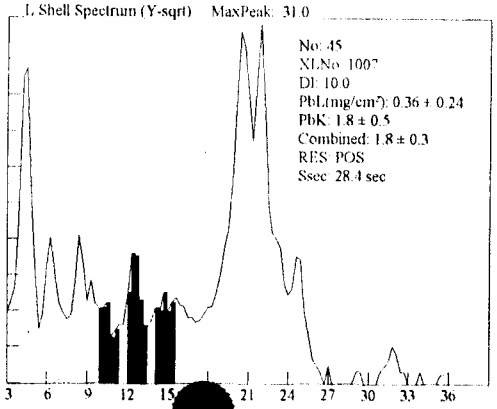

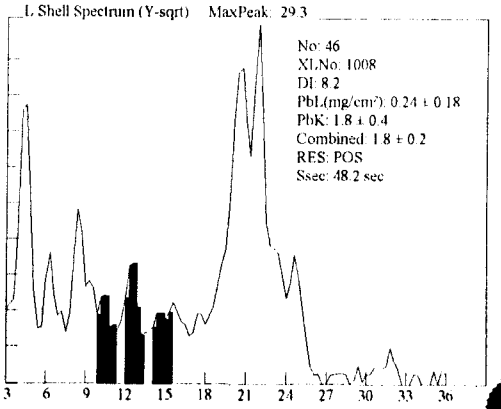

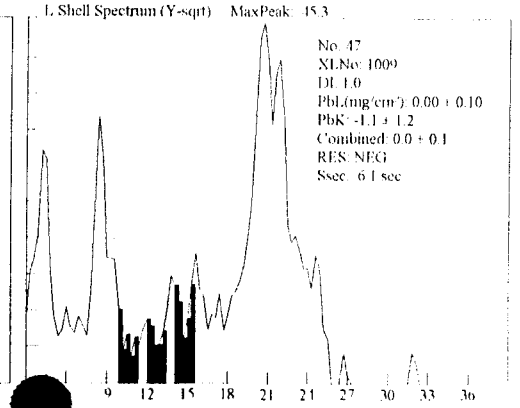

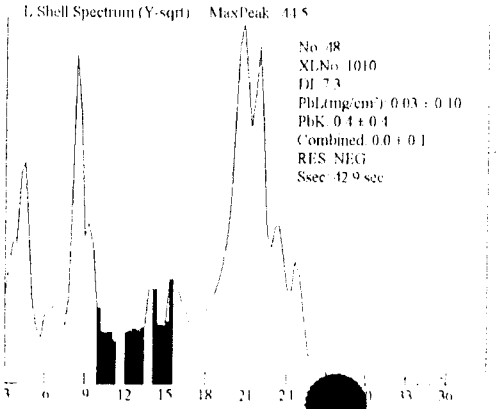

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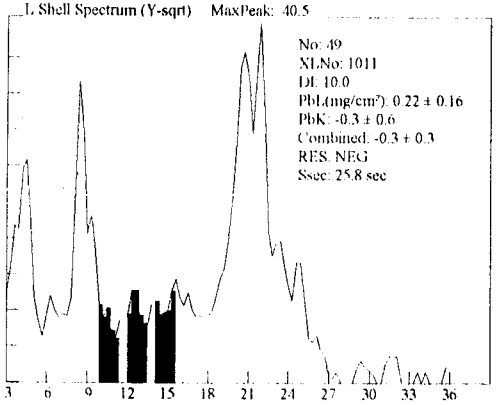

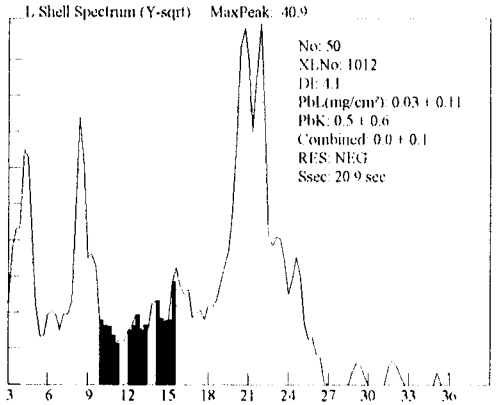

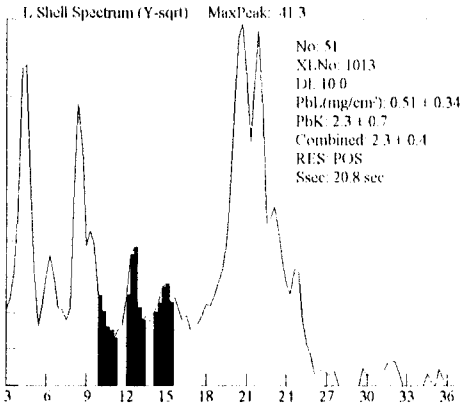

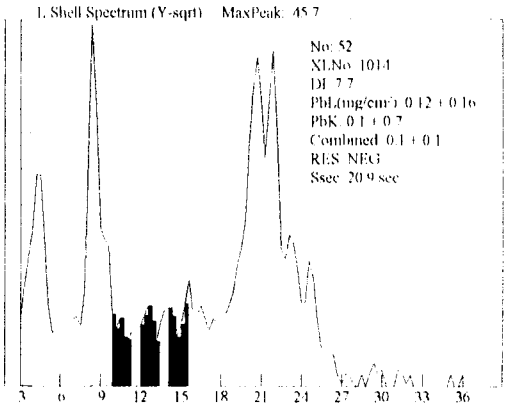

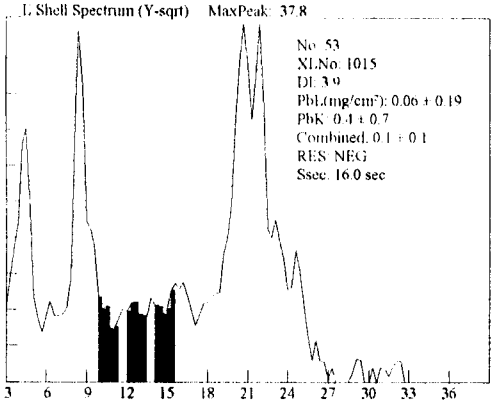

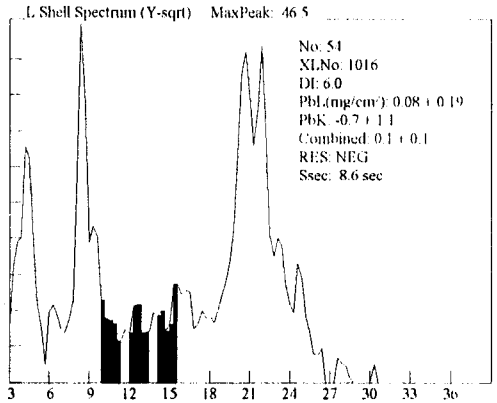

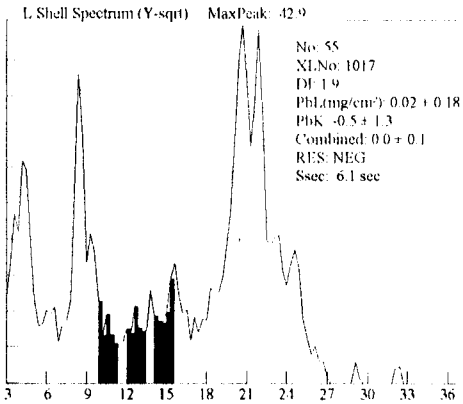

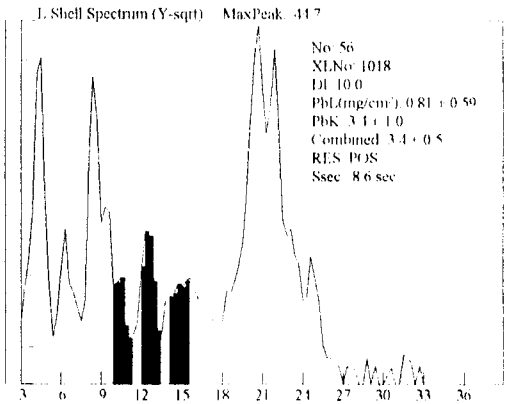

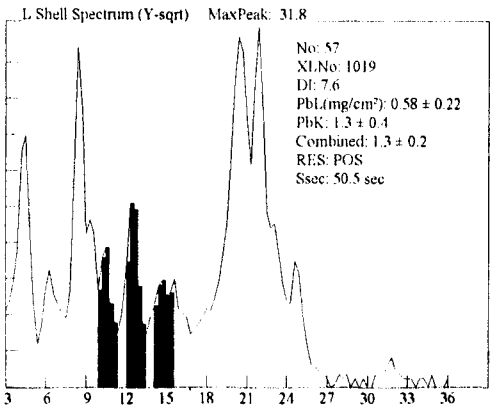

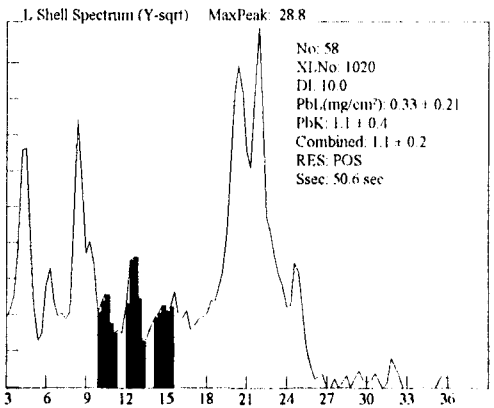

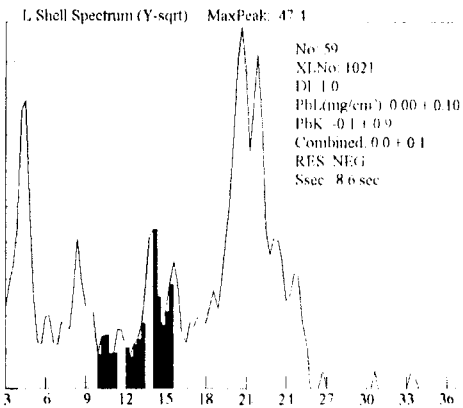

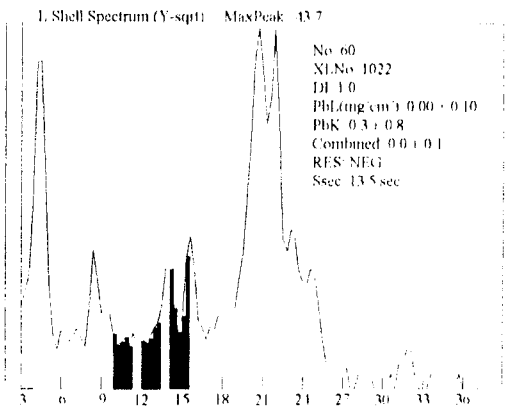

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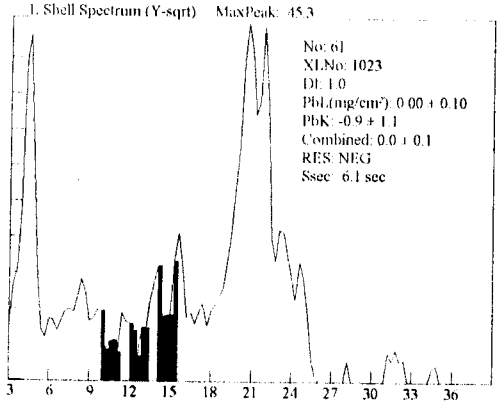

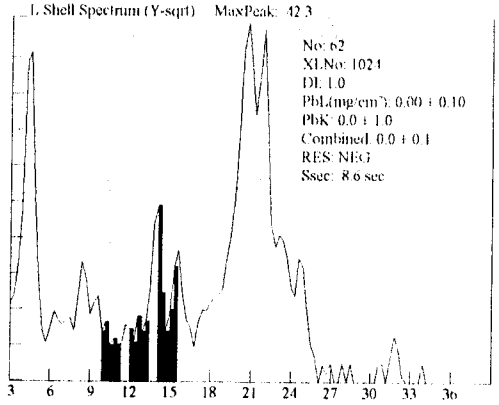

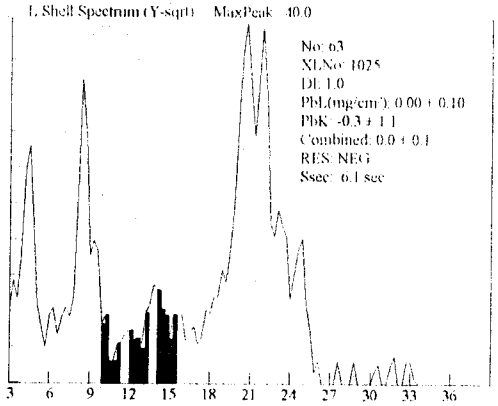

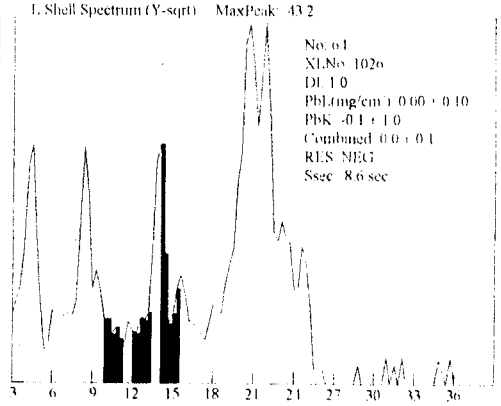

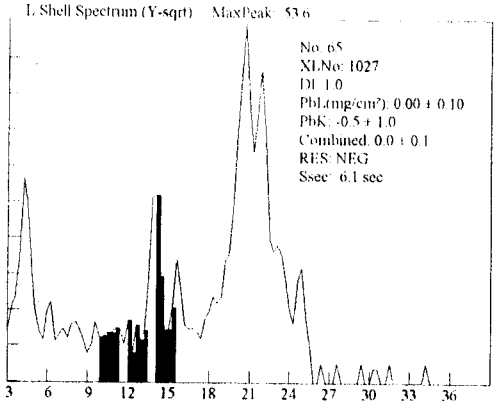

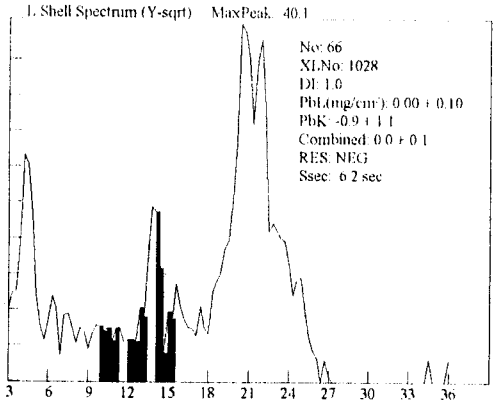

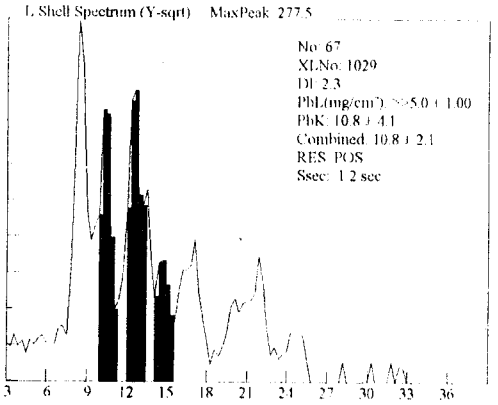

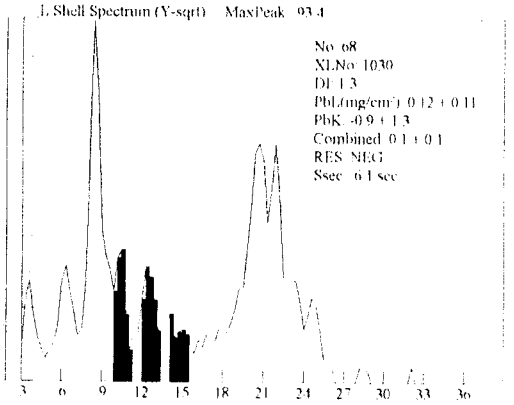

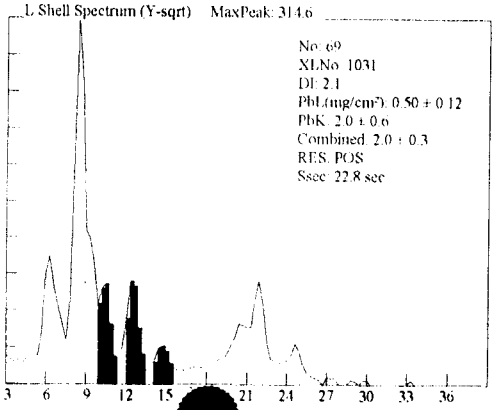

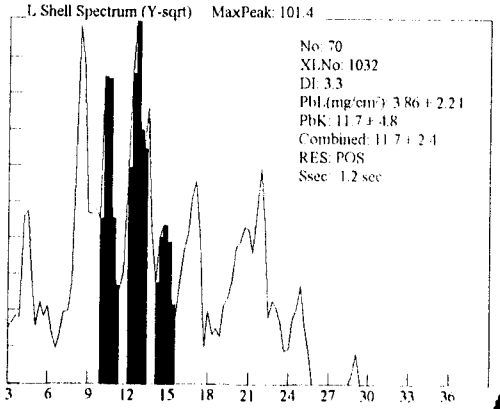

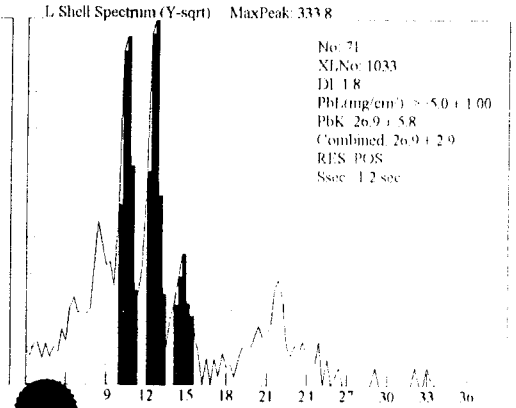

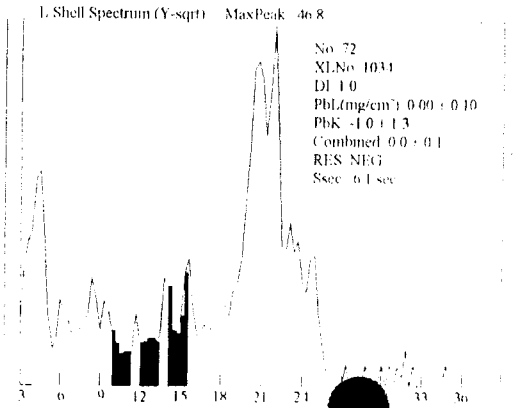

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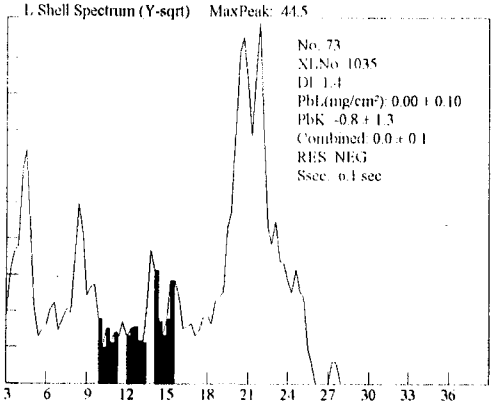

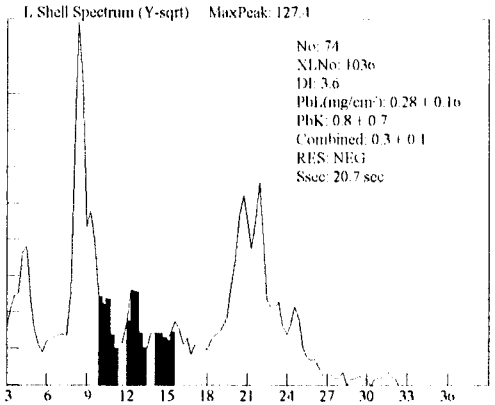

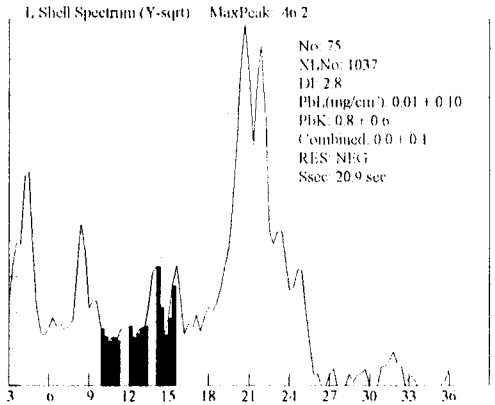

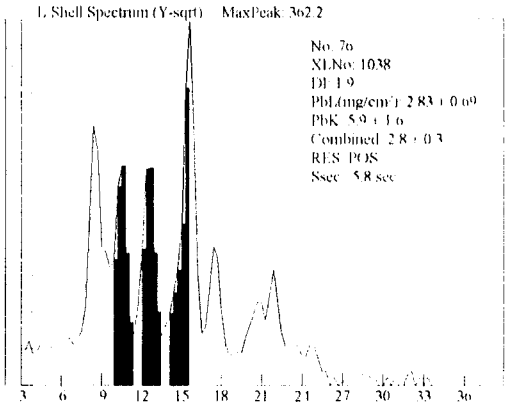

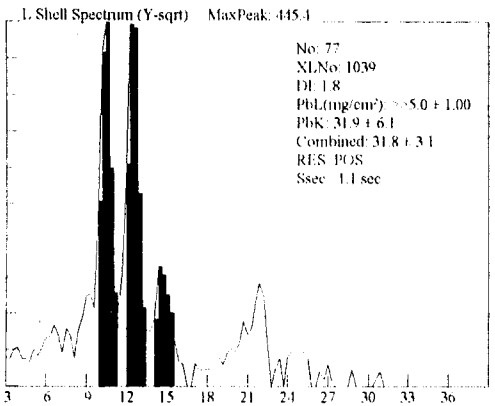

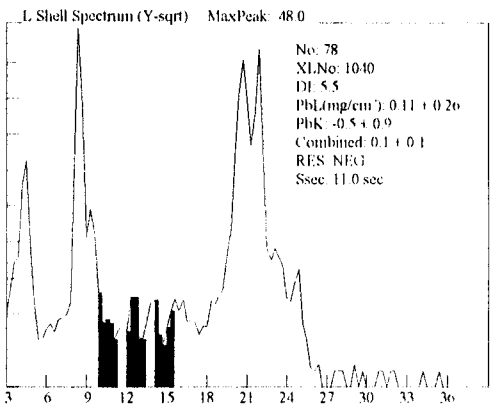

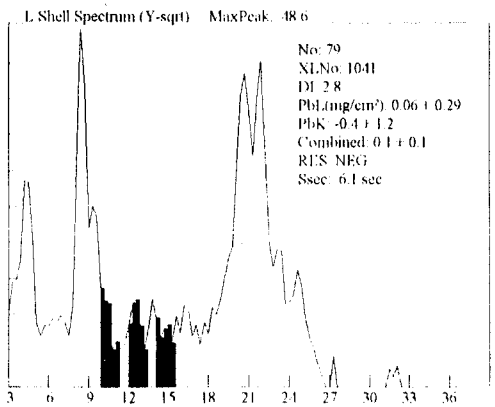

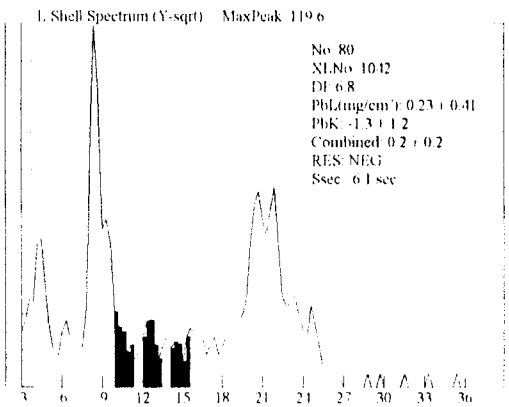

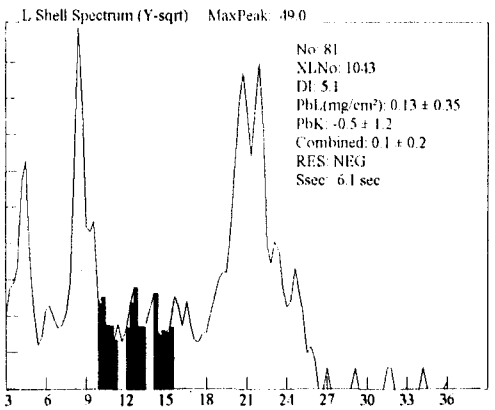

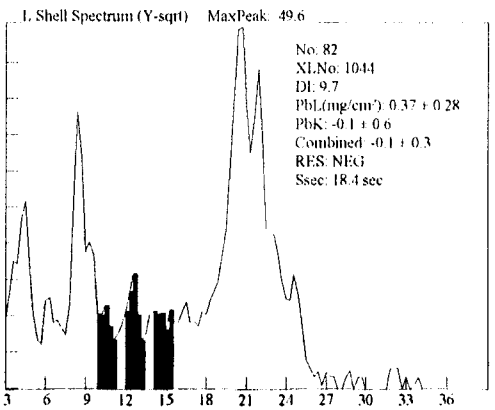

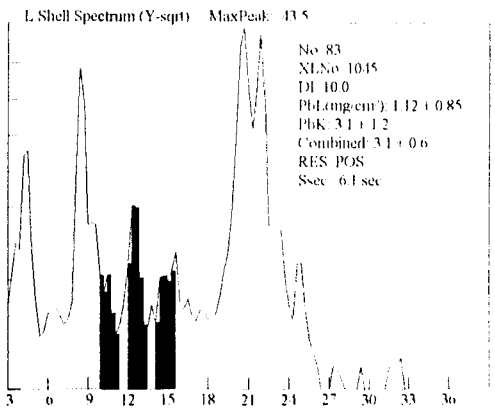

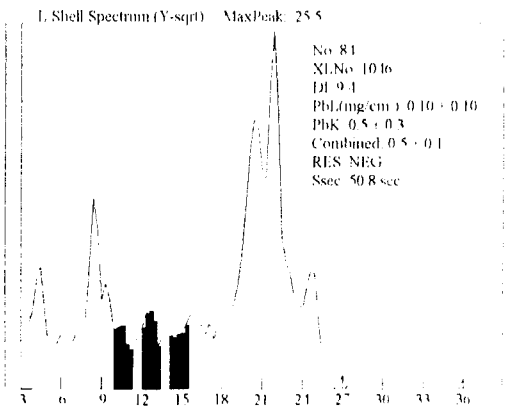

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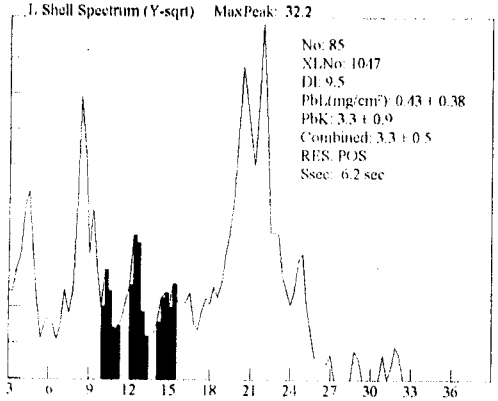

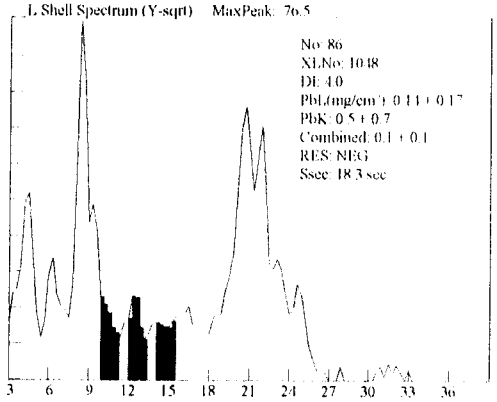

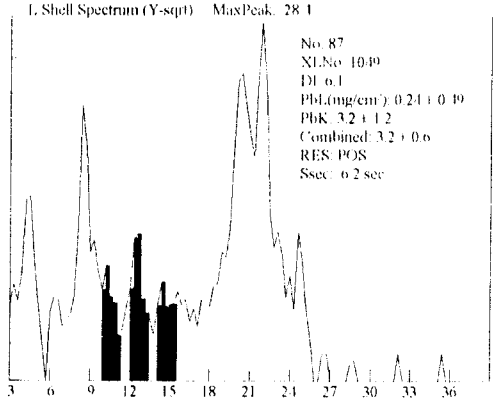

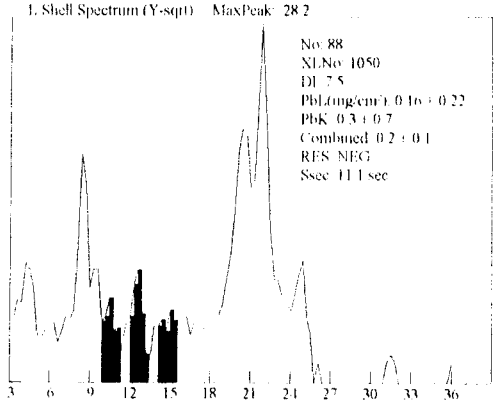

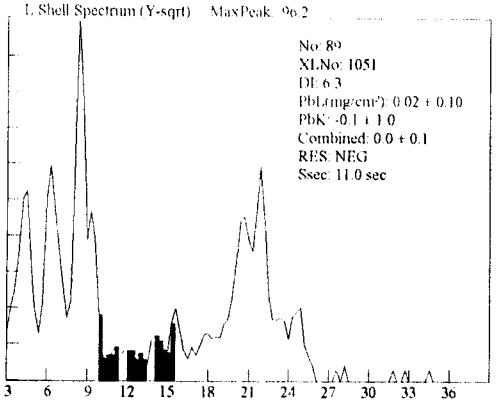

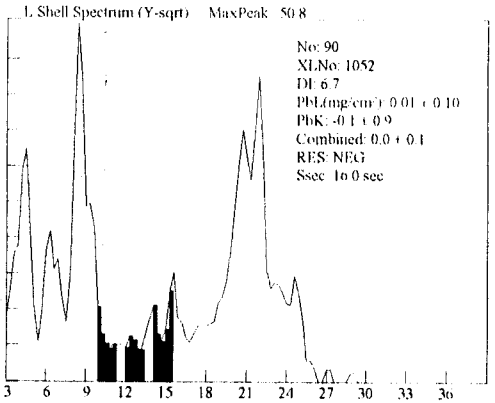

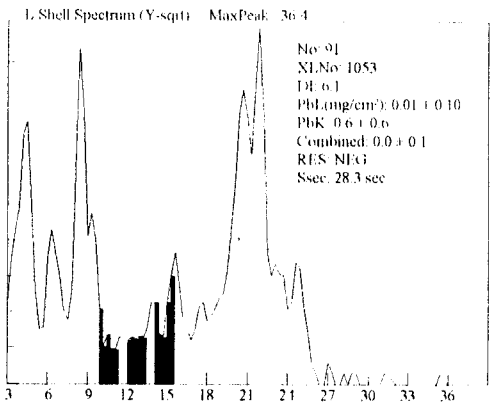

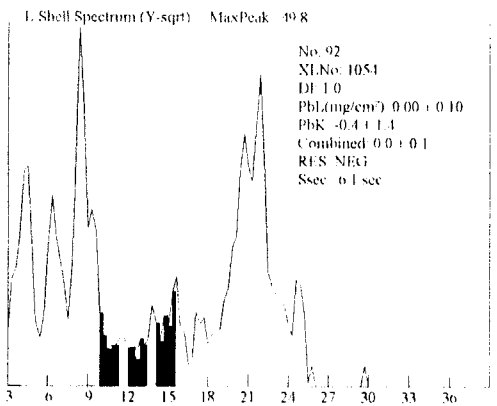

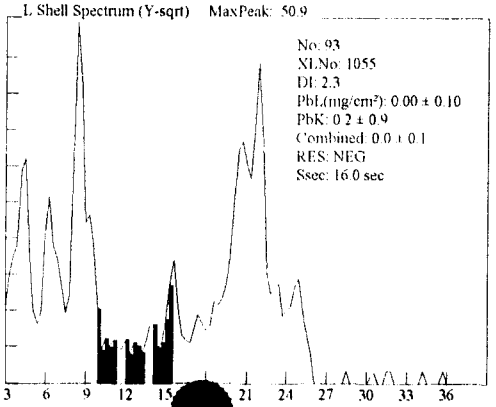

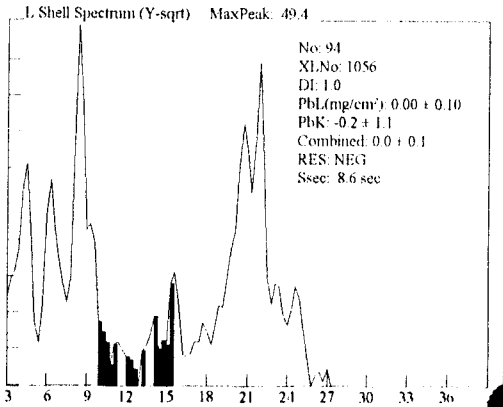

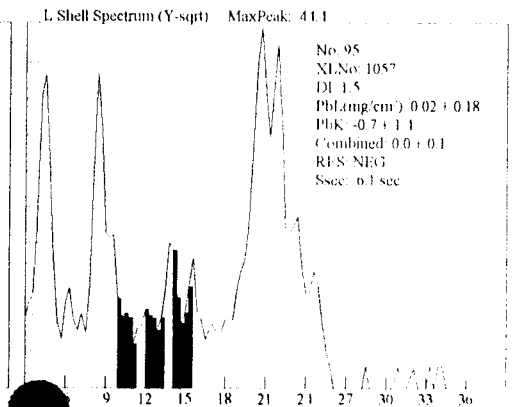

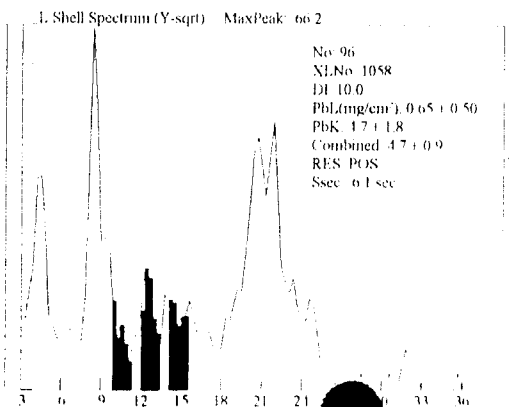

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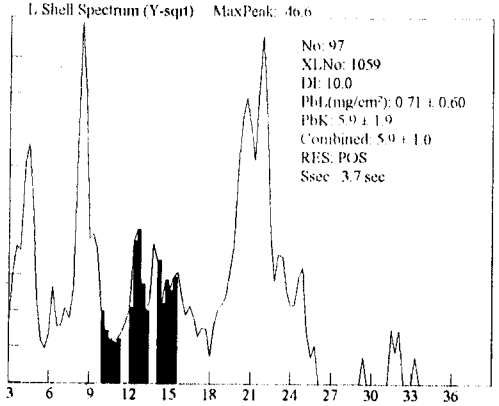

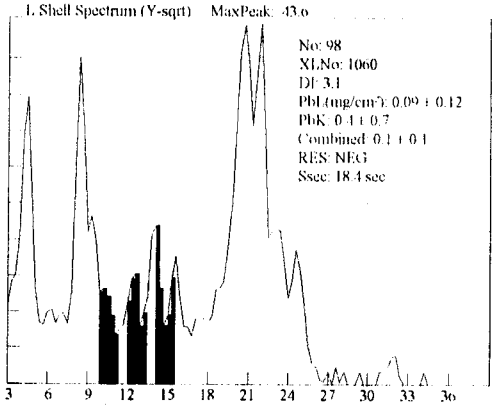

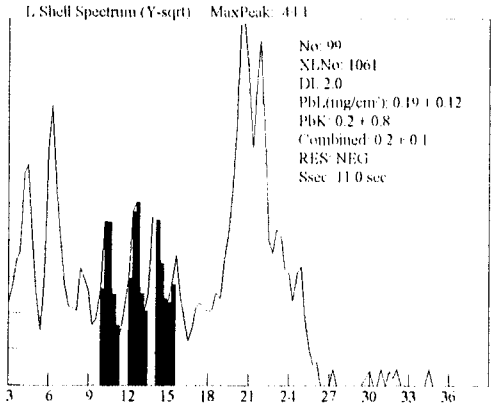

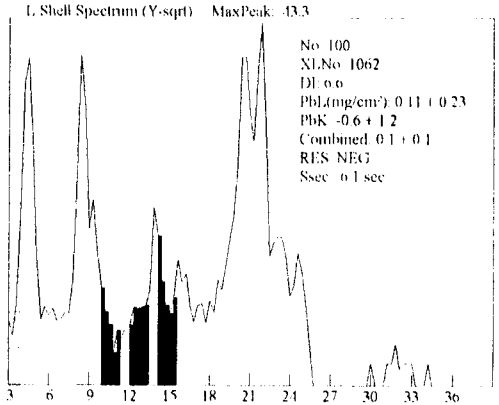

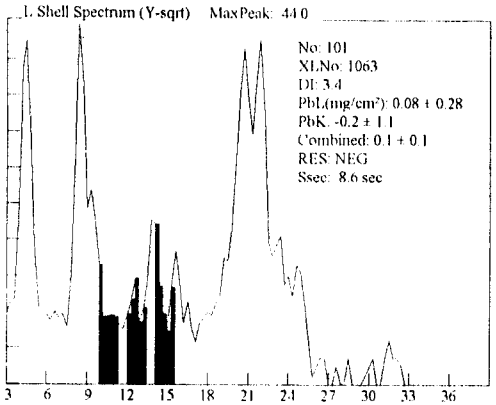

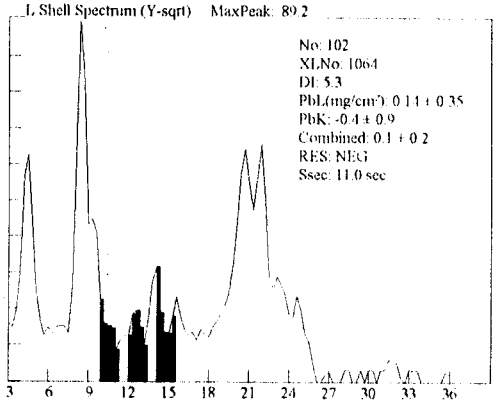

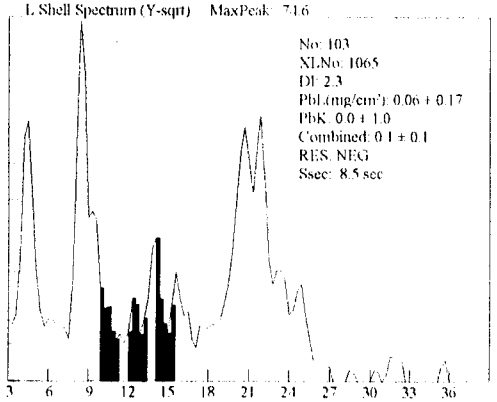

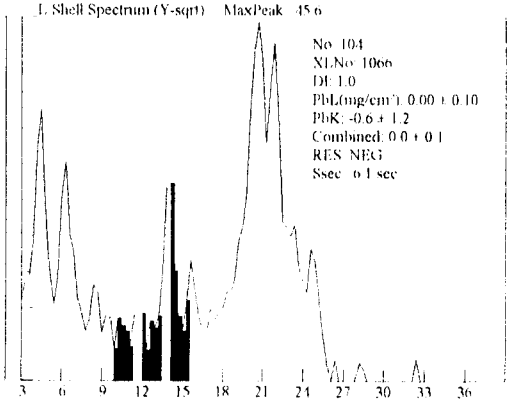

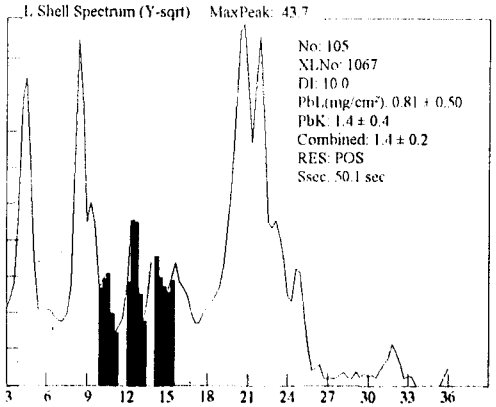

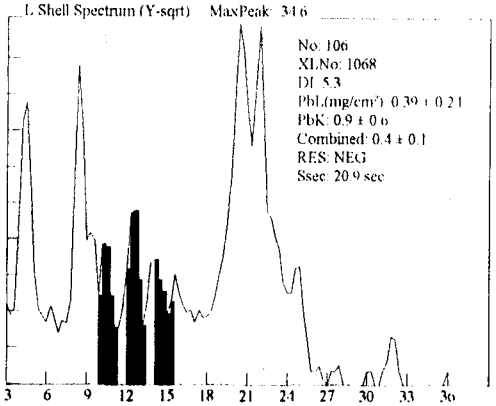

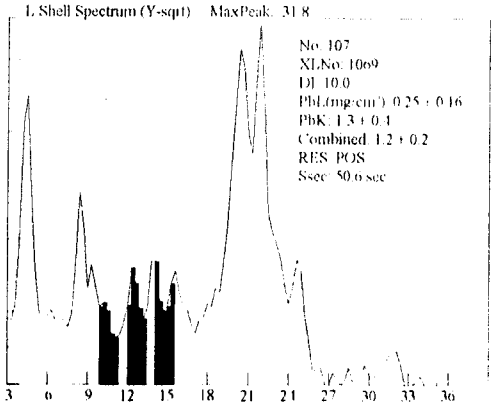

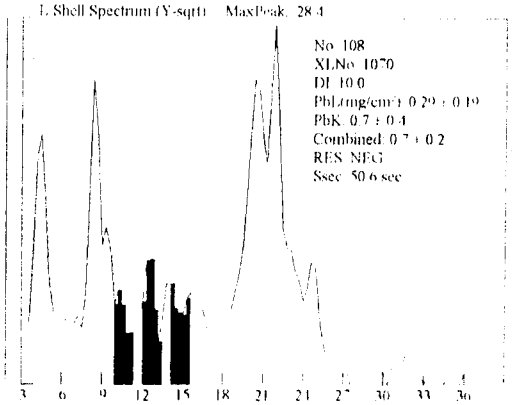

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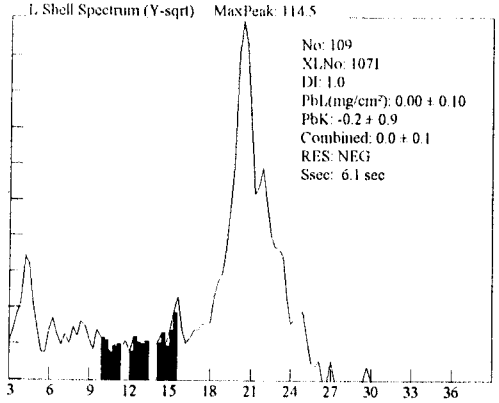

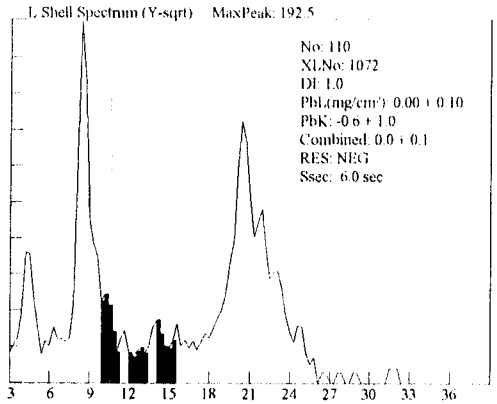

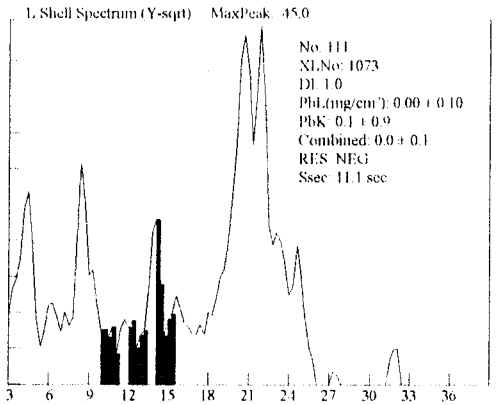

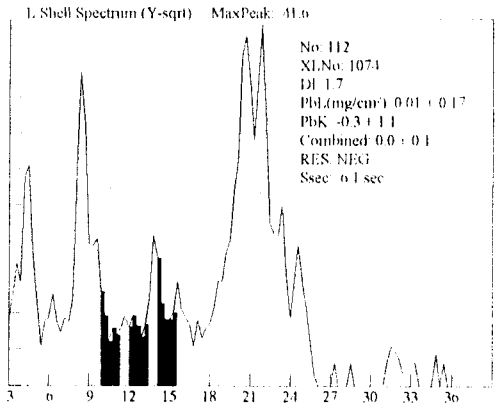

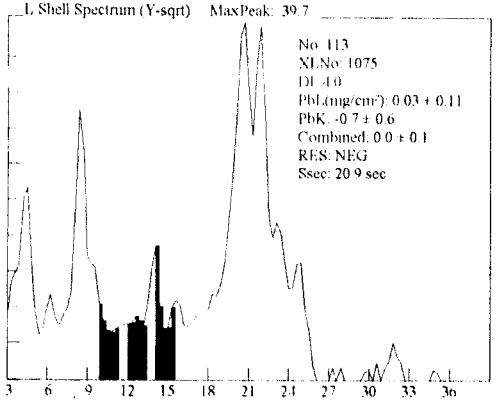

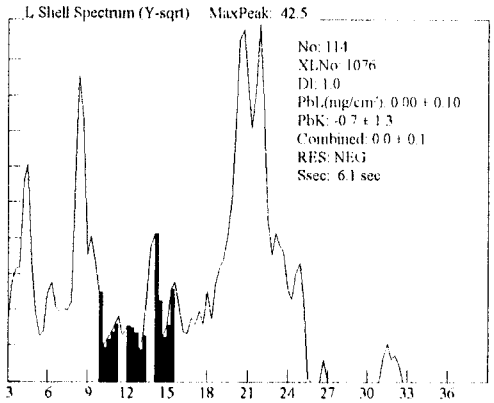

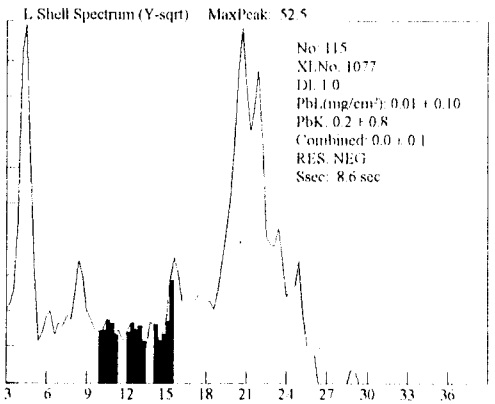

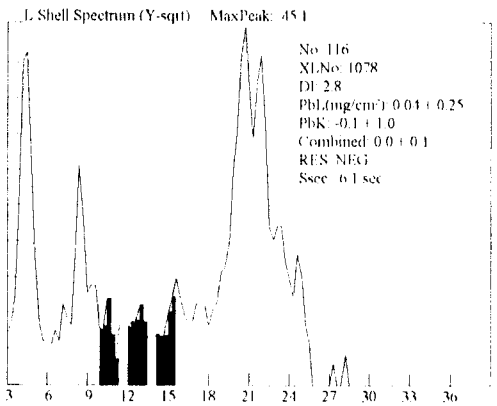

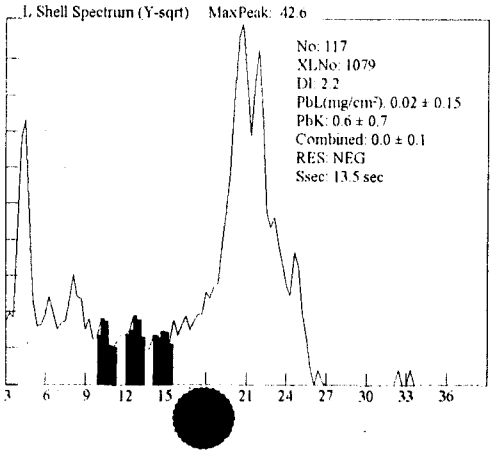

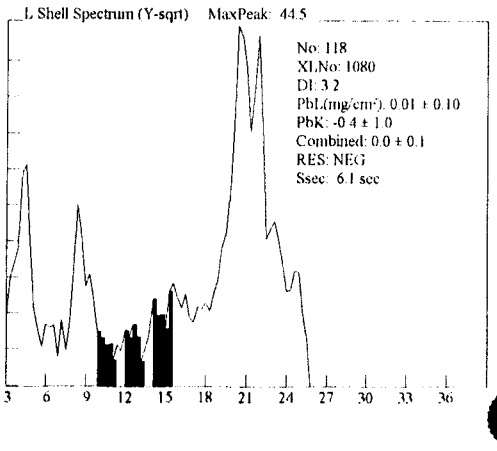

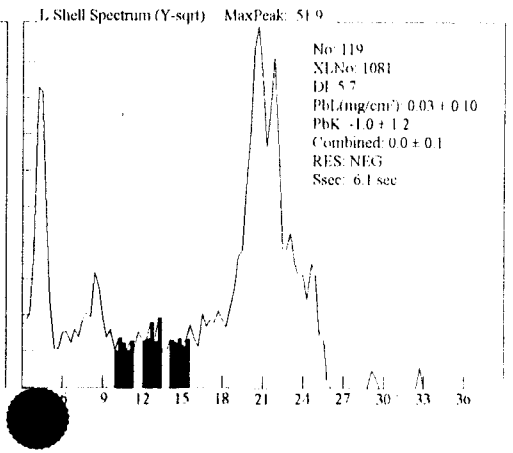

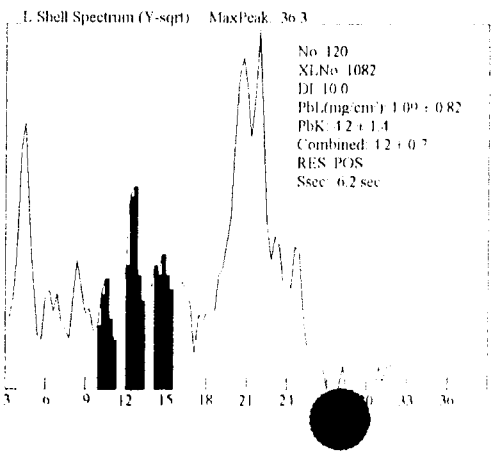

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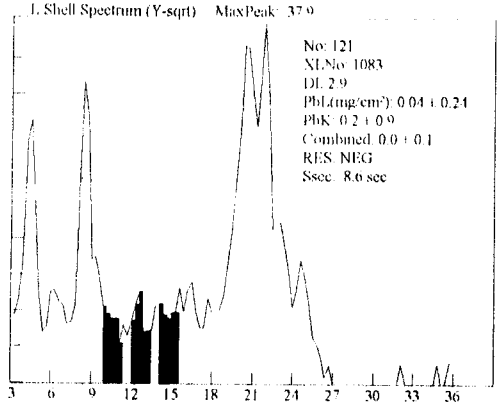

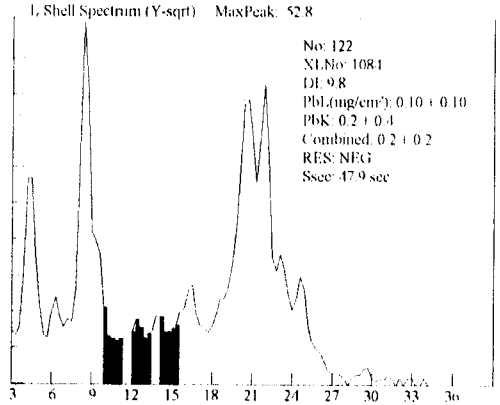

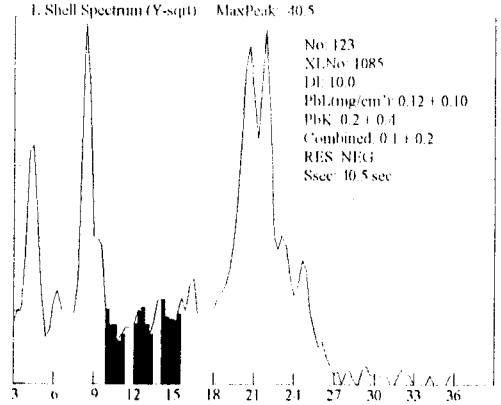

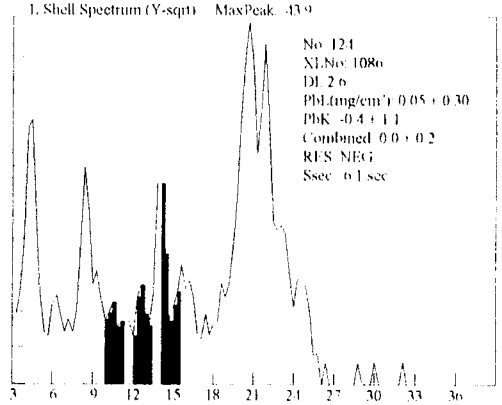

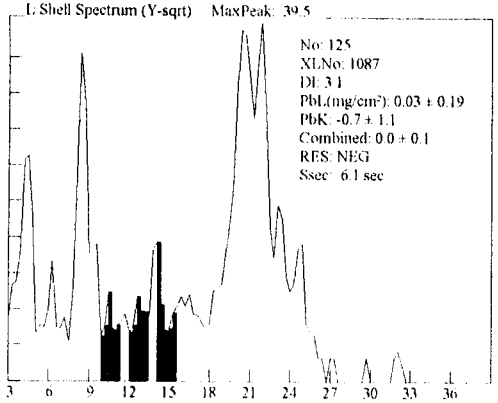

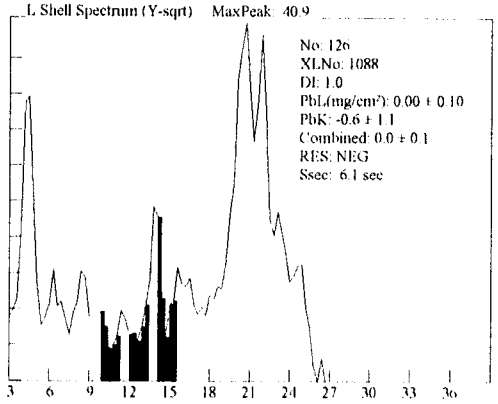

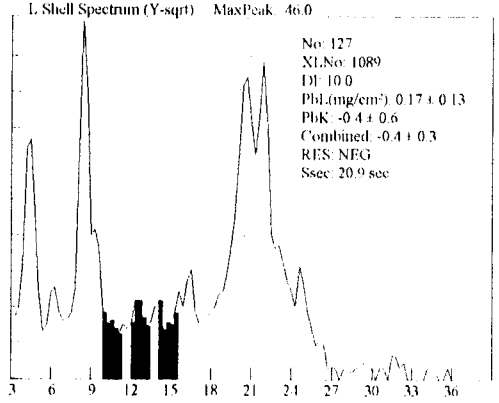

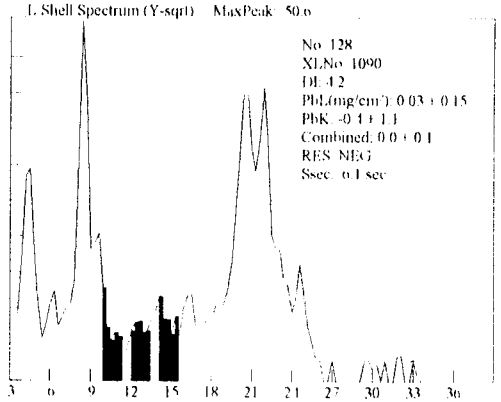

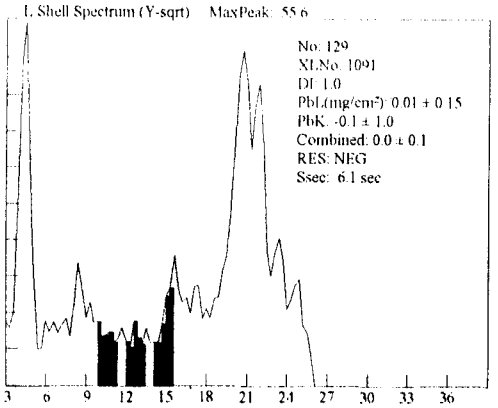

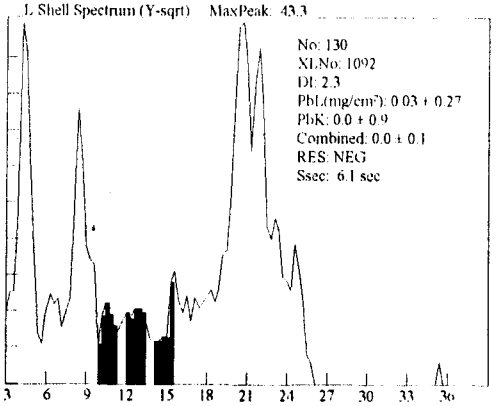

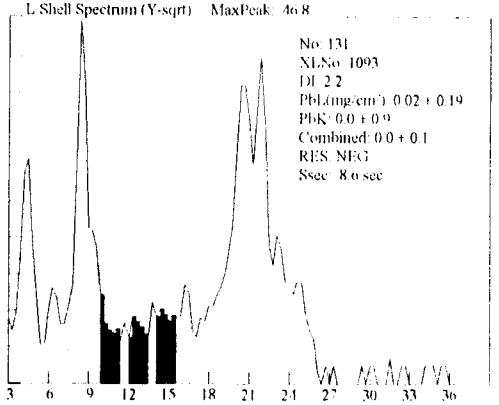

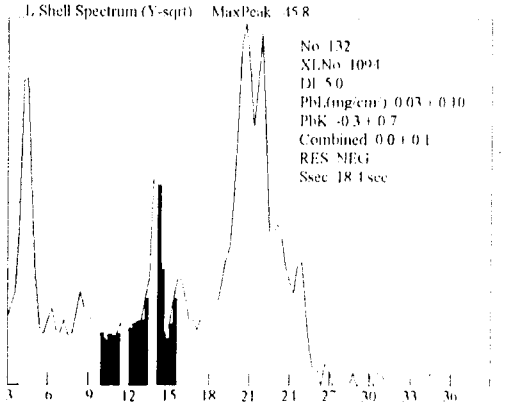

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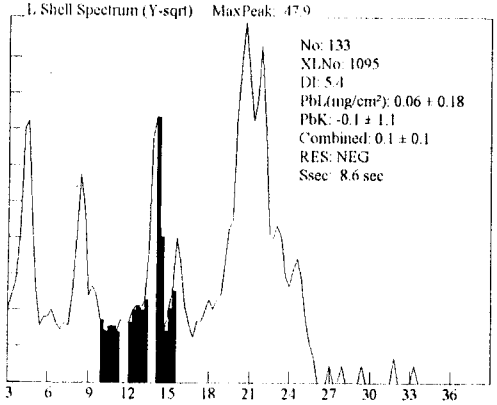

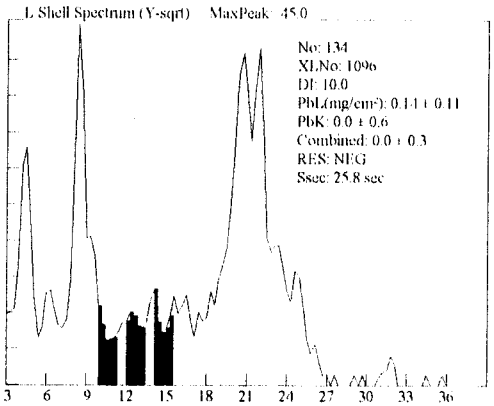

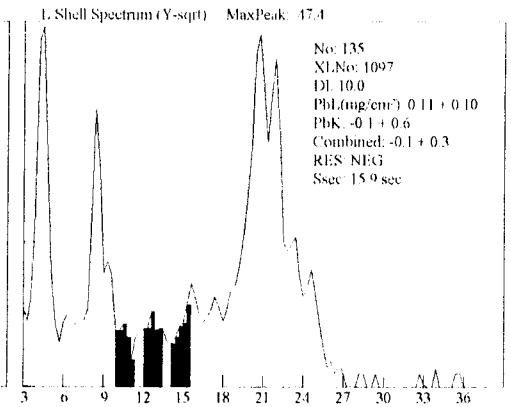

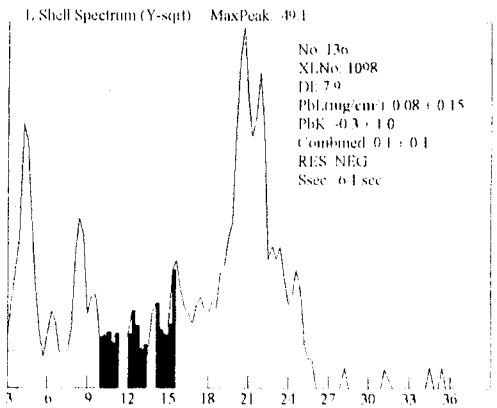

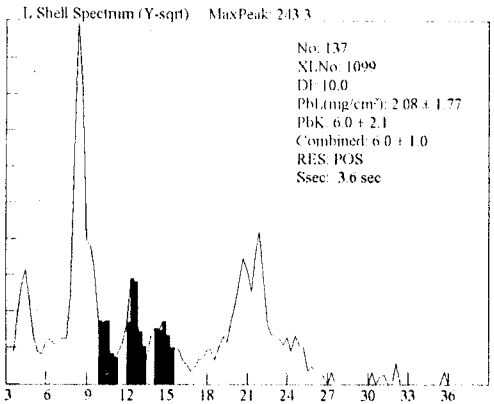

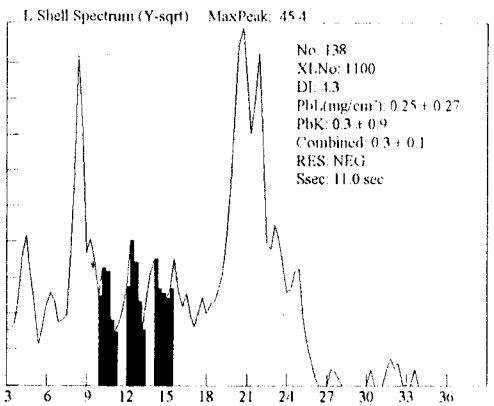

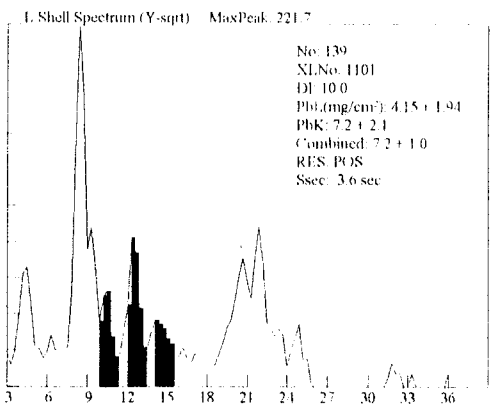

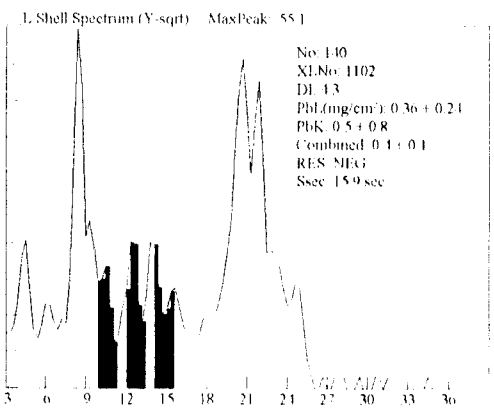

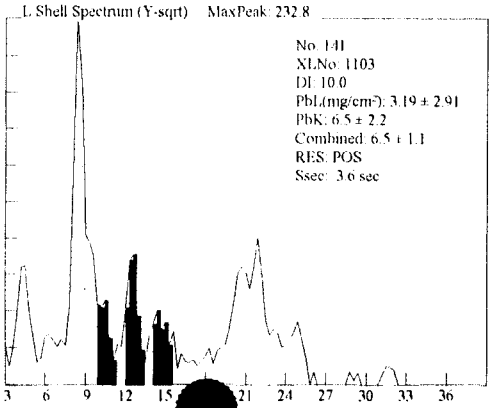

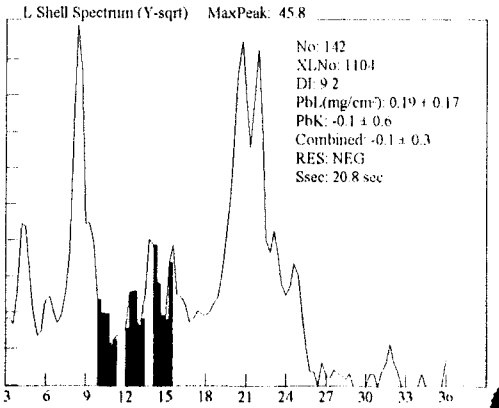

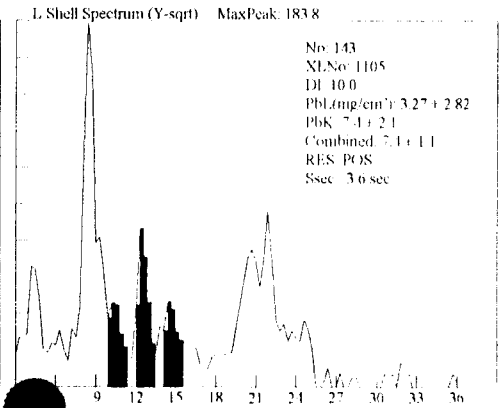

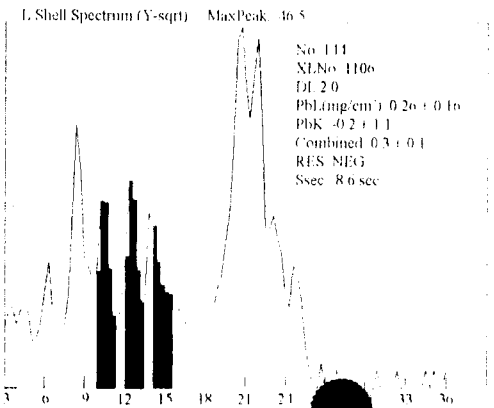

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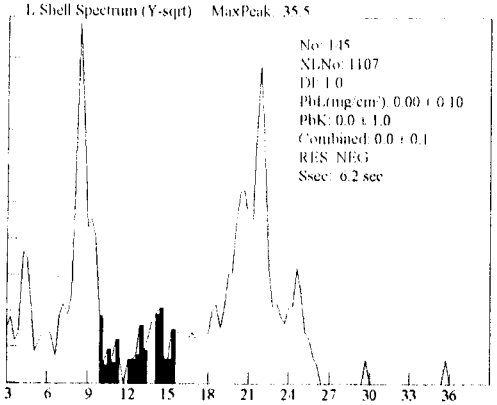

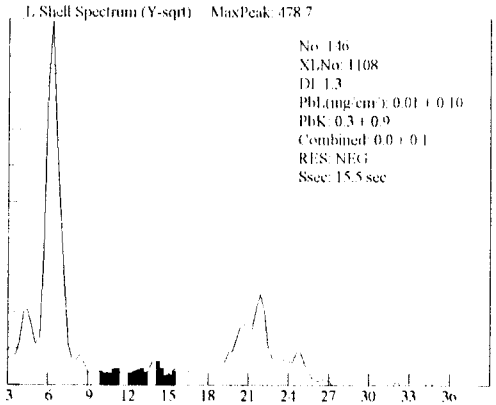

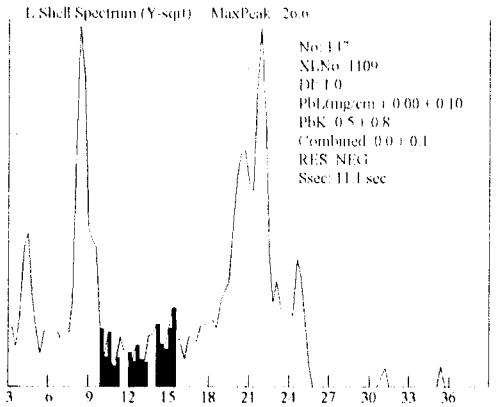

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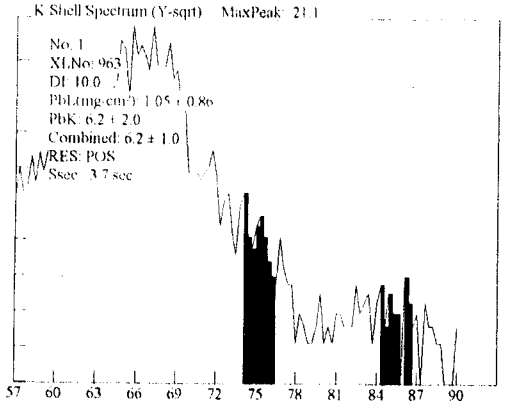

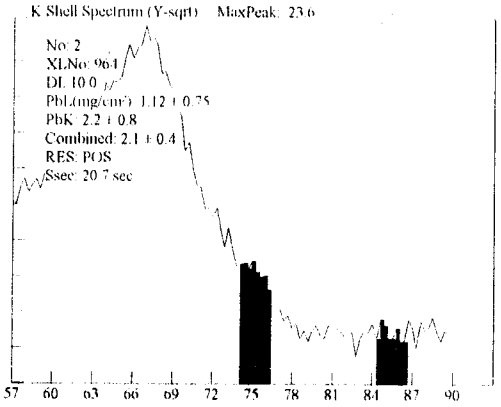

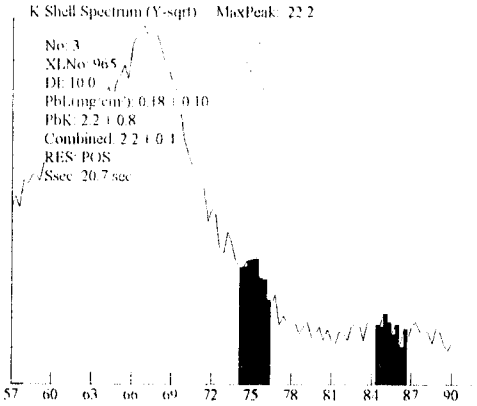

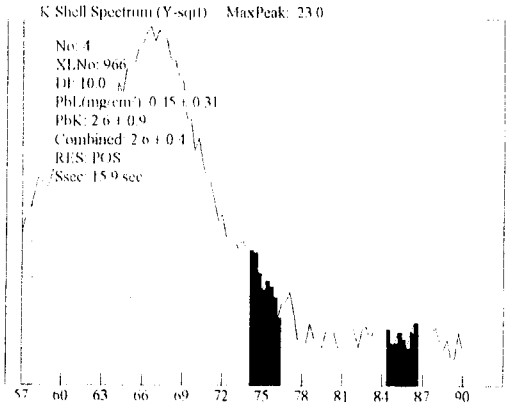

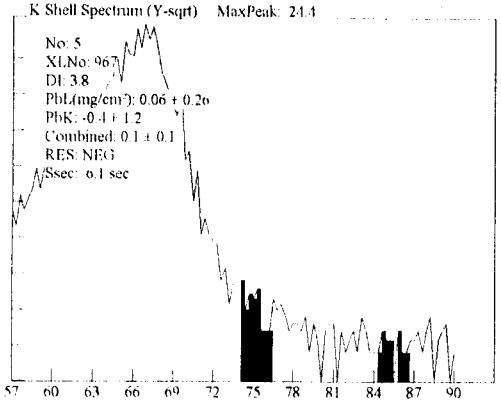

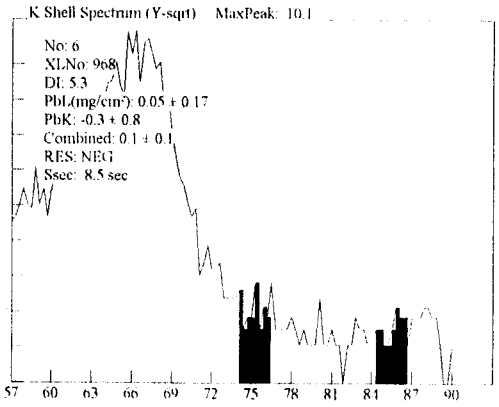

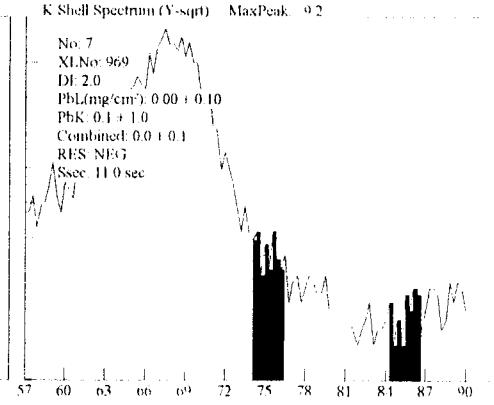

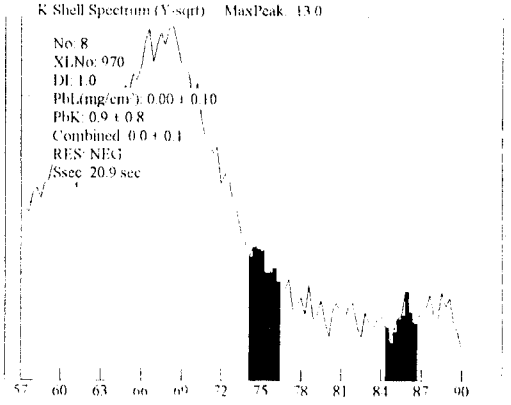

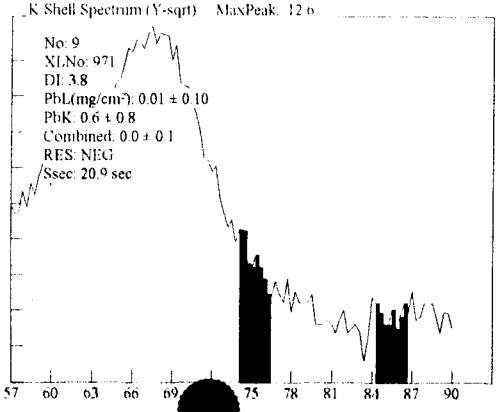

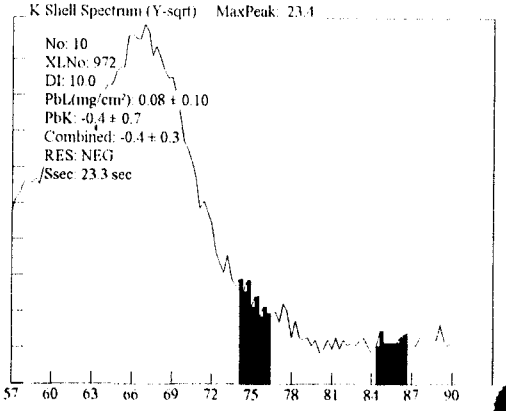

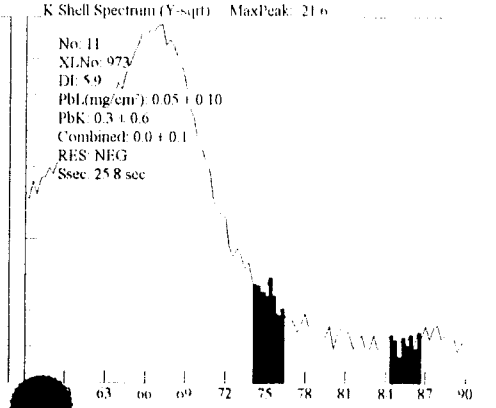

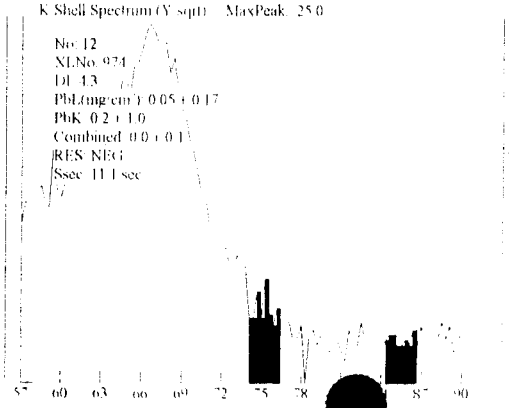

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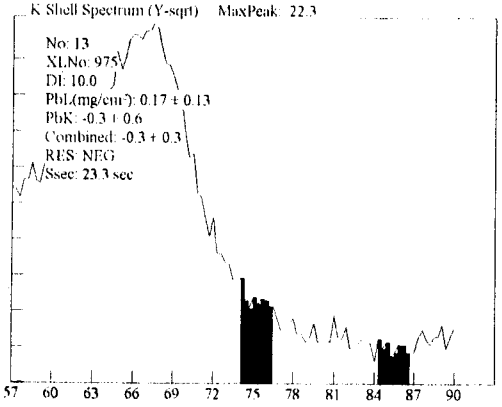

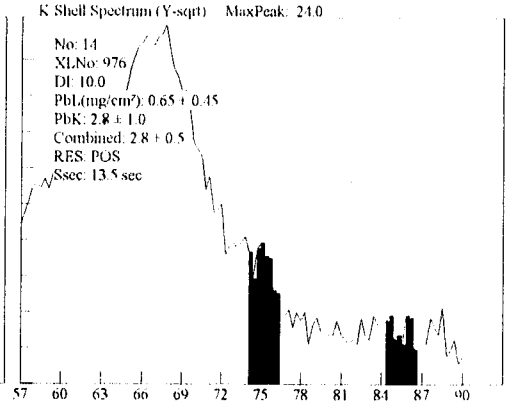

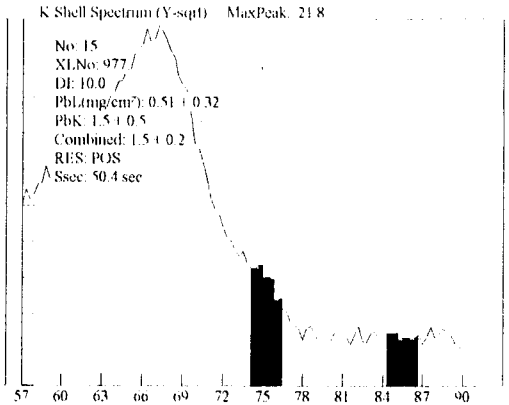

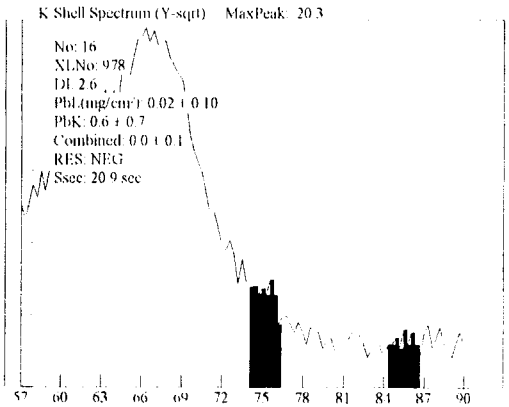

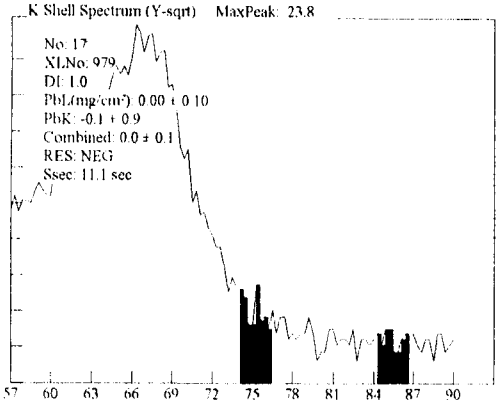

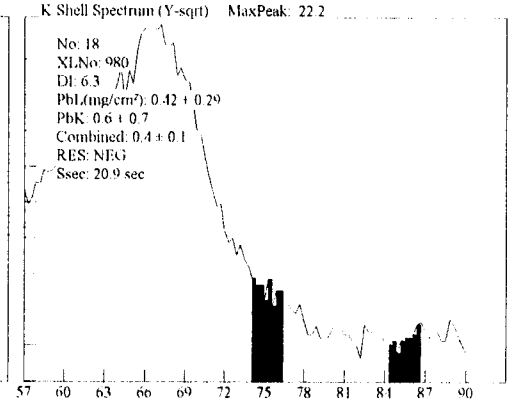

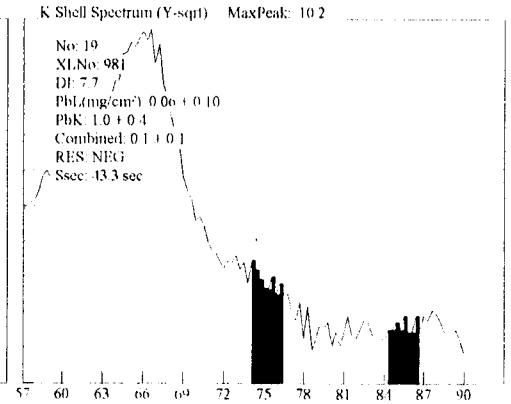

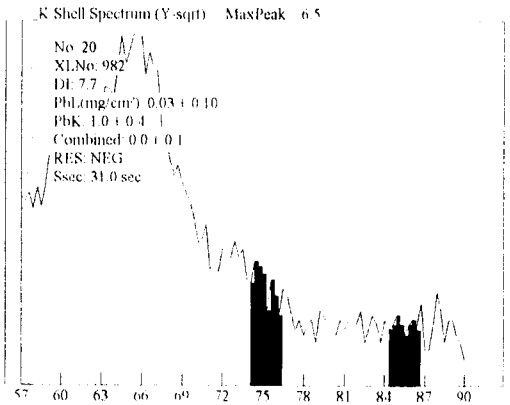

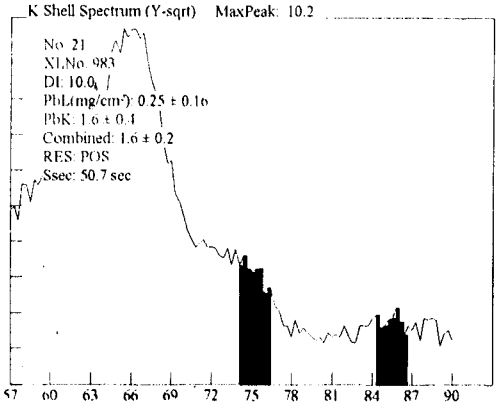

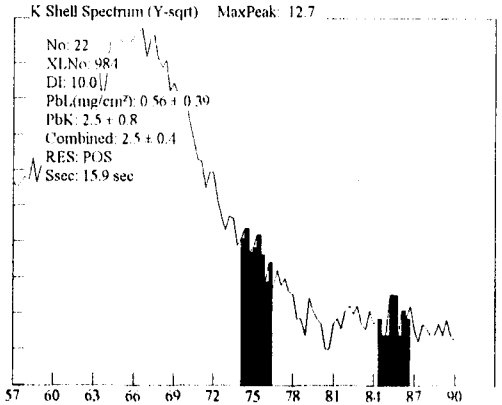

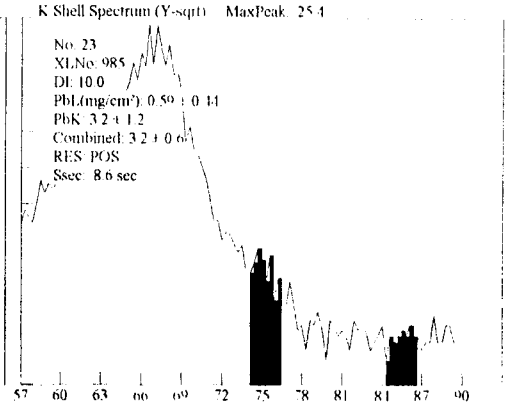

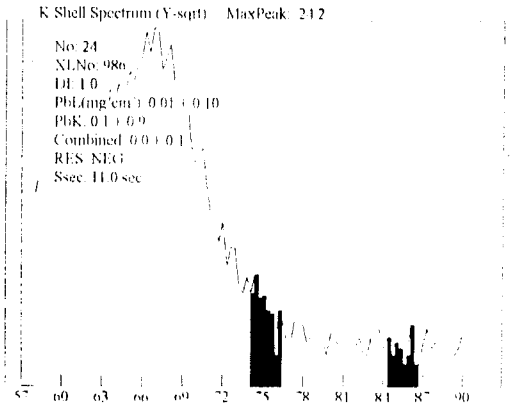

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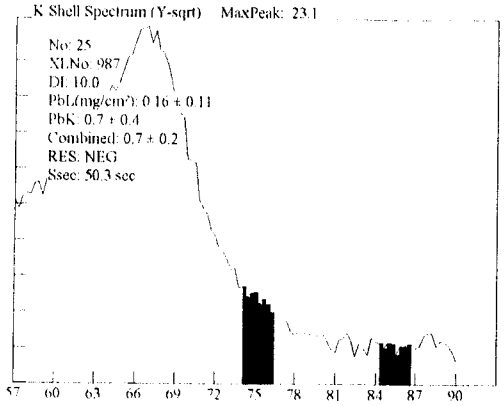

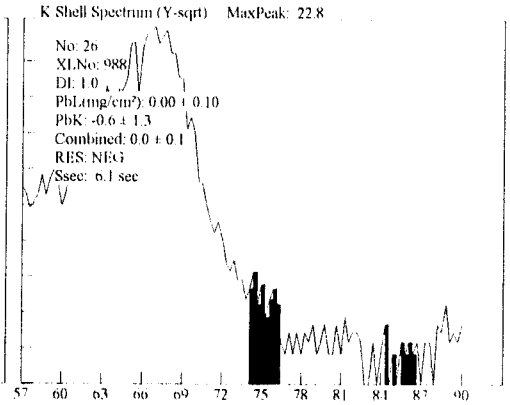

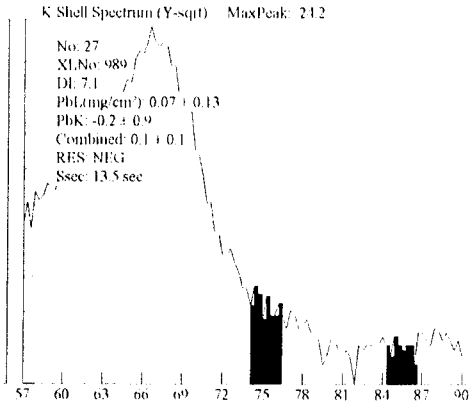

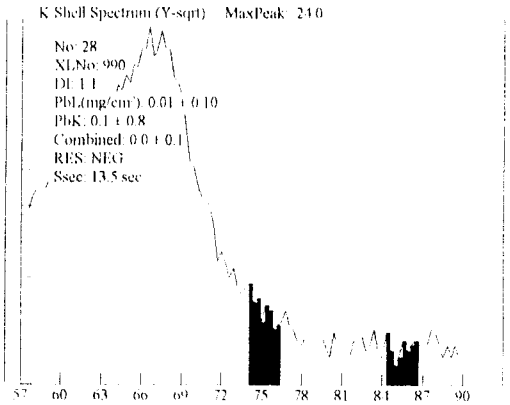

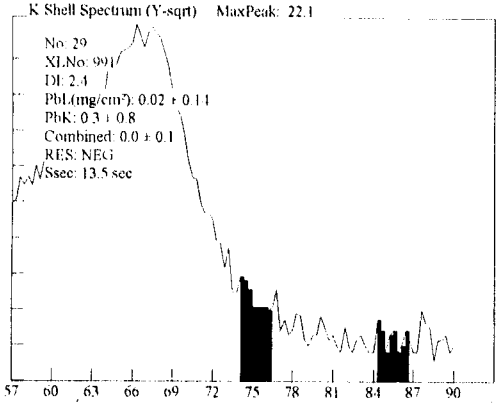

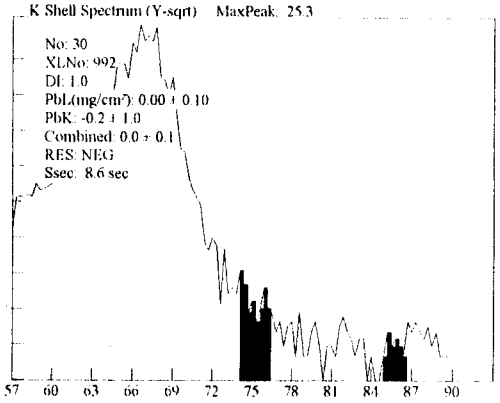

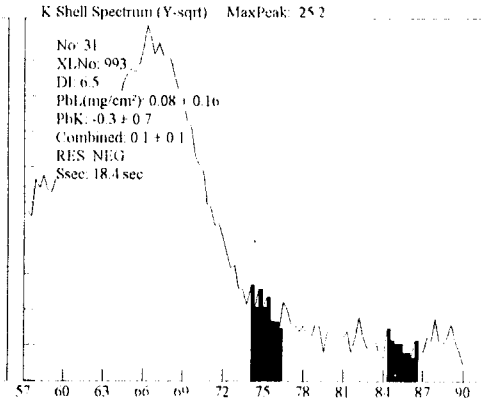

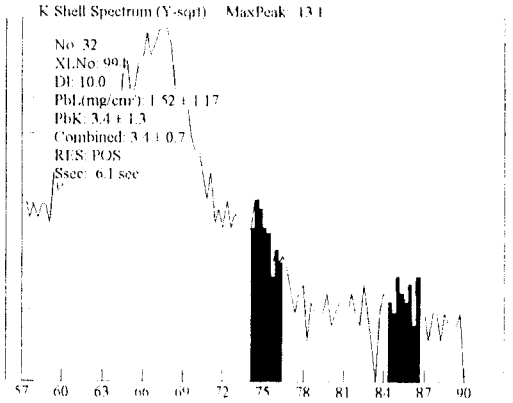

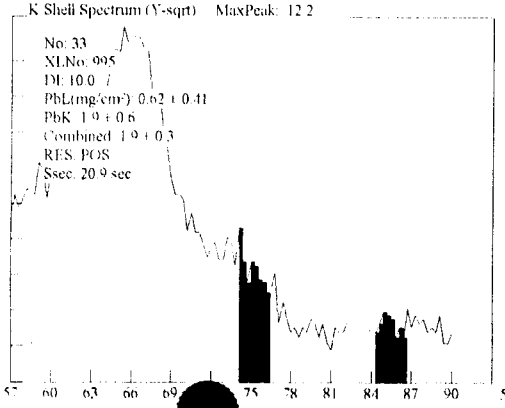

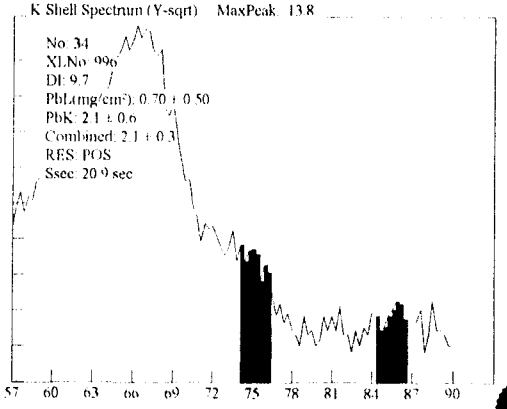

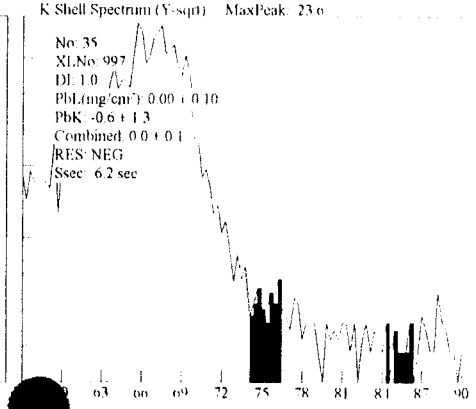

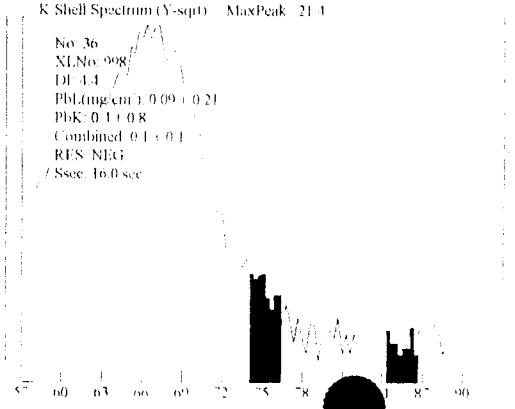

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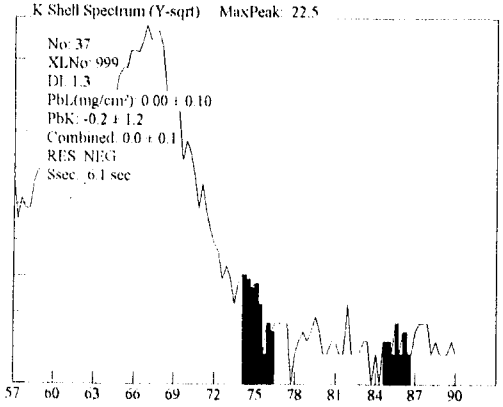

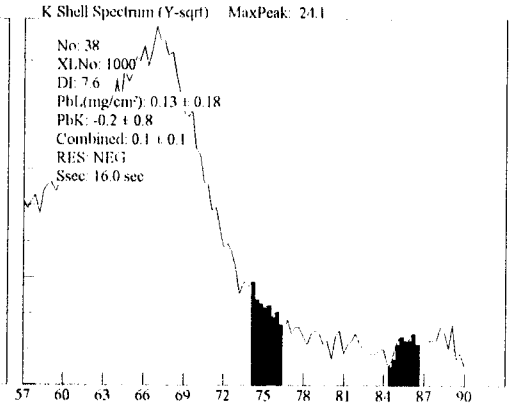

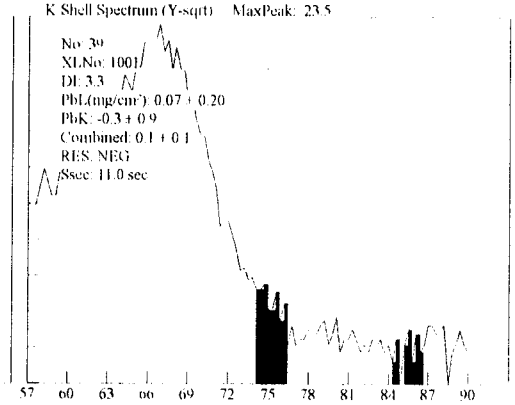

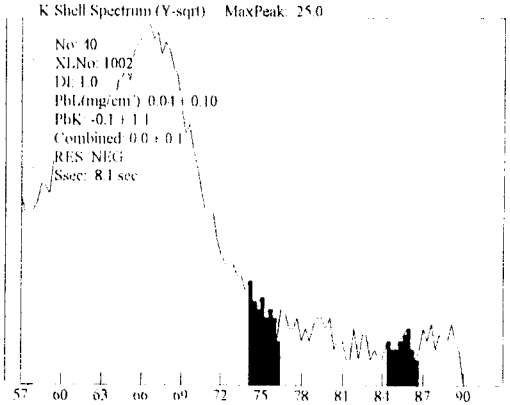

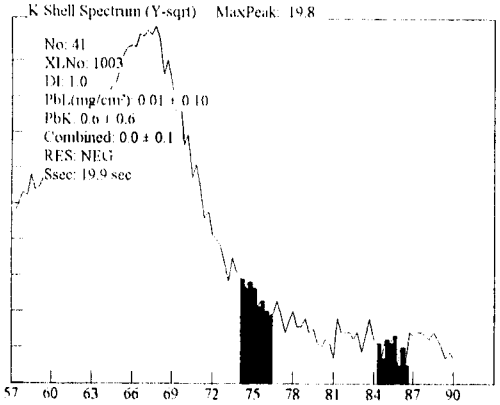

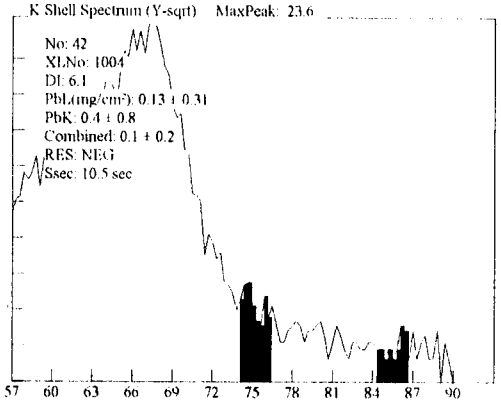

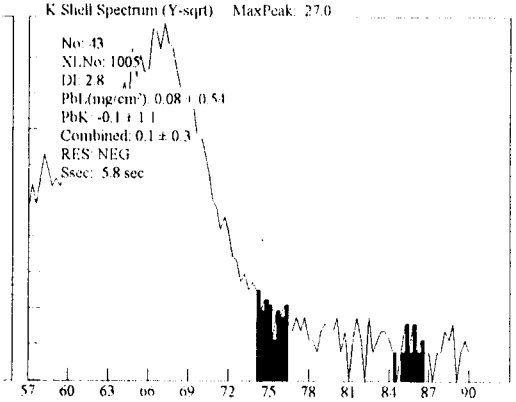

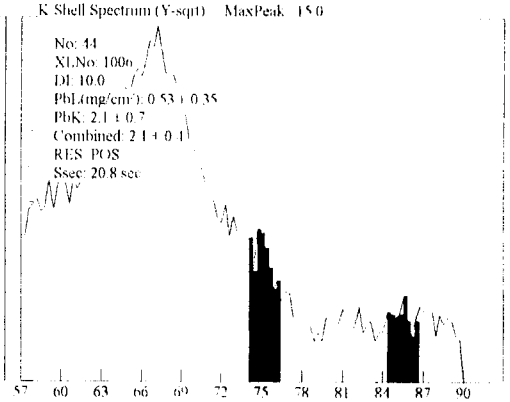

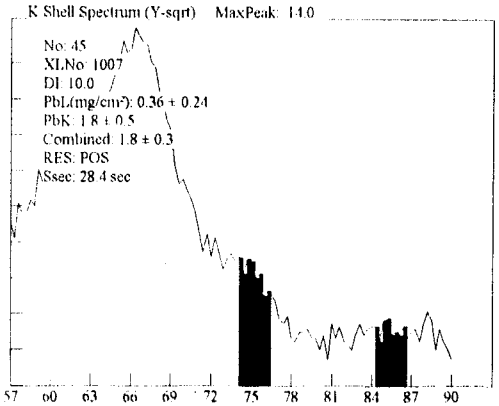

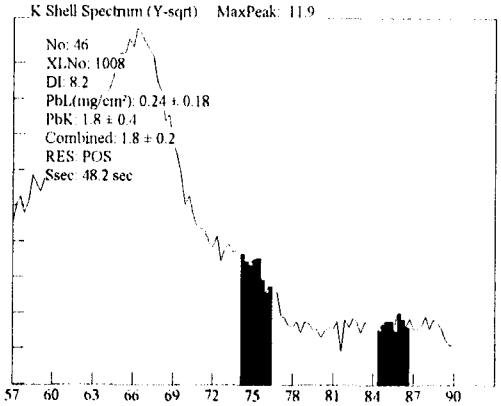

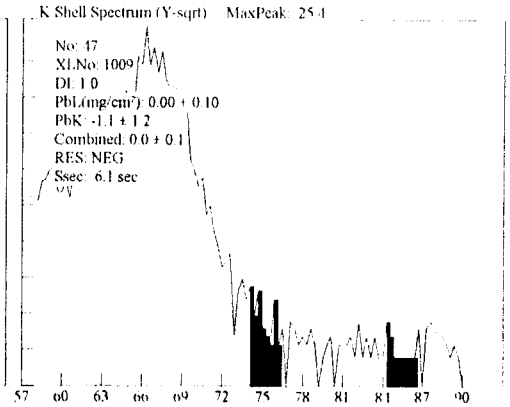

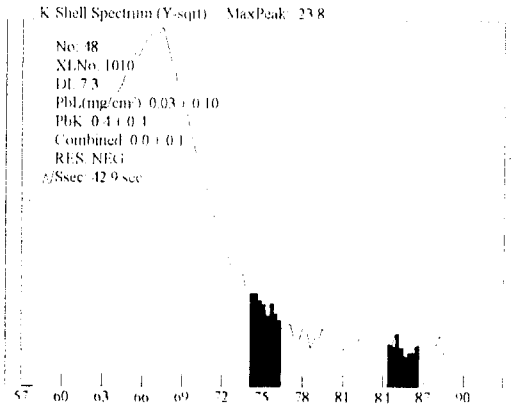

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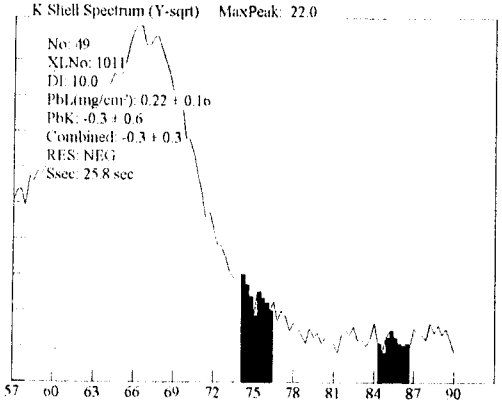

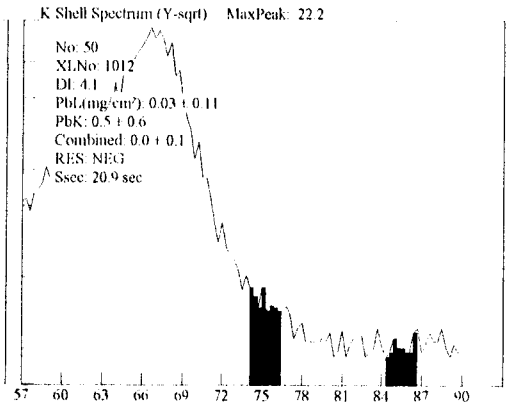

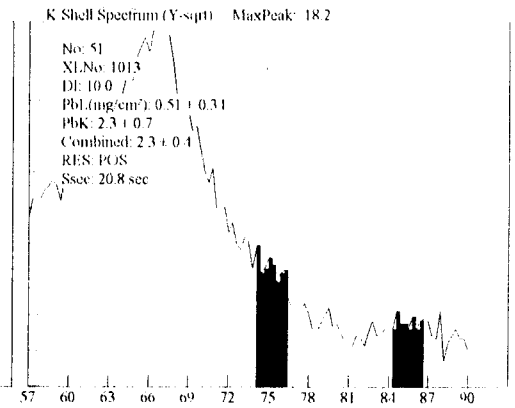

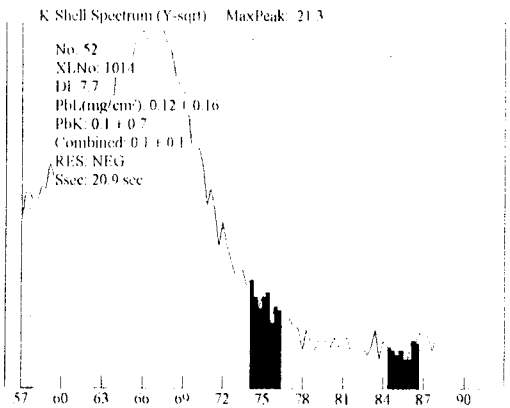

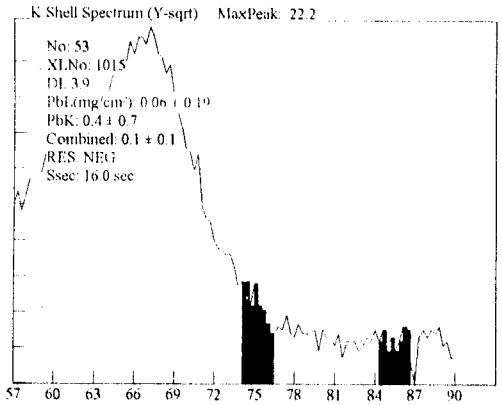

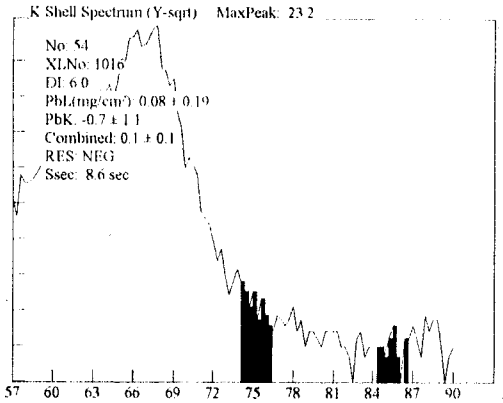

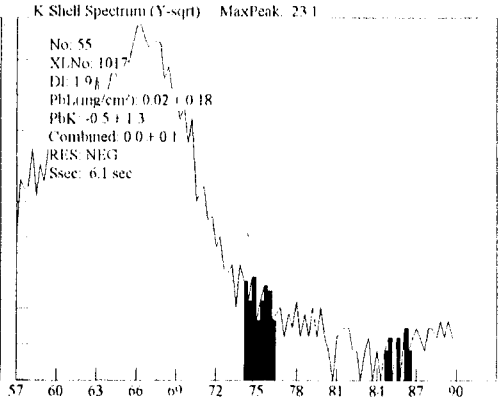

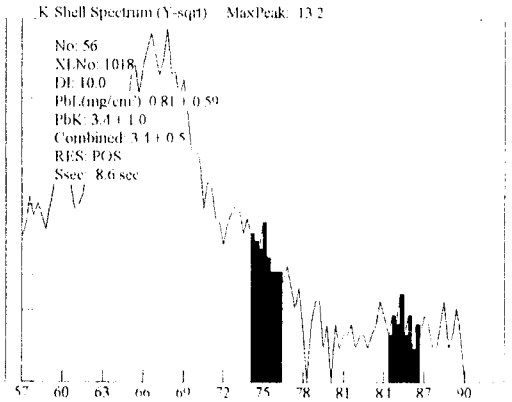

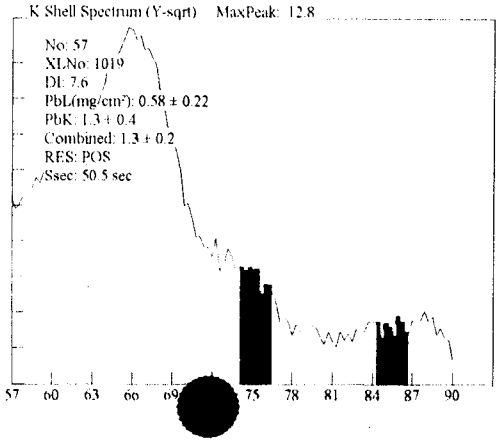

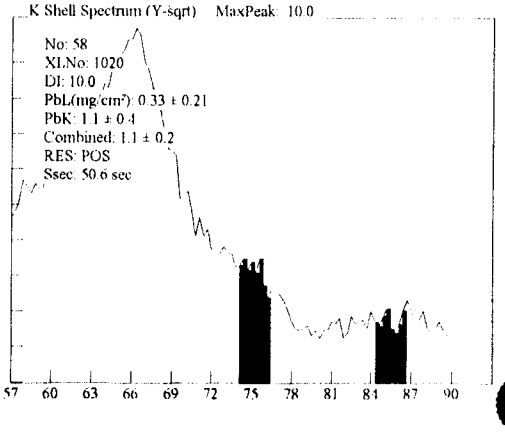

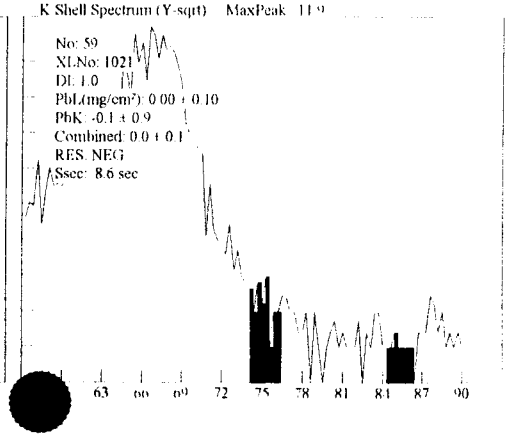

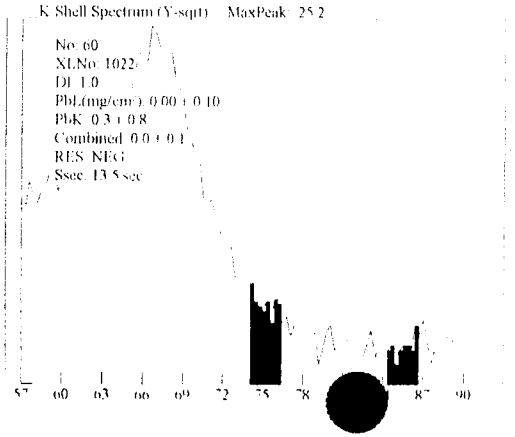

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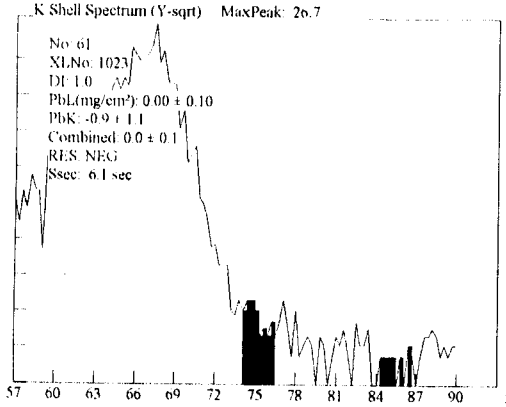

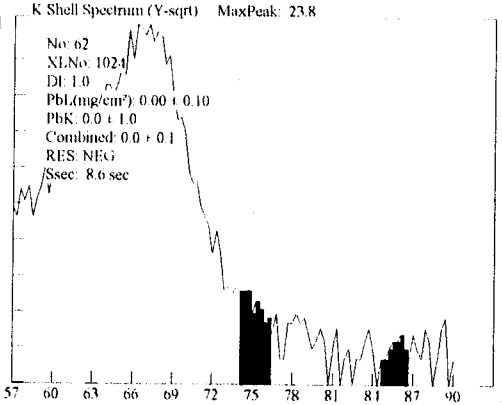

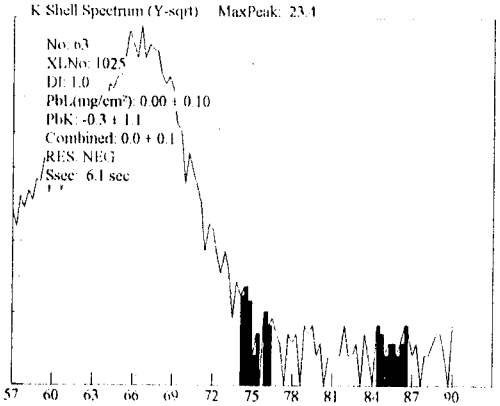

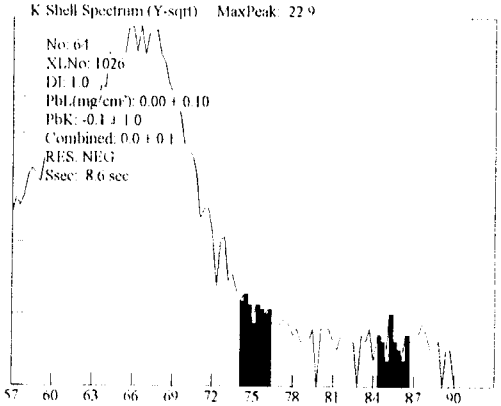

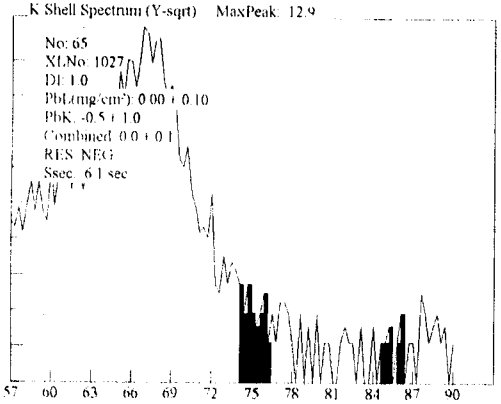

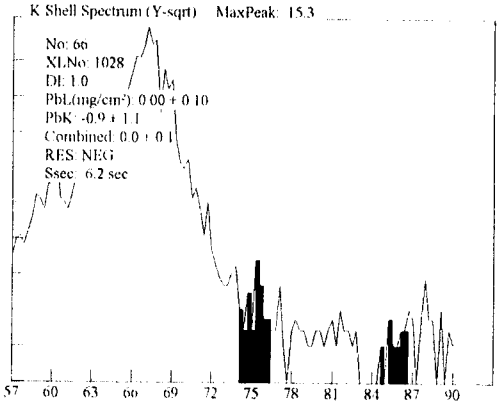

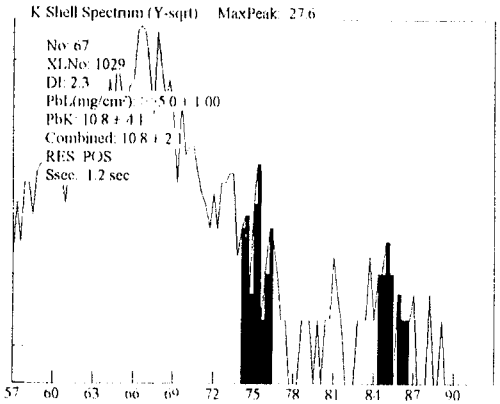

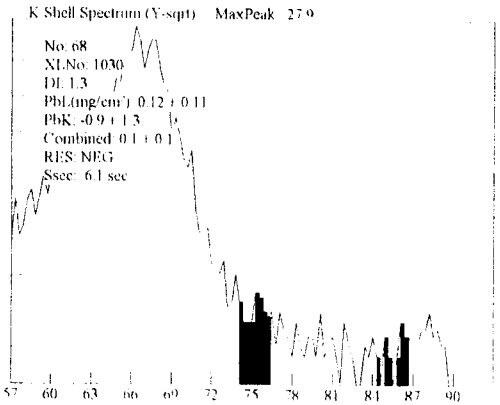

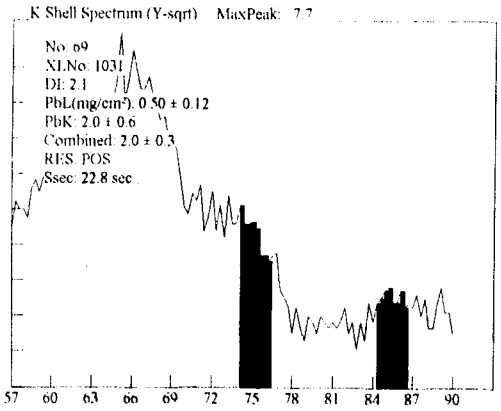

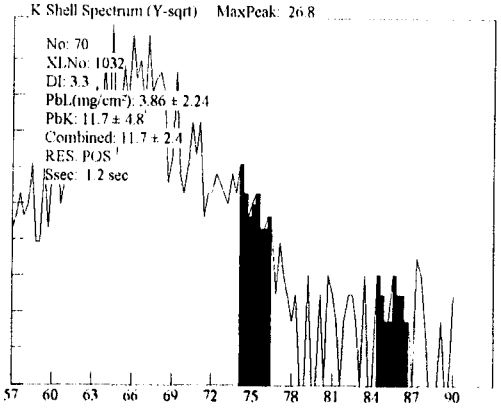

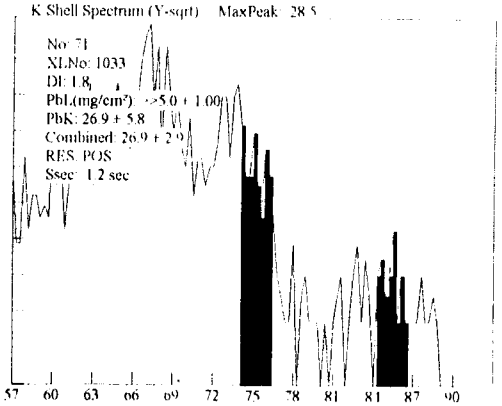

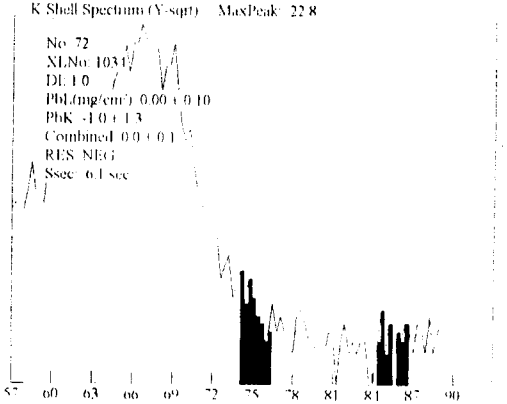

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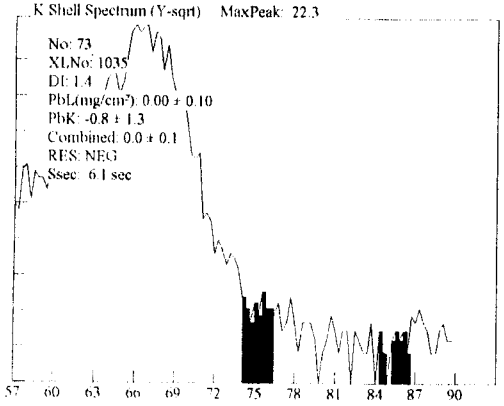

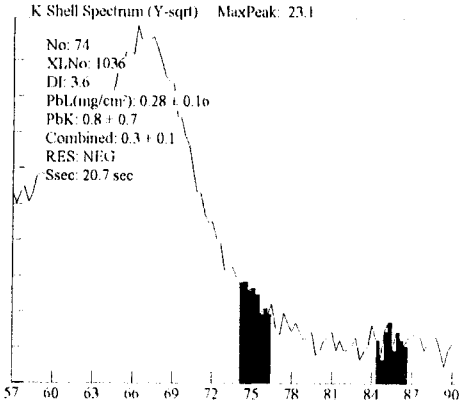

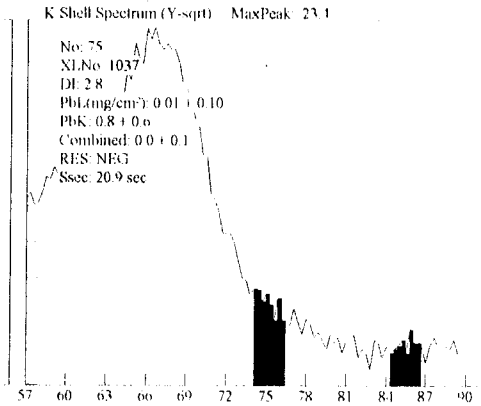

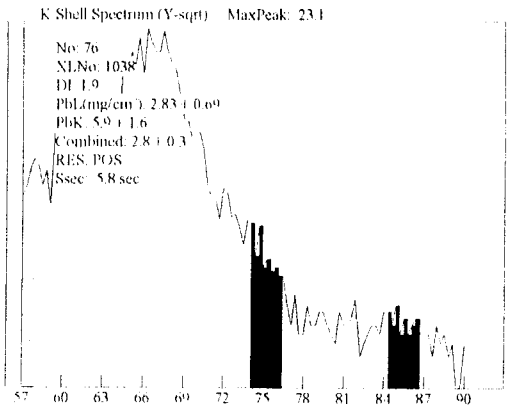

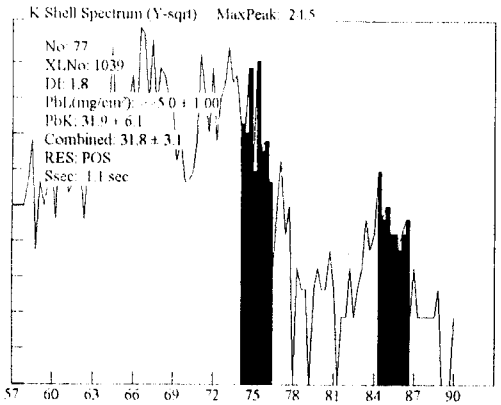

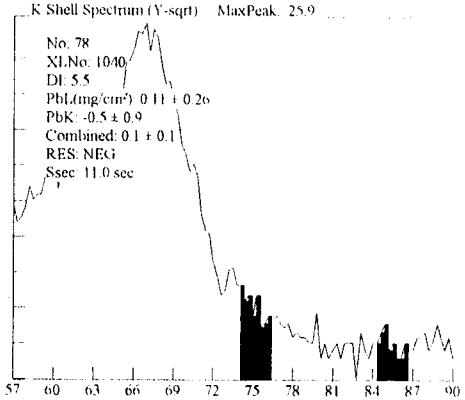

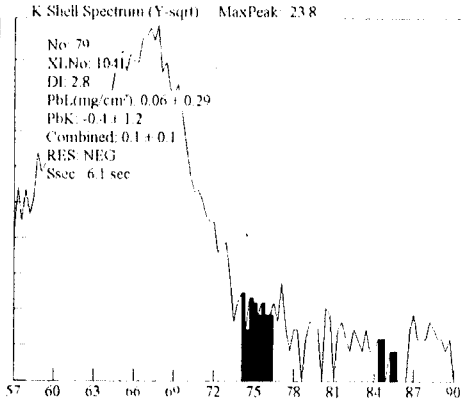

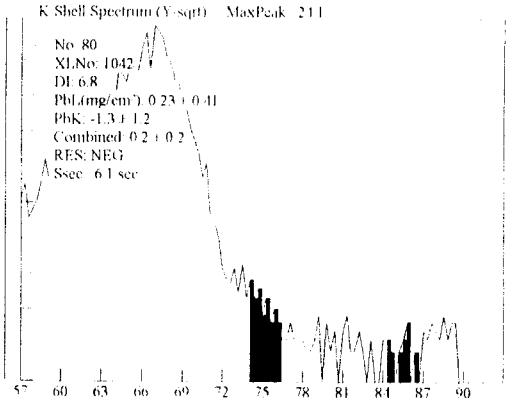

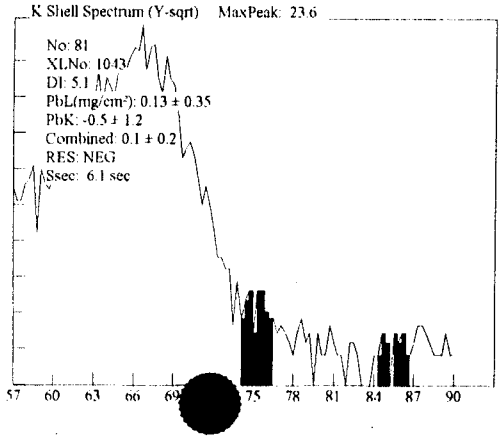

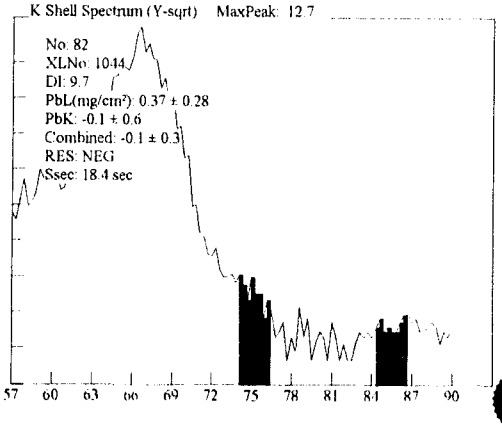

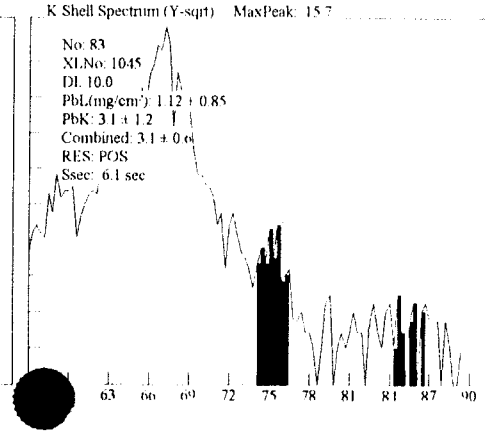

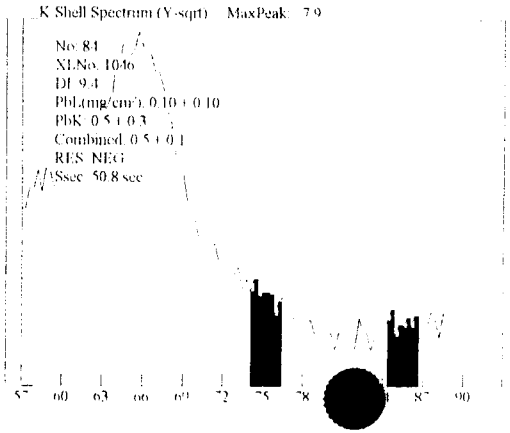

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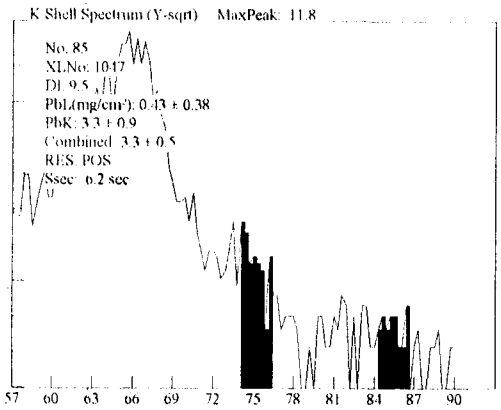

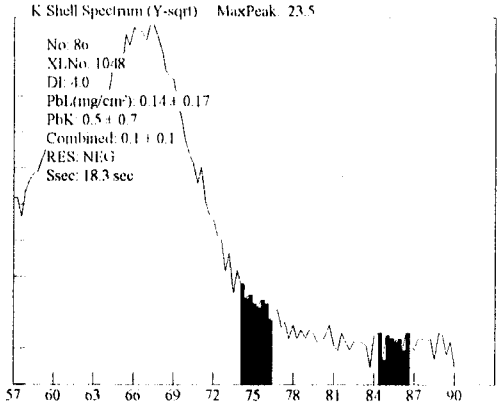

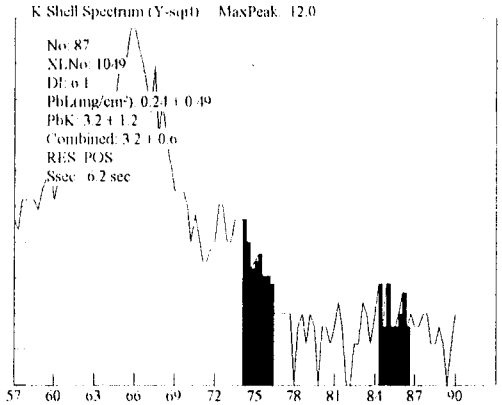

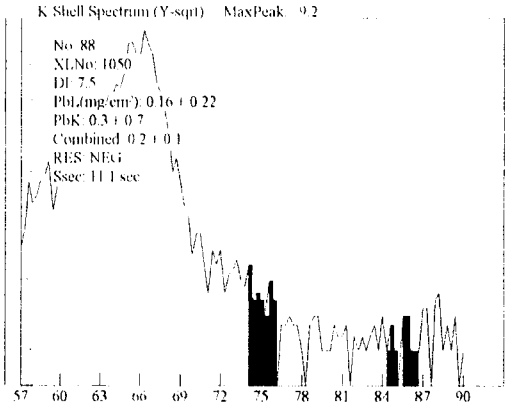

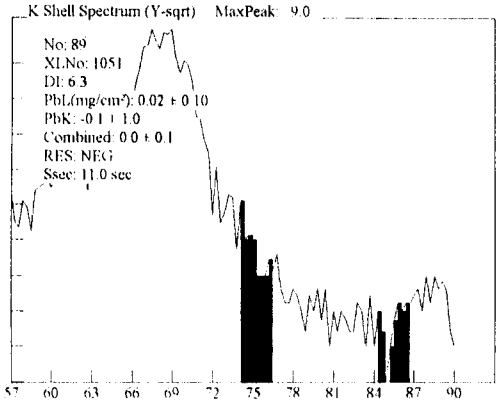

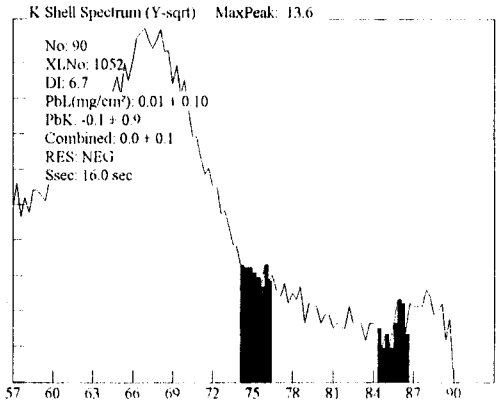

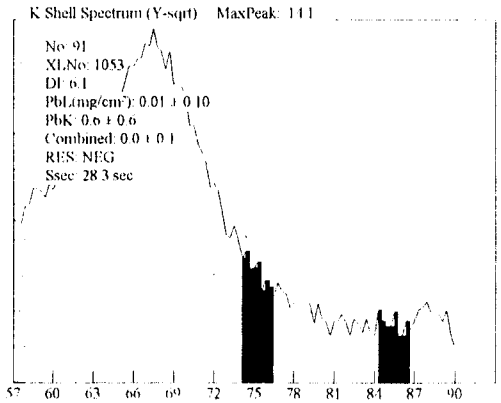

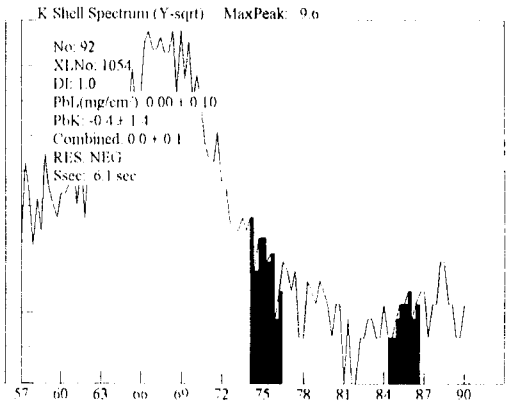

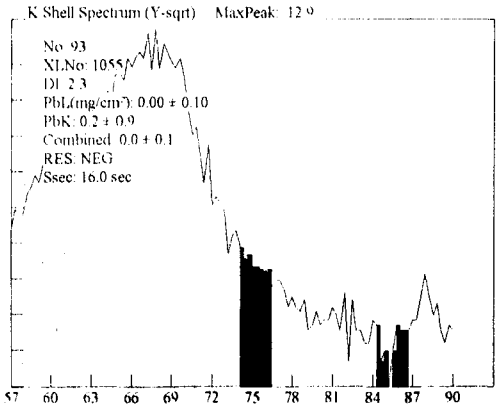

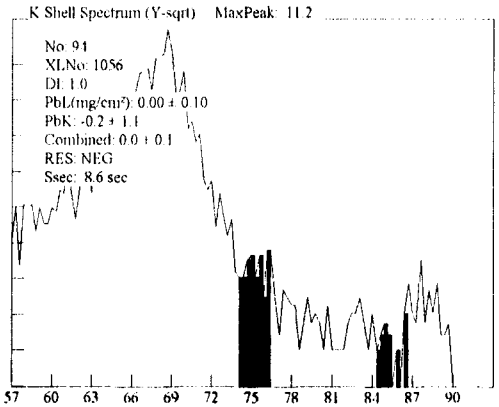

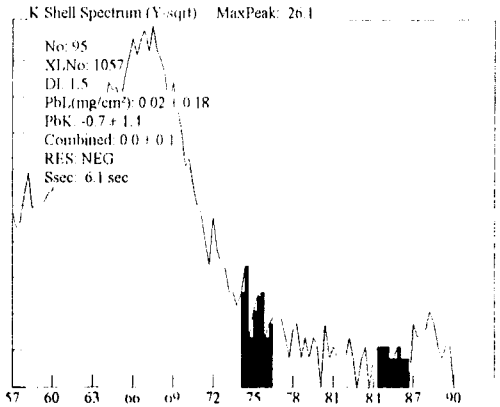

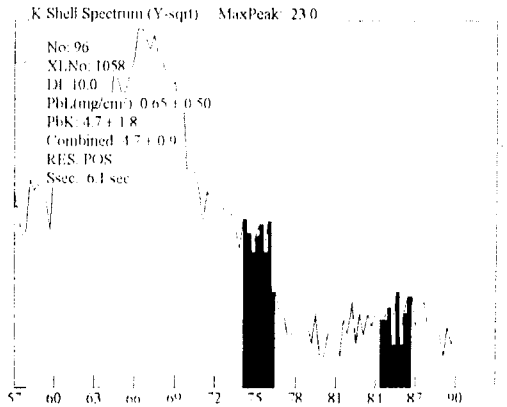

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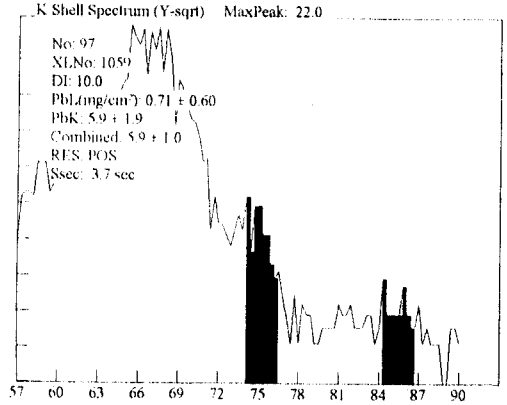

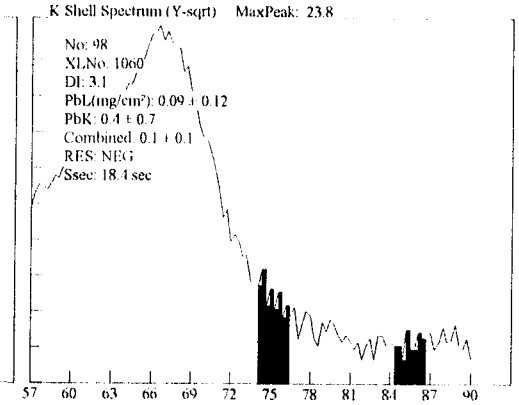

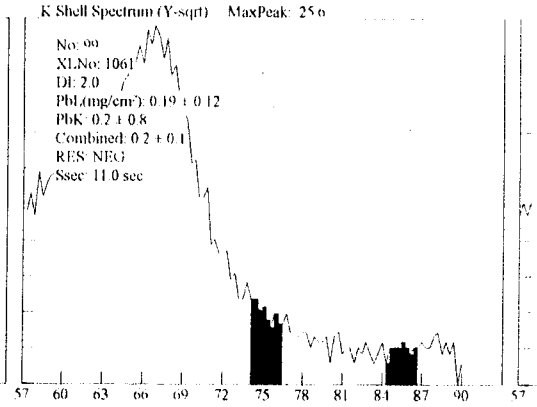

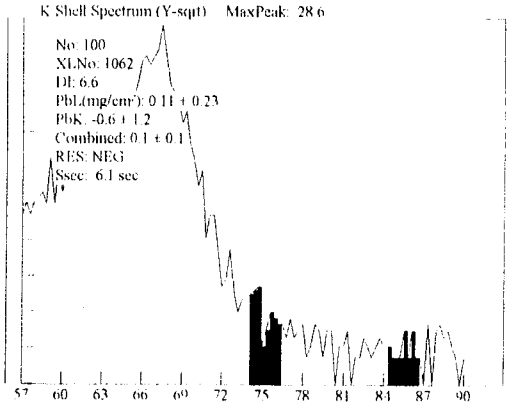

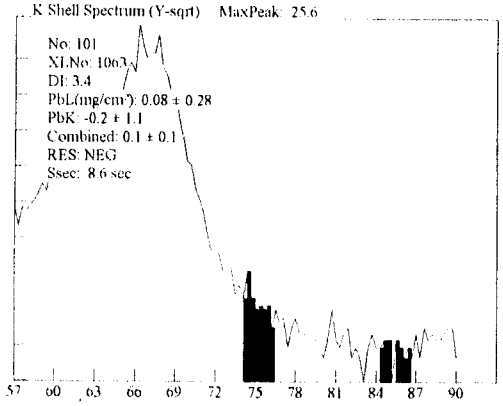

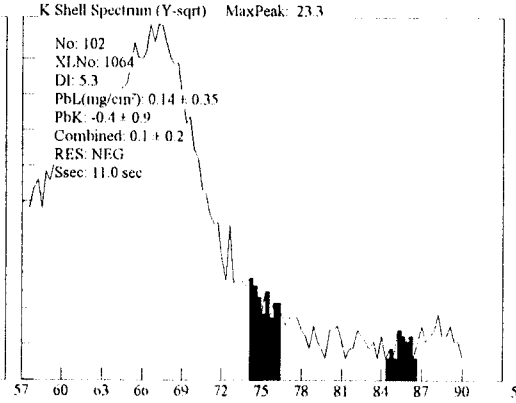

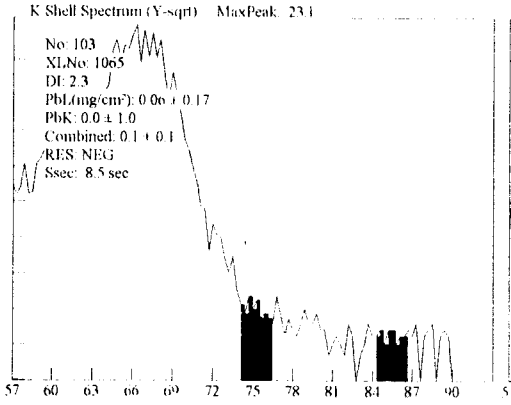

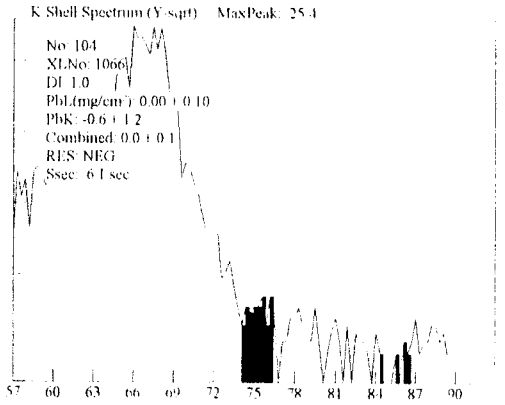

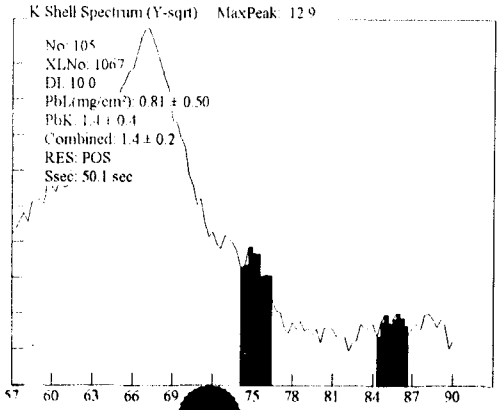

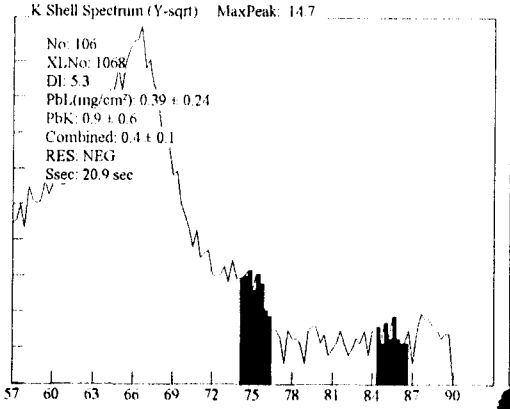

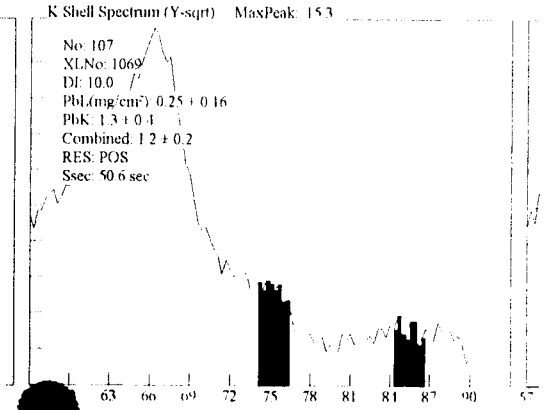

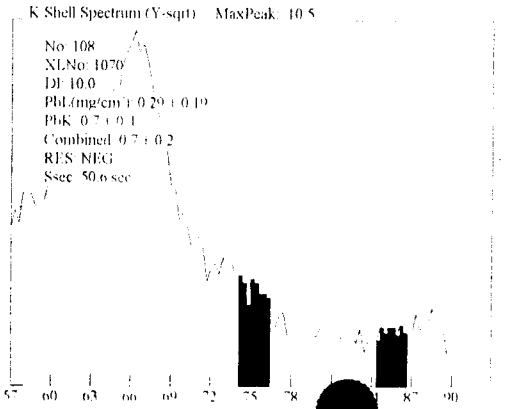

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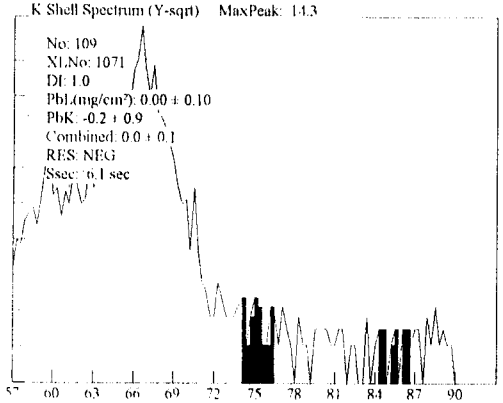
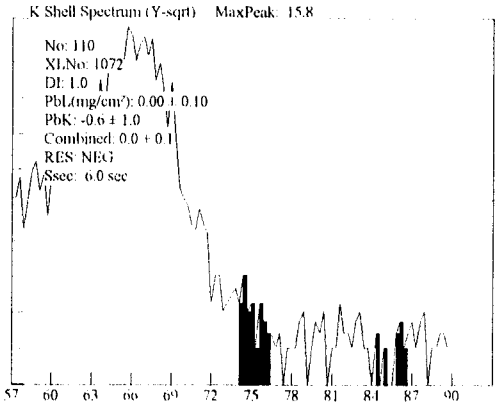
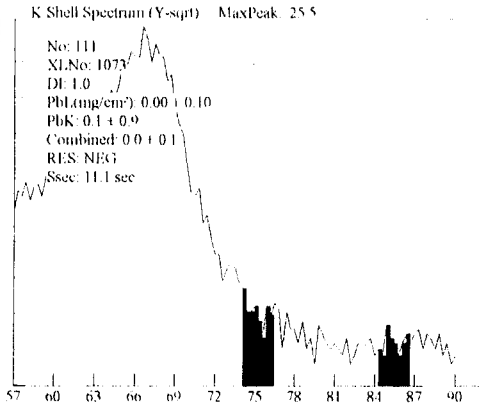
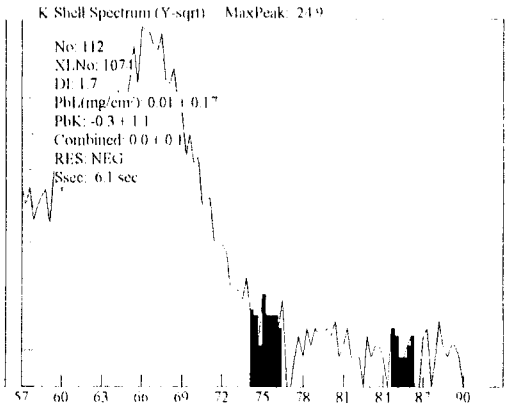
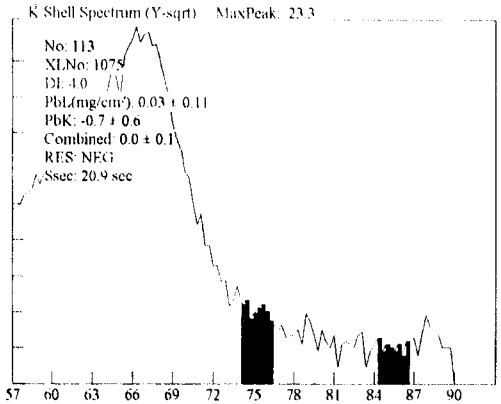
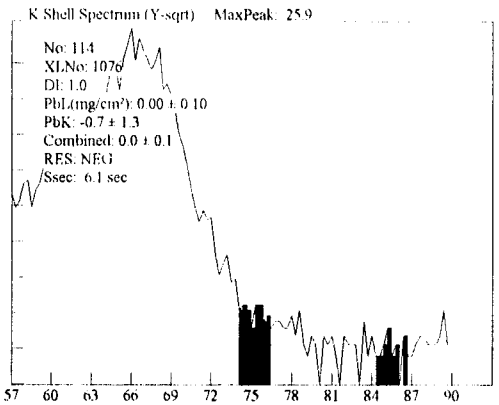


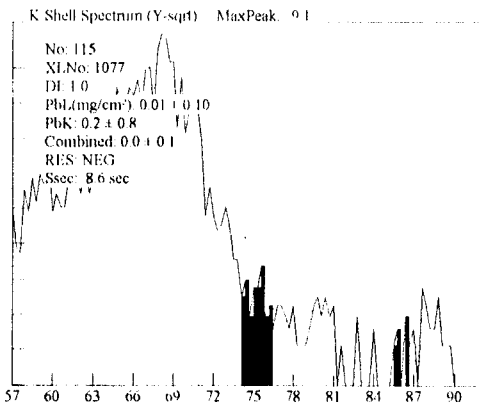


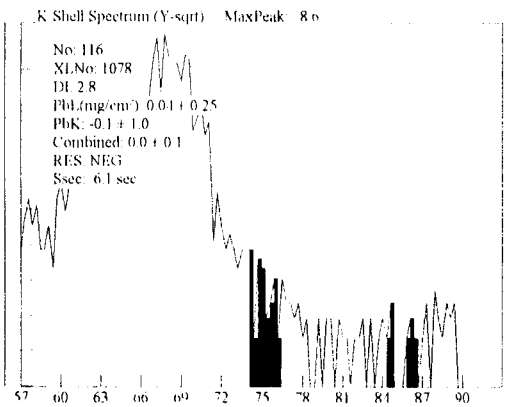


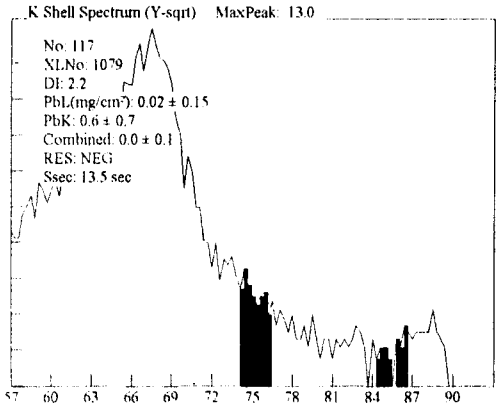


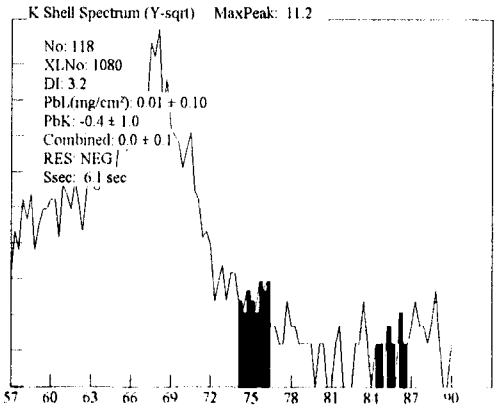


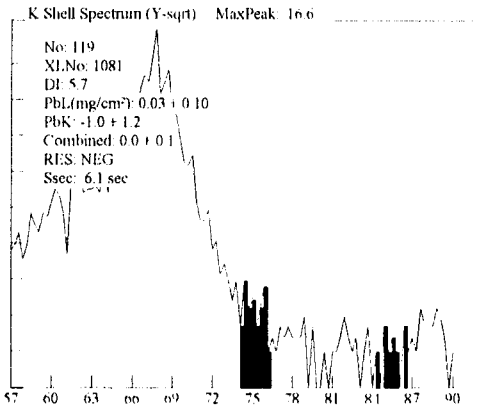


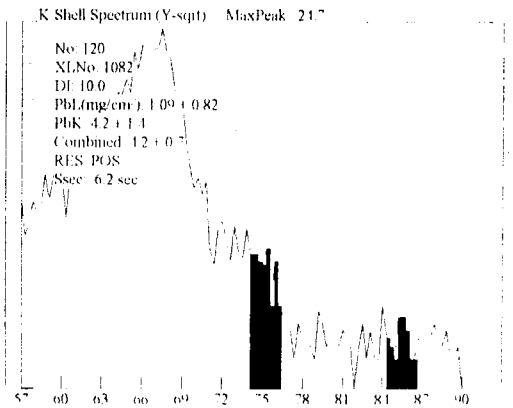








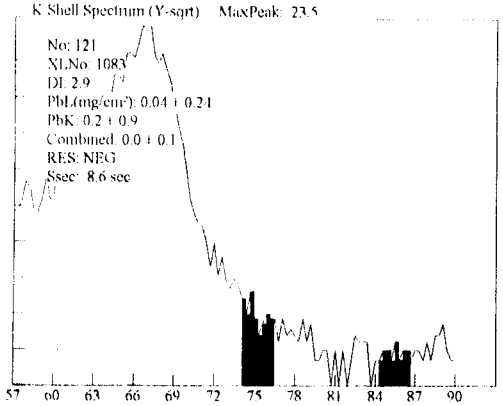


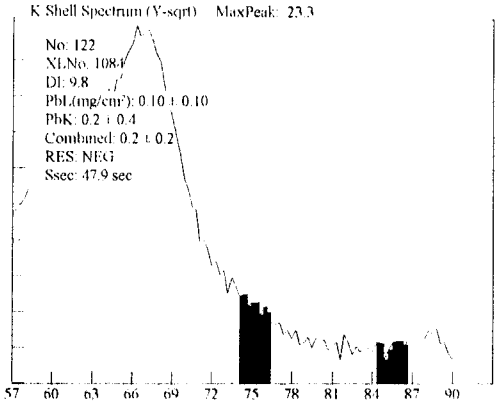


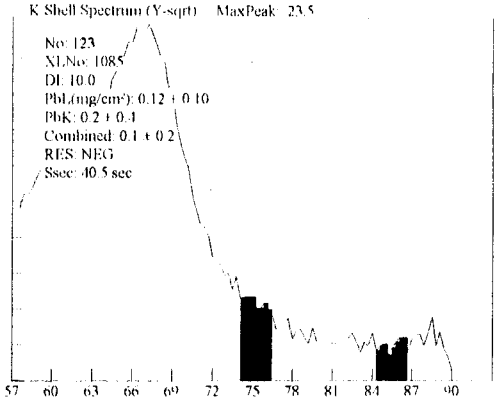
448B

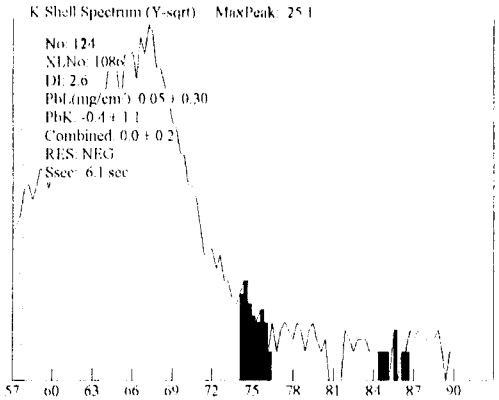
Site: Ranges (NEG<INC<POS): Device PCS

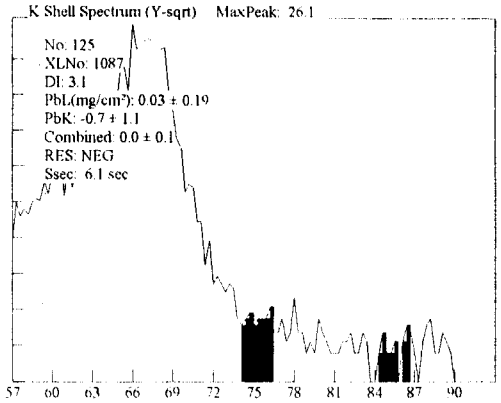
Date: 3/30/100 Paint Page 11

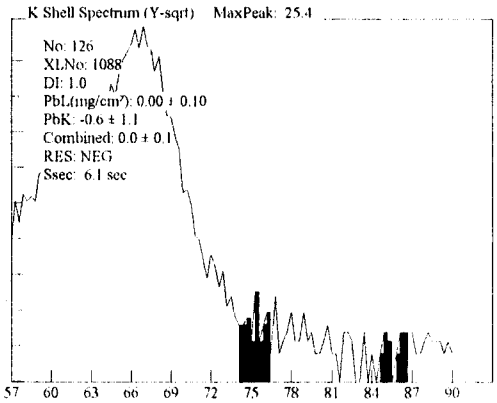


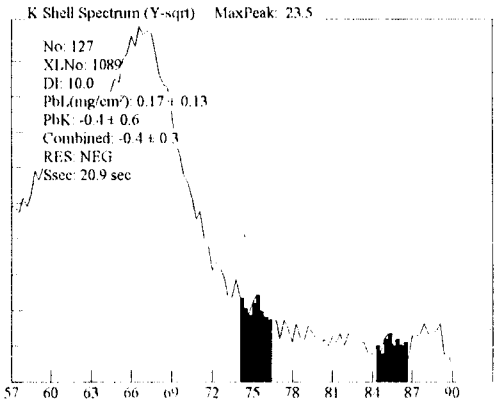


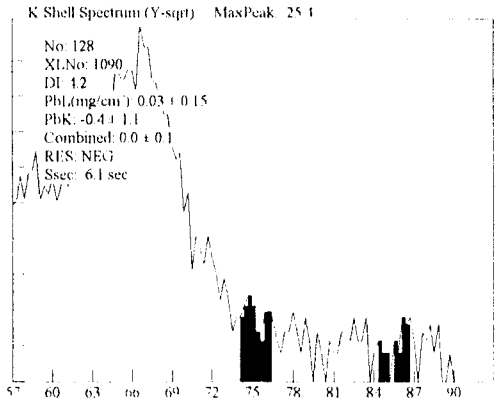


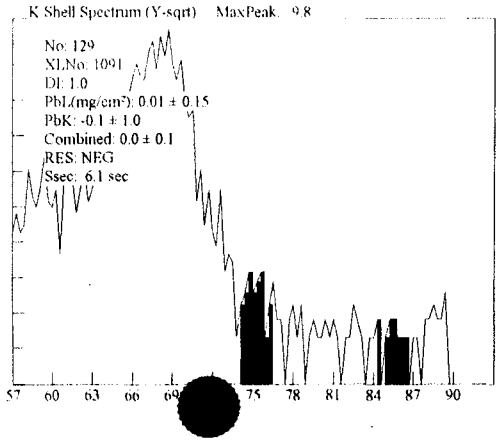


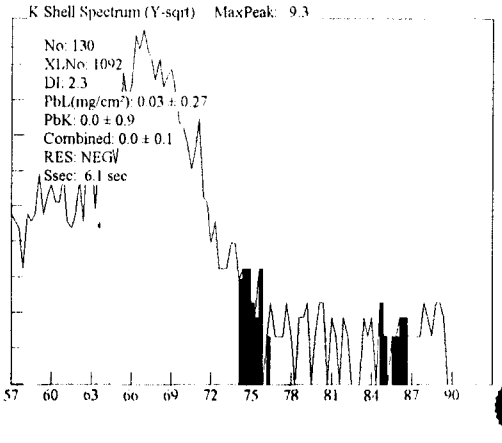


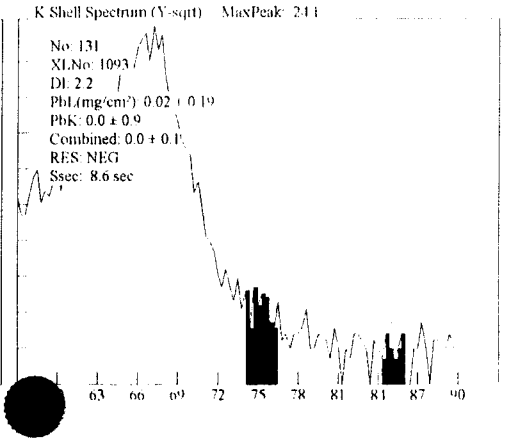


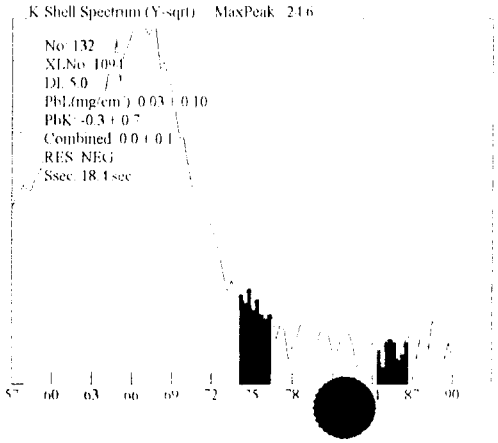








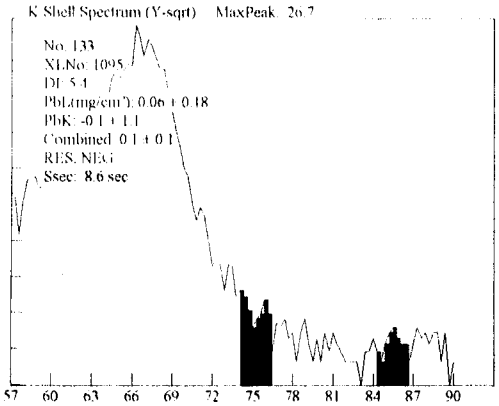


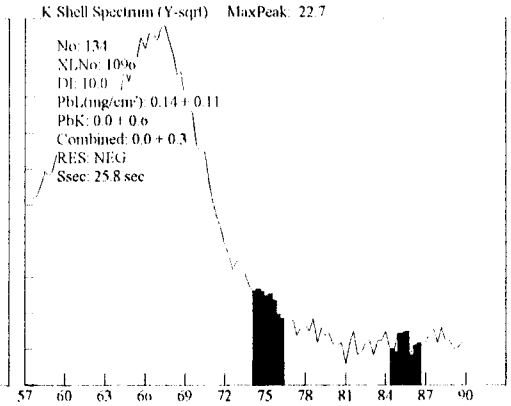


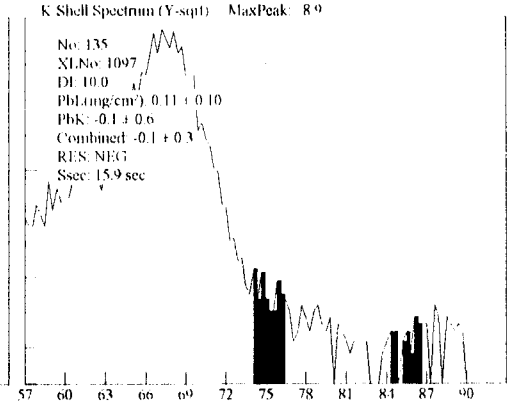
448B

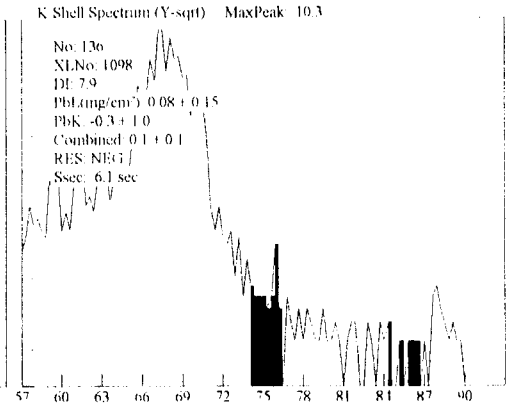
Site: Ranges (NEG<INC<POS): Device PCS

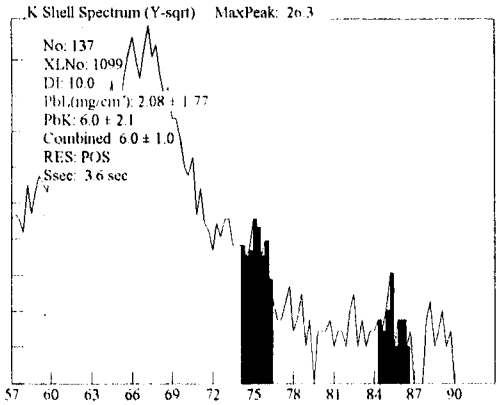
Date: 3/30/100 Paint Page 12

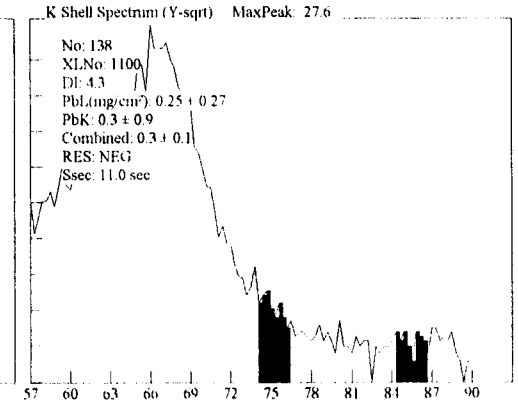


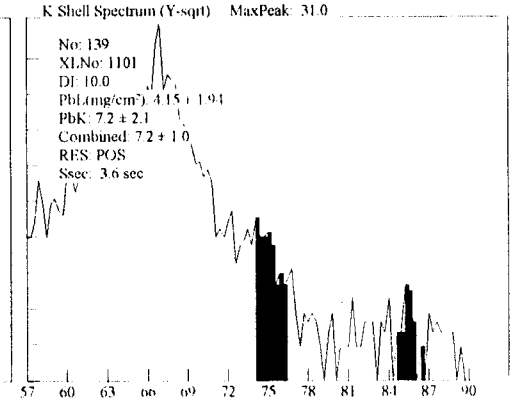


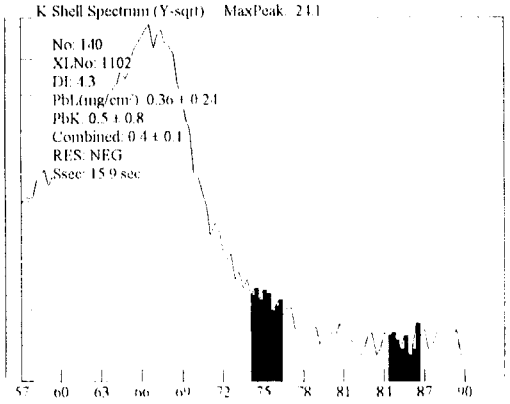


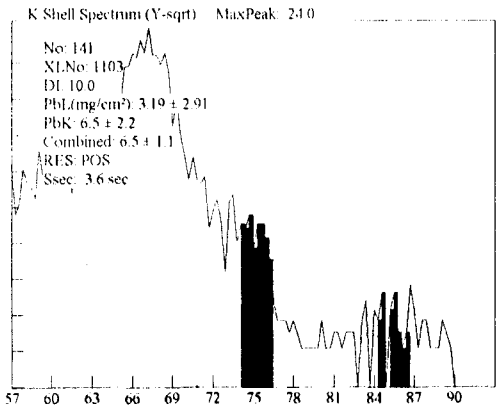


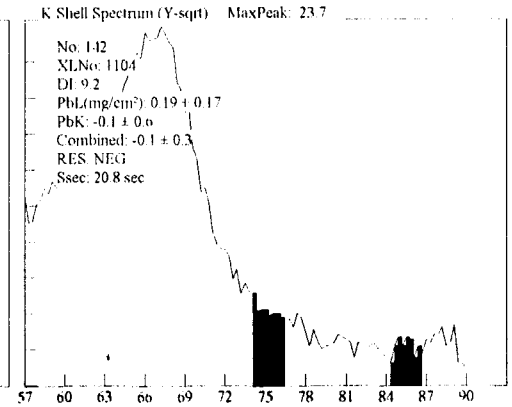


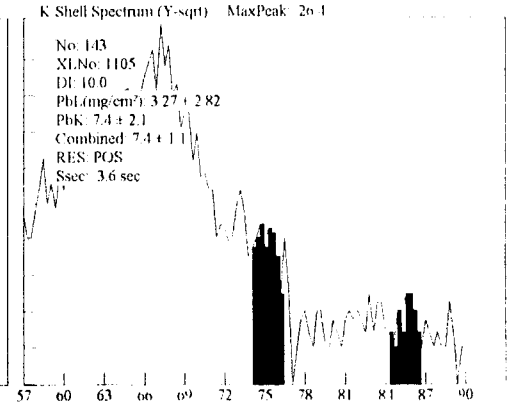


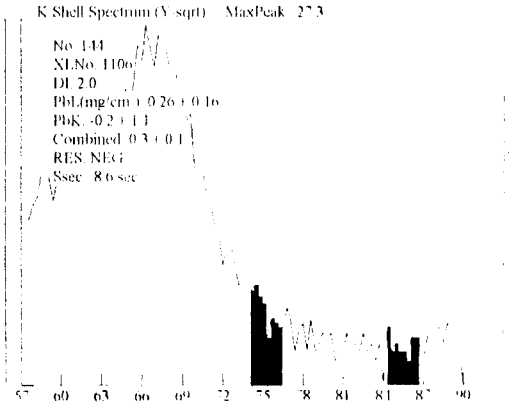








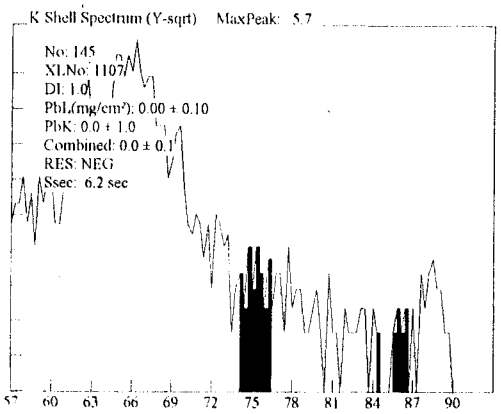


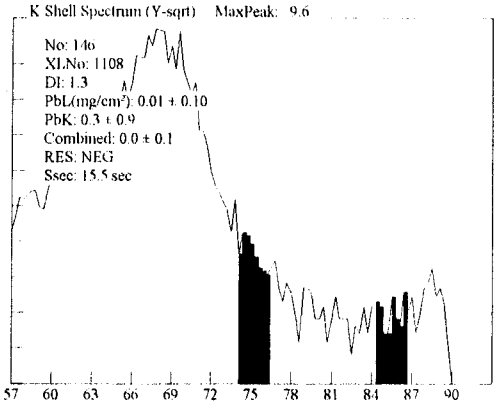


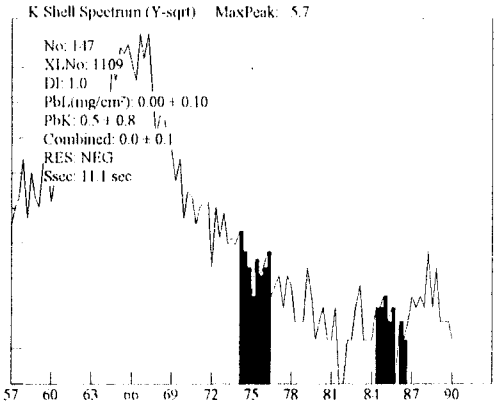
448B

Site: Ranges (NEG<INC<POS): Device PCS

Date: 3/30/100 Paint Page 13



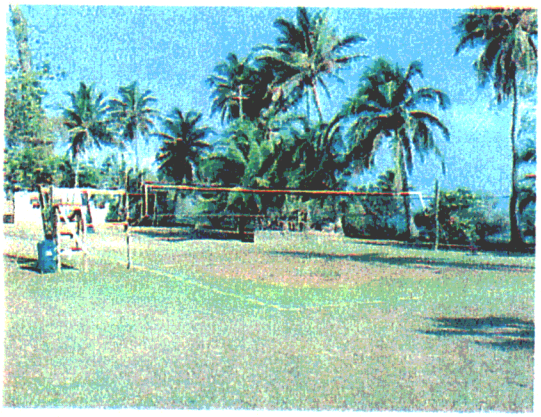




SWING SET AREA
AND
VOLLEYBALL COURT AREA

Swing Set and Volleyball Court

Photograph #1



Photograph #2

Photograph #3

Photograph #4

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor _____

Name of property owner _____

Property address Swings

Sample number	Location	Bare or covered	Lab result (µg/g)
S-SW-01	Building perimeter		729.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
Composite			
1.	bottom of slide		
2.	behind slide		
3.	behind ~~stairs~~ ladder		
4.	under swing		
5	NW corner		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

Total number of samples on this page_____

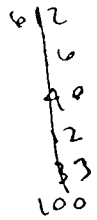
Page _____ of _____

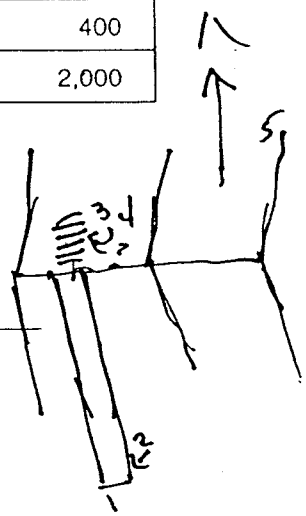
Date of sample collection____/____/____ Date shipped to lab____/____/____

Shipped by _____ (signature) Received by _____ (signature)

18" x 34"
4" x 4"
10" x 4"

6" x 8"
11" x 3"
10" x 10"





Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Olivera5

Name of property owner US Navy

Property address Swing Set Play Area

Sample number	Location	Bare or covered	Lab result (µg/g)
S. SW. 01	Building perimeter		792.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

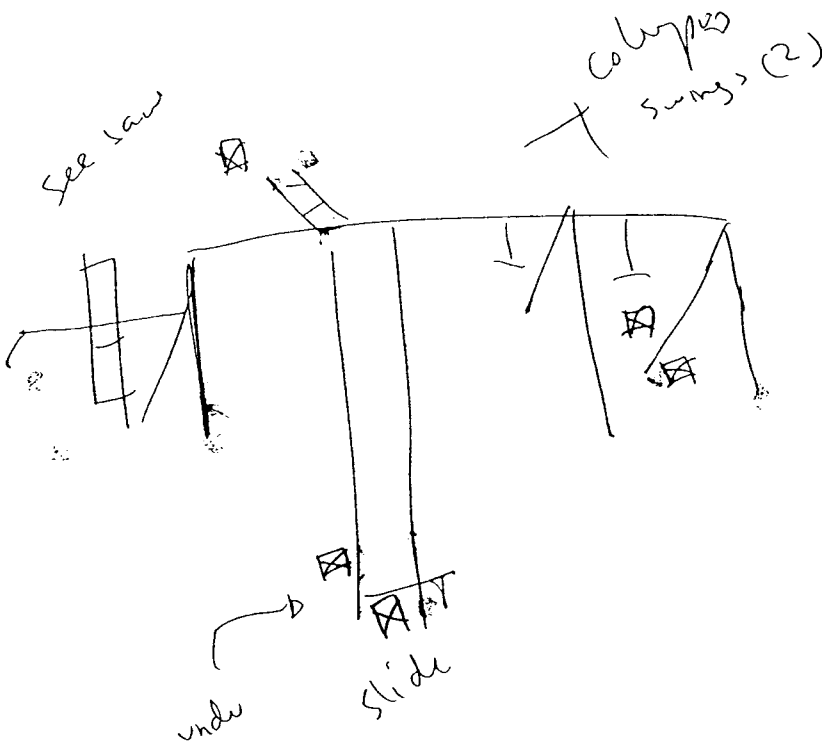
Total number of samples on this page 1

Page 1 of 1

Date of sample collection 3 /Apr/00 Date shipped to lab 5 /Apr/00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

Swing set



less than 9 ft^2

☒ Sample locations

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor _____

Name of property owner _____

Property address Valleyball

Sample number	Location	Bare or covered	Lab result (µg/g)
S-VB-01	Building perimeter		287.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
Composite			
1.	Center		
2.	SE		
3.	NE		
4.	NW		
5.	SW		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

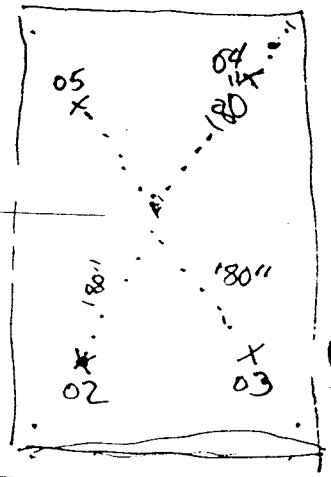
Collect only the top 1/2 inch of soil.

Total number of samples on this page _____

Page _____ of _____

Date of sample collection ___/___/___ Date shipped to lab ___/___/___

Shipped by _____ Received by _____
(signature) (signature)



78" x 60"
250" x 100"
220" x 96"
48" x 54"
250" x 120"
84" x 48"
80" x 40"
48" x 48"
250" x 134"
48" x 78"

Form 5.5
Field Sampling Form for Soil
(Composite Sampling Only)

Name of risk assessor Miguel A Olivaras

Name of property owner US Navy

Property address Volleyball Court

Sample number	Location	Bare or covered	Lab result (µg/g)
S.VB.01	Building perimeter		287.0
	Building perimeter		
	Play area 1 (describe) _____		
	Play area 2 (describe) _____		
HUD interim standard for play area			400
HUD interim standard for perimeter			2,000

Collect only the top 1/2 inch of soil.

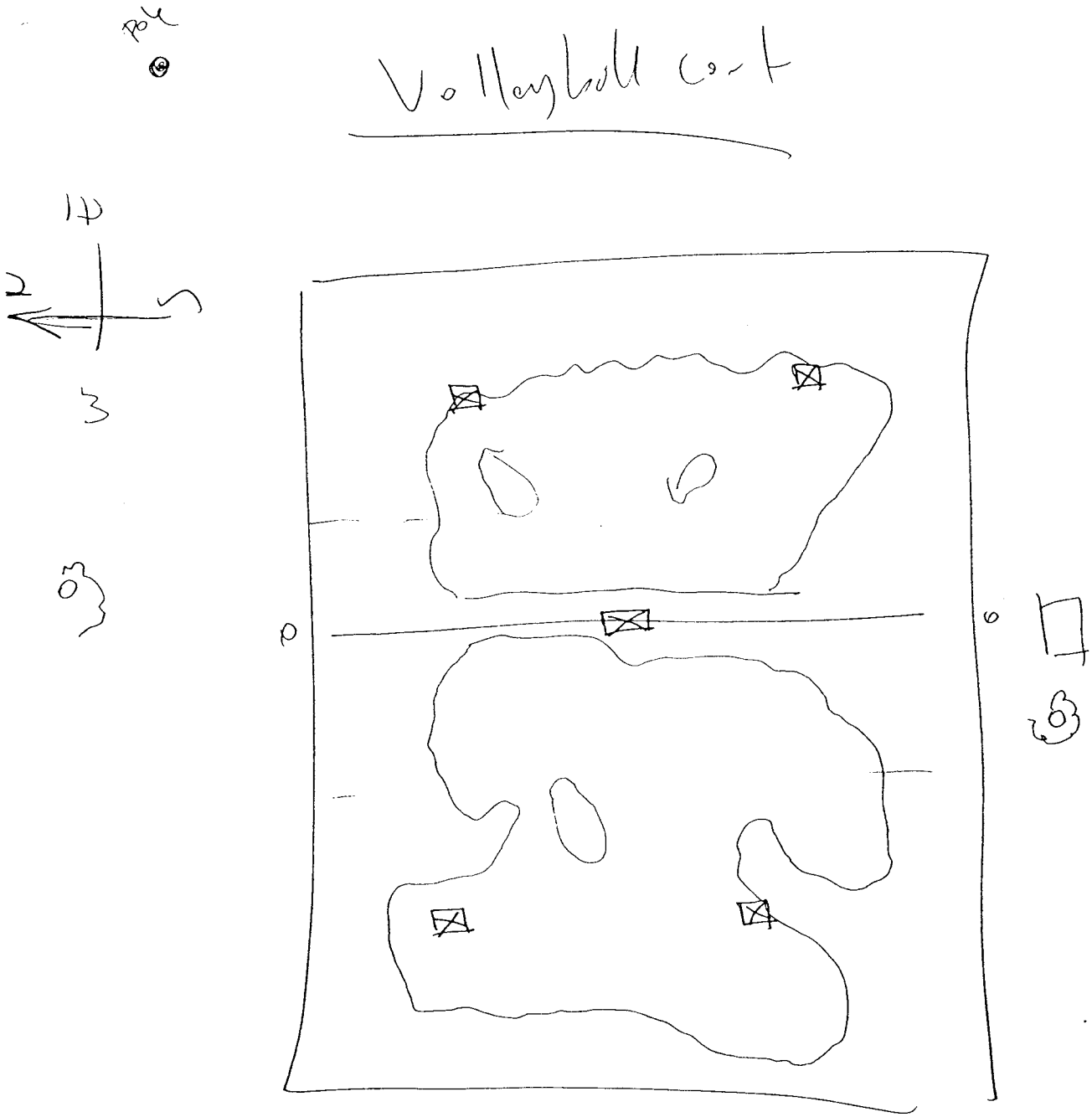
Total number of samples on this page 1

Page 1 of 1

Date of sample collection 5 / Apr / 00 Date shipped to lab 5 / Apr / 00

Shipped by _____ (signature) Received by _____ 10:00 am (signature)

Volleyball Court



Sample Locations

☒

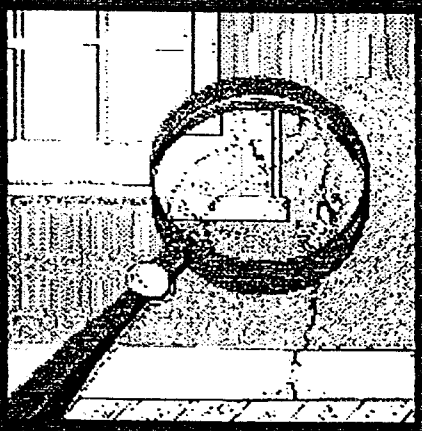
All samples are 180' from center court sample

30' X 60'

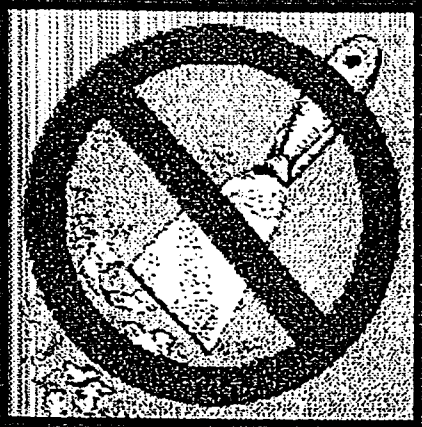
volleyball court measurements

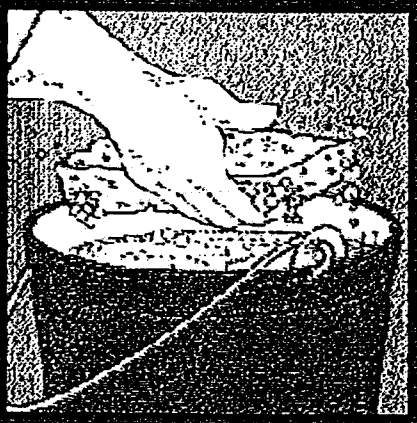
+/- 75% is Exposed Soil or Bare

EPA LEAD PAMPHLET INFORMATION



Protect Your Family From Lead In Your Home





United States Environmental Protection Agency

United States Consumer Product Safety Commission

United States Department of Housing and Urban Development

U.S. EPA Washington DC 20460
U.S. CPSC Washington DC 20207
U.S. HUD Washington DC 20410

EPA747-K-99-001
April 1999

Simple Steps To Protect Your Family From Lead Hazards

If you think your home has high levels of lead:

- Get your young children tested for lead, even if they seem healthy.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat healthy, low-fat foods.
- Get your home checked for lead hazards.
- Regularly clean floors, window sills, and other surfaces.
- Wipe soil off shoes before entering house.
- Talk to your landlord about fixing surfaces with peeling or chipping paint.
- Take precautions to avoid exposure to lead dust when remodeling or renovating (call 1-800-424-LEAD for guidelines).
- Don't use a belt-sander, propane torch, heat gun, dry scraper, or dry sandpaper on painted surfaces that may contain lead.
- Don't try to remove lead-based paint yourself.

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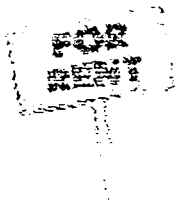
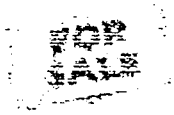
Are You Planning To Buy, Rent, or Renovate a Home Built Before 1978?

Many houses and apartments built before 1978 have paint that contains lead (called lead-based paint). Lead from paint, chips, and dust can pose serious health hazards if not taken care of properly.

Federal law requires that individuals receive certain information before renting, buying, or renovating pre-1978 housing:



LANDLORDS have to disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a disclosure form about lead-based paint.



SELLERS have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure form about lead-based paint. Buyers have up to 10 days to check for lead hazards.

RENOVATORS have to give you this pamphlet before starting work. (After June 1, 1999.)

IF YOU WANT MORE INFORMATION on these requirements, call the National Lead Information Clearinghouse at **1-800-424-LEAD.**

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IMPORTANT!

Lead From Paint, Dust, and Soil Can Be Dangerous If Not Managed Properly

FACT: Lead exposure can harm young children and babies even before they are born.

FACT: Even children who seem healthy can have high levels of lead in their bodies.

FACT: People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.

FACT: People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.

FACT: Removing lead-based paint improperly can increase the danger to your family.

If you think your home might have lead hazards, read this pamphlet to learn some simple steps to protect your family.

Lead Gets in the Body in Many Ways

In the United States, about 900,000 children ages 1 to 5 have a blood-lead level above the level of concern.

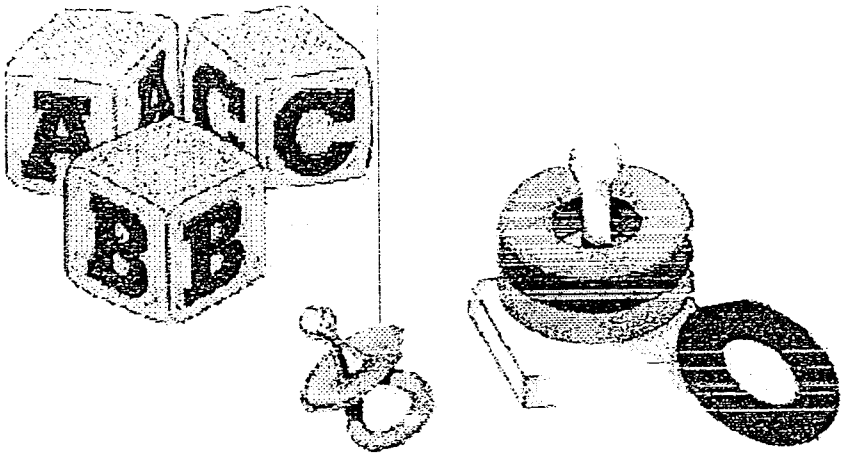
Even children who appear healthy can have dangerous levels of lead in their bodies.

People can get lead in their body if they:

- Put their hands or other objects covered with lead dust in their mouths.
- Eat paint chips or soil that contains lead.
- Breathe in lead dust (especially during renovations that disturb painted surfaces).

Lead is even more dangerous to children than adults because:

- Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.
- Children's growing bodies absorb more lead.
- Children's brains and nervous systems are more sensitive to the damaging effects of lead.



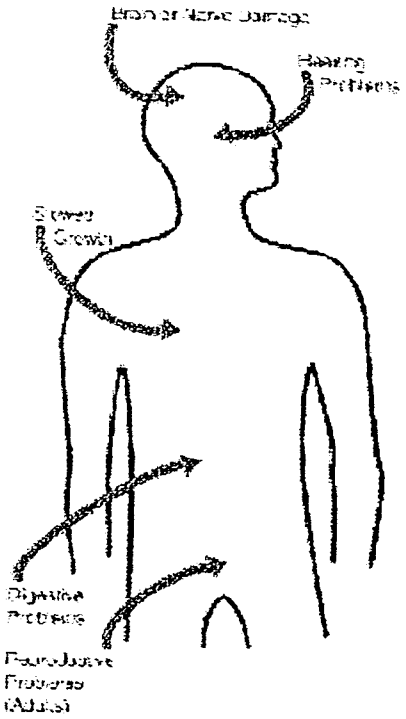
Lead's Effects

If not detected early, children with high levels of lead in their bodies can suffer from:

- Damage to the brain and nervous system
- Behavior and learning problems (such as hyperactivity)
- Slowed growth
- Hearing problems
- Headaches

Lead is also harmful to adults. Adults can suffer from:

- Difficulties during pregnancy
- Other reproductive problems (in both men and women)
- High blood pressure
- Digestive problems
- Nerve disorders
- Memory and concentration problems
- Muscle and joint pain



Lead affects the body in many ways.

Where Lead-Based Paint Is Found

In general, the older your home, the more likely it has lead-based paint.

Many homes built before 1978 have lead-based paint. The federal government banned lead-based paint from housing in 1978. Some states stopped its use even earlier. Lead can be found:

- In homes in the city, country, or suburbs.
- In apartments, single-family homes, and both private and public housing.
- Inside *and* outside of the house.
- In soil around a home. (Soil can pick up lead from exterior paint or other sources such as past use of leaded gas in cars.)

Checking Your Family for Lead

Get your children and home tested if you think your home has high levels of lead.

To reduce your child's exposure to lead, get your child checked, have your home tested (especially if your home has paint in poor condition and was built before 1978), and fix any hazards you may have. Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect high levels of lead. Blood tests are usually recommended for:

- Children at ages 1 and 2.
- Children or other family members who have been exposed to high levels of lead.
- Children who should be tested under your state or local health screening plan.

Your doctor can explain what the test results mean and if more testing will be needed.

Where Lead Is Likely To Be a Hazard

Lead-based paint that is in good condition is usually not a hazard.

Peeling, chipping, chalking, or cracking lead-based paint is a hazard and needs immediate attention.

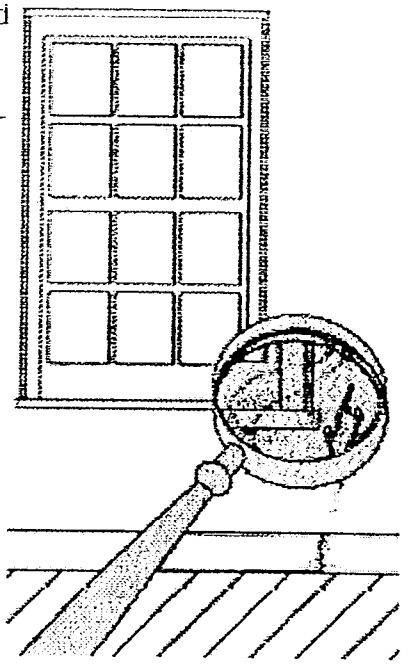
Lead-based paint may also be a hazard when found on surfaces that children can chew or that get a lot of wear-and-tear. These areas include:

- Windows and window sills.
- Doors and door frames.
- Stairs, railings, and banisters.
- Porches and fences.

Lead dust can form when lead-based paint is dry scraped, dry sanded, or heated. Dust also forms when painted surfaces bump or rub together. Lead chips and dust can get on surfaces and objects that people touch. Settled lead dust can re-enter the air when people vacuum, sweep, or walk through it.

Lead in soil can be a hazard when children play in bare soil or when people bring soil into the house on their shoes. Call your state agency (see page 11) to find out about testing soil for lead.

Lead from paint chips, which you can see, and lead dust, which you can't always see, can both be serious hazards.



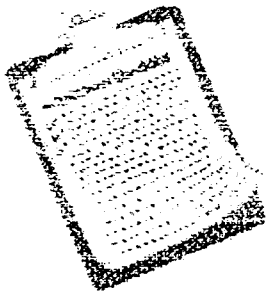
Checking Your Home for Lead Hazards

Just knowing that a home has lead-based paint may not tell you if there is a hazard.

You can get your home checked for lead hazards in one of two ways, or both:

- A paint **inspection** tells you the lead content of every different type of painted surface in your home. It won't tell you whether the paint is a hazard or how you should deal with it.
- A **risk assessment** tells you if there are any sources of serious lead exposure (such as peeling paint and lead dust). It also tells you what actions to take to address these hazards.

Have qualified professionals do the work. *There are standards in place for certifying lead-based paint professionals to ensure the work is done safely, reliably, and effectively.* Contact your state lead poisoning prevention program for more information. Call 1-800-424-LEAD for a list of contacts in your area.



Trained professionals use a range of methods when checking your home, including:

- Visual inspection of paint condition and location.
- A portable x-ray fluorescence (XRF) machine.
- Lab tests of paint samples.
- Surface dust tests.

Home test kits for lead are available, but studies suggest that they are not always accurate. Consumers should not rely on these tests before doing renovations or to assure safety.

What You Can Do Now To Protect Your Family

If you suspect that your house has lead hazards, you can take some immediate steps to reduce your family's risk:

- **If you rent, notify your landlord of peeling or chipping paint.**
- **Clean up paint chips immediately.**
- **Clean floors, window frames, window sills, and other surfaces weekly.** Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.

- **Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas.**
- **Wash children's hands often, especially before they eat and before nap time and bed time.**
- **Keep play areas clean.** Wash bottles, pacifiers, toys, and stuffed animals regularly.
- **Keep children from chewing window sills or other painted surfaces.**
- **Clean or remove shoes before entering your home to avoid tracking in lead from soil.**
- **Make sure children eat nutritious, low-fat meals high in iron and calcium,** such as spinach and dairy products. Children with good diets absorb less lead.

How To Significantly Reduce Lead Hazards

Removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.

Always use a professional who is trained to remove lead hazards safely.

In addition to day-to-day cleaning and good nutrition:

- You can **temporarily** reduce lead hazards by taking actions such as repairing damaged painted surfaces and planting grass to cover soil with high lead levels. These actions (called "interim controls") are not permanent solutions and will need ongoing attention.
- To **permanently** remove lead hazards, you must hire a certified lead "abatement" contractor. Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not enough.

Always hire a person with special training for correcting lead problems—someone who knows how to do this work safely and has the proper equipment to clean up thoroughly. Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

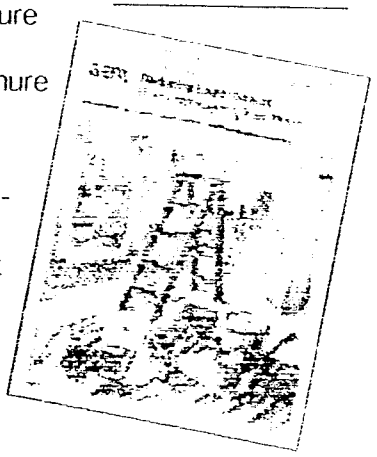
Call your state agency (see page 11) for help with locating certified contractors in your area and to see if financial assistance is available.

Remodeling or Renovating a Home With Lead-Based Paint

Take precautions before your contractor or you begin remodeling or renovations that disturb painted surfaces (such as scraping off paint or tearing out walls):

- **Have the area tested for lead-based paint.**
- **Do not use a belt-sander, propane torch, heat gun, dry scraper, or dry sandpaper** to remove lead-based paint. These actions create large amounts of lead dust and fumes. Lead dust can remain in your home long after the work is done.
- **Temporarily move your family** (especially children and pregnant women) out of the apartment or house until the work is done and the area is properly cleaned. If you can't move your family, at least completely seal off the work area.
- **Follow other safety measures to reduce lead hazards.** You can find out about other safety measures by calling 1-800-424-LEAD. Ask for the brochure "Reducing Lead Hazards When Remodeling Your Home." This brochure explains what to do before, during, and after renovations.

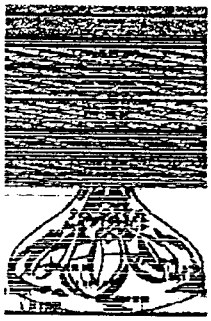
If not conducted properly, certain types of renovations can release lead from paint and dust into the air.



If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.

Other Sources of Lead

While paint, dust, and soil are the most common lead hazards, other lead sources also exist.



- **Drinking water.** Your home might have plumbing with lead or lead solder. Call your local health department or water supplier to find out about testing your water. You cannot see, smell, or taste lead, and boiling your water will not get rid of lead. If you think your plumbing might have lead in it:
  - Use only cold water for drinking and cooking.
  - Run water for 15 to 30 seconds before drinking it, especially if you have not used your water for a few hours.
- **The job.** If you work with lead, you could bring it home on your hands or clothes. Shower and change clothes before coming home. Launder your work clothes separately from the rest of your family's clothes.
- Old painted **toys** and **furniture.**
- Food and liquids stored in **lead crystal** or **lead-glazed pottery or porcelain.**
- **Lead smelters** or other industries that release lead into the air.
- **Hobbies** that use lead, such as making pottery or stained glass, or refinishing furniture.
- **Folk remedies** that contain lead, such as "greta" and "azarcon" used to treat an upset stomach.

For More Information

The National Lead Information Center

Call **1-800-424-LEAD** to learn how to protect children from lead poisoning and for other information on lead hazards. (Internet: **www.epa.gov/lead** and **www.hud.gov/lea**).

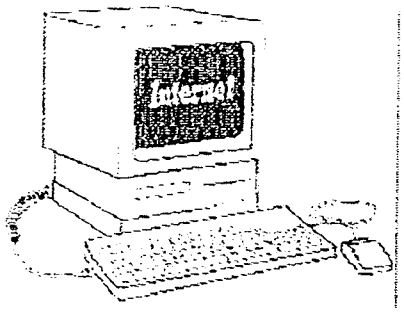
For the hearing impaired, call the Federal Information Relay Service at **1-800-877-8339** and ask for the National Lead Information Center at **1-800-424-LEAD.**

EPA's Safe Drinking Water Hotline

Call **1-800-426-4791** for information about lead in drinking water.

Consumer Product Safety Commission Hotline

To request information on lead in consumer products, or to report an unsafe consumer product or a product-related injury call **1-800-638-2772.** (Internet: www@cpsc.gov). For the hearing impaired, call **TDD 1-800-638-8270.**



State Health and Environmental Agencies

Some cities and states have their own rules for lead-based paint activities. Check with your state agency to see if state or local laws apply to you. Most state agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for state and local contacts on the Internet at **www.epa.gov/lead** or contact the National Lead Information Center at **1-800-424-LEAD.**

EPA Regional Offices

Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

EPA Regional Offices

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact
U.S. EPA Region 1
Suite 1100 (CPT)
One Congress Street
Boston, MA 02114-2023
1 (888) 372-7341

Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 209, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3 (Delaware, Washington DC, Maryland, Pennsylvania, Virginia, West Virginia)

Regional Lead Contact
U.S. EPA Region 3 (3WC33)
1650 Arch Street
Philadelphia, PA 19103
(215) 814-5000

Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
(404) 562-8998

Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Lead Contact
U.S. EPA Region 5 (DT-8J)
77 West Jackson Boulevard
Chicago, IL 60604-3666
(312) 886-6003

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue, 12th Floor
Dallas, TX 75202-2733
(214) 665-7577

Region 7 (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact
U.S. EPA Region 7
(ARTD-RALI)
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact
U.S. EPA Region 8
999 18th Street, Suite 500
Denver, CO 80202-2466
(303) 312-6021

Region 9 (Arizona, California, Hawaii, Nevada)

Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1124

Region 10 (Idaho, Oregon, Washington, Alaska)

Regional Lead Contact
U.S. EPA Region 10
Toxics Section WCM-128
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1985

CPSC Regional Offices

Your Regional CPSC Office can provide further information regarding regulations and consumer product safety.

Eastern Regional Center
6 World Trade Center
Vesey Street, Room 350
New York, NY 10048
(212) 466-1612

Central Regional Center
230 South Dearborn Street
Room 2944
Chicago, IL 60604-1601
(312) 353-8260

Western Regional Center
600 Harrison Street, Room 245
San Francisco, CA 94107
(415) 744-2966

HUD Lead Office

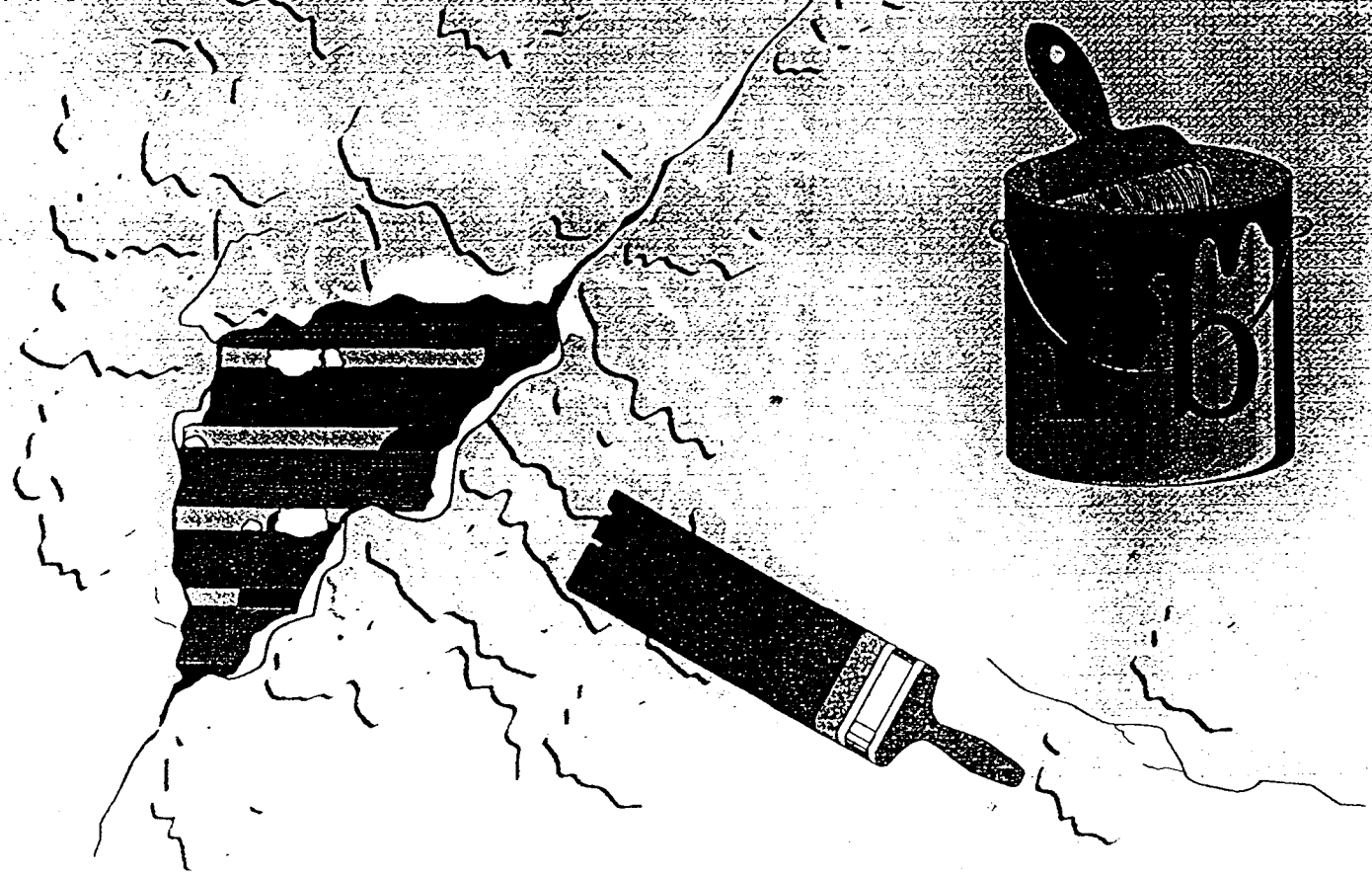
Please contact HUD's Office of Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control and research grant programs.

U.S. Department of Housing and Urban Development
Office of Lead Hazard Control
451 Seventh Street, SW, P-3206
Washington, DC 20410
(202) 755-1785

PUERTO RICO REGULATION INFORMATION

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

REGLAMENTO PARA EL CONTROL DE ACTIVIDADES DE MITIGACIÓN DE PINTURA CON BASE DE PLOMO



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CAPÍTULO I

TÍTULO, AUTORIDAD LEGAL, DEFINICIONES Y SIGLAS

REGLA 1501 - Título

Este reglamento se conocerá como el Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo.

REGLA 1502 - Autoridad Legal

Este reglamento se promulga al amparo de la autoridad conferida a la Junta de Calidad Ambiental de Puerto Rico por la Ley Número 9 del 18 de junio de 1970, Ley Sobre Política Pública Ambiental, 12 LPRA §121, et. seq., según fuera enmendada.

REGLA 1503 - Definiciones

Las palabras y frases contenidas en este Reglamento tendrán el significado que más adelante se establece. Cualquier término no definido en este Reglamento u otro Reglamento de la Junta de Calidad Ambiental tendrá el significado comúnmente utilizado en la lengua española.

ACTIVIDADES RELACIONADAS CON PINTURA CON BASE DE PLOMO

Inspecciones, evaluaciones de riesgos, diseños y mitigaciones en viviendas de riesgo e instalaciones ocupadas por niños, según definidos en este Reglamento.

ADMINISTRADOR DE ESCUELA DE ADIESTRAMIENTO

Persona responsable de dirigir un programa de adiestramiento acreditado y vigilar el desempeño de los instructores principales e instructores visitantes.

AGENDA DEL CURSO

Bosquejo de los temas principales que habrán de cubrirse durante el curso de adiestramiento, incluyendo el tiempo destinado para enseñar cada tema.

ANÁLISIS PRELIMINAR DE RIESGOS

Actividad limitada de evaluación de riesgos que comprende un muestreo limitado de pintura y particulado, según se describe en la Regla 1552 del Capítulo VI de este Reglamento.

ÁREA COMÚN

Parte de una estructura o edificación donde por lo general el uso, acceso y domonio es de todo los residentes o inquilinos.

ÁREA DE VIVIENDA

Cualquier área de una residencia donde habitan uno o más niños de seis años o menores.

COMPONENTE (S) DE UNA EDIFICACIÓN

El diseño específico o elementos estructurales o aditamentos de una estructura destinada a residencia, hospedaje, centro de cuido de niños, o cualquier otro elemento que por su forma, función, localización o caracteristicas puedan tener pintura con base de plomo.

CONTENCIÓN

Metodo utilizado para restringuir o controlar que la materia particulada contaminada con plomo que pueda ganar acceso a la atmósfera es una actividad de mitigación, remoción manejo de escombros o disposición de desperdicios con pintura con base de plomo.

CONTROLES PROVISIONALES

Conjunto de medidas diseñadas para reducir temporalmente la exposición o la posibilidad de exposición humana a los riesgos provocados por la pintura con base de plomo, incluyendo, pero sin limitarse a, la limpieza especializada, reparación, mantenimiento, pintura, contención temporera, vigilancia contínua de los riesgos o riesgos potenciales provocados por la pintura con base de plomo, tratamientos convencionales, y el establecimiento y operación de programas de educación para la administración y los residentes.

CURRÍCULO DEL CURSO DE ADIESTRAMIENTO

Conjuntos de temas establecidos, para un curso en particular, donde dependiendo de la categoría se enseña materias acreditadas en planificación, mitigación remoción e inspección de intalaciones con pintura con base de plomo, entre otros.

CURSO PARA ADIESTRAR AL INSTRUCTOR

Un curso diseñado para adiestrar a los instructores de los cursos sobre pintura con base de plomo.

DESPERDICIOS SÓLIDOS PELIGROSOS

Desperdicios que reúnan cualesquiera de las siguientes condiciones:

- exhibir cualesquiera de las características de desperdicios sólidos peligrosos o que se encuentre en el listado según la reglamentación que para estos efectos haya promulgado la Junta de Calidad Ambiental; o
- ser una mezcla de desperdicios sólidos no peligrosos con desperdicios sólidos peligrosos reglamentados.

Esta definición no incluye a los desperdicios domésticos o de minería.

DISCIPLINA

Materia de enseñanza sobre las diferentes actividades de pintura con base de plomo que se identifican en este Reglamento.

DISEÑADOR DE PROYECTOS

Persona certificada por la Junta de Calidad Ambiental para preparar diseños de proyectos de mitigación, planes de protección de residentes e informes de mitigación.

EMPRESA DE MITIGACIÓN

Compañía, sociedad, corporación, propietario exclusivo, asociación, o cualquier otra entidad comercial que realiza actividades de pintura con base de plomo y a la cual la Junta de Calidad Ambiental ha emitido un certificado de acreditación según lo dispuesto en este Reglamento.

ENCAPSULAMIENTO

Aplicación de un encapsulante (ver "Encapsulante").

ENCAPSULANTE

Sustancia que forma una barrera entre la pintura con base de plomo y el ambiente.

ENCLAUSTRAR

Utilizar materiales de construcción rígidos y de larga duración que se fijan fisicamente a la superficie de forma tal que actúen como una barrera entre la pintura con base de plomo y el ambiente.

ENTIDAD ADMINISTRADORA DE EXAMENES

Persona contratada por la Junta de Calidad Ambiental para llevar a cabo exámenes estatales de certificación.

EVALUACIÓN DE LAS DESTREZAS PRACTICAS

Prueba sobre la capacidad del adiestrado para ejecutar satisfactoriamente las prácticas de trabajo y los procedimientos identificados en este Reglamento.

EVALUACIÓN DE RIESGOS

(1) investigación en el lugar para determinar la existencia, naturaleza, severidad y localización de peligros relacionados con la pintura con base de plomo;

(2) donde se incluya un informe realizado por la persona o empresa acreditada de mitigaciòn de plomo que llevó a cabo la evaluación de riesgo, que explica los resultados de la investigación y las opciones para reducir los peligros relacionados con la pintura con base de plomo.

EXAMEN DEL CURSO

Evaluación sobre la eficacia general del adiestramiento, en la cual se comprobará la retención y conocimiento de los adiestrados sobre los temas tratados en el curso.

EXAMEN ESTATAL DE CERTIFICACIÓN

Evaluación de una disciplina en particular reconocida por la Junta de Calidad Ambiental y administrado por un administrador de exámenes de certificación.

FECHA DE INICIO

Día, mes y año en que se inician las actividades cubiertas en el permiso sobre un proyecto de mitigación de pintura con base de plomo, para el cual se requiere el uso de personas certificadas. Dichas actividades incluyen el aislamiento y preparación del área de mitigación o cualquier otra actividad que pueda alterar la pintura con base de plomo.

FECHA DE TERMINACIÓN

Fecha en la cual se termina toda actividad permitida en un proyecto de mitigación de pintura con base de plomo que requiere el uso de personas certificadas. Incluye, pero no se limita a, el desarme completo de todas las barreras del área de remoción, el muestreo final para determinar niveles de limpieza y la remoción de todo desperdicio de pintura con base de plomo.

INSPECCIÓN VISUAL PARA DETERMINAR LOS NIVELES DE LIMPIEZA

Examen visual de una residencia o instalación ocupada por niños luego de llevar a cabo una mitigación para determinar si la mitigación misma ha sido completada con éxito.

INSPECCIÓN VISUAL PARA DETERMINAR RIESGOS POR PINTURA CON BASE DE PLOMO

Examen visual de una residencia o instalación ocupada por niños para determinar la existencia de pintura con base de plomo deteriorada u otras fuentes potenciales de riesgos provocados por pintura con base de plomo.

INSPECTOR

Persona que ha sido acreditada por un programa de adiestramiento y certificada por la Junta de Calidad Ambiental para llevar a cabo inspecciones. El inspector de pintura con base de plomo también hace muestreos para detectar la presencia de plomo en la pintura, particulado y suelo, con el propòsito de determinar los niveles de limpieza luego de la mitigación.

INSTRUCTOR INVITADO

Persona acreditada por una escuela de un estado que mantiene un acuerdo de reciprocidad con el Gobierno de Puerto Rico y que ha sido designado para enseñar una o más materias específicas según lo acordado con el instructor principal o administrador de una escuela.

INSTRUCTOR PRINCIPAL

Persona que tiene la responsabilidad primaria de organizar y enseñar un curso de adiestramiento en particular.

JUNTA DE CALIDAD AMBIENTAL

Organismo del Gobierno de Puerto Rico creado por la Ley 9 del 18 de junio de 1970, según enmendada (12 L.P.R.A. §1121, et seq.), conocida como la Ley sobre Política Pública Ambiental.

LABORATORIO ACREDITADO

Un laboratorio ambiental reconocido por la Agencia Federal de Protección Ambiental, según las disposiciones de la TSCA 405 (b), 15 U.S.C. §2685 (b), que está capacitado para llevar a cabo un análisis para la detección de plomo en la pintura, suelo y particulado.

MANIFIESTO

Documento aprobado por la Junta de Calidad Ambiental para identificar la cantidad, composición, volumen, tamano, origen, ruta y destino final, según aplique, de algunos desperdicios que vayan a ser transportados en la jurisdicción de Puerto Rico, a una instalación para su manejo, almacenamiento, reciclaje, reuso, procesamiento, exportación, disposición, incineración, tratamiento o destrucción.

METODOLOGÍA DOCUMENTADA

Aquellas según se encuentran en las Guías para la Evaluación y el Control de los Peligros relacionados con la Pintura con Base de Plomo en las Viviendas, del Departamento de Vivienda y Desarrollo Urbano de Estados Unidos (HUD, por sus siglas en inglés); Orientación sobre la pintura, particulado y suelos contaminados con plomo en viviendas, de la Agencia de Protección Ambiental Federal; y los Muestreos de la Agencia de Protección Ambiental para detectar plomo en viviendas: Protocolos para muestreos de particulado y suelos; y otras reglamentaciones, métodos y protocolos de orientación emitidos por el estado y las tribus indias estadounidenses, que han sido autorizados por la EPA; y otros métodos y guías según aprobadas por la Junta de Calidad Ambiental.

MITIGACIÓN

Cualquier medida o conjunto de medidas diseñadas para eliminar permanentemente los riesgos de pintura con base de plomo, incluyendo pero sin limitarse a:

a) remoción de pintura con base de plomo y particulado contaminado con plomo; el enclaustramiento permanente o la encapsulación de la pintura con base de plomo, la sustitución de superficies o aditamentos pintados con plomo, la remoción y encubrimiento del suelo contaminado con plomo;

b) todos los preparativos, limpieza, disposición y actividades para determinar el nivel de limpieza posterior a la mitigación.

c) La mitigación en viviendas de riesgo e instalaciones ocupadas por niños incluye, pero no se limita a:

   1. proyectos para los cuales existe un contrato escrito o cualquier otra documentación que disponga que una persona, o empresa de mitigación de pintura con base de

plomo, llevará a cabo actividades en o a una vivienda o instalación ocupada por niños, que resultarán en la eliminación permanente de los peligros relacionados con la pintura de plomo o que fueron diseñadas para eliminar los riesgos provocados por pintura con base de plomo, incluyendo la pintura, el particulado y el suelo contaminado con plomo;

2. proyectos que incluyen la eliminación permanente de los riesgos provocados por la pintura con base de plomo, incluyendo la pintura, el polvo o el suelo contaminado con plomo, llevados a cabo por empresas mitigadoras de plomo o por personas certificadas de acuerdo con el Capítulo V de este Reglamento, con la excepción de aquellos proyectos que se rijan con el inciso (d) de esta definición;

3. proyectos que incluyen la eliminación permanente de los riesgos provocados por la pintura con base de plomo, incluyendo la pintura, el particulado o el suelo contaminado con plomo, llevados a cabo por empresas o personas, quienes, mediante sus nombres comerciales o sus folletos de promoción o de cualquier otro modo, representan, anuncian o sostienen ser parte del negocio de realizar actividades relacionadas con pintura con base de plomo según se definen en estas Reglas, con excepción de aquellos proyectos que se rijan por el inciso (d) de esta definición; o

4. proyectos que incluyen la eliminación permanente de los riesgos provocados por la pintura con base de plomo, incluyendo a la pintura, el particulado o el suelo contaminado con plomo, que se llevan a cabo como resultado de órdenes estatales, federales o municipales de mitigación.

(d) La mitigación no incluye renovación, remodelación, jardinería paisajista u otras actividades, cuando tales actividades no fueron diseñadas para eliminar permanentemente los peligros de la pintura con base de plomo y por el contrario, fueron diseñadas para reparar, restaurar o remodelar una vivienda o estructura en específico, aun cuando dichas actividades puedan, de forma incidental, resultar en una reducción o eliminación de peligros relacionados con la pintura con base de plomo. Además, la mitigación no incluye actividades provisionales de control, operación y mantenimiento, u otras medidas o actividades diseñadas para reducir, de forma temporera y no permanente, los peligros relacionados con la pintura con base de plomo.

NIÑO

Para efectos de este Reglamento de seis años de edad o menor.

NIVEL ELEVADO DE PLOMO EN SANGRE

Absorción excesiva de plomo que resulta en una concentración confirmada de plomo en la sangre de 20 ug/dl (microgramos de plomo por decilitros de sangre) en una sola prueba venosa o de 15-19 ug/dl en dos pruebas venosas consecutivas tomadas con una diferencia de tres (3) a cuatro (4) meses.

NIVELES DE LIMPIEZA

Valor que indica la cantidad máxima permitida de particulado con plomo sobre una superficie al finalizar una actividad de mitigación.

PARTICULADO CONTAMINADO CON PLOMO

Polvo superficial en viviendas o en otras instalaciones ocupadas por niños que contiene un área o lugar donde se excedan los limites o umbrales establecidos mediante este Reglamento.

PERSONA

Entidad jurídica, persona o grupo de entidades privadas o públicas que tengan responsabilidad sobre cualquier actividad controlada por este Reglamento. Esto incluye agencias federales y estatales, municipios, consorcios y corporaciones públicas y privadas, asociaciones, cooperativas, fideicomisos y sociedades.

PINTURA CON BASE DE PLOMO

Pintura o cualquier otro revestimiento de superficies que contenga plomo equivalente a, o en exceso de, 1.0 miligramo por centímetro cuadrado (1.0 mg/cm^2) ó 5,000 partes por millón o más.

PINTURA DETERIORADA

Pintura que se está agrietando, descascarando, pelando en hojuelas, o que muestra apariencia caliza, o despegándose de cualquier otro modo del substrato de un componente de la edificación.

PINTURA EN MALAS CONDICIONES

Más de diez (10) pies cuadrados o que posee un componente con superficies pequeñas sea interior o exterior cuyo deterioro excede el diez porciento (10%) de la superficie de dicho componente.

PARTICULADO CONTAMINADO CON PLOMO

Polvo superficial en viviendas o en otras instalaciones ocupadas por niños que contiene un área o lugar donde se excedan los limites o umbrales establecidos mediante este Reglamento.

PLAN DE CERTEZA DE CALIDAD

Plan o diseño que asegure la autenticidad, integridad y precisión de muestras representativas en un analisis de suelo, polvo, hojuelas o láminas de pintura.

PLAN DE PROTECCIÓN DE RESIDENTES

Documento escrito que describe las medidas y los procedimientos de administración que se llevarán a cabo durante la mitigación para proteger a los residentes de las edificaciones contra la exposición a los riesgos provocados por la pintura con base de plomo. El plan será uno particular para cada unidad de vivienda o instalación ocupada por niños. Para proyectos de menos de cinco (5) unidades, el plan será preparado por un supervisor o un diseñador de proyectos. Para proyectos de cinco (5) unidades o más, el plan será preparado por un diseñador de proyectos. El plan incluirá la firma y el número de la certificación de quien lo prepara.

PROCEDIMIENTO DE LIXIVIACIÓN PARA LA CARACTERISTICA DE TOXICIDAD

Prueba de laboratorio que se utiliza para determinar los niveles de extracción de plomo u otros contaminantes organicos o inorganicos solidos o semisolidos.

PROGRAMA ACREDITADO

Programa de adiestramiento que ha sido acreditado por la Junta de Calidad Ambiental, conforme a este Reglamento para proveer adiestramiento a personas que se dedican a actividades relacionadas con pinturas con base de plomo.

PROYECTO URGENTE

Evento de mitigación de pintura con base de plomo que fue catalogado por un evaluador de riesgos y/o por la Junta de Calidad Ambiental como un riesgo inminente provocado por pintura con base de plomo para los residentes de una vivienda o una instalación ocupada por niños.

PROYECTO PARA LA MITIGACIÓN DE PINTURA CON BASE DE PLOMO

Mitigación de una o más unidades de viviendas y/o instalaciones ocupadas por niños, que estén localizadas dentro del mismo municipio y que hayan sido presentadas bajo una misma solicitud de permiso.

REDUCCIÓN

Medidas diseñadas para reducir o eliminar la exposición humana a los riesgos provocados por la pintura con base de plomo mediante métodos que incluyen controles provisionales y mitigación.

RIESGOS PROVOCADOS POR PINTURA CON BASE DE PLOMO

Cualquier situación que cause que una persona este expuesta al plomo proveniente del particulado, suelo o de pintura contaminada con plomo que esté deteriorada o presente en superficies accesibles, sujetas a fricción, o sujetas a impactos. Dicha exposición puede resultar en efectos adversos para la salud humana.

SUELO CONTAMINADO CON PLOMO

Terreno con poca o ninguna vegetación ubicado en una propiedad inmueble residencial o en una instalación ocupada por niños que contiene plomo en o en exceso de los niveles identificados en este Reglamento.

SUELO CUBIERTO PERMANENTEMENTE

Suelo que se ha separado del contacto humano mediante una barrera que consiste de materiales sólidos relativamente impermeables, tales como pavimento u hormigón o cualquier otra metodología establecida por la Junta de Calidad Ambiental.

SUPERFICIE ACCESIBLE

Superficie interior o exterior que contiene pintura con base de plomo y que por su accesibilidad un niño pueda introducirla en la boca y masticarla.

SUPERFICIE SUJETA A FRICCIÓN

Superficie interior o exterior que está expuesta a fricciones o abrasiones, incluyendo, pero sin limitarse a, la superficie de ciertas ventanas, escaleras y pisos.

SUPERVISOR

Persona que ha sido adiestrada mediante un programa de adiestramiento acreditado y certificado por la Junta de Calidad Ambiental para supervisar y llevar a cabo mitigaciones.

TRABAJADOR

Persona que ha sido adiestrada mediante un programa de adiestramiento acreditado y certificado por la Junta de Calidad Ambiental para ejecutar actividades de mitigación de pintura con base de plomo.

U.S. ENVIRONMENTAL PROTECTION AGENCY (AGENCIA FEDERAL DE PROTECCION AMBIENTAL)

Organismo del gobierno de los Estados Unidos de América encargado de la protección del ambiente, creado bajo el Plan de Reorganización Número 3 del 1970 (40 Code of Federal Regulations Part 1).

VIVIENDA

(a) una unidad de vivienda independiente para una sola familia, incluyendo las estructuras adjuntas, tales como terrazas y pórticos; o

(b) una unidad de vivienda para una sola familia en una estructura que contiene más de una unidad de vivienda independiente que se utilice o esté ocupada, o se pretenda utilizar u ocupar, en su totalidad o en parte, como el hogar o la residencia de una o más personas.

VIVIENDA DE RIESGO

Cualquier vivienda construida antes de 1978, con excepción de aquellas viviendas para envejecientes o personas con incapacidades (salvo si un niño de seis años de edad o menos viva o vaya a vivir en dicha residencia para envejecientes o incapacitados) o cualquier vivienda sin facilidades de dormitorio separado.

VIVIENDA MULTIFAMILIAR

Una estructura que tiene más de una unidad de vivienda independiente que se utiliza u ocupa, o se va a utilizar u ocupar, en su totalidad o en parte como el hogar o la vivienda de una o más personas.

REGLA 1504 - Siglas

CFR -	Code of Federal Regulations (Código de Reglamentos Federales)
EBL -	Elevated Blood Level (Niveles de Sangre Elevados)
EPA -	Environmental Protection Agengy (Agencia de Protección Ambiental)
HEPA-	High Efficiency Particulate Air Filter (Filtro de Alta Eficiencia para Partículas En el Aire)
HUD-	Housing and Urban Development (Agencia de Desarrollo Residencial y Urbano)
ppm-	partes por millón
ppb-	partes por billón
RCRA-	Resource Conservation Recovery Act (Ley para la Conservación y la Recuperación de los Recursos
TCLP-	Toxicity Characteristic Leaching Procedure (Procedimiento de Lixiviación para las Caracteristicas de Toxicidad).
TSCA-	Toxic Substance and Control Act (Ley para el Control de Sustancias Tóxicas)
ug/cm^2-	microgramos por centímetro cuadrado
ug/dL-	microgramos por decilitro
ug/ft^2-	microgramos por pie cuadrado
USC-	United States Code (Código de los Estados Unidos)

XRF- X-Ray Fluorescence Analyzer Device (Analizador Fluorecente de Rayos X)

REGLA 1504 -1509 - Reservadas

CAPÍTULO II
DISPOSICIONES GENERALES

REGLA 1510 – Propósito

En 1978, el Congreso de Estados Unidos aprobó un proyecto de ley que prohibe la fabricación de pintura con base de plomo. Esta medida fue tomada como resultado de estudios alarmantes que mostraron que la pintura con base de plomo causa daños graves e irreversibles al cuerpo humano. El plomo afecta especialmente a los niños de seis años de edad o menores, debido a que sus cuerpos están en desarrollo.

En 1992, el Congreso aprobó la "Ley sobre la Reducción de Riesgos Provocados por la Pintura con Base de Plomo en Residencias" (Residential Lead Based Paint Hazard Reduction Act). Esta ley propone establecer un sistema a nivel federal y estatal que provea el esquema para la certificación de los individuos que realizan actividades de mitigación. Además, establece un sistema de acreditación para las instituciones que ofrecen los cursos necesarios para la certificación.

Como consecuencia de la "Ley sobre la Reducción de Riesgos Provocados por la Pintura con Base de Plomo", se enmendó la "Ley para el Control de Sustancias Tóxicas" para incluir el Título IV. TSCA fomenta la intervención de los estados en el proceso de acreditación y certificación mediante la asignación de fondos a la Agencia de Protección Ambiental Federal (EPA, por sus siglas en inglés)., a su vez, distribuye dichos fondos a los estados que interesaran implantar programas similares. Es en esta etapa que la Junta de Calidad Ambiental interviene en la implantación del Proyecto de Certificación y Permisos sobre Pintura con Base de Plomo.

A través de este programa, la Junta de Calidad Ambiental interesa crear un proyecto de certificación y acreditación que establezca normas para asegurar que los individuos que participen en las actividades relacionadas con pintura con base de plomo estén debidamente adiestrados por un personal competente, conocedor de las prácticas de trabajo aceptables y los adelantos tecnológicos más recientes. Crear tales normas promoverá y desarrollará una fuerza trabajadora calificada y

adiestrada, capaz de llevar a cabo dichas actividades de acuerdo con las normas de prácticas de trabajo más seguras, confiables y eficaces. La meta primordial de la Junta de Calidad Ambiental es poder salvaguardar el ambiente y proteger la salud y el bienestar del pueblo.

Regla 1511 – Alcance y Aplicabilidad

A. Este Reglamento contiene los procedimientos y requisitos necesarios para la acreditación de programas de adiestramiento y procedimientos para la certificación de personas y empresas dedicadas a realizar actividades relacionadas con pintura con base de plomo y establece normas para llevar a cabo tales actividades. Este Reglamento también requiere que todas las actividades relacionadas con pintura con base de plomo en viviendas de riesgo o instalaciones ocupadas por niños sean ejecutadas por personas y empresas certificadas. Este Reglamento no requiere la mitigación obligatoria de pintura con base de plomo.

B. Este Reglamento aplica a todas las personas o empresas dedicadas a actividades relacionadas con pintura con base de plomo según se definen en este Reglamento, con excepción de aquellas personas que ejecutan estas actividades en una vivienda de su propiedad, salvo en el caso de que dicha vivienda esté ocupada mientras estas actividades se estén llevando a cabo por otra persona(s) que no sea(n) el dueño o su familia inmediata o cuando se haya determinado que un niño que resida en el edificio tiene niveles altos de plomo en la sangre. Cada departamento, agencia o rama del poder ejecutivo, legislativo o judicial del Estado Libre Asociado de Puerto Rico con jurisdicción sobre cualquier propiedad o instalación, o dedicado a cualquier transacción que resulte, o pueda resultar en, un riesgo relacionado con la pintura con base de plomo; y todo oficial, agente o empleado de los mismos, estará sujeto a, y obligado a cumplir con todos los requisitos, tanto sustantivos como procesales, sobre a la pintura con base de plomo, a sus actividades y sus riesgos.

C. Este Reglamento no excluye el procesamiento legal contra una persona por violaciones a otros reglamentos aplicables de la Junta de Calidad Ambiental u otras leyes o reglamentos federales o estatales.

D. Todo desperdicio generado por actividades de mitigación de pintura con base de plomo que tenga menos de cinco partes por millón (5.00 ppm) de plomo, según la prueba de TCLP, en muestras que sean estadísticamente representativas según lo establece la metodología documentada, se rigen por las disposiciones de este Reglamento y del Reglamento para el Manejo de Desperdicios Sólidos No Peligrosos de la Junta de Calidad Ambiental, siempre y cuando dichas disposiciones sean consistentes con este Reglamento. El plomo generado por actividades de pintura con base plomo que sea igual o exceda cinco partes por millón (5.00 ppm) de plomo en la prueba de TCLP será considerado un desperdicio peligroso y, por lo tanto, se rige por las disposiciones del Reglamento para el Control de Desperdicios Sólidos Peligrosos de la Junta de Calidad Ambiental.

E. Todo programa de adiestramiento que ofrezca cursos de mitigación de pintura con base de plomo deberá solicitar acreditación de la Junta de Calidad Ambiental y cumplir con los requisitos establecidos bajo este Reglamento dentro de los noventa (90) días a partir de la fecha de efectividad de este Reglamento.

F. Todo individuo o empresa involucrada en actividades de mitigación de pintura con base de plomo deberá solicitar una certificación a la Junta de Calidad Ambiental y cumplir con los requisitos establecidos bajo este Reglamento dentro de los ciento ochenta (180) días a partir de la fecha de efectividad del Reglamento.

G. Todo individuo que ha recibido adiestramiento de un programa de adiestramiento entre las fechas de junio de 1995 y la fecha de efectividad de este Reglamento podrá solicitar certificación de la Junta de Calidad Ambiental según provee la Regla 1546 de este Reglamento, dentro de ciento ochenta (180) días a partir de la fecha de efectividad del Reglamento.

H. Cualquier empresa que realice actividades de mitigación de pintura con base de plomo deberá solicitar un permiso de la Junta de Calidad Ambiental según la Regla 1550 de este Reglamento y cumplir con los requisitos establecidos bajo este Reglamento dentro de doscientos cuarenta (240) días a partir de la fecha de efectividad del Reglamento.

Regla 1512 - Inspecciones de Cumplimiento; Autoridad para Entrar

A. La Junta de Calidad Ambiental representada por sus miembros, agentes o empleados, podrá entrar y examinar el lugar, equipo, facilidades y documentos de cualquier individuo, entidad, empresa, agencia o intrumentalidad gubernamental sujeta a su jurisdicción para investigar y/o inspeccionar las condiciones ambientales.

B. En caso de que a un funcionario identificado de la Junta de Calidad Ambiental se le niegue el acceso o se le impida realizar una inspección, la Junta de Calidad Ambiental podrá emitir una Orden Administrativa u obtener una Orden Judicial, según los procedimientos establecidos bajo la Ley de Política Pública Ambiental.

C. Cualquier documento o copia que sea entregada por petición de la Junta de Calidad para inspeccionar documentos, deberá ser sometida dentro de un período de cuarenta y ocho (48) horas o según determine la Junta de Calidad Ambiental.

Regla 1513 - Claúsula de Separabilidad

En caso de que alguna disposición de este Reglamento fuera declarada ilegal o insconstitucional mediante dictamen de un tribunal, el mismo no afectará el resto de las disposiciones de este Reglamento, ya que cada una se considera separada de las demás.

Regla 1514- Disposiciones Conflictivas o Contradictorias

Cuando dos o más disposiciones de este Reglamento sean aplicables a la misma situación de hechos y éstas resultaran ser contradictorias o conflictivas entre sí, se aplicará la que sea más restrictiva. Si surgieran conflictos o contradicciones entre las disposiciones de este Reglamento y cualesquiera otras disposiciones legales o reglamentarias administradas por una agencia gubernamental con jurisdicción y estas últimas resultasen ser más restrictivas que las primeras, sólo se aplicarán las disposiciones más restrictivas. No obstante, nada de lo dispuesto por esta Regla deberá interpretarse como que exime a alguna persona de tener que cumplir con las reglas y los requisitos que le sean exigibles por dichas agencias, aún cuando dichas reglas o requisitos sean menos restrictivos que las disposiciones de este Reglamento.

Reglas 1515 – Derogación

Este Reglamento deroga cualquier disposición, resolución, reglamentación anterior de la Junta de Calidad Ambiental que pueda ser inconsistente con el mismo.

Reglas 1516 - 1519 – Reservadas

CAPÍTULO III

REQUISITOS Y PROHIBICIONES GENERALES

Regla 1520 – Prohibiciones Generales

A. Ninguna persona actuará en violación o permitirá que se violen los requisitos establecidos al amparo de este Reglamento.

B. Ninguna persona creará o permitirá que se cree un daño real o potencial al ambiente o a la salud, seguridad y el bienestar público debido a contaminación causada por actividades relacionadas con pintura con base de plomo, según se definen en este Reglamento.

C. Ninguna persona causará, o permitirá que otros causen, la generación, almacenamiento, recolección, transportación, recuperación, disposición o manejo de desperdicios generados por actividades relacionadas con pintura con base de plomo, en violación a los requisitos establecidos al amparo de este Reglamento o de los permisos autorizados a raíz del mismo. Ninguna persona violará las leyes o reglamentos promulgados por la Junta de Calidad Ambiental, o cualesquiera otras leyes, reglamentos o requisitos federales o estatales aplicables.

D. Ninguna persona proveerá o incluirá información falsa o errónea en cualquier documento que se presente ante la Junta de Calidad Ambiental, de conformidad con este Reglamento. Ninguna persona permitirá que se someta este tipo de información a la Junta de Calidad Ambiental o a sus oficiales.

E. Ninguna persona causará, o permitirá que otros causen, la generación, almacenaje, recolección,transporte, recuperación, disposición o manejo de desperdicios generados por actividades relacionadas con pintura con base de plomo, si éstas afectan o destruyen cualquier planta o animal amenazado o en peligro de extinción.

F. Ninguna persona podrá realizar o permitir que se realicen trabajos de mitigación, remoción

o disposición de desperdicios con contenido de plomo sin la debida acreditación y de haber tomado un curso de adiestramiento y aprobado las correspondientes pruebas de capacitación de la Junta de Calidad Ambiental.

G. Ninguna persona o institución publicará, ofrecerá u otorgará certificaciones de acreditación, sin haber cumplido con todo los requisitos de un programa de adiestramientos para la mitigación de pintura con base de plomo sin antes haber sido acreditada por la Junta de Calidad Ambiental.

Regla 1521- Incumplimiento

El incumplimiento de cualesquiera de los requisitos aquí establecidos o de cualquier condición de permiso emitido a raíz de este Reglamento constutuirá una violación a este Reglamento. Toda persona que viole estas reglas será sometido a penalidades administrativas según dispone la Ley sobre Política Pública Ambiental, Ley Número 9 del 18 de junio de 1970, 12 LPRA §1121, según fuere enmendada.

Regla 1522-1529 - Reservadas

CAPÍTULO IV

ACREDITACION DE PROGRAMAS DE ADIESTRAMIENTO

Regla 1530 Alcance

A. El administrador de escuela de adiestramiento podrá solicitar acreditación para ofrecer cursos de adiestramiento en cualesquiera de las siguientes disciplinas: Inspector, Evaluador de Riesgos, Supervisor, Diseñador de Proyectos y Trabajador en mitigación de pintura con base de plomo. Además puede también solicitar la acreditación para ofrecer cursos de repaso para cada una de las disciplinas antes mencionadas. El administrador de escuela de adiestramiento que interese la acreditación para ofrecer cursos iniciales o de repaso enseñados en español o inglés, deberá cumplir con los requisitos de esta Regla.

B. El administrador de escuela de adiestramiento podrá solicitar acreditación para cursos iniciales o de repaso en cuantas disciplinas desee. Además podrá solicitar acreditación para cursos adicionales en cualquier momento, siempre y cuando el programa pueda demostrar que cumple con los requisitos de este Capítulo.

C. El administrador de escuela de adiestramiento no proveerá, ofrecerá, o dirá que provee los cursos de adiestramiento acreditados por la Junta de Calidad Ambiental sin antes solicitar y recibir la acreditación de la Junta de Calidad Ambiental, según se requiere en este Capítulo.

D. Los cursos de adiestramiento serán evaluados por la Junta de Calidad Ambiental basándose, entre otros, en lo siguiente: (1) la administración del curso, (2) la duración del curso, (3) el currículo, (4) los métodos de adiestramientos, (5) las calificaciones del instructor, (6) la eficiencia de la enseñanza del instructor, (7) la precisión técnica de los materiales e instrucciones escritas, (8) los exámenes, (9) el certificado de adiestramiento y (10) cualquier otra información que la Junta de Calidad Ambiental determine necesaria. La evaluación *se* llevará a cabo de acuerdo a los requisitos establecidos en este Capítulo y cualquier metodología documentada a la cual se haga referencia.

E. El administrador de escuela de adiestramiento permitira que la Junta de Calidad Ambiental asista, evalúe e inspeccione cualquier curso de adiestramiento, el examen del curso y tenga acceso a los expedientes de los cursos de adiestramiento sin cargos ni impedimentos para la Junta de Calidad Ambiental para propósitos de evaluar el cumplimiento con este Reglamento. La Junta de Calidad Ambiental llevará a cabo revisiones periódicas y sin aviso previo de dichos cursos de adiestramiento.

F. A todo programa de adiestramiento acreditado se le asignará un número de acreditación y se le emitirá un certificado para cada curso acreditado y aprobado por la Junta de Calidad Ambiental.

G. Toda acreditación expirará a los doce (12) meses contados a partir de la fecha en que la Junta de Calidad Ambiental emitió la acreditación. Administrar cursos de adiestramiento luego del vencimiento de la acreditación y antes de la renovación de dicha acreditación, constituirá una violación de este Reglamento.

H. Para mantenerse acreditado, los programas de adiestramiento deberán seguir los requisitos establecidos en la Regla 1536 de este Capítulo.

Regla 1531 - Proceso de Solicitud

Los procedimientos y requisitos que un solicitante debe satisfacer al momento de solicitar la acreditación a la Junta de Calidad Ambiental son los siguientes:

A. El administrador de escuela de adiestramiento que solicite acreditación deberá presentar los siguientes documentos en conformidad con los requisitos establecidos en las Reglas 1532 a 1535 de este Capítulo, que deben incluir, sin limitarse a:

1. una solicitud completada en los formularios provistos por la Junta de Calidad Ambiental, con la información necesaria y pertinente, y firmada por el administrador de escuela de adiestramiento. Esta información deberá incluir, pero sin limitarse a, el nombre, la dirección, el número de teléfono del programa de adiestramiento, y una

el nombre, la dirección, el número de teléfono del programa de adiestramiento, y una lista de todos los cursos para los cuales el programa solicita acreditación;

2. una declaración firmada por el administrador de escuela de adiestramiento que certifique que el programa de adiestramiento satisface los requisitos mínimos establecidos en este Reglamento;

3. una declaración del administrador de escuela de adiestramiento que certifique que el programa de adiestramiento cumplirá en todo momento con todos los requisitos establecidos en este Capítulo. La declaración también deberá incluir que el administrador de escuela de adiestramiento será responsable de mantener la validez y la integridad de la evaluación de las destrezas prácticas para asegurar que evalúa adecuadamente el desempeño de los adiestrados en las prácticas y procedimientos de trabajo asociados con cada tema del curso. También deberá establecer que el administrador de escuela de adiestramiento será responsable de mantener la validez y la integridad de los exámenes del curso para asegurar que éstos evalúen adecuadamente el conocimiento y la retención del adiestrado sobre los temas del curso;

4. una cuota de radicación por la suma de cien dólares ($100) y una cuota por acreditación de cuatrocientos dólares ($400) por cada día de ocho horas para cada curso de adiestramiento, pagadera mediante cheque certificado o giro postal a favor de la Junta de Calidad Ambiental - Proyecto de Plomo. Las cuotas de acreditación se basan en ocho horas diarias de adiestramiento para cada curso de adiestramiento. En casos de cursos de adiestramiento de menos de ocho horas, se pagará un mínimo de cuatrocientos dólares ($400). La cuota inicial de radicación no es reembolsable;

5. una copia de los manuales de estudiantes y los manuales de instructores que se utilizarán para cada curso de adiestramiento en el idioma en el cual se dicten los cursos (español o inglés). Esto incluye, además, una lista de cotejo sobre el contenido del curso que identifique y localice las secciones del manual donde se cubren los temas requeridos;

horas de comienzo , terminación diarias y el tiempo destinado para enseñar cada tema del curso;

7. una copia del examen del curso para cada curso de adiestramiento con las respuestas correctas marcadas para cada una de las preguntas del examen;
8. una descripción de las instalaciones y el equipo que se utilizará para la conferencia, el examen del curso y la enseñanza de destrezas prácticas;
9. una copia o descripción de todo material auditivo y/o visual que habrá de utilizarse en cada curso;
10. una copia del esquema del examen del curso para cada curso;
11. una descripción detallada de cada actividad de enseñanza de destrezas prácticas y de evaluación de destrezas, incluyendo los criterios para determinar el aprovechamiento del estudiante;
12. una descripción detallada de los objetivos de aprendizaje o ejecución que habrán de enseñarse para cada tema del curso;
13. una copia del plan de certeza de calidad;
14. un modelo de un certificado original de terminación del curso que deberá incluir:
    (a) nombre, dirección y número de Seguro Social del estudiante;
    (b) título del curso de adiestramiento que especifique si es un curso inicial o de repaso;
    (c) fecha entre el curso de adiestramiento y la aprobación del examen del curso aplicable;
    (d) declaración que el estudiante completó el curso y aprobó los requisitos del examen y la evaluación de las destrezas prácticas;
    (e) el número de identificación particular del certificado;
    (f) el nombre y la firma del administrador de escuela de adiestramiento impresos y el nombre impreso del (los) instructor(es) principal(es);
    (g) el nombre, dirección y número de teléfono del programa de adiestramiento;
    (h) localización del curso de adiestramiento, si fuese diferente a la del programa de adiestramiento;

(h) localización del curso de adiestramiento, si fuese diferente a la del programa de adiestramiento;

(i) fecha de expiración del certificado, es decir, dos (2) años a partir de la fecha de terminación del curso;

(j) idioma en que se administró el curso (español o inglés); y

(k) la fecha de acreditación del curso y el nombre de la agencia que emitió la acreditación.

15. cualquier otra información que la Junta de Calidad Ambiental estime necesaria.

B. Procedimientos para la acreditación del curso de adiestramiento:

1. La Junta de Calidad Ambiental revisará la solicitud de acreditación y la documentación presentada en conformidad con la Regla 1531 (A) de este Capítulo y le notificará al solicitante sobre cualquier deficiencia. Si las deficiencias no se corrigiesen dentro de un término de seis (6) meses a partir de la fecha de la solicitud, la solicitud y cualquier otra documentación podrá devolverse al solicitante y se le requerirá al solicitante que vuelva a presentar una solicitud completa en conformidad con el inciso (A) de esta Regla. La aprobación de la documentación presentada no constituye la acreditación del curso.

2. Si la documentación presentada satisface todo los requisitos de las Reglas 1531 a 1535, la Junta de Calidad Ambiental aprobará la solicitud y notificará.

3. Oficiales de la Junta de Calidad Ambiental llevarán a cabo auditorías periódicas a los programas de adiestramientos para verificar que cumplen con este Reglamento.

Regla 1532 - Requisitos Mínimos para la Acreditación de los Programas de Adiestramiento

Para que el administrador de escuela de adiestramiento pueda obtener y mantener una acreditación de la Junta de Calidad Ambiental para ofrecer cursos sobre actividades relacionadas con la pintura con base de plomo, el programaa deberá satisfacer y mantener los siguientes requisitos mínimos para cada disciplina en la cual solicita la acreditación:

A. El programa de adiestramiento deberá emplear un administrador de escuela de adiestramiento que posea:

1. al menos dos (2) años de experiencia, educación o adiestramiento en la enseñanza de trabajadores o adultos; o
2. un bachillerato o un grado universitario post-graduado en tecnología de construcción de edificios, ingeniería, higiene industrial, biología, ciencias físicas, seguridad, salud pública, educación, administración de empresas, administración de programas o en un campo relacionado; o
3. dos años (2) de experiencia en la administración de programas de adiestramiento especializados en riesgos ambientales; y
4. experiencia, educación o adiestramiento comprobados en la industria de la construcción, que incluye: mitigación de asbesto o plomo, pintura, carpintería, renovación, remodelación, seguridad y salud ocupacional, o higiene industrial.

B. El administrador de escuela de adiestramiento deberá nombrar a un instructor principal acreditado para cada curso, El instructor calificado deberá:

1. demostrar experiencia, educación o adiestramiento en la enseñanza de trabajadores o adultos; y
2. completar con éxito un curso de adiestramiento en mitigación relacionada con pintura de. plomo de un programa de adiestramiento acreditado en la(s) disciplina(s) específica(s) que el instructor enseñará, con un mínimo de dieciseis (16) horas de adiestramiento; y
3. demostrar que tiene dos (2) años de experiencia, educación o adiestramiento en: mitigación de asbestos o plomo, pintura, carpintería, renovación, remodelación, seguridad y salud ocupacional, o higiene industrial.

C. El instructor principal será responsable de la organización del curso y de supervisar la enseñanza del currículo. El administrador de escuela de adiestramiento podrá designar instructores invitados, según sea necesario, para enseñar materias específicas sobre los cursos de adiestramiento, o sea, conferencias, actividades de enseñanza práctica o en prácticas de trabajo.

D. El administrador de escuela de adiestramiento podrá nombrar uno (1) o más instructores invitados para cada curso de adiestramiento para enseñar actividades prácticas o prácticas de trabajo, o ambas. El instructor invitado deberá:

1. tener experiencia, educación o adiestramiento en la enseñanza de trabajadores o adultos; y
2. completar un curso de adiestramiento en mitigación relacionada con pintura de plomo en un programa acreditado en la(s) disciplina(s) específica(s) que el instructor interesa enseñar, con un mínimo de 16 horas de adiestramiento; y
3. tener al menos dos (2) años de experiencia, educación o adiestramiento en las disciplinas que enseña.

E. La Junta de Calidad Ambiental reconocerá los siguientes documentos como prueba de que los administradores de escuelas de adiestramiento, los instructores principales y los instructores invitados satisfacen los requisitos educacionales, de experiencia de trabajo y de adiestramiento, o cualesquiera de ellos, los cuales se enumeran específicamente en los incisos (A), (B) y (D) de esta Regla. Estos documentos deberán ser presentados con la solicitud de acreditación del programa de adiestramiento:

1. una copia de la transcripción académica oficial o el diploma como prueba de que satisface los requisitos académicos;
2. compendio, cartas de referencias o documentos relativos a su experiencia de trabajo, como prueba de que satisface los requisitos de experiencia de trabajo. Estos documentos deberán incluir, sin limitarse a, el historial de trabajo que documente la experiencia relacionada, incluyendo las fechas de trabajo; nombre, dirección y

3. una copia de los certificados de los cursos de adiestramiento para instructores y cursos específicos sobre mitigación de pintura con base de plomo, como prueba de haber cumplido con los requisitos de adiestramiento.

F. El administrador de escuelas de adiestramiento asegurará la disponibilidad y proveerá las comodidades necesarias para, dictar las conferencias, administrar los exámenes del curso, dar el adiestramiento de destrezas prácticas y evaluar las actividades. Esto incluye proveer equipo de adiestramiento que refleje las prácticas de trabajo actuales, y mantener al día los equipos y las instalaciones, según sea necesario. El administrador de escuelas de adiestramiento deberá notificar a la Junta de Calidad Ambiental cualquier cambio de dirección.

G. El administrador de escuela de adiestramiento será responsable de asegurar que los instructores enseñen precisamente el currículo del curso de adiestramiento que fue acreditado por la Junta de Calidad Ambiental.

H. Para cada curso ofrecido, el administrador de escuela de adiestramiento deberá llevar a cabo una evaluación de destrezas prácticas, si aplica, y un examen del curso a libro cerrado. Para terminar con éxito el curso de adiestramiento, cada estudiante deberá asistir a por lo menos el noventa y cinco por ciento (95%) del curso de adiestramiento, completar con éxito las evaluaciones de las destrezas prácticas, y aprobar el examen con un setenta por ciento (70%) o más de respuestas correctas. El administrador de escuela de adiestramiento otorgará un certificado de terminación del curso a los estudiantes que aprueben el curso.

1. El administrador de escuela de adiestramiento es responsable de mantener la validez y la integridad de la evaluación de las destrezas prácticas para asegurar que evalúa con precisión el desempeño de los adiestrados en las prácticas y procedimientos de trabajo asociados con los temas de los cursos del programa de adiestramiento, de conformidad con la Regla 1533 de este Capítulo.
2. El administrador de escuela de adiestramiento es responsable de mantener la validez y la integridad del examen del curso para asegurar que este evalúe con precisión el

conocimiento y la retención que tiene el adiestrado sobre los temas del curso.

3. El examen del curso será desarrollado de acuerdo con el esquema del examen. Todo examen de curso inicial, excepto el del Trabajador, consistirá de un mínimo de cincuenta (50) preguntas de selección múltiple. Todos los demás exámenes consistirán de un mínimo de veinticinco (25) preguntas de selección múltiple.

I. El administrador de escuela de adiestramiento emitirá un certificado de terminación del curso,según se especifica en la Regla 1531 (A)(14) de este Capítulo a cada persona que complete con éxito el programa de adiestramiento.

J. El administrador de escuela de adiestramiento deberá desarrollar e implantar un plan de certeza de calidad. El plan se utilizará para mantener y mejorar la calidad del programa de adiestramiento a lo largo del tiempo. Este plan deberá contener al menos los siguientes elementos:

1. procedimientos para revisar periódicamente los materiales de adiestramiento y el examen del curso para reflejar las innovaciones en el campo de la materia; y
2. procedimiento para la revisión anual del administrador del programa sobre la competencia del instructor principal.

K. El administrador de escuela de adiestramiento se cerciorará que se cumplan las siguientes medidas del plan de certeza de calidad:

1. el (los) instructor(es) deberá(n) seguir el currículo de adiestramiento que fue acreditado por la Junta de Calidad Ambiental.
2. cada curso inicial de adiestramiento no deberá tener más de cuarenta (40) estudiantes.
3. un día de adiestramiento tendrá un mínimo de ocho (8) horas diarias y un mínimo de seis horas y media (6.5) de enseñanza directa, que incluye salón de clase, adiestramiento práctico o visitas al campo, con excepción del curso de repaso del Diseñador de Proyectos.
4. el tiempo de trabajo y tiempo de enseñanza no excederá de doce (12) horas en un período de veinticuatro (24) horas.

5. todos los requisitos de los cursos de adiestramiento deberán completarse dentro de un período de dos (2) semanas a partir de la fecha de inicio del curso.
6. todos los instructores y estudiantes deben dominar con fluidez el idioma en el cual se enseña el curso (español o inglés).
7. no se usará un intérprete para enseñar o instruir un curso de adiestramiento.
8. los cursos de adiestramiento de Trabajador en mitigación de pintura con base de plomo tendrán por lo menos un (1) instructor principal. Los demás cursos iniciales tendrán un mínimo de dos (2) instructores.
9. para la evaluación de destrezas prácticas, la proporción entre instructores y estudiantes, será de no más de diez (10) estudiantes por instructor
   cada curso de adiestramiento se utilizará para enseñar sólo una disciplina.
10. los estudiantes tomarán el examen del curso no más de dos (2) veces por cada curso de adiestramiento. Luego de dos (2) fracasos, el estudiante tendrá que tomar el curso completo antes de repetir los exámenes.
11. los instructores no deben leer las preguntas del examen para dar repasos del mismo.
12. el administrador de escuela de adiestramiento deberá proveer medidas de seguridad para proteger el examen del curso e impedir que los estudiantes tengan acceso al examen antes o después del examen. Los administradores de escuela de adiestramiento deberán tomar medidas para evitar el fraude durante la administración del examen.
13. para cada curso, el administrador de escuela de adiestramiento deberá verificar, mediante foto, la identidad de cada persona que tome el curso.

L. El programa de adiestramiento ofrecerá cursos que enseñarán las prácticas de trabajo para llevar a cabo actividades relacionadas con pintura de plomo contenidas en el Capítulo VI de este Reglamento. Estas normas se enseñarán en los cursos adecuados de manera que los adiestrados reciban el conocimiento necesario para realizar las actividades de pintura de plomo, de las cuales son responsables.

M. El administrador de escuela de adiestramiento será responsable de asegurarse que el programa de adiestramiento cumpla en todo momento con los requisitos establecidos en el Capítulo IV de este Reglamento.

N. Al concluir los cursos, el administrador de escuela de adiestramiento pondrá a la disposición de todos los asistentes al curso copias del Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo y solicitudes de certificación.

Regla 1533 - Requisitos Mínimos para Currículos de Cursos de Adiestramiento.

A. Para obtener acreditación, los administradores de escuelas de adiestramiento deben asegurar que su currículo de cursos de adiestramiento incluya, al menos, los siguientes temas enumerados a continuación. Los requisitos enumerados marcados con asteriscos (*) indican las áreas que requieren actividades de destrezas prácticas como parte integral del curso.

B. Inspector.

1. Funciones y responsabilidades del Inspector
2. Información sobre el plomo y sus efectos adversos a la salud.
3. Información sobre los reglamentos y guías federales y estatales sobre pintura con base de plomo y las actividades relacionadas.
4. Métodos de inspección de pintura con base de plomo, incluyendo métodos para seleccionar salones, componentes para muestreo y pruebas.*
5. Metodología para el muestreo de pintura, particulado y suelo.*
6. Normas y pruebas para determinar niveles de limpieza, incluyendo los muestreos al azar.*
7. Preparación del informe de inspección final. *
8. Mantenimiento de expedientes y registros.
9. La duración mínima del curso es de veinticuatro (24) horas de adiestramiento, con un mínimo de ocho (8) horas dedicadas al adiestramiento de destrezas prácticas.

C. Evaluador de Riesgos.

1. Funciones y responsabilidades del Evaluador de Riesgos.
2. Recopilación de información de trasfondo para realizar una determinación de riesgos.
3. Fuentes de contaminación ambiental por plomo, tales como: pintura, particulado superficial, suelo, agua, aire, empaques y alimentos.
4. Inspección, visual con el propósito de identificar pintura con base de plomo, y los peligros relacionados con la pintura con base de plomo.*
5. Protocolo sobre el análisis preliminar de riesgos provocados por la pintura con base de plomo.
6. Muestreos para otras fuentes de exposición al plomo.*
7. Interpretación de los resultados de los muestreos de pintura con base de plomo y otros muestreos de plomo, incluyendo todo reglamento o guía federal o estatal sobre riesgos provocados por la pintura con base de plomo.
8. Desarrollo de opciones de control de riesgos, el papel de los controles provisionales, las operaciones y mantenimiento en la reducción de riesgos provocados por el plomo.
9. Preparación de un informe final de evaluación de riesgos,
10. La duración mínima del curso es de dieciseis (16) horas de adiestramiento, con un mínimo de cuatro (4) horas dedicadas al adiestramiento de destrezas prácticas.

D. Supervisor.

1. Funciones y responsabilidades del Supervisor.
2. Información sobre el plomo y sus efectos adversos a la salud.
3. Información sobre los reglamentos, guías federales y estatales relacionadas con la mitigación de pintura con base de plomo.
4. Asuntos sobre responsabilidad legal y seguros relacionados con la mitigación de pintura con base de plomo.
5. Interpretación de informes de inspección y de evaluación de riesgos. *
6. Desarrollo e implantación de un plan de protección de residentes y del informe de mitigación.
7. Reconocimiento y control de riesgos provocados por la pintura con base de plomo.*

8. Métodos de mitigación y de reducción de riesgos por pintura con base de plomo, incluyendo prácticas restringidas.*
9. Métodos de mitigación y limpieza de particulado interior o métodos de reducción o control de riesgos provocados por plomo.*
10. Métodos de mitigación de particulado contaminado con plomo exterior o suelo y métodos de reducción o control de riesgos provocados por pintura con base de plomo.*
11. Normas y muestreo para determinar niveles de limpieza. *
12. Prácticas y reglamentos para la limpieza y disposición de desperdicios.
13. Mantenimiento de expedientes y registros.
14. La duración mínima del curso es de treintidos (32) horas de adiestramiento, con un mínimo de ocho (8) horas dedicadas al adiestramiento de destrezas prácticas.

E. Diseñador de Proyectos.

1. Funciones y responsabilidades de un Diseñador de Proyectos.
2. Desarrollo e implantación de un plan de protección de residentes para proyectos de mitigación en gran escala.
3. Métodos de mitigación y reducción de riesgos provocados por pintura con base de plomo para proyectos de mitigación de cinco (5) o más unidades de viviendas.
4. Métodos de mitigación y limpieza de particulado interior, métodos de reducción o control de riesgos provocados por plomo para proyectos de mitigación en gran escala.
5 Normas y muestreo para determinar niveles de limpieza para proyectos de mitigación en gran escala.
6. Integración de métodos de mitigación de pintura con base de plomo con proyectos de modernización y rehabilitación en gran escala.
7. La duración mínima del curso es de ocho (8) horas de adiestramiento.

F. Trabajador.

1. Funciones y responsabilidades del Trabajador.
2. Información sobre el plomo y sus efectos adversos a la salud.
3. Información de trasfondo sobre los reglamentos y guías federales y estatales relacionadas con la mitigación de pintura con base de plomo.
4. Reconocimiento y control de riesgos provocados por pintura con base de plomo.*
5. Métodos de mitigación y reducción de riesgos provocados por pintura con base de plomo, incluyendo prácticas restrictivas. *
6. Métodos de mitigación/limpieza de particulado interior o métodos de reducción o control de riesgos provocados por pintura con base de plomo.*
7. Métodos de mitigación en suelo, particulado exterior y la reducción de riesgos provocados por pintura con base de plomo.*
8 La duración mínima del curso es de dieciseis (16) horas de adiestramiento, con un mínimo de ocho (8) horas dedicadas al adiestramiento de destrezas prácticas.

Regla 1534 - Requisitos Mínimos para la Acreditación de Programas de Cursos de Repaso

A. El administrador de escuela de adiestramiento podrá solicitar que se le acredite para ofrecer cursos de adiestramiento de repaso en cualquiera de las siguientes disciplinas: Inspector, Evaluador de Riesgos, Supervisor, Diseñador de Proyectos y Trabajador. Para obtener la acreditación de la Junta de Calidad Ambiental para ofrecer un curso de repaso, un programa de adiestramiento debe cumplir y mantener los siguientes requisitos mínimos:

1. en cada curso de repaso se deberán cubrir los temas del currículo de los cursos enumerados en la Regla 1533 de este Reglamento, según sea necesario. Además, para obtener la acreditación para ofrecer los cursos de repaso, el administrador de escuela de adiestramiento deberá asegurarse que su currículo de cursos, incluye al mínimo, lo siguiente:

   (a) un repaso de las prácticas de seguridad más recientes relacionadas con las actividades de mitigación de pintura con base de plomo, en general; así también información específica relacionada con la disciplina pertinente.

   (b) las leyes y reglamentos más recientes relacionados con las actividades de

mitigación de la pintura con base de plomo, en general; así también información específica relacionada con la disciplina pertinente.

(c) la tecnología más reciente relacionada con las actividades de mitigación de la pintura con base de plomo, en general; así también información específica relacionada con la disciplina pertinente.

2. la duración de cada curso de repaso, excepto el de diseñadores de proyectos de mitigación de plomo, será de un mínimo de ocho (8) horas de adiestramiento. El curso de Diseñador de Proyectos de mitigación de plomo, tendrá una duración de un mínimo de cuatro (4) horas de adiestramiento.

3. para cada curso ofrecido, el administrador de escuela de adiestramiento deberá llevar a cabo una evaluación de las destrezas prácticas, excepto para el curso de repaso de diseñadores de proyectos de mitigación de plomo. Al finalizar el curso, se administrará un examen del mismo. El administrador de escuela de adiestramiento otorgará a los estudiantes que aprueben el examen un certificado de terminación del curso de repaso. La prueba del curso de repaso tendra un minímo de veinticinco (25) preguntas.

4. el administrador de escuela de adiestramiento que desee ofrecer cursos de repaso, deberá cumplir y mantener los requisitos establecidos en las Reglas 1531 a 1536 de este Capítulo, excepto por las horas de adiestramiento requeridas para cursos iniciales.

Regla 1535 - Requisitos Mínimos para la Notificación del Programa de Adiestramiento y el Mantenimiento de Expedientes y Registros.

A. Los administradores de escuelas de adiestramiento deberán someter a la Junta de Calidad Ambiental lo siguiente:

1. un aviso sobre la intención de llevar a cabo un curso de adiestramiento. Los avisos para los cursos de adiestramiento, excepto los cursos de Trabajador, deberán estar sellados por el correo o recibirse diez (10) días calendarios antes de la fecha de inicio del curso. Los avisos para los cursos de Trabajador en mitigación de plomo deberán estar sellados por el correo o recibirse en la Junta de Calidad Ambiental cinco (5)

días antes de la fecha de inicio. Si el curso fuese cancelado, el administrador de escuela de adiestramiento deberá notificar a la Junta de Calidad Ambiental por lo menos un (1) día antes de la fecha de inicio pautada para comenzar el curso. La notificación sobre la intención de llevar a cabo un curso de adiestramiento deberá presentarse en los formularios que provee la Junta de Calidad Ambiental y deberá incluir, pero no limitarse a, lo siguiente:

(a) nombre, dirección, número de teléfono del programa de adiestramiento y nombre de la persona de contacto;

(b) título del curso de adiestramiento;

(c) fechas entre el curso de adiestramiento y el examen;

(d) tiempo de comienzo y terminación del curso de adiestramiento;

(e) localización y direcciones para llegar al lugar donde se celebrará el curso, si el lugar no es el usual para administrar el programa de adiestramiento;

(f) idioma en que se administrará el curso (español o inglés)

(g) instructor principal del curso de adiestramiento, y

(h) la firma del administrador de escuela de adiestramiento.

2. una lista de matrícula no más tarde de siete (7) días calendarios contados a partir del último día de adiestramiento. La lista de matrícula del curso deberá ser presentada en los formularios que la Junta de Calidad Ambiental provee y deberán contener el nombre de cada persona que asistió al curso de adiestramiento, haya recibido o no un certificado de terminación del mismo.

3. cualquier cambio en la duración del curso, el currículo, los métodos de adiestramiento, el manual o materiales de adiestramiento, el instructor, el examen del curso, el certificado de adiestramiento, el administrador de escuela de adiestramiento y la persona de contacto. Esta deberá hacerse por escrito y presentarse a la Junta de Calidad Ambiental por lo menos diez (10) días calendario antes de la fecha de inicio pautada para el curso de adiestramiento. Los cambios deberán ser aprobados por la Junta de Calidad Ambiental antes de iniciar dichos cambios, de modo que el curso se acepte para propósitos de acreditación.

4. el currículo, los materiales y documentosque reflejen cualquier cambio hecho a estos materiales, según lo dispuesto en el inciso (3) de esta Regla. Estos deberán someterse a la Junta de Calidad Ambiental cuando el administrador de escuela de adiestramiento solicite la renovación de la acreditación.

B. El administrador de escuela de adiestramiento mantendrá y pondrá a la disposición de la Junta de Calidad Ambiental la siguiente información para que ésta la inspeccione:

1. información y documentación para cualquier curso acreditado conforme al Capítulo IV de este Reglamento;
2. información sobre cómo se evalúa a cada estudiante en relación al adiestramiento de destrezas prácticas, las tareas y los procedimientos de trabajo. Esto incluye, pero no se limita a: el instructor que lleva a cabo la evaluación, los criterios para calificar, las instalaciones que se utilizan, y la proporción entre aprobados y fracasados.
3. resultados de las evaluaciones de los exámenes de los cursos, las evaluaciones de destrezas prácticas y un registro del certificado de terminación del curso de cada estudiante.
4. el plan de certeza de calidad según se describe en la Regla 1532(K) de este Capítulo.
5. cualquier otro material no enumerado anteriormente que fuera sometido ante la Junta de Calidad Ambiental como parte de la solicitud de acreditación del programa.

C. El administrador de escuela de adiestramiento retendrá los registros y expedientes especificados en el inciso (B) de esta Regla en la dirección especificada en la solicitud del programa de adiestramiento por un mínimo de cinco (5) años. El administrador de escuela de adiestramiento deberá notificar a la Junta de Calidad Ambiental, dentro de un término de treinta (30) días calendarios, sobre cambios en la dirección especificada en la solicitud del programa de adiestramiento, transferencia de los expedientes y registros fuera de dicha dirección.

Regla 1536 - Requisitos Mínimos para la Renovación de la Acreditación de los Programas de Adiestramiento

A. Excepto si el administrador de escuela de adiestramiento renueva su acreditación, la acreditación expirará a los doce (12) meses contados a partir de la fecha de la emisión de la misma por la Junta de Calidad Ambiental. Si un programa de acreditación satisface los requisitos de esta Regla, la acreditación de los cursos del programa de adiestramiento serán renovados por un período de doce (12) meses contados a partir la fecha de expiración.

B. Un administrador de escuela de adiestramiento interesado en una renovación de la acreditación de los cursos de adiestramiento, deberá presentar una solicitud completada en los formularios provistos por la Junta de Calidad Ambiental, con toda la información necesaria y pertinente, y firmada por el administrador de escuela de adiestramiento. La solicitud de renovación deberá incluir, pero sin limitarse a:

1. el nombre, la dirección, el número de teléfono del programa de adiestramiento;
2. una lista de todos los cursos para los cuales el administrador solicita la renovación de la acreditación;
3. una descripción de cualquier cambio en las instalaciones de adiestramiento, los equipos, el currículo, las actividades de práctica, los instructores y el plan de certeza de calidad realizado luego de aprobarse su última solicitud.
4. una declaración firmada por el administrador de escuela de adiestramiento que certifique que el programa de adiestramiento satisface, en todo momento, los requisitos establecidos en el Capítulo IV este Reglamento.

D. La solicitud de renovación de cursos deberá estar sellada por el correo o entregarse a mano a la Junta de Calidad Ambiental treinta (30) días la fecha de expiración para cada curso acreditado por la Junta de Calidad Ambiental. Las solicitudes para renovación selladas por el correo o entregadas a mano treinta (30) días antes de la fecha de expiración debe incluir una cuota preliminar de radicación por la suma de veinticinco dólares ($25) y una cuota de renovación por la suma de cuatrocientos dólares ($400) por cada curso de adiestramiento;

pagadero mediante cheque certificado o giro postal dirigido a Junta de Calidad Ambiental Proyecto de Plomo. La cuota de radicacion no será reembolsable.

D. Los administrdores de escuelas de adiestramiento que presenten una solicitud de renovación de curso luego de la fecha de expiración se regirán por los requisitos especificados en la Regla 1531 de este Capítulo para propósitos de la acreditación.

E. La Junta de Calidad Ambiental podrá inspeccionar el programa de adiestramiento en cualquier momento para verificar el contenido de la solicitud de renovación.

Regla 1537- Reciprocidad

A. La Junta de Calidad Ambiental podrá mantener acuerdos de reciprocidad con otros estados, tribus o territorios de Estados Unidos donde se pueda demostrar la equivalencia entre los requisitos de la certificación y de adiestramiento sobre en mitigaciones de plomo. La Junta de Calidad Ambiental podrá reconocer la acreditación de un curso de adiestramiento o curso de repaso de adiestramiento concedida por cualquier estado, tribu o territorio con el cual la Junta de Calidad Ambiental mantenga un acuerdo de reciprocidad escrito. Cualquier administrador de escuela de adiestramiento podrá solicitar que la Junta de Calidad Ambiental apruebe sus cursos acreditados si sus cursos de adiestramiento o cursos de repaso han sido acreditados por un estado, tribu o territorio con el cual la Junta de Calidad Ambiental mantiene un acuerdo de reciprocidad.

B. Los administradores de escuelas de adiestramiento que soliciten acreditación a la Junta de Calidad Ambiental por reciprocidad deberán cumplir con los requisitos establecidos en la Regla 1531(A), con excepción de lo dispuesto en la Regla 1531(A)(6) de este Capítulo, y pagar la radicación preliminar por la suma de veinticinco dólares ($25) y una cuota de acreditación por la suma de cuatrocientos dólares ($400) por cada curso de adiestramiento para el cual se busca la acreditación. Las cuotas se deben presentar mediante cheque certificado o giro postal, pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

Regla 1538 - Suspensión, Revocación y Modificación de la Acreditación de Adiestramientos

A. La Junta de Calidad Ambiental podrá investigar los actos de cualquier programa de adiestramiento y podrá suspender, revocar o modificar la acreditación de un programa de adiestramiento e imponer multas o ambos, cuando se determine que el programa de adiestramiento, el administrador de escuela de adiestramiento, u otras personas con responsabilidad dentro del programa:

1. hayan hecho declaraciones engañosas sobre el contenido del curso de adiestramiento a la Junta de Calidad Ambiental y a los estudiantes, o a ambos;
2. no hayan presentado a tiempo información o notificaciones solicitadas;
3. no hayan mantenido los expedientes y/o registros;
4. hayan falsificado expedientes sobre la acreditación, calificaciones de los instructores u otra información o documentos relacionados con los procesos de acreditación;
5. no hayan cumplido con las normas y los requisitos del adiestramiento, en conformidad con este Capítulo;
6. no hayan cumplido con los estatutos y reglamentaciones estatales o federales relacionadas con la mitigación de pintura con base de plomo;
7. hayan hecho declaraciones falsas o engañosas a la Junta de Calidad Ambiental en su solicitud de acreditación o de renovación, en las cuales la Junta de Calidad Ambiental dependió al aprobar la solicitud;
8. cualquier otra violación a esta Reglamentación.

B. Cuando se revoca la acreditación de un programa de adiestramiento, la revocación será por un término no menor de seis (6) meses y no mayor de cinco (5) años, a discreción de la Junta de Calidad Ambiental. La Junta de Calidad Ambiental también podrá imponer multas administrativas por violaciones al inciso (A) de esta Regla.

C. En casos en que la Junta de Calidad Ambiental determine que la violación ha ocurrido por actos ocasionados por una persona(s) dentro del programa de adiestramiento, la Junta de Calidad Ambiental podrá revocar la certificación de dicha persona por un término no menor de seis meses y no mayor de cinco (5) años e imponer multas administrativas o ambas.

Regla 1539 - Reservada

CAPÍTULO V

REQUISITOS DE CERTIFICACIÓN Y PROCEDIMIENTOS DE LA SOLICITUD PARA PERSONAS Y EMPRESAS DE MITIGACION

Regla 1540 - Alcance

A. Luego de la presentación de una solicitud que demuestre que se reúnen todos los requisitos de este Capítulo y que la Junta de Calidad Ambiental determine que la persona ha cumplido con los requisitos aplicables para realizar actividades relacionadas con la pintura con base de plomo, la Junta de Calidad Amb[illegible] certificará al solicitante como Inspector, Evaluador de Riesgos, Supervisor, Diseñador de [illegible]royectos y Trabajador.

B. La Junta de Calidad Ambiental le asignará a toda persona certificada un número de certificación y le otorgará una tarjeta de identificación con foto.

C. La Junta de Calidad Ambiental le asignará a toda empresa certificada que realice mitigación de pintura con base de plomo un número de certificación y le otorgará el certificado correspondiente.

D. Cuando se requiera experiencia educacional, la Junta de Calidad Ambiental reconocerá una copia oficial de la transcripción académica de los cursos aprobados, el diploma o un certificado profesional como evidencia de que se cumplen con los requisitos educacionales necesarios.

E. Cuando se requiera experiencia de trabajo, la Junta de Calidad Ambiental reconocerá un resumé o una carta de referencia de parte de un patrono actual o pasado como evidencia de que se cumplen con los requisitos de experiencia de trabajo. Estos documentos deberán incluir, sin limitarse a, un historial de trabajo que documente la experiencia relacionada,

incluyendo las fechas de empleo; nombre, dirección y número de teléfono del patrono; los puestos ocupados, los proyectos completados y las responsabilidades que conllevaba el puesto.

F. Luego de recibir la certificación de la Junta de Calidad Ambiental, las personas que lleven a cabo actividades relacionadas con pintura con base de plomo deberán trabajar para una empresa de mitigación y cumplir con las normas para realizar actividades relacionadas con pintura con base de plomo, según se establece en el Capítulo VI de este Reglamento.

G. Todos los certificados expirarán doce (12) meses a partir del último día del adiestramiento requerido. El trabajo que se realice luego de éstos doce (12) meses y antes de la renovación del certificado, constituirá una violación a este Reglamento.

H. Los solicitantes deberán cumplir con los requisitos establecidos en la Regla 1544 de este Capítulo para mantener la certificación como persona o empresa mitigadora de pintura con base de plomo.

I. No se requerirá pagar cuotas de certificación a una persona empleada por una agencia federal o estatal para llevar a cabo investigaciones relacionadas con actividades de mitigación, siempre y cuando su participación en el campo de mitigación se limite exclusivamente a trabajos realizados durante el desempeño de sus labores como empleado de la entidad para la cual trabaje.

J. Las personas que soliciten un duplicado de su tarjeta de certificación deberán someter una cuota de veintincinco dólares ($25.00) en cheque o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo.

Regla 1541 - Solicitud de Certificación

A. Ninguna persona o empresa llevará a cabo actividades relacionadas con pintura con base de plomo a menos que la persona o la empresa haya recibido la certificación adecuada de la Junta de Calidad Ambiental en conformidad con los requisitos establecidos en este Reglamento.

B. Los procedimientos y requisitos que un individuo debe satisfacer cuando solicita una certificación a la Junta de Calidad Ambiental son los siguientes:

1. Certificación en la disciplina de Trabajador en mitigación de plomo:

   Para obtener una certificación en la disciplina de Trabajador, el solicitante deberá:

   (a) Completar éxitosamente un curso y recibir el certificado de terminación del curso de un programa de adiestramiento acreditado en la disciplina para la cual se solicita el certificado;

   (b) Presentar una solicitud de certificación completada en los formularios provistos por la Junta de Calidad Ambiental con toda la información solicitada, la firma original y la fecha;

   (c) Presentar un certificado original y copia de terminación del curso en la disciplina para la cual se solicita el certificado. En la alternativa, se someterá una carta original y copia del programa de adiestramiento que confirme que el solicitante terminó dicho curso de adiestramiento, en papel timbrado del programa. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

   (d) Someter una cuota de radicación de ($25) veinticinco dólares y una cuota de certificación de cincuenta ($50) dólares en forma de cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

   (e) No existe ningún otro requisito de experiencia o educación

2. Certificación en la disciplina de Inspector

Para obtener certificación como Inspector, el solicitante deberá:

(a) Completar exitosamente un curso y recibir el certificado de terminación de un programa acreditado en la disciplina para la cual se solicita el certificado;

(b) Aprobar el examen estatal y recibir la carta de aprobación de parte de la entidad administradora de exámenes correspondiente en la disciplina para la cual se solicita el certificado;

(c) Presentar una solicitud de certificación completada en los formularios provistos por la Junta de Calidad Ambiental con toda la información requerida, la firma original del solicitante y la fecha;

(d) Presentar un certificado original y copia de terminación del curso en la disciplina para la cual se solicita el certificado. En la alternativa, se someterá una carta original y copia del programa acreditado que confirme que el solicitante terminó dicho curso de adiestramiento en papel timbrado del programa. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original.

(e) Presentar original y copia de la carta confirmando aprobación del examen estatal de parte de la entidad administradora del examen correspondiente en la disciplina para la cual se solicita el certificado. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original.

(f) Someter una cuota de radicación de veinticinco dólares ($25) y una cuota de certificación de ciento veinticinco cien dólares ($100) mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

(g) Satisfacer o exceder los siguientes requisitos de educación o experiencia:

(1) Un grado universitario de bachiller y un (1) año de experiencia en un campo relacionado incluyendo pero sin limitarse a, plomo, asbestos,

trabajos de remediación ambiental o construcción; o

(2) Un grado asociado y dos (2) años de experiencia en un campo relacionado, incluyendo, pero sin limitarse a, plomo, asbestos o trabajos de remediación ambiental o construcción, o

(3) Una certificación como higienista industrial, ingeniero profesional, arquitecto registrado y/o una certificación en campos relacionados con la ingeniería, salud y el ambiente, incluyendo, pero sin limitarse a, profesional de la salud y/o científico ambiental; o,

(4) Un diploma de escuela superior (o su equivalente) y un mínimo de tres (3) años de experiencia en campos relacionados, incluyendo, pero sin limitarse a. plomo, asbestos, trabajos de remediación ambiental o construcción.

3. Certificación en la disciplina de Supervisor

Para obtener certificación en la disciplina de Supervisor, el solicitante deberá:

(a) Completar exitósamente un curso y recibir el certificado de terminación del curso de un programa de adiestramiento acreditado en la disciplina para la cual se solicita el certificado;

(b) Aprobar un examen estatal y recibir una carta de aprobación de parte de la entidad administradora de exámenes correspondiente en la disciplina para la cual se solicita el certificado;

(c) Satisfacer o exceder los siguientes requisitos de educación o experiencia, o ambos:

(1) un (1) año de experiencia como Trabajador, o

(2) un mínimo de dos (2) años de experiencia en un campo relacionado, incluyendo, pero sin limitarse a: plomo, asbestos o trabajo de remediación ambiental.

(d) Presentar una solicitud completada de certificación en los formularios provistos por la Junta de Calidad Ambiental con toda la información requerida, También incluirá la firma original del solicitante y la fecha;

(e) Presentar un certificado original y copia de terminación del curso en la disciplina para la cual se solicita el certificado. En la alternativa, se someterá una carta original y copia del programa acreditado que confirme que el solicitante terminó dicho curso de adiestramiento, escrita en papel timbrado del programa. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(f) Presentar original y copia de la carta corfirmando aprobación del examen estatal de parte de la entidad administradora del examen correspondiente en la disciplina para la cual se solicita el certificado. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(g) Someter cuota de radicación de veinticinco dólares ($25) y una cuota de certificación por la suma de cien dólares ($100) mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

4. Certificación para la disciplina de Evaluador de Riesgos

Para obtener certificación en la disciplina de Evaluador de Riesgos, el solicitante deberá:

(a) Completar exitosamente y recibir el certificado de terminación del curso de un programa de adiestramiento acreditado en la categoría de Inspector y en la disciplina para la cual se solicita el certificado;

(b) Aprobar el examen estatal y recibir una carta de aprobación de parte de la entidad administradora de exámenes correspondiente y en la disciplina para la cual se solicita el certificado;

(c) Satisfacer o exceder los siguientes requisitos de educación o experiencia:

(1) un grado universitario de bachiller y un (1) año de experiencia en un campo relacionado incluyendo pero sin limitarse a, plomo, asbestos,

trabajos de remediación ambiental o construcción; o

(2) un grado asociado y dos (2) años de experiencia en un campo relacionado, incluyendo, pero sin limitarse a, plomo, asbestos o trabajos de remediación ambiental o construcción, o

(3) una certificación como higienista industrial, ingeniero profesional, arquitecto registrado y/o una certificación en campos relacionados con la ingeniería, salud y el ambiente, incluyendo, pero sin limitarse a, profesional de la salud y/o científico ambiental; o,

(4) un diploma de escuela superior (o su equivalente) y un mínimo de tres (3) años de experiencia en campos relacionados, incluyendo, pero sin limitarse a, plomo, asbestos, trabajos de remediación ambiental o construcción.

(d) Presentar una solicitud completada de certificación en los formularios provistos por la Junta de Calidad Ambiental, con toda la información requerida. También se incluirá la firma original del solicitante y la fecha;

(e) Presentar un certificado de terminación del curso original y copia o en la disciplina para la cual se solicita el certificado. En la alternativa, una carta original y copia del programa de adiestramiento acreditado que confirme que el solicitante terminó dicho curso de adiestramiento, escrita en el papel timbrado de dicho programa. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(f) Presentar original y copia de la carta que confirma aprobación del examen estatal de parte de la entidad administradora del examen correspondiente. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(g) Someter cuota de radicación de veinticinco dólares ($25.00) y una cuota de

certificación por la suma de cien dólares ($100.00) mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

5. Certificación en la disciplina de Diseñador de Proyectos

Para obtener certificación en la disciplina de Diseñador de Proyectos, el solicitante deberá cumplir con los siguientes requisitos:

(a) Completar éxitosamente un curso y recibir el certificado de terminación del curso de parte de un programa de adiestramiento acreditado en la categoría de Supervisor y la disciplina para la cual se solicita el certificado;

(b) Aprobar el examen estatal y recibir una carta de aprobación de parte de la entidad administradora del examen de certificación en la disciplina de Supervisor.

(c) Satisfacer o exceder los siguientes requisitos de educación o experiencia, o ambos:

(1) Ser un ingeniero o arquitecto licenciado y un (1) año de experiencia en construcción y diseño de edificios o en un campo relacionado; o

(d) Presentar una solicitud completada de certificación en los formularios provistos por la Junta de Calidad Ambiental con toda la información requerida. También incluirá la firma original y la fecha.

(e) Someter original y copia del certificado de terminación del curso en la disciplina de Supervisor y en la disciplina para la cual se solicita el certificado. En la alternativa, una carta original y copia del programa de adiestramiento acreditado que confirme que el solicitante terminó dicho curso de adiestramiento en el papel timbrado del programa de adiestramiento acreditado. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(f) Presentar original y copia de la carta que confirma la aprobación del examen

estatal de parte de la entidad administradora del examen correspondiente. Estos documentos se someterán en persona ante la Junta de Calidad Ambiental, donde personal del Proyecto de Permisos y Certificación sobre Pintura con Base de Plomo certificará dichas copias como fiel y exactas a su original;

(g) Someter cuota de radicación de veinticinco dólares ($25) y una cuota de certificación por la suma de cien dólares ($100) mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

Regla 1542 - Certificación de empresas que realizan mitigación de pintura con base de plomo

A. Una empresa de mitigación que interese obtener una certificación deberá:

1. Presentar una solicitud completada de certificación en los formularios provistos por la Junta de Calidad Ambiental que certifique que la empresa:

(a) solamente contrata empleados certificados por la Junta de Calidad Ambiental para llevar a cabo las actividades relacionadas con pintura con base de plomo;

(b) sigue las normas establecidas en este Reglamento para llevar a cabo las actividades relacionadas con pintura con base de plomo; y

(c) mantiene todos los registros y expedientes en conformidad con los requisitos establecidos en este Reglamento.

2. Presentar una declaración en la cual informe sobre cualquier acción tomada en su contra por las autoridades federales, estatales o municipales sobre violaciones, suspensiones, revocaciones o modificaciones relacionadas a las actividades de mitigación que conduce la empresa.

3. Someter cuota de radicación de cincuenta dólares ($50.00) y una cuota de certificación por la suma de quinientos dólares ($500.00) mediante cheque certificado o giro postal, pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

Regla 1543 - Examen Estatal de Certificación

A. Sólo se podrá tomar el examen estatal de certificación de una entidad administradora de exámenes de certificación autorizada por la Junta de Calidad Ambiental.

B. Requisitos para tomar el examen estatal de certificación en una disciplina en particular:

1. Completar éxitosamente un curso acreditado en la disciplina pertinente y recibir un certificado de terminación del curso de parte de un programa de adiestramiento acreditado.

2. Satisfacer o exceder los requisitos de educación y/o experiencia, en conformidad con lo dispuesto en el Capítulo V de este Reglamento, para la disciplina en la cual se solicita la certificación.

3. Tomar el examen estatal de certificación no más de tres veces dentro de un término de seis (6) meses contados a partir de la fecha del certificado del curso. Si una persona no aprobara el examen estatal de certificación con una puntuación de sesenta (70%) o más, dentro del término de seis (6) meses contados a partir de la fecha en que se expidió su certificado del curso, la persona tendrá que tomar nuevamente el curso de adiestramiento pertinente, según lo establece este Reglamento, antes de volver a tomar el examen estatal de certificación.

C. Luego de reunir los requisitos de adiestramiento, educación, experiencia y de aprobar el examen estatal de certificación, la JCA expedirá dicha certificación.

Regla 1544 - Renovación de la Certificación

A. Luego que una persona certificada demuestre que ha cumplido todos los requisitos en conformidad con lo dispuesto en este Reglamento y que la Junta de Calidad Ambiental así lo determine la Junta de Calidad Ambiental renovará la certificación de esa persona en la categoría correspondiente.

B. A las personas certificadas que reúnan los requisitos de este Capítulo se les renovará el certificado por un período de doce (12) meses contados a partir de la fecha de expiración de la certificación anterior.

C. Las personas que interesan la renovación deberán:

1. presentar a la Junta de Calidad Ambiental una solicitud completada en los formularios provistos, con toda la información pertinente y firmada por el solicitante;
2. si aplica, completar un curso de repaso y recibir el certificado de un programa de adiestramiento acreditado en la disciplina para la cual se solicita la renovación, dentro de los veinticuatro (24) meses contados a partir de la fecha en que se terminó el último curso de adiestramiento acreditado. Las personas que no hayan completado dicho curso de repaso dentro de los veinticuatro (24) meses contados a partir de la fecha de terminación del adiestramiento, deberán completar con éxito el curso inicial para poder renovar la certificación;
3. Presentar original y copia del certificado de terminación del curso de repaso en la disciplina pertinente para la cual se solicita la renovación o presentar original y copia de una carta del programa de adiestramiento que certifique que se completó dicho curso en el papel timbrado del programa de adiestramiento. Estos documentos se someterán en persona a la Junta de Calidad Ambiental donde personal del Proyecto de Certificación y Permisos sobre Pintura con Base de Plomo certificará las copias como fiel y exacta de su original;
4. Presentar una cuota de radicación por la suma de venticinco dólares ($25) y una cuota de renovación por la suma de cien dolares ($100); por cada disciplina renovada, salvo la disciplina de Trabajador. Aquel solicitante que interese la renovación en la disciplina de Trabajador pagará una cuota de radicación de venticinco dólares ($25) y una cuota de renovación de cincuenta dólares ($50.00) . Las cuotas se presentarán en cheque o giro postal, pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo.

D. Para que una empresa que realice mitigación de pintura con base de plomo, pueda renovar la certificación, la empresa deberá:

1. Presentar a la Junta de Calidad Ambiental una solicitud de renovación completada en los formularios provistos por la Junta de Calidad Ambiental que certifique que la empresa:

   (a) sólo contrata empleados certificados por la Junta de Calidad Ambiental para llevar a cabo las actividades relacionadas con pintura con base de plomo.

   (b) sigue las normas establecidas en este Reglamento para llevar a cabo las actividades relacionadas con pintura con base de plomo; y

   (c) mantiene todos los registros y expedientes en conformidad con las disposiciones de este Reglamento.

2. Presentar una declaración en la cual informe cualquier acción tomada por cualquier autoridad federal, estatal o municipal sobre violaciones, suspensiones, revocaciones o modificaciones relacionadas a actividades de mitigación de pintura con base de plomo; y.

3. Presentar un cheque o giro postal por la suma de cincuenta dólares ($50) por concepto de cuota preliminar y otro por la cantidad de quinientos dólares ($500) por concepto de cuota de certificación pagadero a la Junta de Calidad Ambiental – Proyecto de Plomo.

E. Las solicitudes de renovación deberán estar selladas por el correo o entregadas a mano a la Junta de Calidad Ambiental, treinta (30) días antes de la fecha de expiración de la certificación en cada disciplina para la cual se solicita la renovación. Las personas certificadas que sometan solicitudes de renovación selladas en el correo o entregadas a mano luego de la fecha de expiración del certificado, deberán seguir los requisitos especificados en la Regla 1541 de este Capítulo para propósitos de certificación.

Regla 1545 - Recíprocidad

A. Toda persona que poseea una licencia, certificación o permiso en otro estado, territorio o tribu de los Estados Unidos podrá solicitar certificación para realizar trabajos de mitigación de plomo en Puerto Rico ante la Junta de Calidad Ambiental en formularios provistos por la agencia sin la necesidad de repetir los requisitos de adiestramiento. La Junta de Calidad Ambiental tendrá la facultad de reconocer la certificación otorgada por otro estado, tribu o territorio con el cual la Junta de Calidad Ambiental tenga un acuerdo escrito de reciprocidad.

B. Toda persona que quiera certificarse mediante reciprocidad deberá tomar un curso de repaso según lo establecido en la Regla 1544 (C)(2).

C. Toda persona que desee certificarse por reciprocidad también someterá ante la Junta de Calidad Ambiental lo siguiente:

1. una solicitud completada, en formularios provistos por la Junta de Calidad Ambiental, con toda la información pertinente y firmada por el solicitante;
2. original y copia del certificado emitido por el estado, tribu o territorio de Estados Unidos mediante el cual la persona solicita certificación por reciprocidad. Estos documentos serán sometidos a la Junta de Calidad Ambiental, donde personal del Proyecto de Certificación y Permisos sobre Pintura con Base de Plomo, certificará las copias como fiel y exacta de su original y devolverá los originales.
3. una cuota de radicación por la suma de venticinco dólares ($25) y una cuota de certificación por la suma de cien dólares ($100), para cada disciplina en la cual quiera certificarse, excepto en la disciplina de Trabajador. Un solicitante que quiera certificarse en la disciplina de Trabajador someterá una cuota de radicacion por la suma de venticinco dólares ($25.00) y una cuota de certificación por la suma de cincuenta dolares ($50) mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. La cuota de radicación no será reembolsable.

Regla 1546 - Personas Certificadas antes de la Promulgación de este Reglamento.

A. Toda persona que haya recibido adiestramiento de un programa acreditado entre la fecha de junio del 1995 y la fecha de efectividad de este Reglamento, podrá solicitar la certificación si cumple con los siguientes requisitos:

1. somete una solicitud completada y toda la información y/o documentación requerida de acuerdo a los requisitos establecidos en la Regla 1541;
2. aprueba el examen estatal de certificación correspondiente para la diciplina en la cual se solicita la certificación, con excepción de la diciplina del trabajador;
3. completa con éxito un curso de repaso ofrecido por un programa de adiestramiento acreditado por la Junta de Calidad Ambiental si han transcurrido dos años o más a partir de la fecha de certificación .

B. Los solicitantes que cualifican para una certificación, según lo establecido en este Reglamento, tendrán seis (6) meses contados a partir de la fecha de efectividad de este Reglamento, para solicitar dicha certificación. Todo solicitante que desee obtener un permiso certificación luego de la fecha establecida, tomará nuevamente los cursos acreditados necesarios y solicitará la certificación, de acuerdo a la Regla 1541.

Regla 1547 - Suspensión, Revocación y Modificación

A. La Junta de Calidad Ambiental podrá investigar las acciones de cualquier persona o empresa certificada en mitigación de plomo y podrá suspender, revocar o modificar la certificación de dichas personas o empresas cuando se determina que la persona o empresa:

1. obtuvo documentos para la certificación mediante medios fraudulentos;
2. logró la admisión y/o completó un programa de adiestramiento acreditado mediante representaciones falsas sobre los requisitos de admisión;
3. obtuvo la certificación por medios fraudulentos o representaciones falsas sobre los requisitos de certificación o los documentos relacionados a la educación, adiestramiento o experiencia;
4. Realizó trabajos en proyectos sin tener evidencia de su certificación;
5. Permitió que otra persona duplicara o usara su certificación;

6. Realizó un trabajo para el cual se requiere certificación sin haber recibido la certificación correspondiente;
7. Incumplió con las normas y prácticas de trabajo adecuadas para las actividades de mitigación de pintura con base de plomo, según dispone el Capítulo VI de este Reglamento;
8. Violó las leyes y los reglamentos federales o estatales relacionados con la mitigación de pintura con base de plomo;
9. Realizó trabajos que requerían certificación utilizando a personas que no estaban certificadas;
10. Hizo falsas representaciones sobre hechos relevantes en la solicitud para certificación de una empresa que realiza actividades de mitigación de plomo;
11. No guarda lo registros y expedientes requeridos;
12. Cometió cualquier otro acto que afecte la salud, el bienestar y seguridad pública.

B. Cuando se revoca la certificación de una persona o empresa que realiza actividades de mitigación de plomo, la persona o empresa cualificará para una recertificación por un período de seis meses hasta cinco (5) años, a discreción de la Junta de Calidad Ambiental, contados a partir de la fecha de revocación.

Reglas 1548 - 1549 – Reservadas

CAPITULO VI

NORMAS DE TRABAJO PARA LLEVAR A CABO ACTIVIDADES DE MITIGACIÓN DE PINTURA CON BASE DE PLOMO EN VIVIENDAS DE RIESGO E INSTALACIONES OCUPADAS POR NIÑOS

Regla 1550 – Alcance

A. Ninguna persona o empresa deberá llevar a cabo un proyecto de mitigación de pintura con base de plomo sin un permiso de la Junta de Calidad Ambiental, con excepción de lo dispuesto en la Regla 1556(B)(2) de este Reglamento.

B. Al realizar cualquier actividad relacionada con pintura con base de plomo, una persona certificada deberá realizar dicha actividad en conformidad con los requisitos establecidos en este Capítulo.

C. Toda persona que realice actividades relacionadas con pintura con base de plomo deberá trabajar para una empresa de mitigación certificada.

D. Para cada inspección, evaluación de riesgos, análisis preliminar de riesgos plomo que se lleve a cabo, el inspector o evaluador de riesgos presentará a la parte a quien se prestan los servicios y a la Junta de Calidad Ambiental, si así lo requiriesen, una copia legible del informe de la actividad en un formulario provisto o aprobado por la Junta de Calidad Ambiental. El formulario deberá someterse dentro treinta (30) días luego de la inspección, evaluación o análisis preliminar.

E. Ninguna persona llevará a cabo actividades relacionadas con pintura con base de plomo sin llevar consigo en todo momento la certificación necesaria para la actividad que la persona este realizando.

Regla 1551 – Inspecciones

A. Sólo una persona certificada por la Junta de Calidad Ambiental como Inspector o Evaluador de Riesgos, deberá realizar las inspecciones. Dichas inspecciones se llevarán a cabo en conformidad con los procedimientos establecidos en este Capítulo.

B. Cuando se realice una inspección para detectar la presencia de pintura con base de plomo, los siguientes lugares se seleccionarán de acuerdo a la metodología documentada.

1. En una vivienda e instalación ocupada por niños, cada componente con un historial diferente de pinturas, deberá someterse a pruebas para detectar pintura con plomo, salvo esos componentes que el Inspector o el Evaluador de Riesgos determine que han sido reemplazados después de 1978, o que no contienen pintura con base de plomo; y,

2. En una vivienda multifamiliar o instalaciones ocupadas por niños, cada componente con un historial diferente de pintura en cada área común deberá someterse a pruebas de detección de plomo, excepto aquellos componentes que el Inspector o el Evaluador de riesgos determine que han sido reemplazados después de 1978, o que no contienen pintura con base de plomo.

C. Se tomarán muestras de la pintura de la siguiente manera:

1. El análisis de la pintura para detectar la presencia de plomo deberá llevarse a cabo utilizando metodología documentada, que incorpore procedimientos de los planes de certeza de calidad adecuados.

2. Todas las muestras de hojuelas de pintura recolectadas deben ser analizadas de acuerdo a la Regla 1559 de este Capítulo para determinar si tienen niveles detectables que puedan cuantificarse numéricamente.

D. El Inspector o el Evaluador de Riesgos deberá preparar un informe de inspección que incluirá la siguiente información:

1. dirección de la edificación;
2. fecha de construcción;
3. número de apartamentos (si aplica);
4. nombre, dirección y número de teléfonos del dueño o los dueños de cada vivienda o instalación ocupada por niños;
5. fecha de la inspección;
6. nombre, firma y número de certificación de cada Inspector o Evaluador de Riesgos, o de ambos, que lleve a cabo las pruebas;
7. nombre, dirección y número de teléfono de la empresa que empleó a cada Inspector o Evaluador de Riesgos, o a ambos, si aplica;
8. cada método e instrumento y/o los procedimientos de muestreo utilizados para analizar pintura, incluyendo los datos de control de calidad y si aplica, el número de serie del instrumento para medir fluorescencia de rayos X (XRF, por sus siglas en inglés);
9. la localización específica de cada componente pintado que se haya sometido a prueba para determinar la presencia de pintura con base de plomo;
10. los resultados de la inspección expresados en términos adecuados para el método de muestreo utilizado; y,
11. cualquier otra información que la Junta de Calidad Ambiental determine que es necesaria.

Regla 1552 – Análisis Preliminar de Riesgos

A. Sólo una persona certificada por la Junta de Calidad Ambiental como un Evaluador de Riesgos provocados por la pintura con base de plomo llevará a cabo un análisis preliminar de riesgos.

B. El análisis preliminar, deberá realizarse de la siguente manera:

1. Se deberá recolectar información básica sobre las características físicas de la vivienda o la instalación ocupada por niños y sobre los patrones de uso de los residentes que puedan causar uno o más niños de seis (6) años o menos a la pintura con base de plomo.

2. Se llevará a cabo una inspección visual de la vivienda o la instalación ocupada por niños para:

   (a) determinar la presencia de pintura deteriorada; y,

   (b) localizar, al menos, dos (2) lugares para el muestreo de pintura.

3. Si existe pintura deteriorada, se harán pruebas para determinar la presencia de plomo en cada superficie con pintura deteriorada que se determine que está en malas condiciones y que tiene un historial diferente de pinturas mediante el uso de metodología documentada.

4. En viviendas, se recolectarán dos (2) muestras compuestas de particulado, una de los pisos y otra de las ventanas, cuartos, pasillos y escaleras donde existe mayor probabilidad que uno o más niños de seis (6) años o menos estén en contacto con el particulado.

5. En viviendas multifamiliares e instalaciones ocupadas por niños, además de las muestras de los pisos y ventanas requeridas en el inciso (B)(4) de esta Regla, el Evaluador de Riesgos, deberá recolectar muestras compuestas de las áreas comunes donde sea más probable que uno o más niños de seis (6) años o menos estén en contacto con el particulado.

C. Recolección y Análisis de las muestras de particulado:

1. Toda muestra de particulado deberá recolectarse utilizando la metodología documentada que incorpore procedimientos adecuados sobre el plan de certeza de calidad.

2. Toda muestra de particulado recolectado deberá analizarse en conformidad con la Regla 1559 de este Capítulo para determinar si contiene niveles detectables de plomo que puedan ser cuantificados numéricamente.

D. Análisis de las muestras de pintura:

1. El análisis de la pintura para determinar la presencia de plomo se llevará a cabo utilizando metodología documentada que incorpore procedimientos adecuados sobre el plan de certeza de calidad.

2. Toda muestra recolectada de hojuelas de pintura deberá analizarse en conformidad con la Regla 1559 de este Capítulo para determinar si contiene niveles detectables de plomo que puedan ser cuantificados numéricamente.

E. El Evaluador de Riesgos preparará un informe sobre el análisis preliminar, el cual incluirá, pero no se limitará a la siguiente información:

1. la información requerida en un informe de evaluación de riesgos, según se especifica en la Regla 1553 de este Capítulo, incluyendo cualquier información básica recolectada en conformidad con el inciso (K)(1) de esta Regla;

2. recomendaciones, si se justifican, para una evaluación de riesgos por plomo y cualquier otra acción adicional, según sea necesario.

Regla 1553 - Evaluación de Riegos

A. Solamente una persona certificada por la Junta de Calidad Ambiental deberá llevar a cabo una evaluación de riesgos provocados por pintura con base de plomo. Una evaluación de riesgos deberá realizarse en conformidad con los procedimientos establecidos en esta Regla.

B. Deberá llevarse a cabo una inspección visual para determinar los riesgos en la vivienda o instalación ocupada por niños para localizar la existencia de pintura deteriorada, evaluar la extensión y causas del deterioro, y otras fuentes potenciales de peligros por la pintura con base de plomo.

C. Deberá recopilarse la información básica sobre las características físicas de la vivienda o la instalación ocupada por niños. Además, debe recopilarse información sobre los patrones de uso de los residentes que puedan causar exposición de pintura con base de plomo a uno o más niños de seis (6) años o menos.

D. Se harán pruebas para determinar la presencia de plomo en cada superficie con pintura deteriorada que se determine que está en malas condiciones mediante el uso de metodología documentada. Se deberán, además, hacer pruebas para determinar la presencia de plomo en otras superficies que se determine son un peligro potencial relacionado con pintura de plomo y tienen un historial diferente de pintura, usando metodología documentada.

E. En viviendas, deberán recolectarse muestras de particulado (ya sean compuestas o de una sola superficie) de la ventana y el piso de todas las áreas de vivienda donde sea más probable que uno o más niños de seis (6) años o menos se pongan en contacto con el particulado.

F. En viviendas multifamiliares e instalaciones ocupadas por niños, deberán tomarse las muestras requeridas en el inciso (D) de esta Regla. Además, se deberán recolectar muestras de particulado de ventanas y pisos (ya sean muestras compuestas o de superficie) de los siguientes lugares:

1. áreas comunes adyacentes a la vivienda o instalación ocupada por niños en la se están tomando muestras y;
2. otras áreas comunes de la edificación donde el evaluador de riesgos determine que es más probable que uno o más niños de seis (6) años o menos puedan ponerse en contacto con el particulado.

G. En instalaciones ocupadas por niños, deberán recolectarse muestras de particulado en ventanas y pisos (ya sean muestras compuestas o de superficie) de cada cuarto, pasillo o escalera utilizada por niños de seis (6) años o menos, y en otras áreas comunes en la instalación ocupada por niños donde el Evaluador de Riesgos determine que es probable que uno o más niños de seis (6) años o menos puedan ponerse en contacto con el particulado.

H. Se deberán recolectar y analizar muestras de suelo para determinar concentraciones de plomo en los siguientes lugares:

1. áreas exteriores de juego donde haya terreno con poca o ninguna vegetación; y
2. áreas cercanas al canal de desague y cimientos de la edificación donde el terreno tiene poca o ninguna vegetación.

I. Toda hojuela de pintura, particulado o suelo deberá tomarse utilizando metodología documentada que incorpore los procedimientos adecuados sobre control de calidad.

J. Toda hojuela de pintura, particulado o suelo recolectado deberá analizarse en conformidad con la Regla 1559 de este Capítulo para determinar si contiene niveles detectables de plomo que puedan cuantificarse numéricamente.

K. El Evaluador de Riesgos deberá preparar un informe sobre la evaluación de riesgos. Este incluirá la siguiente información:

1. dirección de la edificación;
2. fecha de construcción de la edificación;
3. número de apartamentos (si aplica);
4. fecha de la evaluación;
5. nombre, dirección y números de teléfonos de cada dueño de la edificación
6. nombre, firma y número de certificación del evaluador de riesgos que realizó las pruebas;
7. nombre, dirección y número de teléfono de la empresa que realizará la mitigación de pintura con base de plomo y que empleó al evaluador de riesgos, si aplica;
8. nombre, dirección y números de teléfono de cada laboratorio reconocido que realizará los análisis de las pruebas recolectadas;
9. resultados de la inspección visual;
10. métodos de prueba y procedimiento de muestreo utilizado para analizar la pintura;

11. localización específica de cada componente pintado sometido a prueba para detectar plomo;
12. todos los datos recopilados de las pruebas tomadas en el lugar, incluyendo los datos de control de calidad y, de haberse utilizado, los números de serie de cualquier instrumento XFR;
13. todos los resultados de los análisis de laboratorio realizados a las muestras recolectadas de pintura, suelo y particulado;
14. cualesquiera otros resultados de los muestreos;
15. cualquier información básica recopilada conforme al inciso (C) de esta Regla;
16. los resultados de cualquier otra investigación o análisis para detectar la presencia de pintura con base de plomo, u otras evaluaciones de riesgos provocados por pintura con base de plomo en la medida en que se haya utilizado como parte de la evaluación de riesgo;
17. una descripción del lugar, el tipo y la severidad de los riesgos provocados por la pintura con base de plomo y otros riesgos potenciales relacionados con plomo; y.
18. una descripción de las opciones para los controles provisionales y/o las mitigaciones y sugerencias para establecer un orden de prioridad para tratar cada riesgo. Si se recomienda el uso de un aislante o de una barrera, el informe deberá recomendar un itinerario para el mantenimiento y monitoría del aislante o la barrera.

Regla 1554 – Mitigaciones

A. Ninguna persona podrá realizar actividades de mitigación de plomo, salvo aquellas autorizadas por la Junta de Calidad Ambiental.

B. Antes de llevar a cabo cualquier actividad de mitigación, la persona deberá obtener un permiso de la Junta de Calidad Ambiental. Las actividades de mitigación de plomo deberán realizarse en conformidad con los procedimientos y requisitos establecidos en este Capítulo.

C. Se requiere un supervisor de mitigación de pintura con base de plomo para cada proyecto de mitigación y dicho supervisor deberá estar en el lugar todo el tiempo mientras las

actividades de mitigación se realicen. Esto incluirá las actividades de preparación, limpieza, disposición y pruebas asociadas con tales medidas.

D. La notificación de un proyecto de mitigación de pintura con base de plomo en una vivienda, instalación ocupada por niños o vivienda multifamiliar se hará en formularios provistos por la Junta de Calidad Ambiental. Se presentará a la Junta de Calidad Ambiental quince (15) días antes de la fecha de inicio del proyecto de mitigación para poder obtener un permiso para comenzar cuaquier actividad de mitigación de pintura con base de plomo, según las especificaciones establecidas en la Regla 1556 de este Capítulo.

E. Las actividades de mitigación no deberán comenzar hasta que la Junta de Calidad Ambiental haya concedido el permiso para el proyecto de mitigación, en conformidad con lo establecido en la Regla 1556 de este Capítulo.

F. Deberá desarrollarse un plan de protección de residentes para todo proyecto de mitigación y deberá prepararse de acuerdo con los siguientes procedimientos:

1. El plan de protección de residentes deberá ser particular para cada vivienda, vivienda multifamiliar o instalación ocupada por niños y deberá desarrollarse previo a la mitigación. El mismo deberá describir las medidas y los procedimientos gerenciales que deberán llevarse a cabo durante la mitigación para proteger a los residentes del edificio de la exposición a cualquier riesgo relacionados con la pintura con base de plomo.
2. Un Diseñador de Proyecto, deberá preparar el plan de protección de residentes.

G. Prohibiciones sobre Prácticas de Trabajo

1. Se prohibe la quema, o quema mediante antorcha, al aire libre, de la pintura con base de plomo.
2. Se prohibe lijar o pulverizar la pintura con base de plomo mediante máquina, o abrasión a chorro o con chorro de arena, salvo que dichos procesos se realicen con un control de tubo de escape de Alta Eficiencia para Aire Particulado (High

Efficiency Particulate Air, en adelante HEPA, por sus siglas en inglés) capaz de remover del aire partículas de 0.3 micrones o mayores con una eficiencia de noventinueve por ciento (99.97%) o mayor.

3. El raspado en seco de la pintura con base de plomo se permite solamente en conjunto con inyectores de calor o alrededor de enchufes eléctricos o cuando se dé tratamiento a áreas de pintura defectuosa no mayores de dos (2) pies cuadrados en un cuarto, pasillo, escalera o áreas no mayores de veinte (20) pies cuadrados en una superficie exterior; y,

4. Solamente se permite operar un inyector de calor sobre pintura con base de plomo cuando la temperatura sea menor de mil cien (1100) grados Fahrenheit.

H. La mitigación de suelo debe realizarse de la siguiente manera:

1. Si se remueve el suelo, el terreno contaminado con plomo, debe sustituirse con terreno que no esté contaminado con plomo; o

2. Si no se remueve el suelo contaminado con plomo debe cubrirse permanentemente.

I. Los procedimientos para determinar niveles de limpieza luego de la mitigación, deben realizarse solamente por un Inspector de mitigación o un Evaluador de Riesgos.

1. Luego de una mitigación, se llevará a cabo una inspección visual para determinar si aún hay superficies con pintura deteriorada o cantidades visibles de particulado, escombros o residuos, o ambas cosas. Si hay superficies con pintura deteriorada o cantidades visibles de particulado, escombros o residuos, estas condiciones deben eliminarse antes de continuar los procedimientos para determinar niveles de limpieza.

2. Luego de la inspección visual y cualquier limpieza requerida después de la mitigación por la Regla 1554(I)(l), se llevará a cabo un muestreo para determinar los niveles de limpieza y precisar si aún existe particulado contaminado con plomo. La muestra para determinar niveles de limpieza puede realizarse usando un muestreo de superficie o mediante técnicas de muestreo compuesto.

3. Las muestras de plomo para propósitos de determinar los niveles de limpieza de la mitigación, se tomarán utilizando metodología documentada que incorpore los

procedimientos adecuados del plan de certeza de calidad. Las muestras de polvo para determinar los niveles de limpieza deberán tomarse luego de una (1) hora a partir del momento en que se completaron las actividades de limpieza posteriores a la mitigación.

4. Las siguientes actividades de determinación de niveles de limpieza posteriores a la mitigación se llevarán a cabo basándose en el alcance o la manera en que se realizaron las actividades de mitigación dentro o fuera de las viviendas o instalaciones ocupadas por niños:

(a) Luego de llevar a cabo una mitigación por contención entre las áreas mitigadas y no mitigadas, se tomará una muestra de polvo de una ventana (si la hay disponible) y una muestra de particulado del piso de no menos de cuatro (4) cuartos, pasillos o escaleras dentro del área de contención. Además, se tomará una muestra del piso fuera del área de contención. Si hay menos de cuatro cuartos, pasillos o escaleras dentro del área de contención, entonces se realizarán pruebas a todos los cuartos, los pasillos y las escaleras.

(b) Luego de llevar a cabo una mitigación sin contención, se tomarán dos (2) muestras de no menos de cuatro (4) cuartos, pasillos o escaleras en la vivienda o instalación ocupada por niños. Se tomará una muestra de particulado de una ventana (si existe) y se tomará una muestra de particulado de cada cuarto, pasillo o escalera seleccionada. Si hay menos de cuatro cuartos, pasillos o escaleras en la vivienda o instalación ocupada por niños, entonces deberán tomarse muestras de todos los cuartos, pasillos y escaleras.

(c) Luego de una mitigación de pintura exterior, se llevará a cabo una inspección visual. Deberá determinarse si todas las superficies horizontales en el área exterior de la vivienda más cercana a la superficie mitigada están libres de particulado y escombros. Además se realizará una inspección visual para determinar la presencia de hojuelas de pintura en la línea del canal del desague y cerca de los cimientos de la edificación que estén debajo del área mitigada. Si hay hojuelas de pintura, éstas deberán removerse del lugar y

disponerse de ellas adecuadamente conforme a las normas aplicables establecidas por la Junta de Calidad Ambiental y en conformidad con todos los requisitos federales y estatales.

5. Los cuartos, los pasillos o las escaleras seleccionadas para pruebas, deberán ser seleccionados de acuerdo a la metodología documentada.

6. El Inspector y el Evaluador de Riesgos, deberán comparar el nivel residual de plomo en el particulado (según determinado por el análisis de laboratorio) de cada muestra de particulado con los niveles de limpieza que aplican para plomo en el particulado sobre pisos y ventanas. Si los niveles residuales en una muestra de particulado exceden los niveles de limpieza establecidos, todos los componentes representados por la muestra desaprobada deberán limpiarse nuevamente y someterse a pruebas hasta alcanzar los niveles de limpieza adecuados.

J. En una vivienda multifamiliar con viviendas de construcción y mantenimiento similar, se podrán tomar muestras al azar para propósitos de determinar los niveles de limpieza de la mitigación, siempre y cuando:

1. las personas certificadas que mitigaron o limpiaron la vivienda no sepan cuáles viviendas serán seleccionadas para las pruebas al azar;

2. se seleccione un número considerable de viviendas para las pruebas de particulado que provean un noventa y cinco por ciento (95%) de nivel de confiabilidad de que no más de cinco por ciento (5%) ó cincuenta (50) de las viviendas (lo que sea menor) en la población seleccionada al azar excede los niveles de limpieza adecuados;

3. a las viviendas seleccionadas al azar se les tomará muestras y se evaluarán para determinar los niveles de limpieza, en conformidad con los procedimientos establecidos en la inciso (I) de esta Regla.

K. La notificación de terminación del proyecto de mitigación deberá ser preparada por un Supervisor de mitigación o un Diseñador de Proyectos. La notificación se preparará en formularios provistos por la Junta de Calidad Ambiental e incluirán, sin limitarse a, la siguiente información:

1. fecha de inicio y terminación de la mitigación;
2. nombre y dirección de cada empresa que haya realizado la mitigación y el nombre de cada supervisor asignado al proyecto de mitigación;
3. el nombre y el cargo del supervisor o el diseñador de proyectos que preparó el plan para protección de residentes, en conformidad con el inciso (F) de esta Regla.
4. el nombre, la dirección, la firma y la empresa de cada evaluador de riesgos o del inspector que realizó el muestreo para determinar los niveles de limpieza y la fecha de las pruebas para determinar los niveles de limpieza.
5. los resultados de las pruebas para determinar niveles de limpieza, todos los análisis del suelo (si aplica) y el nombre de cada laboratorio reconocido que llevó a cabo el análisis.
6. una descripción escrita y detallada de la mitigación, incluyendo los métodos de mitigación utilizados, localización de los cuartos y/o los componentes, lugar donde ocurrió la mitigación, la razón para seleccionar los métodos particulares de mitigación para cada componente, y cualquier monitoría de los aislantes y las barreras.

L. La notificación de terminación del proyecto de mitigación se presentará a la Junta de Calidad Ambiental no más tarde de los treinta (30) días laborables siguientes a la fecha de terminación del proyecto de mitigación de pintura con base de plomo. En dicha notificación, la empresa que realizó la mitigación certificará que las actividades fueron realizadas de acuerdo a lo establecido en este Reglamento, el plan de protección de residentes y las condiciones impuestas en el permiso de mitigación emitido por la Junta de Calidad Ambiental.

Regla 1555- Muestreo Compuesto de Partuculado Contaminado con Plomo

(A) Los muestreos compuestos de particulado sólo pueden llevarse a cabo en las situaciones especificadas en las Reglas 1552 a 1554 de este Capítulo. De realizarse dicho muestreo, las siguientes condiciones aplicarán:

1. una muestra compuesta de polvo consistirá de, al menos, dos submuestras;
2. cada componente que ha sido sometido a prueba será incluido en el muestreo; y
3. las muestras compuestas de particulado no consistirán de submuestras de más de un tipo de componente.

Regla 1556- Permisos para Mitigar Pintura con Base de Plomo

A. Toda solicitud de permiso de mitigación de pintura con base de plomo se presentará en formularios provistos o aprovados por la Junta de Calidad Ambiental. La solicitud incluirá, pero sin limitarse a, la siguiente información:

1. Nombre, dirección, nombre de persona contacto y número de teléfono del dueño y el operador de la vivienda concernida o la instalación ocupada por niños;
2. Nombre, número de certificación, dirección, nombre de la persona contacto y número de teléfono de la empresa mitigadora de pintura con base de plomo;
3. Nombre, número de certificación, dirección, empresa y número de teléfono del inspector y del evaluador de riesgos;
4. Nombre, número de certificación, dirección, empresa y número de teléfono del diseñador de proyectos;
5. Localización y dirección física donde se realiza la mitigación;
6. Fechas de comienzo y terminación del trabajo activo de la mitigación de pintura con base de plomo, incluyendo el trabajo preparatorio y de limpieza final;
7. Calendario de trabajo, incluyendo los días de la semana y las horas que se trabajarán;
8. La cantidad de desperdicio que será generado.
9. Método(s) que se utilizará(n) para la mitigación;
10. Transportador de desperdicios, dirección, persona de contacto y número de teléfono;
11. Lugar autorizado por la Junta de Calidad Ambiental para la disposición de los desperdicios, dirección, persona contacto y número de teléfono;

12. En caso de mitigaciones de emergencia ordenadas, el nombre, el título y la autoridad del representante federal, estatal o administrativo que ordenó la mitigación, la fecha en que se emitió la orden y la fecha para la cual se ordenó que se iniciará la mitigación;

13. En caso de mitigaciones de emergencias, una descripción de la naturaleza de la emergencia y una explicación de cómo el fallar en corregir la situación podría ocasionar un riesgo a la salud, bienestar o medio ambiente;

14. Valor total del trabajo de mitigación de pintura con base de plomo a ser autorizado por el permiso;

15. Número total de las unidades de viviendas o instalaciones ocupada por niños que serán mitigadas, o ambas;

16. La firma original del representante de la empresa mitigadora y la fecha; y

17. Cualquier otra información que la Junta de Calidad Ambiental entienda sea necesaria.

B. Calendario de las solicitudes para permisos de mitigación de pintura con base de plomo:

1. Las solicitudes para proyectos de mitigación de pintura con base de plomo debe estar sellada por el correo o entregado a la mano en la Junta de Calidad Ambiental por lo menos quince (15) días naturales con anticipación a la fecha de comienzo pautada;

2. Un proyecto en el cual es necesario realizar una mitigación de pintura con base de plomo con carácter de urgencia estará exento de la notificación de los quince (15) días naturales si se determina que debe ser considerado como un proyecto de mitigación urgente y fuere así aprobado por el evaluador de riesgo y la Junta de Calidad Ambiental antes del inicio de las actividades de mitigación.

3. La solicitud para el permiso con carácter de urgencia deberá estar sellada en el correo o entregado a mano a la Junta de Calidad Ambiental tan pronto como sea posible, pero no más tarde del día laborable antes de la mitigación de la pintura con base de plomo. Las solicitudes para proyectos de mitigación de emergencia se presentarán con una carta del dueño o del evaluador de riesgos provocados por pintura con base de plomo que explique la naturaleza de la emergencia.

C. Las solicitudes de permisos para mitigación de pintura con base de plomo deberán acompañarse con una cuota por proyecto de acuerdo con la Regla 1557 de este Capítulo. Las cuotas por proyectos se presentarán mediante cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental-Proyecto de Plomo.

D. Las solicitudes para modificar un permiso emitido para una mitigación de pintura con base de plomo deberán ser presentadas por el solicitante por escrito en un formulario provisto por la Junta de Calidad Ambiental y debe recibirse de acuerdo a lo siguiente:

1. La petición de modificación de la fecha de inicio cuando el proyecto comenzará antes de la fecha de previamente aprobada por la Junta de Calidad Ambiental debe ser recibida antes de la fecha previamente aprobada y al menos quince (15) días antes de una nueva fecha de inicio;
2. La petición de modificación a la fecha de inicio cuando el proyecto comenzará luego de la fecha previamente aprobada por la Junta de Calidad Ambiental debe ser recibida antes de la fecha previamente aprobada en el permiso;
3. La petición de modificación a la fecha de terminación cuando el proyecto terminará antes de la fecha previamente aprobada por la Junta de Calidad Ambiental debe ser recibida antes de la nueva fecha de terminación;
4. La petición de modificación a la fecha de terminación cuando el proyecto terminará después de la fecha previamente aprobada por la Junta de Calidad Ambiental debe ser recibida antes de la fecha previamente aprobada.
5. Las peticiones de modificación a un permiso cuando no son sobre las fechas de inicio o terminación deben ser recibidas por la Junta de Calidad Ambiental 15 días antes de iniciar la actividad objeto de la modificación.

E. La siguiente documentación deberá mantenerse en el lugar de trabajo durante las actividades de mitigación y debe ponerse a la disposición los funcionarios de la Junta de Calidad Ambiental para su revisión:

1. una copia del permiso de mitigación emitido por la Junta de Calidad Ambiental con todas sus revisiones y el acuse de recibo de las mismas ;

2. el plan de protección de residentes;

3. una copia de los diseños de mitigación de pintura con base de plomo, la evaluación de riesgos y la inspección del proyecto; y

4. las tarjetas de certificación emitidas por la Junta de Calidad Ambiental de todas las personas y empresas certificadas para realizar las actividades de mitigación de pintura con base de plomo.

F. Todas las actividades de mitigación permitidas deberán llevarse a cabo en conformidad con lo dispuesto en el Capítulo VI de este Reglamento.

G. Todas las actividades de mitigación permitidas deberán llevarse a cabo bajo la dirección de un supervisor de mitigación, quien estará en el lugar en todo momento mientras se realizan actividades de mitigación.

H. La Junta de Calidad Ambiental podrá suspender, modificar y revocar la aprobación de un permiso de mitigación por cualquier violación de esta Regla. La Junta de Calidad Ambiental podrá revocar el permiso si determinase que fue emitido basado en información incorrecta o inadecuada que afectó sustancialmente la decisión de emitir el permiso.

Regla 1557 - Cuotas por Proyecto

A. Con la solicitud de permiso, la empresa o el supervisor de mitigación de plomo deberá presentar a la Junta de Calidad Ambiental una cuota por cada proyecto de mitigación de pintura con base de plomo con al menos quince (15) días naturales de anticipación a la fecha de inicio de cada proyecto de mitigación. Las cuotas por proyecto se presentarán en cheque certificado o giro postal pagadero a la Junta de Calidad Ambiental - Proyecto de Plomo. Las cuotas por proyecto se basarán en la siguiente fórmula:

1. Instalaciones Ocupadas por Niños: Una cuota de radicación de cincuenta dólares ($50) y una cuota de permiso por la suma de quinientos dólares ($500) por cada instalación ocupada por niños más el dos porciento (2%) del valor total del trabajo autorizado por el permiso.

2. Unidad de Vivienda: Una cuota de radicación por la suma de cincuenta dólares ($50) y una cuota de permiso por la suma de cien dólares ($100) por cada unidad de vivienda autorizada por el permiso. En caso de proyectos que excedan de 5 unidades de vivienda, la cuota de radicación será de cincuenta dólares ($50) y la cuota de permiso será de quinientos dólares ($500) más un dos porciento (2%) del valor total del trabajo de mitigación de pintura con base de plomo autorizado por el permiso.

3. Proyecto Mixto: (Proyecto que contiene tanto viviendas como instalaciones ocupadas por niños); Una cuota de radicación por la suma de cincuenta dólares ($50) y una cuota de permiso por la suma de quinientos dólares ($500) por cada instalación ocupada por niños más el dos porciento (2%) del valor total del trabajo de mitigación de pintura con base de plomo autorizado por el permiso.

4. Las cuotas de radicación no serán reembolsables.

Regla 1558 - Condiciones Sobre el Permiso; Manifiesto

A. La Junta de Calidad Ambiental impondrá en los permisos otorgados bajo esta Regla los términos y condiciones que se enumeran a continuación, con los que estará de acuerdo el solicitante al aceptar el permiso:

1. El poseedor cumplirá con todas las condiciones del permiso y cualquier incumplimiento constituirá una violación a este Reglamento. La Junta de Calidad Ambiental podrá llevar a cabo cualquier acción, según sea necesario, para obligarlo a cumplir.

2. La Junta de Calidad Ambiental podrá modificar o revocar un permiso motu proprio o a solicitud del poseedor del mismo.

3. La Junta de Calidad Ambiental podrá solicitar al poseedor de un permiso que dentro de un término razonable provea cualquier información o documentación para determinar si existe causa para modificar, revocar o para determinar si se está cumpliendo con sus términos;

4. Si el poseedor del permiso se percata de haber sometido alguna información incorrecta lo notificará inmediatamente a la Junta de Calidad Ambiental y brindará la información completa y correcta dentro del término de cinco (5) días a partir del hallazgo;

5. El permiso no se podrá transferir;

B. Todo cargamento de desperdicios sólidos generados por una actividad de mitigación de pintura con base de plomo a ser enviado a una instalación de disposicion final deberá acompañarse con un manifiesto. Los requisitos de manejo de manifiesto serán como sigue:

1. El manifiesto deberá prepararse en un formulario provisto por la Junta de Calidad Ambiental.

2. Toda persona que se le requiera llenar cualquier manifiesto, deberá asegurarse de que la información que provea sea cierta y que resulte elegible y adecuada en las tres (3) copias de mismo;

3. El poseedor del permiso tiene la obligación de originar el proceso de manifiesto al enviar sus desperdicios hacia una instalación de disposición final. Deberá además:

   a. incluir dirección postal del poseedor del permiso y número de permiso;

   b. incluir dirección física del lugar donde se realiza la actividad;

   c. indicar la cantidad de desperdicios ha ser enviados y el lugar ha ser dispuesto;

   d. firmar y fecharlo certificando el envío del desperdicio.

4. El manifiesto deberá acompañar el envío del desperdicio mientras esté en transito hasta la instalación de disposición final.

5. Toda instalación de disposición final al recibir los desperdicios acompañado de un manifiesto deberá:

   a. firmar y fechar el manifiesto certificando haber recibido el desperdicio según descrito en el documento.

   b. devolver las páginas uno (1) y dos (2) del manifiesto al poseedor del permiso.

   c. retener la página número tres (3) del manifiesto para su archivo.

6. Al terminar la actividad de mitigación de plomo, el poseedor del permiso someterá a la Junta de Calidad Ambiental la página número uno (1) de todos los manifiestos originados devueltos por la instalación de disposición final certificando la disposición adecuada de los desperdicios generados durante la actividad de mitigación de plomo permitida y retener todas las páginas número dos (2) para su archivo;

7. El poseedor del permiso retendrá por dos (2) años a partir de la fecha de finalización de la actividad de mitigación de plomo, las páginas número dos (2) de los manifiestos.

Regla 1559 - Recolección y Análisis de Laboratorio de las Muestras

A. Toda muestra de hojuelas de pintura, particulado o suelo recolectado según las normas de trabajo contenidas en este Capítulo deberán ser:

1. Recolectadas por personas certificadas por la Junta de Calidad Ambiental como Inspectores o Evaluadores de Riesgos.
2. Analizadas por un laboratorio reconocido por la EPA para realizar análisis para suelo y agua determinar la presencia de compuestos de plomo en muestras de hojuelas de pintura y suelo.
3. Todo resultado de análisis de plomo, informe de laboratorio o certificado de análisis debe ser certificado por un químico licenciado en Puerto Rico.

Regla 1560 - Mantenimiento de Expedientes y Registros

A. La persona o empresa certificada que haya preparado informes o planes requeridos por este Capítulo, deberá mantenerlos por un término no menor de cinco (5) años, excepto en aquellos casos en que si se dispone algún término diferente en este Reglamento. Dicha persona o empresa deberá proveer copias de los informes al dueño de la edificación que contrató sus servicios, si éste lo solicita

Regla 1561 - 1569 - Reservadas.

CAPÍTULO VII

NIVELES DE LIMPIEZA DE PLOMO

Regla 1570- Niveles de Limpieza

En todo proyecto de mitigación, los procedimientos para determinar los niveles de limpieza deberán llevarse a cabo por un Inspector de mitigación o un Evaluador de Riesgos certificados por la Junta de Calidad Ambiental, luego de completar los procedimientos adecuados de limpieza. Deberá cumplirse con los siguientes niveles de plomo:

Normas de niveles de limpieza de polvo (Prueba de paño solamente)

Superficie	*Nivel (ug/pie^2)*
Piso	50
Piso alfombrado	250
Canal interior de la ventana	250
Umbral de la ventana	800
Concreto exterior	800

Suelo Residencial sin Vegetación	*Nivel (ppm)*
Criterio para remover o asfaltar	2000
Perímetro y patio de la edificación	2000
Areas de juego y de alto contacto para niños	400

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Message from the President

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NITON

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These materials are classroom handouts and are not intended for any use except to provide students with a convenient way to take notes in class. All operational directions and procedural methods are provided in the NITON Instruction Manual.

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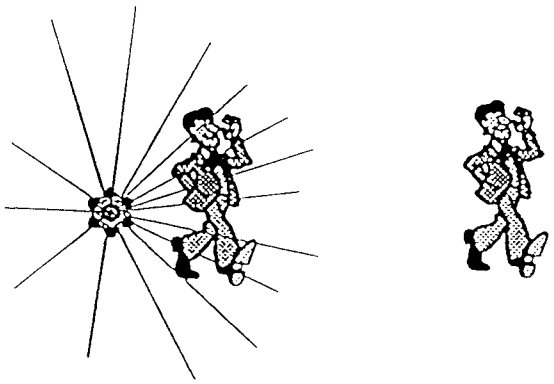
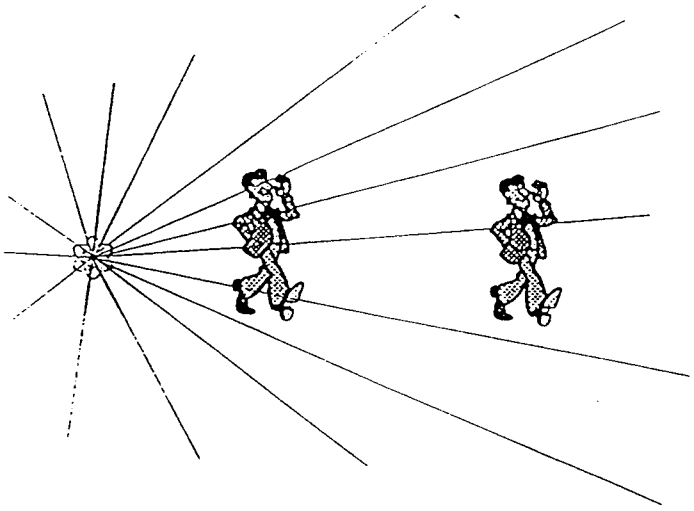
Basic Methods of Radiation Protection



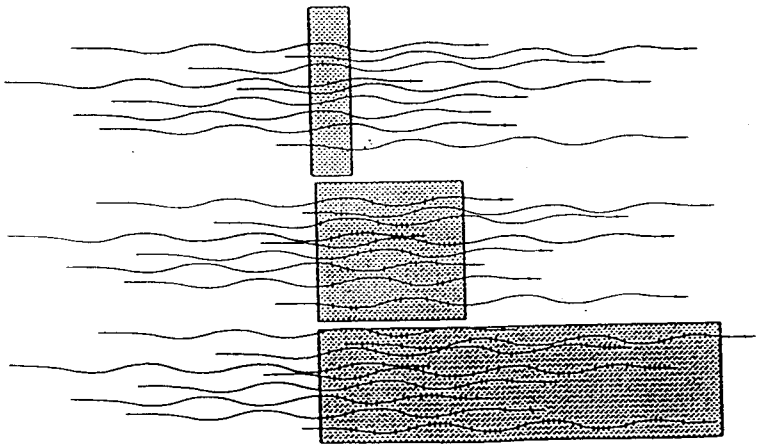
TIME

Decreasing the time of exposure. There is a linear relationship between the length of time that a person is exposed and their total dose. The longer you are exposed, the higher your dose.



DISTANCE

Increasing the distance between the source of radiation and the person. Radiation is spreading out at all directions from a radioactive source. As you travel further away from the source, fewer of the radioactive particles will strike you. For a point source, your exposure will be reduced by the ratio of the exposure levels divided by the respective distances, squared, between two locations.



SHIELDING

Increasing the amount of shielding between the source of radiation and the person.

For X-Rays and Gamma rays, increasing the thickness of shielding will reduce the penetration of those photons. While not 100% shielded, the level can be reduced to acceptabl levels.

ALARA

ALARA is a policy to lower exposure to radiation. It stands for "As Low As Reasonably Achievable" It means that, regardless of the exposure level, reasonable steps should be taken to further reduce exposure (even if you are below the regulatory limits)

EXPOSURE LEVELS

There are exposure limits for various parts of the body.

OSHA exposure limits that would be of concern to NITON XRF users are:

Whole body exposure	5,000 mREM/yr	1,250 mREM/ quarter
Extremities	75,000 mREM/yr	17,500 mREM/ quarter

Individual states may have limits set for the exposure of the public The lowest of these is 100 mREM/yr and 1 mREM/ day.

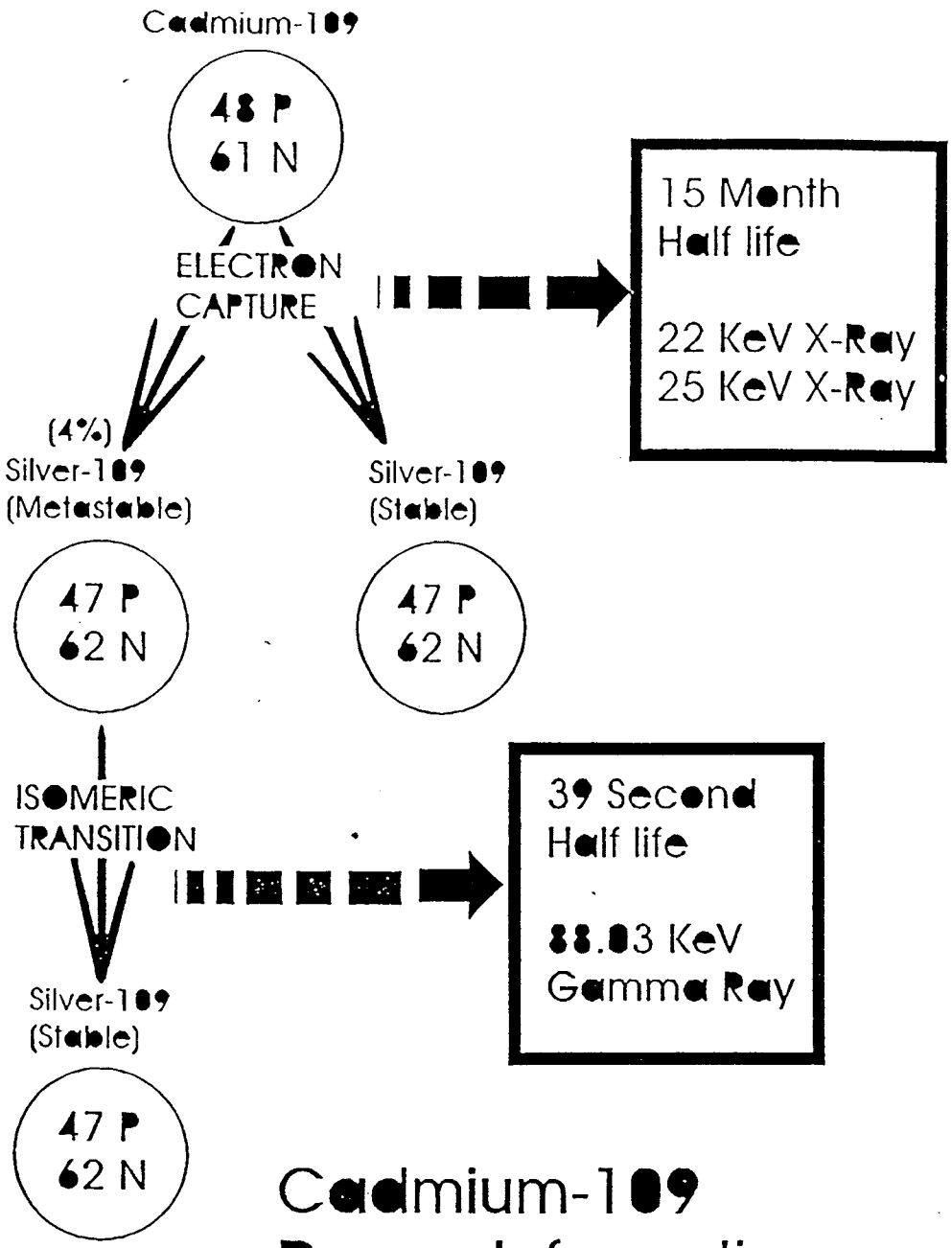
<u>Example</u>

Let's say, for example, you were to measure an exposure level (of X-rays) of a person of 0.1 mRAD/HR with a Geiger counter. You would need to know how long a person was exposed at that level to calculate their dose (let's say 3 hours for this example). So, 0.1 mRAD/HR multiplied by 3 hours gives 0.3 mRAD Since the QF=1, their dose would be 0.3 mREM.

SPECIFIC SAFETY PRACTICES FOR NITON XRFs

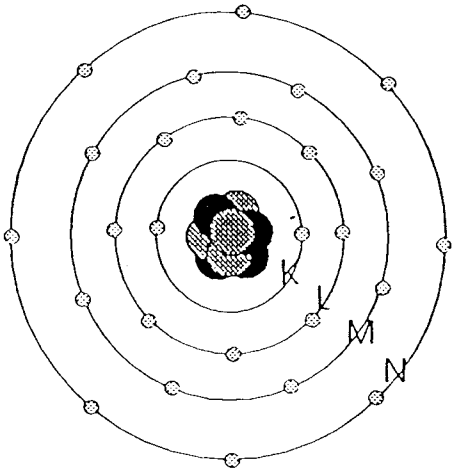
Some safety practices should be followed with the use of the NITON XRF:

- Never point the XRF at yourself or anybody else with the shutter open when they or you are within a distance to be exposed.
- Stand to the rear or side of the XRF when the shutter is open.
- Do not fix the shutter in an open position (except in provided test stands).
- Do not leave the XRF unattended.
- Store the XRF in a safe place. Do not drop the machine (or put the instrument in a position where it will be likely to be dropped).
- Wear a dosimeter ring (if regulations require).
- Perform wipe tests, per manufacturer's instructions.
- Women of child bearing age should be aware of the potential damage to a developing fetus from radiation exposure.
- Transport XRF in a shock-proof case.
- Follow all manufacturer's training and instructions.

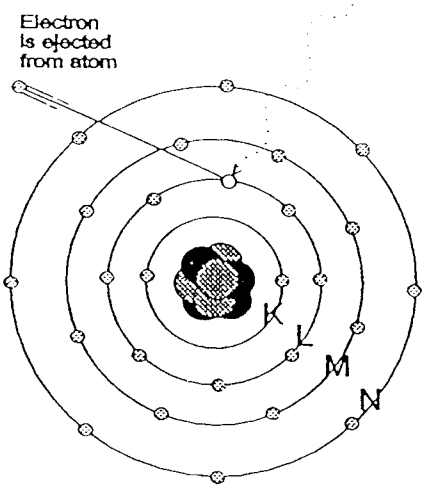


Cadmium-109 Decay Information

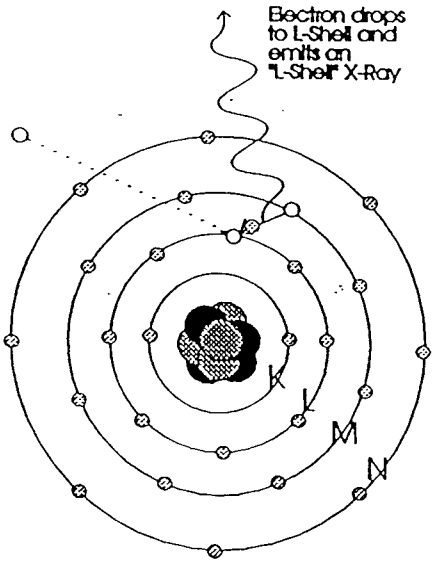
The ^{109}Cd undergoes radioactive decay in a two step process. The ^{109}Cd decays to Silver-109 (^{109}Ag). In doing so, X-rays of two energies are released, 22 KeV and 25 KeV. Both of these X-rays have enough energy to cause L-shell fluorescence in the lead atom.
Approximately four percent of the time the ^{109}Ag that is formed is not stable. This unstable ^{109}Ag further decays (almost immediately) to the stable form of ^{109}Ag. In doing so, it releases a Gamma Ray with an energy of 88.03 KeV. This Gamma Ray has enough energy to cause K-shell fluorescence in the lead atom.



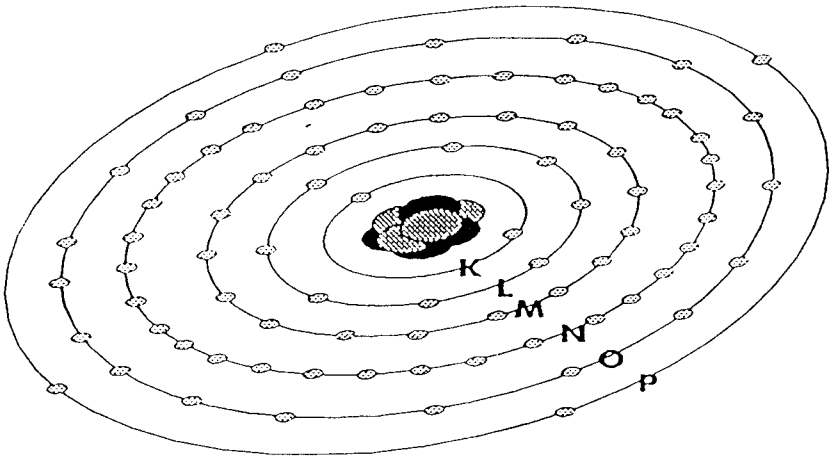
The center of an atom (the nucleus) is occupied by protons and neutrons. Electrons orbit around the nucleus of the atom. For an uncharged atom, the number of electrons equals the number of protons. For each element, the electrons are orbiting the nucleus at different energy levels. These "orbits" or "shells" each contain a specific number of electrons. The shells closest to the nucleus get filled first and the shells get filled from the inner-most to the outer-most shell. Shells are named with the inner-most being the K-shell, then L-shell, etc., alphabetically named. The K-shell electrons can be thought of as having the lowest level of stored energy. The further out the electron shells are, the higher the energy level they have stored (the L-shell electrons have more stored energy than the K-shell electrons, the M shell electrons have more stored than the L shell, etc.).

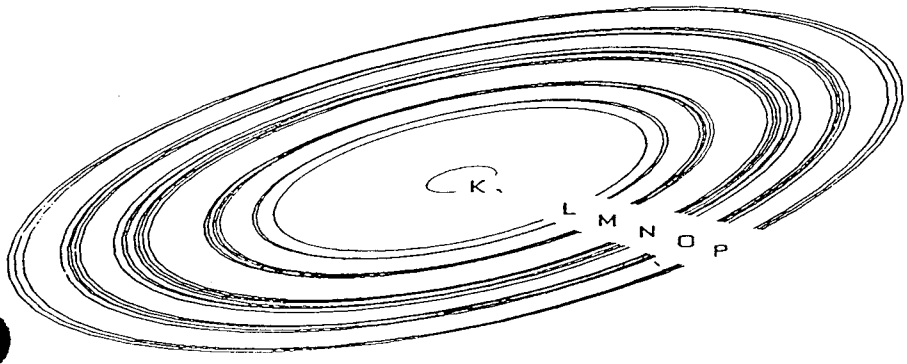


A photon of high enough energy hits a K-shell or L-shell electron and knocks it out of the atom. For lead, to remove K-shell electrons require 88 KeV and to remove L-shell electrons requires 16 KeV. In the NITON XRFs, the photons of energy that cause fluorescence is provided by a radioactive source (^{109}Cd) in the instrument. The Cadmium-109 is a source of photons at 22 KeV, 25 KeV, and 88.03 KeV. For lead atoms, these photons cause fluorescence and generate both K-shell and L-shell X-rays.

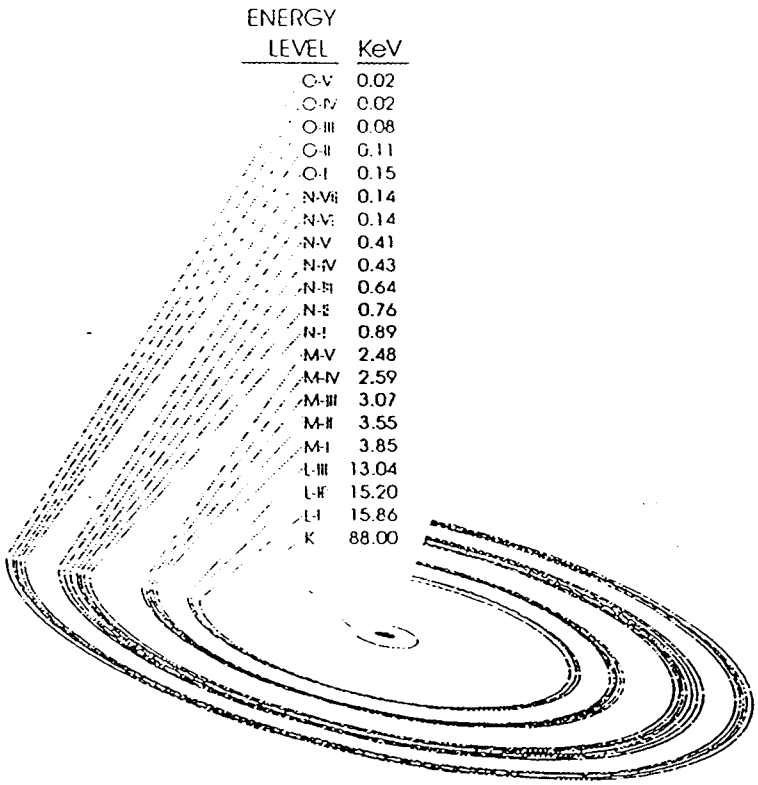


The vacancy that is created from the electron being ejected is filled by a more outer shell electron. In dropping to the lower energy level, the electron gives off energy in the form of an X-ray (for K-shell and L-shell for lead atoms). This X-ray is detected by the XRF, identified as being from lead, and the number of X-rays detected are used to determine the lead concentration.



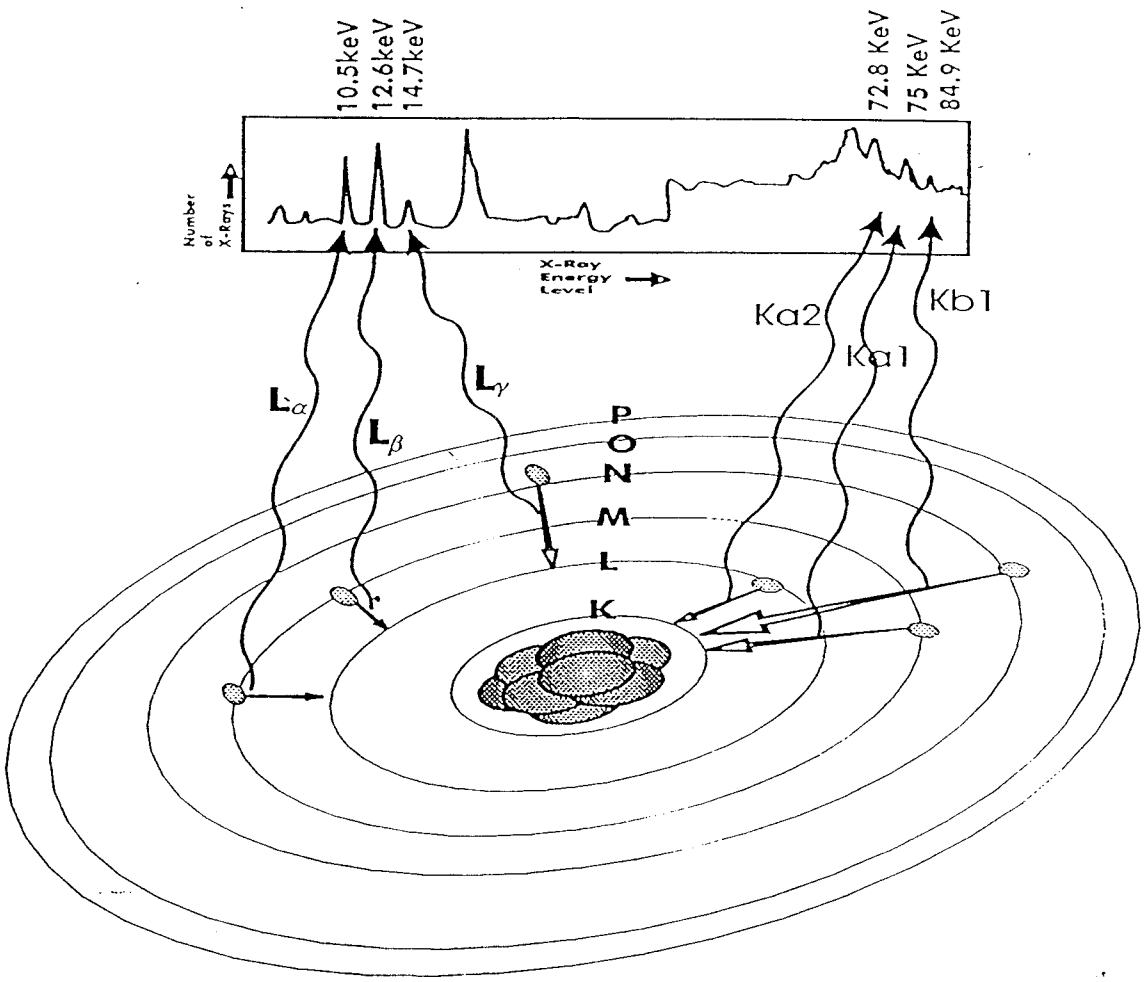


This depiction shows the different energy levels in the lead atom. Note that most of the shells have more than one energy level within it for its electrons.



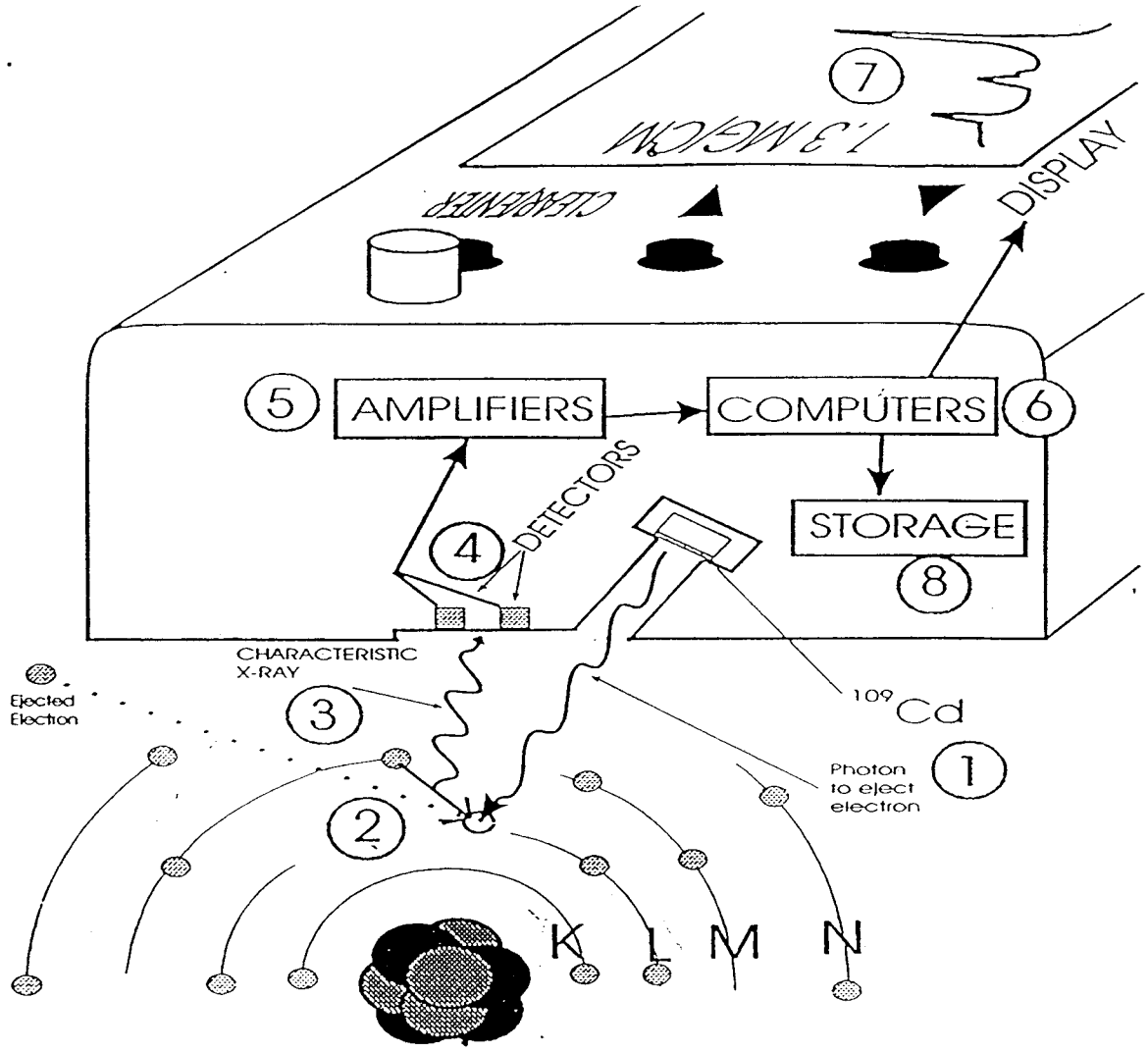
This depiction gives the different binding energy levels in the lead atom. After an electron is ejected from an atom, its vacancy is filled by an electron from an outer shell. The resultant photon will have the energy of the difference in energy levels of the vacated electron and the electron that fills that vacancy.
Since the energy levels of the shells are unique for each atom, the differences will be unique. (This is only mostly true, since there can be the same energy difference from two different shells of another atom.

After the X-rays are measured by the NITON XRFs they are stored as an energy spectrum. The energy spectrum has the number of X-rays displayed on the Y-axis and the energy level of those X-rays on the X-axis. The NITON XRFs are classified as "spectrum analyzers". To determine the elemental concentration, the instrument examines only the energy region where that element's X-rays are located. The number of returning X-rays determines the concentration.

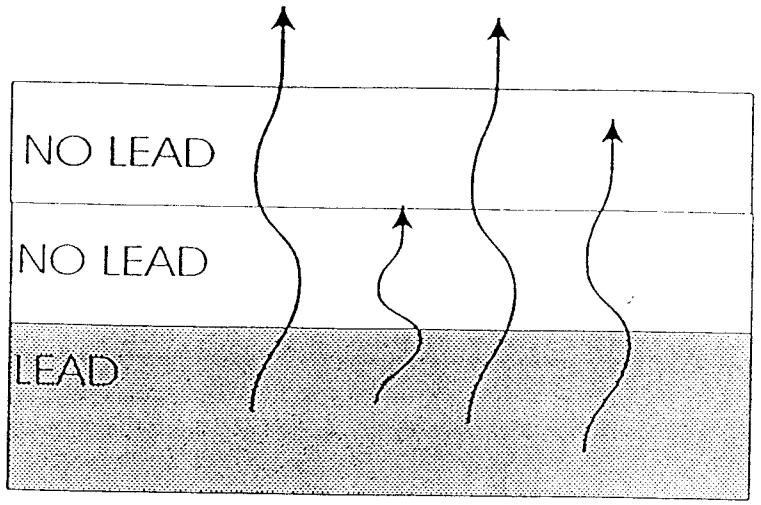


An electron may be ejected from more than one L-shell energy level (but only one for K-shell). Also, the electron vacancy can be filled by an electron in the next higher shell or can be filled by an electron from an even higher shell. As a result of this, K-shell and L-shell fluorescence results in each having several distinct energies of X-rays being generated. The relative occurrence of these peaks is in a constant ratio. We can use the fact that several peaks must be present at the same time and in a certain ratio to further confirm the identity of the element that we are trying to measure.

With the NITON XRF there are three L-shell X-rays that are generated with enough frequency that allow them to be measured. Similarly, there are three K-shell X-rays that occur often enough to be measured. The L-shell X-rays are at 10.5 KeV (L-alpha), 12.6 KeV (L-beta), and 14.7 KeV (L-gamma). The K-shell X-rays are at 72.8 KeV (K-alpha-2), 75 KeV (K-alpha-1), and 84.9 KeV (K-beta-1).



1. ^{109}Cd source emits photons with energies high enough to cause K-shell and L-shell fluorescence.
2. K-shell and L-shell electrons are ejected from the atom. Some photons are scattered by the material being tested.
3. An electron from a higher energy shell drops down to fill the vacancy created by the ejected electron. This electron gives off its excess energy in the form of a characteristic X-ray.
4. The two detectors each count and measure the energies of the X-rays that hit them.
5. The amplifier sections amplifies the signals from the detectors and converts them to digital form for input into the computer section.
6. The computers take the digital signal and convert it into an energy spectra. The portions of the spectra that the characteristic X-rays for lead appear are examined and a lead concentration is independently calculated for both L-shell and K-shell X-rays. In STANDARD MODE one answer is given.
7. The result and sample number are given, along with other information (depending upon which mode you are in). The L-shell portion of the energy spectra is displayed (except in STANDARD MODE, where no spectra is displayed).
8. The readings, energy spectra for lead, and information that is entered through the bar code system are stored.



PAINT

XRFs measure the concentration of lead in paint by looking through all of the layers of paint and measuring the lead content.. The standard way that XRFs report lead concentration is as milligrams of lead per square centimeter of surface area measured (mg/cm^2).

A feature that most painted surfaces have in common is that they are not homogeneous. Different paints are made from different materials, in different concentrations

The X-rays that are generated by the lead in the paint need to travel through the non-lead paint to reach the detectors. The lower the energy of these X-rays, the more they will be shielded by the layers of paint.

The L-shell X-rays are of an energy level that they are partially shielded by the layers of paint on top of the lead. Because of this, a patented algorithm was developed by NITON to calculate lead concentration for L-shell X-rays, for paint. The algorithm compares the ratio of the L-beta (12.6 KeV) to the L-alpha peak (10.5 KeV). Both of these X-rays are partially shielded by the upper layers of paint. Because the L-beta X-rays are a higher energy level than the L-alpha X-rays, they are shielded to a lesser degree. By looking at the ratio of the number of these X-rays, the amount of shielding can be calculated. Once this is known, a correction can be made to the number of X-rays counted (in this case the L-beta X-ray) to determine the correct lead concentration in the paint.

For K-shell X-rays, the number of K-shell X-rays that are measured by the detector is counted. The X-rays are such high energy that they are relatively unaffected by the layers of paint on top of the lead paint. One disadvantage of using the K-shell X-rays is that they are affected by the sample substrate (to a larger or lesser degree, depending upon the substrate). Another disadvantage is the relatively small number of K-shell X-rays that are detected by the instrument.

Performance Characteristic Sheet

EFFECTIVE DATE: April 17, 1998 EDITION NO.: 4

MANUFACTURER AND MODEL :
Make: *Niton Corporation*
Models: *XL-309, 701-A, 702-A, and 703-A Spectrum Analyzers*
Source: ^{109}Cd (10 - 40 mCi initial source strength)
Note: This Performance Characteristic Sheet (PCS) is applicable to the listed Niton XRF instruments which have an operating software version of 5.1 (or equivalent) using a variable-time mode, and to Niton instruments having an operating software version of 1.2C (or equivalent) using a fixed-time mode. This sheet supersedes all previous sheets for the XRF instruments made by the Niton Corporation and the 1993 testing of XL prototypes reported in the document titled: *A Field Test of Lead-Based Paint Testing Technologies: Technical Report* (EPA Report No. 747-R-95-002b, May 1995).

FIELD OPERATION GUIDANCE

This PCS provides supplemental information to be used in conjunction with Chapter 7 (Lead-Based Paint Inspection) of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown in this sheet are applicable only when operating the instrument using the manufacturer's instructions and the procedures described in Chapter 7 of the HUD Guidelines.

OPERATING PARAMETERS:

Use of variable-time paint test mode ("K & L + Spectra" mode) on instruments running software version 5.1 (or equivalent) using the "Combined Lead Reading" with the instrument's display of a 95%--confident (2-sigma) *Positive* or *Negative* determination versus the action-level as the stopping point of the measurement.

Use of nominal 20-second readings for L-shell results or 120-second readings for K-shell results on instruments running software version 1.2C (or equivalent) in a fixed-time mode.

XRF CALIBRATION CHECK LIMITS:

0.9 to 1.2 mg/cm^2 (inclusive) for instruments running software version 5.1 (or equivalent)
0.9 to 1.1 mg/cm^2 (inclusive) for instruments running software version 1.2C (or equivalent)

SUBSTRATE CORRECTION :
(applicable to instruments running software versions 5.1 (or equivalent) or 1.2C (or equivalent))

For XRF results below 4.0 mg/cm^2, substrate correction recommended for:

None.

Substrate correction is <u>not</u> recommended for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

THRESHOLDS:
(applicable to instruments running software versions 5.1 (or equivalent) or 1.2C (or equivalent))

DESCRIPTION	SUBSTRATE	THRESHOLD* (mg/cm^2)
Results not corrected for substrate bias	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

*For instruments running software version 1.2C (or equivalent), application of the decision making methodology recommended in this PCS can result in inconclusive results regardless of whether decisions are based on L-shell readings, K-shell readings, or both.

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE

Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Three rounds of tests were conducted on approximately 150 test locations in each round.

One round of testing was conducted March 1995 using a single instrument with an October 1994 source at 10 mCi initial strength while running software version 1.2C in a fixed-time mode with nominal 20-second readings for L-shell results or 120-second readings for K-shell results.

The two other rounds of testing were conducted December 1997 using three different instruments, each running software version 5.1. Two of these instruments had new sources installed November 1997, the other instrument had a new source installed December 1997, all with 10 mCi initial strength. The December 1997 testing was performed in the variable-time paint test mode "K & L + Spectra" using the "Combined Lead Reading" with 2-sigma confidence interval as the stopping point of the measurement.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film). Measurements should be bracketed by successful XRF calibration check readings. XRF calibration checks are performed at the beginning and end of the day's inspections or at extended delays in testing, and (at least) every four hours during inspections or at a frequency recommended by the manufacturer, whichever is more stringent. If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds. Measurements which are not bracketed by successful calibration checks should be considered suspect.

EVALUATING THE QUALITY OF XRF TESTING

Randomly select ten testing combinations for re-testing from each house or from two randomly selected units in multifamily housing. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.)

For instruments running software version 5.1 (or equivalent), conduct the test in the variable-time paint test mode "K & L + Spectra" using the "Combined Lead Reading" with 2-sigma confidence interval as the

stopping point of the measurement. For instruments running software version 1.2C (or equivalent) in the fixed-time mode, use either 20-second readings for the L-shell results or 120-second readings for the K-shell results, as described in the "Classifications of Results" section below.

Conduct XRF re-testing at the ten testing combinations selected for re-testing.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multifamily housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten retest XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

BIAS AND PRECISION:

Bias and precision data were not computed for instruments using software version 5.1 and taking variable mode readings. (See Appendix B, Section B.3.2 of the document titled *Methodology for XRF Performance Characteristic Sheets*, EPA-747-R-45-008, September 1997). During the 1997 testing, there were 12 testing locations with laboratory-measured lead levels equal to or greater than 4.0 mg/cm^2 lead which were tested using two instruments in the variable-time paint test mode. None of these testing locations had XRF readings less than 1.0 mg/cm^2. These data are for illustrative purposes only. Substrate correction is not recommended for this XRF instrument.

The bias and precision data given below are for instruments running software version 1.2C (or equivalent) and were computed without substrate correction using the 20-second L-shell readings from samples with

reported laboratory results less than 4.0 mg/cm^2 lead. Readings reported by the instrument in the "*x*" or ">>*x*" format were not used in the computation. During the 1995 testing there were 15 test locations with a laboratory reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, 12 readings were reported in the ">*x*" or ">>*x*" format, but of the 3 remaining, 1 had an XRF reading less than 1.0 mg/cm^2.

Bias & Precision Results for Niton Model XL-309 Instruments Using Software Version 1.2C (or equivalent)

MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	All	0.0	<0.1
0.5 mg/cm^2	All	0.0	0.2
1.0 mg/cm^2	All	0.0	0.3
2.0 mg/cm^2	All	-0.1	0.5

*Precision at 1 standard deviation

CLASSIFICATION OF RESULTS:

This section describes how to apply information displayed by this instrument to determine the presence or absence of lead in paint using the procedures recommended in Chapter 7 of the HUD Guidelines. These guidelines recommend classifying XRF results as positive, negative, or inconclusive compared to the lead-based paint 1.0 mg/cm^2 standard.

For Niton Model XL-309, 701-A, 702-A, and 703-A instruments running software version 5.1 (or equivalent), XRF results are classified using a threshold. There is no inconclusive classification when using the threshold for instruments running software version 5.1. In single-family and multifamily housing, an XRF result is a single reading taken on each testing combination. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.) For computing the XRF result, use all digits that are displayed by the instrument as the "Combined Lead Reading." Results are classified as positive (i.e., ≥ 1.0 mg/cm^2), if greater than or equal to the threshold, or negative (< 1.0 mg/cm^2) if less than the threshold. Threshold values, provided in the tables above, were determined by comparing XRF test results to the 1.0 mg/cm^2 standard.

For Niton Model XL-309 instruments running software version 1.2C (or equivalent), additional procedures are needed to classify readings because this software displays readings <u>and</u> ancillary information useful for classification purposes. An algorithmic procedure is described that makes use of the XRF reading and other displayed information.

The algorithm for classifying results is first applied to 20-second nominal L-shell readings followed by 120-second nominal K-shell readings to resolve inconclusive results, or to recommend laboratory analysis of paint-chip samples, if necessary. A listing of laboratories recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP) for the confirmational analysis of inconclusive results is available from the National Lead Clearinghouse at 1-800-424-LEAD.

XRF results are classified using threshold values for the Model XL-309 software version 1.2C (or equivalent). Results are classified as positive if greater than or equal to the threshold, and as negative if less than the threshold. There is no inconclusive classification when using threshold values. However, in some cases, inconclusive results still may be obtained regardless of whether decisions are based on L-shell readings, K-shell readings, or both, as described below. Use all digits that are reported by the instrument. Threshold values, which were determined for comparing results to the 1.0 mg/cm^2 standard, are provided in the table above.

This instrument displays its lead-based paint measurements as both L-shell and K-shell readings based on

the corresponding L-shell and K-shell X-ray fluorescence (refer to Chapter 7 of the HUD Guidelines for more details). The L-shell readings (or L-readings) are displayed as a numerical result alone, or as a numerical result preceded by either one greater-than symbol (">") or preceded by two greater-than symbols (">>"). The two greater-than symbols will only be displayed when the detected lead level is greater than 5.0 mg/cm^2. Since the maximum lead level reported by this instrument is 5.0 mg/cm^2, lead levels greater than 5.0 mg/cm^2 are displayed as ">>5.0". Other examples of how L-readings can be displayed (in mg/cm^2 units) are "0.6" and ">0.9". The numerical display alone implies that the instrument measured the lead in the paint at the displayed level using L-shell X-ray fluorescence; 0.6 mg/cm^2 in the example. A number preceded by a single greater-than symbol indicates that the measurable lead is deeply buried in the paint and the detected lead level is greater than the displayed value. In the example, >0.9 indicates that the instrument detected lead deeply buried in paint at a level greater than 0.9 mg/cm^2. K-shell readings (or K-readings) are displayed in one of two ways: 1) as a single K-reading plus and minus a "precision" value or 2) as an upper K-reading and lower K-reading.

The same method is used for testing in single-family and multifamily housing. The HUD Guidelines recommend taking a single XRF reading on a testing combination. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.)

A. Take a single 20-second nominal reading on each testing combination.

B. Classify the L-reading based on the type of information displayed.

<u>If two greater-than symbols are displayed then</u>:

- Classify the >>5.0 L-reading as POSITIVE

<u>If one greater-than symbol is displayed then</u>:

- Classify the L-reading as POSITIVE if the numerical result that follows the greater than symbol is equal to or greater than 1.0.

- Classify the L-reading as INCONCLUSIVE if the numerical result that follows the greater than symbol is less than 1.0.

<u>If the numerical L-reading is displayed alone (that is, without any preceding greater-than symbols) then</u>:

- Classify the L-reading as POSITIVE if the numerical result is equal to or greater than 1.0.

- Classify the L-reading as NEGATIVE if the numerical result is less than 1.0.

C. Resolution of results classified as inconclusive.

All results classified as inconclusive above require further investigation. Take a 120-second nominal XRF reading and use the K-shell reading. In multifamily housing, resolve the inconclusive classification with a single K-shell reading or laboratory analysis as described below.

- Classify the result as POSITIVE if either the K-reading minus the displayed precision value <u>or</u> the lower K-reading is equal to or greater than 1.0.

- Classify the result as NEGATIVE if either the K-reading plus the displayed precision value <u>or</u> the upper K-reading is less than 1.0.

- Classify the result as INCONCLUSIVE if neither of the above decision rules using the K-reading provided a classification which can occur when the upper K-reading is equal to or greater than 1.0 or the lower K-reading is less than 1.0.

- To resolve a remaining INCONCLUSIVE classification, remove a paint-chip sample as described in Chapter 7 of the HUD Guidelines and have it analyzed by a qualified laboratory as described in Chapter 7.

TESTING TIMES (FOR SOFTWARE VERSION 5.1)

For the variable-time paint test mode "K & L + Spectra," the instrument continues measuring until a positive or negative result is indicated relative to an action level (1.0 mg/cm^2 for archive testing) and the current precision, or until the reading is terminated by moving the instrument away from the testing surface. None of the variable mode readings were terminated because of the two-minute limit used for archive testing. The following table provides testing time information for this testing mode. Source strength and type of substrate will affect actual testing times.

Testing Times for Instruments Running Software Version 5.1						
Variable mode testing times (seconds)						
	All data			Median for laboratory—measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 <= Pb < 1.0	1.0 <= Pb
Wood Drywall	6	8	15	6	20	5
Metal	6	13	20	13	20	6
Brick Concrete Plaster	6	11	20	9	18	6

DOCUMENTATION:

This PCS was developed in accordance with the methodology in the EPA report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008, September 1997). This report provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) under a grant from the U. S. Environmental Protection Agency and a separate contract between MRI and the XRF manufacturer. The U.S. Department of Housing and Urban Development (HUD) has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. While MRI reserves the right to revise this XRF Performance Characteristic Sheet at any time, HUD's statement of acceptance would not apply to a revision until HUD has reviewed the revision and made a determination of its acceptability.

NITON Connects

LEADER IN PORTABLE XRF TECHNOLOGY • CASE STUDY • JANUARY 2000

Soil Abatement with NITON XRF

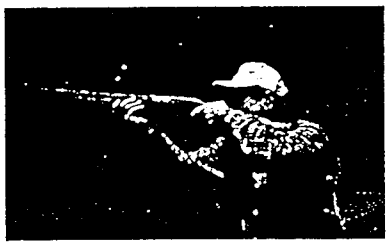
Saving Money in Your Remediation Efforts Using NITON's XRF Analyzers

By using NITON's hand-held XRF, Fuss & O'Neil were able to save their client considerable money and time over conventional phased investigations and remediations. The US EPA has incorporated Method 6200 into SW846 as a standard method for field portable XRF analysis.

A rifle and handgun firing range may pose a significant lead contamination problem to surrounding communities. This problem occurred in a western town in Connecticut that contained an abandoned rifle and hand gun firing range. The site had approximately 270 tons of lead contaminated soil. The property had a potential buyer if remediation could occur quickly. In order to minimize the excavation and provide rapid turnaround of sample results, the project manager needed a device that could rapidly identify "hot spots" of lead on-site. The remedial plan, issued by the state of Connecticut, required that lead be removed to below 500 ppm in soil and have a mobility criterion less than 0.015 ppm. The sale of this property was contingent upon the expedited removal or abatement of the lead contamination.

Quick check for soil contamination at a former firing range using NITON's XRF.

The project manager, Fuss & O'Neil, selected an x-ray fluorescence (XRF) manufactured by



NITON Corporation due to its accuracy, ease of use, and portability. To initiate this removal effort Fuss & O'Neil re-evaluated 21 of the soil samples using the NITON XRF. These samples were previously analyzed by atomic absorption spectrometry (AAS) in a conventional field based laboratory. The correlation between the XRF and AA results was excellent giving the contractor and regulator the confidence in the data quality of the XRF measurements. Therefore, NITON's XRF was used as the primary decision-making tool to evaluate the site for removal and provide "real time" measurements for remediation activities.

Based on the initial confirmation the use of NITON's XRF was accepted and it was determined that one person could perform up to 100 analyses per day on unprepared samples. The remedial effort was conducted in only *4 days* using NITON's XRF. The data collected agreed with confirmation samples which was sufficient to meet Connecticut's data quality objectives. This effort provided outstanding correlation with AAS methods conducted in the fixed base laboratory. The majority of the total samples of 200 were analyzed in a two day period. The cost equated to approximately $15 per sample which included an operator, as compared to double that if conventional analysis had been used. "Per sample costs would have dropped significantly had we used (this equipment) for a longer period" stated Fuss & O'Neil. The length of use is directly proportional to the cost per sample, with higher volumes of sample decreasing per sample cost.

By using NITON's hand-held XRF, Fuss & O'Neil were able to save their client considerable money and time over conventional phased investigations and remediations. Cost savings were experienced in sample evaluations and reduction in contractor mobilization charges. The rapid turnaround also eliminated the potential loss of the property sale by their client. ❑

NITON's XRF analyzer measures up to 25 different metals in soil, dust wipes, air filters, lead in paint, cement and can identify alloys. Additionally, the NITON XRF can analyze all 8 RCRA metals allowing its users greater flexibility and improved efficiency for all environmental and worker exposure environments.

NITON Corporation
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For more information or a demonstration please contact: NITON at 800-875-1578

NITON Connects.

LEADER IN PORTABLE XRF TECHNOLOGY • CASE STUDY • JANUARY 2000

Detecting Arsenic in Soil Using Field Portable X-Ray Fluorescence (XRF)

Rapid Assessment of Arsenic

Rapid, accurate on site determination of arsenic and heavy metal levels in soil is a powerful tool in efforts to rebuild and revitalize abandoned and under-utilized industrial properties. The EPA is actively spearheading initiatives to encourage assessment, clean-up and re-use of these industrial properties. In the case of heavy metals (often the eight RCRA metals Pb, As, Cd, Cr, Hg, Ag, Ba, Se), the technology of choice is field portable x-ray fluorescence (XRF) analysis. NITON's field portable XRF offers a number of advantages for expediting site characterization and cleanup.

Current models of the NITON 700Series offer limits of detection of 15 ppm for As in soil, for testing times between 30–60 seconds.

On-Site Investigations

Rapid, inexpensive site characterization methods for identifying priority pollutants in soil can be achieved. Field based XRF can be used *in situ* following EPA Method 6200. A large number of *in situ* tests can be performed quickly, allowing for extensive geographic profiling which details metal contaminants and quantitates their levels. XRF is also non-destructive to the samples, allowing a sub-set to be sent for confirmatory laboratory analysis.

The NITON XRF used at a remediation site.

Remote Detection of Arsenic in Soil

Practical Applications of the Field XRF Under Stringent Field Requirements

A large power company, Ontario Hydro, has been recently required to assess arsenic levels in soil around several of their facilities located throughout Canada. Because many of their facilities are in remote locations, laboratory turnaround times often take weeks. They plan to use NITON's portable XRF, with its innovative features, that provide rapid, quantitative results on-site in "real time."

Ontario Hydro requires a very accurate analysis of a limited number of samples at each site. For this reason, the appropriate testing method requires that samples be carefully prepared by sieving out the larger particles such as small rocks and organic matter, then grinding the remaining soil to an average particle size of 125 µm, producing a fine homogeneous powder. The powder will then be placed in special XRF sample cups prior to taking the reading. For many large site characterizations, the preferred method is to measure samples, *in situ*, or directly on the ground. This method is less accurate, but allows a very large area to be assessed and "screened"

The NITON XRF used in situ.

for contamination. In the case of Ontario Hydro, however, accuracy is critical and therefore, correct sample preparation is essential.

Initial results for arsenic levels found using this method are shown in Figure 1. The correlation is outstanding, with an r^2 of 0.993. The limit of detection is 15 ppm after only 30 seconds of testing time, although longer testing times (2 minutes) are generally employed to obtain more precise results. Since most clearance levels for arsenic in the United States are less than or equal to 30 ppm, the NITON XRF is a reliable assessment tool to determine whether levels are below standard clean-up criteria.

Site Characterization Down Under

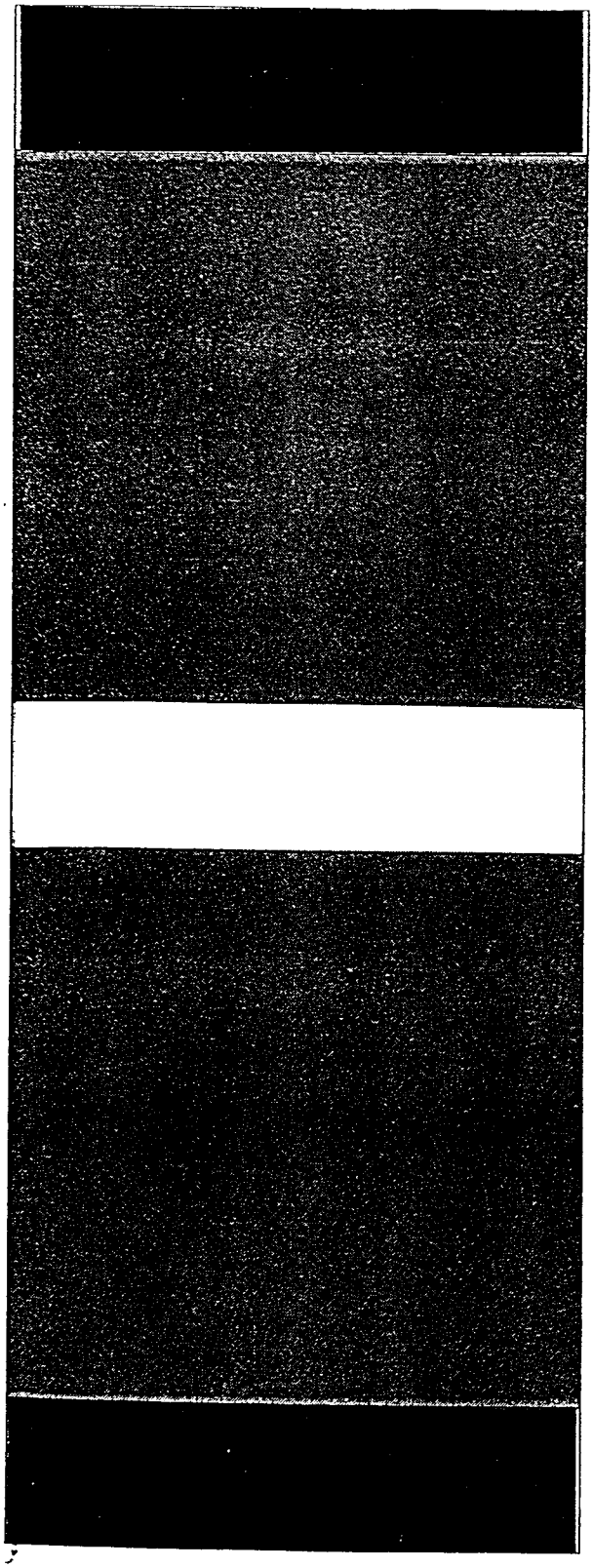
In an old industrial site in South-eastern Australia[1], a more traditional XRF testing protocol was required to assist with site characterization and remediation. The site is a large property with suspected wide-spread arsenic contamination. Project goals

Continued on page 2

Lead Paint Standards

NITON XL

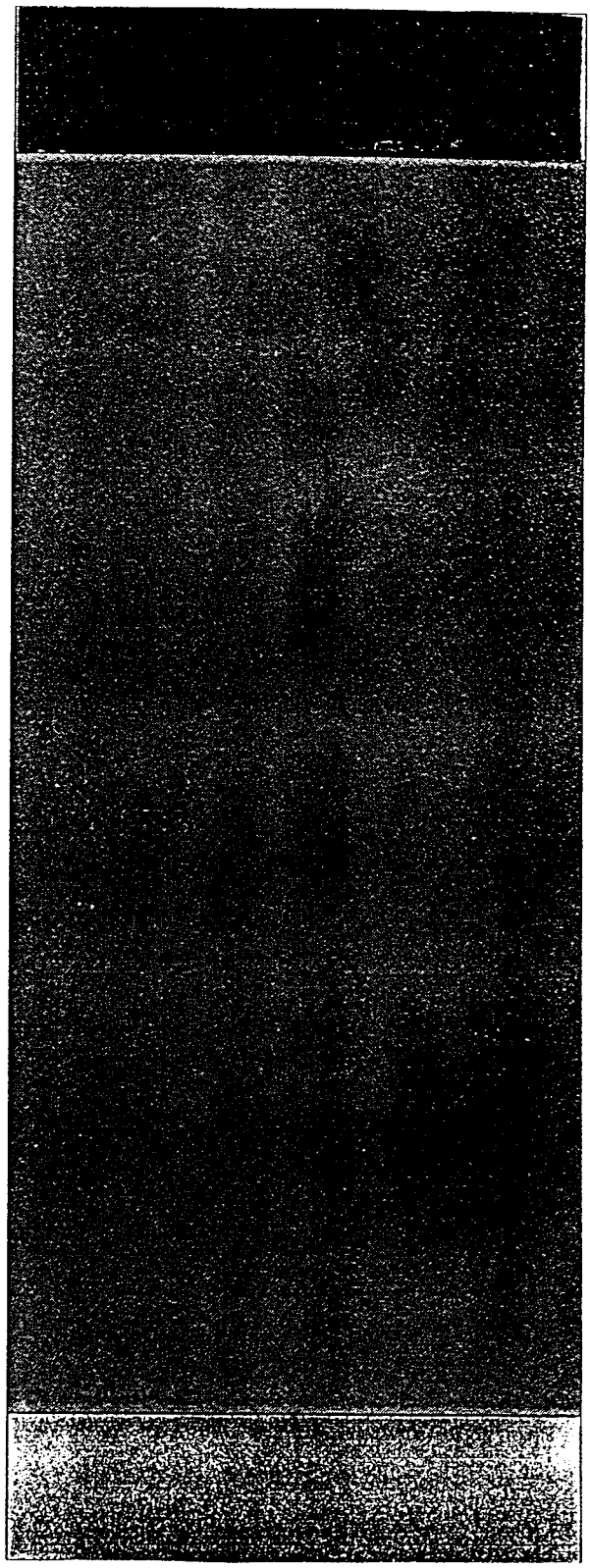
Surface Lead
mg/cm²



1.0 ± 0.1

0.00

0.3 ± 0.1



1.6 ± 0.2

3.5 ± 0.3

Niton Corporation
Bedford, MA 01730

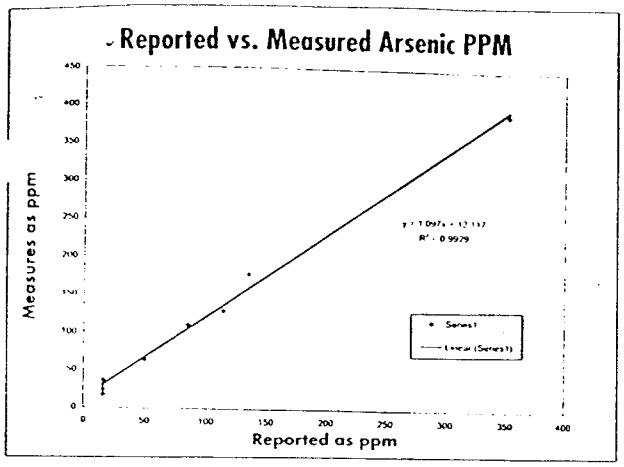


Figure 1. Comparison of reported arsenic ppm vs. measured arsenic ppm for Canadian Hydro.

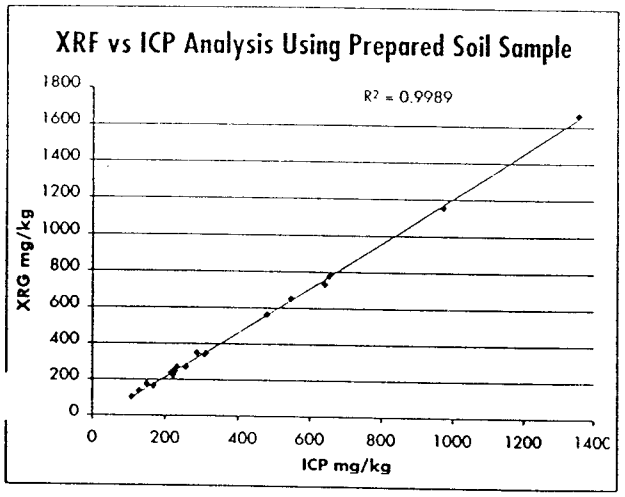


Figure 2. Comparison of NITON XRF results to laboratory results for arsenic in soil.

require a rapid assessment of the site to determine "hot spots" of arsenic, and expedite remediation. Remoteness of the site also makes extensive laboratory analysis both time consuming and expensive.

The NITON XRF is the perfect analytical tool to meet these demands. The XRF could be used for *in situ* testing, due to requirements of rapid site profiling and the need to quickly locate regions of high contamination. Operators will perform thousands of tests directly on the ground to thoroughly profile the arsenic contamination pattern. Several hot-spots will be mapped out, so remediation can begin immediately.

A limited number of samples were collected, homogenized and sieved to particle sizes < 250 μ, and tested both by the NITON XRF and then sent for laboratory ICP analysis. Past work (shown in Figure 2) has demonstrated an excellent correlation between the field and laboratory results ($r^2 = 0.9989$).

The XRF is also a valuable tool during remediation efforts. For this site, remediation mainly consists of soil removal. A "dig and test" process will be employed to ensure that only contaminated soil is treated or removed, thus generating additional savings. Layers of soil will be removed and freshly exposed soil tested again with the NITON XRF, providing information on the depth of contamination. This allows the operator to stop digging when results are below action levels.

The use of portable XRF analysis for this site will assist in expediting site clearance and keeping analytical costs as low as possible. Site managers are able to eliminate the guesswork in determining if concentrations are below action levels. Samples pulled for final clearance are prepared and analyzed on site. If readings are near or exceed clearance levels remediation efforts will continued until on-site analysis indicates contaminant levels have met clearance criteria. This strategy reduces analytical costs, since only one set of clearance samples are sent for laboratory confirmation. Moreover, the likelihood of a failed clearance is virtually eliminated, thus reducing costly remobilizations of remediation crews for continued work if laboratory analysis indicates arsenic levels exceed action levels.

Summary

The two applications, presented above, for arsenic in soil testing using a NITON field portable XRF illustrate the versatility of this instrument. In one application, the customer requires that a limited number of samples be tested with a high degree of accuracy. For this case, samples are finely ground and placed in sample cups for testing. Results are obtained with testing times of 20 to 30 seconds and a detection limit of 15 ppm. In the second application the customer requires that a very large number of samples be rapidly tested to profile the site and find "hot spots." In this case, a lower level of accuracy is acceptable and the customer chooses to perform rapid, in-situ tests followed by limited laboratory confirmation.

References

1 M. Ridings, A.J Shorter, CSIRO Tropical Agriculture, 306 Carmody Road, St. Lucia, Q4067, AUSTRALIA and J. Bawden-Smith, JBS Environmental Services & Technologies Pty Ltd, PO Box 1480 Bondi Junction, NSW 1355, Australia.

The NITON hand-held XRF.

NITON
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APPENDIX A
LEAD-BASED PAINT EVALUATION TABLES

TABLE A-1
LBP TOTAL REMOVAL COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
440	1. Porch Corner Column	15	SF	Remove	$12.00	$180.00
440	2. Room No. 1 Walls	460	SF	Remove	$12.00	$5,520.00
440	3. Room No. 1 & 2 Porch Walls	330	SF	Remove	$12.00	$3,960.00
440	4. Room No. 2 Walls	790	SF	Remove	$12.00	$9,480.00
440	5. Room No. 3 Walls	500	SF	Remove	$12.00	$6,000.00
440	6. Room No. 4 Porch Walls	100	SF	Remove	$12.00	$1,200.00
440	7. Room No. 4 Porch Door	1	EA	Remove	$175.00	$175.00
440	8. Room No. 4 Bathroom Ceramic Tiles	100	SF	Remove	$12.00	$1,200.00
440	9. Exterior Walls	5000	SF	Remove	$12.00	$60,000.00
444	1. Garage Door	64	SF	Remove	$12.00	$768.00
444	2. Laundry Room Walls	300	SF	Remove	$12.00	$3,600.00
444	3. Kitchen Walls	160	SF	Remove	$12.00	$1,920.00
444	4. 2nd Floor Foyer Closet Door & Jambs	4	EA	Remove	$260.00	$1,040.00
444	5. 2nd Floor Foyer Closet Shelves	6	EA	Remove	$55.00	$330.00
444	6. Room No. 1 Door & Jambs	4	EA	Remove	$260.00	$1,040.00
444	6. Room No. 1 Chair Rail	84	LF	Remove	$10.00	$840.00
444	7. Room No. 1 Closet Door & Jambs	16	EA	Remove	$260.00	$4,160.00
444	8. Room No. 1 Closet Shelves	10	EA	Remove	$55.00	$550.00
444	9. Room No. 1 Balcony Door Jambs	6	EA	Remove	$85.00	$510.00
444	10. Exterior Balcony Walls	300	SF	Remove	$12.00	$3,600.00
444	11. Room No. 2 Door & Jambs	7	EA	Remove	$260.00	$1,820.00
444	12. Room No. 2 Chair Rail	40	LF	Remove	$10.00	$400.00
444	13. Room No. 2 Closet Door Jambs	3	EA	Remove	$85.00	$255.00
444	14. Room No. 2 Closet Shelves	5	EA	Remove	$55.00	$275.00
444	15. Bathroom Door & Jambs	4	EA	Remove	$260.00	$1,040.00
444	16. Room No. 3 Door & Jambs	10	EA	Remove	$260.00	$2,600.00
444	17. Room No. 3 Chair Rail	50	LF	Remove	$10.00	$500.00
444	18. Room No. 3 Closet Shelves & Base	5	EA	Remove	$55.00	$275.00
444	19. Exterior Walls	4000	SF	Remove	$12.00	$48,000.00
445A	1. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
445B	2. Porch Walls	300	SF	Remove	$12.00	$3,600.00
445B	3. Porch Storage Room Walls	150	SF	Remove	$12.00	$1,800.00
445B	4. Porch Ceramic Baseboard	50	LF	Remove	$10.00	$500.00
445B	5. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
446A	1. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
446A	2. Exterior Closet Walls	50	SF	Remove	$12.00	$600.00
446B	3. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
447A	1. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
447B	2. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00

TABLE A-1
LBP TOTAL REMOVAL COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
448A	1. Kitchen Den Baseboard	22	LF	Remove	$10.00	$220.00
448A	2. Living Room Chair Rail	96	LF	Remove	$10.00	$960.00
448A	3. Living Room Baseboard	80	LF	Remove	$10.00	$800.00
448A	4. Hallway Baseboard	30	LF	Remove	$10.00	$300.00
448A	5. Bathroom Door & Jambs	2	EA	Remove	$260.00	$520.00
448A	6. Room No. 2 Door & Jambs	4	EA	Remove	$260.00	$1,040.00
448A	7. Room No. 2 Window Sills	6	LF	Remove	$55.00	$330.00
448A	8. Room No. 2 Chair Rail	48	LF	Remove	$10.00	$480.00
448A	9. Room No. 2 Closet Door & Jambs	2	EA	Remove	$260.00	$520.00
448A	10. Den Jambs	2	EA	Remove	$85.00	$170.00
448A	11. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
448A	12. Exterior Steps	50	SF	Remove	$12.00	$600.00
448A	13. Porch/Laundry Walls	315	SF	Remove	$12.00	$3,780.00
448A	14. Porch Storage Room Door & Jambs	2	EA	Remove	$260.00	$520.00
448A	15. Porch Walls	315	SF	Remove	$12.00	$3,780.00
448A	16. Kitchen Door Jambs	4	EA	Remove	$85.00	$340.00
448A	17. Kitchen Chair Rail	50	LF	Remove	$10.00	$500.00
448A	18. Kitchen Baseboard	40	LF	Remove	$10.00	$400.00
448B	19. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
TOTAL						**$365,398.00**

TABLE A-2
LBP TOTAL EXTERIOR
REMOVAL COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUAN, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
440	1. Exterior Walls	5000	SF	Remove	$12.00	$60,000.00
444	2. Exterior Walls	4000	SF	Remove	$12.00	$48,000.00
445A	3. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
445B	4. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
446A	5. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
446B	7. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
447A	8. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
447B	9. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
448A	10. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
448A	11. Exterior Steps	50	SF	Remove	$12.00	$600.00
448B	12. Exterior Walls	1900	SF	Remove	$12.00	$22,800.00
TOTAL						**$291,000.00**

TABLE A-3
LBP OPERATION AND MAINTENANCE COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUA, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
440	1. Kitchen Ceramic Tiles	200	SF	O & M	$1.00	$200.00
440	2. Kitchen Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
440	3. Kitchen Cermic Walls	410	SF	O & M	$1.00	$410.00
440	4. Kitchen Closet Walls	90	SF	O & M	$1.00	$90.00
440	5. Kitchen Closet Shelves	5	EA	O & M	$1.00	$5.00
440	6. Laundry Walls	90	SF	O & M	$1.00	$90.00
440	7. Den Bathrooms Walls	100	SF	O & M	$1.00	$100.00
440	12. Hallway Walls	350	SF	O & M	$1.00	$350.00
440	13. Bathroom for Rooms 1, 2, & 3 Ceramic Tiles	100	SF	O & M	$1.00	$100.00
440	14. Bathroom for Rooms 1, 2, & 3 Tub	1	EA	O & M	$11.00	$11.00
440	16. Second Floor Foyer Walls	20	SF	O & M	$1.00	$20.00
440	20. Room No. 4 Bathroom Tub	1	EA	O & M	$1.00	$1.00
440	21. Room no. 4 Closet Shelves	5	EA	O & M	$1.00	$5.00
444	1. Entrance Columns	30	LF	O & M	$1.00	$30.00
444	3. Garage Shelves	45	SF	O & M	$1.00	$45.00
444	5. Laundry Room Shelves	2	EA	O & M	$1.00	$2.00
444	6. Corner Den Bathroom Walls/Baseboard	116	SF	O & M	$1.00	$116.00
444	7. Corner Den Bathroom Door & Jambs	3	EA	O & M	$1.00	$3.00
444	8. Living Room Door Jambs	3	EA	O & M	$1.00	$3.00
444	9. Living Room Closet Door	1	EA	O & M	$1.00	$1.00
444	11. Kitchen Ceramic Tiles	200	SF	O & M	$1.00	$200.00
444	12. Kitchen Closet Shelve Bases	91	SF	O & M	$1.00	$91.00
444	26. Bathroom Tub	1	EA	O & M	$1.00	$1.00
445A	1. Laundry Room Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
445A	2. Laundry Room Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
445A	3. Porch Storage Ceramic Floor Tiles	50	SF	O & M	$1.00	$50.00
445A	4. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
445A	5. Living Room Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445A	6. Den Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
445A	7. Den Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445A	8. Hallway Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
445A	9. Room No. 1 Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
445A	10. Room No. 1 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445A	11. Bathroom Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
445A	12. Bathroom Ceramic Wall Tiles	200	SF	O & M	$1.00	$200.00
445A	13. Room No. 2 Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
445A	14. Room No. 2 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445A	16. Exterior Closet Walls	50	SF	O & M	$1.00	$50.00
445A	17. Entrance Steps	50	SF	O & M	$1.00	$50.00
445A	18. Exterior Storage Room Wall	50	SF	O & M	$1.00	$50.00
445B	1. Living Room Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00

TABLE A-3
LBP OPERATION AND MAINTENANCE COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUA, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
445B	2. Den Wall	100	SF	O & M	$1.00	$100.00
445B	3. Den Ceramic Floor Tiles	150	SF	O & M	$1.00	$150.00
445B	4. Room No. 1 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445B	5. Bathroom Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
445B	6. Bathroom Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
445B	7. Bathroom Tub	1	EA	O & M	$1.00	$1.00
445B	8. Room No. 2 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
445B	9. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
446A	1. Laundry Room Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
446A	2. Laundry Room Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
446A	3. Balcony Storage Room Ceramic Floor Tiles	50	SF	O & M	$1.00	$50.00
446A	4. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
446A	5. Living Room Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
446A	6. Hallway Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
446A	7. Room No. 1 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
446A	8. Room No. 1 Ceramic Baseboard	80	LF	O & M	$1.00	$80.00
446A	9. Room No. 1 Closet Ceramic Floor Tile	20	SF	O & M	$1.00	$20.00
446A	10. Bathroom Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
446A	11. Bathroom Ceramic Floor Tiles	80	SF	O & M	$1.00	$80.00
446A	12. Bathroom Tub	1	EA	O & M	$1.00	$1.00
446A	13. Room No. 2 Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
446A	14. Room No. 2 Ceramic Floor Tile	200	SF	O & M	$1.00	$200.00
446A	15. Den Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
446A	16. Den Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
446B	1. Stairway Foyer Ceramic Floor Tile	50	SF	O & M	$1.00	$50.00
446B	2. Stairway Foyer Ceramic Baseboard	20	LF	O & M	$1.00	$20.00
446B	3. Living Room Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
446B	4. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
446B	5. Kitchen Balcony Ceramic Baseboard	50	LF	O & M	$1.00	$50.00
446B	6. Kitchen Balcony Ceramic Floor Tile	50	SF	O & M	$1.00	$50.00
446B	7. Kitchen Balcony Storage Room Ceramic Baseboarc	20	LF	O & M	$1.00	$20.00
446B	8. Kitchen Balcony Storage Room Ceramic Floor Tile	50	SF	O & M	$1.00	$50.00
446B	9. Hallway Ceramic Floor Tile	100	SF	O & M	$1.00	$100.00
446B	10. Room No. 1 Ceramic Baseboard	80	LF	O & M	$1.00	$80.00
446B	11. Room No. 1 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
446B	12. Bathroom Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
446B	13. Bathroom Ceramic Floor Tiles	80	SF	O & M	$1.00	$80.00
446B	14. Room No. 2 Ceramic Baseboard	80	LF	O & M	$1.00	$80.00
446B	15. Room No. 2 Ceramic Floor Tile	200	SF	O & M	$1.00	$200.00
446B	16. Den Ceramic Baseboard	40	LF	O & M	$1.00	$40.00
446B	17. Den Ceramic Floor Tiles	150	SF	O & M	$1.00	$150.00

TABLE A-3
LBP OPERATION AND MAINTENANCE COSTS

STOP 7 1/2 NAVAL RESERVATION
SAN JUA, PUERTO RICO

Building	Materials	Quantity	Unit	Response	Response Unit Cost	Response Cost
447A	1. Den/Family Room Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
447A	2. Den/Family Room Ceramic Baseboard	80	LF	O & M	$1.00	$80.00
447A	3. Living Room Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
447A	4. Kitchen Ceramic Wall Tiles	200	SF	O & M	$1.00	$200.00
447A	5. Hallway Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
447A	6. Room No. 1 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
447A	7. Bathroom Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
447A	8. Bathroom Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
447A	9. Bathroom Tub	1	EA	O & M	$1.00	$1.00
447A	10. Room No. 2 Ceramic Floor Tiles	200	SF	O & M	$1.00	$200.00
447A	11. Laundry Room Entrance Wall	50	SF	O & M	$1.00	$50.00
447A	12. Laundry Room Ceramic Floor Tiles	50	SF	O & M	$1.00	$50.00
447B	1. Stairway Walls	300	SF	O & M	$1.00	$300.00
447B	2. Stairway Second Floor Foyer Ceramic Floor Tiles	50	SF	O & M	$1.00	$50.00
447B	3. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
447B	4. Laundry Bathroom Ceramic Floor Tiles	50	SF	O & M	$1.00	$50.00
447B	5. Bathroom Ceramic Wall Tiles	200	SF	O & M	$1.00	$200.00
447B	6. Bathroom Ceramic Floor Tiles	100	SF	O & M	$1.00	$100.00
447B	7. Room No. 1 Ceramic Floor Tiles	150	SF	O & M	$1.00	$150.00
447B	8. Room No. 2 Ceramic Floor Tiles	150	SF	O & M	$1.00	$150.00
448A	5. Hallway Chair Rail	18	LF	O & M	$1.00	$18.00
448A	6. Room No. 1 Chair Rail	48	LF	O & M	$1.00	$48.00
448A	7. Room No. 1 Closet Walls	25	SF	O & M	$1.00	$25.00
448A	8. Room No. 1 Doors	1	EA	O & M	$1.00	$1.00
448B	1. Stairway Walls	240	SF	O & M	$1.00	$240.00
448B	2. Living Room Baseboard	80	SF	O & M	$1.00	$80.00
448B	3. Den Wall	68	SF	O & M	$1.00	$68.00
448B	4. Den Door Jambs	18	EA	O & M	$1.00	$18.00
448B	5. Room No 1 Closet Door & jambs	4	EA	O & M	$1.00	$4.00
448B	6. Bathroom Door & Jambs	4	EA	O & M	$1.00	$4.00
448B	7. Room No. 2 Baseboard	50	LF	O & M	$1.00	$50.00
448B	8. Room No. 2 Closet Door & Jambs	4	EA	O & M	$1.00	$4.00
448B	9. Air Conditioner Mechanical Room Ceramic Wall Tile	60	SF	O & M	$1.00	$60.00
448B	10. Kitchen Ceramic Wall Tiles	100	SF	O & M	$1.00	$100.00
448B	11. Kitchen Closet Door & jambs	3	EA	O & M	$1.00	$3.00
448B	12. Laundry Walls	3	EA	O & M	$1.00	$3.00
448B	13. Shower Door & Jambs	2	EA	O & M	$1.00	$2.00
448B	14. Living Room Walls	1	SF	O & M	$1.00	$1.00
TOTAL						**$11,036.00**

APPENDIX B
BAKER ENVIRONMENTAL, INC.
INSPECTOR CERTIFICATIONS

Professional Training Associates, Inc.

ASBESTOS MANAGEMENT PLANNER

Refresher Training Course

Ronald Krivan

has successfully completed the Asbestos Management Planner Refresher Course and passed the course examination for purposes of accreditation under section 206 of Title II of the Toxic Substance Control Act (TSCA). Conducted by Professional Training Associates, Inc., 46 South Linden Street, Suite C, Duquesne, PA 15110, (412) 460-0266.

KRIVANR
MPR120601DUQUESN

Location:	Duquesne, PA	Examination:	December 6, 2001
Course date:	December 6, 2001	Expiration:	December 6, 2002
Course Director:	Danny P. Hunt	Certificate Number:	PTA 01 - 24 - 8104

Professional Training Associates, Inc.

ASBESTOS BUILDING INSPECTOR

Refresher Training Course

Ronald Krivan

has successfully completed the Asbestos Building Inspector Refresher Course and passed the course examination for purposes of accreditation under Section 206 of Title II of the Toxic Substance Control Act (TSCA). Conducted by Professional Training Associates, Inc., 46 South Linden Street, Suite C, Duquesne, PA 15110, (412) 460-0266.

KRIVANR
BIR120601DUQUESN

Location:	Duquesne, PA	Examination:	December 6, 2001
Course date:	December 6, 2001	Expiration:	December 6, 2002
Course Director:	Danny P. Hunt	Certificate Number:	PTA 01 - 23 - 8092

APPENDIX C
ASBESTOS ANALYTICAL RESULTS

LabCorp
Analytics Division

Laboratory Corporation of America® Holdings
PO Box 25249
Richmond, Virginia 23260

Telephone: 800-888-8061

Group No. E089064
Account No. 37819180
Report Date: 03/30/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/29/00
Sample Type: 24 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/28/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-445B-001A	-001	ND,<1	100	BEIGE PLIABLE/FIBROUS	
				Cellulose	50 %
				Non-fibrous	50 %
0300-445B-001B	-002	ND,<1	100	BEIGE PLIABLE/FIBROUS	
				Cellulose	50 %
				Non-fibrous	50 %
0300-445B-001C	-003	ND,<1	100	BLACK RUBBERY	
				Non-fibrous	100 %
0300-445B-002A	-004	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-445B-003A	-005	ND,<1	100	GRAY/WHITE GRANULAR	
				Non-fibrous	100 %
0300-445B-004A	-006	ND,<1	100	WHITE BRITTLE	
				Cellulose	TR,<1 %

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Group No. E089064
Account No. 37819180
Report Date: 03/30/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/29/00
Sample Type: 24 - Bulk Sample(s)
Project: 6247Q-401-0000-06100

Date Sampled: 03/28/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0300-445B-004B	-007	ND,<1	100	WHITE BRITTLE	
				Non-fibrous	100 %
0300-445B-004C	-008	ND,<1	100	WHITE BRITTLE	
				Non-fibrous	100 %
0300-445B-004D	-009	ND,<1	100	GRAY/WHITE BRITTLE	
				Non-fibrous	100 %
0300-447B-001A	-010	ND,<1	100	WHITE SMOOTH FLOOR TILE W/O MASTIC	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-447B-001B	-011	ND,<1	100	WHITE/GRAY SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-447B-001C	-012	ND,<1	100	WHITE SMOOTH FLOOR TILE W/O MASTIC	

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KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/29/00
Sample Type: 24 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/28/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0300-447B-002A	-013	ND,<1	100	GRAY PLIABLE	
				Other Fibers: Synthetic	
				Other Fibers	TR,<1 %
				Non-fibrous	100 %
0300-447B-002B	-014	ND,<1	100	RED/GRAY PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-447B-002C	-015	ND,<1	100	RED/GRAY PLIABLE	
				Non-fibrous	100 %
0300-448B-001A	-016	ND,<1	100	GRAY-WHITE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-448B-001B	-017	ND,<1	100	GRAY-WHITE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %

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KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/29/00
Sample Type: 24 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/28/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-001C	-018	ND,<1	100	BEIGE PLIABLE/FIBROUS	
				Cellulose	50 %
				Non-fibrous	50 %
0300-448B-002A	-019	ND,<1	100	BEIGE BRITTLE	
				Non-fibrous	100 %
0300-448B-002B	-020	ND,<1	100	GRAY/BEIGE BRITTLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-448B-002C	-021	ND,<1	100	BEIGE PLIABLE	
				Non-fibrous	100 %
0300-447B-003A	-022	ND,<1	100	BEIGE/BLUE GRANULAR	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-447B-003B	-023	ND,<1	100	WHITE PLIABLE	

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KEN MARTIN
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SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/29/00
Date Sampled: 03/28/00
Sample Type: 24 - Bulk Sample(s)
Project: 62470-401-0000-06100
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0300-447B-003C	-024	ND,<1	100	WHITE PLIABLE	
				Non-fibrous	100 %

Lynne Overman, Analyst

LabCorp
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Group No. E091023
Account No. 37819180
Report Date: 04/04/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/31/00
Sample Type: 23 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/29/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-004A	-001	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-004B	-002	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-004C	-003	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-005A	-004	ND,<1	100	BEIGE PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-448B-005B	-005	ND,<1	100	BEIGE PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-448B-005C	-006	ND,<1	100	BEIGE PLIABLE	
				Cellulose	TR,<1 %

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KEN MARTIN
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SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/31/00
Sample Type: 23 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/29/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0300-448B-006A	-007	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-006B	-008	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-006C	-009	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-007A	-010	ND,<1	100	BEIGE BRITTLE	
				Non-fibrous	100 %
0300-448B-007B	-011	ND,<1	100	BEIGE BRITTLE	
				Non-fibrous	100 %
0300-448B-008A	-012	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %

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Final Report

Date Received: 03/31/00
Date Sampled: 03/29/00
Sample Type: 23 - Bulk Sample(s)
Project: 62470-401-0000-06100
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-008B	-013	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-008C	-014	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-448B-009A	-015	ND,<1	100	BEIGE GRANULAR	
				Non-fibrous	100 %
0300-448B-009B	-016	ND,<1	100	BEIGE GRANULAR	
				Non-fibrous	100 %
0300-448B-009C	-017	ND,<1	100	BEIGE GRANULAR	
				Non-fibrous	100 %
0300-448B-010A	-018	ND,<1	100	BEIGE/WHITE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %

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SAN JUAN
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CORAOPOLIS, PA 15108

Final Report

Date Received: 03/31/00
Date Sampled: 03/29/00
Sample Type: 23 - Bulk Sample(s)
Project: 62470-401-0000-06100
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	30 %
0300-448B-010B	-019	ND,<1	100	BEIGE/WHITE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0300-448B-010C	-020	ND,<1	100	BEIGE/WHITE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0300-448B-011A	-021	ND,<1	100	BEIGE GRANULAR	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-448B-011B	-022	ND,<1	100	BEIGE PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

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Telephone: 800-888-8061

Group No. E091023
Account No. 37819180
Report Date: 04/04/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/31/00
Date Sampled: 03/29/00
Sample Type: 23 - Bulk Sample(s)
Project: 62470-401-0000-06100
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-011C	-023	ND,<1	100	BEIGE PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

Lynne Overman, Analyst

LabCorp
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Group No. E091023
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Report Date: 04/04/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Methods, Notes and Abbreviations

Detection Limit: 1 percent by weight based on Calibrated Area Visual Estimates.

Abbreviations: ND = Not Detected; TR = Trace.

Analytical Method: EPA-600/M4-82-020

NVLAP Accreditation Code: 101004-0

PLM results may be biased on the high side, therefore you may opt to have samples with less than 10 percent asbestos re-analyzed by the reportedly more accurate point count procedure in the EPA Interim Method for the Identification of Asbestos in Bulk Materials.

PLM analysis of vinyl floor tile samples may yield false negative results as the size and thickness of asbestos fibers in vinyl floor may be less than the limit of resolution for a polarized-light microscope. Confirmation of PLM negative vinyl floor tiles by transmission electron microscopy (TEM) may be necessary.

Results reflect the samples that were tested and the report analysis must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

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*** End of Report ***

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Laboratory Corporation of America® Holdings
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Telephone: 800-888-8061

Group No. E090033
Account No. 37819180
Report Date: 04/04/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/30/00
Sample Type: 30 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/29/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-030-001A	-001	ND,<1	100	BLACK PLIABLE FOAM W/BLACK STICKY	
				Non-fibrous	100 %
0300-030-002A	-002	ND,<1	100	BLACK SOFT STICKY	
				Cellulose	30 %
				Non-fibrous	70 %
0300-030-002B	-003	ND,<1	100	BLACK SOFT STICKY	
				Cellulose	30 %
				Non-fibrous	70 %
0300-030-002C	-004	ND,<1	100	BLACK SOFT STICKY	
				Cellulose	30 %
				Non-fibrous	70 %
0300-030-003A	-005	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0300-030-004A	-006	ND,<1	100	WHITE FIBROUS CEILING TILE	

LabCorp
Analytics Division
Laboratory Corporation of America® Holdings
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Richmond, Virginia 23260
Telephone: 800-888-8061

Group No. E090033
Account No. 37819180
Report Date: 04/04/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/30/00
Sample Type: 30 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/29/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Fibrous Glass	20 %
				Cellulose	50 %
				Non-fibrous	30 %
0300-030-004B	-007	ND,<1	100	WHITE FIBROUS CEILING TILE	
				Fibrous Glass	20 %
				Cellulose	50 %
				Non-fibrous	30 %
0300-030-004C	-008	ND,<1	100	WHITE FIBROUS CEILING TILE	
				Fibrous Glass	20 %
				Cellulose	50 %
				Non-fibrous	30 %
0300-030-005A	-009	ND,<1	100	WHITE PLIABLE	
				Fibrous Glass	TR,<1 %
				Non-fibrous	100 %
0300-030-005B	-010	ND,<1	100	WHITE PLIABLE	
				Fibrous Glass	TR,<1 %
				Non-fibrous	100 %

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KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 03/30/00
Sample Type: 30 - Bulk Sample(s)
Project: 62470-401-0000-06100

Date Sampled: 03/29/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-030-005C	-011	ND,<1	100	WHITE PLIABLE	
				Fibrous Glass	TR,<1 %
				Non-fibrous	100 %
0300-030-006A	-012	ND,<1	100	TAN/WHITE FIBROUS CHALKY	
				Cellulose	10 %
				Non-fibrous	90 %
0300-030-006B	-013	ND,<1	100	OFF-WHITE FIBROUS CHALKY	
				Fibrous Glass	10 %
				Cellulose	>1-5 %
				Non-fibrous	85 %
0300-030-006C	-014	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0300-030-007A	-015	ND,<1	100	GRAY HARD GRANULAR	
				Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-030-008A	-016	ND,<1	100	WHITE/BEIGE CHALKY W/BUMPS	
				Non-fibrous	100 %
0300-030-008B	-017	ND,<1	100	WHITE/BEIGE CHALKY W/BUMPS	
				Non-fibrous	100 %
0300-030-008C	-018	ND,<1	100	WHITE/BEIGE CHALKY W/BUMPS	
				Non-fibrous	100 %
0300-030-009A	-019	ND,<1	100	BLACK TARRY FIBROUS	
				Cellulose	85 %
				Non-fibrous	15 %
0300-030-010A	-020	ND,<1	100	RED GRANULAR TARRY FIBROUS	
				Fibrous Glass	TR,<1 %
				Cellulose	50 %
				Non-fibrous	50 %
0300-030-011A	-021	ND,<1	100	GREEN GRANULAR TARRY FIBROUS	

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Fibrous Glass	20 %
				Cellulose	TR,<1 %
				Non-fibrous	80 %
0300-030-012A	-022	5	100	BLACK TARRY FIBROUS W/BLACK FIBROUS TARRY COATING	
				Asbestos found in black coating only	
				Chrysotile	5 %
				Cellulose	65 %
				Non-fibrous	30 %
0300-030-012B	-023	5	100	BLACK TARRY	
				Chrysotile	5 %
				Cellulose	>1-5 %
				Non-fibrous	90 %
0300-030-013A	-024	ND,<1	100	WHITE GRANULAR TARRY FIBROUS	
				Cellulose	45 %
				Non-fibrous	55 %
0300-447A-001A	-025	ND,<1	100	WHITE CHALKY	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0300-447A-001B	-026	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0300-447A-001C	-027	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0300-448B-003A	-028	ND,<1	100	BLACK TARRY	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Fibrous Glass	>1-5 %
				Non-fibrous	80 %
0300-448B-003B	-029	ND,<1	100	BLACK TARRY	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Fibrous Glass	5 %
				Non-fibrous	80 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-003C	-030	ND,<1	100	BLACK TARRY	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Fibrous Glass	5 %
				Non-fibrous	80 %

Debbie Grady, Analyst

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Project: 62470-401-000-06100

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PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-012A	-001	ND,<1	100	TAN/SILVER PLIABLE	
				Fibrous Glass	20 %
				Cellulose	50 %
				Non-fibrous	30 %
0300-448B-012B	-002	ND,<1	100	TAN/SILVER PLIABLE	
				Fibrous Glass	10 %
				Cellulose	50 %
				Non-fibrous	40 %
0300-448B-012C	-003	ND,<1	100	TAN/SILVER PLIABLE	
				Fibrous Glass	15 %
				Cellulose	50 %
				Non-fibrous	35 %
0300-448B-013A	-004	ND,<1	100	BLACK PLIABLE	
				Fibrous Glass	50 %
				Non-fibrous	50 %
0300-448B-013B	-005	ND,<1	100	BLACK PLIABLE	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Fibrous Glass	50 %
				Non-fibrous	50 %
0300-448B-013C	-006	ND,<1	100	BLACK PLIABLE	
				Fibrous Glass	50 %
				Non-fibrous	50 %
0300-448B-014A	-007	ND,<1	100	GRAY/BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-448B-014B	-008	ND,<1	100	GRAY/BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-448B-014C	-009	ND,<1	100	GRAY/BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-448B-015A	-010	ND,<1	100	GRAY/BEIGE PLIABLE	
				Non-fibrous	100 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-015B	-011	ND,<1	100	GRAY/BEIGE PLIABLE	
				Non-fibrous	100 %
0300-448B-015C	-012	ND,<1	100	GRAY/BEIGE PLIABLE	
				Non-fibrous	100 %
0300-448B-016A	-013	ND,<1	100	TAN BRITTLE CARPET MASTIC/MESH	
				Other Fibers: Synthetic	
				Other Fibers	50 %
				Non-fibrous	50 %
0300-448B-016B	-014	ND,<1	100	TAN BRITTLE CARPET MASTIC/MESH	
				Other Fibers: Synthetic	
				Other Fibers	50 %
				Non-fibrous	50 %
0300-448B-016C	-015	ND,<1	100	TAN BRITTLE CARPET MASTIC/MESH	
				Other Fibers: Synthetic	
				Other Fibers	50 %
				Non-fibrous	50 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-449-001A	-016	ND,<1	100	GRAY SMOOTH FLOOR TILE W/MASTIC	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-449-001B	-017	ND,<1	100	GRAY SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-449-001C	-018	ND,<1	100	GRAY SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-449-002A	-019	ND,<1	100	TAN PLIABLE	
				Fibrous Glass	TR,<1 %
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-449-002B	-020	ND,<1	100	TAN PLIABLE	
				Non-fibrous	100 %
0300-449-002C	-021	ND,<1	100	TAN PLIABLE	

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-449-002D	-022	ND,<1	100	TAN PLIABLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-449-003A	-023	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-449-003B	-024	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Non-fibrous	100 %
0300-449-003C	-025	ND,<1	100	BEIEG SMOOTH FLOOR TILE W/MASTIC	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-449-004A	-026	ND,<1	100	BEIGE PLASTER-LIKE	
				Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-449-005A	-027	ND,<1	100	GRAY BRITTLE	
				Non-fibrous	100 %
0300-440A-001A	-028	ND,<1	100	BEIGE/WHITE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0300-440A-001B	-029	ND,<1	100	BEIGE/WHITE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0300-440A-001C	-030	ND,<1	100	BEIGE FIBROUS	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0300-440A-002A	-031	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %

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0300-440A-002B	-032	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-440A-002C	-033	ND,<1	100	BEIGE SMOOTH FLOOR TILE W/O MASTIC	
				Non-fibrous	100 %
0300-440A-003A	-034	ND,<1	100	BEIGE GRANULAR	
				Non-fibrous	100 %
0300-440A-003B	-035	ND,<1	100	BEIGE GRANULAR	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-440A-004A	-036	10	100	BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Asbestos found in tile & mastic	
				Chrysotile	10 %
				Non-fibrous	90 %

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0300-440A-004B	-037	10	100	BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Asbestos found in tile & mastic	
				Chrysotile	10 %
				Non-fibrous	90 %
0300-440A-004C	-038	10	100	BEIGE SMOOTH FLOOR TILE W/MASTIC	
				Asbestos found in tile & mastic	
				Chrysotile	10 %
				Non-fibrous	90 %
0300-440A-005A	-039	30	100	BLACK GRANULAR	
				Chrysotile	30 %
				Cellulose	TR,<1 %
				Non-fibrous	70 %
0300-440A-005B	-040	30	100	BLACK GRANULAR	
				Chrysotile	30 %
				Cellulose	TR,<1 %
				Non-fibrous	70 %
0300-440A-005C	-041	30	100	BLACK GRANULAR	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Chrysotile	30 %
				Cellulose	TR,<1 %
				Non-fibrous	70 %
0300-440A-006A	-042	ND,<1	100	BLACK GRANULAR	
				Cellulose	10 %
				Non-fibrous	90 %
0300-440A-006B	-043	ND,<1	100	BROWN/GRAY BRITTLE	
				Fibrous Glass	TR,<1 %
				Cellulose	5 %
				Non-fibrous	95 %
0300-440A-006C	-044	ND,<1	100	BROWN BRITTLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-440A-007A	-045	10	100	BLACK GRANULAR	
				Chrysotile	10 %
				Non-fibrous	90 %

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PO Number:

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-440A-007B	-046	10	100	BLACK GRANULAR	
				Chrysotile	10 %
				Non-fibrous	90 %
0300-440A-007C	-047	10	100	BLACK GRANULAR	
				Chrysotile	10 %
				Non-fibrous	90 %
0300-440A-008A	-048	ND,<1	100	WHITE PLASTER-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-440A-008B	-049	ND,<1	100	WHITE PLASTER-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0300-440A-008C	-050	ND,<1	100	WHITE PLASTER-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

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Sample Type: 51 - Bulk Sample(s)
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Date Sampled: 03/30/00

PO Number:

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-440A-008D	-051	ND,<1	100	WHITE PLASTER-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

Lynne Overman, Analyst

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Final Report

Date Received: 04/03/00
Sample Type: 20 - Bulk Sample(s)
Project: 62470-401 0000 06100

Date Sampled: 03/31/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Cellulose	90 %
				Non-fibrous	10 %
0300-442-003B	-013	ND,<1	100	BROWN FIBROUS W/BLACK SOFT	
				Cellulose	90 %
				Non-fibrous	10 %
0300-442-003C	-014	ND,<1	100	BROWN FIBROUS W/BLACK SOFT	
				Cellulose	90 %
				Non-fibrous	10 %
0300-446B-001A	-015	ND,<1	100	OFF-WHITE FIBROUS SOFT	
				Cellulose	35 %
				Non-fibrous	65 %
0300-446B-001B	-016	ND,<1	100	OFF-WHITE FIBROUS SOFT	
				Cellulose	35 %
				Non-fibrous	65 %
0300-446B-001C	-017	ND,<1	100	OFF-WHITE FIBROUS SOFT	

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Final Report

Date Received: 04/03/00
Sample Type: 20 - Bulk Sample(s)
Project: 62470-401 0000 06100

Date Sampled: 03/31/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Cellulose	35 %
				Non-fibrous	65 %
0300-446B-002A	-018	ND,<1	100	WHITE CHALKY W/PINK PAINT	
				Non-fibrous	100 %
0300-446B-002B	-019	ND,<1	100	WHITE CHALKY W/PINK PAINT	
				Non-fibrous	100 %
0300-446B-002C	-020	ND,<1	100	WHITE CHALKY W/PINK PAINT	
				Non-fibrous	100 %

Debbie Grady, Analyst

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KEN MARTIN
MICHAEL BAKER CORPORATION
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420 ROUSER RD, BLDG 3, AIRPORT PARK
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Final Report

Date Received: 04/06/00
Date Sampled: 04/01/00
Sample Type: 146 - Bulk Sample(s)
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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-444A-001 A	-001	ND,<1	100	GRAY FLOOR TILE Non-fibrous	100 %
0400-444A-001 B	-002	ND,<1	100	GRAY FLOOR TILE Non-fibrous	100 %
0400-444A-001 C	-003	ND,<1	100	GRAY FLOOR TILE Non-fibrous	100 %
0400-444A-002 A	-004	ND,<1	100	OFF-WHITE MASTIC-LIKE Non-fibrous	100 %
0400-444A-002 B	-005	ND,<1	100	OFF-WHITE MASTIC-LIKE Non-fibrous	100 %
0400-444A-002 C	-006	ND,<1	100	OFF-WHITE MASTIC-LIKE Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-444A-003 A	-007	>1-5 %	100	BROWN FLOOR TILE	
				Chrysotile	>1-5 %
				Non-fibrous	95 %
0400-444A-003 B	-008	>1-5 %	100	BEIGE FLOOR TILE	
				Chrysotile	>1-5 %
				Non-fibrous	95 %
0400-444A-003 C	-009	>1-5 %	100	BROWN FLOOR TILE	
				Chrysotile	>1-5 %
				Non-fibrous	95 %
0400-444A-004 A	-010	15	100	GREEN FLOOR TILE	
				Chrysotile	15 %
				Non-fibrous	85 %
0400-444A-004 B	-011	15	100	GREEN FLOOR TILE	
				Chrysotile	15 %
				Non-fibrous	85 %

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0400-444A-004 C	-012	15	100	GREEN FLOOR TILE	
				Chrysotile	15 %
				Non-fibrous	85 %
0400-444A-005 A	-013	10	100	BLACK MASTIC	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-444A-005 B	-014	10	100	BLACK MASTIC	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-444A-005 C	-015	10	100	BLACK MASTIC	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-445A-001 A	-016	ND,<1	100	WHITE GRANULAR W/OFF-WHITE PAINT-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-445A-001 B	-017	ND,<1	100	WHITE CHALKY W/OFF-WHITE PAINT-LIKE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0400-445A-001 C	-018	ND,<1	100	WHITE CHALKY W/WHITE PAINT-LIKE	
				Non-fibrous	100 %
0400-443A-001 A	-019	35	100	WHITE FIBROUS CHALKY	
				Chrysotile	25 %
				Amosite	10 %
				Non-fibrous	65 %
0400-443A-001 B	-020	35	100	WHITE FIBROUS CHALKY	
				Chrysotile	25 %
				Amosite	10 %
				Non-fibrous	65 %
0400-443A-001 C	-021	35	100	WHITE FIBROUS CHALKY	
				Chrysotile	20 %
				Amosite	15 %
				Cellulose	5 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	60 %
0400-443A-001 D	-022	35	100	WHITE FIBROUS CHALKY	
				Chrysotile	20 %
				Amosite	15 %
				Non-fibrous	65 %
0400-443A-002 A	-023	ND,<1	100	WHITE/BROWN COARSE FIBROUS	
				Cellulose	95 %
				Non-fibrous	5 %
0400-443A-002 B	-024	ND,<1	100	WHITE/BROWN COARSE FIBROUS	
				Cellulose	85 %
				Non-fibrous	15 %
0400-443A-002 C	-025	ND,<1	100	WHITE/BROWN COARSE FIBROUS	
				Cellulose	80 %
				Non-fibrous	20 %
0400-443A-003 A	-026	ND,<1	100	BROWN SOFT	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	100 %
0400-443A-003 B	-027	ND,<1	100	BROWN SOFT	
				Non-fibrous	100 %
0400-443A-003 C	-028	ND,<1	100	BROWN SOFT	
				Non-fibrous	100 %
0400-443A-004 A	-029	ND,<1	100	BEIGE SHEET VINYL W/FIBROUS BACK	
				Fibrous Glass	>1-5 %
				Cellulose	25 %
				Non-fibrous	70 %
0400-443A-004 B	-030	ND,<1	100	BEIGE SHEET VINYL W/FIBROUS BACK	
				Fibrous Glass	>1-5 %
				Cellulose	25 %
				Non-fibrous	70 %
0400-443A-004 C	-031	ND,<1	100	BEIGE SHEET VINYL W/FIBROUS BACK	
				Fibrous Glass	>1-5 %

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				Cellulose	25 %
				Non-fibrous	70 %
0400-443A-005 A	-032	20	100	BROWN FLOOR TILE	
				Chrysotile	20 %
				Non-fibrous	80 %
0400-443A-005 B	-033	20	100	BROWN FLOOR TILE	
				Chrysotile	20 %
				Non-fibrous	80 %
0400-443A-005 C	-034	20	100	BROWN FLOOR TILE	
				Chrysotile	20 %
				Non-fibrous	80 %
0400-443A-006 A	-035	10	100	BLACK/BROWN MASTIC/GRAINS	
				Chrysotile	10 %
				Cellulose	TR,<1 %
				Non-fibrous	90 %

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0400-443A-006 B	-036	10	100	BLACK/BROWN MASTIC/GRAINS	
				Chrysotile	10 %
				Cellulose	>1-5 %
				Non-fibrous	85 %
0400-443A-006 C	-037	10	100	BLACK/BROWN MASTIC/GRAINS	
				Chrysotile	10 %
				Cellulose	>1-5 %
				Non-fibrous	85 %
0400-443A-007 A	-038	ND,<1	100	OFF-WHITE FIBROUS CHALKY	
				Fibrous Glass	>1-5 %
				Cellulose	5 %
				Non-fibrous	90 %
0400-443A-007 B	-039	ND,<1	100	OFF-WHITE FIBROUS CHALKY	
				Fibrous Glass	>1-5 %
				Cellulose	5 %
				Non-fibrous	90 %
0400-443A-007 C	-040	ND,<1	100	OFF-WHITE FIBROUS CHALKY	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Fibrous Glass	>1-5 %
				Cellulose	5 %
				Non-fibrous	90 %
0400-443A-008 A	-041	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0400-443A-008 B	-042	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0400-443A-008 C	-043	ND,<1	100	WHITE CHALKY	
				Non-fibrous	100 %
0400-448A-001 A	-044	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %
0400-448A-001 B	-045	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-448A-001 C	-046	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %
0400-448A-002 A	-047	ND,<1	100	BEIGE SOFT	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0400-448A-002 B	-048	ND,<1	100	GRAY-BEIGE FIBROUS GRANULAR SOFT	
				Cellulose	10 %
				Non-fibrous	90 %
0400-448A-002 C	-049	ND,<1	100	GRAY-BEIGE FIBROUS GRANULAR SOFT	
				Cellulose	5 %
				Non-fibrous	95 %
0400-448A-003 A	-050	25	100	WHITE FIBROUS CHALKY	
				Chrysotile	10 %
				Amosite	15 %
				Non-fibrous	75 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-448A-003 B	-051	25	100	WHITE FIBROUS CHALKY	
				Chrysotile	10 %
				Amosite	15 %
				Non-fibrous	75 %
0400-448A-003 C	-052	25	100	WHITE FIBROUS CHALKY	
				Chrysotile	10 %
				Amosite	15 %
				Non-fibrous	75 %
0400-448B-001 A	-053	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-001 B	-054	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-001 C	-055	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-002 A	-056	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-448B-002 B	-057	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-002 C	-058	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-003 A	-059	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-003 B	-060	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-448B-003 C	-061	--	--	SAMPLE MISSING DUE TO LABORATORY ERROR	
0400-443A-010A	-062	ND,<1	100	GRAY HARD GRANULAR Non-fibrous	100 %

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0400-443A-009 A	-063	ND,<1	100	RED SOFT	
				Non-fibrous	100 %
0400-443A-009 B	-064	ND,<1	100	BROWN SOFT	
				Non-fibrous	100 %
0400-443A-009 C	-065	ND,<1	100	BROWN SOFT	
				Non-fibrous	100 %
0400-443B-001 A	-066	25	100	BROWN FIBROUS CEMENTITIOUS	
				Chrysotile	25 %
				Non-fibrous	75 %
0400-443B-001 B	-067	25	100	BROWN FIBROUS CEMENTITIOUS	
				Chrysotile	25 %
				Non-fibrous	75 %
0400-443B-001 C	-068	25	100	BROWN FIBROUS CEMENTITIOUS	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Chrysotile	25 %
				Non-fibrous	75 %
0400-443B-002 A	-069	15	100	BLACK/BROWN SOFT GRAINS	
				Chrysotile	15 %
				Cellulose	TR,<1 %
				Non-fibrous	85 %
0400-443B-002 B	-070	15	100	BLACK/BROWN SOFT GRAINS	
				Chrysotile	15 %
				Cellulose	>1-5 %
				Non-fibrous	80 %
0400-443B-002 C	-071	15	100	BLACK/BROWN SOFT GRAINS	
				Chrysotile	15 %
				Cellulose	>1-5 %
				Non-fibrous	80 %
0400-443B-003 A	-072	ND,<1	100	BLACK BRITTLE GRAINS	
				Non-fibrous	100 %

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0400-443B-003 B	-073	ND,<1	100	BLACK BRITTLE GRAINS	
				Non-fibrous	100 %
0400-443B-003 C	-074	ND,<1	100	BLACK BRITTLE GRAINS	
				Non-fibrous	100 %
0400-444A-006 A	-075	ND,<1	100	BEIGE SOFT	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0400-444A-006 B	-076	ND,<1	100	BEIGE SOFT	
				Cellulose	>1-5 %
				Non-fibrous	95 %
0400-444A-006 C	-077	ND,<1	100	BEIGE SOFT	
				Cellulose	>1-5 %
				Non-fibrous	95 %
0400-444A-008A	-078	25	100	GRAY FIBROUS CEMENTITIOUS	

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Chrysotile	25 %
				Non-fibrous	75 %
0400-444B-008 B	-079	5	100	GRAY/BROWN FIBROUS CEMENTITIOUS	
				Chrysotile	5 %
				Non-fibrous	95 %
0400-444B-008 C	-080	5	100	GRAY/BROWN FIBROUS CEMENTITIOUS	
				Chrysotile	5 %
				Non-fibrous	95 %
0400-444B-001 A	-081	ND,<1	100	WHITE CHALKY W/GRAY HARD	
				Non-fibrous	100 %
0400-444B-001 B	-082	ND,<1	100	WHITE SMOOTH & GRANULAR PLASTERS-LIKE	
				Non-fibrous	100 %
0400-444B-001 C	-083	ND,<1	100	WHITE CHALKY W/WHITE GRANULAR	
				Non-fibrous	100 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-444A-007 A	-084	10	100	BLACK FIBROUS SOFT	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-444A-007 B	-085	10	100	BLACK FIBROUS SOFT	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-444A-007 C	-086	10	100	BLACK FIBROUS SOFT	
				Chrysotile	10 %
				Non-fibrous	90 %
0400-444B-002 A	-087	>1-5 %	100	BLACK FIBROUS TARRY W/SILVER PAINT-LIKE	
				Other Fibers: Synthetic	
				Asbestos found in silver paint-like	
				Chrysotile	>1-5 %
				Other Fibers	TR,<1 %
				Cellulose	15 %
				Non-fibrous	80 %

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Final Report

Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
Project:

Date Sampled: 04/02/00

PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-444B-002 B	-088	>1-5 %	100	BLACK FIBROUS TARRY W/SILVER PAINT-LIKE	
				Other Fibers: Synthetic	
				Asbestos found in silver paint-like only	
				Chrysotile	>1-5 %
				Other Fibers	TR,<1 %
				Cellulose	15 %
				Non-fibrous	80 %
0400-444B-002 C	-089	>1-5 %	100	BLACK FIBROUS TARRY W/SILVER PAINT-LIKE	
				Other Fibers: Synthetic	
				Asbestos found in silver paint-like & fi	
				tarry layer under paint-like	
				Chrysotile	>1-5 %
				Other Fibers	TR,<1 %
				Cellulose	15 %
				Non-fibrous	80 %
0400-444B-003 A	-090	20	100	BLACK/GRAY FIBROUS TARRY	
				Chrysotile	20 %
				Non-fibrous	80 %
0400-444B-003 B	-091	20	100	BLACK/GRAY FIBROUS TARRY	

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Group No. E095061
Account No. 37819180
Report Date: 04/10/00

KEN MARTIN
MICHAEL BAKER CORPORATION
SAN JUAN
420 ROUSER RD, BLDG 3, AIRPORT PARK
CORAOPOLIS, PA 15108

Final Report

Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
Project:

Date Sampled: 04/02/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Chrysotile	20 %
				Non-fibrous	80 %
0400-444B-004A	-092	ND,<1	100	WHITE/GREEN SMOOTH	
				Non-fibrous	100 %
0400-444A-009A	-093	ND,<1	100	GREEN/WHITE SMOOTH W/WHITE CHALKY	
				Non-fibrous	100 %
0400-444A-010A	-094	ND,<1	100	GRAY HARD GRANULAR	
				Non-fibrous	100 %
0400-440B-001 A	-095	ND,<1	100	BLACK FIBROUS TARRY	
				Cellulose	15 %
				Non-fibrous	85 %
0400-440B-001 B	-096	ND,<1	100	BLACK FIBROUS TARRY	
				Cellulose	25 %
				Non-fibrous	75 %

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Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-440B-001 C	-097	ND,<1	100	BLACK TARRY	
				Non-fibrous	100 %
0400-440B-002 A	-098	ND,<1	100	BEIGE-GRAY HARD	
				Non-fibrous	100 %
0400-440B-002 B	-099	ND,<1	100	BEIGE/GRAY HARD	
				Non-fibrous	100 %
0400-440B-002 C	-100	ND,<1	100	BEIGE/GRAY HARD	
				Non-fibrous	100 %
0400-440B-003 A	-101	ND,<1	100	WHITE SOFT	
				Non-fibrous	100 %
0400-440B-003 B	-102	ND,<1	100	WHITE SOFT	
				Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-440B-003 C	-103	ND,<1	100	WHITE SOFT	
				Non-fibrous	100 %
0400-447B-004 A	-104	30	100	BLACK TARRY FIBROUS	
				Chrysotile	30 %
				Cellulose	20 %
				Non-fibrous	50 %
0400-447B-004 B	-105	35	100	BLACK TARRY FIBROUS	
				Chrysotile	35 %
				Cellulose	25 %
				Non-fibrous	40 %
0400-447B-004 C	-106	35	100	BLACK TARRY FIBROUS	
				Chrysotile	35 %
				Cellulose	25 %
				Non-fibrous	40 %
0400-449-006 A	-107	ND,<1	100	BLACK GRANULAR SOFT W/WHITE SOFT	
				Cellulose	TR,<1 %
				Non-fibrous	100 %

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-449-006 B	-108	ND,<1	100	BLACK GRANULAR BRITTLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0400-449-006 C	-109	ND,<1	100	BLACK GRANULAR BRITTLE	
				Cellulose	TR,<1 %
				Non-fibrous	100 %
0400-454-002A	-110	ND,<1	100	OFF-WHITE WOVEN W/GRAY SOFT	
				Cellulose	20 %
				Non-fibrous	80 %
0400-454-001A	-111	95	100	OFF-WHITE FIBROUS	
				Chrysotile	95 %
				Non-fibrous	5 %
0400-028-001 A	-112	ND,<1	100	WHITE GRANULAR	
				Non-fibrous	100 %

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Final Report

Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
Project:

Date Sampled: 04/03/00
PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-028-001 B	-113	ND,<1	100	WHITE GRANULAR	
				Non-fibrous	100 %
0400-029-001 A	-114	ND,<1	100	WHITE CHALKY	
				Other Fibers: Talc	
				Other Fibers	TR,<1 %
				Non-fibrous	100 %
0400-029-001 B	-115	ND,<1	100	WHITE CHALKY	
				Other Fibers: Talc	
				Other Fibers	TR,<1 %
				Non-fibrous	100 %
0400-029-001 C	-116	ND,<1	100	WHITE CHALKY	
				Other Fibers: Talc	
				Other Fibers	TR,<1 %
				Non-fibrous	100 %
0400-441-001 A	-117	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %

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PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-441-001 B	-118	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %
0400-441-001 C	-119	ND,<1	100	BEIGE FLOOR TILE	
				Non-fibrous	100 %
0400-441-002 A	-120	ND,<1	100	BLACK MASTIC	
				Other Fibers: Synthetic	
				Other Fibers	15 %
				Non-fibrous	85 %
0400-441-002 B	-121	ND,<1	100	BLACK MASTIC	
				Other Fibers: Synthetic	
				Other Fibers	15 %
				Non-fibrous	85 %
0400-441-002 C	-122	ND,<1	100	BLACK MASTIC	
				Other Fibers: Synthetic	
				Other Fibers	15 %

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Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
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PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Non-fibrous	85 %
0400-441-003 A	-123	ND,<1	100	BROWN BRITTLE	
				Non-fibrous	100 %
0400-441-003 B	-124	ND,<1	100	BROWN BRITTLE	
				Non-fibrous	100 %
0400-441-003 C	-125	ND,<1	100	BROWN BRITTLE	
				Non-fibrous	100 %
0400-441-004 A	-126	ND,<1	100	WHITE FIBROUS CEILING TILE	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0400-441-004 B	-127	ND,<1	100	WHITE FIBROUS CEILING TILE	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %

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Sample Type: 146 - Bulk Sample(s)
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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-441-004 C	-128	ND,<1	100	WHITE FIBROUS CEILING TILE	
				Fibrous Glass	30 %
				Cellulose	40 %
				Non-fibrous	30 %
0400-441-005 A	-129	ND,<1	100	BLACK MASTIC	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Fibrous Glass	TR,<1 %
				Non-fibrous	85 %
0400-441-005 B	-130	ND,<1	100	BLACK MASTIC	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Fibrous Glass	TR,<1 %
				Non-fibrous	85 %
0400-441-005 C	-131	ND,<1	100	BLACK MASTIC	
				Other Fibers: Wollastonite	
				Other Fibers	15 %

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Date Received: 04/06/00
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Sample Type: 146 - Bulk Sample(s)
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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Fibrous Glass	TR,<1 %
				Non-fibrous	85 %
0400-441-006A	-132	ND,<1	100	GRAY FIBROUS SOFT CARPET BACK	
				Other Fibers: Synthetic	
				Other Fibers	35 %
				Non-fibrous	65 %
0400-441-007A	-133	ND,<1	100	GRAY FIBROUS SOFT CARPET BACK	
				Other Fibers: Synthetic	
				Other Fibers	35 %
				Non-fibrous	65 %
0400-441-008A	-134	ND,<1	100	TAN FIBROUS PAPER	
				Fibrous Glass	5 %
				Cellulose	90 %
				Non-fibrous	5 %
0400-441-009A	-135	ND,<1	100	TAN SOFT	
				Non-fibrous	100 %

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Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
Project:

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PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-031-001 A	-136	ND,<1	100	BLACK-BROWN FIBROUS SOFT	
				Other Fibers: Synthetic	
				Other Fibers	35 %
				Non-fibrous	65 %
0400-031-001 B	-137	ND,<1	100	BLACK-BROWN FIBROUS SOFT	
				Other Fibers: Synthetic	
				Other Fibers	35 %
				Non-fibrous	65 %
0400-031-001 C	-138	ND,<1	100	BLACK-BROWN FIBROUS SOFT	
				Other Fibers: Synthetic	
				Other Fibers	35 %
				Non-fibrous	65 %
0400-029-005 A	-139	ND,<1	100	BLACK/BROWN GRANULAR TARRY FIBROUS	
				Cellulose	45 %
				Non-fibrous	55 %
0400-029-005 B	-140	ND,<1	100	BLACK/BROWN GRANULAR TARRY FIBROUS	

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Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
				Cellulose	45 %
				Non-fibrous	55 %
0400-029-003 A	-141	ND,<1	100	BLACK/BROWN GRANULAR TARRY FIBROUS	
				Fibrous Glass	20 %
				Non-fibrous	80 %
0400-029-003 B	-142	ND,<1	100	BLACK/BROWN GRANULAR TARRY FIBROUS	
				Fibrous Glass	20 %
				Non-fibrous	80 %
0400-029-004A	-143	5	100	BLACK/RED GRANULAR TARRY FIBROUS	
				Chrysotile	5 %
				Cellulose	45 %
				Non-fibrous	50 %
0400-028-004B	-144	ND,<1	100	BLACK/RED GRANULAR TARRY FIBROUS	
				Fibrous Glass	15 %
				Cellulose	15 %
				Non-fibrous	70 %

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Final Report

Date Received: 04/06/00
Sample Type: 146 - Bulk Sample(s)
Project:

Date Sampled: 04/03/00

PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0400-442-004A	-145	ND,<1	100	BLACK/BLUE BRITTLE GRAINS	
				Cellulose	30 %
				Non-fibrous	70 %
0400-029-002A	-146	ND,<1	100	BROWN FIBROUS	
				Cellulose	100 %
				Non-fibrous	TR,<1 %

Debbie Grady, Analyst

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Group No. E102026
Account No. 37819180
Report Date: 04/11/00

KEN MARTIN
MICHAEL BAKER CORPORATION
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CORAOPOLIS, PA 15108

Final Report

Date Received: 04/11/00
Sample Type: 3 - Bulk Sample(s)
Project: 62470-401

Date Sampled:

PO Number:

Analytical Results

Client No.\ Description	Lab ID	Total Asbestos in Samp	Layer % of Samp	Sample Components	Results per Layer
0300-448B-001A	-001	ND,<1	100	WHITE/GRAY FLOOR TILE	
				Non-fibrous	100 %
0300-448B-002A	-002	ND,<1	100	WHITE-OFF-WHITE MASTICS	
				Other Fibers: Wollastonite	
				Other Fibers	TR,<1 %
				Non-fibrous	100 %
0300-448B-003A	-003	ND,<1	100	BLACK MASTIC	
				Other Fibers: Wollastonite	
				Other Fibers	15 %
				Non-fibrous	85 %

Debbie Grady, Analyst

APPENDIX D
ASBESTOS ABATEMENT ITEM LISTING

ABBREVIATIONS USED ON THE ABATEMENT ITEM LISTING:

EA -- EACH

LF -- LINEAR FOOT

LS -- LUMP SUM

MH -- MAN HOUR

SF -- SQUARE FOOT

H -- HOUR

PR -- PAIR

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	01	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FLOOR TILE. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$26.90
	02	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FLOOR SHEETING. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.10
	03	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FLOORING ADHESIVE. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$26.30
	04	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT FLOORING. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$34.18
	05	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SUB-FLOORING MATERIAL. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$33.42
	10	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALL PLASTER. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$30.22
	11	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALLBOARD. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.90
	12	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT WALL PANEL. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.74
	13	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ACOUSTICAL WALL PANEL. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.90
	14	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FABRIC WALL COVERING. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$30.17
	15	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING PAINT. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$30.16

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	16	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING JOINT COMPOUND. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.90
	17	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CAULK. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$32.74
	18	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALL INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$26.44
	19	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FIRE PROOFING. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$31.36
	20	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEILING PLASTER. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$30.91
	21	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEILING BOARD. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$30.55
	22	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT CEILING PANEL. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.65
	23	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEILING TILE. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.58
	24	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEILING INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$26.52
	25	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEILING ROUGH FINISH. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$31.13

ABATEMENT ITEM LISTING

Item Number	Item Description	Unit	Unit Price
26	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALL AND CEILING PLASTER. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$31.13
27	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT WALL AND CEILING PANELS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$28.05
28	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALL AND CEILING BOARD. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.90
29	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT WALL AND CEILING TILES. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.90
30	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING THERMAL PIPE INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$36.44
31	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING THERMAL FITTING INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	EA	$66.03
32	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING THERMAL TAPE. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$35.56
33	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT PIPE. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$30.03
34	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SHEET GASKET. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.14
35	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ROPE GASKET. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$45.70

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	36	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FLEX CONNECTOR. REMOVAL BY FULL CONTAINMENT METHOD.	EA	$94.68
	37	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING DUCT INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.95
	38	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT DUCT. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$30.03
	39	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FIRE DAMPER. REMOVAL METHOD IS TO REMOVE THE ENTIRE FIRE DAMPER INTACT.	EA	$37.70
	40	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING INTERNAL BOILER INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$36.81
	41	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR BOILER INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.17
	42	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING TANK INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.95
	43	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING BREECHING/STACK INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$28.92
	44	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING THERMAL PIPE AND FITTING INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$29.19
	45	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING MECHANICAL EQUIPMENT INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.95

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	46	REMOVAL AND DISPOSAL OF ASBESTOS INSULATED ELECTRICAL WIRING. REMOVAL BY FULL CONTAINMENT METHOD.	LF	$27.88
	47	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING LAMP REFLECTORS. REMOVAL METHOD IS TO REMOVE THE LAMP INTACT.	EA	$26.71
	50	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ASBESTOS DEBRIS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$34.28
	51	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING KILN INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$36.81
	52	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FIRE DOOR INSULATION. REMOVAL METHOD IS TO REMOVE THE FIRE DOOR INTACT.	EA	$36.81
	53	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING STAGE CURTAINS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$26.61
	54	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING STALL PARTITIONS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.99
	55	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SPLASH PANELS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.74
	56	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WINDOW SILLS. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$32.19
	57	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING LABORATORY FUME HOOD. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$29.65
	58	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING GLOVES.	PR	$18.67

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	59	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FIRE BLANKET.	EA	$26.61
	60	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING HEAT SHIELD. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$27.99
	61	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING NAPKIN INCINERATOR LINING. REMOVAL METHOD IS TO REMOVE THE NAPKIN INCINERATOR INTACT.	EA	$36.81
	62	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CHALKBOARD. REMOVAL BY PARTIAL CONTAINMENT METHOD.	SF	$27.74
	63	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING TABLE TOP. REMOVAL BY PARTIAL CONTAINMENT METHOD.	SF	$27.74
	64	REMOVAL AND DISPOSAL OF THE SINK.	EA	$30.27
	65	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING BUNSEN BURNER PAD.	EA	$3.40
	66	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ELEVATOR BRAKE SHOES.	EA	$38.16
	67	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING LAB OVEN INSULATION. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$36.81
	70	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR SOILS. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$33.42
	71	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR SIDING. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.65

ABATEMENT ITEM LISTING

Price	Item Number	Item Description	Unit	Unit
	72	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR SIDING SHINGLES. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.29
	73	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SOFFITS. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$28.94
	74	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING FACIA. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.65
	75	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR PLASTER. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$34.53
	76	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING WALKWAY CEILING. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$28.94
	77	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT ROOFING PANEL. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$28.94
	78	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ASPHALTIC ROOFING MATERIAL. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.29
	79	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING EXTERIOR CAULK. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$32.74
	80	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING LOUVER. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.65
	81	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CEMENT CORRUGATED ROOF. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$28.94

ABATEMENT ITEM LISTING

Item Number	Item Description	Unit	Unit Price
82	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING ASPHALTIC VAPOR BARRIER. REMOVAL BY MODIFIED CONTAINMENT METHOD.	SF	$29.29
83	REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING CHIMNEY LINING. REMOVAL BY FULL CONTAINMENT METHOD.	SF	$36.81
100	CONDUCT REPAIR ACTIVITIES FOR AN ASBESTOS-CONTAINING MATERIAL. REPAIR ACTIVITIES COULD INCLUDE SMALL-SCALE REMOVAL, SMALL-SCALE ENCAPSULATION, SMALL-SCALE ENCLOSURE, AND/OR REPAIR OF DAMAGED AREAS. HOURLY RATE INCLUDES A 2-PERSON, FULLY EQUIPPED CREW TO CONDUCT REPAIR ACTIVITIES.	HR	$175.55