

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","375-22-4","PFBA",".500000","ng/L","U",".14","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","307-24-4","PFHxA",".500000","ng/L","U",".19","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","375-85-9","PFHpA",".500000","ng/L","U",".16","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","335-67-1","PFOA","1.570000","ng/L","J",".18","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","375-95-1","PFNA","1.000000","ng/L","U",".26","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500","1.00",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","335-76-2","PFDA",".500000","ng/L","U",".16","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","2058-94-8","PFUnA","1.000000","ng/L","U",".29","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500","1.00",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","307-55-1","PFDoA",".500000","ng/L","U",".18","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","72629-94-8","PFTrDA",".500000","ng/L","U",".15","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","376-06-7","PFTeDA","1.000000","ng/L","U",".25","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500","1.00",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","2355-31-9","NMeFOSAA","2.000000","ng/L","U",".56","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500","2.00",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","2991-50-6","NEtFOSAA","1.000000","ng/L","U",".49","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500","1.00",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","375-73-5","PFBS",".500000","ng/L","U",".13","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","355-46-4","PFHxS",".400000","ng/L","U",".11","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".40",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","1763-23-1","PFOS",".500000","ng/L","U",".19","MDL","","","T","","","5.00","LOQ","YES",-99.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2105","13C4-PFBA","1.020000","ng/L","","-99.00","NA","","SIS","102.00","","-99.00","NA","YES","1.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2217","13C5-PFHxA","1.270000","ng/L","","-99.00","NA","","SIS","127.00","","-99.00","NA","YES","1.000000","",".250000",".000500",".50",""

"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2218","13C4-PFHpA","1.280000","ng/L","","-99.00","NA","","SIS","128.00","","-99.00","NA","YES","1.000000","",".250000",".000500",".50",""

0500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2219","13C8-
PFOA","1.300000","ng/L","",-99.00","NA","","SIS","130.00","",-99.00","NA","YES","1.000000","",-250000",".000
500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2221","13C9-
PFNA","1.490000","ng/L","",-99.00","NA","","SIS","149.00","",-99.00","NA","YES","1.000000","",-250000",".000
500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2222","13C6-
PFDA","1.260000","ng/L","",-99.00","NA","","SIS","126.00","",-99.00","NA","YES","1.000000","",-250000",".000
500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2223","13C7-
PFUnA","1.200000","ng/L","",-99.00","NA","","SIS","120.00","",-99.00","NA","YES","1.000000","",-250000",".00
0500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2112","13C2-
PFDaA","1.100000","ng/L","",-99.00","NA","","SIS","110.00","",-99.00","NA","YES","1.000000","",-250000",".00
0500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2224","13C2-
PFTeDA","1.030000","ng/L","",-99.00","NA","","SIS","103.00","",-99.00","NA","YES","1.000000","",-250000",".0
00500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-1838","d3-
MeFOSAA","1.110000","ng/L","",-99.00","NA","","SIS","111.00","",-99.00","NA","YES","1.000000","",-250000",
".000500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-1839","d5-
EtFOSAA","1.120000","ng/L","",-99.00","NA","","SIS","112.00","",-99.00","NA","YES","1.000000","",-250000",".
000500",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2226","13C3-
PFBS",".880000","ng/L","",-99.00","NA","","SIS","94.00","",-99.00","NA","YES",".930000","",-250000",".000500
",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2227","13C3-
PFHxS",".960000","ng/L","",-99.00","NA","","SIS","101.00","",-99.00","NA","YES",".950000","",-250000",".0005
00",".50",""
"CS469PB-FS","SOP 5-369","Initial","CS469PB-FS","BNO","BDO-2228","13C8-
PFOS","1.080000","ng/L","",-99.00","NA","","SIS","113.00","",-99.00","NA","YES",".960000","",-250000",".0005
00",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","375-22-
4","PFBA","11.130000","ng/L","",.14","MDL","","T","111.00","","5.00","LOQ","YES","10.000000","",-250000",".0
00500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","307-24-
4","PFHxA","10.580000","ng/L","",.19","MDL","","T","105.00","","5.00","LOQ","YES","10.100000","",-250000",".
000500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","375-85-
9","PFHpA","9.960000","ng/L","",.16","MDL","","T","100.00","","5.00","LOQ","YES","10.000000","",-250000",".0
00500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","335-67-
1","PFOA","10.490000","ng/L","B",".18","MDL","","T","105.00","","5.00","LOQ","YES","10.000000","",-250000",".
000500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","375-95-
1","PFNA","8.880000","ng/L","",.26","MDL","","T","89.00","","5.00","LOQ","YES","10.000000","",-250000",".000
500","1.00",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","335-76-
2","PFDA","9.370000","ng/L","",.16","MDL","","T","94.00","","5.00","LOQ","YES","10.000000","",-250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","2058-94-
8","PFUnA","10.670000","ng/L","",.29","MDL","","T","107.00","","5.00","LOQ","YES","10.000000","",-250000",".

000500","1.00",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","307-55-
1","PFD_oA","10.460000","ng/L","",".18","MDL","", "T","105.00","", "5.00","LOQ","YES","10.000000","", ".250000",".
000500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","72629-94-
8","PFT_rDA","10.010000","ng/L","", ".15","MDL","", "T","100.00","", "5.00","LOQ","YES","10.000000","", ".250000",".
.000500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","376-06-
7","PFT_eDA","10.170000","ng/L","", ".25","MDL","", "T","102.00","", "5.00","LOQ","YES","10.000000","", ".250000",
".000500","1.00",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","2355-31-
9","NMeFOSAA","9.700000","ng/L","", ".56","MDL","", "T","97.00","", "5.00","LOQ","YES","10.000000","", ".250000",
", ".000500","2.00",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","2991-50-
6","NEtFOSAA","9.400000","ng/L","", ".49","MDL","", "T","94.00","", "5.00","LOQ","YES","10.000000","", ".250000",
".000500","1.00",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","375-73-
5","PFBS","9.840000","ng/L","", ".13","MDL","", "T","97.00","", "5.00","LOQ","YES","10.100000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","355-46-
4","PFH_xS","8.990000","ng/L","", ".11","MDL","", "T","89.00","", "5.00","LOQ","YES","10.100000","", ".250000",".00
0500",".40",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","1763-23-
1","PFOS","9.800000","ng/L","", ".19","MDL","", "T","98.00","", "5.00","LOQ","YES","10.000000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2105","13C4-
PFBA",".890000","ng/L","", "-99.00","NA","", "SIS","89.00","", "-99.00","NA","YES","1.000000","", ".250000",".00050
0",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2217","13C5-
PFH_xA",".980000","ng/L","", "-99.00","NA","", "SIS","98.00","", "-99.00","NA","YES","1.000000","", ".250000",".0005
00",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2218","13C4-
PFH_pA",".940000","ng/L","", "-99.00","NA","", "SIS","94.00","", "-99.00","NA","YES","1.000000","", ".250000",".0005
00",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2219","13C8-
PFOA","1.040000","ng/L","", "-99.00","NA","", "SIS","104.00","", "-99.00","NA","YES","1.000000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2221","13C9-
PFNA","1.130000","ng/L","", "-99.00","NA","", "SIS","113.00","", "-99.00","NA","YES","1.000000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2222","13C6-
PFDA","1.110000","ng/L","", "-99.00","NA","", "SIS","111.00","", "-99.00","NA","YES","1.000000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2223","13C7-
PFUnA","1.010000","ng/L","", "-99.00","NA","", "SIS","101.00","", "-99.00","NA","YES","1.000000","", ".250000",".00
0500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2112","13C2-
PFD_oA","1.000000","ng/L","", "-99.00","NA","", "SIS","100.00","", "-99.00","NA","YES","1.000000","", ".250000",".00
0500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-2224","13C2-
PFT_eDA",".960000","ng/L","", "-99.00","NA","", "SIS","96.00","", "-99.00","NA","YES","1.000000","", ".250000",".000
500",".50",""
"CS470LCS-FS","SOP 5-369","Initial","CS470LCS-FS","BNO","BDO-1838","d3-
MeFOSAA","1.010000","ng/L","", "-99.00","NA","", "SIS","101.00","", "-99.00","NA","YES","1.000000","", ".250000",

0",".38",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","1763-23-
1","PFOS",".300000","ng/L","J",".18","MDL","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",
".47",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2105","13C4-
PFBA",".750000","ng/L","","-99.00","NA","","SIS","79.00","","-99.00","NA","YES",".940000","",".265000",".000500",
".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2217","13C5-
PFHxA",".920000","ng/L","","-99.00","NA","","SIS","97.00","","-99.00","NA","YES",".940000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2218","13C4-
PFHpA","1.070000","ng/L","","-99.00","NA","","SIS","113.00","","-99.00","NA","YES",".940000","",".265000",".000",
500",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2219","13C8-
PFOA","1.020000","ng/L","","-99.00","NA","","SIS","108.00","","-99.00","NA","YES",".940000","",".265000",".0005",
00",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2221","13C9-
PFNA","1.020000","ng/L","","-99.00","NA","","SIS","108.00","","-99.00","NA","YES",".940000","",".265000",".0005",
00",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2222","13C6-
PFDA",".990000","ng/L","","-99.00","NA","","SIS","105.00","","-99.00","NA","YES",".940000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2223","13C7-
PFUnA",".930000","ng/L","","-99.00","NA","","SIS","99.00","","-99.00","NA","YES",".940000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2112","13C2-
PFDaA",".890000","ng/L","","-99.00","NA","","SIS","95.00","","-99.00","NA","YES",".940000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2224","13C2-
PFTeDA",".790000","ng/L","","-99.00","NA","","SIS","84.00","","-99.00","NA","YES",".940000","",".265000",".0005",
00",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-1838","d3-
MeFOSAA",".800000","ng/L","","-99.00","NA","","SIS","85.00","","-99.00","NA","YES",".940000","",".265000",".00",
0500",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-1839","d5-
EtFOSAA",".810000","ng/L","","-99.00","NA","","SIS","86.00","","-99.00","NA","YES",".940000","",".265000",".000",
500",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2226","13C3-
PFBS",".960000","ng/L","","-99.00","NA","","SIS","109.00","","-99.00","NA","YES",".880000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2227","13C3-
PFHxS",".850000","ng/L","","-99.00","NA","","SIS","95.00","","-99.00","NA","YES",".890000","",".265000",".00050",
0",".50",""
"NASB-CW-GW04-1218","SOP 5-369","Initial","J9987-FS","BNO","BDO-2228","13C8-
PFOS",".880000","ng/L","","-99.00","NA","","SIS","97.00","","-99.00","NA","YES",".900000","",".265000",".000500",
".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","375-22-
4","PFBA","1.570000","ng/L","J",".13","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",
".45",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","307-24-
4","PFHxA",".870000","ng/L","J",".17","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",
".45",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","375-85-
9","PFHpA",".520000","ng/L","J",".15","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500"

",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","335-67-1","PFOA","2.470000","ng/L","J",".16","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","375-95-1","PFNA",".910000","ng/L","U",".24","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".91","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","335-76-2","PFDA",".450000","ng/L","U",".15","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","2058-94-8","PFUnA",".910000","ng/L","U",".26","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".91","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","307-55-1","PFDaA",".450000","ng/L","U",".16","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","72629-94-8","PFTTrDA",".450000","ng/L","U",".14","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","376-06-7","PFTeDA",".910000","ng/L","U",".23","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".91","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","2355-31-9","NMeFOSAA","1.820000","ng/L","U",".51","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500","1.82","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","2991-50-6","NEtFOSAA",".910000","ng/L","U",".45","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".91","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","375-73-5","PFBS",".370000","ng/L","J",".12","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","355-46-4","PFHxS","1.160000","ng/L","J",".10","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".36","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","1763-23-1","PFOS",".430000","ng/L","J",".17","MDL","","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",".45","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2105","13C4-PFBA",".710000","ng/L","","","-99.00","NA","","","SIS","79.00","","","-99.00","NA","YES",".910000","",".275000",".000500",".50","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2217","13C5-PFHxA",".790000","ng/L","","","-99.00","NA","","","SIS","87.00","","","-99.00","NA","YES",".910000","",".275000",".000500",".50","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2218","13C4-PFHpA",".840000","ng/L","","","-99.00","NA","","","SIS","92.00","","","-99.00","NA","YES",".910000","",".275000",".000500",".50","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2219","13C8-PFOA",".780000","ng/L","","","-99.00","NA","","","SIS","86.00","","","-99.00","NA","YES",".910000","",".275000",".000500",".50","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2221","13C9-PFNA",".820000","ng/L","","","-99.00","NA","","","SIS","90.00","","","-99.00","NA","YES",".910000","",".275000",".000500",".50","""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2222","13C6-PFDA",".760000","ng/L","","","-99.00","NA","","","SIS","83.00","","","-99.00","NA","YES",".910000","",".275000",".000500"

",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2223","13C7-
PFUnA",".770000","ng/L","",-99.00","NA","","SIS","85.00","",-99.00","NA","YES",".910000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2112","13C2-
PFDaA",".760000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".910000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2224","13C2-
PFTeDA",".770000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".910000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-1838","d3-
MeFOSAA",".630000","ng/L","",-99.00","NA","","SIS","70.00","",-99.00","NA","YES",".910000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-1839","d5-
EtFOSAA",".650000","ng/L","",-99.00","NA","","SIS","72.00","",-99.00","NA","YES",".910000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2226","13C3-
PFBS",".830000","ng/L","",-99.00","NA","","SIS","98.00","",-99.00","NA","YES",".850000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2227","13C3-
PFHxS",".720000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".860000","",-99.00",".000500",".50",""
"NASB-CW-DUP-120618","SOP 5-369","Initial","J9988-FS","BNO","BDO-2228","13C8-
PFOS",".800000","ng/L","",-99.00","NA","","SIS","93.00","",-99.00","NA","YES",".870000","",-99.00",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","375-22-
4","PFBA",".480000","ng/L","U",".13","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","307-24-
4","PFHxA",".480000","ng/L","U",".18","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","375-85-
9","PFHpA",".480000","ng/L","U",".15","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","335-67-
1","PFOA","1.260000","ng/L","J",".17","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","375-95-
1","PFNA",".960000","ng/L","U",".25","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".96",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","335-76-
2","PFDA",".480000","ng/L","U",".15","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","2058-94-
8","PFUnA",".960000","ng/L","U",".28","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".96",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","307-55-
1","PFDaA",".480000","ng/L","U",".17","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","72629-94-
8","PFTTrDA",".480000","ng/L","U",".14","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","376-06-
7","PFTeDA",".960000","ng/L","U",".24","MDL","","T","","4.81","LOQ","YES","-99.000000","",-99.00",".000500",".48",""

00",".96",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","2355-31-
9","NMeFOSAA","1.920000","ng/L","U",".54","MDL","","T","","","4.81","LOQ","YES","-99.000000","",".260000",".000500","1.92",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","2991-50-
6","NEtFOSAA",".960000","ng/L","U",".47","MDL","","T","","","4.81","LOQ","YES","-99.000000","",".260000",".000500",".96",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","375-73-
5","PFBS",".480000","ng/L","U",".13","MDL","","T","","","4.81","LOQ","YES","-99.000000","",".260000",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","355-46-
4","PFHxS",".380000","ng/L","U",".11","MDL","","T","","","4.81","LOQ","YES","-99.000000","",".260000",".000500",".38",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","1763-23-
1","PFOS",".480000","ng/L","U",".18","MDL","","T","","","4.81","LOQ","YES","-99.000000","",".260000",".000500",".48",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2105","13C4-
PFBA",".870000","ng/L","","-99.00","NA","","SIS","91.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2217","13C5-
PFHxA",".860000","ng/L","","-99.00","NA","","SIS","89.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2218","13C4-
PFHpA",".940000","ng/L","","-99.00","NA","","SIS","98.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2219","13C8-
PFOA","1.040000","ng/L","","-99.00","NA","","SIS","108.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2221","13C9-
PFNA","1.110000","ng/L","","-99.00","NA","","SIS","116.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2222","13C6-
PFDA",".980000","ng/L","","-99.00","NA","","SIS","102.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2223","13C7-
PFUnA",".840000","ng/L","","-99.00","NA","","SIS","87.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2112","13C2-
PFDoA",".850000","ng/L","","-99.00","NA","","SIS","88.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2224","13C2-
PFTeDA",".730000","ng/L","","-99.00","NA","","SIS","76.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-1838","d3-
MeFOSAA","1.030000","ng/L","","-99.00","NA","","SIS","107.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-1839","d5-
EtFOSAA",".930000","ng/L","","-99.00","NA","","SIS","97.00","","-99.00","NA","YES",".960000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2226","13C3-
PFBS",".810000","ng/L","","-99.00","NA","","SIS","90.00","","-99.00","NA","YES",".890000","",".260000",".000500",".50",""
"NASB-CW-GW-FB01-120618","SOP 5-369","Initial","J9989-FS","BNO","BDO-2227","13C3-
PFHxS",".820000","ng/L","","-99.00","NA","","SIS","90.00","","-99.00","NA","YES",".910000","",".260000",".000500",".50",""

0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2218","13C4-
PFHpA",".610000","ng/L","",-99.00","NA","","SIS","70.00","",-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2219","13C8-
PFOA",".760000","ng/L","",-99.00","NA","","SIS","86.00","",-99.00","NA","YES",".880000","",".285000",".000500
",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2221","13C9-
PFNA",".920000","ng/L","",-99.00","NA","","SIS","105.00","",-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2222","13C6-
PFDA",".750000","ng/L","",-99.00","NA","","SIS","86.00","",-99.00","NA","YES",".880000","",".285000",".000500
",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2223","13C7-
PFUnA",".760000","ng/L","",-99.00","NA","","SIS","87.00","",-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2112","13C2-
PFDaA",".740000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2224","13C2-
PFTeDA",".710000","ng/L","",-99.00","NA","","SIS","81.00","",-99.00","NA","YES",".880000","",".285000",".0005
00",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-1838","d3-
MeFOSAA",".740000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".880000","",".285000",".00
0500",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-1839","d5-
EtFOSAA",".680000","ng/L","",-99.00","NA","","SIS","78.00","",-99.00","NA","YES",".880000","",".285000",".000
500",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2226","13C3-
PFBS",".750000","ng/L","",-99.00","NA","","SIS","92.00","",-99.00","NA","YES",".820000","",".285000",".000500
",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2227","13C3-
PFHxS",".640000","ng/L","",-99.00","NA","","SIS","77.00","",-99.00","NA","YES",".830000","",".285000",".00050
0",".50",""
"NASB-CW-GW-RB01-120618","SOP 5-369","Initial","J9990-FS","BNO","BDO-2228","13C8-
PFOS",".790000","ng/L","",-99.00","NA","","SIS","95.00","",-99.00","NA","YES",".840000","",".285000",".000500
",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","375-22-
4","PFBA",".380000","ng/L","J",".12","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".000500",
".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","307-24-
4","PFHxA",".440000","ng/L","U",".17","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".00050
0",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","375-85-
9","PFHpA",".440000","ng/L","U",".14","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".00050
0",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","335-67-
1","PFOA",".1330000","ng/L","J",".16","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".000500
",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","375-95-
1","PFNA",".880000","ng/L","U",".23","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".000500
",".88",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","335-76-
2","PFDA",".440000","ng/L","U",".14","MDL","","T","","4.39","LOQ","YES","-99.000000","",".285000",".000500

",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","2058-94-
8","PFUnA",".880000","ng/L","U",".25","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".00050
0",".88",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","307-55-
1","PFD0A",".440000","ng/L","U",".16","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".00050
0",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","72629-94-
8","PFTTrDA",".440000","ng/L","U",".13","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".0005
00",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","376-06-
7","PFTeDA",".880000","ng/L","U",".22","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".0005
00",".88",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","2355-31-
9","NMeFOSAA","1.750000","ng/L","U",".49","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".
000500","1.75",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","2991-50-
6","NEtFOSAA",".880000","ng/L","U",".43","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".00
0500",".88",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","375-73-
5","PFBS",".440000","ng/L","U",".11","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".000500"
",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","355-46-
4","PFHxS",".350000","ng/L","U",".10","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".000500"
",".35",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","1763-23-
1","PFOS",".440000","ng/L","U",".17","MDL","","T","","","4.39","LOQ","YES","-99.000000","",".285000",".000500"
",".44",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2105","13C4-
PFBA",".600000","ng/L","","-99.00","NA","","SIS","69.00","","-99.00","NA","YES",".880000","",".285000",".000500"
",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2217","13C5-
PFHxA",".760000","ng/L","","-99.00","NA","","SIS","87.00","","-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2218","13C4-
PFHpA",".750000","ng/L","","-99.00","NA","","SIS","86.00","","-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2219","13C8-
PFOA",".770000","ng/L","","-99.00","NA","","SIS","88.00","","-99.00","NA","YES",".880000","",".285000",".000500"
",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2221","13C9-
PFNA",".860000","ng/L","","-99.00","NA","","SIS","98.00","","-99.00","NA","YES",".880000","",".285000",".000500"
",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2222","13C6-
PFDA",".850000","ng/L","","-99.00","NA","","SIS","97.00","","-99.00","NA","YES",".880000","",".285000",".000500"
",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2223","13C7-
PFUnA",".840000","ng/L","","-99.00","NA","","SIS","96.00","","-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2112","13C2-
PFD0A",".830000","ng/L","","-99.00","NA","","SIS","95.00","","-99.00","NA","YES",".880000","",".285000",".00050
0",".50",""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2224","13C2-
PFTeDA",".760000","ng/L","","-99.00","NA","","SIS","86.00","","-99.00","NA","YES",".880000","",".285000",".0005

00",".50","""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-1838","d3-MeFOSAA",".560000","ng/L","",-99.00","NA","","SIS","63.00","",-99.00","NA","YES",".880000","",-99.00",".285000",".000500",".50","""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-1839","d5-EtFOSAA",".650000","ng/L","",-99.00","NA","","SIS","75.00","",-99.00","NA","YES",".880000","",-99.00",".285000",".000500",".50","""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2226","13C3-PFBS",".790000","ng/L","",-99.00","NA","","SIS","97.00","",-99.00","NA","YES",".820000","",-99.00",".285000",".000500",".50","""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2227","13C3-PFHxS",".690000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".830000","",-99.00",".285000",".000500",".50","""
"NASB-CW-GW01S-1218","SOP 5-369","Initial","J9991-FS","BNO","BDO-2228","13C8-PFOS",".850000","ng/L","",-99.00","NA","","SIS","101.00","",-99.00","NA","YES",".840000","",-99.00",".285000",".000500",".50","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","375-22-4","PFBA",".180000","ng/L","J",".12","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","307-24-4","PFHxA",".430000","ng/L","U",".16","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","375-85-9","PFHpA",".430000","ng/L","U",".14","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","335-67-1","PFOA","1.380000","ng/L","J",".16","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","375-95-1","PFNA",".860000","ng/L","U",".22","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".86","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","335-76-2","PFDA",".430000","ng/L","U",".14","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","2058-94-8","PFUnA",".860000","ng/L","U",".25","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".86","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","307-55-1","PFDaA",".430000","ng/L","U",".16","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","72629-94-8","PFTTrDA",".430000","ng/L","U",".13","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".43","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","376-06-7","PFTeDA",".860000","ng/L","U",".22","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".86","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","2355-31-9","NMeFOSAA","1.720000","ng/L","U",".48","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500","1.72","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","2991-50-6","NEtFOSAA",".860000","ng/L","U",".42","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500",".86","""
"NASB-CW-GW01D-1218","SOP 5-369","Initial","J9992-FS","BNO","375-73-5","PFBS",".430000","ng/L","U",".11","MDL","","T","","","4.31","LOQ","YES","-99.000000","",-99.00",".290000",".000500"

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"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "355-46-4", "PFHxS", ".430000", "ng/L", "J", ".09", "MDL", "", "T", "", "", "4.31", "LOQ", "YES", "-99.000000", "", ".290000", ".000500", ".34", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "1763-23-1", "PFOS", ".330000", "ng/L", "J", ".16", "MDL", "", "T", "", "", "4.31", "LOQ", "YES", "-99.000000", "", ".290000", ".000500", ".43", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2105", "13C4-PFBA", ".660000", "ng/L", "", "-99.00", "NA", "", "SIS", "76.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
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"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2222", "13C6-PFDA", ".780000", "ng/L", "", "-99.00", "NA", "", "SIS", "90.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
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"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2112", "13C2-PFDaA", ".790000", "ng/L", "", "-99.00", "NA", "", "SIS", "91.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2224", "13C2-PFTeDA", ".760000", "ng/L", "", "-99.00", "NA", "", "SIS", "88.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-1838", "d3-MeFOSAA", ".570000", "ng/L", "", "-99.00", "NA", "", "SIS", "66.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-1839", "d5-EtFOSAA", ".680000", "ng/L", "", "-99.00", "NA", "", "SIS", "79.00", "", "-99.00", "NA", "YES", ".860000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2226", "13C3-PFBS", ".870000", "ng/L", "", "-99.00", "NA", "", "SIS", "109.00", "", "-99.00", "NA", "YES", ".800000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2227", "13C3-PFHxS", ".580000", "ng/L", "", "-99.00", "NA", "", "SIS", "71.00", "", "-99.00", "NA", "YES", ".820000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218", "SOP 5-369", "Initial", "J9992-FS", "BNO", "BDO-2228", "13C8-PFOS", ".810000", "ng/L", "", "-99.00", "NA", "", "SIS", "98.00", "", "-99.00", "NA", "YES", ".820000", "", ".290000", ".000500", ".50", ""
"NASB-CW-GW01D-1218MS", "SOP 5-369", "Initial", "J9992MS-FS", "BNO", "375-22-4", "PFBA", "27.470000", "ng/L", "", ".12", "MDL", "", "T", "104.00", "", "4.39", "LOQ", "YES", "26.320000", "J9992MS-FS", ".285000", ".000500", ".44", ""
"NASB-CW-GW01D-1218MS", "SOP 5-369", "Initial", "J9992MS-FS", "BNO", "307-24-4", "PFHxA", "27.640000", "ng/L", "", ".17", "MDL", "", "T", "104.00", "", "4.39", "LOQ", "YES", "26.580000", "J9992MS-

FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","375-85-
9","PFHpA","25.310000","ng/L","",".14","MDL","","T","96.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","335-67-
1","PFOA","26.660000","ng/L","",".16","MDL","","T","96.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","375-95-
1","PFNA","25.500000","ng/L","",".23","MDL","","T","97.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","335-76-
2","PFDA","26.610000","ng/L","",".14","MDL","","T","101.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","2058-94-
8","PFUnA","27.220000","ng/L","",".25","MDL","","T","103.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","307-55-
1","PFDaA","27.150000","ng/L","",".16","MDL","","T","103.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","72629-94-
8","PFTTrDA","27.480000","ng/L","",".13","MDL","","T","104.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","376-06-
7","PFTeDA","27.620000","ng/L","",".22","MDL","","T","105.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","2355-31-
9","NMeFOSAA","23.020000","ng/L","",".49","MDL","","T","87.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500","1.75",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","2991-50-
6","NEtFOSAA","26.820000","ng/L","",".43","MDL","","T","102.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","375-73-
5","PFBS","24.440000","ng/L","",".11","MDL","","T","92.00","",".4.39","LOQ","YES","26.580000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","355-46-
4","PFHxS","25.280000","ng/L","",".10","MDL","","T","93.00","",".4.39","LOQ","YES","26.580000","J9992MS-
FS",".285000",".000500",".35",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","1763-23-
1","PFOS","26.490000","ng/L","",".17","MDL","","T","99.00","",".4.39","LOQ","YES","26.320000","J9992MS-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2105","13C4-
PFBA",".720000","ng/L","", "-99.00","NA","", "SIS","82.00","", "-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2217","13C5-
PFHxA",".870000","ng/L","", "-99.00","NA","", "SIS","99.00","", "-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2218","13C4-
PFHpA",".910000","ng/L","", "-99.00","NA","", "SIS","103.00","", "-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2219","13C8-
PFOA",".840000","ng/L","", "-99.00","NA","", "SIS","96.00","", "-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2221","13C9-
PFNA",".850000","ng/L","", "-99.00","NA","", "SIS","97.00","", "-99.00","NA","YES",".880000","J9992MS-

FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2222","13C6-
PFDA",".760000","ng/L","",-99.00","NA","","SIS","87.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2223","13C7-
PFUnA",".750000","ng/L","",-99.00","NA","","SIS","86.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2112","13C2-
PFDaA",".770000","ng/L","",-99.00","NA","","SIS","88.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2224","13C2-
PFTeDA",".750000","ng/L","",-99.00","NA","","SIS","86.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-1838","d3-
MeFOSAA",".780000","ng/L","",-99.00","NA","","SIS","89.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-1839","d5-
EtFOSAA",".660000","ng/L","",-99.00","NA","","SIS","75.00","",-99.00","NA","YES",".880000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2226","13C3-
PFBS",".910000","ng/L","",-99.00","NA","","SIS","111.00","",-99.00","NA","YES",".820000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2227","13C3-
PFHxS",".750000","ng/L","",-99.00","NA","","SIS","90.00","",-99.00","NA","YES",".830000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MS","SOP 5-369","Initial","J9992MS-FS","BNO","BDO-2228","13C8-
PFOS",".740000","ng/L","",-99.00","NA","","SIS","88.00","",-99.00","NA","YES",".840000","J9992MS-
FS",".285000",".000500",".50",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","375-22-
4","PFBA","27.290000","ng/L","",.12","MDL","","T","103.00","1.0","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","307-24-
4","PFHxA","27.690000","ng/L","",.17","MDL","","T","104.00",".0","4.39","LOQ","YES","26.580000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","375-85-
9","PFHpA","24.960000","ng/L","",.14","MDL","","T","95.00","1.0","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","335-67-
1","PFOA","26.450000","ng/L","",.16","MDL","","T","95.00","1.0","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","375-95-
1","PFNA","23.320000","ng/L","",.23","MDL","","T","89.00","8.6","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","335-76-
2","PFDA","25.580000","ng/L","",.14","MDL","","T","97.00","4.0","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","2058-94-
8","PFUnA","27.680000","ng/L","",.25","MDL","","T","105.00","1.9","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","307-55-
1","PFDaA","27.140000","ng/L","",.16","MDL","","T","103.00",".0","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","72629-94-
8","PFTTrDA","26.870000","ng/L","",.13","MDL","","T","102.00","1.9","4.39","LOQ","YES","26.320000","J9992MS

D-FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","376-06-
7","PFTeDA","27.110000","ng/L","",".22","MDL","","T","103.00","1.9","4.39","LOQ","YES","26.320000","J9992MS
D-FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","2355-31-
9","NMeFOSAA","26.160000","ng/L","",".49","MDL","","T","99.00","12.9","4.39","LOQ","YES","26.320000","J999
2MSD-FS",".285000",".000500","1.75",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","2991-50-
6","NEtFOSAA","25.660000","ng/L","",".43","MDL","","T","98.00","4.0","4.39","LOQ","YES","26.320000","J9992
MSD-FS",".285000",".000500",".88",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","375-73-
5","PFBS","25.150000","ng/L","",".11","MDL","","T","95.00","3.2","4.39","LOQ","YES","26.580000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","355-46-
4","PFHxS","29.430000","ng/L","",".10","MDL","","T","109.00","15.8","4.39","LOQ","YES","26.580000","J9992MS
D-FS",".285000",".000500",".35",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","1763-23-
1","PFOS","28.970000","ng/L","",".17","MDL","","T","109.00","9.6","4.39","LOQ","YES","26.320000","J9992MSD-
FS",".285000",".000500",".44",""
"NASB-CW-GW01D-1218MSD","SOP 5-369","Initial","J9992MSD-FS","BNO","BDO-2105","13C4-
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PFUnA",".680000","ng/L","",-99.00","NA","","SIS","74.00","",-99.00","NA","YES",".930000","",-99.00",".270000",".000500
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EtFOSAA",".650000","ng/L","",-99.00","NA","","SIS","70.00","",-99.00","NA","YES",".930000","",-99.00",".270000",".000500
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PFBS",".950000","ng/L","",-99.00","NA","","SIS","110.00","",-99.00","NA","YES",".860000","",-99.00",".270000",".000500
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"MW-09-22-1218","SOP 5-369","Initial","J9996-FS","BNO","BDO-2227","13C3-
PFHxS",".840000","ng/L","",-99.00","NA","","SIS","96.00","",-99.00","NA","YES",".880000","",-99.00",".270000",".000500
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PFOS",".870000","ng/L","",-99.00","NA","","SIS","98.00","",-99.00","NA","YES",".890000","",-99.00",".270000",".000500
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4","PFBA","5.260000","ng/L",".13","MDL","T","","","4.63","LOQ","YES",-99.000000",".270000",".000500",
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9","PFHpA","5.250000","ng/L",".15","MDL","T","","","4.63","LOQ","YES",-99.000000",".270000",".000500",
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8","PFUnA",".930000","ng/L","U",".27","MDL","T","","","4.63","LOQ","YES",-99.000000",".270000",".000500",
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9","NMeFOSAA","1.850000","ng/L","U",".52","MDL","","T","","","4.63","LOQ","YES","-99.000000","",".270000",".
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6","NEtFOSAA",".930000","ng/L","U",".45","MDL","","T","","","4.63","LOQ","YES","-99.000000","",".270000",".00
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5","PFBS","19.050000","ng/L","",".12","MDL","","T","","","4.63","LOQ","YES","-99.000000","",".270000",".000500
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PFOA",".820000","ng/L","","-99.00","NA","","SIS","89.00","","-99.00","NA","YES",".930000","",".270000",".000500
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EtFOSAA",".630000","ng/L","","-99.00","NA","","SIS","68.00","","-99.00","NA","YES",".930000","",".270000",".000

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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","72629-94-
8","PFTTrDA",".450000","ng/L","U",".14","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".0005
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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","376-06-
7","PFTeDA",".910000","ng/L","U",".23","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".0005
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9","NMeFOSAA","1.820000","ng/L","U",".51","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".
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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","2991-50-
6","NEtFOSAA",".910000","ng/L","U",".45","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".00
0500",".91",""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","375-73-
5","PFBS","27.410000","ng/L",".12","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".000500
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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","355-46-
4","PFHxS","45.910000","ng/L",".10","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".00050
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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","1763-23-
1","PFOS","49.180000","ng/L",".17","MDL","","T","","4.55","LOQ","YES","-99.000000",".275000",".000500

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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2217","13C5-PFHxA",".740000","ng/L","",-99.00","NA","","SIS","82.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2218","13C4-PFHpA",".770000","ng/L","",-99.00","NA","","SIS","85.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2219","13C8-PFOA",".730000","ng/L","",-99.00","NA","","SIS","81.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
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"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2222","13C6-PFDA",".730000","ng/L","",-99.00","NA","","SIS","80.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2223","13C7-PFUnA",".740000","ng/L","",-99.00","NA","","SIS","81.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2112","13C2-PFDoA",".690000","ng/L","",-99.00","NA","","SIS","75.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2224","13C2-PFTeDA",".750000","ng/L","",-99.00","NA","","SIS","83.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-1838","d3-MeFOSAA",".610000","ng/L","",-99.00","NA","","SIS","67.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-1839","d5-EtFOSAA",".620000","ng/L","",-99.00","NA","","SIS","69.00","",-99.00","NA","YES",".910000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2226","13C3-PFBS","1.030000","ng/L","",-99.00","NA","","SIS","122.00","",-99.00","NA","YES",".850000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2227","13C3-PFHxS",".800000","ng/L","",-99.00","NA","","SIS","93.00","",-99.00","NA","YES",".860000","",-99.00",".275000",".000500",".50","""
"MW-NASB-072-1218","SOP 5-369","Initial","J9998-FS","BNO","BDO-2228","13C8-PFOS",".720000","ng/L","",-99.00","NA","","SIS","83.00","",-99.00","NA","YES",".870000","",-99.00",".275000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","375-22-4","PFBA",".470000","ng/L","U",".13","MDL","","T","","","4.72","LOQ","YES","-99.000000","",-99.00",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","307-24-4","PFHxA",".470000","ng/L","U",".18","MDL","","T","","","4.72","LOQ","YES","-99.000000","",-99.00",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","375-85-9","PFHpA",".470000","ng/L","U",".15","MDL","","T","","","4.72","LOQ","YES","-99.000000","",-99.00",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","335-67-1","PFOA","1.350000","ng/L","J",".17","MDL","","T","","","4.72","LOQ","YES","-99.000000","",-99.00",".265000",".000500",".47","""

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"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","375-95-1","PFNA",".940000","ng/L","U",".25","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".94","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","335-76-2","PFDA",".470000","ng/L","U",".15","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","2058-94-8","PFUnA",".940000","ng/L","U",".27","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".94","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","307-55-1","PFDoA",".470000","ng/L","U",".17","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","72629-94-8","PFTTrDA",".470000","ng/L","U",".14","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","376-06-7","PFTeDA",".940000","ng/L","U",".24","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".94","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","2355-31-9","NMeFOSAA","1.890000","ng/L","U",".53","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500","1.89","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","2991-50-6","NEtFOSAA",".940000","ng/L","U",".46","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".94","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","375-73-5","PFBS",".470000","ng/L","U",".12","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","355-46-4","PFHxS",".380000","ng/L","U",".10","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".38","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","1763-23-1","PFOS",".470000","ng/L","U",".18","MDL","","","T","","","4.72","LOQ","YES","-99.000000","",".265000",".000500",".47","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2105","13C4-PFBA",".860000","ng/L","","","-99.00","NA","","","SIS","91.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2217","13C5-PFHxA",".850000","ng/L","","","-99.00","NA","","","SIS","90.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2218","13C4-PFHpA",".920000","ng/L","","","-99.00","NA","","","SIS","98.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2219","13C8-PFOA",".940000","ng/L","","","-99.00","NA","","","SIS","100.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2221","13C9-PFNA","1.080000","ng/L","","","-99.00","NA","","","SIS","114.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2222","13C6-PFDA","1.070000","ng/L","","","-99.00","NA","","","SIS","113.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2223","13C7-PFUnA",".920000","ng/L","","","-99.00","NA","","","SIS","97.00","","","-99.00","NA","YES",".940000","",".265000",".000500",".50","""

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"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2112","13C2-
PFDoA",".920000","ng/L","",-99.00","NA","","SIS","98.00","",-99.00","NA","YES",".940000","",".265000",".00050
0",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2224","13C2-
PFTeDA",".850000","ng/L","",-99.00","NA","","SIS","90.00","",-99.00","NA","YES",".940000","",".265000",".0005
00",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-1838","d3-
MeFOSAA",".830000","ng/L","",-99.00","NA","","SIS","88.00","",-99.00","NA","YES",".940000","",".265000",".00
0500",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-1839","d5-
EtFOSAA",".790000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".940000","",".265000",".000
500",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2226","13C3-
PFBS",".710000","ng/L","",-99.00","NA","","SIS","81.00","",-99.00","NA","YES",".880000","",".265000",".000500
",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2227","13C3-
PFHxS",".710000","ng/L","",-99.00","NA","","SIS","80.00","",-99.00","NA","YES",".890000","",".265000",".00050
0",".50",""
"NASB-09-GW-FB01-120618","SOP 5-369","Initial","J9999-FS","BNO","BDO-2228","13C8-
PFOS",".760000","ng/L","",-99.00","NA","","SIS","84.00","",-99.00","NA","YES",".900000","",".265000",".000500
",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","375-22-
4","PFBA",".450000","ng/L","U",".13","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500"
",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","307-24-
4","PFHxA",".1840000","ng/L","J",".17","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".00050
0",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","375-85-
9","PFHpA",".690000","ng/L","J",".15","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500
",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","335-67-
1","PFOA",".3380000","ng/L","J",".16","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500
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1","PFNA",".540000","ng/L","J",".24","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",
".91",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","335-76-
2","PFDA",".160000","ng/L","J",".15","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500",
".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","2058-94-
8","PFUnA",".910000","ng/L","U",".26","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".00050
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0",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","72629-94-
8","PFTTrDA",".450000","ng/L","U",".14","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".0005
00",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","376-06-
7","PFTeDA",".910000","ng/L","U",".23","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".0005
00",".91",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","2355-31-
9","NMeFOSAA",".1820000","ng/L","U",".51","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".

000500","1.82",""
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6","NEtFOSAA",".910000","ng/L","U",".45","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".00
0500",".91",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","375-73-
5","PFBS","2.870000","ng/L","J",".12","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500"
",".45",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","355-46-
4","PFHxS",".360000","ng/L","U",".10","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500"
",".36",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","1763-23-
1","PFOS","1.480000","ng/L","J",".17","MDL","","T","","","4.55","LOQ","YES","-99.000000","",".275000",".000500"
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"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2105","13C4-
PFBA",".630000","ng/L","","-99.00","NA","","SIS","69.00","","-99.00","NA","YES",".910000","",".275000",".000500"
",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2217","13C5-
PFHxA",".820000","ng/L","","-99.00","NA","","SIS","91.00","","-99.00","NA","YES",".910000","",".275000",".00050
0",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2218","13C4-
PFHpA",".860000","ng/L","","-99.00","NA","","SIS","95.00","","-99.00","NA","YES",".910000","",".275000",".00050
0",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2219","13C8-
PFOA",".860000","ng/L","","-99.00","NA","","SIS","94.00","","-99.00","NA","YES",".910000","",".275000",".000500"
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PFNA",".860000","ng/L","","-99.00","NA","","SIS","95.00","","-99.00","NA","YES",".910000","",".275000",".000500"
",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2222","13C6-
PFDA",".810000","ng/L","","-99.00","NA","","SIS","90.00","","-99.00","NA","YES",".910000","",".275000",".000500"
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"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2223","13C7-
PFUnA",".810000","ng/L","","-99.00","NA","","SIS","90.00","","-99.00","NA","YES",".910000","",".275000",".00050
0",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2112","13C2-
PFDoA",".670000","ng/L","","-99.00","NA","","SIS","74.00","","-99.00","NA","YES",".910000","",".275000",".00050
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"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2224","13C2-
PFTeDA",".660000","ng/L","","-99.00","NA","","SIS","73.00","","-99.00","NA","YES",".910000","",".275000",".0005
00",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-1838","d3-
MeFOSAA",".650000","ng/L","","-99.00","NA","","SIS","71.00","","-99.00","NA","YES",".910000","",".275000",".00
0500",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-1839","d5-
EtFOSAA",".660000","ng/L","","-99.00","NA","","SIS","73.00","","-99.00","NA","YES",".910000","",".275000",".000
500",".50",""
"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2226","13C3-
PFBS",".990000","ng/L","","-99.00","NA","","SIS","117.00","","-99.00","NA","YES",".850000","",".275000",".00050
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"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2227","13C3-
PFHxS",".850000","ng/L","","-99.00","NA","","SIS","98.00","","-99.00","NA","YES",".860000","",".275000",".00050
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"NASB-CW-GW03-1218","SOP 5-369","Initial","I0064-FS","BNO","BDO-2228","13C8-
PFOS",".730000","ng/L","","-99.00","NA","","SIS","84.00","","-99.00","NA","YES",".870000","",".275000",".000500

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11:17","12/19/2018 19:18","BNO","COA","NA","T","1.000","NA","NA","","100.000000","18-0718","18-0718","DP-18-0404","DP-18-0404","18-0718","12/08/2018 12:00","12/28/2018 13:57",""
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"112G08005-we21.PT.LT","CTO WE21, Former Naval Air Station Brunswick","MW-NASB-072-1218","12/05/2018 14:42","GW","J9998-FS","NM","SHP-181210-01",".900000","SOP 5-369","Gen Prep","Initial","12/13/2018 11:17","12/19/2018 22:34","BNO","COA","NA","T","1.000","NA","NA","","100.000000","18-0718","18-0718","DP-18-0404","DP-18-0404","18-0718","12/08/2018 12:00","12/28/2018 13:57",""
"112G08005-we21.PT.LT","CTO WE21, Former Naval Air Station Brunswick","NASB-09-GW-FB01-120618","12/06/2018 11:50","QC","J9999-FS","NM","SHP-181210-01",".900000","SOP 5-369","Gen Prep","Initial","12/13/2018 11:17","12/19/2018 18:24","BNO","COA","NA","T","1.000","NA","NA","","100.000000","18-0718","18-0718","DP-18-0404","DP-18-0404","18-0718","12/08/2018 12:00","12/28/2018 13:57",""
"112G08005-we21.PT.LT","CTO WE21, Former Naval Air Station Brunswick","NASB-CW-GW03-1218","12/09/2018 13:10","GW","I0064-FS","NM","SHP-181211-01","1.200000","SOP 5-369","Gen Prep","Initial","12/13/2018 11:17","12/19/2018 22:55","BNO","COA","NA","T","1.000","NA","NA","","100.000000","18-0718","18-0718","DP-18-0404","DP-18-0404","18-0718","12/11/2018 11:30","12/28/2018 13:57",""



TETRA TECH

INTERNAL CORRESPONDENCE

TO: J. ORIENT **DATE:** JANUARY 10, 2019

FROM: MICHELLE L. WOEBER **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – POLYFLUOROALKYL SUBSTANCES (PFAS)
FORMER NAVAL AIR STATION (NAS) BRUNSWICK, BRUNSWICK, ME
CTO WE21 PFC ASSESSMENT
SAMPLE DELIVERY GROUP (SDG) 18-0718

SAMPLES: 14/Aqueous/PFAS

MW-09-004-1218	MW-09-204-1218	MW-09-22-1218
MW-B250-07-1218	MW-NASB-072-1218	NASB-09-GW-FB01-120618
NASB-CW-DUP-120618	NASB-CW-GW-FB01-120618	NASB-CW-GW-RB01-120618
NASB-CW-GW01D-1218	NASB-CW-GW01S-1218	NASB-CW-GW02-1218
NASB-CW-GW03-1218	NASB-CW-GW04-1218	

Overview

The sample set for former NAS Brunswick, SDG 18-0718 consisted of eleven (11) aqueous environmental samples, two (2) Field Reagent Blanks (FRBs), and one (1) rinsate blank. All fourteen (14) aqueous samples were analyzed for Polyfluoroalkyl Substances (PFAS). One field duplicate pair was included in this Sample Delivery Group (SDG): NASB-CW-DUP-120618/NASB-CW-GW04-1218.

The samples were collected by Tetra Tech, Inc. on December 5-6, & 9, 2018 and analyzed by Battelle. The analyses were conducted in compliance with Department of Defense (DoD)/Department of Energy (DOE) Quality Systems Manual (QSM) for Environmental Laboratories version 5.1 PFAS using LC/MS/MS Appendix B Table B-15 (July 2017). The data was evaluated based on the following parameters:

- * • Data completeness
- * • Hold times/Sample Preservation
- * • Mass Calibration
- * • LC/MS/MS System Tuning and Performance
- * • Mass Spectral Acquisition Rate
- * • Instrument Sensitivity Check
- * • Ion Transition Check
- * • Initial/Continuing Calibrations
- Laboratory Method/Preparation Blank Results
- * • Extraction Internal Standard (Surrogate) Recoveries
- * • Injection Internal Standard Recoveries
- * • Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries
- Field Duplicate Precision
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The asterisk (*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B, and Appendix C contains the documentation to support the findings as discussed in this data

validation report. An EPA Region 1 tier II validation was performed on the data in these SDGs. The text of this report has been formulated to address only those areas affecting data quality.

PFAS

The following compound was detected in the Initial/Continuing Calibration Blanks (ICB/CCBs) at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level Limit of Quantitation (LOQ) > or < < LOQ</u>
Pentadecafluorooctanoic Acid (PFOA) ⁽¹⁾	1.57 ng/L	

⁽¹⁾ – Maximum concentration detected in the laboratory method blank, CS469PB-FS, affecting all samples.

The detected results reported for these compounds reported above the Limit of Detection (LOD) were qualified as non-detected, (U).

Field quality control blanks were not qualified for laboratory method blank contamination.

The difference between the detected results for perfluorobutanoic acid (PFBA) in the field duplicate pair exceeded 2X the LOQ. The detected results reported for PFBA in the field duplicate pair were qualified as estimated, (J), due to field duplicate imprecision.

NOTES

Detected results reported below the LOQ but above the Detection Limit (DL) were qualified as estimated, (J). Non-detected results are reported to LOD.

EXECUTIVE SUMMARY

Laboratory Performance: A contaminant was detected in the laboratory method blank.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted for one compound. Detected results below the LOQ were estimated.

TO: J. ORIENT
SDGs: 18-0718

PAGE 3

The data for these analyses were reviewed with reference to the EPA New England Environmental Data Review Supplement for Regional Data Review Elements Superfund Guidance/Procedures (April 2013), National Functional Guidelines for Organic Data Validation (January 2017), and the DoD/DOE QSM for Environmental Laboratories" (July 2017). The text of this report has been formulated to address only those areas affecting data quality.



Tetra Tech, Inc.
Michelle L. Woeber
Environmental Chemist



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results
Appendix B - Results as reported by the Laboratory
Appendix C - Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-WE21 SDG: 18-0718 FRACTION: PFAS MEDIA: WATER	NSAMPLE	MW-09-004-1218			MW-09-204-1218			MW-09-22-1218			MW-B250-07-1218		
	LAB_ID	J9997-FS			J9994-FS			J9996-FS			J9995-FS		
	SAMP_DATE	12/6/2018			12/6/2018			12/6/2018			12/6/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		0.93	U		0.91	U		0.93	U		0.89	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.85	U		1.82	U		1.85	U		1.79	U	
PENTADEC AFLUOROOCTANOIC ACID (PFOA)		18.29			1.87	U	A	11.8			31.28		
PERFLUOROBUTANESULFONIC ACID (PFBS)		19.05			0.72	J	P	2.09	J	P	2.63	J	P
PERFLUOROBUTANOIC ACID (PFBA)		5.26			0.43	J	P	0.5	J	P	1.8	J	P
PERFLUORODECANOIC ACID (PFDA)		0.46	U		0.45	U		0.46	U		0.45	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.46	U		0.45	U		0.46	U		0.45	U	
PERFLUOROHEPTANOIC ACID (PFHPA)		5.25			0.45	U		2.69	J	P	2.22	J	P
PERFLUOROHEXANESULFONIC ACID (PFHXS)		38.08			4.94			5.98			18.37		
PERFLUOROHEXANOIC ACID (PFHXA)		8.77			0.45	U		2.97	J	P	5.25		
PERFLUORONONANOIC ACID (PFNA)		0.44	J	P	0.91	U		0.3	J	P	0.89	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		38.18			0.86	J	P	1.8	J	P	16.6		
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.93	U		0.91	U		0.93	U		0.89	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.46	U		0.45	U		0.46	U		0.45	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.93	U		0.91	U		0.93	U		0.89	U	

PROJ_NO: 08005-WE21 SDG: 18-0718 FRACTION: PFAS MEDIA: WATER	NSAMPLE	MW-NASB-072-1218			NASB-09-GW-FB01-120618			NASB-CW-DUP-120618			NASB-CW-GW01D-1218		
	LAB_ID	J9998-FS			J9999-FS			J9988-FS			J9992-FS		
	SAMP_DATE	12/5/2018			12/6/2018			12/6/2018			12/6/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							NASB-CW-GW04-1218					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		0.91	U		0.94	U		0.91	U		0.86	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.82	U		1.89	U		1.82	U		1.72	U	
PENTADEC AFLUOROOCTANOIC ACID (PFOA)		56.22			1.35	J	P	2.47	U	A	1.38	U	A
PERFLUOROBUTANESULFONIC ACID (PFBS)		27.41			0.47	U		0.37	J	P	0.43	U	
PERFLUOROBUTANOIC ACID (PFBA)		7.48			0.47	U		1.57	J	GP	0.18	J	P
PERFLUORODECANOIC ACID (PFDA)		0.45	U		0.47	U		0.45	U		0.43	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.45	U		0.47	U		0.45	U		0.43	U	
PERFLUOROHEPTANOIC ACID (PFHPA)		12.3			0.47	U		0.52	J	P	0.43	U	
PERFLUOROHEXANESULFONIC ACID (PFHXS)		45.91			0.38	U		1.16	J	P	0.43	J	P
PERFLUOROHEXANOIC ACID (PFHXA)		23.6			0.47	U		0.87	J	P	0.43	U	
PERFLUORONONANOIC ACID (PFNA)		0.53	J	P	0.94	U		0.91	U		0.86	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		49.18			0.47	U		0.43	J	P	0.33	J	P
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.91	U		0.94	U		0.91	U		0.86	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.45	U		0.47	U		0.45	U		0.43	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.91	U		0.94	U		0.91	U		0.86	U	

PROJ_NO: 08005-WE21 SDG: 18-0718 FRACTION: PFAS MEDIA: WATER	NSAMPLE	NASB-CW-GW01S-1218			NASB-CW-GW02-1218			NASB-CW-GW03-1218			NASB-CW-GW04-1218		
	LAB_ID	J9991-FS			J9993-FS			I0064-FS			J9987-FS		
	SAMP_DATE	12/6/2018			12/6/2018			12/9/2018			12/6/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		0.88	U		0.91	U		0.91	U		0.94	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.75	U		1.82	U		1.82	U		1.89	U	
PENTADECALUOROOCTANOIC ACID (PFOA)		1.33	U	A	2.42	U	A	3.38	U	A	2.57	U	A
PERFLUOROBUTANESULFONIC ACID (PFBS)		0.44	U		0.45	U		2.87	J	P	0.36	J	P
PERFLUOROBUTANOIC ACID (PFBA)		0.38	J	P	1.39	J	P	0.45	U		18.39	J	G
PERFLUORODECANOIC ACID (PFDA)		0.44	U		0.45	U		0.16	J	P	0.47	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.44	U		0.45	U		0.45	U		0.47	U	
PERFLUOROHEPTANOIC ACID (PFHPA)		0.44	U		0.38	J	P	0.69	J	P	0.44	J	P
PERFLUOROHEXANESULFONIC ACID (PFHXS)		0.35	U		0.38	J	P	0.36	U		1.14	J	P
PERFLUOROHEXANOIC ACID (PFHXA)		0.44	U		1	J	P	1.84	J	P	0.8	J	P
PERFLUORONONANOIC ACID (PFNA)		0.88	U		0.91	U		0.54	J	P	0.94	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		0.44	U		0.62	J	P	1.48	J	P	0.3	J	P
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.88	U		0.91	U		0.91	U		0.94	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.44	U		0.45	U		0.45	U		0.47	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.88	U		0.91	U		0.91	U		0.94	U	

PROJ_NO: 08005-WE21 SDG: 18-0718 FRACTION: PFAS MEDIA: WATER	NSAMPLE	NASB-CW-GW-FB01-120618			NASB-CW-GW-RB01-120618		
	LAB_ID	J9989-FS			J9990-FS		
	SAMP_DATE	12/6/2018			12/6/2018		
	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)		0.96	U		0.88	U	
N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)		1.92	U		1.75	U	
PENTADEC AFLUOROOCTANOIC ACID (PFOA)		1.26	J	P	1.17	J	P
PERFLUOROBUTANESULFONIC ACID (PFBS)		0.48	U		0.44	U	
PERFLUOROBUTANOIC ACID (PFBA)		0.48	U		0.84	J	P
PERFLUORODECANOIC ACID (PFDA)		0.48	U		0.44	U	
PERFLUORODODECANOIC ACID (PFDOA)		0.48	U		0.44	U	
PERFLUOROHEPTANOIC ACID (PFHPA)		0.48	U		0.44	U	
PERFLUOROHEXANESULFONIC ACID (PFHXS)		0.38	U		0.35	U	
PERFLUOROHEXANOIC ACID (PFHXA)		0.48	U		0.34	J	P
PERFLUORONONANOIC ACID (PFNA)		0.96	U		0.88	U	
PERFLUOROOCTANESULFONIC ACID (PFOS)		0.48	U		0.44	U	
PERFLUOROTETRADECANOIC ACID (PFTEA)		0.96	U		0.88	U	
PERFLUOROTRIDECANOIC ACID (PFTRIA)		0.48	U		0.44	U	
PERFLUOROUNDECANOIC ACID (PFUNA)		0.96	U		0.88	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project No.: 100122108-CTOWE21

Client ID	NASB-CW-GW04-1218				
Battelle ID	J9987-FS				
Sample Type	SA				
Collection Date	12/06/2018				
Extraction Date	12/13/2018				
Analysis Date	12/19/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	GW				
Sample Size	0.265				
Size Unit-Basis	L				
Units	ng/L MDL LOD LOQ				
PFBA	375-22-4	18.39	0.13	0.47	4.72
PFHxA	307-24-4	0.80 J	0.18	0.47	4.72
PFHpA	375-85-9	0.44 J	0.15	0.47	4.72
PFOA	335-67-1	2.57 J	0.17	0.47	4.72
PFNA	375-95-1	0.94 U	0.25	0.94	4.72
PFDA	335-76-2	0.47 U	0.15	0.47	4.72
PFUnA	2058-94-8	0.94 U	0.27	0.94	4.72
PFDaA	307-55-1	0.47 U	0.17	0.47	4.72
PFTeDA	72629-94-8	0.47 U	0.14	0.47	4.72
PFTeDA	376-06-7	0.94 U	0.24	0.94	4.72
NMeFOSAA	2355-31-9	1.89 U	0.53	1.89	4.72
NEtFOSAA	2991-50-6	0.94 U	0.46	0.94	4.72
PFBS	375-73-5	0.36 J	0.12	0.47	4.72
PFHxS	355-46-4	1.14 J	0.10	0.38	4.72
PFOS	1763-23-1	0.30 J	0.18	0.47	4.72

Surrogate Recoveries (%)

13C4-PFBA	79
13C5-PFHxA	97
13C4-PFHpA	113
13C8-PFOA	108
13C9-PFNA	108
13C6-PFDA	105
13C7-PFUnA	99
13C2-PFDaA	95
13C2-PFTeDA	84
d3-MeFOSAA	85
d5-EtFOSAA	86
13C3-PFBS	109
13C3-PFHxS	95
13C8-PFOS	97



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-DUP-120618

Battelle ID J9988-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.275

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	1.57 J	0.13	0.45	4.55
PFHxA	307-24-4	0.87 J	0.17	0.45	4.55
PFHpA	375-85-9	0.52 J	0.15	0.45	4.55
PFOA	335-67-1	2.47 J	0.16	0.45	4.55
PFNA	375-95-1	0.91 U	0.24	0.91	4.55
PFDA	335-76-2	0.45 U	0.15	0.45	4.55
PFUnA	2058-94-8	0.91 U	0.26	0.91	4.55
PFDaA	307-55-1	0.45 U	0.16	0.45	4.55
PFTeDA	72629-94-8	0.45 U	0.14	0.45	4.55
PFTeDA	376-06-7	0.91 U	0.23	0.91	4.55
NMeFOSAA	2355-31-9	1.82 U	0.51	1.82	4.55
NEtFOSAA	2991-50-6	0.91 U	0.45	0.91	4.55
PFBS	375-73-5	0.37 J	0.12	0.45	4.55
PFHxS	355-46-4	1.16 J	0.10	0.36	4.55
PFOS	1763-23-1	0.43 J	0.17	0.45	4.55

Surrogate Recoveries (%)

13C4-PFBA	79
13C5-PFHxA	87
13C4-PFHpA	92
13C8-PFOA	86
13C9-PFNA	90
13C6-PFDA	83
13C7-PFUnA	85
13C2-PFDaA	84
13C2-PFTeDA	84
d3-MeFOSAA	70
d5-EtFOSAA	72
13C3-PFBS	98
13C3-PFHxS	84
13C8-PFOS	93

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW-FB01-120618

Battelle ID J9989-FS
 Sample Type SA
 Collection Date 12/06/2018
 Extraction Date 12/13/2018
 Analysis Date 12/19/2018
 Analytical Instrument Sciex 5500 LC/MS/MS
 % Moisture NA
 Matrix QC
 Sample Size 0.260
 Size Unit-Basis L
 Units ng/L MDL LOD LOQ

PFBA	375-22-4	0.48 U	0.13	0.48	4.81
PFHxA	307-24-4	0.48 U	0.18	0.48	4.81
PFHpA	375-85-9	0.48 U	0.15	0.48	4.81
PFOA	335-67-1	1.26 J	0.17	0.48	4.81
PFNA	375-95-1	0.96 U	0.25	0.96	4.81
PFDA	335-76-2	0.48 U	0.15	0.48	4.81
PFUnA	2058-94-8	0.96 U	0.28	0.96	4.81
PFDaA	307-55-1	0.48 U	0.17	0.48	4.81
PFTeDA	72629-94-8	0.48 U	0.14	0.48	4.81
PFTeDA	376-06-7	0.96 U	0.24	0.96	4.81
NMeFOSAA	2355-31-9	1.92 U	0.54	1.92	4.81
NEtFOSAA	2991-50-6	0.96 U	0.47	0.96	4.81
PFBS	375-73-5	0.48 U	0.13	0.48	4.81
PFHxS	355-46-4	0.38 U	0.11	0.38	4.81
PFOS	1763-23-1	0.48 U	0.18	0.48	4.81

Surrogate Recoveries (%)

13C4-PFBA	91
13C5-PFHxA	89
13C4-PFHpA	98
13C8-PFOA	108
13C9-PFNA	116
13C6-PFDA	102
13C7-PFUnA	87
13C2-PFDaA	88
13C2-PFTeDA	76
d3-MeFOSAA	107
d5-EtFOSAA	97
13C3-PFBS	90
13C3-PFHxS	90
13C8-PFOS	105

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

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Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW-RB01-120618

Battelle ID J9990-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix QC

Sample Size 0.285

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.84 J	0.12	0.44	4.39
PFHxA	307-24-4	0.34 J	0.17	0.44	4.39
PFHpA	375-85-9	0.44 U	0.14	0.44	4.39
PFOA	335-67-1	1.17 J	0.16	0.44	4.39
PFNA	375-95-1	0.88 U	0.23	0.88	4.39
PFDA	335-76-2	0.44 U	0.14	0.44	4.39
PFUnA	2058-94-8	0.88 U	0.25	0.88	4.39
PFDaA	307-55-1	0.44 U	0.16	0.44	4.39
PFTeDA	72629-94-8	0.44 U	0.13	0.44	4.39
PFTeDA	376-06-7	0.88 U	0.22	0.88	4.39
NMeFOSAA	2355-31-9	1.75 U	0.49	1.75	4.39
NEtFOSAA	2991-50-6	0.88 U	0.43	0.88	4.39
PFBS	375-73-5	0.44 U	0.11	0.44	4.39
PFHxS	355-46-4	0.35 U	0.10	0.35	4.39
PFOS	1763-23-1	0.44 U	0.17	0.44	4.39

Surrogate Recoveries (%)

13C4-PFBA	52
13C5-PFHxA	63
13C4-PFHpA	70
13C8-PFOA	86
13C9-PFNA	105
13C6-PFDA	86
13C7-PFUnA	87
13C2-PFDaA	84
13C2-PFTeDA	81
d3-MeFOSAA	84
d5-EtFOSAA	78
13C3-PFBS	92
13C3-PFHxS	77
13C8-PFOS	95

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

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Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW01S-1218

Battelle ID J9991-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.285

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.38 J	0.12	0.44	4.39
PFHxA	307-24-4	0.44 U	0.17	0.44	4.39
PFHpA	375-85-9	0.44 U	0.14	0.44	4.39
PFOA	335-67-1	1.33 J	0.16	0.44	4.39
PFNA	375-95-1	0.88 U	0.23	0.88	4.39
PFDA	335-76-2	0.44 U	0.14	0.44	4.39
PFUnA	2058-94-8	0.88 U	0.25	0.88	4.39
PFDaA	307-55-1	0.44 U	0.16	0.44	4.39
PFTeDA	72629-94-8	0.44 U	0.13	0.44	4.39
PFTeDA	376-06-7	0.88 U	0.22	0.88	4.39
NMeFOSAA	2355-31-9	1.75 U	0.49	1.75	4.39
NEtFOSAA	2991-50-6	0.88 U	0.43	0.88	4.39
PFBS	375-73-5	0.44 U	0.11	0.44	4.39
PFHxS	355-46-4	0.35 U	0.10	0.35	4.39
PFOS	1763-23-1	0.44 U	0.17	0.44	4.39

Surrogate Recoveries (%)

13C4-PFBA	69
13C5-PFHxA	87
13C4-PFHpA	86
13C8-PFOA	88
13C9-PFNA	98
13C6-PFDA	97
13C7-PFUnA	96
13C2-PFDaA	95
13C2-PFTeDA	86
d3-MeFOSAA	63
d5-EtFOSAA	75
13C3-PFBS	97
13C3-PFHxS	84
13C8-PFOS	101

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

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Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW01D-1218

Battelle ID J9992-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.290

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.18 J	0.12	0.43	4.31
PFHxA	307-24-4	0.43 U	0.16	0.43	4.31
PFHpA	375-85-9	0.43 U	0.14	0.43	4.31
PFOA	335-67-1	1.38 J	0.16	0.43	4.31
PFNA	375-95-1	0.86 U	0.22	0.86	4.31
PFDA	335-76-2	0.43 U	0.14	0.43	4.31
PFUnA	2058-94-8	0.86 U	0.25	0.86	4.31
PFDaA	307-55-1	0.43 U	0.16	0.43	4.31
PFTeDA	72629-94-8	0.43 U	0.13	0.43	4.31
PFTeDA	376-06-7	0.86 U	0.22	0.86	4.31
NMeFOSAA	2355-31-9	1.72 U	0.48	1.72	4.31
NEtFOSAA	2991-50-6	0.86 U	0.42	0.86	4.31
PFBS	375-73-5	0.43 U	0.11	0.43	4.31
PFHxS	355-46-4	0.43 J	0.09	0.34	4.31
PFOS	1763-23-1	0.33 J	0.16	0.43	4.31

Surrogate Recoveries (%)

13C4-PFBA	76
13C5-PFHxA	90
13C4-PFHpA	107
13C8-PFOA	94
13C9-PFNA	107
13C6-PFDA	90
13C7-PFUnA	92
13C2-PFDaA	91
13C2-PFTeDA	88
d3-MeFOSAA	66
d5-EtFOSAA	79
13C3-PFBS	109
13C3-PFHxS	71
13C8-PFOS	98

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW02-1218

Battelle ID J9993-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.275

Size Unit-Basis L

Units ng/L MDL LOD LOQ

PFBA	375-22-4	1.39 J	0.13	0.45	4.55
PFHxA	307-24-4	1.00 J	0.17	0.45	4.55
PFHpA	375-85-9	0.38 J	0.15	0.45	4.55
PFOA	335-67-1	2.42 J	0.16	0.45	4.55
PFNA	375-95-1	0.91 U	0.24	0.91	4.55
PFDA	335-76-2	0.45 U	0.15	0.45	4.55
PFUnA	2058-94-8	0.91 U	0.26	0.91	4.55
PFDaA	307-55-1	0.45 U	0.16	0.45	4.55
PFTeDA	72629-94-8	0.45 U	0.14	0.45	4.55
PFTeDA	376-06-7	0.91 U	0.23	0.91	4.55
NMeFOSAA	2355-31-9	1.82 U	0.51	1.82	4.55
NEtFOSAA	2991-50-6	0.91 U	0.45	0.91	4.55
PFBS	375-73-5	0.45 U	0.12	0.45	4.55
PFHxS	355-46-4	0.38 J	0.10	0.36	4.55
PFOS	1763-23-1	0.62 J	0.17	0.45	4.55

Surrogate Recoveries (%)

13C4-PFBA	70
13C5-PFHxA	95
13C4-PFHpA	89
13C8-PFOA	89
13C9-PFNA	99
13C6-PFDA	89
13C7-PFUnA	90
13C2-PFDaA	96
13C2-PFTeDA	67
d3-MeFOSAA	88
d5-EtFOSAA	91
13C3-PFBS	100
13C3-PFHxS	73
13C8-PFOS	84

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID MW-09-204-1218

Battelle ID J9994-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.275

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.43 J	0.13	0.45	4.55
PFHxA	307-24-4	0.45 U	0.17	0.45	4.55
PFHpA	375-85-9	0.45 U	0.15	0.45	4.55
PFOA	335-67-1	1.87 J	0.16	0.45	4.55
PFNA	375-95-1	0.91 U	0.24	0.91	4.55
PFDA	335-76-2	0.45 U	0.15	0.45	4.55
PFUnA	2058-94-8	0.91 U	0.26	0.91	4.55
PFDoA	307-55-1	0.45 U	0.16	0.45	4.55
PFTeDA	72629-94-8	0.45 U	0.14	0.45	4.55
PFTeDA	376-06-7	0.91 U	0.23	0.91	4.55
NMeFOSAA	2355-31-9	1.82 U	0.51	1.82	4.55
NEtFOSAA	2991-50-6	0.91 U	0.45	0.91	4.55
PFBS	375-73-5	0.72 J	0.12	0.45	4.55
PFHxS	355-46-4	4.94	0.10	0.36	4.55
PFOS	1763-23-1	0.86 J	0.17	0.45	4.55

Surrogate Recoveries (%)

13C4-PFBA	69
13C5-PFHxA	80
13C4-PFHpA	86
13C8-PFOA	89
13C9-PFNA	101
13C6-PFDA	85
13C7-PFUnA	80
13C2-PFDoA	84
13C2-PFTeDA	81
d3-MeFOSAA	81
d5-EtFOSAA	73
13C3-PFBS	108
13C3-PFHxS	98
13C8-PFOS	107

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID MW-B250-07-1218

Battelle ID J9995-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.280

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	1.80 J	0.13	0.45	4.46
PFHxA	307-24-4	5.25	0.17	0.45	4.46
PFHpA	375-85-9	2.22 J	0.14	0.45	4.46
PFOA	335-67-1	31.28	0.16	0.45	4.46
PFNA	375-95-1	0.89 U	0.23	0.89	4.46
PFDA	335-76-2	0.45 U	0.14	0.45	4.46
PFUnA	2058-94-8	0.89 U	0.26	0.89	4.46
PFDoA	307-55-1	0.45 U	0.16	0.45	4.46
PFTeDA	72629-94-8	0.45 U	0.13	0.45	4.46
PFTeDA	376-06-7	0.89 U	0.22	0.89	4.46
NMeFOSAA	2355-31-9	1.79 U	0.50	1.79	4.46
NEtFOSAA	2991-50-6	0.89 U	0.44	0.89	4.46
PFBS	375-73-5	2.63 J	0.12	0.45	4.46
PFHxS	355-46-4	18.37	0.10	0.36	4.46
PFOS	1763-23-1	16.60	0.17	0.45	4.46

Surrogate Recoveries (%)

13C4-PFBA	74
13C5-PFHxA	88
13C4-PFHpA	93
13C8-PFOA	85
13C9-PFNA	96
13C6-PFDA	95
13C7-PFUnA	86
13C2-PFDoA	81
13C2-PFTeDA	81
d3-MeFOSAA	71
d5-EtFOSAA	69
13C3-PFBS	102
13C3-PFHxS	93
13C8-PFOS	102

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project No.: 100122108-CTOWE21

Client ID MW-09-22-1218

Battelle ID J9996-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.270

Size Unit-Basis L

Units ng/L MDL LOD LOQ

PFBA	375-22-4	0.50 J	0.13	0.46	4.63
PFHxA	307-24-4	2.97 J	0.18	0.46	4.63
PFHpA	375-85-9	2.69 J	0.15	0.46	4.63
PFOA	335-67-1	11.80 B	0.17	0.46	4.63
PFNA	375-95-1	0.30 J	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDaA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	2.09 J	0.12	0.46	4.63
PFHxS	355-46-4	5.98	0.10	0.37	4.63
PFOS	1763-23-1	1.80 J	0.18	0.46	4.63

Surrogate Recoveries (%)

13C4-PFBA	63
13C5-PFHxA	78
13C4-PFHpA	85
13C8-PFOA	90
13C9-PFNA	93
13C6-PFDA	86
13C7-PFUnA	74
13C2-PFDaA	62
13C2-PFTeDA	60
d3-MeFOSAA	73
d5-EtFOSAA	70
13C3-PFBS	110
13C3-PFHxS	96
13C8-PFOS	98



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID MW-09-004-1218

Battelle ID J9997-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.270

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	5.26	0.13	0.46	4.63
PFHxA	307-24-4	8.77	0.18	0.46	4.63
PFHpA	375-85-9	5.25	0.15	0.46	4.63
PFOA	335-67-1	18.29	0.17	0.46	4.63
PFNA	375-95-1	0.44 J	0.24	0.93	4.63
PFDA	335-76-2	0.46 U	0.15	0.46	4.63
PFUnA	2058-94-8	0.93 U	0.27	0.93	4.63
PFDaA	307-55-1	0.46 U	0.17	0.46	4.63
PFTeDA	72629-94-8	0.46 U	0.14	0.46	4.63
PFTeDA	376-06-7	0.93 U	0.23	0.93	4.63
NMeFOSAA	2355-31-9	1.85 U	0.52	1.85	4.63
NEtFOSAA	2991-50-6	0.93 U	0.45	0.93	4.63
PFBS	375-73-5	19.05	0.12	0.46	4.63
PFHxS	355-46-4	38.08	0.10	0.37	4.63
PFOS	1763-23-1	38.18	0.18	0.46	4.63

Surrogate Recoveries (%)

13C4-PFBA	53
13C5-PFHxA	87
13C4-PFHpA	97
13C8-PFOA	89
13C9-PFNA	99
13C6-PFDA	92
13C7-PFUnA	83
13C2-PFDaA	76
13C2-PFTeDA	69
d3-MeFOSAA	78
d5-EtFOSAA	68
13C3-PFBS	99
13C3-PFHxS	87
13C8-PFOS	80

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID MW-NASB-072-1218

Battelle ID J9998-FS

Sample Type SA

Collection Date 12/05/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.275

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	7.48	0.13	0.45	4.55
PFHxA	307-24-4	23.60	0.17	0.45	4.55
PFHpA	375-85-9	12.30	0.15	0.45	4.55
PFOA	335-67-1	56.22	0.16	0.45	4.55
PFNA	375-95-1	0.53 J	0.24	0.91	4.55
PFDA	335-76-2	0.45 U	0.15	0.45	4.55
PFUnA	2058-94-8	0.91 U	0.26	0.91	4.55
PFDaA	307-55-1	0.45 U	0.16	0.45	4.55
PFTeDA	72629-94-8	0.45 U	0.14	0.45	4.55
PFTeDA	376-06-7	0.91 U	0.23	0.91	4.55
NMeFOSAA	2355-31-9	1.82 U	0.51	1.82	4.55
NEtFOSAA	2991-50-6	0.91 U	0.45	0.91	4.55
PFBS	375-73-5	27.41	0.12	0.45	4.55
PFHxS	355-46-4	45.91	0.10	0.36	4.55
PFOS	1763-23-1	49.18	0.17	0.45	4.55

Surrogate Recoveries (%)

13C4-PFBA	71
13C5-PFHxA	82
13C4-PFHpA	85
13C8-PFOA	81
13C9-PFNA	85
13C6-PFDA	80
13C7-PFUnA	81
13C2-PFDaA	75
13C2-PFTeDA	83
d3-MeFOSAA	67
d5-EtFOSAA	69
13C3-PFBS	122
13C3-PFHxS	93
13C8-PFOS	83

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-09-GW-FB01-120618

Battelle ID J9999-FS

Sample Type SA

Collection Date 12/06/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix QC

Sample Size 0.265

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.47 U	0.13	0.47	4.72
PFHxA	307-24-4	0.47 U	0.18	0.47	4.72
PFHpA	375-85-9	0.47 U	0.15	0.47	4.72
PFOA	335-67-1	1.35 J	0.17	0.47	4.72
PFNA	375-95-1	0.94 U	0.25	0.94	4.72
PFDA	335-76-2	0.47 U	0.15	0.47	4.72
PFUnA	2058-94-8	0.94 U	0.27	0.94	4.72
PFDaA	307-55-1	0.47 U	0.17	0.47	4.72
PFTeDA	72629-94-8	0.47 U	0.14	0.47	4.72
PFTeDA	376-06-7	0.94 U	0.24	0.94	4.72
NMeFOSAA	2355-31-9	1.89 U	0.53	1.89	4.72
NEtFOSAA	2991-50-6	0.94 U	0.46	0.94	4.72
PFBS	375-73-5	0.47 U	0.12	0.47	4.72
PFHxS	355-46-4	0.38 U	0.10	0.38	4.72
PFOS	1763-23-1	0.47 U	0.18	0.47	4.72

Surrogate Recoveries (%)

13C4-PFBA	91
13C5-PFHxA	90
13C4-PFHpA	98
13C8-PFOA	100
13C9-PFNA	114
13C6-PFDA	113
13C7-PFUnA	97
13C2-PFDaA	98
13C2-PFTeDA	90
d3-MeFOSAA	88
d5-EtFOSAA	84
13C3-PFBS	81
13C3-PFHxS	80
13C8-PFOS	84

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID NASB-CW-GW03-1218

Battelle ID I0064-FS

Sample Type SA

Collection Date 12/09/2018

Extraction Date 12/13/2018

Analysis Date 12/19/2018

Analytical Instrument Sciex 5500 LC/MS/MS

% Moisture NA

Matrix GW

Sample Size 0.275

Size Unit-Basis L

Units ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.45 U	0.13	0.45	4.55
PFHxA	307-24-4	1.84 J	0.17	0.45	4.55
PFHpA	375-85-9	0.69 J	0.15	0.45	4.55
PFOA	335-67-1	3.38 J	0.16	0.45	4.55
PFNA	375-95-1	0.54 J	0.24	0.91	4.55
PFDA	335-76-2	0.16 J	0.15	0.45	4.55
PFUnA	2058-94-8	0.91 U	0.26	0.91	4.55
PFDaA	307-55-1	0.45 U	0.16	0.45	4.55
PFTeDA	72629-94-8	0.45 U	0.14	0.45	4.55
PFTeDA	376-06-7	0.91 U	0.23	0.91	4.55
NMeFOSAA	2355-31-9	1.82 U	0.51	1.82	4.55
NEtFOSAA	2991-50-6	0.91 U	0.45	0.91	4.55
PFBS	375-73-5	2.87 J	0.12	0.45	4.55
PFHxS	355-46-4	0.36 U	0.10	0.36	4.55
PFOS	1763-23-1	1.48 J	0.17	0.45	4.55

Surrogate Recoveries (%)

13C4-PFBA	69
13C5-PFHxA	91
13C4-PFHpA	95
13C8-PFOA	94
13C9-PFNA	95
13C6-PFDA	90
13C7-PFUnA	90
13C2-PFDaA	74
13C2-PFTeDA	73
d3-MeFOSAA	71
d5-EtFOSAA	73
13C3-PFBS	117
13C3-PFHxS	98
13C8-PFOS	84

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm

APPENDIX C

SUPPORT DOCUMENTATION

NAS JACKSONVILLE
SDG 18-0718

$$PFAS \text{ Concentration} = \frac{[(PA - b)/m] * C_{IS} * PIV * DF}{S}$$

Where:

PA	Area of target analyte/ area of internal standard
b	y Intercept from calibration curve
C _{IS}	Concentration of internal standard (ng/L)
m	Slope of calibration
DF	Dilution factor
S	Sample Size
PIV	Pre-injection volume (L)

Target Analyte	PFOA
Sample ID	MW-NASB-072-1218
Laboratory Sample ID	J9998
Sample Size (L)	0.275
Dilution Factor	1
PIV (L)	0.001
PFOA Area	4380882.28
IS Area	64387.12
IS Amount (ng/L)	250
Calibration Curve	y = 1.10161 x + -0.09167
Concentration (ng/L)	56.22

$$(((4380882.28/64387.12)+0.09167)/1.10161)*250*0.001*1/0.275$$

NAS JACKSONVILLE
SDG 18-0718

$$\text{Surrogate Concentration} = [(PA)/m] * C_{IS}$$

Where:

PA Area of target analyte/ area of internal standard

C_{IS} Concentration of internal standard (ng/L)

m Slope of calibration

Surrogate spike amount 250

Surrogate 13C2-PFDoA

Sample ID MW-NASB-072-1218

Laboratory Sample ID J9998

13C2-PFDoA Area 62932.08

IS Area 82941.89

IS Amount (ng/L) 250

Calibration Curve $y = 1.00659 x$

Concentration (ng/L) 188.45

$$((56258.36/66168.81)/1.00659)*250$$

Surrogate Recovery (%)

Reported Recovery (%)

$$((188.45/250)*100)$$

75.4

75

Sample Name	J9998-FS(0)	Injection Vial	31
Sample ID	MW-NASB-072-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:34:13	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	3284771.00	7536.90	547.5	false	13C3-PFBS	34753.22	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	964401.80	7432.83	409.9	false	13C3-PFBS	34753.22	232.25	PFBS	0.290	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	1462737.84	6490.94	121.1	false	13C5-PFHxA	57816.30	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	98501.10	5725.50	125.7	false	13C5-PFHxA	57816.30	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	767242.67	3381.96	164.2	false	13C4-PFHpA	65241.55	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.18	14733.13	3342.85	107.6	false	13C4-PFHpA	65241.55	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	5379038.34	12624.09	372.1	false	13C3-PFHxS	26639.03	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	1561781.56	12980.61	358.6	false	13C3-PFHxS	26639.03	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.56	4380882.28	15461.84	295.0	false	13C8-PFOA	64387.12	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	353743.80	18738.11	294.0	false	13C8-PFOA	64387.12	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	2.94	38998.27	146.31	65.9	true	13C9-PFNA	63859.59	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.94	14249.49	162.14	61.0	false	13C9-PFNA	63859.59	250.00	PFNA	0.370	0.325	ü
PFOS_1	499.0 / 80.0	2.88	6032472.83	13523.29	228.7	false	13C8-PFOS	22210.46	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	944373.67	11953.34	268.5	false	13C8-PFOS	22210.46	239.25	PFOS	0.160	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	63905.04	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	63905.04	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	63050.36	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	63050.36	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	62932.08	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	62932.08	250.00	PFDoA	N/A	0.182	ü
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1790.13	< 0	37.6	false	13C2-PFTeDA	70877.41	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12853.22	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12853.22	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13788.70	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13788.70	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	1.04	707358.06	2057.61	467.2	true	13C4-PFBA	61797.84	250.00				



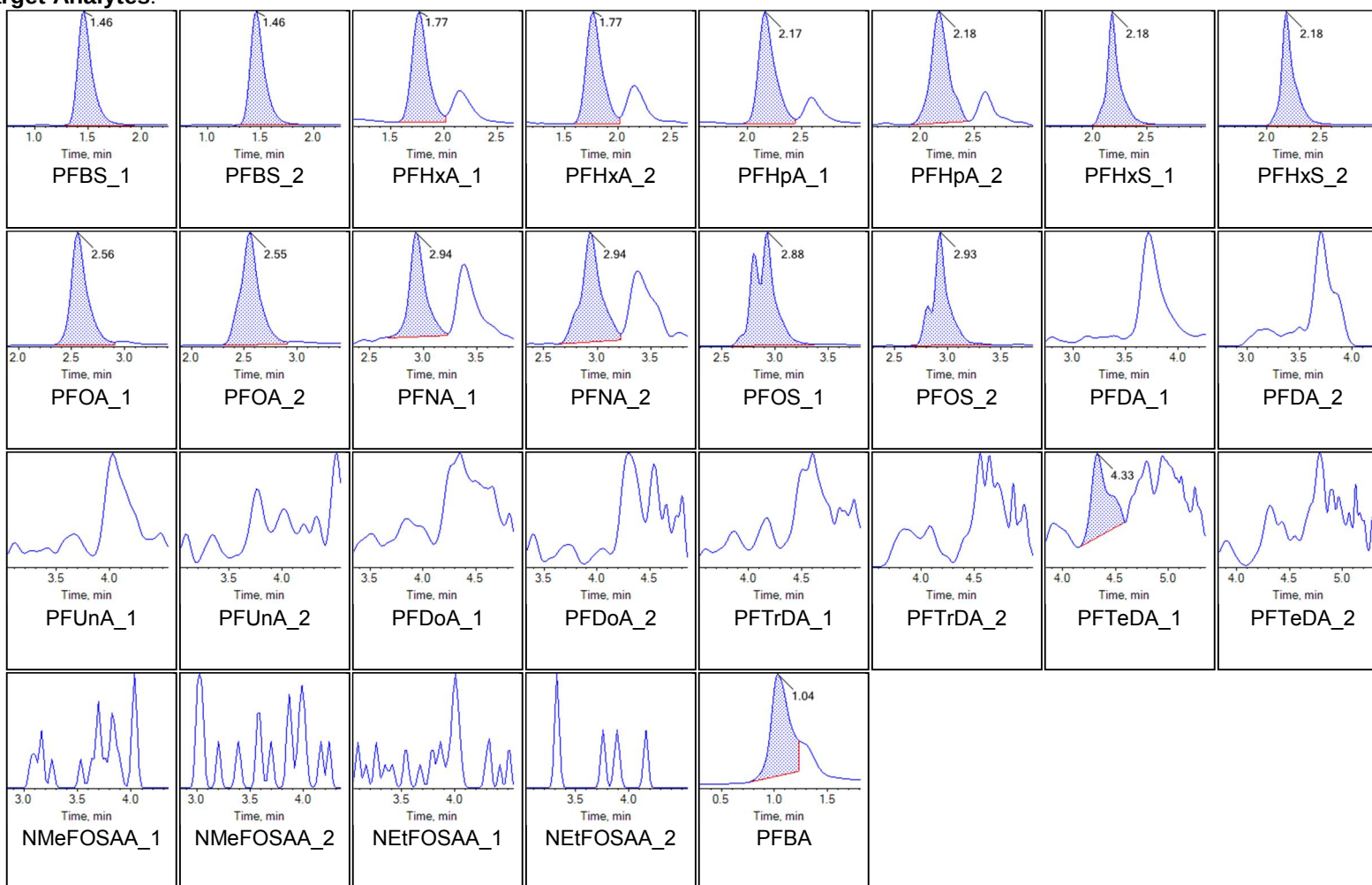
Chromatogram Report

Created with Analyst Reporter
Printed: 27/12/2018 11:58:34 AM

Sample Name	J9998-FS(0)	Injection Vial	31
Sample ID	MW-NASB-072-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:34:13	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718

Chromatograms

Target Analytes:

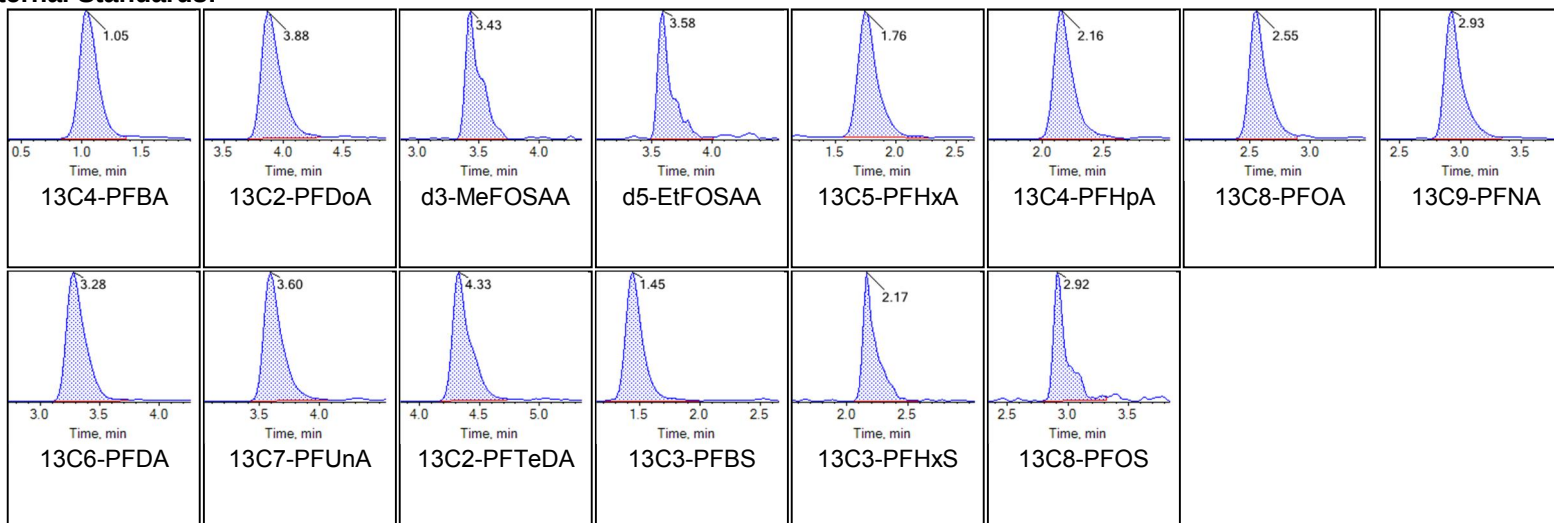




Chromatogram Report

Created with Analyst Reporter
Printed: 27/12/2018 11:58:34 AM

Internal Standards:





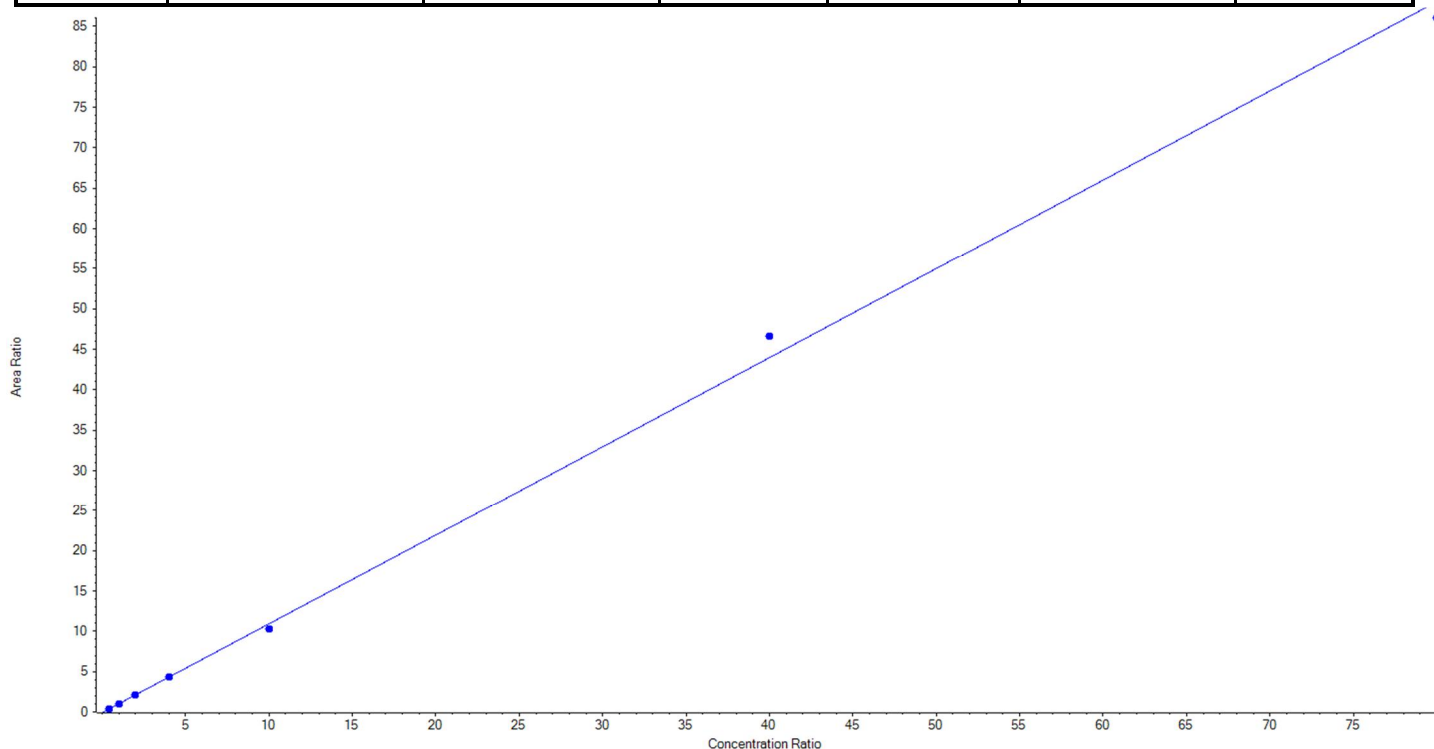
Calibration Summary Report

Created with Analyst Reporter
Printed: 20/12/2018 1:38:02 PM

Analyte Name	PFOA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	413.0 / 369.0	Result Table	18-0718
Internal Standard	13C8-PFOA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.10161x + -0.09167$ ($r = 0.99913$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	100.122414	100.1
30	KF35	L2	True	250.00	254.398914	101.8
31	KF36	L3	True	500.00	501.814189	100.4
32	KF37	L4	True	1000.00	1000.559694	100.1
33	KF38	L5	True	2500.00	2350.090672	94.0
34	KF39	L6	True	10000.00	10596.103107	106.0
35	KF40	L7	True	20000.00	19546.911009	97.7



NAS JACKSONVILLE
SDG 18-0718

LABORATORY CONTROL SAMPLE

	Result	Target	Calculation	Recovery	Reported Recovery	QC Limits
PFHxA	10.58 ng/L	10.10 ng/L	$10.58/10.1*100$	104.7524752	105	51-137

ICC RECOVERY (%)	Result	Target	Calculation	Recovery	Reported Recovery
PFBS	974.370061 ng/L	1010.00 ng/L	$974.370061/1010*100$	96.47228327	96.47

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

	Result	Target	Calculation	Recovery	Reported Recovery	QC Limits	RPD	RPD Limit
NASB-CW-GW01D-1218 0.43U ng/L								
PFHxA MS	27.64 ng/L	26.58 ng/L	$27.64/26.58*100$	103.9879609	104	51-137	NA	
PFHxA MSD	27.69	26.58	$27.69/26.58*100$	104.1760722	104		0	30

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%
PENTADECAFLUOROOCTANOIC ACID (PFOA)	2.57	2.47	4.72	3.97	FALSE
PERFLUOROBUTANESULFONIC ACID (PFBS)	0.36	0.37	4.72	2.74	FALSE
PERFLUOROBUTANOIC ACID (PFBA)	18.39	1.57	4.72	168.54	TRUE
PERFLUOROHEPTANOIC ACID (PFHPA)	0.44	0.52	4.72	16.67	FALSE
PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.14	1.16	4.72	1.74	FALSE
PERFLUOROHEXANOIC ACID (PFHXA)	0.8	0.87	4.72	8.38	FALSE
PERFLUOROOCTANESULFONIC ACID (PFOS)	0.3	0.43	4.72	35.62	TRUE

SDG 18-0718
NASB-CW-DUP-120618/NASB-CW-GW04-1218

ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2xRL
FALSE	FALSE	FALSE
FALSE	FALSE	FALSE
TRUE	FALSE	TRUE
FALSE	FALSE	FALSE
FALSE	FALSE	FALSE
FALSE	FALSE	FALSE
FALSE	FALSE	FALSE

NO. 001

[illegible]

NO. 001

Project No: 112G08005-WE21		Facility: Former NAS Brunswick		Project Manager: Jeff Orient						Phone: (412) 921-7090							Laboratory Name and Contact: Battelle: Jonathan Thorn							
Samplers: Kevin Schwab				Field Ops. Leader: Kevin Schwab						Phone: (814) 227-9620							Address: 141 Longwater Drive Suite 202							
				Fed Ex Airbill Number:														City, State, Zip: Norwell, MA 02061						
				Container Type: Plastic (P) or Glass (G)						P														
						Preservative Used:						ICE												
Date Year:	Time	Sample ID	Location ID	Top Depth (FT)	Bottom Depth (FT)	Matrix (GW, SO, SW, QC)	Grab, Composite (G, C)	Total No. of Containers	ANALYSIS	USEPA 537 M														Comments
12/6	1125	MW-09-204-1218	Site 9	--	--	GW	G	2	/ / / / /	J9994														
12/6	1130	MW-B250-07-1218	Site 9	--	--	GW	G	2	/ / / / /	J9995														
12/6	0935	MW-09-22-1218	Site 9	--	--	GW	G	2	/ / / / /	J9996														
2/6	0815	MW-09-004-1218	Site 9	--	--	GW	G	2	/ / / / /	J9997														
12/5	1442	MW-NASB-072-1218	Site 9	--	--	GW	G	2	/ / / / /	J9998														
12/6	1150	NASB-09-GW-FBO-120618	Site 9	-	-	QC	G	2	/ / / / /	J9999														
1. Relinquished By: Kevin Schwab				Date: 12/7/2018		Time: 1700		1. Received By: Fez Ex				Date: 12/7/2018		Time: 1700										
2. Relinquished By: [Signature]				Date: 12/6/2018		Time: 1515		2. Received By: M Battelle				Date: 12-8-18		Time: 1200										
Comments: Standard TAT																								

NO. 001

Page 1 of 1

[illegible]



It can be done

ShpNo SHP-181210-01

Battelle Project No: 8-CTOWE21

Sample Receipt Form Details

Approved: ☐ Authorized ☐

Project Number: 112G08005-WE21 Client: Tetra Tech

Received by: Schumitz, Matt Date/Time Received: Saturday, December 08, 2018 12:00 PM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
J9987	NASB-CW-GW04-1218	12/06/18 13:25	12/10/18 10:58	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9988	NASB-CW-DUP-120618	12/06/18 0:00	12/10/18 10:58	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9989	NASB-CW-GW-FB01-120618	12/06/18 16:00	12/10/18 10:58	2	QC	0.9	NA	NA	NA	R0119 (NA)			
J9990	NASB-CW-GW-RB01-120618	12/06/18 16:05	12/10/18 10:59	2	QC	0.9	NA	NA	NA	R0119 (NA)			
J9991	NASB-CW-GW01S-1218	12/06/18 14:45	12/10/18 11:00	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9992	NASB-CW-GW01D-1218	12/06/18 13:30	12/10/18 11:00	6	GW	0.9	NA	NA	NA	R0119 (NA)			
J9993	NASB-CW-GW02-1218	12/06/18 15:25	12/10/18 11:00	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9994	MW-09-204-1218	12/06/18 11:25	12/10/18 11:04	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9995	MW-B250-07-1218	12/06/18 11:30	12/10/18 11:04	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9996	MW-09-22-1218	12/06/18 9:35	12/10/18 11:04	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9997	MW-09-004-1218	12/06/18 8:15	12/10/18 11:04	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9998	MW-NASB-072-1218	12/05/18 14:42	12/10/18 11:05	2	GW	0.9	NA	NA	NA	R0119 (NA)			
J9999	NASB-09-GW-FB01-120618	12/06/18 11:50	12/10/18 11:05	2	QC	0.9	NA	NA	NA	R0119 (NA)			

Total Samples: 13

It can be done

Battelle Project No:

Sample Receipt Form

Approved: ☐ Authorized: ☐

Project Number: 112G08005-WE21

Client: Tetra Tech

Received by: Schumitz, Matt

Date/Time Received: Tuesday, December 11, 2018 11:30 AM

No. of Shipping Containers: 1

SHIPMENT

Method of Delivery: Commercial Carrier

Tracking Number: 7843 1667 6099

COC Forms: ☒ Shipped with samples ☐ No Forms

Cooler(s)/Box(es)

Cntr	Type	Tracking No.	Seal	Seal	Container	Therm.	Temp C	Smgs
1 of 1	Cooler	7843 1667 6099	Custody Seal	Intact	Intact	Therm_2	1.2	1

Samples

Sample Labels: ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 1.2 Temperature Blank used ☒ Yes ☐ No

(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA

If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA

If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA

Individual sample deviations noted on sample log

Samples Containers:

Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: Unknown

Storage Location: Custody: Refrigerator - R0119 (NA)

BDO IDs Assigned: I0064 - I0064

Samples logged in by: Schumitz, Matt

Date/Time: 12/11/2018 11:30 AM

Approved By:

Approved On:

Authorized By:

Authorized On:



It can be done

ShpNo SHP-181211-01

Battelle Project No: _____

Sample Receipt Form Details

Approved: ☐ Authorized: ☐Project Number: 112G08005-WE21Client: Tetra TechReceived by: Schumitz, MattDate/Time Received: Tuesday, December 11, 2018 11:30 AMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
I0064	NASB-CW-GW03-1218	12/09/18 13:10	12/11/18 11:39	2	GW	1.2	NA	NA	NA	R0119 (NA)			

Total Samples: 1

QA/QC Summary Batch 18-0718

Project:	CTO-WE21: Former Naval Air Station, Brunswick, Maine
Client Project Manager:	Jeff Orient
Parameters:	PFAS
Laboratory:	Battelle, Norwell, MA
Matrix:	GW, QC
Data Set:	DP-18-0404
Analytical SOP:	5-369
Method Reference:	PFAS to QSM 5.1 Table B-15

Sample Custody		
Collection Date	Receipt Date	Temp (°C)
12/5-6/2018	12/8/2018	0.9
12/9/2018	12/11/2018	1.2
Corrective Actions	None.	
Sample Storage	The water samples were stored refrigerated until extraction.	
Related samples	None.	

	METHOD SUMMARIES
Sample Preparation	Water samples were spiked with surrogates in the original sample container from the field. The water was extracted using a weak ion exchange solid phase extraction (SPE) cartridge and eluted from the SPE with 0.4% NH ₃ in methanol. Extracts were and concentrated to dryness under nitrogen with a water bath set between 35 °C and 45 °C, reconstituted with 80:20 methanol/water (V/V) and fortified with internal standard. Extracts were transferred for LC-MS/MS analysis.
Prep comments	Sample J9993-FS (NASB-CW-GW02-1218) contained algae, which clogged the SPE filter. The filter was popped and left inside the SPE cartridge for the duration of the extraction and elution.
Analysis	PFAS were measured by liquid chromatography tandem mass spectrometry (LC-MS/MS) in the multiple reaction monitoring (MRM). An initial calibration consisting of representative target analytes, labelled analogs, and internal standards was analyzed prior to analysis to demonstrate the linear range of analysis. Calibration verification was performed at the beginning and end of 10 injections and at the end of each sequence. Target PFAS were quantified using the isotope dilution method. Samples are reported in ng/L concentrations.
Analysis Comments	Samples analyzed on Sciex 5500 LC-MS/MS. PFHxS and PFOS in the LCS fortification solution are a mixture of linear and branched isomers. The value reported is a combined total of the isomers detected.

Holding Times	Extraction Date(s)	Analysis Date(s)
	11/13/2018	12/14/2018 and 12/19/2018

QA/QC Summary

Batch 18-0718

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
$\leq \frac{1}{2}$ the LOQ	Two exceedances noted.
Samples >10x PB	PFOA was detected the LCS and sample J9996-FS (MW-09-22-1218) at concentrations less than 10 times the blank concentration (1.57 ng/L). The blank passes criteria (greater than $\frac{1}{2}$ the LOQ).
Laboratory Control Spike (LCS)	A LCS was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Laboratory derived control limits for recovery	No exceedances noted.
	No comments.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A MS/MSD was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy.
Laboratory derived control limits for recovery and <30% RPD	No exceedances noted.
	No comments.
Extracted Internal Standard Analytes	Labelled analog compounds were added prior to extraction. The recoveries are calculated to measure extraction efficiency.
50-150% of true value	No exceedances noted.
	No comments.
Internal Standard Analytes	Labelled analog compounds were added prior to analysis.
+/- 50% of the area of the L5 calibration point.	No exceedances noted.
	No comments.
Initial Calibration (ICAL)	The LC-MS/MS was calibrated with multi-level calibration curve for all compounds using linear or quadratic curve fitting.
+/- 30% of true value, $R^2 \geq 0.99$	No exceedances noted.
	No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
+/- 30% of true value	No exceedances noted.
	No comments.

QA/QC Summary
Batch 18-0718

Continuing Calibration Verification (CCV)	Continuing calibration standards were run at the beginning and end of 10 injections and at the end of the sequence to ensure that initial calibration is still valid.
+/- 30% of true value	No exceedances noted.
	No comments.
Instrument Blank (IB)	Immediately following the highest standard analyzed and daily prior to sample analysis.
$\leq \frac{1}{2}$ the LOQ	No exceedances noted.
	No comments.



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project Number: 100122108-CTOWE21
 Preparation Batch: 18-0718
 Data Set: DP-18-0404
 Test Code: Master_369

QC Parameter:	Exceed:	Justification:
Procedural Blank	0	None
PB Measurement Quality Objective	2	PFOA is detected in 2 samples at a concentration less than 10x the PB, the PB has a reported concentration of 1.57 ng/L, less than 1/2 the reporting limit of 5.0 ng/L.
Laboratory Control Sample	0	None
Matrix Spike / Matrix Spike Duplicate Recovery	0	None
Matrix Spike / Matrix Spike Duplicate Precision	0	None
Extracted Internal Standard Analytes (Surrogates)	0	None
Instrument Calibration	0	None
Instrument Blank	0	None
Independent Calibration Check	0	None
Continuing Calibration Verification	0	None



It can be done

**BATTELLE - NORWELL OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM**

Project Title: CTO-WE21: Former Naval Air Station, B **Data Set Number:** DP-18-0404
Project Number: 100122108-CTOWE21 **Prep Batch Number:** 18-0718
Entered By: Denise Schumitz **Entered On:** 12/20/2018
Test Code (Matrix Type): Master_369(L)

Samples that were manually integrated are noted on the quant reports with the comment (TRUE).
DMS 12/19/18

KF40 was not used for d3-MeFOSAA and 13C3-PFBS for the SIS method. There is no impact on the data once these points are removed.
DMS 12/19/18

KF40 was not used for NMeFOSAA for the BASE method. There is no impact on the data once these points are removed.
DMS 12/19/18

KF34 was not used for PFBA for the BASE method. There is no impact on the data once these points are removed.
DMS 12/19/18

Task Leader Approval:

Supervisor Approval:

PM Approval:

Digitally signed by Jonathan
Thorn
Date: 2018.12.20 18:18:32 -05'00'



Glossary of Data Qualifiers

Flag: Application:

B	Analyte found in the sample at a concentration <10x the level found in the procedural blank
D	Dilution Run. Initial run outside the initial calibration range of the instrument
E	Estimate, result is greater than the highest concentration level in the calibration
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the Limit of Quantitation (LOQ)
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets secondary criteria
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not Applicable
T	Holding Time (HT) exceeded
U	Analyte not detected or detected below the Method detection limit (MDL) value, Limit of Detection (LOD) reported

Example Calculation for PFAS

Calculation of final concentration from area:

$$\text{Concentration} = \left[\frac{PA - b}{m} \right] * C_{IS} * PIV * DF / S$$

Where:

PA = Area of target / area of internal standard
 b = y intercept from calibration curve
 CIS = concentration of internal standard (ng/L)
 m = slope of calibration
 DF = dilution factor
 S = Sample Size
 PIV = Pre-injection volume (L)

Sample ID: J9995-FS(0)
 Client Sample ID: MW-B250-07-1218
 Sample Size: 0.28
 Units: L
 Dilution Factor: 1.000
 PIV (L): 0.001
 Target Analyte: PFHxS
 MRM Transition: 399.0 / 80.0
 Data file: AC_12192018_5-369.wiff
 Result table: 18-0718
 Area: 2,211,562.51
 IS Name: 13C3-PFHxS
 IS Area: 26,923.21
 IS Amount (ng/L): 236.5
 y-intercept: -0.24583
 slope: 3.78744

$$\text{Concentration} = \frac{[(2211562.51/26923.21) - -0.24583]}{3.78744} * 236.5 * 0.001 * 1 / 0.28$$

ng/L = 18.37

*Final concentration may vary based on rounding.



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Preparation Batch: 18-0718

Data Set: DP-18-0404

		CS469PB-FS (Procedural Blank)	CS470LCS-FS (Laboratory Control Sample)	J9992MS-FS (NASB-CW-GW01D-1218)	J9992MSD-FS (NASB-CW-GW01D-1218)	J9987-FS (NASB-CW-GW04-1218)	J9988-FS (NASB-CW-DUP-120618)	J9989-FS (NASB-CW-GW-FB01-120618)	J9990-FS (NASB-CW-GW-RB01-120618)	J9991-FS (NASB-CW-GW01S-1218)
PFBA	375-22-4	-	L	L	L	L	L	-	L	L
PFHxA	307-24-4	-	L	L	L	L	L	-	L	-
PFHpA	375-85-9	-	L	L	L	L	L	-	-	-
PFOA	335-67-1	L	L	L	L	L	L	L	L	L
PFNA	375-95-1	-	L	L	L	-	-	-	-	-
PFDA	335-76-2	-	L	L	L	-	-	-	-	-
PFUnA	2058-94-8	-	L	L	L	-	-	-	-	-
PFDoA	307-55-1	-	L	L	L	-	-	-	-	-
PFTTrDA	72629-94-8	-	L	L	L	-	-	-	-	-
PFTeDA	376-06-7	-	L	L	L	-	-	-	-	-
NMeFOSAA	2355-31-9	-	L	L	L	-	-	-	-	-
NEtFOSAA	2991-50-6	-	L	L	L	-	-	-	-	-
PFBS	375-73-5	-	L	L	L	L	L	-	-	-
PFHxS	355-46-4	-	L/Br	L/Br	L/Br	L/Br	L/Br	-	-	-
PFOS	1763-23-1	-	L/Br	L/Br	L/Br	L/Br	L/Br	-	-	-

"L": Linear

"Br": branched

"L/Br": Linear/Branched

"-": Not detected



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Preparation Batch

Data Set: DP-18

	J9992-FS (NASB-CW-GW01D-1218)	J9993-FS (NASB-CW-GW02-1218)	J9994-FS (MW-09-204-1218)	J9995-FS (MW-B250-07-1218)	J9996-FS (MW-09-22-1218)	J9997-FS (MW-09-004-1218)	J9998-FS (MW-NASB-072-1218)	J9999-FS (NASB-09-GW-FB01-120618)	I0064-FS (NASB-CW-GW03-1218)
PFBA	L	L	L	L	L	L	L	-	-
PFHxA	-	L		L	L	L	L	-	L
PFHpA	-	L	L	L	L	L	L	-	L
PFOA	L	L		L	L	L	L	L	L
PFNA	-	-	-	-	L	L	L	-	L
PFDA	-	-	-	-	-	-	-	-	L
PFUnA	-	-	-	-	-	-	-	-	-
PFDoA	-	-	-	-	-	-	-	-	-
PFTTrDA	-	-	-	-	-	-	-	-	-
PFTeDA	-	-	-	-	-	-	-	-	-
NMeFOSAA	-	-	-	-	-	-	-	-	-
NEtFOSAA	-	-	-	-	-	-	-	-	-
PFBS	-	-	L	L	L	L	L	-	L
PFHxS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	-	-
PFOS	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	L/Br	-	L/Br

"L": Linear

"Br": branched

"L/Br": Linear/Bra

"-": Not detected

Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KF38	L5	12/14/18 22:29	13C3-PFBA	48,205.64	24,102.82	72,308.46

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KF34	L1	12/14/18 21:46	13C3-PFBA	51,147.92	24,102.82	72,308.46	
KF35	L2	12/14/18 21:57	13C3-PFBA	50,397.31	24,102.82	72,308.46	
KF36	L3	12/14/18 22:07	13C3-PFBA	48,113.66	24,102.82	72,308.46	
KF37	L4	12/14/18 22:18	13C3-PFBA	49,482.19	24,102.82	72,308.46	
KF38	L5	12/14/18 22:29	13C3-PFBA	48,205.64	24,102.82	72,308.46	
KF39	L6	12/14/18 22:40	13C3-PFBA	46,467.92	24,102.82	72,308.46	
KF40	L7	12/14/18 22:51	13C3-PFBA	49,366.90	24,102.82	72,308.46	
KF41 IB	Instrument Blank	12/14/18 23:02	13C3-PFBA	48,319.56	24,102.82	72,308.46	
KF42 ICC	ICC	12/14/18 23:13	13C3-PFBA	49,175.05	24,102.82	72,308.46	
KF37 ISC	Instrument Sensitivity Check	12/19/18 12:42	13C3-PFBA	52,926.71	24,102.82	72,308.46	
KF41 IB	Instrument Blank	12/19/18 12:53	13C3-PFBA	53,282.19	24,102.82	72,308.46	
KF37 CCV	CCV	12/19/18 17:29	13C3-PFBA	51,122.91	24,102.82	72,308.46	
CS469PB-FS(0)	Procedural Blank	12/19/18 17:51	13C3-PFBA	54,111.12	24,102.82	72,308.46	
CS470LCS-FS(0)	Laboratory Control Sample	12/19/18 18:02	13C3-PFBA	50,408.95	24,102.82	72,308.46	
J9989-FS(0)	NASB-CW-GW-FB01-120618	12/19/18 18:13	13C3-PFBA	54,331.74	24,102.82	72,308.46	
J9999-FS(0)	NASB-09-GW-FB01-120618	12/19/18 18:24	13C3-PFBA	56,009.33	24,102.82	72,308.46	
J9992-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:35	13C3-PFBA	41,286.94	24,102.82	72,308.46	
J9992MS-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:45	13C3-PFBA	39,107.47	24,102.82	72,308.46	
J9992MSD-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:56	13C3-PFBA	40,355.75	24,102.82	72,308.46	
J9993-FS(0)	NASB-CW-GW02-1218	12/19/18 19:07	13C3-PFBA	53,215.35	24,102.82	72,308.46	
J9994-FS(0)	MW-09-204-1218	12/19/18 19:18	13C3-PFBA	40,111.93	24,102.82	72,308.46	
J9996-FS(0)	MW-09-22-1218	12/19/18 19:29	13C3-PFBA	66,407.35	24,102.82	72,308.46	
KF38 CCV	CCV	12/19/18 19:40	13C3-PFBA	55,873.26	24,102.82	72,308.46	
J9987-FS(0)	NASB-CW-GW04-1218	12/19/18 20:02	13C3-PFBA	44,192.96	24,102.82	72,308.46	
J9987-FS-D(3)	NASB-CW-GW04-1218	12/19/18 20:12	13C3-PFBA	55,024.08	24,102.82	72,308.46	1
J9988-FS(0)	NASB-CW-DUP-120618	12/19/18 20:23	13C3-PFBA	42,062.27	24,102.82	72,308.46	
J9988-FS-D(3)	NASB-CW-DUP-120618	12/19/18 20:34	13C3-PFBA	47,820.27	24,102.82	72,308.46	1
J9990-FS(0)	NASB-CW-GW-RB01-120618	12/19/18 20:45	13C3-PFBA	59,106.56	24,102.82	72,308.46	
J9990-FS-D(3)	NASB-CW-GW-RB01-120618	12/19/18 20:56	13C3-PFBA	52,559.84	24,102.82	72,308.46	1
J9991-FS(0)	NASB-CW-GW01S-1218	12/19/18 21:07	13C3-PFBA	60,926.96	24,102.82	72,308.46	
J9991-FS-D(3)	NASB-CW-GW01S-1218	12/19/18 21:18	13C3-PFBA	57,953.63	24,102.82	72,308.46	1
KF37 CCV	CCV	12/19/18 21:29	13C3-PFBA	48,839.73	24,102.82	72,308.46	
J9995-FS(0)	MW-B250-07-1218	12/19/18 21:50	13C3-PFBA	61,442.57	24,102.82	72,308.46	
J9995-FS-D(3)	MW-B250-07-1218	12/19/18 22:01	13C3-PFBA	55,147.97	24,102.82	72,308.46	1
J9997-FS(0)	MW-09-004-1218	12/19/18 22:12	13C3-PFBA	47,092.96	24,102.82	72,308.46	
J9997-FS-D(3)	MW-09-004-1218	12/19/18 22:23	13C3-PFBA	61,585.79	24,102.82	72,308.46	1
J9998-FS(0)	MW-NASB-072-1218	12/19/18 22:34	13C3-PFBA	57,023.90	24,102.82	72,308.46	
J9998-FS-D(3)	MW-NASB-072-1218	12/19/18 22:45	13C3-PFBA	54,712.12	24,102.82	72,308.46	1
I0064-FS(0)	NASB-CW-GW03-1218	12/19/18 22:55	13C3-PFBA	38,901.08	24,102.82	72,308.46	
I0064-FS-D(3)	NASB-CW-GW03-1218	12/19/18 23:06	13C3-PFBA	63,854.16	24,102.82	72,308.46	1
KF38 CCV	CCV	12/19/18 23:17	13C3-PFBA	53,206.02	24,102.82	72,308.46	

1 Dilutions made and run but not needed DMS 12/20/2018

Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KF38	L5	12/14/18 22:29	13C2-PFOA	94,506.28	47,253.14	141,759.42

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KF34	L1	12/14/18 21:46	13C2-PFOA	96,585.14	47,253.14	141,759.42	
KF35	L2	12/14/18 21:57	13C2-PFOA	93,637.07	47,253.14	141,759.42	
KF36	L3	12/14/18 22:07	13C2-PFOA	91,323.66	47,253.14	141,759.42	
KF37	L4	12/14/18 22:18	13C2-PFOA	100,485.00	47,253.14	141,759.42	
KF38	L5	12/14/18 22:29	13C2-PFOA	94,506.28	47,253.14	141,759.42	
KF39	L6	12/14/18 22:40	13C2-PFOA	88,454.29	47,253.14	141,759.42	
KF40	L7	12/14/18 22:51	13C2-PFOA	90,137.42	47,253.14	141,759.42	
KF41 IB	Instrument Blank	12/14/18 23:02	13C2-PFOA	90,491.57	47,253.14	141,759.42	
KF42 ICC	ICC	12/14/18 23:13	13C2-PFOA	89,619.28	47,253.14	141,759.42	
KF37 ISC	Instrument Sensitivity Check	12/19/18 12:42	13C2-PFOA	85,449.25	47,253.14	141,759.42	
KF41 IB	Instrument Blank	12/19/18 12:53	13C2-PFOA	85,039.73	47,253.14	141,759.42	
KF37 CCV	CCV	12/19/18 17:29	13C2-PFOA	79,040.58	47,253.14	141,759.42	
CS469PB-FS(0)	Procedural Blank	12/19/18 17:51	13C2-PFOA	64,191.17	47,253.14	141,759.42	
CS470LCS-FS(0)	Laboratory Control Sample	12/19/18 18:02	13C2-PFOA	70,603.85	47,253.14	141,759.42	
J9989-FS(0)	NASB-CW-GW-FB01-120618	12/19/18 18:13	13C2-PFOA	73,795.02	47,253.14	141,759.42	
J9999-FS(0)	NASB-09-GW-FB01-120618	12/19/18 18:24	13C2-PFOA	80,461.89	47,253.14	141,759.42	
J9992-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:35	13C2-PFOA	70,509.53	47,253.14	141,759.42	
J9992MS-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:45	13C2-PFOA	70,538.58	47,253.14	141,759.42	
J9992MSD-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:56	13C2-PFOA	71,634.79	47,253.14	141,759.42	
J9993-FS(0)	NASB-CW-GW02-1218	12/19/18 19:07	13C2-PFOA	71,156.17	47,253.14	141,759.42	
J9994-FS(0)	MW-09-204-1218	12/19/18 19:18	13C2-PFOA	71,515.61	47,253.14	141,759.42	
J9996-FS(0)	MW-09-22-1218	12/19/18 19:29	13C2-PFOA	79,582.45	47,253.14	141,759.42	
KF38 CCV	CCV	12/19/18 19:40	13C2-PFOA	84,561.97	47,253.14	141,759.42	
J9987-FS(0)	NASB-CW-GW04-1218	12/19/18 20:02	13C2-PFOA	72,659.87	47,253.14	141,759.42	
J9987-FS-D(3)	NASB-CW-GW04-1218	12/19/18 20:12	13C2-PFOA	73,364.09	47,253.14	141,759.42	1
J9988-FS(0)	NASB-CW-DUP-120618	12/19/18 20:23	13C2-PFOA	71,118.18	47,253.14	141,759.42	
J9988-FS-D(3)	NASB-CW-DUP-120618	12/19/18 20:34	13C2-PFOA	69,708.95	47,253.14	141,759.42	1
J9990-FS(0)	NASB-CW-GW-RB01-120618	12/19/18 20:45	13C2-PFOA	78,923.29	47,253.14	141,759.42	
J9990-FS-D(3)	NASB-CW-GW-RB01-120618	12/19/18 20:56	13C2-PFOA	77,367.56	47,253.14	141,759.42	1
J9991-FS(0)	NASB-CW-GW01S-1218	12/19/18 21:07	13C2-PFOA	78,444.65	47,253.14	141,759.42	
J9991-FS-D(3)	NASB-CW-GW01S-1218	12/19/18 21:18	13C2-PFOA	74,675.55	47,253.14	141,759.42	1
KF37 CCV	CCV	12/19/18 21:29	13C2-PFOA	72,893.96	47,253.14	141,759.42	
J9995-FS(0)	MW-B250-07-1218	12/19/18 21:50	13C2-PFOA	85,546.11	47,253.14	141,759.42	
J9995-FS-D(3)	MW-B250-07-1218	12/19/18 22:01	13C2-PFOA	74,409.25	47,253.14	141,759.42	1
J9997-FS(0)	MW-09-004-1218	12/19/18 22:12	13C2-PFOA	78,051.15	47,253.14	141,759.42	
J9997-FS-D(3)	MW-09-004-1218	12/19/18 22:23	13C2-PFOA	80,701.67	47,253.14	141,759.42	1
J9998-FS(0)	MW-NASB-072-1218	12/19/18 22:34	13C2-PFOA	79,894.03	47,253.14	141,759.42	
J9998-FS-D(3)	MW-NASB-072-1218	12/19/18 22:45	13C2-PFOA	78,017.94	47,253.14	141,759.42	1
I0064-FS(0)	NASB-CW-GW03-1218	12/19/18 22:55	13C2-PFOA	72,216.82	47,253.14	141,759.42	
I0064-FS-D(3)	NASB-CW-GW03-1218	12/19/18 23:06	13C2-PFOA	75,361.79	47,253.14	141,759.42	1
KF38 CCV	CCV	12/19/18 23:17	13C2-PFOA	94,428.93	47,253.14	141,759.42	

1 Dilutions made and run but not needed DMS 12/20/2018

Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KF38	L5	12/14/18 22:29	13C2-PFDA	86,272.87	43,136.44	129,409.31

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KF34	L1	12/14/18 21:46	13C2-PFDA	87,176.19	43,136.44	129,409.31	
KF35	L2	12/14/18 21:57	13C2-PFDA	85,041.75	43,136.44	129,409.31	
KF36	L3	12/14/18 22:07	13C2-PFDA	89,264.58	43,136.44	129,409.31	
KF37	L4	12/14/18 22:18	13C2-PFDA	92,190.84	43,136.44	129,409.31	
KF38	L5	12/14/18 22:29	13C2-PFDA	86,272.87	43,136.44	129,409.31	
KF39	L6	12/14/18 22:40	13C2-PFDA	76,288.92	43,136.44	129,409.31	
KF40	L7	12/14/18 22:51	13C2-PFDA	82,856.34	43,136.44	129,409.31	
KF41 IB	Instrument Blank	12/14/18 23:02	13C2-PFDA	84,046.94	43,136.44	129,409.31	
KF42 ICC	ICC	12/14/18 23:13	13C2-PFDA	85,799.21	43,136.44	129,409.31	
KF37 ISC	Instrument Sensitivity Check	12/19/18 12:42	13C2-PFDA	89,189.26	43,136.44	129,409.31	
KF41 IB	Instrument Blank	12/19/18 12:53	13C2-PFDA	93,957.44	43,136.44	129,409.31	
KF37 CCV	CCV	12/19/18 17:29	13C2-PFDA	84,249.18	43,136.44	129,409.31	
CS469PB-FS(0)	Procedural Blank	12/19/18 17:51	13C2-PFDA	70,658.54	43,136.44	129,409.31	
CS470LCS-FS(0)	Laboratory Control Sample	12/19/18 18:02	13C2-PFDA	66,108.37	43,136.44	129,409.31	
J9989-FS(0)	NASB-CW-GW-FB01-120618	12/19/18 18:13	13C2-PFDA	81,723.01	43,136.44	129,409.31	
J9999-FS(0)	NASB-09-GW-FB01-120618	12/19/18 18:24	13C2-PFDA	77,193.46	43,136.44	129,409.31	
J9992-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:35	13C2-PFDA	74,768.84	43,136.44	129,409.31	
J9992MS-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:45	13C2-PFDA	76,079.60	43,136.44	129,409.31	
J9992MSD-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:56	13C2-PFDA	80,172.80	43,136.44	129,409.31	
J9993-FS(0)	NASB-CW-GW02-1218	12/19/18 19:07	13C2-PFDA	74,902.32	43,136.44	129,409.31	
J9994-FS(0)	MW-09-204-1218	12/19/18 19:18	13C2-PFDA	72,276.74	43,136.44	129,409.31	
J9996-FS(0)	MW-09-22-1218	12/19/18 19:29	13C2-PFDA	83,090.29	43,136.44	129,409.31	
KF38 CCV	CCV	12/19/18 19:40	13C2-PFDA	84,584.76	43,136.44	129,409.31	
J9987-FS(0)	NASB-CW-GW04-1218	12/19/18 20:02	13C2-PFDA	75,942.41	43,136.44	129,409.31	
J9987-FS-D(3)	NASB-CW-GW04-1218	12/19/18 20:12	13C2-PFDA	75,019.97	43,136.44	129,409.31	1
J9988-FS(0)	NASB-CW-DUP-120618	12/19/18 20:23	13C2-PFDA	76,110.82	43,136.44	129,409.31	
J9988-FS-D(3)	NASB-CW-DUP-120618	12/19/18 20:34	13C2-PFDA	71,343.90	43,136.44	129,409.31	1
J9990-FS(0)	NASB-CW-GW-RB01-120618	12/19/18 20:45	13C2-PFDA	88,238.01	43,136.44	129,409.31	
J9990-FS-D(3)	NASB-CW-GW-RB01-120618	12/19/18 20:56	13C2-PFDA	78,082.21	43,136.44	129,409.31	1
J9991-FS(0)	NASB-CW-GW01S-1218	12/19/18 21:07	13C2-PFDA	79,138.50	43,136.44	129,409.31	
J9991-FS-D(3)	NASB-CW-GW01S-1218	12/19/18 21:18	13C2-PFDA	77,855.80	43,136.44	129,409.31	1
KF37 CCV	CCV	12/19/18 21:29	13C2-PFDA	80,761.89	43,136.44	129,409.31	
J9995-FS(0)	MW-B250-07-1218	12/19/18 21:50	13C2-PFDA	82,252.10	43,136.44	129,409.31	
J9995-FS-D(3)	MW-B250-07-1218	12/19/18 22:01	13C2-PFDA	83,462.54	43,136.44	129,409.31	1
J9997-FS(0)	MW-09-004-1218	12/19/18 22:12	13C2-PFDA	76,949.05	43,136.44	129,409.31	
J9997-FS-D(3)	MW-09-004-1218	12/19/18 22:23	13C2-PFDA	85,981.96	43,136.44	129,409.31	1
J9998-FS(0)	MW-NASB-072-1218	12/19/18 22:34	13C2-PFDA	82,941.89	43,136.44	129,409.31	
J9998-FS-D(3)	MW-NASB-072-1218	12/19/18 22:45	13C2-PFDA	81,926.92	43,136.44	129,409.31	1
I0064-FS(0)	NASB-CW-GW03-1218	12/19/18 22:55	13C2-PFDA	78,290.02	43,136.44	129,409.31	
I0064-FS-D(3)	NASB-CW-GW03-1218	12/19/18 23:06	13C2-PFDA	80,910.46	43,136.44	129,409.31	1
KF38 CCV	CCV	12/19/18 23:17	13C2-PFDA	88,350.02	43,136.44	129,409.31	

1 Dilutions made and run but not needed DMS 12/20/2018

Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21



Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper
KF38	L5	12/14/18 22:29	13C4-PFOS	29,951.07	14,975.54	44,926.61

Sample Name	Sample ID	Analysis Date	Analyte	Area	Lower	Upper	Qualifier
KF34	L1	12/14/18 21:46	13C4-PFOS	29,522.38	14,975.54	44,926.61	
KF35	L2	12/14/18 21:57	13C4-PFOS	26,278.59	14,975.54	44,926.61	
KF36	L3	12/14/18 22:07	13C4-PFOS	27,322.78	14,975.54	44,926.61	
KF37	L4	12/14/18 22:18	13C4-PFOS	29,250.92	14,975.54	44,926.61	
KF38	L5	12/14/18 22:29	13C4-PFOS	29,951.07	14,975.54	44,926.61	
KF39	L6	12/14/18 22:40	13C4-PFOS	27,833.94	14,975.54	44,926.61	
KF40	L7	12/14/18 22:51	13C4-PFOS	21,481.26	14,975.54	44,926.61	
KF41 IB	Instrument Blank	12/14/18 23:02	13C4-PFOS	26,611.96	14,975.54	44,926.61	
KF42 ICC	ICC	12/14/18 23:13	13C4-PFOS	28,010.11	14,975.54	44,926.61	
KF37 ISC	Instrument Sensitivity Check	12/19/18 12:42	13C4-PFOS	31,058.84	14,975.54	44,926.61	
KF41 IB	Instrument Blank	12/19/18 12:53	13C4-PFOS	29,880.82	14,975.54	44,926.61	
KF37 CCV	CCV	12/19/18 17:29	13C4-PFOS	28,937.39	14,975.54	44,926.61	
CS469PB-FS(0)	Procedural Blank	12/19/18 17:51	13C4-PFOS	25,033.83	14,975.54	44,926.61	
CS470LCS-FS(0)	Laboratory Control Sample	12/19/18 18:02	13C4-PFOS	21,953.34	14,975.54	44,926.61	
J9989-FS(0)	NASB-CW-GW-FB01-120618	12/19/18 18:13	13C4-PFOS	24,860.73	14,975.54	44,926.61	
J9999-FS(0)	NASB-09-GW-FB01-120618	12/19/18 18:24	13C4-PFOS	27,995.14	14,975.54	44,926.61	
J9992-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:35	13C4-PFOS	25,523.27	14,975.54	44,926.61	
J9992MS-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:45	13C4-PFOS	24,651.48	14,975.54	44,926.61	
J9992MSD-FS(0)	NASB-CW-GW01D-1218	12/19/18 18:56	13C4-PFOS	21,998.35	14,975.54	44,926.61	
J9993-FS(0)	NASB-CW-GW02-1218	12/19/18 19:07	13C4-PFOS	25,041.98	14,975.54	44,926.61	
J9994-FS(0)	MW-09-204-1218	12/19/18 19:18	13C4-PFOS	20,941.30	14,975.54	44,926.61	
J9996-FS(0)	MW-09-22-1218	12/19/18 19:29	13C4-PFOS	26,115.85	14,975.54	44,926.61	
KF38 CCV	CCV	12/19/18 19:40	13C4-PFOS	29,749.72	14,975.54	44,926.61	
J9987-FS(0)	NASB-CW-GW04-1218	12/19/18 20:02	13C4-PFOS	25,782.56	14,975.54	44,926.61	
J9987-FS-D(3)	NASB-CW-GW04-1218	12/19/18 20:12	13C4-PFOS	24,353.54	14,975.54	44,926.61	1
J9988-FS(0)	NASB-CW-DUP-120618	12/19/18 20:23	13C4-PFOS	25,734.34	14,975.54	44,926.61	
J9988-FS-D(3)	NASB-CW-DUP-120618	12/19/18 20:34	13C4-PFOS	24,356.46	14,975.54	44,926.61	1
J9990-FS(0)	NASB-CW-GW-RB01-120618	12/19/18 20:45	13C4-PFOS	28,586.12	14,975.54	44,926.61	
J9990-FS-D(3)	NASB-CW-GW-RB01-120618	12/19/18 20:56	13C4-PFOS	26,083.07	14,975.54	44,926.61	1
J9991-FS(0)	NASB-CW-GW01S-1218	12/19/18 21:07	13C4-PFOS	27,274.94	14,975.54	44,926.61	
J9991-FS-D(3)	NASB-CW-GW01S-1218	12/19/18 21:18	13C4-PFOS	29,316.02	14,975.54	44,926.61	1
KF37 CCV	CCV	12/19/18 21:29	13C4-PFOS	27,408.34	14,975.54	44,926.61	
J9995-FS(0)	MW-B250-07-1218	12/19/18 21:50	13C4-PFOS	27,123.45	14,975.54	44,926.61	
J9995-FS-D(3)	MW-B250-07-1218	12/19/18 22:01	13C4-PFOS	27,468.63	14,975.54	44,926.61	1
J9997-FS(0)	MW-09-004-1218	12/19/18 22:12	13C4-PFOS	25,214.85	14,975.54	44,926.61	
J9997-FS-D(3)	MW-09-004-1218	12/19/18 22:23	13C4-PFOS	23,916.42	14,975.54	44,926.61	1
J9998-FS(0)	MW-NASB-072-1218	12/19/18 22:34	13C4-PFOS	26,254.21	14,975.54	44,926.61	
J9998-FS-D(3)	MW-NASB-072-1218	12/19/18 22:45	13C4-PFOS	26,595.17	14,975.54	44,926.61	1
I0064-FS(0)	NASB-CW-GW03-1218	12/19/18 22:55	13C4-PFOS	22,981.24	14,975.54	44,926.61	
I0064-FS-D(3)	NASB-CW-GW03-1218	12/19/18 23:06	13C4-PFOS	26,975.85	14,975.54	44,926.61	1
KF38 CCV	CCV	12/19/18 23:17	13C4-PFOS	28,789.10	14,975.54	44,926.61	

1 Dilutions made and run but not needed DMS 12/20/2018

Sample Name	KF40	Injection Vial	35
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 10:51:24 PM	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
PFBS_1	298.9 / 80.0	1.50	56	>10
PFBS_2	298.9 / 99.0	1.49	51	>10
PFHxA_1	313.0 / 269.0	1.80	27	>10
PFHxA_2	313.0 / 119.0	1.80	27	>10
PFHpA_1	363.0 / 319.0	2.21	32	>10
PFHpA_2	363.0 / 169.0	2.21	33	>10
PFHxS_1	399.0 / 80.0	2.24	56	>10
PFHxS_2	399.0 / 99.0	2.24	49	>10
PFOA_1	413.0 / 369.0	2.63	57	>10
PFOA_2	413.0 / 169.0	2.62	57	>10
PFNA_1	463.0 / 419.0	3.02	54	>10
PFNA_2	463.0 / 219.0	3.02	55	>10
PFOS_1	499.0 / 80.0	3.01	59	>10
PFOS_2	499.0 / 99.0	3.02	52	>10
PFDA_1	513.0 / 469.0	3.38	58	>10
PFDA_2	513.0 / 219.0	3.38	50	>10
PFUnA_1	563.0 / 519.0	3.70	60	>10
PFUnA_2	563.0 / 269.0	3.70	61	>10
PFDoA_1	613.0 / 569.0	3.99	75	>10
PFDoA_2	613.0 / 319.0	3.99	61	>10
PFTTrDA_1	663.0 / 619.0	4.23	79	>10
PFTTrDA_2	663.0 / 169.0	4.23	76	>10
PFTeDA_1	713.0 / 669.0	4.45	125	>10
PFTeDA_2	713.0 / 169.0	4.45	69	>10
NMeFOSAA_1	570.0 / 419.0	3.53	50	>10
NMeFOSAA_2	570.0 / 512.0	3.53	51	>10
NEtFOSAA_1	584.0 / 419.0	3.69	54	>10
NEtFOSAA_2	584.0 / 483.0	3.70	50	>10
PFBA	213.0 / 169.0	1.04	56	>10

Sample Name	KF40	Injection Vial	35
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 10:51:24 PM	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Spectra Acquisition Rate	Passing Range
13C4-PFBA	217.0 / 172.0	1.04	110	>10
13C2-PFDoA	615.0 / 570.0	3.98	38	>10
d3-MeFOSAA	573.0 / 419.0	3.52	33	>10
d5-EtFOSAA	589.0 / 419.0	3.68	33	>10
13C5-PFHxA	318.0 / 273.0	1.79	47	>10
13C4-PFHpA	367.0 / 322.0	2.20	38	>10
13C8-PFOA	421.0 / 376.0	2.61	62	>10
13C9-PFNA	472.0 / 427.0	3.01	45	>10
13C6-PFDA	519.0 / 474.0	3.37	43	>10
13C7-PFUnA	570.0 / 525.0	3.69	53	>10
13C2-PFTeDA	715.0 / 670.0	4.45	69	>10
13C3-PFBS	302.0 / 99.0	1.48	42	>10
13C3-PFHxS	402.0 / 99.0	2.24	32	>10
13C8-PFOS	507.0 / 99.0	3.02	35	>10



Precision and Bias at the LOQ for PFAS in non-potable Water

Analyte	CAS No.	Average (ng/L)	ST DEV	2 Sigma	n
PFBA	375-22-4	12.17	1.90	3.80	15
PFPeA	2706-90-3	10.58	1.50	3.00	10
PFHxA	307-24-4	9.95	1.24	2.48	43
PFHpA	375-85-9	9.46	1.50	3.00	43
PFOA	335-67-1	10.22	1.44	2.88	45
PFNA	375-95-1	9.72	1.17	2.34	43
PFDA	335-76-2	9.90	1.27	2.54	43
PFUnA	2058-94-8	9.89	1.26	2.52	43
PFDoA	307-55-1	10.74	1.24	2.48	43
PFTTrDA	72629-94-8	11.15	1.47	2.94	43
PFTeDA	376-06-7	10.70	1.82	3.64	43
NMeFOSAA	2355-31-9	10.36	1.85	3.70	43
NEtFOSAA	2991-50-6	9.66	1.48	2.96	43
PFOSA	754-91-6	9.72	0.93	1.86	5
PFBS	375-73-5	10.07	1.39	2.78	44
PFPeS	2706-91-4	9.59	0.96	1.92	6
PFHxS	355-46-4	9.79	1.43	2.86	43
PFHpS	375-92-8	10.79	1.05	2.10	11
PFOS	1763-23-1	10.04	1.30	2.60	43
PFNS	68259-12-1	9.50	1.02	2.04	5
PFDS	335-77-3	10.11	1.77	3.54	10
4:2FTS	414911-30-1	10.81	1.37	2.74	10
6:2FTS	27619-97-2	12.34	2.80	5.60	10
8:2FTS	39108-34-4	11.96	2.44	4.88	10

BATTELLE DETECTION LIMITS FOR PFAS IN NON-POTABLE WATER

Page 61 of 418

Analytical SOP 5-369

Extraction SOP 5-370

PFAS by LC-MS/MS Compliant with QSM 5.1 Compliant Table B-15

Analyte	CAS No.	MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)
PFBA	375-22-4	0.14	0.5	5.0
PFPeA	2706-90-3	0.31	1.0	5.0
PFHxA	307-24-4	0.19	0.5	5.0
PFHpA	375-85-9	0.16	0.5	5.0
PFOA	335-67-1	0.18	0.5	5.0
PFNA	375-95-1	0.26	1.0	5.0
PFDA	335-76-2	0.16	0.5	5.0
PFUnA	2058-94-8	0.29	1.0	5.0
PFDoA	307-55-1	0.18	0.5	5.0
PFTTrDA	72629-94-8	0.15	0.5	5.0
PFTeDA	376-06-7	0.25	1.0	5.0
NMeFOSAA	2355-31-9	0.56	2.0	5.0
NEtFOSAA	2991-50-6	0.49	1.0	5.0
PFOSA	754-91-6	TBD	TBD	TBD
PFBS	375-73-5	0.13	0.5	5.0
PFPeS	BDO-2114	0.67	2.5	5.0
PFHxS	355-46-4	0.11	0.4	5.0
PFHpS	375-99-6	0.20	0.5	5.0
PFOS	1763-23-1	0.19	0.5	5.0
PFNS	98789-57-2	0.46	1.0	5.0
PFDS	2806-15-7	0.17	0.5	5.0
4:2FTS	BDO-2205	0.14	0.5	5.0
6:2FTS	27619-97-2	1.36	2.5	5.0
8:2FTS	39108-34-4	0.22	0.5	5.0

Analytes on NELAP and ELAP QSM 5.1 Scope of accreditation

Analytical Transitions for PFAS in non-potable water, solid, and tissue

EPA 537 MOD DoD QSM 5.1 compliant with Table B-15 requirements

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
PFBA	375-22-4	Target	213.0 / 169.0	NA
PFPeA	2706-90-3	Target	263.0 / 219.0	NA
PFHxA	307-24-4	Target	313.0 / 269.0	313.0 / 119.0
PFHpA	375-85-9	Target	363.0 / 319.0	363.0 / 169.0
PFOA	335-67-1	Target	413.0 / 369.0	413.0 / 169.0
PFNA	375-95-1	Target	463.0 / 419.0	463.0 / 219.0
PFDA	335-76-2	Target	513.0 / 469.0	513.0 / 219.0
PFUnA	2058-94-8	Target	563.0 / 519.0	563.0 / 269.0
PFDaA	307-55-1	Target	613.0 / 569.0	613.0 / 319.0
PFTTrDA	72629-94-8	Target	663.0 / 619.0	663.0 / 169.0
PFTeDA	376-06-7	Target	713.0 / 669.0	713.0 / 169.0
NMeFOSAA	2355-31-9	Target	570.0 / 419.0	570.0 / 512.0
NEtFOSAA	2991-50-6	Target	584.0 / 419.0	584.0 / 483.0
PFOSA	754-91-6	Target	498.0 / 78.0	498.0 / 83.0
PFBS	375-73-5	Target	299.0 / 80.0	299.0 / 99.0
PFPeS	BDO-2114	Target	349.0 / 99.0	249.0 / 80.0
PFHxS	355-46-4	Target	399.0 / 80.0	399.0 / 99.0
PFHpS	375-99-6	Target	449.0 / 80.0	449.0 / 99.0
PFOS	1763-23-1	Target	499.0 / 80.0	499.0 / 99.0
PFNS	98789-57-2	Target	549.0 / 99.0	549.0 / 80.0
PFDS	2806-15-7	Target	599.0 / 80.0	599.0 / 99.0
4:2FTS	BDO-2205	Target	327.0 / 307.0	327.0 / 80.0
6:2FTS	27619-97-2	Target	427.0 / 407.0	427.0 / 81.0
8:2FTS	39108-34-4	Target	527.0 / 507.0	527.0 / 487.0
13C4-PFBA	BDO-2105	SIS ¹	217.0 / 172.0	NA
13C5-PFPeA	BDO-2216	SIS ¹	268.0 / 223.0	NA
13C5-PFHxA	BDO-2217	SIS ¹	318.0 / 273.0	NA

Analyte	CAS No.	Type	Primary Transition	Secondary Transition
13C4-PFH _p A	BDO-2218	SIS ¹	367.0 / 322.0	NA
13C8-PFOA	BDO-2219	SIS ¹	421.0 / 376.0	NA
13C9-PFNA	BDO-2221	SIS ¹	472.0 / 427.0	NA
13C6-PFDA	BDO-2222	SIS ¹	519.0 / 474.0	NA
13C7-PFUnA	BDO-2223	SIS ¹	570.0 / 525.0	NA
13C2-PFDoA	BDO-2112	SIS ¹	615.0 / 570.0	NA
13C2-PFTeDA	BDO-2224	SIS ¹	715.0 / 670.0	NA
d3-MeFOSAA	BDO-1838	SIS ¹	573.0 / 419.0	NA
d5-EtFOSAA	BDO-1839	SIS ¹	589.0 / 419.0	NA
13C8-FOSA	BDO-2225	SIS ¹	506.0 / 78.0	NA
13C3-PFBS	BDO-2226	SIS ¹	302.0 / 99.0	NA
13C3-PFH _x S	BDO-2227	SIS ¹	402.0 / 99.0	NA
13C8-PFOS	BDO-2228	SIS ¹	507.0 / 99.0	NA
13C2-4:2FTS	BDO-2229	SIS ¹	329.0 / 81.0	NA
13C2-6:2FTS	BDO-2230	SIS ¹	429.0 / 81.0	NA
13C2-8:2FTS	BDO-2220	SIS ¹	529.0 / 81.0	NA
13C3-PFBA	BDO-2231	IS ²	216.0 / 172.0	NA
13C2-PFOA	BDO-2107	IS ²	415.0 / 370.0	NA
13C2-PFDA	BDO-2110	IS ²	515.0 / 470.0	NA
13C4-PFOS	BDO-2121	IS ²	503.0 / 99.0	NA

¹ – extracted internal standard (surrogate)

² – injection internal standard



Non-Potable Water Calibration to Sample Equivalents

ICAL (ng/L)	PIV (mL)	DF ¹	Sample Size (L)	Sample Equivalent (ng/L) ²
25	1	1	0.250	0.1
50	1	1	0.250	0.2
100	1	1	0.250	0.4
250	1	1	0.250	1.0
500	1	1	0.250	2.0
1,000	1	1	0.250	4.0
2,500	1	1	0.250	10.0
10,000	1	1	0.250	40.0
20,000	1	1	0.250	80.0

¹ - base level dilution as part of the extraction procedure

² - calculated equivalent of a sample based on the ICAL concentration

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

QTRAP 5500 Preventive Maintenance Checklist

Preventive Maintenance Date:	13-Dec-2018
Request ID:	12358
Company Name:	Battelle Memorial Institute
Instrument ID:	Instrument AC
Instrument Model:	QTrap 5500
Instrument Serial Number:	AU 23051004

☒ **PASS**

☐ **FAIL**

Any failure will lead to an automatic Service Call being open to investigate fault.

Preventive Maintenance is performed twice every year unless specified in the Service Contract. It is designed to help maintain optimum system performance and to help diagnose any system deficiencies.

Engineer is required the assigned Request ID for this PM otherwise making this job invalid.

Comments: _____

Performed By: Kaustubh Dhayagude **Date:** 13-Dec-2018

Approved By :  **Date:** 13-Dec-2018

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

PRE PM PPG PERFORMANCE EVALUATION:

- ☒ Consult Customer concerning the unit overall performance.
- ☒ Check Logbook for Services recently performed.
- ☒ Check Vacuum Pressure:

CAD Settings	Vacuum Reading (x 10 ⁻⁵ Torr)	Acceptance Criteria
☒ CAD 0	0.5	0.4 to 1.1 x10 ⁻⁵ Torr
☒ CAD Low	1.2	Read Only
☒ CAD Medium	3.3	Read Only
☒ CAD High	4.1	Read Only
☒ CAD 12	4.1	2.4 to 4.5 x10 ⁻⁵ Torr

- ☒ Check for Front end contamination symptoms. Run Q1 POS PPG using PPG 2e-7for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification
 - ☒ No degradation or Sensitivity drop
- ☒ Check for Q3 contamination symptoms. Run Q3 POS PPG using PPG 2e-7for a few minutes and check for any TIC signal degradation or huge sensitivity drop where the sensitivity result can't pass specification
 - ☒ No degradation or Sensitivity drop

Pre PM PPG Test: Perform each of the following tests. Optimize ion source position only. The specifications listed for these Pre PM tests are guidelines only, not required to be met.

- ☒ Perform Q1 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Q1 175.133	3.02 e6	Read Only	0.9336	Read Only
Q1 500.380	1.70 e7	Read Only	0.9827	Read Only
Q1 906.673	2.56 e7	Read Only	1.0305	Read Only

- ☒ Perform Q3 POS using POS PPG 2e-7M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Q3 175.133	2.90 e6	Read Only	0.6413	Read Only
Q3 500.380	1.43 e7	Read Only	0.7689	Read Only
Q3 906.673	2.17 e7	Read Only	0.7984	Read Only

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

☒ Perform MSMS POS in Product Ion scan with 609.3 parent and record daughter 195.1 using Reserpine 0.167 pmol/ul at the scan rate of 10 Da/s for 10 MCA. Calculate transmission efficiency comparing Q1POS 609 intensity. Transmission Efficiency: : 31.42% (Read Only)

Mass	MSMS Intensity		MSMS Width Value	Width Specs
	Value	Spec		
Q1 609.3	2.18 e7	Read Only	0.8899	Read Only
MS/MS 195.1	6.85 e6	Read Only	0.6696	Read Only

☒ Perform Q1 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Q1 933.636	4.27 e6	Read Only	0.7598	Read Only

☒ Perform Q3 NEG using NEG PPG 3e-5M. Scan Rate 10 Da/s. Record 10 mca.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Q3 933.636	5.71 e6	Read Only	0.7457	Read Only

☒ Perform Product Ion scan using NEG PPG 3e-5M. Record 10mca.

Mass	Scan Rate	MCA	MSMS Intensity		MSMS Width Value	Width Specs
			Value	Spec		
MSMS 45	10	10	8.82 e5	Read Only	0.6745	Read Only

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

PREVENTIVE MAINTENANCE CHECKLIST:

- ☒ Check Cooling Fans for Turbo Pumps while MS is ON.
- ☒ Check QJet and QPS tuning voltage for reference.
- ☐ Record AC input Voltage while MS is OFF: _____ (200-240VAC).
If Out-of-Range, notify customer.
- ☒ Clean Interface
 - ☒ Curtain Plate
 - ☒ Orifice Plate
 - ☒ QJet
 - ☒ Q0 Rods.
- ☒ Replace Roughing Pump Oil.
- ☒ Inspect Oil Exhaust Filter, if Applicable. ☐ N/A
- ☒ Clean and inspect built-in divert valve if used. ☐ N/A
- ☒ Check Multiplier Voltage, optimize if necessary.
- ☒ Replace four Air Filters at the bottom of the mass spectrometer.
- ☒ Pump down overnight if possible. ☐ N/A
- ☒ Perform Maintenance on Turbo V source.
- ☒ Replace Electrode, if necessary. ☐ N/A
- ☒ Check Turbo heaters resistances.
- ☒ Check if Temperature is reached at 500C with TIS Probe installed.
- ☐ Check if Temperature is reached at 500C with APCI Probe installed. ☒ N/A

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

POST PM PPG PERFORMANCE TESTS:

- ☒ Set-up Sample for Infusion.
- ☒ Check spray and adjust sprayer's position of the TIS source.
- ☒ Check Vacuum Pressure:

CAD Settings	Vacuum Reading (x 10 ⁻⁵ Torr)	Acceptance Criteria
☒ CAD 0	0.6	0.4 to 1.1 x10 ⁻⁵ Torr
☒ CAD Low	1.2	Read Only
☒ CAD Medium	3.3	Read Only
☒ CAD High	4.1	Read Only
☒ CAD 12	4.1	2.4 to 4.5 x10 ⁻⁵ Torr

- ☒ Perform Q1 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

Mass	Q1 Intensity		Q1 Width Value	Width Specs
	Value	Spec		
Scan Rate 10 Da/s Record 10 mca				
Q1 175.133	4.47 e6	≥1.2 ^{e6}	0.7356	0.6 to 0.8
Q1 500.380	2.51 e7	≥9.0 ^{e6}	0.7263	0.6 to 0.8
Q1 906.673	3.04 e7	≥1.4 ^{e7}	0.7080	0.6 to 0.8
Scan Rate 1000 Da/s Record 50 mca				
Q1 906.673	1.57 e8	≥6.8 ^{e7}	0.6639	0.6 to 0.8

- ☒ Perform Q3 POS using POS PPG 2e-7M. Mass calibrate to less than 0.1 amu.

Mass	Q3 Intensity		Q3 Width Value	Width Specs
	Value	Spec		
Scan Rate 10 Da/s Record 10 mca				
Q3 175.133	4.30 e6	≥1.2 ^{e6}	0.6905	0.6 to 0.8
Q3 500.380	2.33 e7	≥9.0 ^{e6}	0.7752	0.6 to 0.8
Q3 906.673	3.51 e7	≥1.4 ^{e7}	0.7682	0.6 to 0.8
Scan Rate 1000 Da/s Record 50 mca				
Q3 906.673	1.58 e8	≥6.8 ^{e7}	0.7088	0.6 to 0.8

- ☒ Perform "Product of 609.3" POS and record product ion 195.1 using Reserpine 0.167pmol/uL. Record 10 mca. Calculate Transmission efficiency comparing Q1POS 609 intensity.

Transmission Efficiency: 16.76% (≥ 10.0%)

Mass	MSMS Intensity		Width Value	Width Specs
	Value	Spec		
Q1 609.3	6.74 e7	N/A	0.7430	Read Only
MS/MS 195.1	1.13 e7	N/A	0.7152	Read Only

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

☒ Perform Q1 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

Mass	Scan Rate	Mca	Q1 Intensity		Q1 Width Value	Width Specs
			Value	Spec		
Q1 933.636	10	10	1.25 e7	$\geq 1.0^e7$	0.7544	0.6 to 0.8
Q1 933.636	1000	50	7.51 e7	$\geq 4.0^e7$	0.7671	0.6 to 0.8

☒ Perform Q3 NEG using NEG PPG 3e-5M. Mass calibrate to less than 0.1 amu.

Mass	Scan Rate	Mca	Q3 Intensity		Q3 Width Value	Width Specs
			Value	Spec		
Q3 933.636	10	10	2.10 e7	$\geq 8.0^e6$	0.7313	0.6 to 0.8
Q3 933.636	1000	50	8.17 e7	$\geq 4.0^e7$	0.7088	0.6 to 0.8

☒ Perform Product Ion scan using NEG PPG 3e-5M.

Mass	Scan Rate	Mca	MSMS Intensity		MSMS Width Value	Width Specs
			Value	Spec		
MSMS 45	10	10	2.97 e6	Read Only	0.6850	Read Only

☒ Perform ER POS 118.087 and 922.01 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

Mass	Fill Time (ms)	ER Intensity		ER Width Value	Width Specs
		Value	Spec		
ScanRate : 1000 Da/s ; 50 Mca					
ER 118.087	0.05	1.03 e7	≥7.2 e6	0.1483	<0.35
ER 922.010	0.05	5.37 e7	≥2.8 e6	0.2138	<0.35
ScanRate : 10000 Da/s ; 50 Mca					
ER 118.087	0.05	2.80 e7	≥2.4 e7	0.4635	<0.65
ER 922.010	0.05	1.33 e8	≥6.8 e7	0.6022	<0.65

☒ Perform ER NEG 431.982 and 601.978 using ESI Tuning Mix 1:100 in ES Tuning Dilution Solvent. Apply suggested Scan Rate and Record number of MCA. Mass calibrate to less than 0.1 amu.

Mass	Fill Time (ms)	ER Intensity		ER Width Value	Width Specs
		Value	Spec		
ScanRate : 1000 Da/s ; 50 Mca					
ER 431.982	0.05	3.53 e8	≥4.4 ^{e7}	0.1869	<0.35
ER 601.978	0.05	3.46 e8	≥5.6 ^{e7}	0.1883	<0.35
ScanRate : 10000 Da/s ; 50 Mca					
ER 431.982	0.05	1.08 e9	≥1.2 ^{e8}	0.4373	<0.65
ER 601.978	0.05	1.25 e9	≥1.6 ^{e8}	0.4196	<0.65

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QTRAP 5500

LC/MS/MS Detector System

Appendix ZEFPM003-2L

- ☒ Perform EPI POS 397.2 using Reserpine 0.167pmol/uL. Record 20 mca.

Mass	Scan Rate (Da/s)	Q0 Trapping OFF		Q0 Trapping ON	
		Intensity	Spec	Intensity	Spec
EPI 397.2	10000	> 2.8 e6	≥2.0 e6	> 1.0 e7	≥6.4 e6

- ☒ Perform MS3 POS full scan Fragmentation ON & OFF using Reserpine 0.167pmol/uL. Record 20 mca.

Mass	Scan Rate (Da/s)	Fragamentation OFF		Fragmentation ON	
		Intensity	Spec	Intensity	Spec
MS3 397.2	1000	Yes	Contains only 397.2	N/A	N/A
☐ 236 OR ☒ 365	1000	Yes	Fragment Intensity	> 4.5 e6	≥1.6x 10 ^{e6}

REVIEW:

- ☒ Attach all spectrums printouts to this procedure.
- ☒ If any parameter setting access modes were changed during the PM, ensure they are returned to their normal access mode and that their offsets are adjusted to match optimized values from the post-PM acquisition files.
- ☐ Empty tuning cache folder, if necessary. ☒ N/A
- ☒ Update Service Work Order status
- ☒ Fill and replace PM Label.

END OF PREVENTIVE MAINTENANCE CHECKLIST

Document history:

06 OCT 2016: Appendix ZEFPM003-2L: Removed requirements to fit Manufacturer's testing criteria.

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
KE95	PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)	KE94	-	-	181130-01
KE95	PFAS - DoD Low Level Labelled Extracted Internal Standards (SIS)	KE94	KE92	-	181203-06
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-02
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-04
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-01
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-08
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-03
KF43	PFAS - IR&D Combined LCS Solution	-	-	-	181017-02
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-07
KF43	PFAS - IR&D Combined LCS Solution	KE60	-	-	181203-05
KE96	PFAS - DoD Internal Standard Spiking Solution	KE93	-	-	180913-05
KF34	PFAS - DoD Calibration L1	KE42	-	-	181017-01
KF34	PFAS - DoD Calibration L1	KE93	-	-	180913-05
KF34	PFAS - DoD Calibration L1	KE94	-	-	181130-01
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-07
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-08
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-02
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-03
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-04
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-05
KF34	PFAS - DoD Calibration L1	KE73	KE72	KE61	181203-01
KF34	PFAS - DoD Calibration L1	KE94	KE92	-	181203-06
KF35	PFAS - DoD Calibration L2	KE94	KE92	-	181203-06
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-01
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-05
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-04
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-03
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-02
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-08
KF35	PFAS - DoD Calibration L2	KE73	KE72	KE61	181203-07
KF35	PFAS - DoD Calibration L2	KE94	-	-	181130-01
KF35	PFAS - DoD Calibration L2	KE93	-	-	180913-05
KF35	PFAS - DoD Calibration L2	KE42	-	-	181017-01
KF36	PFAS - DoD Calibration L3	KE93	-	-	180913-05
KF36	PFAS - DoD Calibration L3	KE94	-	-	181130-01
KF36	PFAS - DoD Calibration L3	KE94	KE92	-	181203-06
KF36	PFAS - DoD Calibration L3	KE41	-	-	181017-01
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-01
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-02
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-03
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-04
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-05
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-07
KF36	PFAS - DoD Calibration L3	KE72	KE61	-	181203-08
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-08
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-07
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-05
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-04
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-03
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-02
KF37	PFAS - DoD Calibration L4	KE72	KE61	-	181203-01
KF37	PFAS - DoD Calibration L4	KE41	-	-	181017-01
KF37	PFAS - DoD Calibration L4	KE94	KE92	-	181203-06
KF37	PFAS - DoD Calibration L4	KE94	-	-	181130-01
KF37	PFAS - DoD Calibration L4	KE93	-	-	180913-05
KF38	PFAS - DoD Calibration L5	KE93	-	-	180913-05
KF38	PFAS - DoD Calibration L5	KE94	-	-	181130-01
KF38	PFAS - DoD Calibration L5	KE94	KE92	-	181203-06

Battelle Standard ID	Description	Intermediate Solutions			Battelle Reagent ID (purchased solutions)
KF38	PFAS - DoD Calibration L5	KE41	-	-	181017-01
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-01
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-02
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-03
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-04
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-05
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-07
KF38	PFAS - DoD Calibration L5	KE72	KE61	-	181203-08
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-08
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-07
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-05
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-04
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-03
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-02
KF39	PFAS - DoD Calibration L6	KE72	KE61	-	181203-01
KF39	PFAS - DoD Calibration L6	KE94	KE92	-	181203-06
KF39	PFAS - DoD Calibration L6	KE41	-	-	181017-01
KF39	PFAS - DoD Calibration L6	KE94	-	-	181130-01
KF39	PFAS - DoD Calibration L6	KE93	-	-	180913-05
KF40	PFAS - DoD Calibration L7	KE94	-	-	181130-01
KF40	PFAS - DoD Calibration L7	KE41	-	-	181017-01
KF40	PFAS - DoD Calibration L7	KE93	-	-	180913-05
KF40	PFAS - DoD Calibration L7	KE94	KE92	-	181203-06
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-01
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-02
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-03
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-04
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-05
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-07
KF40	PFAS - DoD Calibration L7	KE72	KE61	-	181203-08
KF41	PFAS - DoD Instrument Blank	KE94	KE92	-	181203-06
KF41	PFAS - DoD Instrument Blank	KE93	-	-	180913-05
KF41	PFAS - DoD Instrument Blank	KE94	-	-	181130-01
KF42	PFAS - DoD ICC	KE94	-	-	181130-01
KF42	PFAS - DoD ICC	KF43	-	-	181017-02
KF42	PFAS - DoD ICC	KE93	-	-	180913-05
KF42	PFAS - DoD ICC	KE94	KE92	-	181203-06
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-01
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-02
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-04
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-03
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-05
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-07
KF42	PFAS - DoD ICC	KF43	KE60	-	181203-08

It can be done**BATTELLE - NORWELL OPERATIONS
SAMPLE PREPARATION RECORDS****Project Title(s)**

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)100122108-
CTOWE21**18-0718****CTO-WE21: Former Naval Air Station, Brunswick, Maine****GW, QC**

SOP Numbers (see workplan for modifications)

ExtractionSOP No. 5-370

This Batch Contains The Following Samples:

CS469PB-FS	J9990-FS	J9994-FS
CS470LCS-FS	J9991-FS	J9995-FS
I0064-FS	J9992-FS	J9996-FS
J9987-FS	J9992MS-FS	J9997-FS
J9988-FS	J9992MSD-FS	J9998-FS
J9989-FS	J9993-FS	J9999-FS

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Stephanie Schultz

Approved By:	Date	Initials
Denise Schumitz	12/21/2018	DMS

It can be done

**BATTELLE - NORWELL OPERATIONS
SAMPLE IDENTIFICATION PAGE****Project Title(s)**

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)100122108-
CTOWE21**18-0718****CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

Sample ID	Description
CS469PB-FS	Procedural Blank
CS470LCS-FS	Laboratory Control Sample
I0064-FS	NASB-CW-GW03-1218
J9987-FS	NASB-CW-GW04-1218
J9988-FS	NASB-CW-DUP-120618
J9989-FS	NASB-CW-GW-FB01-120618
J9990-FS	NASB-CW-GW-RB01-120618
J9991-FS	NASB-CW-GW01S-1218
J9992-FS	NASB-CW-GW01D-1218
J9992MS-FS	Matrix Spike of NASB-CW-GW01D-1218
J9992MSD-FS	Matrix Spike Duplicate of NASB-CW-GW01D-1218
J9993-FS	NASB-CW-GW02-1218
J9994-FS	MW-09-204-1218
J9995-FS	MW-B250-07-1218
J9996-FS	MW-09-22-1218
J9997-FS	MW-09-004-1218
J9998-FS	MW-NASB-072-1218
J9999-FS	NASB-09-GW-FB01-120618

Samples Assigned By:

Jonathan Thorn

Date : December 10, 2018

Comments:



It can be done

BATTELLE - NORWELL OPERATIONS LIQUID SAMPLE ID FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)

100122108-
CTOWE21

18-0718

**CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

Sample ID	Description	Volume (mL)	Bottles	*	Date Initials
CS469PB-FS	Procedural Blank	250.0	NA	--	12/13/18 KB
CS470LCS-FS	Laboratory Control Sample	250.0	NA	--	12/13/18 KB
I0064-FS	NASB-CW-GW03-1218	275.0	1	C	12/17/18 SAS
J9987-FS	NASB-CW-GW04-1218	265.0	1	C	12/17/18 SAS
J9988-FS	NASB-CW-DUP-120618	275.0	1	C	12/17/18 SAS
J9989-FS	NASB-CW-GW-FB01-120618	260.0	1	C	12/17/18 SAS
J9990-FS	NASB-CW-GW-RB01-120618	285.0	1	C	12/17/18 SAS
J9991-FS	NASB-CW-GW01S-1218	285.0	1	C	12/17/18 SAS
J9992-FS	NASB-CW-GW01D-1218	290.0	1	C	12/17/18 SAS
J9992MS-FS	Matrix Spike	285.0	3	C	12/17/18 SAS
J9992MSD-FS	Matrix Spike Duplicate	285.0	5	C	12/17/18 SAS
J9993-FS	NASB-CW-GW02-1218	275.0	1	C	12/17/18 SAS
J9994-FS	MW-09-204-1218	275.0	1	C	12/17/18 SAS
J9995-FS	MW-B250-07-1218	280.0	1	C	12/17/18 SAS
J9996-FS	MW-09-22-1218	270.0	1	C	12/17/18 SAS
J9997-FS	MW-09-004-1218	270.0	1	C	12/17/18 SAS
J9998-FS	MW-NASB-072-1218	275.0	1	C	12/17/18 SAS
J9999-FS	NASB-09-GW-FB01-120618	265.0	1	C	12/17/18 SAS

Comments:

Samples Assigned By

Jonathan Thorn

Date : December 10, 2018

* - "C" = Sample is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)

100122108-
CTOWE21

18-0718

**CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CS469PB-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
CS470LCS-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
CS470LCS-FS	KF43	LCS/MS	1	50	12/13/18 KB	SAS	NA
I0064-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9987-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9988-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9989-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9990-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9991-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9992-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9992MS-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9992MS-FS	KF43	LCS/MS	1	150	12/13/18 KB	SAS	NA
J9992MSD-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9992MSD-FS	KF43	LCS/MS	1	150	12/13/18 KB	SAS	NA
J9993-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9994-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9995-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9996-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9997-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9998-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA
J9999-FS	KE95	SIS	1	50	12/13/18 KB	SAS	NA



It can be done

BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine 100122108-

Project No.(s)

CTOWE21

18-0718**CTO-WE21: Former Naval Air Station, Brunswick, Maine****GW, QC****(N/A Fraction)**

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
CS469PB-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
CS470LCS-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
I0064-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
I0064-FS-D(3)	955	45	KE96	50	1	1000	10.000	12/17/18 KB	LMG
J9987-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9987-FS-D(3)	960	40	KE96	50	1	1000	5.000	12/17/18 KB	LMG
J9988-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9988-FS-D(3)	975	25	KE96	50	1	1000	2.000	12/17/18 KB	LMG
J9989-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9990-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9990-FS-D(3)	970	30	KE96	50	1	1000	2.500	12/17/18 KB	LMG
J9991-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9991-FS-D(3)	975	25	KE96	50	1	1000	2.000	12/17/18 KB	LMG
J9992-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9992MS-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9992MSD-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9993-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9994-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9995-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

BATTELLE - NORWELL OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine 100122108-

Project No.(s)

CTOWE21

18-0718

**CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
J9995-FS-D(3)	975	25	KE96	50	1	1000	2.000	12/17/18 KB	LMG
J9996-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9997-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9997-FS-D(3)	975	25	KE96	50	1	1000	2.000	12/17/18 KB	LMG
J9998-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG
J9998-FS-D(3)	975	25	KE96	50	1	1000	2.000	12/17/18 KB	LMG
J9999-FS(0)	950	50	KE96	50	1	1000	1.000	12/17/18 KB	LMG

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
KE95	Pipette	B814659662
KE96	Pipette	B814659662

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



It can be done

BATTELLE - NORWELL OPERATIONS EXTRACT SPIKE FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine 100122108-

Project No.(s)

CTOWE21

18-0718

CTO-WE21: Former Naval Air Station, Brunswick, Maine

GW, QC

Extract Id	DF	Std. ID	Type	Vial No.	Vol. Added (uL)	Conc (ug/mL)	Added (ng)	Date Spiked/ Spiked By	With'd By
I0064-FS-D(3)	10	KE95	SIS	1	45	0	0	12/17/18 KB	LMG
J9987-FS-D(3)	5	KE95	SIS	1	40	0	0	12/17/18 KB	LMG
J9988-FS-D(3)	2	KE95	SIS	1	25	0	0	12/17/18 KB	LMG
J9990-FS-D(3)	2.5	KE95	SIS	1	30	0	0	12/17/18 KB	LMG
J9991-FS-D(3)	2	KE95	SIS	1	25	0	0	12/17/18 KB	LMG
J9995-FS-D(3)	2	KE95	SIS	1	25	0	0	12/17/18 KB	LMG
J9997-FS-D(3)	2	KE95	SIS	1	25	0	0	12/17/18 KB	LMG
J9998-FS-D(3)	2	KE95	SIS	1	25	0	0	12/17/18 KB	LMG

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
KE95	Pipette	B814659662
KE96	Pipette	B814659662



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)100122108-
CTOWE21**18-0718****CTO-WE21: Former Naval Air Station, Brunswick, Maine****GW, QC**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CS469PB-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
CS470LCS-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
I0064-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
I0064-FS	2	--	12/17/2018 1:22:00 PM	I0064-FS	0	1000	900	1.111	1.111	12/17/18 KB
I0064-FS-D	3	--	12/17/2018 1:22:00 PM	I0064-FS	0	1000	100	10.000	10.000	12/17/18 KB
J9987-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9987-FS	2	--	12/17/2018 1:26:00 PM	J9987-FS	0	1000	800	1.250	1.250	12/17/18 KB
J9987-FS-D	3	--	12/17/2018 1:26:00 PM	J9987-FS	0	1000	200	5.000	5.000	12/17/18 KB
J9988-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9988-FS	2	--	12/17/2018 1:30:00 PM	J9988-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9988-FS-D	3	--	12/17/2018 1:30:00 PM	J9988-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9989-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9990-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9990-FS	2	--	12/17/2018 1:35:00 PM	J9990-FS	0	1000	600	1.667	1.667	12/17/18 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)100122108-
CTOWE21**18-0718****CTO-WE21: Former Naval Air Station, Brunswick, Maine****GW, QC**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J9990-FS-D	3	--	12/17/2018 1:35:00 PM	J9990-FS	0	1000	400	2.500	2.500	12/17/18 KB
J9991-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9991-FS	2	--	12/17/2018 1:30:00 PM	J9991-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9991-FS-D	3	--	12/17/2018 1:30:00 PM	J9991-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9992-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9992MS-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9992MSD-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9993-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9994-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9995-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9995-FS	2	--	12/17/2018 1:30:00 PM	J9995-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9995-FS-D	3	--	12/17/2018 1:30:00 PM	J9995-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9996-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9997-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)100122108-
CTOWE21**18-0718****CTO-WE21: Former Naval Air Station, Brunswick, Maine****GW, QC**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
J9997-FS	2	--	12/17/2018 1:30:00 PM	J9997-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9997-FS-D	3	--	12/17/2018 1:30:00 PM	J9997-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9998-FS	0	C	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB
J9998-FS	2	--	12/17/2018 1:30:00 PM	J9998-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9998-FS-D	3	--	12/17/2018 1:30:00 PM	J9998-FS	0	1000	500	2.000	2.000	12/17/18 KB
J9999-FS	0	--	12/13/2018 11:17:00 AM	NA		NA	NA	1.000	1.000	12/13/18 KB

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



It can be done

BATTELLE - NORWELL OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine 100122108-
CTOWE21

Project No.(s)

18-0718

**CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

Purpose: LC-MS/MS TRANSFER		Last Activity: Prep->Inst	
Relinquished On/By: Dec 19 2018 4:43PM KB		Received On/By: Dec 19 2018 5:07PM LMG	
Relinquished From: Sample Preparation: NA		Received Location: LC Laboratory: NA	
Relinquish Comment: NA		Received Comment: NA	

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CS469PB-FS(0)	1000	1	Intact	NA
2	CS470LCS-FS(0)	1000	1	Intact	NA
3	I0064-FS(0)	1000	1	Intact	NA
4	I0064-FS-D(3)	1000	10	Intact	NA
5	J9987-FS(0)	1000	1	Intact	NA
6	J9987-FS-D(3)	1000	5	Intact	NA
7	J9988-FS(0)	1000	1	Intact	NA
8	J9988-FS-D(3)	1000	2	Intact	NA
9	J9989-FS(0)	1000	1	Intact	NA
10	J9990-FS(0)	1000	1	Intact	NA
11	J9990-FS-D(3)	1000	2.5	Intact	NA
12	J9991-FS(0)	1000	1	Intact	NA
13	J9991-FS-D(3)	1000	2	Intact	NA
14	J9992-FS(0)	1000	1	Intact	NA
15	J9992MS-FS(0)	1000	1	Intact	NA
16	J9992MSD-FS(0)	1000	1	Intact	NA
17	J9993-FS(0)	1000	1	Intact	NA
18	J9994-FS(0)	1000	1	Intact	NA
19	J9995-FS(0)	1000	1	Intact	NA
20	J9995-FS-D(3)	1000	2	Intact	NA
21	J9996-FS(0)	1000	1	Intact	NA
22	J9997-FS(0)	1000	1	Intact	NA
23	J9997-FS-D(3)	1000	2	Intact	NA
24	J9998-FS(0)	1000	1	Intact	NA
25	J9998-FS-D(3)	1000	2	Intact	NA
26	J9999-FS(0)	1000	1	Intact	NA

Total Extracts: 26



It can be done

BATTELLE - NORWELL OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.(s)

100122108-
CTOWE21

18-0718

**CTO-WE21: Former Naval Air Station, Brunswick, Maine
GW, QC**

Sample ID:	Comment:	Date/Initials:
CS469PB-FS	Extraction started 11:17am, extraction block 1, ended 12:22pm	12/13/18 KB
CS470LCS-FS	Extraction started 11:17am, extraction block 1, ended 12:23pm	12/13/18 KB
I0064-FS	Extraction started 2:52pm, extraction block 1, ended 4:18pm	12/13/18 KB
J9987-FS	Extraction started 11:17am, extraction block 1, ended 12:32pm	12/13/18 KB
J9988-FS	Extraction started 11:17am, extraction block 1, ended 12:30pm	12/13/18 KB
J9989-FS	Extraction started 11:17am, extraction block 1, ended 12:23pm	12/13/18 KB
J9990-FS	Extraction started 11:17am, extraction block 1, ended 12:32 pm	12/13/18 KB
J9991-FS	Extraction started 11:17am, extraction block 1, ended 12:38pm	12/13/18 KB
J9992-FS	Extraction started 2:52pm, extraction block 1, ended 4:06pm	12/13/18 KB
J9992MS-FS	Extraction started 2:52pm, extraction block 1, ended 4:06pm	12/13/18 KB
J9992MSD-FS	Extraction started 2:52pm, extraction block 1, ended 4:05pm	12/13/18 KB
J9993-FS	Extraction started 2:52pm, extraction block 1, ended 4:55pm	12/13/18 KB
J9993-FS	Sample contained some algae, which clogged the filter. The filter was popped to allow the sample to pass through the column.	12/13/18 KB
J9994-FS	Extraction started 2:52pm, extraction block 1, ended 4:06pm	12/13/18 KB
J9995-FS	Extraction started 2:52pm, extraction block 1, ended 4:06pm	12/13/18 KB
J9996-FS	Extraction started 2:52pm, extraction block 1, ended 4:14pm	12/13/18 KB
J9997-FS	Extraction started 2:52pm, extraction block 1, ended 4:02pm	12/13/18 KB
J9998-FS	Extraction started 11:17am, extraction block 1, ended 12:34pm	12/13/18 KB
J9999-FS	Extraction started 11:17am, extraction block 1, ended 12:20pm	12/13/18 KB



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project No.: 100122108-CTOWE21

Client ID	KF41 IB				
Battelle ID	KF41 IB_12/14/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	12/14/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L MDL LOD LOQ				
PFBA	375-22-4	0.50 U	0.14	0.50	5.00
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDoA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.14 J	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	93
13C5-PFHxA	94
13C4-PFHpA	96
13C8-PFOA	98
13C9-PFNA	103
13C6-PFDA	101
13C7-PFUnA	96
13C2-PFDoA	86
13C2-PFTeDA	92
d3-MeFOSAA	95
d5-EtFOSAA	98
13C3-PFBS	97
13C3-PFHxS	90
13C8-PFOS	93

NO ACTION, NO SAMPLES ASSOCIATED, CLEAN IB ANALYZED BEFORE SAMPLES



Project Client: Tetra Tech
 Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
 Project No.: 100122108-CTOWE21

Client ID	KF41 IB				
Battelle ID	KF41 IB_12/19/2018				
Sample Type	IB				
Collection Date	NA				
Extraction Date	NA				
Analysis Date	12/19/2018				
Analytical Instrument	Sciex 5500 LC/MS/MS				
% Moisture	NA				
Matrix	Water				
Sample Size	0.250				
Size Unit-Basis	L				
Units	ng/L MDL LOD LOQ				
PFBA	375-22-4	0.50 U	0.14	0.50	5.00
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	0.50 U	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDoA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	108
13C5-PFHxA	93
13C4-PFHpA	100
13C8-PFOA	106
13C9-PFNA	115
13C6-PFDA	99
13C7-PFUnA	89
13C2-PFDoA	85
13C2-PFTeDA	73
d3-MeFOSAA	98
d5-EtFOSAA	92
13C3-PFBS	84
13C3-PFHxS	79
13C8-PFOS	95

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID

Procedural Blank

Battelle ID

CS469PB-FS

Sample Type

PB

Collection Date

12/13/2018

Extraction Date

12/13/2018

Analysis Date

12/19/2018

Analytical Instrument

Sciex 5500 LC/MS/MS

% Moisture

NA

Matrix

WATER

Sample Size

0.250

Size Unit-Basis

L

Units

ng/L

MDL

LOD

LOQ

PFBA	375-22-4	0.50 U	0.14	0.50	5.00
PFHxA	307-24-4	0.50 U	0.19	0.50	5.00
PFHpA	375-85-9	0.50 U	0.16	0.50	5.00
PFOA	335-67-1	1.57 J	0.18	0.50	5.00
PFNA	375-95-1	1.00 U	0.26	1.00	5.00
PFDA	335-76-2	0.50 U	0.16	0.50	5.00
PFUnA	2058-94-8	1.00 U	0.29	1.00	5.00
PFDoA	307-55-1	0.50 U	0.18	0.50	5.00
PFTeDA	72629-94-8	0.50 U	0.15	0.50	5.00
PFTeDA	376-06-7	1.00 U	0.25	1.00	5.00
NMeFOSAA	2355-31-9	2.00 U	0.56	2.00	5.00
NEtFOSAA	2991-50-6	1.00 U	0.49	1.00	5.00
PFBS	375-73-5	0.50 U	0.13	0.50	5.00
PFHxS	355-46-4	0.40 U	0.11	0.40	5.00
PFOS	1763-23-1	0.50 U	0.19	0.50	5.00

Surrogate Recoveries (%)

13C4-PFBA	102
13C5-PFHxA	127
13C4-PFHpA	128
13C8-PFOA	130
13C9-PFNA	149
13C6-PFDA	126
13C7-PFUnA	120
13C2-PFDoA	110
13C2-PFTeDA	103
d3-MeFOSAA	111
d5-EtFOSAA	112
13C3-PFBS	94
13C3-PFHxS	101
13C8-PFOS	113

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech

Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine

Project No.: 100122108-CTOWE21

Client ID		Laboratory Control Sample						
Battelle ID		CS470LCS-FS						
Sample Type		LCS						
Collection Date		12/13/2018						
Extraction Date		12/13/2018						
Analysis Date		12/19/2018						
Analytical Instrument		Sciex 5500 LC/MS/MS						
% Moisture		NA						
Matrix		WATER						
Sample Size		0.250						
Size Unit-Basis		L						
Units		ng/L		Target	Recovery	Qual	Control Limits	
							Lower	Upper
PFBA	375-22-4	11.13		10.00	111		61	139
PFHxA	307-24-4	10.58		10.10	105		51	137
PFHpA	375-85-9	9.96		10.00	100		48	136
PFOA	335-67-1	10.49 B		10.00	105		49	141
PFNA	375-95-1	8.88		10.00	89		58	122
PFDA	335-76-2	9.37		10.00	94		59	135
PFUnA	2058-94-8	10.67		10.00	107		64	134
PFDoA	307-55-1	10.46		10.00	105		75	131
PFTTrDA	72629-94-8	10.01		10.00	100		42	148
PFTeDA	376-06-7	10.17		10.00	102		42	158
NMeFOSAA	2355-31-9	9.70		10.00	97		50	146
NEtFOSAA	2991-50-6	9.40		10.00	94		51	131
PFBS	375-73-5	9.84		10.10	97		56	134
PFHxS	355-46-4	8.99		10.10	89		52	128
PFOS	1763-23-1	9.80		10.00	98		40	144

Surrogate Recoveries (%)

13C4-PFBA	89
13C5-PFHxA	98
13C4-PFHpA	94
13C8-PFOA	104
13C9-PFNA	113
13C6-PFDA	111
13C7-PFUnA	101
13C2-PFDoA	100
13C2-PFTeDA	96
d3-MeFOSAA	101
d5-EtFOSAA	96
13C3-PFBS	100
13C3-PFHxS	96
13C8-PFOS	107

Analyzed by: Schumitz, Denise

Printed: 12/28/2018

Isotope Dilution

L18-0718_Master_369.xlsm



Project Client: Tetra Tech
Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
Project No.: 100122108-CTOWE21

Client ID		NASB-CW-GW01D-1218	NASB-CW-GW01D-1218					
Battelle ID		J9992-FS	J9992MS-FS					
Sample Type		SA	MS					
Collection Date		12/06/2018	12/06/2018					
Extraction Date		12/13/2018	12/13/2018					
Analysis Date		12/19/2018	12/19/2018					
Analytical Instrument		Sciex 5500 LC/MS/MS	Sciex 5500 LC/MS/MS					
% Moisture		NA	NA					
Matrix		GW	GW					
Sample Size		0.290	0.285					
Size Unit-Basis		L	L					
Units		ng/L	ng/L	Target	Recovery	Qual	Control Limits	
							Lower	Upper
PFBA	375-22-4	0.18 J	27.47	26.32	104		61	139
PFHxA	307-24-4	0.43 U	27.64	26.58	104		51	137
PFHpA	375-85-9	0.43 U	25.31	26.32	96		48	136
PFOA	335-67-1	1.38 J	26.66	26.32	96		49	141
PFNA	375-95-1	0.86 U	25.50	26.32	97		58	122
PFDA	335-76-2	0.43 U	26.61	26.32	101		59	135
PFUnA	2058-94-8	0.86 U	27.22	26.32	103		64	134
PFDoA	307-55-1	0.43 U	27.15	26.32	103		75	131
PFTrDA	72629-94-8	0.43 U	27.48	26.32	104		42	148
PFTeDA	376-06-7	0.86 U	27.62	26.32	105		42	158
NMeFOSAA	2355-31-9	1.72 U	23.02	26.32	87		50	146
NEtFOSAA	2991-50-6	0.86 U	26.82	26.32	102		51	131
PFBS	375-73-5	0.43 U	24.44	26.58	92		56	134
PFHxS	355-46-4	0.43 J	25.28	26.58	93		52	128
PFOS	1763-23-1	0.33 J	26.49	26.32	99		40	144
Surrogate Recoveries (%)								
13C4-PFBA		76	82					
13C5-PFHxA		90	99					
13C4-PFHpA		107	103					
13C8-PFOA		94	96					
13C9-PFNA		107	97					
13C6-PFDA		90	87					
13C7-PFUnA		92	86					
13C2-PFDoA		91	88					
13C2-PFTeDA		88	86					
d3-MeFOSAA		66	89					
d5-EtFOSAA		79	75					
13C3-PFBS		109	111					
13C3-PFHxS		71	90					
13C8-PFOS		98	88					



Project Client: Tetra Tech
Project Name: CTO-WE21: Former Naval Air Station, Brunswick, Maine
Project No.: 100122108-CTOWE21

Client ID		NASB-CW-GW01D-1218								
Battelle ID		J9992MSD-FS								
Sample Type		MSD								
Collection Date		12/06/2018								
Extraction Date		12/13/2018								
Analysis Date		12/19/2018								
Analytical Instrument		Sciex 5500 LC/MS/MS								
% Moisture		NA								
Matrix		GW								
Sample Size		0.285								
Size Unit-Basis		L								
Units		ng/L	Target	Recovery	Qual	Control Limits		RPD	Qual	RPD Limit
						Lower	Upper			
PFBA	375-22-4	27.29	26.32	103		61	139	1.0		≤ 30
PFHxA	307-24-4	27.69	26.58	104		51	137	0.0		≤ 30
PFHpA	375-85-9	24.96	26.32	95		48	136	1.0		≤ 30
PFOA	335-67-1	26.45	26.32	95		49	141	1.0		≤ 30
PFNA	375-95-1	23.32	26.32	89		58	122	8.6		≤ 30
PFDA	335-76-2	25.58	26.32	97		59	135	4.0		≤ 30
PFUnA	2058-94-8	27.68	26.32	105		64	134	1.9		≤ 30
PFDoA	307-55-1	27.14	26.32	103		75	131	0.0		≤ 30
PFTrDA	72629-94-8	26.87	26.32	102		42	148	1.9		≤ 30
PFTeDA	376-06-7	27.11	26.32	103		42	158	1.9		≤ 30
NMeFOSAA	2355-31-9	26.16	26.32	99		50	146	12.9		≤ 30
NEtFOSAA	2991-50-6	25.66	26.32	98		51	131	4.0		≤ 30
PFBS	375-73-5	25.15	26.58	95		56	134	3.2		≤ 30
PFHxS	355-46-4	29.43	26.58	109		52	128	15.8		≤ 30
PFOS	1763-23-1	28.97	26.32	109		40	144	9.6		≤ 30
Surrogate Recoveries (%)										
13C4-PFBA		81								
13C5-PFHxA		96								
13C4-PFHpA		105								
13C8-PFOA		94								
13C9-PFNA		103								
13C6-PFDA		85								
13C7-PFUnA		79								
13C2-PFDoA		82								
13C2-PFTeDA		80								
d3-MeFOSAA		84								
d5-EtFOSAA		80								
13C3-PFBS		126								
13C3-PFHxS		89								
13C8-PFOS		97								



Sequence Report

Created with Analyst Reporter
Printed: 20/12/2018 2:10:56 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
28	MeOH		12/14/2018 9:35:22 PM	5-0369.dam	AC_12142018_5-0369.wiff
29	KF34	L1	12/14/2018 9:46:13 PM	5-0369.dam	AC_12142018_5-0369.wiff
30	KF35	L2	12/14/2018 9:57:05 PM	5-0369.dam	AC_12142018_5-0369.wiff
31	KF36	L3	12/14/2018 10:07:57 PM	5-0369.dam	AC_12142018_5-0369.wiff
32	KF37	L4	12/14/2018 10:18:49 PM	5-0369.dam	AC_12142018_5-0369.wiff
33	KF38	L5	12/14/2018 10:29:41 PM	5-0369.dam	AC_12142018_5-0369.wiff
34	KF39	L6	12/14/2018 10:40:33 PM	5-0369.dam	AC_12142018_5-0369.wiff
35	KF40	L7	12/14/2018 10:51:24 PM	5-0369.dam	AC_12142018_5-0369.wiff
36	KF41 IB	Instrument Blank	12/14/2018 11:02:16 PM	5-0369.dam	AC_12142018_5-0369.wiff
37	KF42 ICC	ICC	12/14/2018 11:13:07 PM	5-0369.dam	AC_12142018_5-0369.wiff
38	KC75 Branch	Branch Standard	12/14/2018 11:23:59 PM	5-0369.dam	AC_12142018_5-0369.wiff



Sequence Report

Created with Analyst Reporter
Printed: 20/12/2018 2:13:32 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File
4	KF37 ISC	Instrument Sensitivity Check	12/19/2018 12:42:56 PM	5-0369.dam	AC_12192018_5-369.wiff
5	KF41 IB	Instrument Blank	12/19/2018 12:53:47 PM	5-0369.dam	AC_12192018_5-369.wiff
6	I0169-FS(0)		12/19/2018 1:04:30 PM	5-0369.dam	AC_12192018_5-369.wiff
7	I0172-FS(0)		12/19/2018 1:15:31 PM	5-0369.dam	AC_12192018_5-369.wiff
3	MEOH		12/19/2018 1:26:23 PM	5-0369.dam	AC_12192018_5-369.wiff
8	I0160MS-FS-D(3)		12/19/2018 1:37:15 PM	5-0369.dam	AC_12192018_5-369.wiff
9	I0160MSD-FS-D(3)		12/19/2018 1:48:06 PM	5-0369.dam	AC_12192018_5-369.wiff
3	MEOH		12/19/2018 1:58:57 PM	5-0369.dam	AC_12192018_5-369.wiff
10	KF38-CCV	CCV	12/19/2018 2:09:50 PM	5-0369.dam	AC_12192018_5-369.wiff
3	MEOH		12/19/2018 2:20:41 PM	5-0369.dam	AC_12192018_5-369.wiff
3	MEOH		12/19/2018 2:31:33 PM	5-0369.dam	AC_12192018_5-369.wiff
4	MEOH		12/19/2018 5:18:58 PM	5-0369.dam	AC_12192018_5-369.wiff
3	KF37 CCV	CCV	12/19/2018 5:29:51 PM	5-0369.dam	AC_12192018_5-369.wiff
4	MEOH		12/19/2018 5:40:43 PM	5-0369.dam	AC_12192018_5-369.wiff
5	CS469PB-FS(0)	Procedural Blank	12/19/2018 5:51:36 PM	5-0369.dam	AC_12192018_5-369.wiff
6	CS470LCS-FS(0)	Laboratory Control Sample	12/19/2018 6:02:28 PM	5-0369.dam	AC_12192018_5-369.wiff
7	J9989-FS(0)	NASB-CW-GW-FB01-120618	12/19/2018 6:13:20 PM	5-0369.dam	AC_12192018_5-369.wiff
8	J9999-FS(0)	NASB-09-GW-FB01-120618	12/19/2018 6:24:12 PM	5-0369.dam	AC_12192018_5-369.wiff
9	J9992-FS(0)	NASB-CW-GW01D-1218	12/19/2018 6:35:04 PM	5-0369.dam	AC_12192018_5-369.wiff
10	J9992MS-FS(0)	NASB-CW-GW01D-1218	12/19/2018 6:45:55 PM	5-0369.dam	AC_12192018_5-369.wiff
11	J9992MSD-FS(0)	NASB-CW-GW01D-1218	12/19/2018 6:56:47 PM	5-0369.dam	AC_12192018_5-369.wiff
12	J9993-FS(0)	NASB-CW-GW02-1218	12/19/2018 7:07:41 PM	5-0369.dam	AC_12192018_5-369.wiff
13	J9994-FS(0)	MW-09-204-1218	12/19/2018 7:18:33 PM	5-0369.dam	AC_12192018_5-369.wiff
14	J9996-FS(0)	MW-09-22-1218	12/19/2018 7:29:26 PM	5-0369.dam	AC_12192018_5-369.wiff
15	KF38 CCV	CCV	12/19/2018 7:40:19 PM	5-0369.dam	AC_12192018_5-369.wiff
16	MEOH		12/19/2018 7:51:11 PM	5-0369.dam	AC_12192018_5-369.wiff
17	J9987-FS(0)	NASB-CW-GW04-1218	12/19/2018 8:02:03 PM	5-0369.dam	AC_12192018_5-369.wiff
18	J9987-FS-D(3)	NASB-CW-GW04-1218	12/19/2018 8:12:55 PM	5-0369.dam	AC_12192018_5-369.wiff
19	J9988-FS(0)	NASB-CW-DUP-120618	12/19/2018 8:23:47 PM	5-0369.dam	AC_12192018_5-369.wiff
20	J9988-FS-D(3)	NASB-CW-DUP-120618	12/19/2018 8:34:30 PM	5-0369.dam	AC_12192018_5-369.wiff
21	J9990-FS(0)	NASB-CW-GW-RB01-120618	12/19/2018 8:45:32 PM	5-0369.dam	AC_12192018_5-369.wiff
22	J9990-FS-D(3)	NASB-CW-GW-RB01-120618	12/19/2018 8:56:25 PM	5-0369.dam	AC_12192018_5-369.wiff
23	J9991-FS(0)	NASB-CW-GW01S-1218	12/19/2018 9:07:18 PM	5-0369.dam	AC_12192018_5-369.wiff
24	J9991-FS-D(3)	NASB-CW-GW01S-1218	12/19/2018 9:18:09 PM	5-0369.dam	AC_12192018_5-369.wiff
25	KF37 CCV	CCV	12/19/2018 9:29:02 PM	5-0369.dam	AC_12192018_5-369.wiff
26	MEOH		12/19/2018 9:39:53 PM	5-0369.dam	AC_12192018_5-369.wiff
27	J9995-FS(0)	MW-B250-07-1218	12/19/2018 9:50:45 PM	5-0369.dam	AC_12192018_5-369.wiff
28	J9995-FS-D(3)	MW-B250-07-1218	12/19/2018 10:01:37 PM	5-0369.dam	AC_12192018_5-369.wiff
29	J9997-FS(0)	MW-09-004-1218	12/19/2018 10:12:29 PM	5-0369.dam	AC_12192018_5-369.wiff

1 Samples from another batch not reported with this one. DMS 12/27/2018

2 Dilutions made and run but not needed. DMS 12/27/2018



Sequence Report

Created with Analyst Reporter
Printed: 20/12/2018 2:13:32 PM

Vial	Laboratory Sample ID	Client Sample ID	Acquisition Date	Acquisition Method	Data File	
30	J9997 FS D(3)	MW 09 004 1218	12/19/2018 10:23:21 PM	5-0369.dam	AC_12192018_5-369.wiff	1
31	J9998-FS(0)	MW-NASB-072-1218	12/19/2018 10:34:13 PM	5-0369.dam	AC_12192018_5-369.wiff	
32	J9998 FS D(3)	MW-NASB-072-1218	12/19/2018 10:45:04 PM	5-0369.dam	AC_12192018_5-369.wiff	1
33	I0064-FS(0)	NASB-CW-GW03-1218	12/19/2018 10:55:55 PM	5-0369.dam	AC_12192018_5-369.wiff	
34	I0064 FS D(3)	NASB-CW-GW03-1218	12/19/2018 11:06:46 PM	5-0369.dam	AC_12192018_5-369.wiff	1
35	KF38 CCV	CCV	12/19/2018 11:17:39 PM	5-0369.dam	AC_12192018_5-369.wiff	

1Dilutions made and run but not needed. DMS 12/27/2018



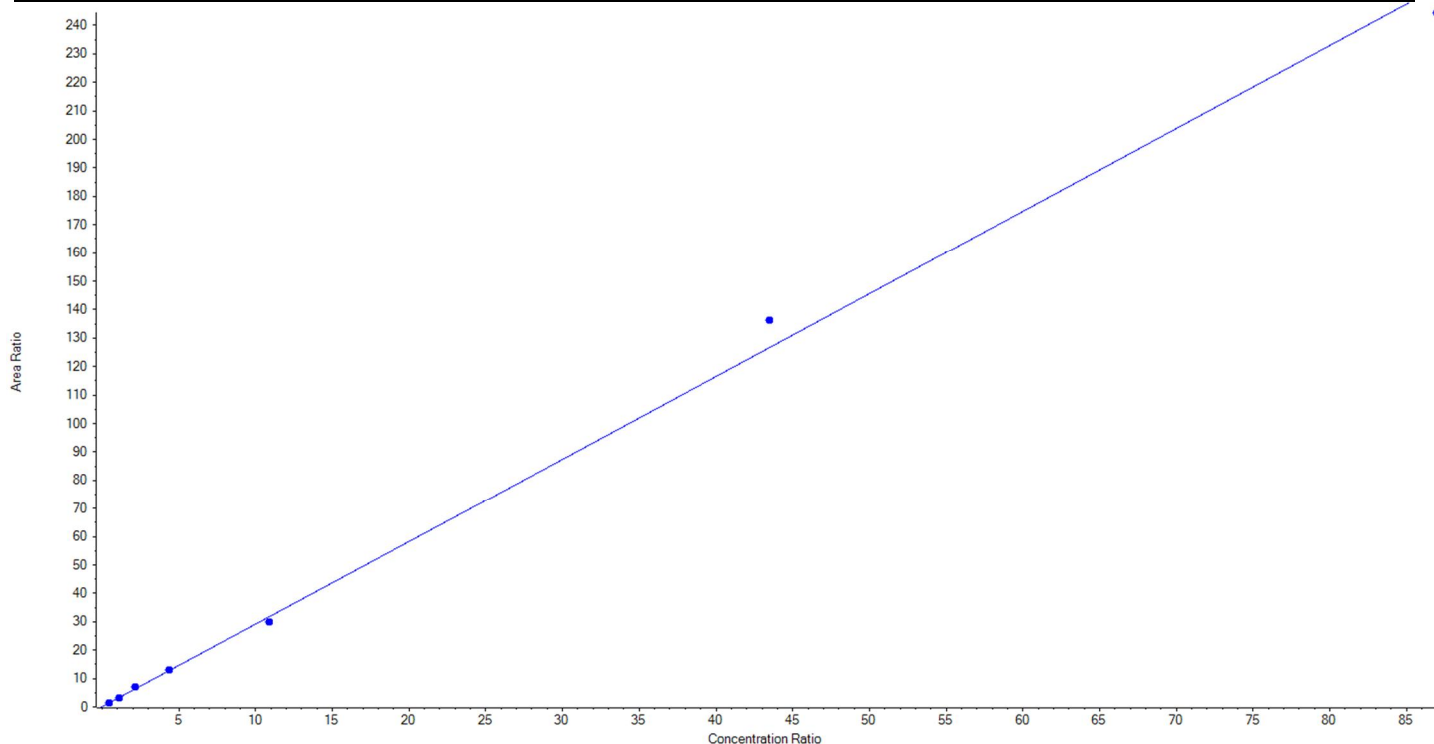
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	PFBS_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	298.9 / 80.0	Result Table	18-0718
Internal Standard	13C3-PFBS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 2.91046 x + 0.06786$ ($r = 0.99845$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	93.223883	92.3
30	KF35	L2	True	252.50	242.987284	96.2
31	KF36	L3	True	505.00	554.189348	109.7
32	KF37	L4	True	1010.00	1038.309759	102.8
33	KF38	L5	True	2525.00	2390.945288	94.7
34	KF39	L6	True	10100.00	10881.064908	107.7
35	KF40	L7	True	20200.00	19492.779530	96.5





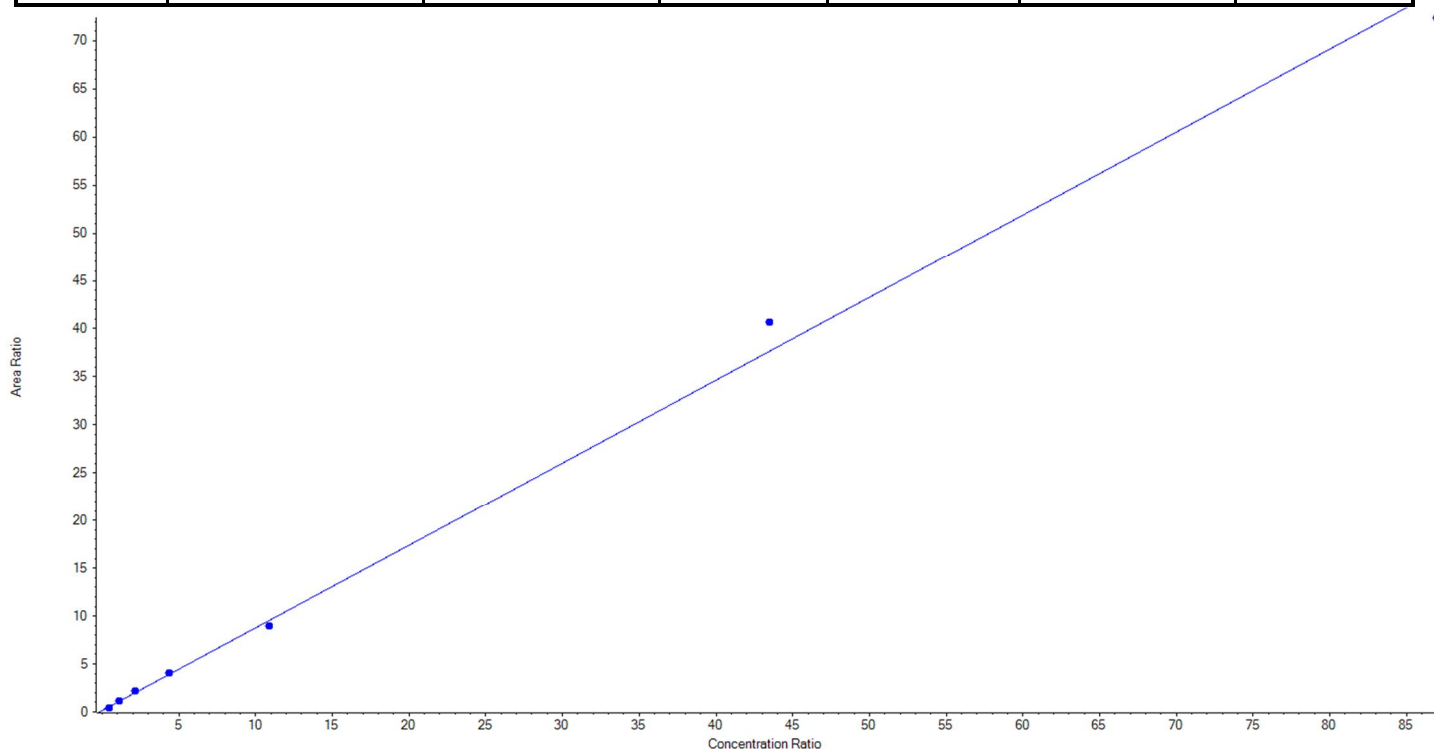
Calibration Summary Report

Created with Analyst Reporter
Printed: 20/12/2018 1:38:02 PM

Analyte Name	PFBS_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	298.9 / 99.0	Result Table	18-0718
Internal Standard	13C3-PFBS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.86241 x + 0.14973$ ($r = 0.99823$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	85.559563	84.7
30	KF35	L2	True	252.50	263.945751	104.5
31	KF36	L3	True	505.00	548.689269	108.7
32	KF37	L4	True	1010.00	1049.001640	103.9
33	KF38	L5	True	2525.00	2367.499359	93.8
34	KF39	L6	True	10100.00	10926.024528	108.2
35	KF40	L7	True	20200.00	19452.779891	96.3





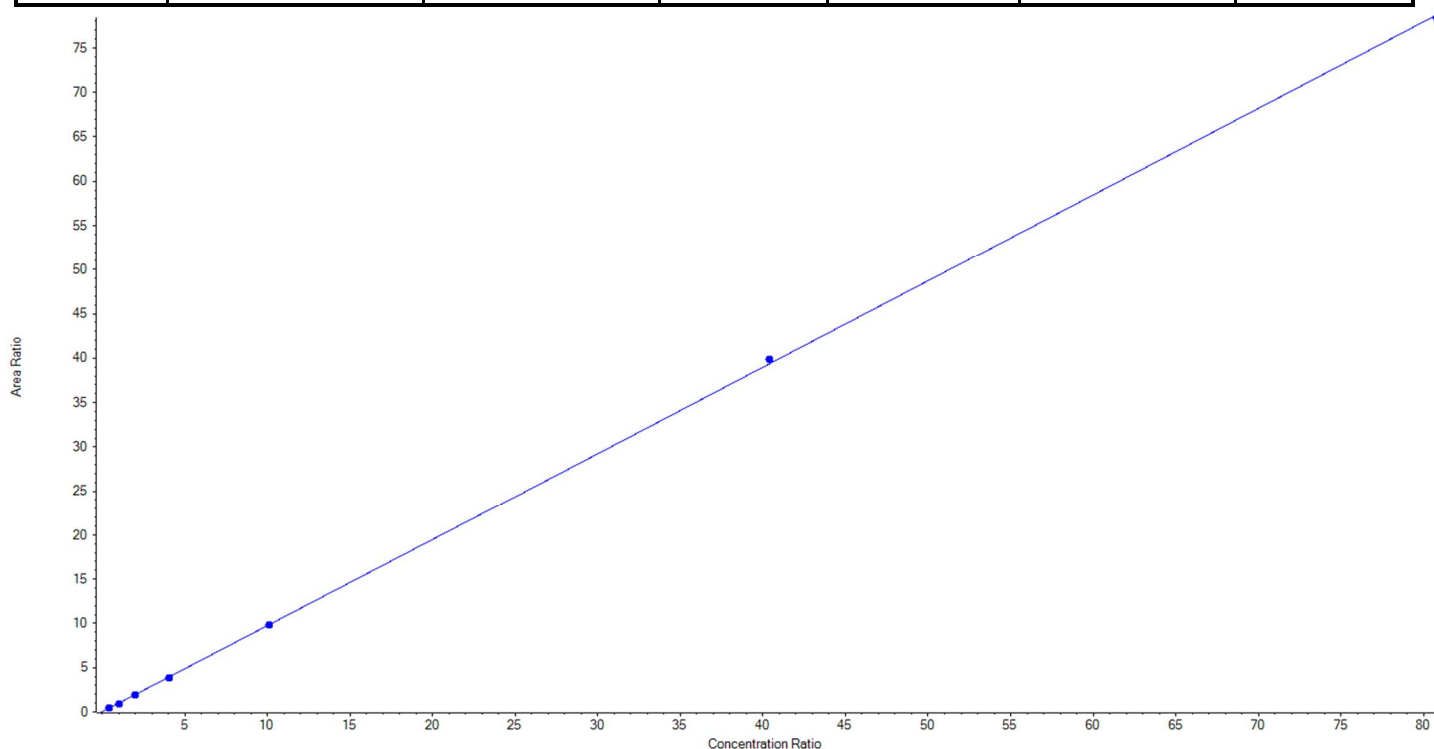
Calibration Summary Report

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Analyte Name	PFHxA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	313.0 / 269.0	Result Table	18-0718
Internal Standard	13C5-PFHxA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.97425x + 0.00449$ ($r = 0.99994$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	108.898472	107.8
30	KF35	L2	True	252.50	239.344191	94.8
31	KF36	L3	True	505.00	501.312313	99.3
32	KF37	L4	True	1010.00	988.213650	97.8
33	KF38	L5	True	2525.00	2509.264316	99.4
34	KF39	L6	True	10100.00	10235.423208	101.3
35	KF40	L7	True	20200.00	20111.043850	99.6





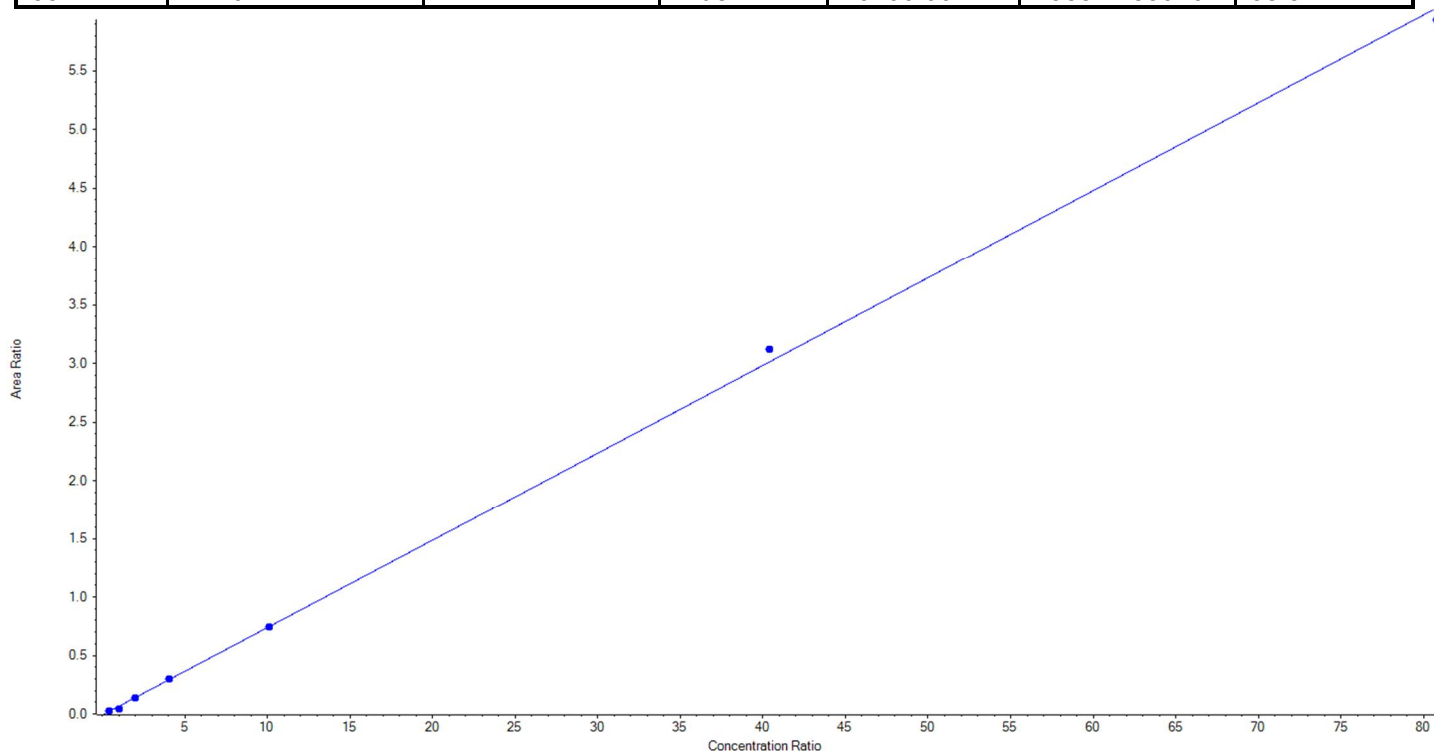
Calibration Summary Report

Created with Analyst Reporter
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Analyte Name	PFHxA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	313.0 / 119.0	Result Table	18-0718
Internal Standard	13C5-PFHxA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.07484 x + -0.01026$ ($r = 0.99933$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	123.799555	122.6
30	KF35	L2	True	252.50	185.616254	73.5
31	KF36	L3	True	505.00	498.892288	98.8
32	KF37	L4	True	1010.00	1043.210273	103.3
33	KF38	L5	True	2525.00	2524.118590	100.0
34	KF39	L6	True	10100.00	10460.079964	103.6
35	KF40	L7	True	20200.00	19857.783076	98.3





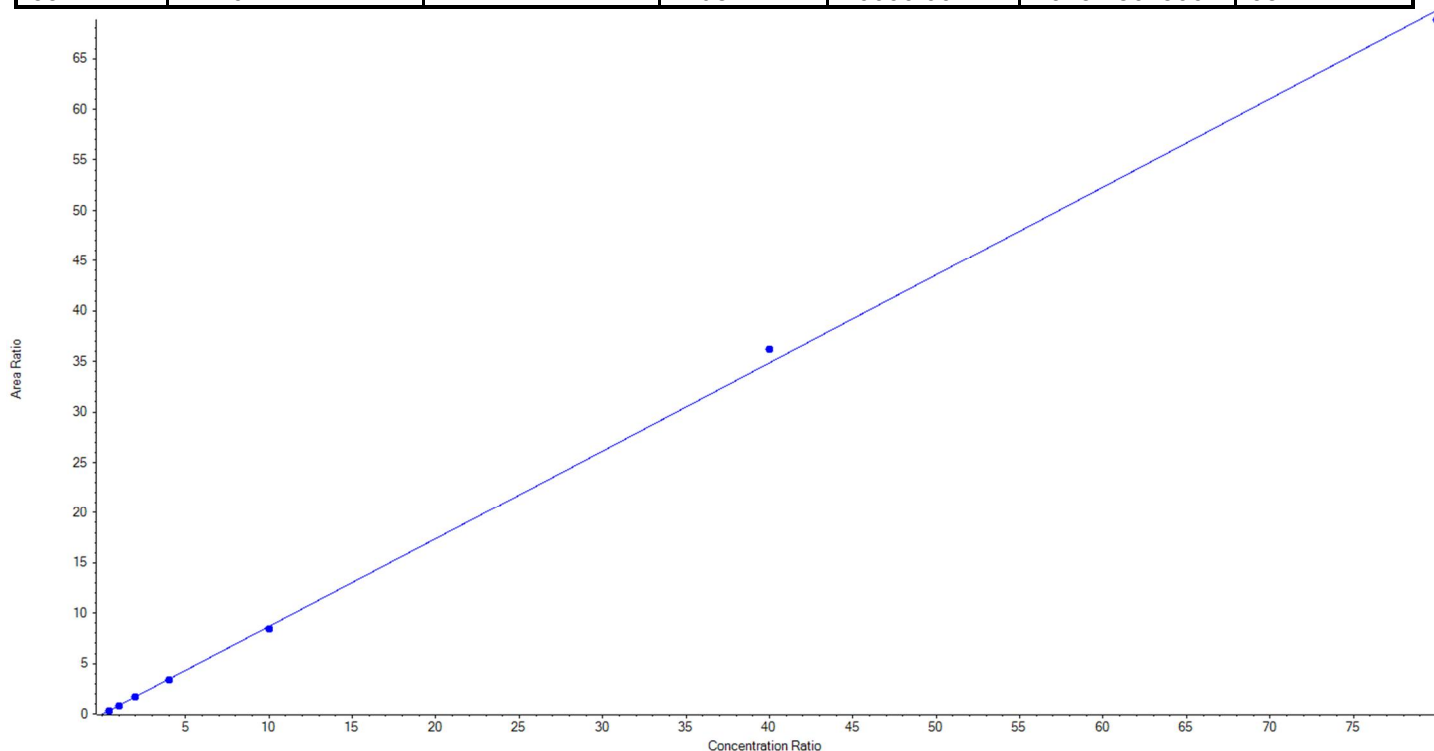
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Analyte Name	PFHpA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	363.0 / 319.0	Result Table	18-0718
Internal Standard	13C4-PFHpA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.87269x + -0.04560$ ($r = 0.99965$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	108.343732	108.3
30	KF35	L2	True	250.00	241.788301	96.7
31	KF36	L3	True	500.00	489.315879	97.9
32	KF37	L4	True	1000.00	978.377848	97.8
33	KF38	L5	True	2500.00	2419.252737	96.8
34	KF39	L6	True	10000.00	10381.053997	103.8
35	KF40	L7	True	20000.00	19731.867506	98.7





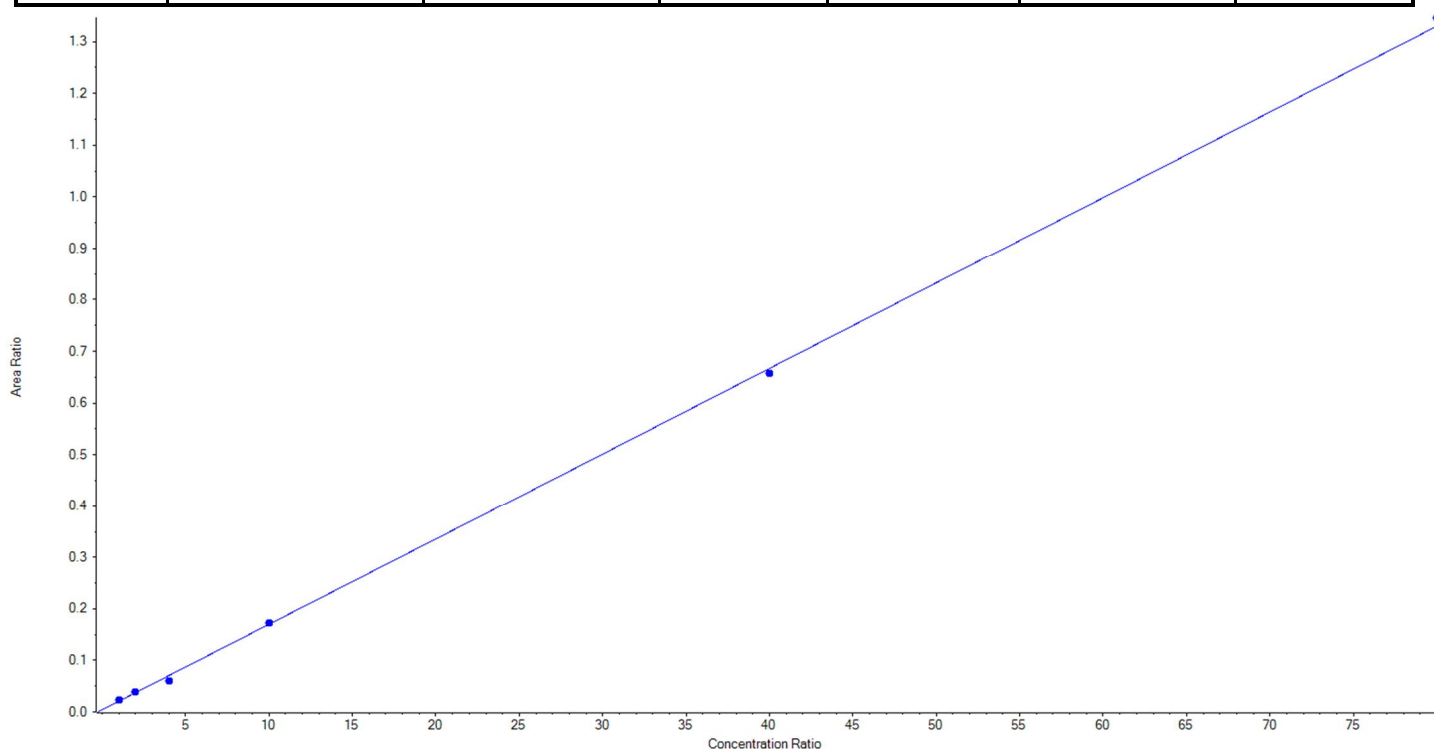
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Analyte Name	PFHpA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	363.0 / 169.0	Result Table	18-0718
Internal Standard	13C4-PFHpA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.01657 x + 0.00426$ ($r = 0.99939$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	False	100.00	21.346403	21.4
30	KF35	L2	True	250.00	283.968695	113.6
31	KF36	L3	True	500.00	506.598340	101.3
32	KF37	L4	True	1000.00	840.463026	84.1
33	KF38	L5	True	2500.00	2535.623529	101.4
34	KF39	L6	True	10000.00	9840.975635	98.4
35	KF40	L7	True	20000.00	20242.370775	101.2





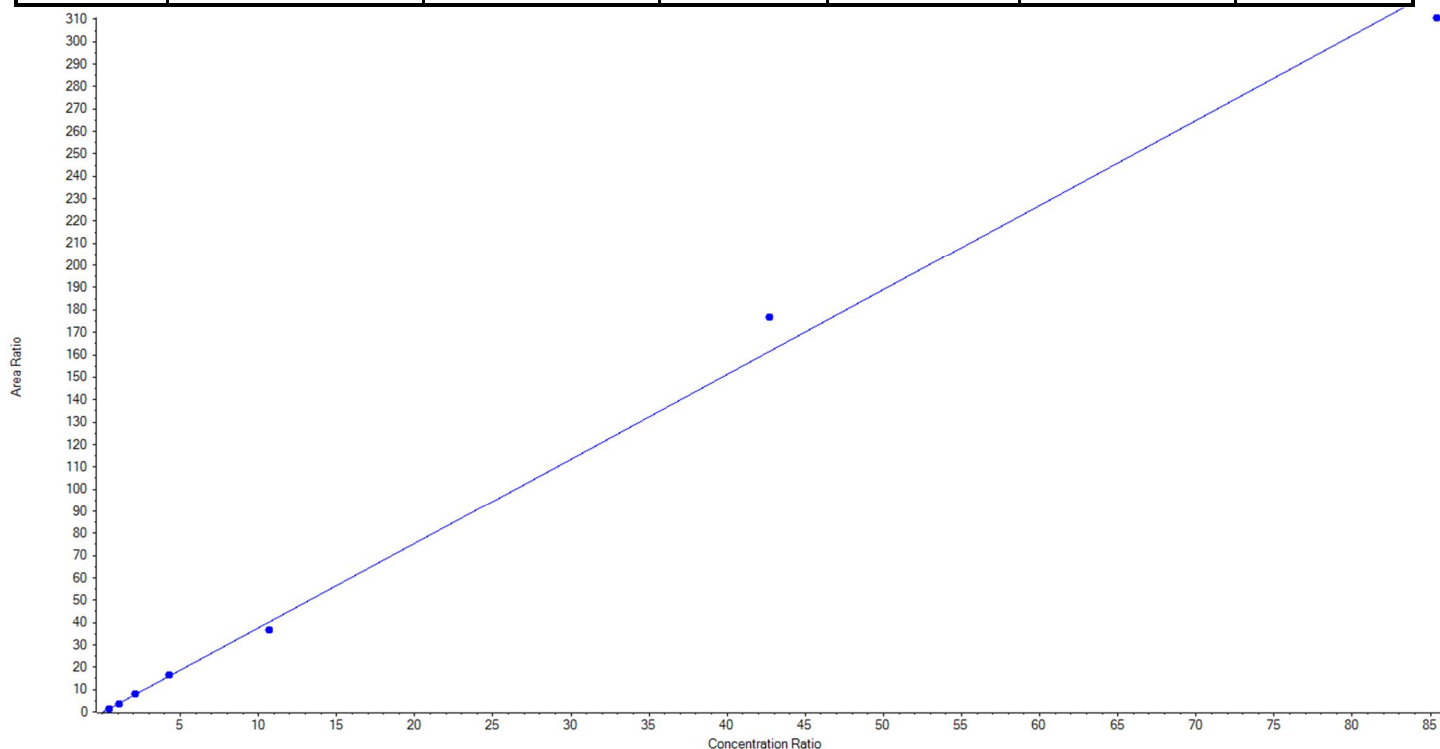
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Analyte Name	PFHxS_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	399.0 / 80.0	Result Table	18-0718
Internal Standard	13C3-PFHxS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 3.78744 x + -0.24583$ ($r = 0.99770$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	100.371027	99.4
30	KF35	L2	True	252.50	239.302977	94.8
31	KF36	L3	True	505.00	526.091852	104.2
32	KF37	L4	True	1010.00	1062.611311	105.2
33	KF38	L5	True	2525.00	2294.521440	90.9
34	KF39	L6	True	10100.00	11058.883288	109.5
35	KF40	L7	True	20200.00	19411.718105	96.1





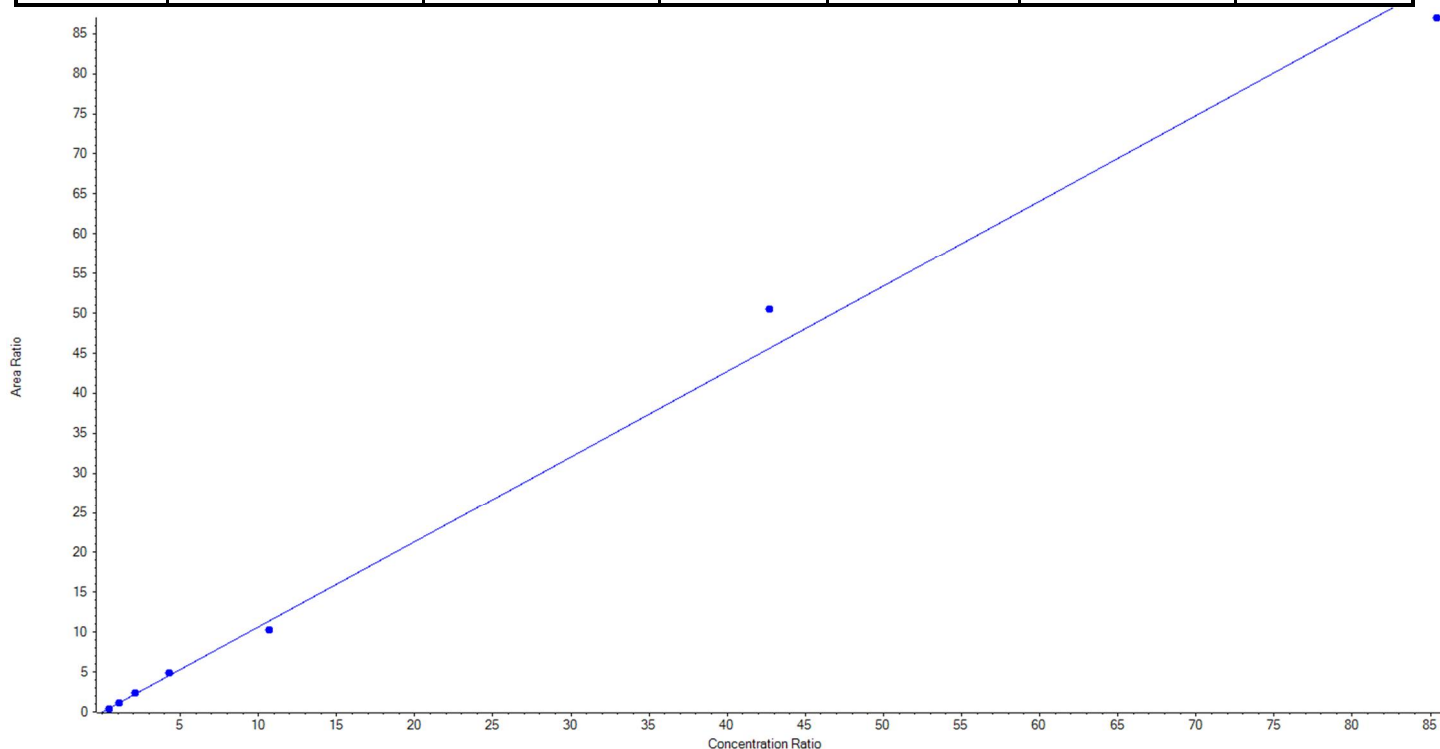
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Analyte Name	PFHxS_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	399.0 / 99.0	Result Table	18-0718
Internal Standard	13C3-PFHxS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.06869x + -0.02883$ ($r = 0.99703$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	87.982828	87.1
30	KF35	L2	True	252.50	265.574107	105.2
31	KF36	L3	True	505.00	523.611418	103.7
32	KF37	L4	True	1010.00	1081.530189	107.1
33	KF38	L5	True	2525.00	2294.401281	90.9
34	KF39	L6	True	10100.00	11186.834924	110.8
35	KF40	L7	True	20200.00	19253.565252	95.3





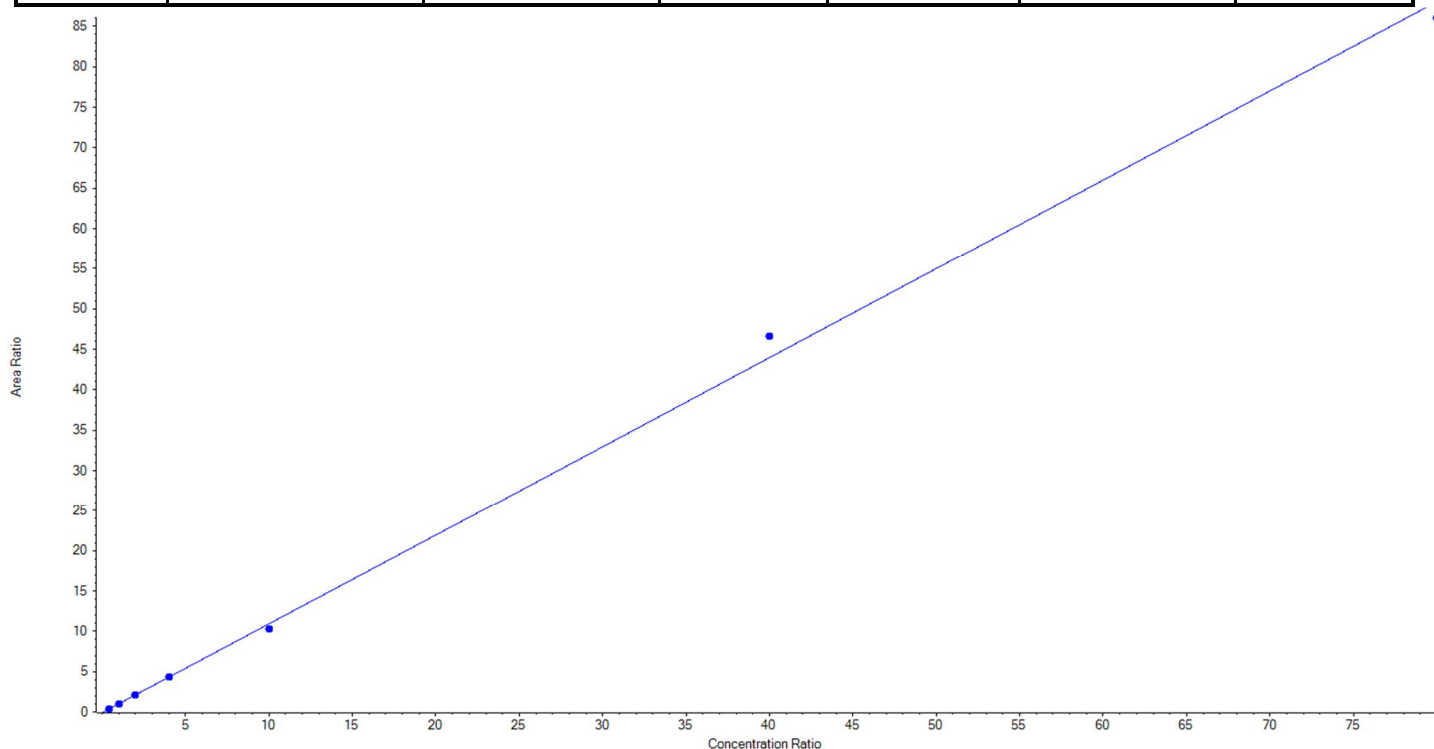
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Analyte Name	PFOA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	413.0 / 369.0	Result Table	18-0718
Internal Standard	13C8-PFOA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.10161x + -0.09167$ ($r = 0.99913$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	100.122414	100.1
30	KF35	L2	True	250.00	254.398914	101.8
31	KF36	L3	True	500.00	501.814189	100.4
32	KF37	L4	True	1000.00	1000.559694	100.1
33	KF38	L5	True	2500.00	2350.090672	94.0
34	KF39	L6	True	10000.00	10596.103107	106.0
35	KF40	L7	True	20000.00	19546.911009	97.7





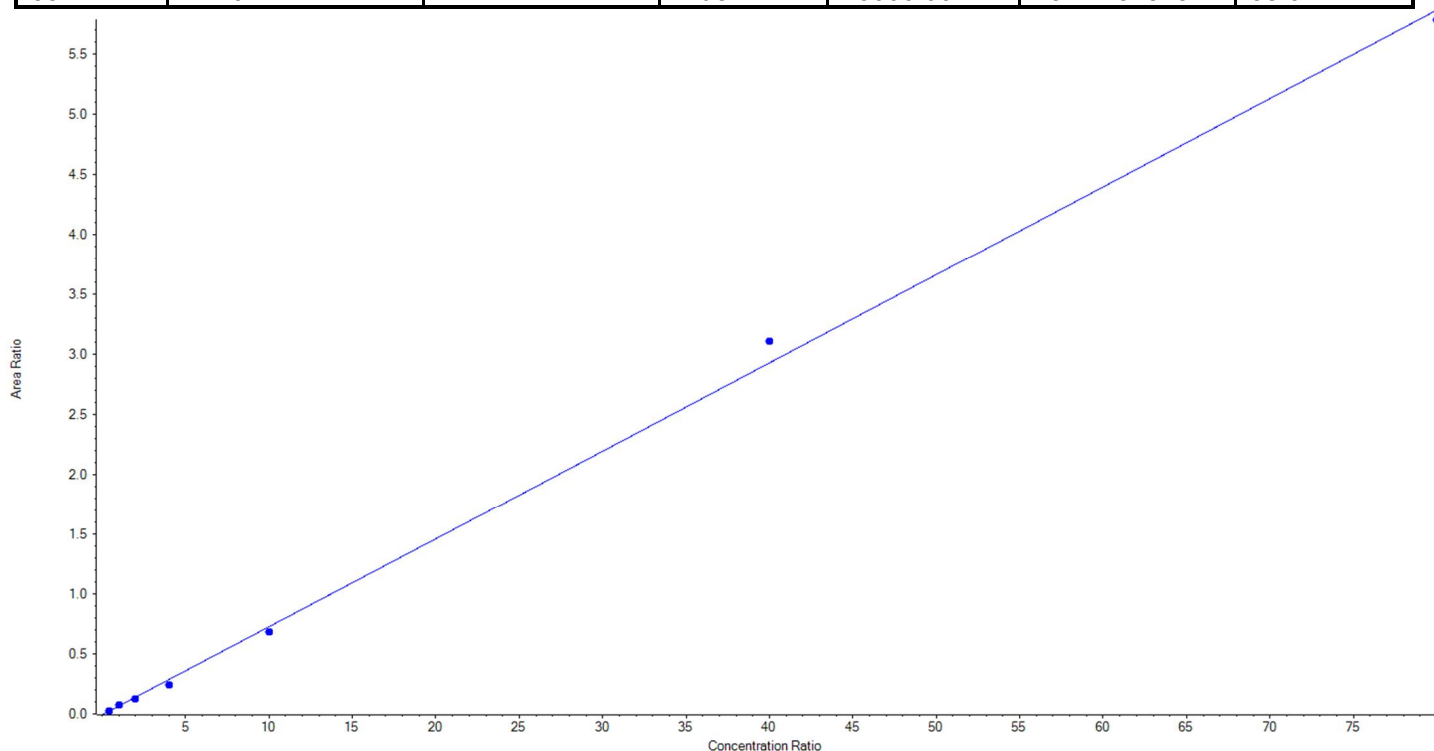
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Analyte Name	PFOA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	413.0 / 169.0	Result Table	18-0718
Internal Standard	13C8-PFOA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.07340 x + -0.00731$ ($r = 0.99864$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	119.369190	119.4
30	KF35	L2	True	250.00	269.122641	107.7
31	KF36	L3	True	500.00	454.142405	90.8
32	KF37	L4	True	1000.00	838.980160	83.9
33	KF38	L5	True	2500.00	2339.521490	93.6
34	KF39	L6	True	10000.00	10606.015357	106.1
35	KF40	L7	True	20000.00	19722.848757	98.6





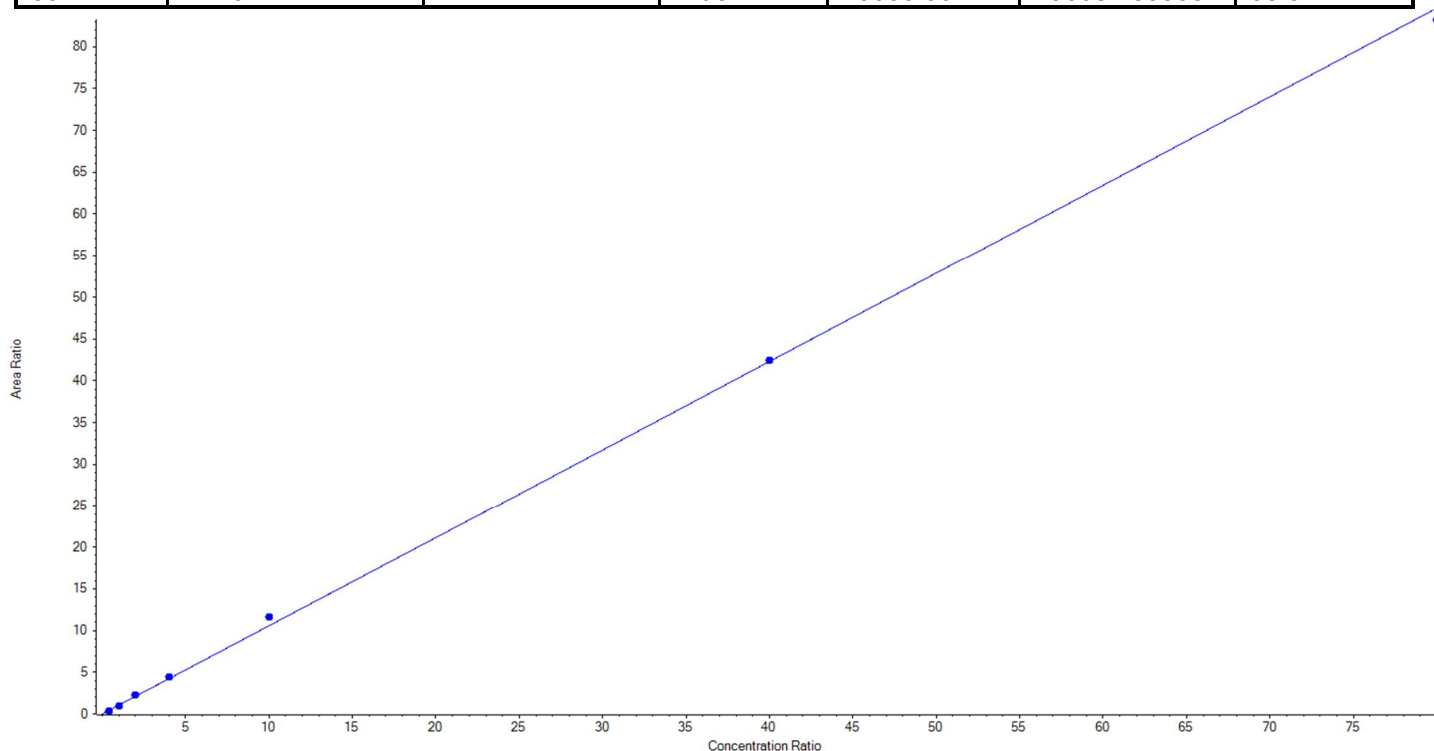
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Analyte Name	PFNA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	463.0 / 419.0	Result Table	18-0718
Internal Standard	13C9-PFNA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.05750x + -0.00822$ ($r = 0.99936$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	87.103163	87.1
30	KF35	L2	True	250.00	231.922632	92.8
31	KF36	L3	True	500.00	535.616929	107.1
32	KF37	L4	True	1000.00	1038.299444	103.8
33	KF38	L5	True	2500.00	2764.926782	110.6
34	KF39	L6	True	10000.00	10023.345464	100.2
35	KF40	L7	True	20000.00	19668.785585	98.3





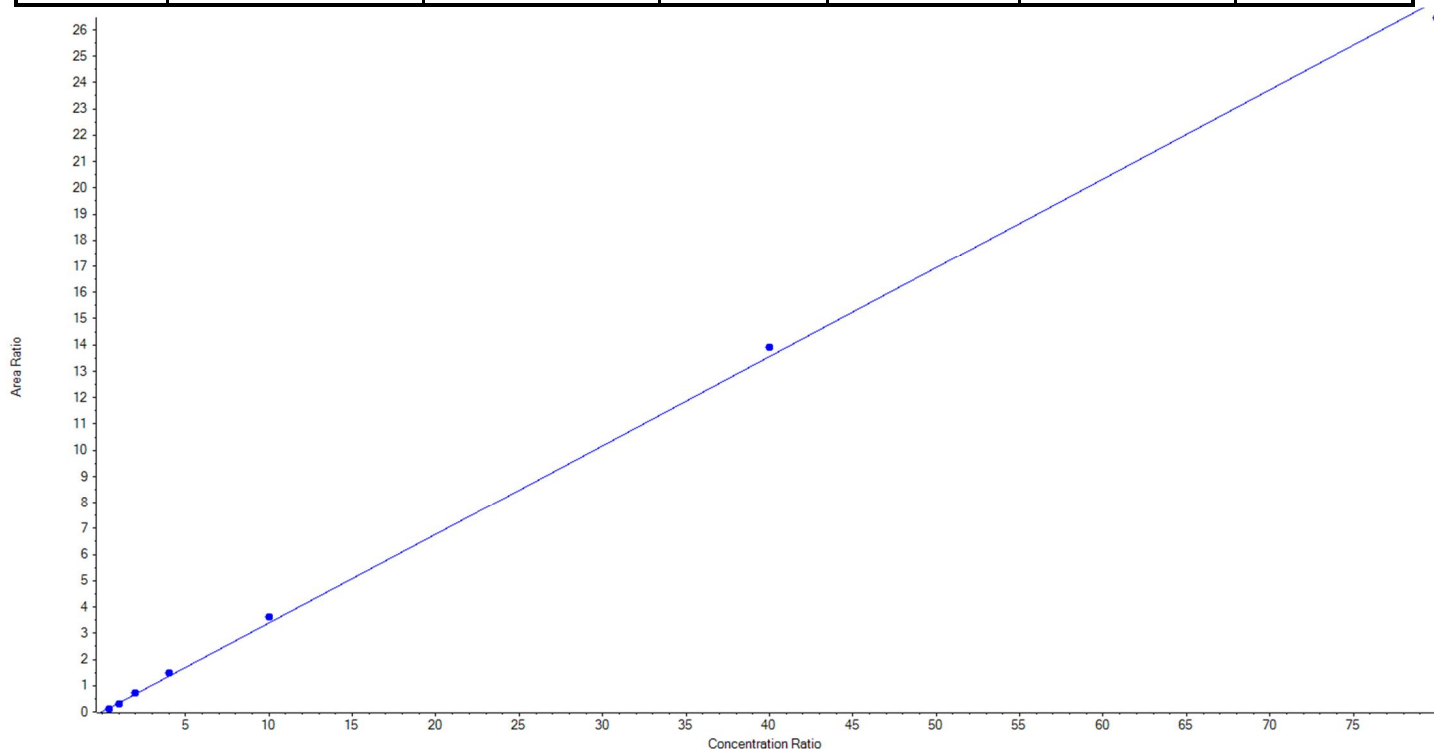
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Analyte Name	PFNA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	463.0 / 219.0	Result Table	18-0718
Internal Standard	13C9-PFNA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.33890 x + 0.00334$ ($r = 0.99929$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	93.407510	93.4
30	KF35	L2	True	250.00	215.467270	86.2
31	KF36	L3	True	500.00	518.940035	103.8
32	KF37	L4	True	1000.00	1101.114116	110.1
33	KF38	L5	True	2500.00	2661.870703	106.5
34	KF39	L6	True	10000.00	10247.066689	102.5
35	KF40	L7	True	20000.00	19512.133676	97.6





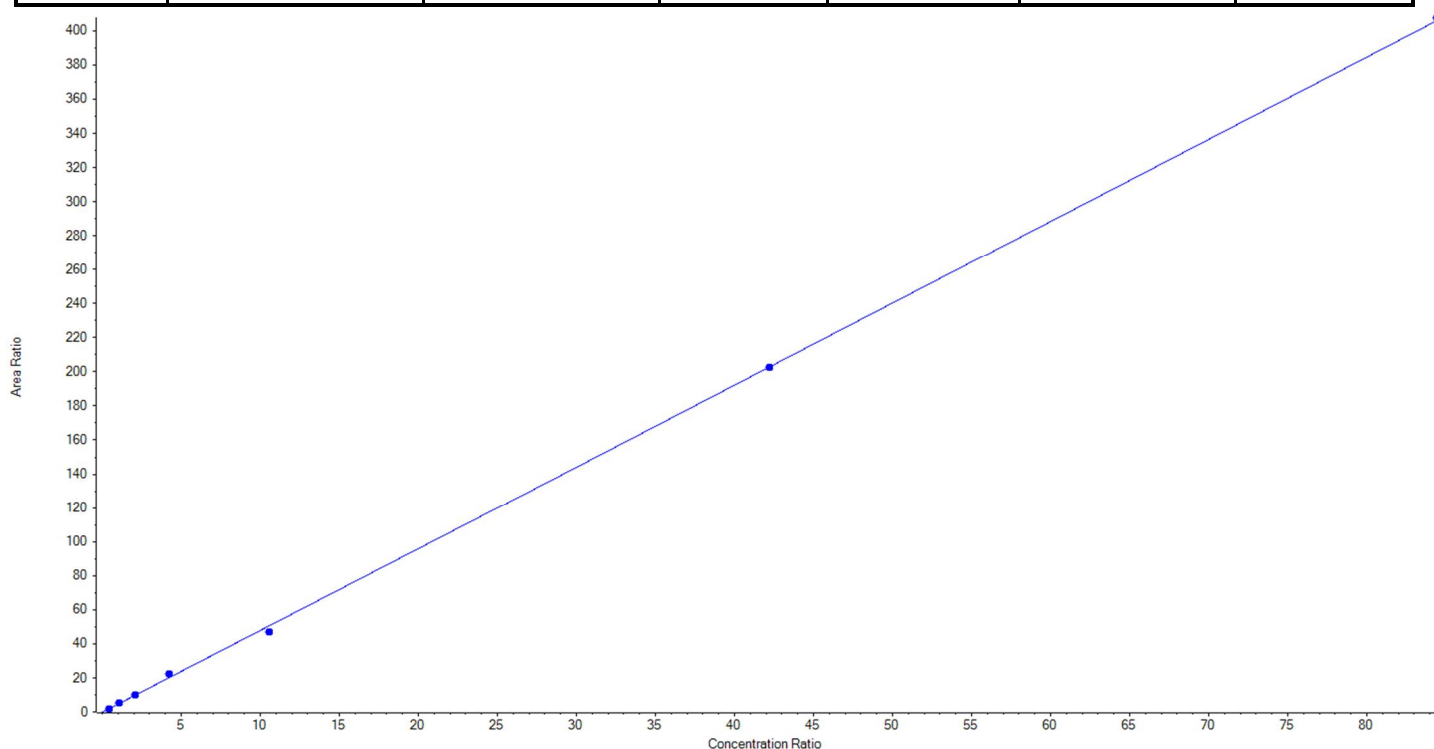
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Analyte Name	PFOS_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	499.0 / 80.0	Result Table	18-0718
Internal Standard	13C8-PFOS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 4.81000 x + -0.27380$ ($r = 0.99960$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	93.401656	92.5
30	KF35	L2	True	252.50	263.779800	104.5
31	KF36	L3	True	505.00	503.615526	99.7
32	KF37	L4	True	1010.00	1114.087177	110.3
33	KF38	L5	True	2525.00	2339.064244	92.6
34	KF39	L6	True	10100.00	10098.854744	100.0
35	KF40	L7	True	20200.00	20280.696854	100.4





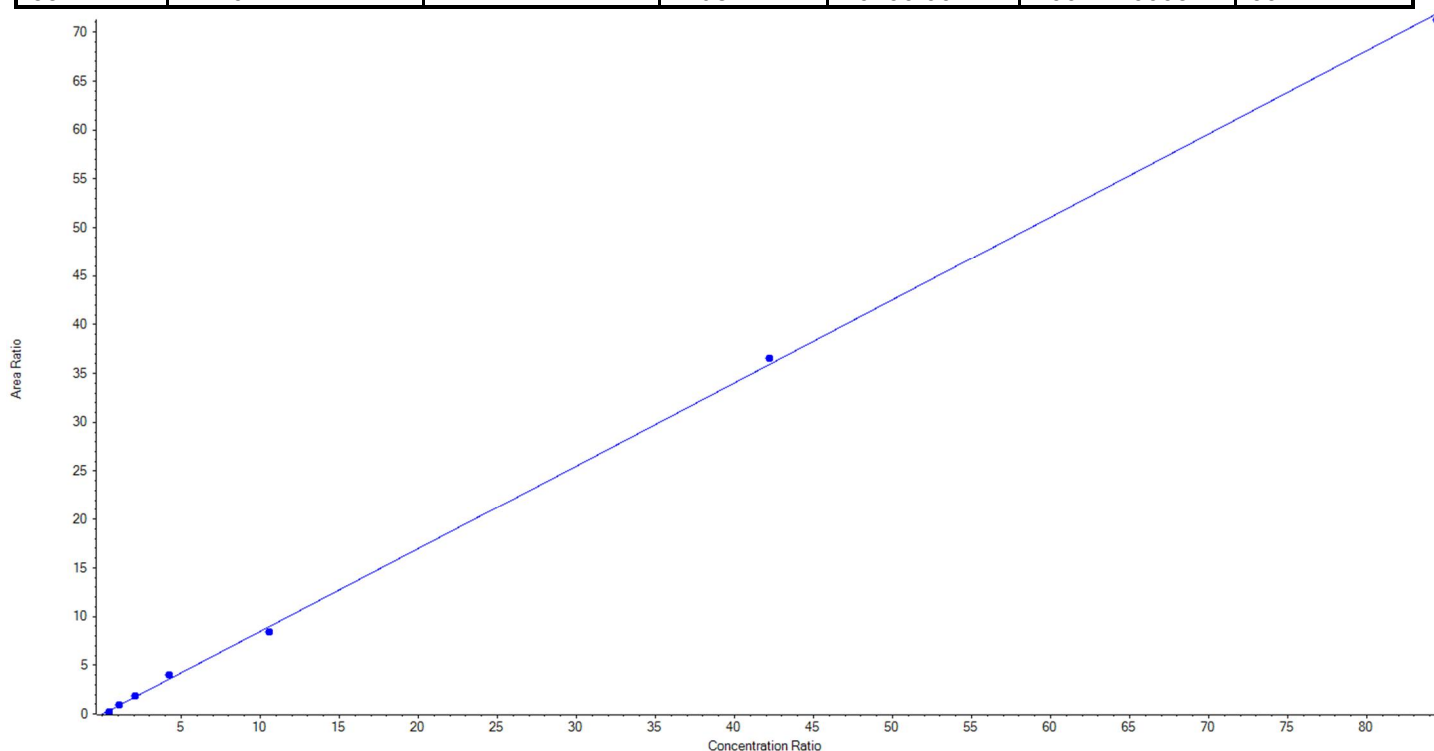
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Analyte Name	PFOS_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	499.0 / 99.0	Result Table	18-0718
Internal Standard	13C8-PFOS	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.85195x + -0.04564$ ($r = 0.99940$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	101.00	78.295545	77.5
30	KF35	L2	True	252.50	282.827099	112.0
31	KF36	L3	True	505.00	522.617173	103.5
32	KF37	L4	True	1010.00	1132.074385	112.1
33	KF38	L5	True	2525.00	2372.596170	94.0
34	KF39	L6	True	10100.00	10282.689577	101.8
35	KF40	L7	True	20200.00	20022.400052	99.1





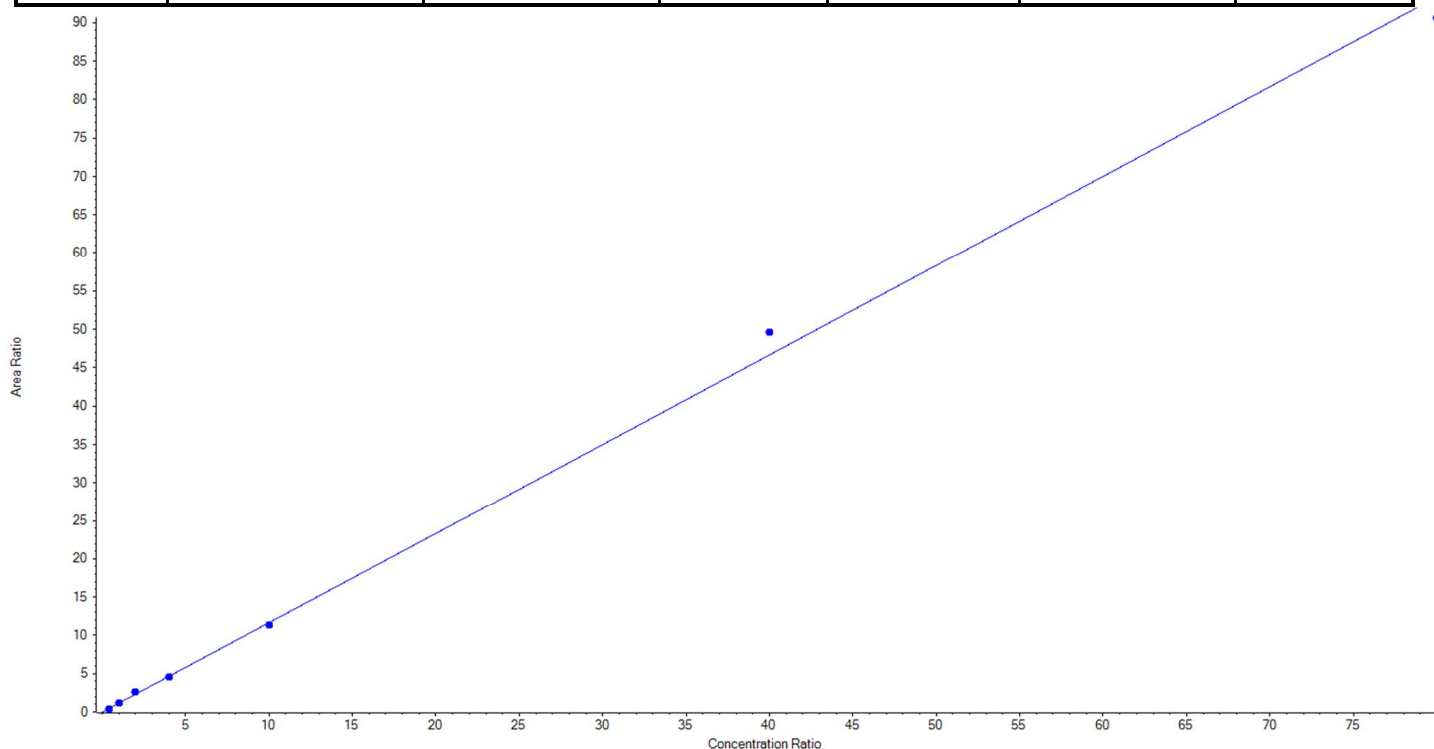
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Analyte Name	PFDA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	513.0 / 469.0	Result Table	18-0718
Internal Standard	13C6-PFDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.16712x + -0.02107$ ($r = 0.99896$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	93.177980	93.2
30	KF35	L2	True	250.00	243.382706	97.4
31	KF36	L3	True	500.00	556.128066	111.2
32	KF37	L4	True	1000.00	972.956807	97.3
33	KF38	L5	True	2500.00	2439.400790	97.6
34	KF39	L6	True	10000.00	10629.368777	106.3
35	KF40	L7	True	20000.00	19415.584874	97.1





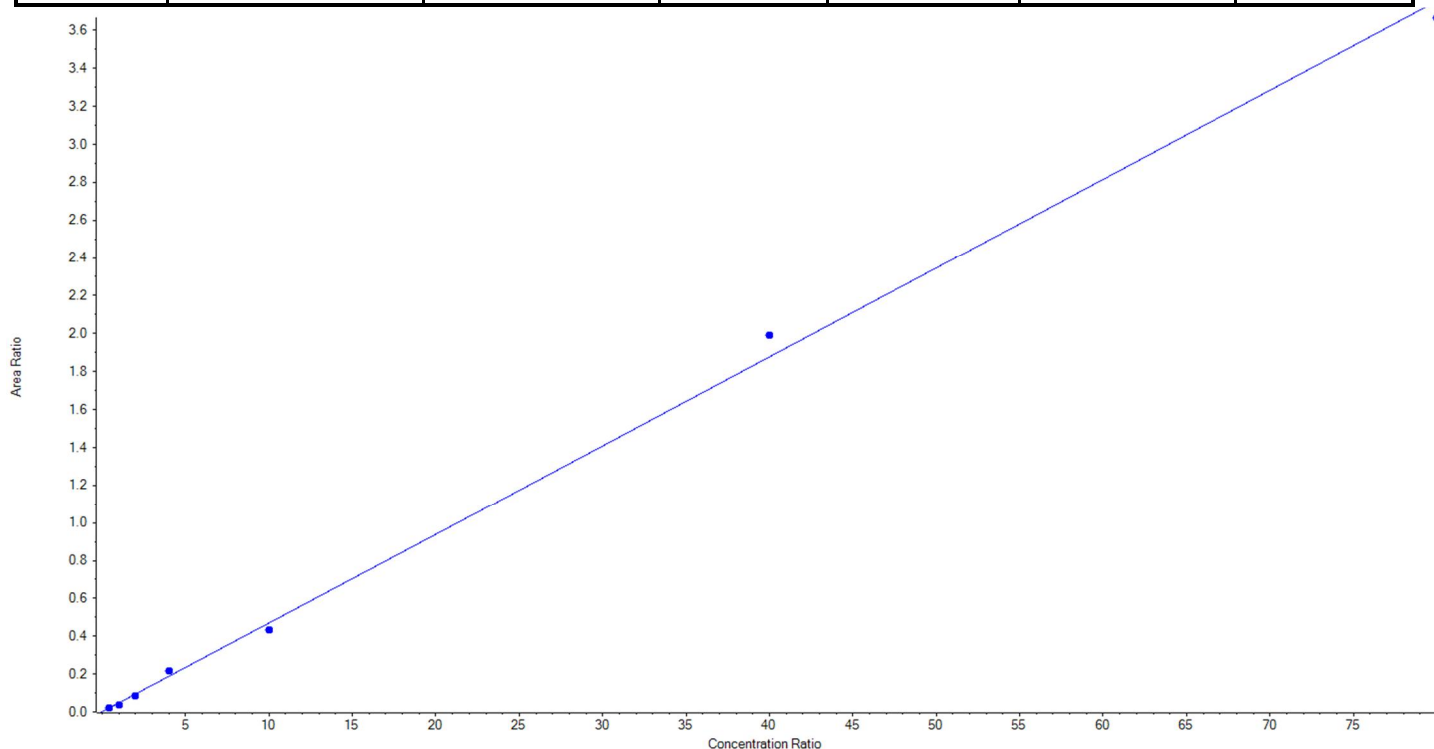
Calibration Summary Report

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Printed: 20/12/2018 1:38:02 PM

Analyte Name	PFDA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	513.0 / 219.0	Result Table	18-0718
Internal Standard	13C6-PFDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.04691 x + 6.66055e-4$ ($r = 0.99834$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	121.941145	121.9
30	KF35	L2	True	250.00	193.770217	77.5
31	KF36	L3	True	500.00	450.139905	90.0
32	KF37	L4	True	1000.00	1144.450682	114.5
33	KF38	L5	True	2500.00	2310.747530	92.4
34	KF39	L6	True	10000.00	10600.613093	106.0
35	KF40	L7	True	20000.00	19528.337429	97.6





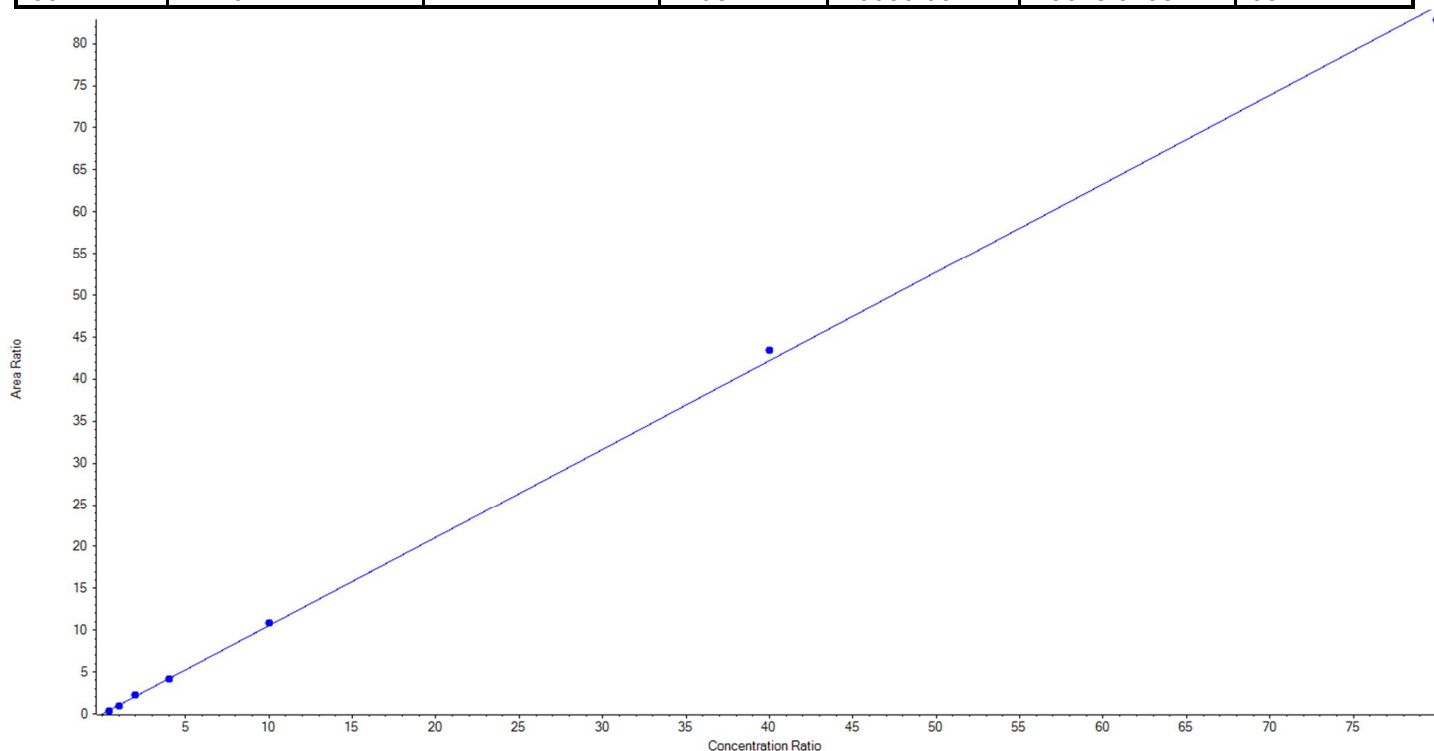
Calibration Summary Report

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Analyte Name	PFUnA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	563.0 / 519.0	Result Table	18-0718
Internal Standard	13C7-PFUnA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.05554 x + -0.01558$ ($r = 0.99964$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	90.719180	90.7
30	KF35	L2	True	250.00	242.809462	97.1
31	KF36	L3	True	500.00	543.578442	108.7
32	KF37	L4	True	1000.00	992.678843	99.3
33	KF38	L5	True	2500.00	2582.197356	103.3
34	KF39	L6	True	10000.00	10279.096890	102.8
35	KF40	L7	True	20000.00	19618.919827	98.1





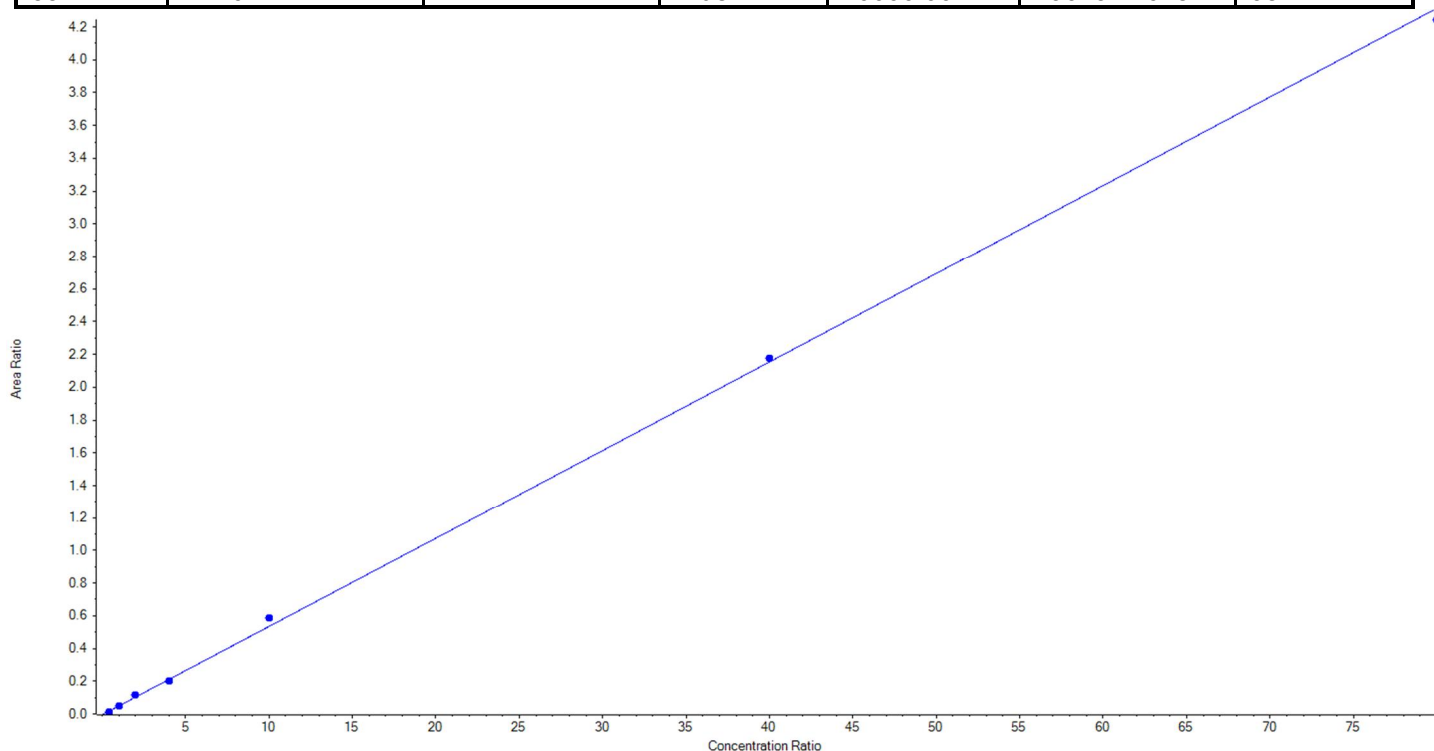
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Analyte Name	PFUnA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	563.0 / 269.0	Result Table	18-0718
Internal Standard	13C7-PFUnA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.05398x + -0.00494$ ($r = 0.99942$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	89.413276	89.4
30	KF35	L2	True	250.00	236.170749	94.5
31	KF36	L3	True	500.00	555.073329	111.0
32	KF37	L4	True	1000.00	965.857345	96.6
33	KF38	L5	True	2500.00	2728.318430	109.1
34	KF39	L6	True	10000.00	10101.890587	101.0
35	KF40	L7	True	20000.00	19673.276284	98.4





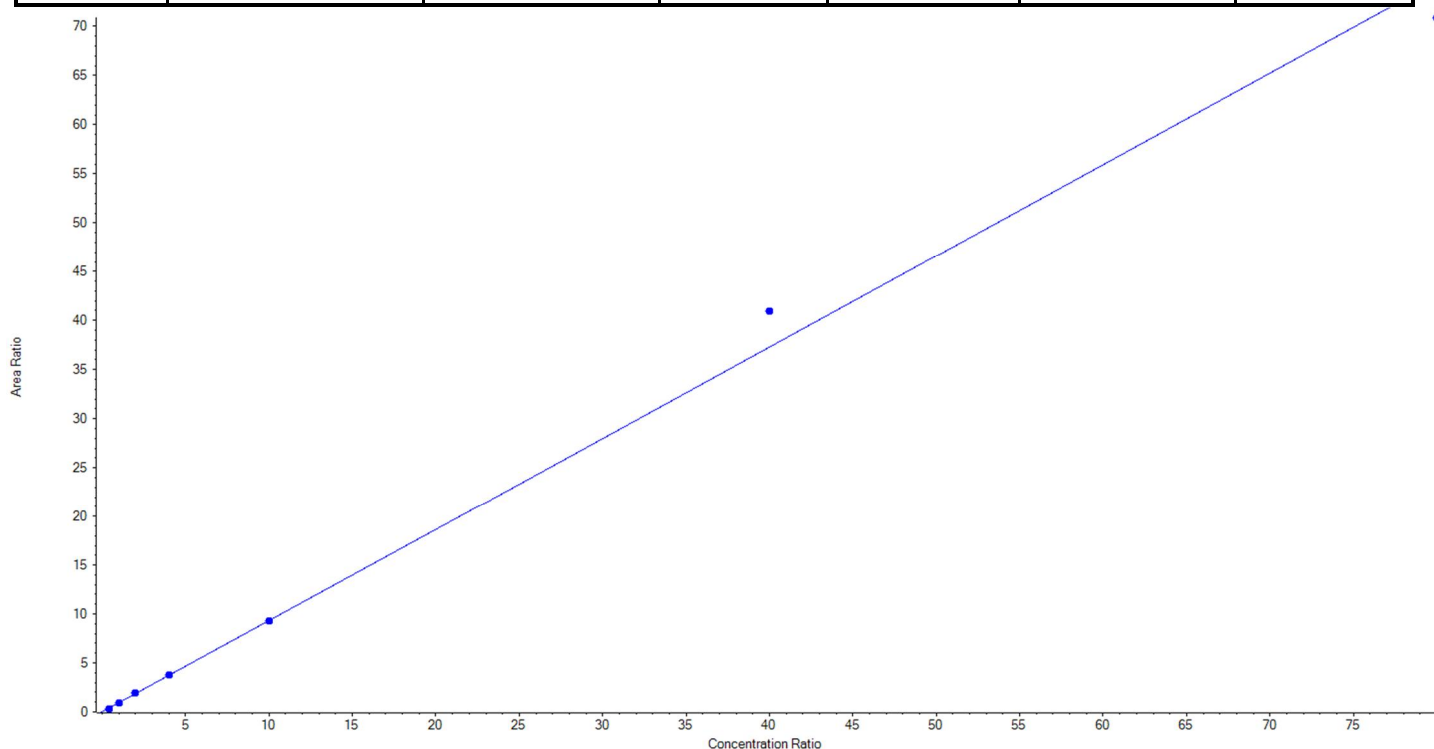
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Analyte Name	PFDaA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	613.0 / 569.0	Result Table	18-0718
Internal Standard	13C2-PFDaA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.93197x + 0.01146$ ($r = 0.99766$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	92.222632	92.2
30	KF35	L2	True	250.00	246.991874	98.8
31	KF36	L3	True	500.00	521.995099	104.4
32	KF37	L4	True	1000.00	996.716385	99.7
33	KF38	L5	True	2500.00	2500.733623	100.0
34	KF39	L6	True	10000.00	10984.782560	109.9
35	KF40	L7	True	20000.00	19006.557826	95.0





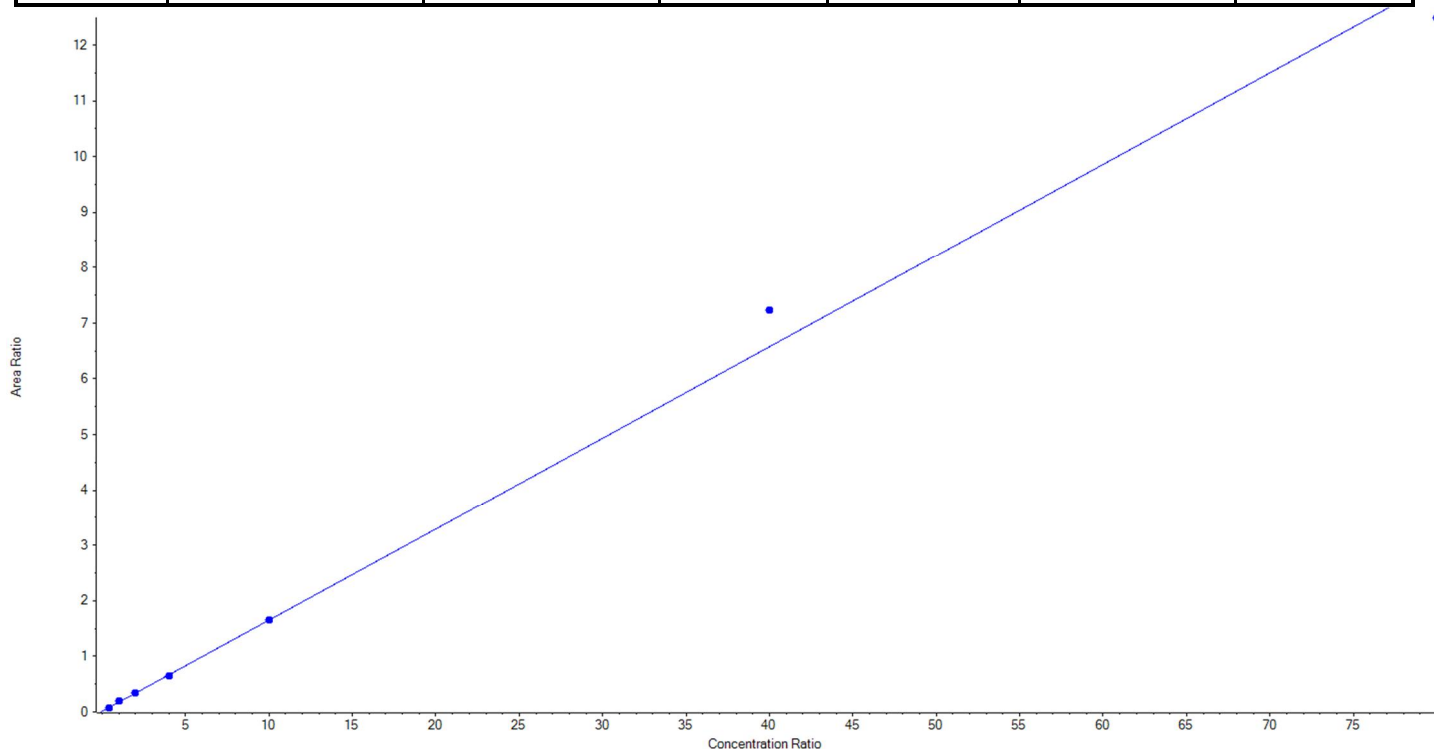
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Analyte Name	PFDaA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	613.0 / 319.0	Result Table	18-0718
Internal Standard	13C2-PFDaA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.16415x + 0.01045$ ($r = 0.99756$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	87.357136	87.4
30	KF35	L2	True	250.00	272.682995	109.1
31	KF36	L3	True	500.00	501.521460	100.3
32	KF37	L4	True	1000.00	979.021561	97.9
33	KF38	L5	True	2500.00	2508.838210	100.4
34	KF39	L6	True	10000.00	11001.359322	110.0
35	KF40	L7	True	20000.00	18999.219316	95.0





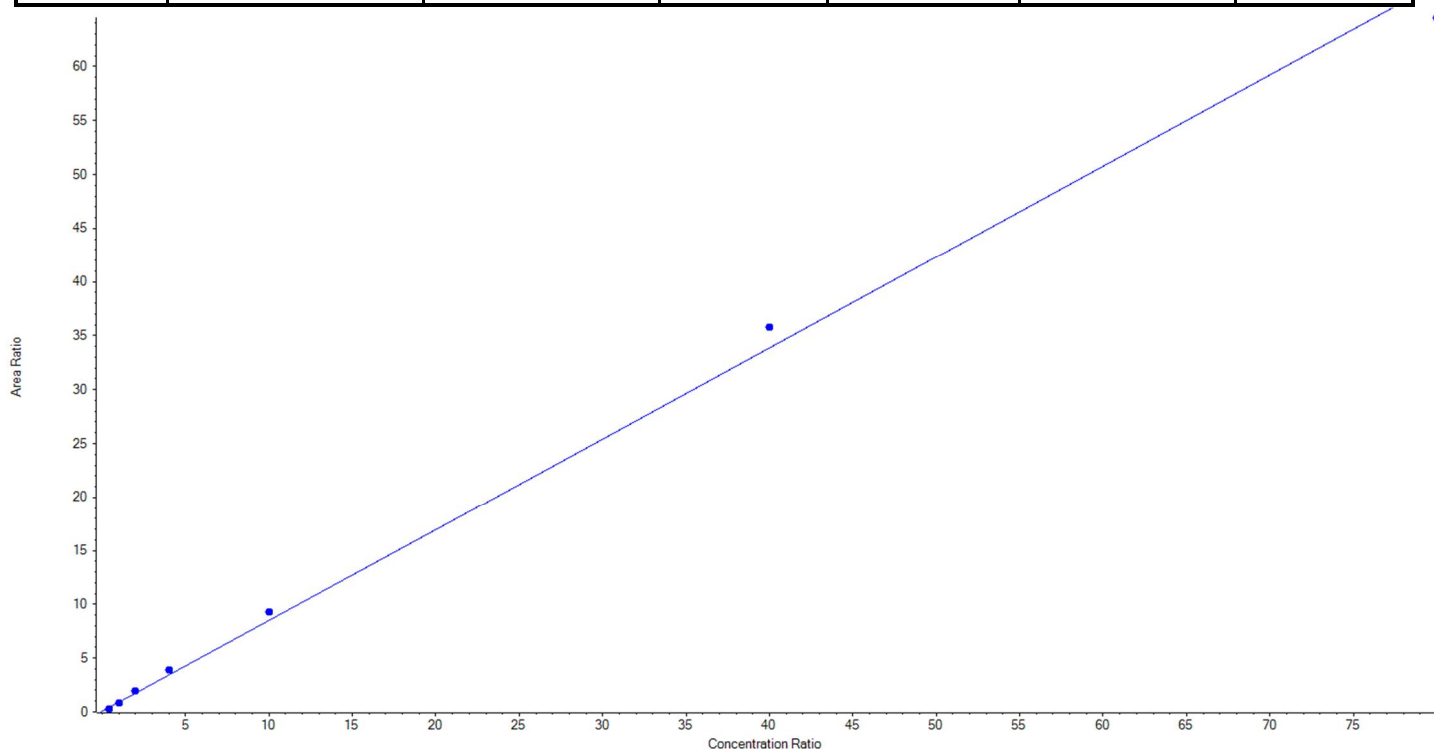
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Analyte Name	PFTTrDA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	663.0 / 619.0	Result Table	18-0718
Internal Standard	13C2-PFTeDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.84529x + 0.05282$ ($r = 0.99789$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	72.196811	72.2
30	KF35	L2	True	250.00	226.319185	90.5
31	KF36	L3	True	500.00	570.505876	114.1
32	KF37	L4	True	1000.00	1130.798470	113.1
33	KF38	L5	True	2500.00	2729.948315	109.2
34	KF39	L6	True	10000.00	10559.080700	105.6
35	KF40	L7	True	20000.00	19061.150642	95.3





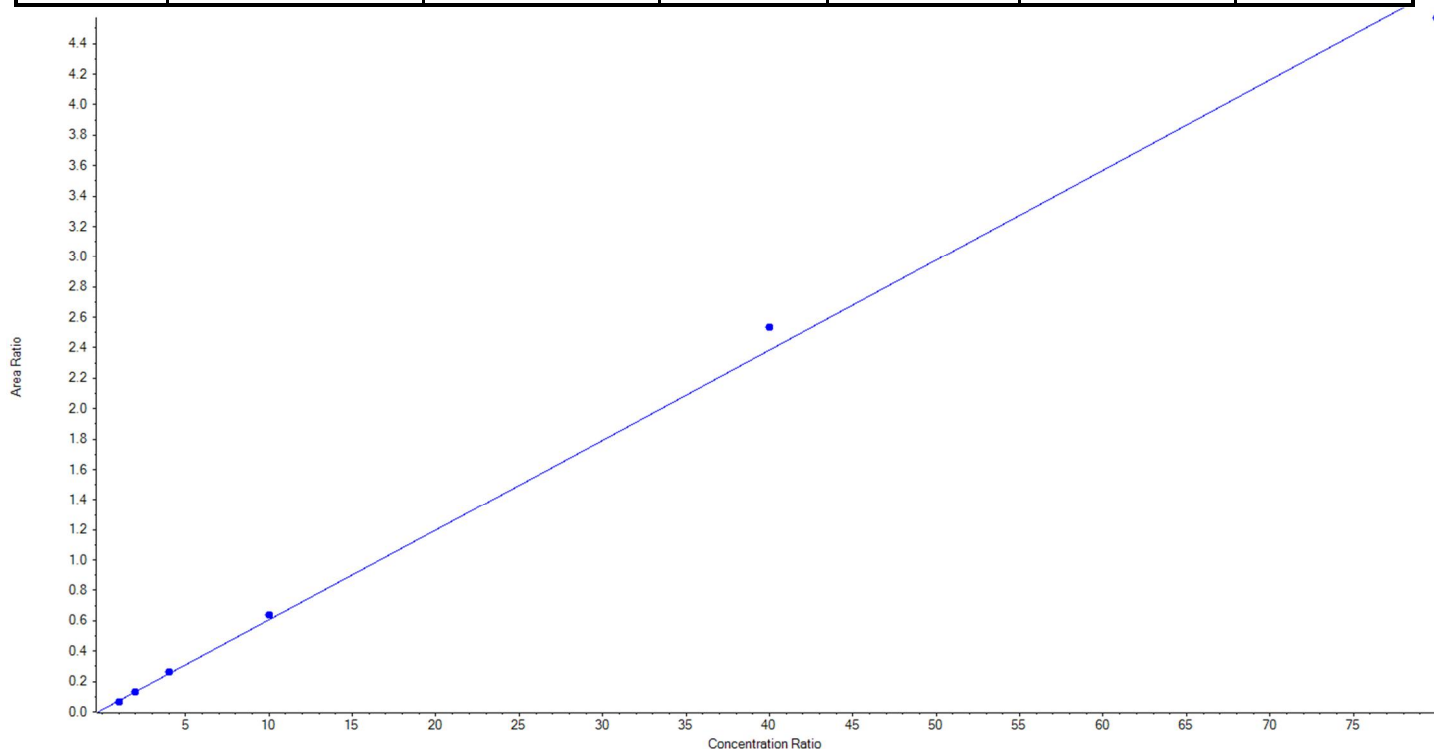
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Analyte Name	PFTTrDA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	663.0 / 169.0	Result Table	18-0718
Internal Standard	13C2-PFTeDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.05927 x + 0.01389$ ($r = 0.99857$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	False	100.00	6.726447	6.7
30	KF35	L2	True	250.00	221.261810	88.5
31	KF36	L3	True	500.00	490.980868	98.2
32	KF37	L4	True	1000.00	1053.082071	105.3
33	KF38	L5	True	2500.00	2640.479559	105.6
34	KF39	L6	True	10000.00	10630.146877	106.3
35	KF40	L7	True	20000.00	19214.048815	96.1





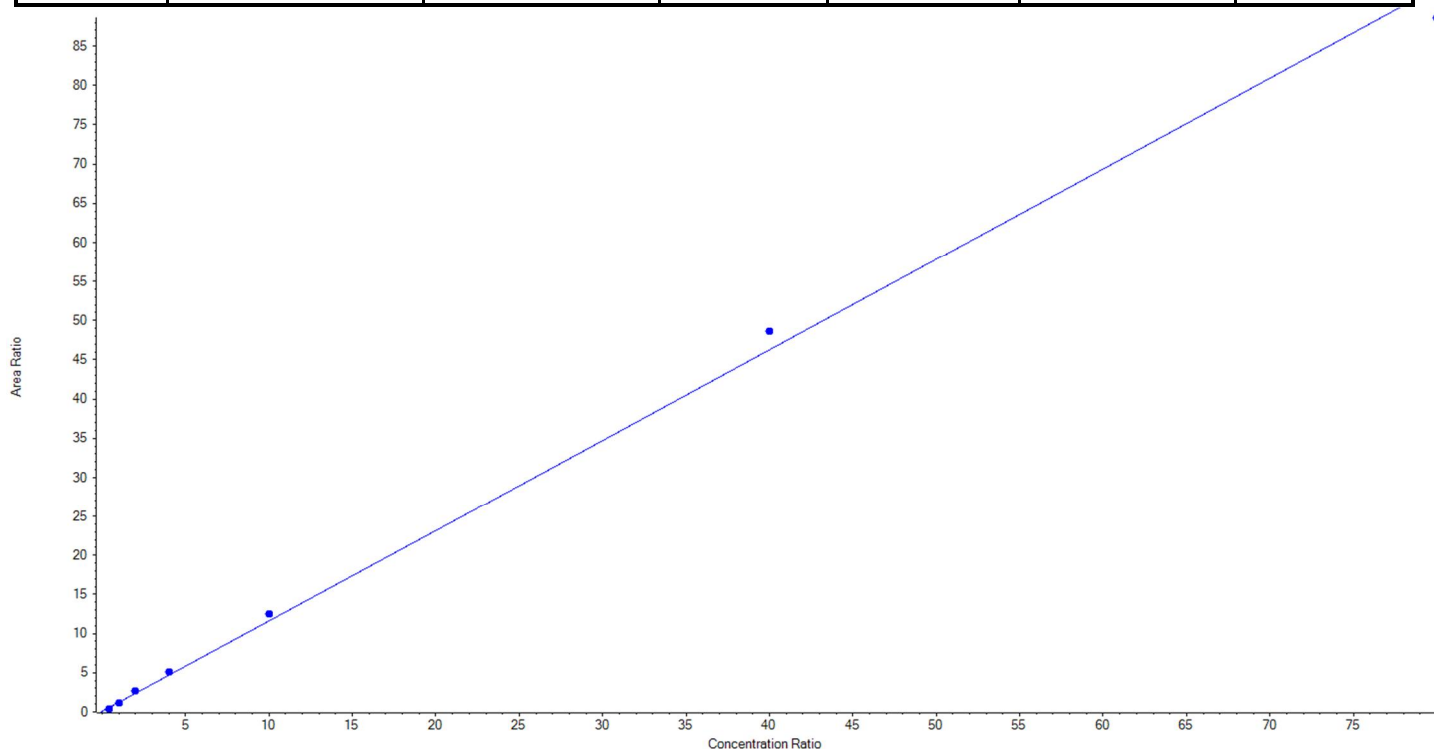
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Analyte Name	PFTeDA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	713.0 / 669.0	Result Table	18-0718
Internal Standard	13C2-PFTeDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.15518x + 0.06733$ ($r = 0.99834$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	70.017684	70.0
30	KF35	L2	True	250.00	244.809404	97.9
31	KF36	L3	True	500.00	565.692338	113.1
32	KF37	L4	True	1000.00	1103.666885	110.4
33	KF38	L5	True	2500.00	2689.620502	107.6
34	KF39	L6	True	10000.00	10517.522494	105.2
35	KF40	L7	True	20000.00	19158.670693	95.8





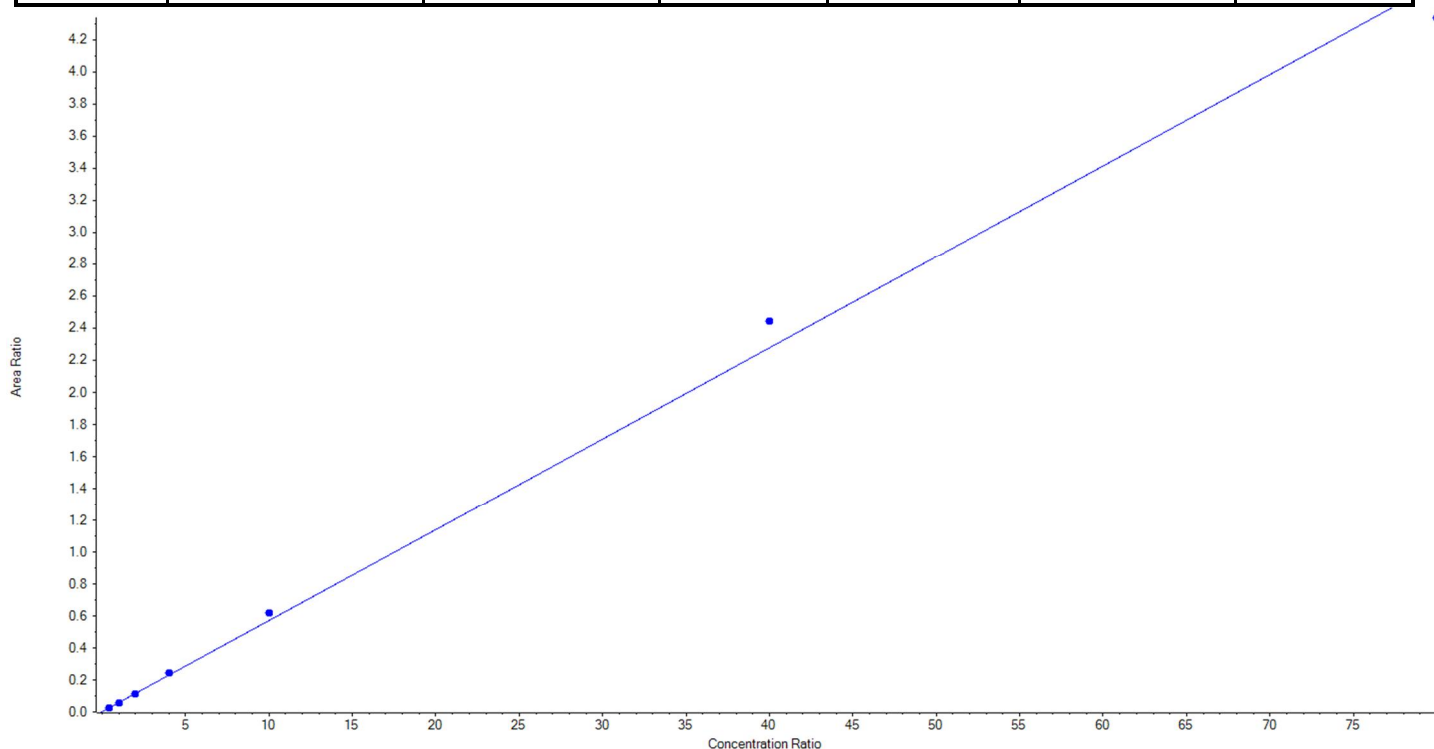
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Analyte Name	PFTeDA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	713.0 / 169.0	Result Table	18-0718
Internal Standard	13C2-PFTeDA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.05687x + 0.00223$ ($r = 0.99811$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	91.772738	91.8
30	KF35	L2	True	250.00	238.038639	95.2
31	KF36	L3	True	500.00	483.532962	96.7
32	KF37	L4	True	1000.00	1053.415851	105.3
33	KF38	L5	True	2500.00	2712.614191	108.5
34	KF39	L6	True	10000.00	10721.186616	107.2
35	KF40	L7	True	20000.00	19049.439002	95.3





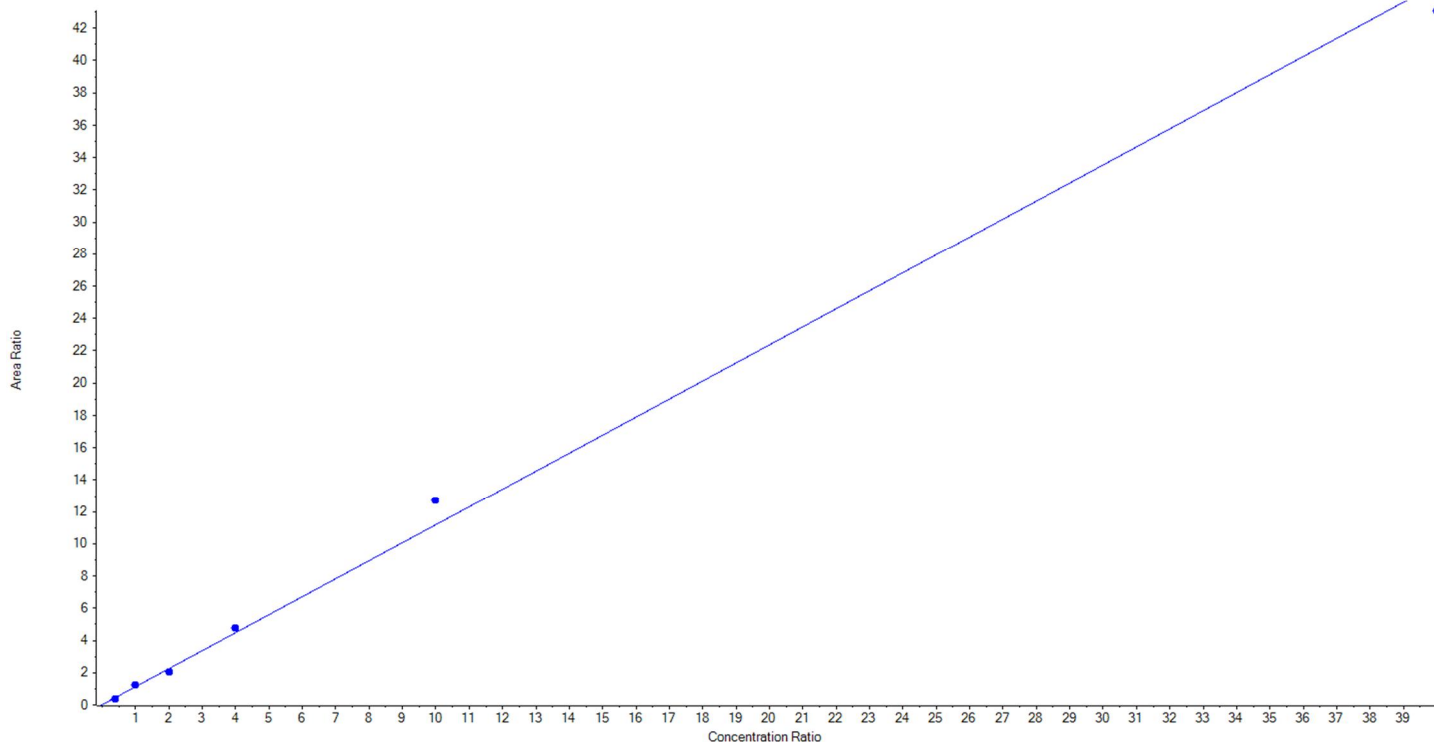
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Analyte Name	NMeFOSAA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	570.0 / 419.0	Result Table	18-0718
Internal Standard	d3-MeFOSAA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.11774 x + 0.01355$ ($r = 0.99707$) (weighting: $1 / x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	82.825066	82.8
30	KF35	L2	True	250.00	271.733384	108.7
31	KF36	L3	True	500.00	458.099083	91.6
32	KF37	L4	True	1000.00	1071.173074	107.1
33	KF38	L5	True	2500.00	2836.092064	113.4
34	KF39	L6	True	10000.00	9630.077328	96.3
35	KF40	L7	False	20000.00	17794.170709	89.0





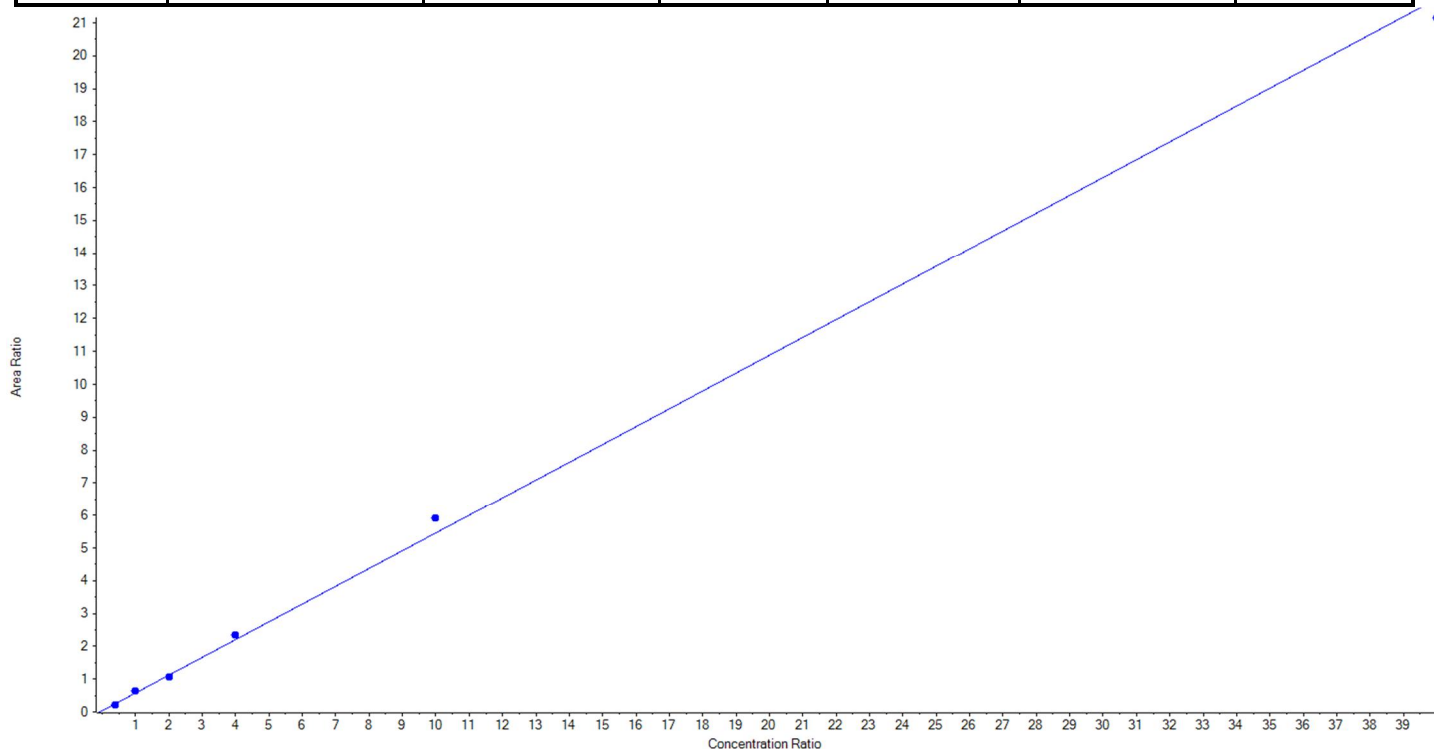
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Analyte Name	NMeFOSAA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	570.0 / 512.0	Result Table	18-0718
Internal Standard	d3-MeFOSAA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.54233x + 0.03498$ ($r = 0.99837$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	78.727301	78.7
30	KF35	L2	True	250.00	284.654078	113.9
31	KF36	L3	True	500.00	473.232125	94.7
32	KF37	L4	True	1000.00	1070.741432	107.1
33	KF38	L5	True	2500.00	2708.801634	108.4
34	KF39	L6	True	10000.00	9733.843430	97.3
35	KF40	L7	False	20000.00	17713.023581	88.6





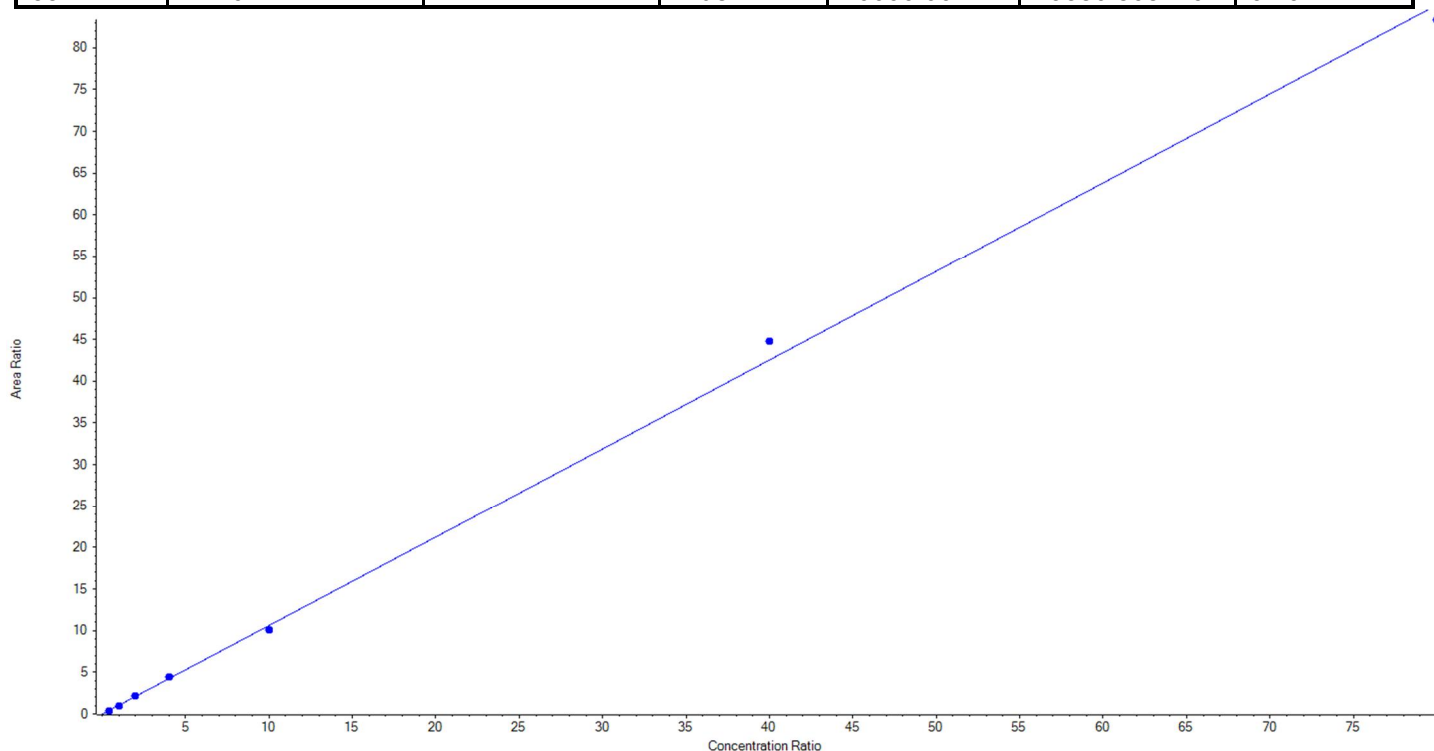
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Analyte Name	NEtFOSAA_1	Data File	AC_12142018_5-0369.wiff
MRM Transition	584.0 / 419.0	Result Table	18-0718
Internal Standard	d5-EtFOSAA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.06406 x + -0.02540$ ($r = 0.99926$) (weighting: 1 / x)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	104.501296	104.5
30	KF35	L2	True	250.00	229.083262	91.6
31	KF36	L3	True	500.00	507.527484	101.5
32	KF37	L4	True	1000.00	1046.068596	104.6
33	KF38	L5	True	2500.00	2367.629679	94.7
34	KF39	L6	True	10000.00	10514.381437	105.1
35	KF40	L7	True	20000.00	19580.808246	97.9





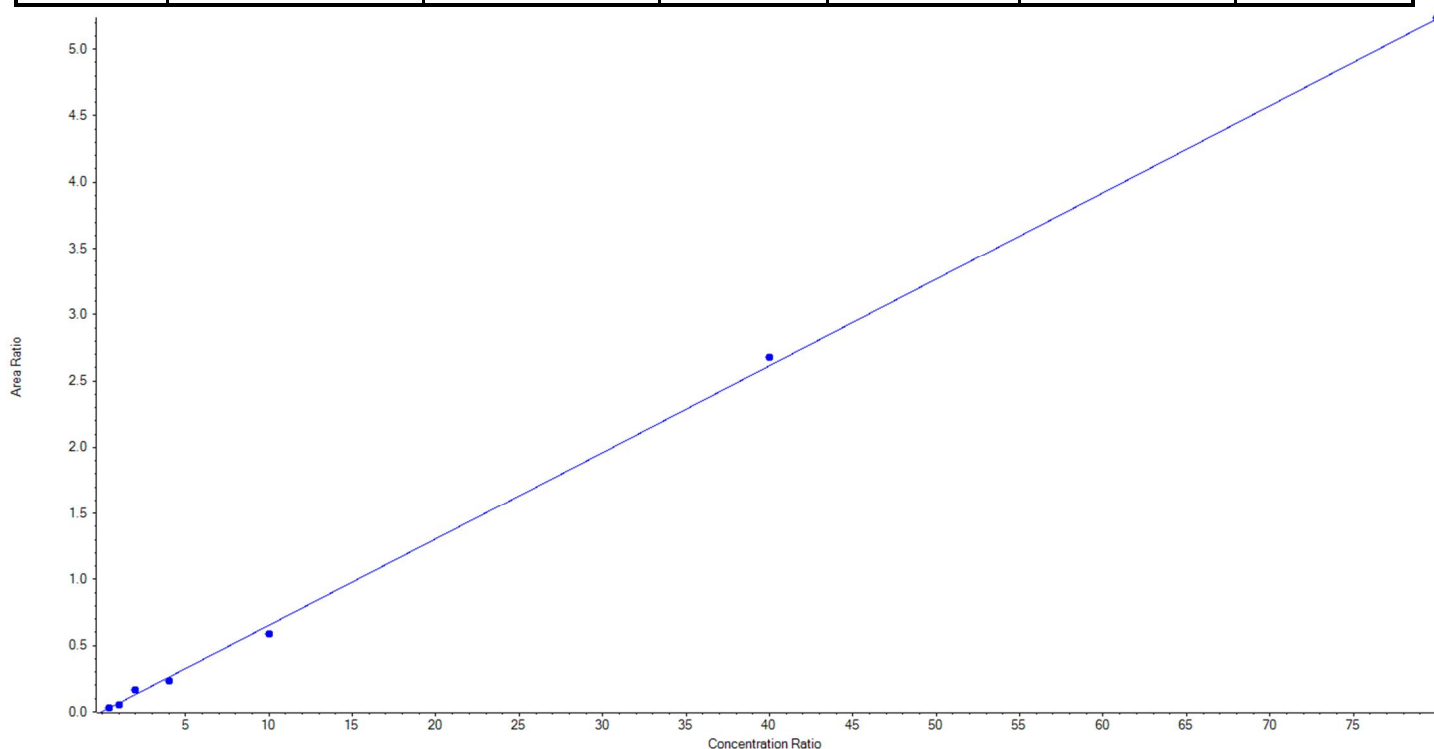
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Analyte Name	NEtFOSAA_2	Data File	AC_12142018_5-0369.wiff
MRM Transition	584.0 / 483.0	Result Table	18-0718
Internal Standard	d5-EtFOSAA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 0.06535x + 4.17511e-4$ ($r = 0.99863$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	True	100.00	111.797347	111.8
30	KF35	L2	True	250.00	202.036458	80.8
31	KF36	L3	True	500.00	629.500144	125.9
32	KF37	L4	True	1000.00	888.774224	88.9
33	KF38	L5	True	2500.00	2252.091855	90.1
34	KF39	L6	True	10000.00	10239.588865	102.4
35	KF40	L7	True	20000.00	20026.211106	100.1





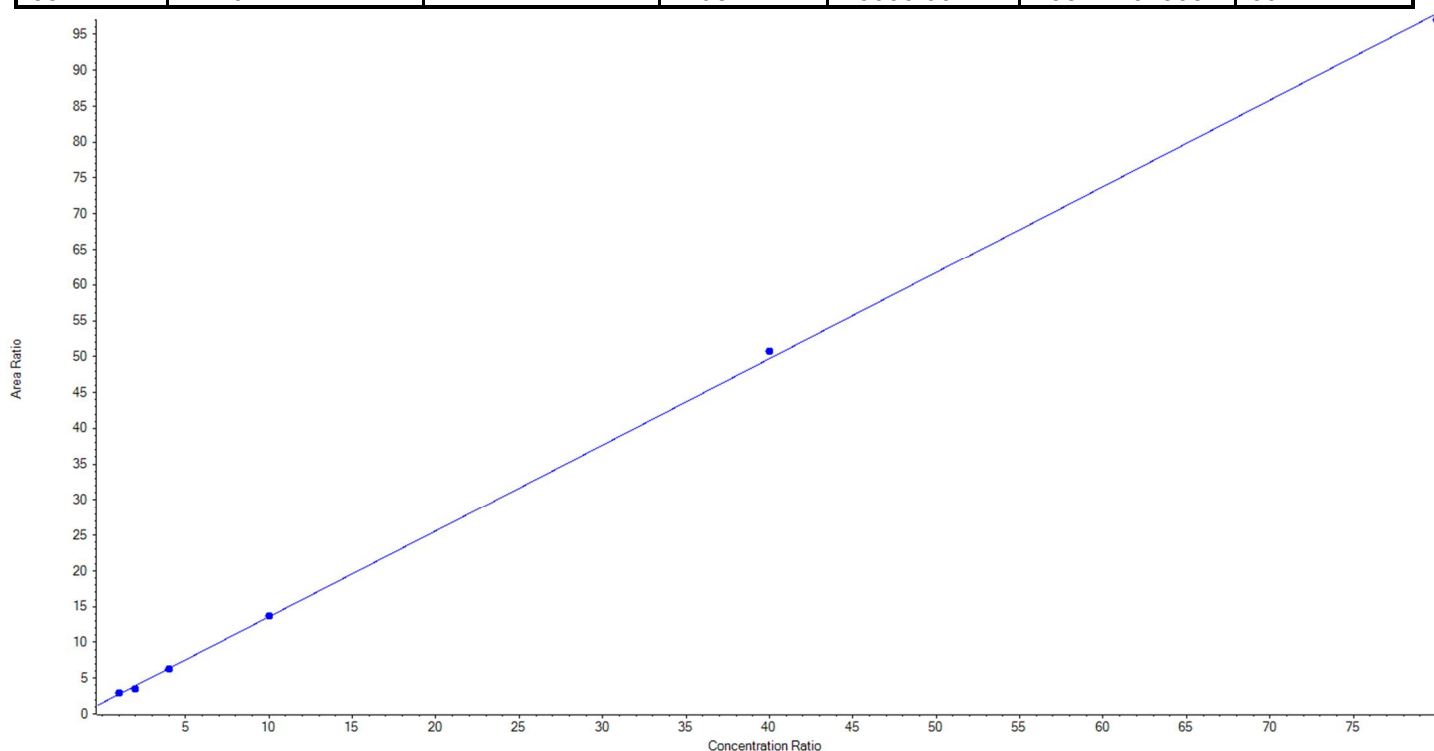
Calibration Summary Report

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Analyte Name	PFBA	Data File	AC_12142018_5-0369.wiff
MRM Transition	213.0 / 169.0	Result Table	18-0718
Internal Standard	13C4-PFBA	Instrument Name	QTRAP 5500
Acquisition Date	12/14/2018 9:35:22 PM	Acquisition Method	5-0369.dam

Regression Equation: $y = 1.20446x + 1.53305$ ($r = 0.99953$) (weighting: $1/x$)

Vial	Sample Name	Sample ID	Used for ICAL	Target Conc. (ng/L)	Calculated Conc. (ng/L)	Recovery (%)
29	KF34	L1	False	100.00	277.952521	278.0
30	KF35	L2	True	250.00	288.738668	115.5
31	KF36	L3	True	500.00	412.387210	82.5
32	KF37	L4	True	1000.00	1000.381834	100.0
33	KF38	L5	True	2500.00	2519.665202	100.8
34	KF39	L6	True	10000.00	10211.632783	102.1
35	KF40	L7	True	20000.00	19817.194303	99.1





	Isotope Dilution Calibration Curve Concentrations (ng/L)						
	KF34	KF35	KF36	KF37	KF38	KF39	KF40
PFBA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFPeA	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFHxA	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFHpA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFOA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFNA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFDA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFUnA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFDoA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFTTrDA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFTeDA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
NMeFOSAA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
NEtFOSAA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFOSA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFBS	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFPeS	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFHxS (Branched)	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFHpS	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
PFOS (Branched)	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFDS	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
PFNS	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
4:2FTS	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
6:2FTS	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
8:2FTS	101.00	252.50	505.00	1,010.00	2,525.00	10,100.00	20,200.00
3:3 FTCA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
5:3 FTCA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
7:3 FTCA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
HFPO-DA	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
Adona	100.00	250.00	500.00	1,000.00	2,500.00	10,000.00	20,000.00
9Cl-PF3ONS	93.20	233.00	466.00	932.00	2,330.00	9,320.00	18,640.00
11Cl-PF3OUdS	94.20	235.50	471.00	942.00	2,355.00	9,420.00	18,840.00
	Surrogates / Extracted Internal Standards						
13C4-PFBA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C5-PFPeA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C5-PFHxA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C4-PFHpA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C8-PFOA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C9-PFNA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C6-PFDA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C7-PFUnA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C2-PFDoA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C2-PFTeDA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
d3-MeFOSAA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
d5-EtFOSAA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C8-FOSA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C3-PFBS	232.25	232.25	232.25	232.25	232.25	232.25	232.25
13C3-PFHxS	236.50	236.50	236.50	236.50	236.50	236.50	236.50
13C8-PFOS	239.25	239.25	239.25	239.25	239.25	239.25	239.25
13C2-4:2FTS	233.75	233.75	233.75	233.75	233.75	233.75	233.75
13C2-6:2FTS	237.25	237.25	237.25	237.25	237.25	237.25	237.25
13C2-8:2FTS	239.50	239.50	239.50	239.50	239.50	239.50	239.50
13C3-HFPO-DA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
	Internal Standards						
13C3-PFBA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C2-PFOA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C2-PFDA	250.00	250.00	250.00	250.00	250.00	250.00	250.00
13C4-PFOS	238.75	238.75	238.75	238.75	238.75	238.75	238.75



	ICC (ng/L)
	KF42
PFBA	1,000.00
PFPeA	1,010.00
PFHxA	1,010.00
PFHpA	1,000.00
PFOA	1,000.00
PFNA	1,000.00
PFDA	1,000.00
PFUnA	1,000.00
PFDoA	1,000.00
PFTTrDA	1,000.00
PFTeDA	1,000.00
NMeFOSAA	1,000.00
NEtFOSAA	1,000.00
PFOSA	1,000.00
PFBS	1,010.00
PFPeS	1,000.00
PFHxS (Branched)	1,010.00
PFHpS	1,000.00
PFOS (Branched)	1,000.00
PFDS	1,010.00
PFNS	1,010.00
4:2FTS	1,000.00
6:2FTS	1,000.00
8:2FTS	1,010.00
3:3 FTCA	1,000.00
5:3 FTCA	1,000.00
7:3 FTCA	1,000.00
HFPO-DA	1,000.00
Adona	942.00
9Cl-PF3ONS	932.00
11Cl-PF3OUdS	942.00
13C4-PFBA	250.00
13C5-PFPeA	250.00
13C5-PFHxA	250.00
13C4-PFHpA	250.00
13C8-PFOA	250.00
13C9-PFNA	250.00
13C6-PFDA	250.00
13C7-PFUnA	250.00
13C2-PFDoA	250.00
13C2-PFTeDA	250.00
d3-MeFOSAA	250.00
d5-EtFOSAA	250.00
13C8-FOSA	250.00
13C3-PFBS	232.25
13C3-PFHxS	236.50
13C8-PFOS	239.25
13C2-4:2FTS	233.75
13C2-6:2FTS	237.25
13C2-8:2FTS	239.50
13C3-HFPO-DA	250.00
13C3-PFBA	250.00
13C2-PFOA	250.00
13C2-PFDA	250.00
13C4-PFOS	238.75

Sample Name	KF34	Injection Vial	29
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T21:46:13	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	39548.14	93.22	198.8	false	13C3-PFBS	31994.27	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.50	14955.23	85.56	148.1	false	13C3-PFBS	31994.27	232.25	PFBS	0.380	0.322	ü
PFHxA_1	313.0 / 269.0	1.82	35307.54	108.90	16.7	true	13C5-PFHxA	82326.95	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.79	2206.73	123.80	10.9	false	13C5-PFHxA	82326.95	250.00	PFHxA	0.060	0.070	ü
PFHpA_1	363.0 / 319.0	2.23	31292.02	108.34	30.5	true	13C4-PFHpA	94083.41	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.21	533.89	21.35	16.0	true	13C4-PFHpA	94083.41	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.25	44871.35	100.37	141.2	false	13C3-PFHxS	32955.63	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.25	12152.32	87.98	55.2	false	13C3-PFHxS	32955.63	236.50	PFHxS	0.270	0.289	ü
PFOA_1	413.0 / 369.0	2.64	36688.89	100.12	52.8	true	13C8-PFOA	104971.85	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.64	2911.63	119.37	51.2	true	13C8-PFOA	104971.85	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	3.04	34349.92	87.10	64.1	false	13C9-PFNA	95355.37	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.03	12393.03	93.41	69.8	false	13C9-PFNA	95355.37	250.00	PFNA	0.360	0.325	ü
PFOS_1	499.0 / 80.0	3.03	51864.99	93.40	91.9	true	13C8-PFOS	32334.87	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.05	7539.35	78.30	32.0	true	13C8-PFOS	32334.87	239.25	PFOS	0.150	0.177	ü
PFDA_1	513.0 / 469.0	3.39	35805.20	93.18	68.1	false	13C6-PFDA	86501.97	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.40	2036.97	121.94	88.9	true	13C6-PFDA	86501.97	250.00	PFDA	0.060	0.041	ü
PFUnA_1	563.0 / 519.0	3.71	29895.05	90.72	42.8	true	13C7-PFUnA	81358.64	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.69	1168.67	89.41	23.1	true	13C7-PFUnA	81358.64	250.00	PFUnA	0.040	0.048	ü
PFDoA_1	613.0 / 569.0	4.00	30063.14	92.22	65.9	false	13C2-PFDoA	84623.68	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	5738.16	87.36	62.2	false	13C2-PFDoA	84623.68	250.00	PFDoA	0.190	0.182	ü
PFTeDA_1	663.0 / 619.0	4.24	26825.45	72.20	90.4	false	13C2-PFTeDA	90343.69	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.22	1399.08	6.73	32.8	false	13C2-PFTeDA	90343.69	250.00	PFTeDA	0.050	0.071	ü
PFTeDA_1	713.0 / 669.0	4.46	35312.06	70.02	160.1	false	13C2-PFTeDA	90343.69	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.46	2087.72	91.77	84.0	false	13C2-PFTeDA	90343.69	250.00	PFTeDA	0.060	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.55	7765.07	82.83	811.3	false	d3-MeFOSAA	20229.30	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.53	4162.47	78.73	131.8	false	d3-MeFOSAA	20229.30	250.00	NMeFOSAA	0.540	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.70	8129.28	104.50	136.0	true	d5-EtFOSAA	19384.09	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.69	574.57	111.80	136.8	false	d5-EtFOSAA	19384.09	250.00	NEtFOSAA	0.070	0.063	ü
PFBA	213.0 / 169.0	1.04	246212.79	277.95	319.6	true	13C4-PFBA	85723.15	250.00				

Sample Name	KF35	Injection Vial	30
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T21:57:05	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.49	91537.09	242.99	398.6	false	13C3-PFBS	29406.00	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.49	33223.91	263.95	178.1	false	13C3-PFBS	29406.00	232.25	PFBS	0.360	0.322	ü
PFHxA_1	313.0 / 269.0	1.80	78913.26	239.34	26.0	true	13C5-PFHxA	84199.50	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.80	3815.03	185.62	18.4	false	13C5-PFHxA	84199.50	250.00	PFHxA	0.050	0.070	ü
PFHpA_1	363.0 / 319.0	2.21	70497.40	241.79	42.8	true	13C4-PFHpA	88295.89	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.19	2037.99	283.97	41.7	true	13C4-PFHpA	88295.89	250.00	PFHpA	0.030	0.021	ü
PFHxS_1	399.0 / 80.0	2.24	104442.46	239.30	286.5	false	13C3-PFHxS	29120.99	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.24	34107.74	265.57	167.4	false	13C3-PFHxS	29120.99	236.50	PFHxS	0.330	0.289	ü
PFOA_1	413.0 / 369.0	2.62	91222.29	254.40	74.9	true	13C8-PFOA	88623.90	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.61	6354.63	269.12	62.7	true	13C8-PFOA	88623.90	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	3.02	88266.03	231.92	102.4	false	13C9-PFNA	90732.32	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.02	26805.03	215.47	86.4	false	13C9-PFNA	90732.32	250.00	PFNA	0.300	0.325	ü
PFOS_1	499.0 / 80.0	3.02	129159.68	263.78	161.8	true	13C8-PFOS	25681.14	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.02	24692.07	282.83	107.4	true	13C8-PFOS	25681.14	239.25	PFOS	0.190	0.177	ü
PFDA_1	513.0 / 469.0	3.38	89833.32	243.38	107.8	false	13C6-PFDA	80557.26	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.38	2982.79	193.77	65.7	false	13C6-PFDA	80557.26	250.00	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	3.70	80399.66	242.81	81.3	false	13C7-PFUnA	79635.55	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.70	3667.34	236.17	71.5	false	13C7-PFUnA	79635.55	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.98	75416.83	246.99	100.0	false	13C2-PFDoA	80900.63	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	15330.27	272.68	95.0	false	13C2-PFDoA	80900.63	250.00	PFDoA	0.200	0.182	ü
PFTeDA_1	663.0 / 619.0	4.23	69439.28	226.32	133.2	false	13C2-PFTeDA	84884.96	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.23	5631.73	221.26	98.2	false	13C2-PFTeDA	84884.96	250.00	PFTeDA	0.080	0.071	ü
PFTeDA_1	713.0 / 669.0	4.44	101736.73	244.81	233.7	false	13C2-PFTeDA	84884.96	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.44	4786.16	238.04	135.5	false	13C2-PFTeDA	84884.96	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.52	22398.56	271.73	161925.2	false	d3-MeFOSAA	18233.15	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.53	11896.93	284.65	509.3	false	d3-MeFOSAA	18233.15	250.00	NMeFOSAA	0.530	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.69	20418.30	229.08	333.7	false	d5-EtFOSAA	21501.38	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.71	1144.51	202.04	34.1	false	d5-EtFOSAA	21501.38	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.02	200384.12	288.74	190.2	true	13C4-PFBA	68527.26	250.00				

Sample Name	KF36	Injection Vial	31
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:07:57	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	201602.50	554.19	529.3	false	13C3-PFBS	28748.11	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.50	62877.00	548.69	251.7	false	13C3-PFBS	28748.11	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.80	152633.11	501.31	36.3	true	13C5-PFHxA	77949.23	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.79	10841.93	498.89	37.6	false	13C5-PFHxA	77949.23	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.22	141775.06	489.32	54.5	true	13C4-PFHpA	85279.11	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	3226.73	506.60	62.5	true	13C4-PFHpA	85279.11	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.25	224362.93	526.09	405.8	false	13C3-PFHxS	27430.59	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.26	64112.26	523.61	251.0	false	13C3-PFHxS	27430.59	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.63	192404.22	501.81	112.9	false	13C8-PFOA	90776.59	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.63	11439.97	454.14	84.7	false	13C8-PFOA	90776.59	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	3.03	191468.52	535.62	172.5	false	13C9-PFNA	84816.40	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.03	59949.45	518.94	153.7	false	13C9-PFNA	84816.40	250.00	PFNA	0.310	0.325	ü
PFOS_1	499.0 / 80.0	3.03	264670.43	503.62	207.5	true	13C8-PFOS	26867.00	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.03	48773.33	522.62	196.8	false	13C8-PFOS	26867.00	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.40	201085.43	556.13	167.3	false	13C6-PFDA	78085.71	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.40	6647.79	450.14	119.3	false	13C6-PFDA	78085.71	250.00	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	3.71	172242.35	543.58	129.3	false	13C7-PFUnA	75561.94	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.70	8682.64	555.07	101.5	false	13C7-PFUnA	75561.94	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	4.00	159209.63	522.00	159.8	false	13C2-PFDoA	81337.69	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	27634.73	501.52	173.8	false	13C2-PFDoA	81337.69	250.00	PFDoA	0.170	0.182	ü
PFTeDA_1	663.0 / 619.0	4.24	160636.61	570.51	236.3	false	13C2-PFTeDA	81056.25	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.23	10560.56	490.98	153.8	false	13C2-PFTeDA	81056.25	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.46	217330.53	565.69	347.0	false	13C2-PFTeDA	81056.25	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.45	9097.27	483.53	210.8	false	13C2-PFTeDA	81056.25	250.00	PFTeDA	0.040	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.54	45504.22	458.10	908.5	false	d3-MeFOSAA	22071.38	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.54	23430.49	473.23	412.7	false	d3-MeFOSAA	22071.38	250.00	NMeFOSAA	0.510	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.71	41296.43	507.53	362.7	false	d5-EtFOSAA	19344.88	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.69	3191.28	629.50	34954.9	true	d5-EtFOSAA	19344.88	250.00	NEtFOSAA	0.080	0.063	ü
PFBA	213.0 / 169.0	1.02	236346.08	412.39	224.6	true	13C4-PFBA	67146.20	250.00				



Sample Name	KF37	Injection Vial	32
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:18:49	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.51	425929.12	1038.31	991.6	false	13C3-PFBS	32564.60	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.51	131723.04	1049.00	369.0	false	13C3-PFBS	32564.60	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.81	333858.42	988.21	60.6	true	13C5-PFHxA	86591.26	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.81	26153.40	1043.21	63.6	false	13C5-PFHxA	86591.26	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.23	318643.86	978.38	99.6	false	13C4-PFHpA	94561.97	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	5670.49	840.46	71.7	false	13C4-PFHpA	94561.97	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.26	487711.86	1062.61	472.3	false	13C3-PFHxS	29079.95	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.26	141280.92	1081.53	327.4	false	13C3-PFHxS	29079.95	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.64	422199.90	1000.56	214.1	false	13C8-PFOA	97794.41	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.64	23373.63	838.98	109.0	false	13C8-PFOA	97794.41	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	3.04	391539.65	1038.30	218.6	false	13C9-PFNA	89315.18	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.03	133615.83	1101.11	231.6	false	13C9-PFNA	89315.18	250.00	PFNA	0.340	0.325	ü
PFOS_1	499.0 / 80.0	3.03	573012.22	1114.09	287.9	false	13C8-PFOS	25899.62	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.03	103225.37	1132.07	307.8	false	13C8-PFOS	25899.62	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.40	403744.65	972.96	221.0	false	13C6-PFDA	89301.56	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.39	19237.49	1144.45	183.4	false	13C6-PFDA	89301.56	250.00	PFDA	0.050	0.041	ü
PFUnA_1	563.0 / 519.0	3.71	356513.61	992.68	211.8	false	13C7-PFUnA	85379.13	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.71	17383.38	965.86	187.8	false	13C7-PFUnA	85379.13	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	4.00	344600.28	996.72	253.2	false	13C2-PFDoA	92458.33	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	60401.64	979.02	198.9	false	13C2-PFDoA	92458.33	250.00	PFDoA	0.180	0.182	ü
PFTeDA_1	663.0 / 619.0	4.24	352683.50	1130.80	315.8	false	13C2-PFTeDA	90986.14	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.24	23978.70	1053.08	232.1	false	13C2-PFTeDA	90986.14	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.46	470130.25	1103.67	502.8	false	13C2-PFTeDA	90986.14	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.45	22007.93	1053.42	378.5	false	13C2-PFTeDA	90986.14	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.54	100430.52	1071.17	768.1	false	d3-MeFOSAA	20911.23	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.54	49304.01	1070.74	518.3	false	d3-MeFOSAA	20911.23	250.00	NMeFOSAA	0.490	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.70	88523.71	1046.07	546.4	false	d5-EtFOSAA	19996.78	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.71	4654.08	888.77	17476.0	false	d5-EtFOSAA	19996.78	250.00	NEtFOSAA	0.050	0.063	ü
PFBA	213.0 / 169.0	1.05	509519.38	1000.38	387.3	true	13C4-PFBA	80204.56	250.00				

Sample Name	KF38	Injection Vial	33
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:29:41	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	1006038.29	2390.95	1191.0	false	13C3-PFBS	33500.93	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.50	299529.88	2367.50	605.4	false	13C3-PFBS	33500.93	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.80	816350.35	2509.26	103.2	false	13C5-PFHxA	83444.85	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.80	62195.38	2524.12	99.9	false	13C5-PFHxA	83444.85	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.21	788772.57	2419.25	166.9	false	13C4-PFHpA	93907.78	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.21	16182.31	2535.62	131.4	false	13C4-PFHpA	93907.78	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.25	1147679.03	2294.52	645.8	false	13C3-PFHxS	31443.35	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.24	325094.33	2294.40	529.7	false	13C3-PFHxS	31443.35	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.63	1017931.84	2350.09	312.5	false	13C8-PFOA	99176.67	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.63	67395.69	2339.52	179.3	false	13C8-PFOA	99176.67	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	3.02	1003173.76	2764.93	290.9	false	13C9-PFNA	85833.47	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.02	310008.96	2661.87	402.7	false	13C9-PFNA	85833.47	250.00	PFNA	0.310	0.325	ü
PFOS_1	499.0 / 80.0	3.02	1419015.43	2339.06	384.8	false	13C8-PFOS	30352.05	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.02	255048.32	2372.60	396.3	false	13C8-PFOS	30352.05	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.39	978371.11	2439.40	363.3	false	13C6-PFDA	86069.85	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.39	37378.12	2310.75	403.0	false	13C6-PFDA	86069.85	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.71	865139.39	2582.20	300.9	true	13C7-PFUnA	79466.59	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.71	46419.99	2728.32	270.7	false	13C7-PFUnA	79466.59	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.99	839241.93	2500.73	368.0	false	13C2-PFDoA	89913.70	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	149057.14	2508.84	363.1	false	13C2-PFDoA	89913.70	250.00	PFDoA	0.180	0.182	ü
PFTeDA_1	663.0 / 619.0	4.24	815937.95	2729.95	480.5	false	13C2-PFTeDA	87893.83	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.23	56239.86	2640.48	392.9	false	13C2-PFTeDA	87893.83	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.45	1098258.02	2689.62	811.8	false	13C2-PFTeDA	87893.83	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.45	54437.00	2712.61	533.1	false	13C2-PFTeDA	87893.83	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.53	236500.77	2836.09	996.6	false	d3-MeFOSAA	18631.54	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.53	110136.23	2708.80	586.5	false	d3-MeFOSAA	18631.54	250.00	NMeFOSAA	0.470	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.70	221175.56	2367.63	862.0	false	d5-EtFOSAA	22003.68	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.70	12962.59	2252.09	50786.6	true	d5-EtFOSAA	22003.68	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.04	1037770.81	2519.67	403.3	true	13C4-PFBA	75902.38	250.00				



Sample Name	KF39	Injection Vial	34
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:40:33	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	3940111.59	10881.06	2507.3	false	13C3-PFBS	28881.22	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.50	1176079.09	10926.02	1174.3	false	13C3-PFBS	28881.22	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.81	3177151.80	10235.42	254.8	false	13C5-PFHxA	79643.81	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.80	248568.44	10460.08	219.6	false	13C5-PFHxA	79643.81	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.22	3046181.91	10381.05	410.9	false	13C4-PFHpA	84166.78	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	55257.26	9840.98	272.2	false	13C4-PFHpA	84166.78	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.25	4386921.61	11058.88	836.9	false	13C3-PFHxS	24804.88	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.25	1253190.31	11186.83	725.8	false	13C3-PFHxS	24804.88	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.63	3820578.76	10596.10	462.4	false	13C8-PFOA	81988.00	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.63	254696.75	10606.02	307.0	false	13C8-PFOA	81988.00	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	3.03	3544609.16	10023.35	569.1	false	13C9-PFNA	83617.80	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.03	1161799.40	10247.07	637.0	false	13C9-PFNA	83617.80	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	3.02	5161231.66	10098.85	523.3	false	13C8-PFOS	25455.07	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.03	930898.84	10282.69	621.1	false	13C8-PFOS	25455.07	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.39	3679348.55	10629.37	626.7	false	13C6-PFDA	74177.82	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.39	147603.89	10600.61	541.3	false	13C6-PFDA	74177.82	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.71	3354433.39	10279.10	573.8	false	13C7-PFUnA	77319.13	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.71	168262.89	10101.89	484.9	false	13C7-PFUnA	77319.13	250.00	PFUnA	0.050	0.048	ü
PFDaA_1	613.0 / 569.0	3.99	3276655.09	10984.78	529.7	false	13C2-PFDaA	79994.02	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.99	578682.08	11001.36	521.3	false	13C2-PFDaA	79994.02	250.00	PFDaA	0.180	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.24	3074203.37	10559.08	715.9	false	13C2-PFTTrDA	85980.14	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.24	217868.96	10630.15	595.8	false	13C2-PFTTrDA	85980.14	250.00	PFTTrDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.46	4184285.40	10517.52	1243.8	false	13C2-PFTeDA	85980.14	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.45	209903.17	10721.19	1026.0	false	13C2-PFTeDA	85980.14	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.54	892525.10	9630.08	1607.9	false	d3-MeFOSAA	20723.07	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.54	438312.90	9733.84	1276.2	false	d3-MeFOSAA	20723.07	250.00	NMeFOSAA	0.490	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.70	808462.72	10514.38	975.5	false	d5-EtFOSAA	18075.85	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.70	48389.52	10239.59	474.1	true	d5-EtFOSAA	18075.85	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.05	3626729.40	10211.63	709.9	true	13C4-PFBA	71489.05	250.00				

Sample Name	KF40	Injection Vial	35
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:51:24	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	8235681.11	19492.78	3084.0	false	13C3-PFBS	33705.41	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.49	2439717.81	19452.78	1532.0	false	13C3-PFBS	33705.41	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.80	6719729.88	20111.04	360.8	false	13C5-PFHxA	85735.58	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.80	508774.85	19857.78	328.0	false	13C5-PFHxA	85735.58	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.21	6233700.62	19731.87	417.1	false	13C4-PFHpA	90561.75	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.21	121889.50	20242.37	374.0	false	13C4-PFHpA	90561.75	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.24	8804902.29	19411.72	790.2	false	13C3-PFHxS	28345.85	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.24	2465341.33	19253.57	872.9	false	13C3-PFHxS	28345.85	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.63	7937824.95	19546.91	550.1	false	13C8-PFOA	92257.07	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.62	533534.10	19722.85	428.3	false	13C8-PFOA	92257.07	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	3.02	7103281.91	19668.79	765.4	false	13C9-PFNA	85385.34	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.02	2258766.16	19512.13	673.0	false	13C9-PFNA	85385.34	250.00	PFNA	0.320	0.325	ü
PFOS_1	499.0 / 80.0	3.01	10303854.00	20280.70	484.2	false	13C8-PFOS	25288.06	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.02	1801842.14	20022.40	624.1	false	13C8-PFOS	25288.06	239.25	PFOS	0.170	0.177	ü
PFDA_1	513.0 / 469.0	3.38	7328566.62	19415.58	795.1	false	13C6-PFDA	80871.54	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.38	296406.17	19528.34	500.9	false	13C6-PFDA	80871.54	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.70	6540395.52	19618.92	591.1	false	13C7-PFUnA	78972.78	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.70	335067.51	19673.28	493.6	false	13C7-PFUnA	78972.78	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.99	6571741.86	19006.56	647.8	false	13C2-PFDoA	92735.62	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.99	1157855.52	18999.22	607.3	false	13C2-PFDoA	92735.62	250.00	PFDoA	0.180	0.182	ü
PFTeDA_1	663.0 / 619.0	4.23	6194076.14	19061.15	928.6	false	13C2-PFTeDA	96029.65	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.23	438750.08	19214.05	745.1	false	13C2-PFTeDA	96029.65	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.45	8507644.11	19158.67	1409.5	false	13C2-PFTeDA	96029.65	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.45	416382.07	19049.44	1347.4	false	13C2-PFTeDA	96029.65	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.53	1764518.68	17794.17	706.6	false	d3-MeFOSAA	22175.57	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.53	852883.00	17713.02	795.1	false	d3-MeFOSAA	22175.57	250.00	NMeFOSAA	0.480	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.69	1577521.61	19580.81	887.0	false	d5-EtFOSAA	18934.46	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.70	99126.25	20026.21	775.4	false	d5-EtFOSAA	18934.46	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.04	7203869.08	19817.19	868.7	true	13C4-PFBA	74259.42	250.00				

Sample Name	KF34	Injection Vial	29
Sample ID	L1	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T21:46:13	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.06	85723.15	274.90	1366.9	false	13C3-PFBA	51147.92	250.00				
13C2-PFDoA	615.0 / 570.0	3.99	84623.68	241.09	710.4	false	13C2-PFDA	87176.19	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.54	19720.67	232.88	183.3	false	13C4-PFOS	29522.38	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.70	19559.03	223.28	233.4	false	13C4-PFOS	29522.38	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.81	82326.95	240.54	795.6	false	13C2-PFOA	96585.14	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.22	94083.41	252.85	562.5	false	13C2-PFOA	96585.14	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.63	104971.85	271.69	889.4	false	13C2-PFOA	96585.14	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.02	95355.37	262.78	698.6	false	13C2-PFOA	96585.14	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	86501.97	258.06	587.6	false	13C2-PFDA	87176.19	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.70	81358.64	250.11	419.4	false	13C2-PFDA	87176.19	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	90343.69	250.69	1247.1	false	13C2-PFDA	87176.19	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	31994.27	231.47	294.1	false	13C4-PFOS	29522.38	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.25	32333.12	240.82	336.6	false	13C4-PFOS	29522.38	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.02	31644.03	258.19	171.8	false	13C4-PFOS	29522.38	238.75		N/A	N/A	ü

Sample Name	KF35	Injection Vial	30
Sample ID	L2	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T21:57:05	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	68527.26	223.02	589.8	false	13C3-PFBA	50397.31	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	80900.63	236.27	847.3	false	13C2-PFDA	85041.75	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.53	18905.05	250.80	250.9	false	13C4-PFOS	26278.59	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.69	21623.58	277.32	315.1	false	13C4-PFOS	26278.59	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.78	84199.50	253.75	704.2	false	13C2-PFOA	93637.07	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.20	88295.89	244.77	757.5	false	13C2-PFOA	93637.07	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.62	88623.90	236.60	1401.7	false	13C2-PFOA	93637.07	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.01	90732.32	257.92	992.2	false	13C2-PFOA	93637.07	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.37	80557.26	246.35	831.4	false	13C2-PFDA	85041.75	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	79635.55	250.96	365.5	false	13C2-PFDA	85041.75	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.44	84884.96	241.46	1287.0	false	13C2-PFDA	85041.75	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.48	29406.00	239.00	236.8	false	13C4-PFOS	26278.59	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.24	30019.80	251.19	330.6	false	13C4-PFOS	26278.59	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.01	26746.58	245.17	142.3	false	13C4-PFOS	26278.59	238.75		N/A	N/A	ü



Sample Name	KF36	Injection Vial	31
Sample ID	L3	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:07:57	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	67146.20	228.90	677.5	false	13C3-PFBA	48113.66	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	81337.69	226.31	953.5	false	13C2-PFDA	89264.58	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.54	22135.81	282.44	309.9	false	13C4-PFOS	27322.78	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.70	19123.46	235.89	271.8	false	13C4-PFOS	27322.78	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.79	77949.23	240.87	596.9	false	13C2-PFOA	91323.66	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.21	85279.11	242.39	626.6	false	13C2-PFOA	91323.66	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.63	90776.59	248.49	825.2	false	13C2-PFOA	91323.66	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.02	84816.40	247.21	1094.2	false	13C2-PFOA	91323.66	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	78085.71	227.50	796.2	false	13C2-PFDA	89264.58	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.70	75561.94	226.85	720.6	false	13C2-PFDA	89264.58	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	81056.25	219.66	1169.2	false	13C2-PFDA	89264.58	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	28748.11	224.73	351.6	false	13C4-PFOS	27322.78	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.25	27707.08	222.98	296.4	false	13C4-PFOS	27322.78	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.02	26452.65	233.21	175.4	false	13C4-PFOS	27322.78	238.75		N/A	N/A	ü

Sample Name	KF37	Injection Vial	32
Sample ID	L4	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:18:49	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	80204.56	265.86	959.3	false	13C3-PFBA	49482.19	250.00				
13C2-PFDoA	615.0 / 570.0	3.99	92458.33	249.08	731.6	false	13C2-PFDA	92190.84	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.55	22188.13	264.45	243.4	false	13C4-PFOS	29250.92	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.70	20191.93	232.65	314.1	false	13C4-PFOS	29250.92	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.80	86591.26	243.18	809.2	false	13C2-PFOA	100485.00	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.22	94561.97	244.27	567.0	false	13C2-PFOA	100485.00	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.63	97794.41	243.29	578.7	false	13C2-PFOA	100485.00	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.02	89315.18	236.59	883.3	false	13C2-PFOA	100485.00	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	89301.56	251.92	700.3	false	13C2-PFDA	92190.84	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.70	85379.13	248.19	524.3	false	13C2-PFDA	92190.84	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	90986.14	238.74	1199.7	false	13C2-PFDA	92190.84	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	32564.60	237.78	281.7	false	13C4-PFOS	29250.92	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.25	30136.62	226.54	275.2	false	13C4-PFOS	29250.92	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.03	26261.93	216.27	188.4	false	13C4-PFOS	29250.92	238.75		N/A	N/A	ü



Sample Name	KF38	Injection Vial	33
Sample ID	L5	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:29:41	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	75902.38	258.26	668.5	false	13C3-PFBA	48205.64	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	89913.70	258.84	963.6	false	13C2-PFDA	86272.87	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.54	18759.56	218.36	250.2	false	13C4-PFOS	29951.07	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.69	21722.40	244.43	257.0	false	13C4-PFOS	29951.07	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.79	83444.85	249.17	655.7	false	13C2-PFOA	94506.28	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.21	93907.78	257.93	469.1	false	13C2-PFOA	94506.28	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.62	99176.67	262.34	938.5	false	13C2-PFOA	94506.28	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.01	85833.47	241.75	735.8	false	13C2-PFOA	94506.28	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	86069.85	259.46	2980.3	false	13C2-PFDA	86272.87	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	79466.59	246.85	673.3	false	13C2-PFDA	86272.87	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	87893.83	246.45	1161.7	false	13C2-PFDA	86272.87	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.48	33500.93	238.90	287.3	false	13C4-PFOS	29951.07	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.25	31451.25	230.90	332.1	false	13C4-PFOS	29951.07	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.02	29630.76	238.30	174.0	false	13C4-PFOS	29951.07	238.75		N/A	N/A	ü

Sample Name	KF39	Injection Vial	34
Sample ID	L6	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:40:33	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	71489.05	252.34	693.0	false	13C3-PFBA	46467.92	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	79994.02	260.43	741.7	false	13C2-PFDA	76288.92	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.53	20046.13	251.08	137.8	false	13C4-PFOS	27833.94	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.69	19448.37	235.49	272.2	false	13C4-PFOS	27833.94	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.80	79643.81	254.09	697.6	false	13C2-PFOA	88454.29	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.21	84166.78	246.99	672.0	false	13C2-PFOA	88454.29	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.62	81988.00	231.71	874.0	false	13C2-PFOA	88454.29	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.02	83617.80	251.62	769.8	false	13C2-PFOA	88454.29	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	74177.82	252.87	695.8	false	13C2-PFDA	76288.92	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	77319.13	271.61	586.7	false	13C2-PFDA	76288.92	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	85980.14	272.63	1135.0	false	13C2-PFDA	76288.92	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	28881.22	221.62	312.0	false	13C4-PFOS	27833.94	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.25	24445.77	193.12	238.3	false	13C4-PFOS	27833.94	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.03	23860.43	206.49	134.2	false	13C4-PFOS	27833.94	238.75		N/A	N/A	ü



Sample Name	KF40	Injection Vial	35
Sample ID	L7	Injection Volume	10.00
Sample Type	Standard	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T22:51:24	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	74259.42	246.72	696.8	false	13C3-PFBA	49366.90	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	92735.62	277.98	798.4	false	13C2-PFDA	82856.34	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.52	22377.04	363.16	136.7	false	13C4-PFOS	21481.26	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.68	19181.44	300.94	261.2	false	13C4-PFOS	21481.26	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.79	85735.58	268.41	694.9	false	13C2-PFOA	90137.42	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.20	90561.75	260.80	502.9	false	13C2-PFOA	90137.42	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.61	92257.07	255.87	1407.4	false	13C2-PFOA	90137.42	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.01	85385.34	252.14	1000.1	false	13C2-PFOA	90137.42	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.37	80871.54	253.84	2061.8	false	13C2-PFDA	82856.34	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	78972.78	255.43	521.0	false	13C2-PFDA	82856.34	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	96029.65	280.36	1363.0	false	13C2-PFDA	82856.34	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.48	33705.41	335.13	349.8	false	13C4-PFOS	21481.26	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.24	28325.30	289.94	260.9	false	13C4-PFOS	21481.26	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.02	24712.42	277.11	188.4	false	13C4-PFOS	21481.26	238.75		N/A	N/A	ü

Sample Name	KF42 ICC	Injection Vial	37
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:13:07	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.50	974.370061	1010.00	96.47
PFBS_2	298.9 / 99.0	1.50	984.221414	1010.00	97.45
PFHxA_1	313.0 / 269.0	1.81	970.708734	1010.00	96.11
PFHxA_2	313.0 / 119.0	1.80	927.879721	1010.00	91.87
PFHpA_1	363.0 / 319.0	2.22	874.593380	1000.00	87.46
PFHpA_2	363.0 / 169.0	2.22	723.659629	1000.00	72.37
PFHxS_1	399.0 / 80.0	2.24	925.376037	1010.00	91.62
PFHxS_2	399.0 / 99.0	2.25	831.635203	1010.00	82.34
PFOA_1	413.0 / 369.0	2.63	951.835362	1000.00	95.18
PFOA_2	413.0 / 169.0	2.63	958.832139	1000.00	95.88
PFNA_1	463.0 / 419.0	3.02	906.257152	1000.00	90.63
PFNA_2	463.0 / 219.0	3.02	865.311938	1000.00	86.53
PFOS_1	499.0 / 80.0	3.02	944.962857	1010.00	93.56
PFOS_2	499.0 / 99.0	3.02	996.591888	1010.00	98.67
PFDA_1	513.0 / 469.0	3.38	930.877075	1000.00	93.09
PFDA_2	513.0 / 219.0	3.39	900.406532	1000.00	90.04
PFUnA_1	563.0 / 519.0	3.70	930.694217	1000.00	93.07
PFUnA_2	563.0 / 269.0	3.71	1149.681407	1000.00	114.97
PFDoA_1	613.0 / 569.0	3.98	989.020325	1000.00	98.90
PFDoA_2	613.0 / 319.0	3.98	975.938415	1000.00	97.59
PFTTrDA_1	663.0 / 619.0	4.23	1041.504254	1000.00	104.15
PFTTrDA_2	663.0 / 169.0	4.23	954.832799	1000.00	95.48
PFTeDA_1	713.0 / 669.0	4.45	1000.978335	1000.00	100.10
PFTeDA_2	713.0 / 169.0	4.44	944.222187	1000.00	94.42
NMeFOSAA_1	570.0 / 419.0	3.53	967.768562	1000.00	96.78
NMeFOSAA_2	570.0 / 512.0	3.53	1000.213280	1000.00	100.02
NEtFOSAA_1	584.0 / 419.0	3.69	985.681351	1000.00	98.57
NEtFOSAA_2	584.0 / 483.0	3.70	780.856297	1000.00	78.09
PFBA	213.0 / 169.0	1.05	1105.074743	1000.00	110.51

Sample Name	KF37 ISC	Injection Vial	4
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:42:56	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.47	1113.464222	1010.00	110.24
PFBS_2	298.9 / 99.0	1.47	1104.749714	1010.00	109.38
PFHxA_1	313.0 / 269.0	1.79	1018.489016	1010.00	100.84
PFHxA_2	313.0 / 119.0	1.79	1072.142338	1010.00	106.15
PFHpA_1	363.0 / 319.0	2.18	1014.071938	1000.00	101.41
PFHpA_2	363.0 / 169.0	2.18	1079.629324	1000.00	107.96
PFHxS_1	399.0 / 80.0	2.20	991.230822	1010.00	98.14
PFHxS_2	399.0 / 99.0	2.20	1019.485613	1010.00	100.94
PFOA_1	413.0 / 369.0	2.59	959.771325	1000.00	95.98
PFOA_2	413.0 / 169.0	2.58	937.532413	1000.00	93.75
PFNA_1	463.0 / 419.0	2.97	987.974094	1000.00	98.80
PFNA_2	463.0 / 219.0	2.97	1051.233238	1000.00	105.12
PFOS_1	499.0 / 80.0	2.96	1027.045334	1010.00	101.69
PFOS_2	499.0 / 99.0	2.96	1039.008216	1010.00	102.87
PFDA_1	513.0 / 469.0	3.32	1070.247358	1000.00	107.02
PFDA_2	513.0 / 219.0	3.32	1176.546172	1000.00	117.65
PFUnA_1	563.0 / 519.0	3.64	1084.794043	1000.00	108.48
PFUnA_2	563.0 / 269.0	3.64	990.010170	1000.00	99.00
PFDoA_1	613.0 / 569.0	3.92	988.882050	1000.00	98.89
PFDoA_2	613.0 / 319.0	3.92	986.558402	1000.00	98.66
PFTTrDA_1	663.0 / 619.0	4.17	1107.836462	1000.00	110.78
PFTTrDA_2	663.0 / 169.0	4.17	950.121640	1000.00	95.01
PFTeDA_1	713.0 / 669.0	4.38	1082.584322	1000.00	108.26
PFTeDA_2	713.0 / 169.0	4.38	1074.851784	1000.00	107.49
NMeFOSAA_1	570.0 / 419.0	3.47	1042.316550	1000.00	104.23
NMeFOSAA_2	570.0 / 512.0	3.47	1067.380988	1000.00	106.74
NEtFOSAA_1	584.0 / 419.0	3.63	1007.121977	1000.00	100.71
NEtFOSAA_2	584.0 / 483.0	3.63	1009.031171	1000.00	100.90
PFBA	213.0 / 169.0	1.05	1258.681915	1000.00	125.87

Sample Name	KF37 CCV	Injection Vial	3
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:29:51	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.47	1063.435575	1010.00	105.29
PFBS_2	298.9 / 99.0	1.47	1033.627621	1010.00	102.34
PFHxA_1	313.0 / 269.0	1.78	1010.899923	1010.00	100.09
PFHxA_2	313.0 / 119.0	1.78	994.967962	1010.00	98.51
PFHpA_1	363.0 / 319.0	2.17	1026.212834	1000.00	102.62
PFHpA_2	363.0 / 169.0	2.17	1023.575660	1000.00	102.36
PFHxS_1	399.0 / 80.0	2.19	1142.294187	1010.00	113.10
PFHxS_2	399.0 / 99.0	2.19	1174.443664	1010.00	116.28
PFOA_1	413.0 / 369.0	2.57	979.108092	1000.00	97.91
PFOA_2	413.0 / 169.0	2.57	928.332640	1000.00	92.83
PFNA_1	463.0 / 419.0	2.95	1049.733243	1000.00	104.97
PFNA_2	463.0 / 219.0	2.95	1077.606956	1000.00	107.76
PFOS_1	499.0 / 80.0	2.94	1047.098478	1010.00	103.67
PFOS_2	499.0 / 99.0	2.94	1025.247143	1010.00	101.51
PFDA_1	513.0 / 469.0	3.31	1019.953570	1000.00	102.00
PFDA_2	513.0 / 219.0	3.30	981.632532	1000.00	98.16
PFUnA_1	563.0 / 519.0	3.62	1165.406022	1000.00	116.54
PFUnA_2	563.0 / 269.0	3.62	1154.105964	1000.00	115.41
PFDoA_1	613.0 / 569.0	3.90	1050.570661	1000.00	105.06
PFDoA_2	613.0 / 319.0	3.90	1025.808094	1000.00	102.58
PFTTrDA_1	663.0 / 619.0	4.15	1130.187925	1000.00	113.02
PFTTrDA_2	663.0 / 169.0	4.15	1047.854261	1000.00	104.79
PFTeDA_1	713.0 / 669.0	4.36	1099.045865	1000.00	109.90
PFTeDA_2	713.0 / 169.0	4.35	1127.306852	1000.00	112.73
NMeFOSAA_1	570.0 / 419.0	3.45	1020.822650	1000.00	102.08
NMeFOSAA_2	570.0 / 512.0	3.46	980.324771	1000.00	98.03
NEtFOSAA_1	584.0 / 419.0	3.61	910.184807	1000.00	91.02
NEtFOSAA_2	584.0 / 483.0	3.60	849.907779	1000.00	84.99
PFBA	213.0 / 169.0	1.04	1220.805586	1000.00	122.08

Sample Name	KF38 CCV	Injection Vial	15
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:40:19	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.47	2541.327794	2525.00	100.65
PFBS_2	298.9 / 99.0	1.47	2476.660210	2525.00	98.09
PFHxA_1	313.0 / 269.0	1.78	2482.680312	2525.00	98.32
PFHxA_2	313.0 / 119.0	1.78	2538.846981	2525.00	100.55
PFHpA_1	363.0 / 319.0	2.17	2421.095783	2500.00	96.84
PFHpA_2	363.0 / 169.0	2.16	2602.968480	2500.00	104.12
PFHxS_1	399.0 / 80.0	2.19	2539.522975	2525.00	100.58
PFHxS_2	399.0 / 99.0	2.19	2508.184364	2525.00	99.33
PFOA_1	413.0 / 369.0	2.57	2334.066980	2500.00	93.36
PFOA_2	413.0 / 169.0	2.56	2236.007642	2500.00	89.44
PFNA_1	463.0 / 419.0	2.95	2407.774383	2500.00	96.31
PFNA_2	463.0 / 219.0	2.95	2368.528701	2500.00	94.74
PFOS_1	499.0 / 80.0	2.93	2369.528772	2525.00	93.84
PFOS_2	499.0 / 99.0	2.94	2504.036912	2525.00	99.17
PFDA_1	513.0 / 469.0	3.30	2388.072202	2500.00	95.52
PFDA_2	513.0 / 219.0	3.30	2242.774236	2500.00	89.71
PFUnA_1	563.0 / 519.0	3.61	2676.559749	2500.00	107.06
PFUnA_2	563.0 / 269.0	3.61	2656.467073	2500.00	106.26
PFDoA_1	613.0 / 569.0	3.89	2583.442396	2500.00	103.34
PFDoA_2	613.0 / 319.0	3.89	2411.870003	2500.00	96.47
PFTTrDA_1	663.0 / 619.0	4.14	2771.386545	2500.00	110.86
PFTTrDA_2	663.0 / 169.0	4.13	2686.560624	2500.00	107.46
PFTTeDA_1	713.0 / 669.0	4.35	2686.051194	2500.00	107.44
PFTTeDA_2	713.0 / 169.0	4.35	2679.054571	2500.00	107.16
NMeFOSAA_1	570.0 / 419.0	3.44	2434.700844	2500.00	97.39
NMeFOSAA_2	570.0 / 512.0	3.44	2411.942323	2500.00	96.48
NEtFOSAA_1	584.0 / 419.0	3.60	2457.151942	2500.00	98.29
NEtFOSAA_2	584.0 / 483.0	3.60	2581.159200	2500.00	103.25
PFBA	213.0 / 169.0	1.04	2808.729889	2500.00	112.35

Sample Name	KF37 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:29:02	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.47	1045.976090	1010.00	103.56
PFBS_2	298.9 / 99.0	1.47	1060.489994	1010.00	105.00
PFHxA_1	313.0 / 269.0	1.78	939.422334	1010.00	93.01
PFHxA_2	313.0 / 119.0	1.78	918.864985	1010.00	90.98
PFHpA_1	363.0 / 319.0	2.16	997.260524	1000.00	99.73
PFHpA_2	363.0 / 169.0	2.16	1016.469045	1000.00	101.65
PFHxS_1	399.0 / 80.0	2.18	1050.918613	1010.00	104.05
PFHxS_2	399.0 / 99.0	2.18	989.536825	1010.00	97.97
PFOA_1	413.0 / 369.0	2.56	995.416982	1000.00	99.54
PFOA_2	413.0 / 169.0	2.56	977.942067	1000.00	97.79
PFNA_1	463.0 / 419.0	2.94	953.316425	1000.00	95.33
PFNA_2	463.0 / 219.0	2.94	990.461654	1000.00	99.05
PFOS_1	499.0 / 80.0	2.93	1005.419678	1010.00	99.55
PFOS_2	499.0 / 99.0	2.93	1024.234015	1010.00	101.41
PFDA_1	513.0 / 469.0	3.29	1002.805832	1000.00	100.28
PFDA_2	513.0 / 219.0	3.29	1031.215991	1000.00	103.12
PFUnA_1	563.0 / 519.0	3.60	1142.899693	1000.00	114.29
PFUnA_2	563.0 / 269.0	3.60	1035.067314	1000.00	103.51
PFDoA_1	613.0 / 569.0	3.88	1119.381277	1000.00	111.94
PFDoA_2	613.0 / 319.0	3.88	1020.757884	1000.00	102.08
PFTTrDA_1	663.0 / 619.0	4.13	1133.433218	1000.00	113.34
PFTTrDA_2	663.0 / 169.0	4.12	1111.592073	1000.00	111.16
PFTTeDA_1	713.0 / 669.0	4.34	1080.887871	1000.00	108.09
PFTTeDA_2	713.0 / 169.0	4.33	1112.303730	1000.00	111.23
NMeFOSAA_1	570.0 / 419.0	3.44	1117.475651	1000.00	111.75
NMeFOSAA_2	570.0 / 512.0	3.44	1153.547441	1000.00	115.35
NEtFOSAA_1	584.0 / 419.0	3.59	931.928562	1000.00	93.19
NEtFOSAA_2	584.0 / 483.0	3.58	1018.910939	1000.00	101.89
PFBA	213.0 / 169.0	1.04	1297.832469	1000.00	129.78

Sample Name	KF38 CCV	Injection Vial	35
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T23:17:39	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
PFBS_1	298.9 / 80.0	1.46	2683.433888	2525.00	106.27
PFBS_2	298.9 / 99.0	1.46	2733.712902	2525.00	108.27
PFHxA_1	313.0 / 269.0	1.76	2565.544890	2525.00	101.61
PFHxA_2	313.0 / 119.0	1.76	2612.621513	2525.00	103.47
PFHpA_1	363.0 / 319.0	2.15	2380.304849	2500.00	95.21
PFHpA_2	363.0 / 169.0	2.16	2185.821886	2500.00	87.43
PFHxS_1	399.0 / 80.0	2.17	2473.346869	2525.00	97.95
PFHxS_2	399.0 / 99.0	2.17	2499.742234	2525.00	99.00
PFOA_1	413.0 / 369.0	2.55	2286.160772	2500.00	91.45
PFOA_2	413.0 / 169.0	2.55	2187.065647	2500.00	87.48
PFNA_1	463.0 / 419.0	2.93	2629.184183	2500.00	105.17
PFNA_2	463.0 / 219.0	2.93	2540.925983	2500.00	101.64
PFOS_1	499.0 / 80.0	2.93	2291.594307	2525.00	90.76
PFOS_2	499.0 / 99.0	2.93	2334.526557	2525.00	92.46
PFDA_1	513.0 / 469.0	3.29	2304.164429	2500.00	92.17
PFDA_2	513.0 / 219.0	3.28	2243.585706	2500.00	89.74
PFUnA_1	563.0 / 519.0	3.60	2557.970478	2500.00	102.32
PFUnA_2	563.0 / 269.0	3.60	2360.675801	2500.00	94.43
PFDoA_1	613.0 / 569.0	3.88	2643.949732	2500.00	105.76
PFDoA_2	613.0 / 319.0	3.88	2423.181178	2500.00	96.93
PFTTrDA_1	663.0 / 619.0	4.13	2759.028303	2500.00	110.36
PFTTrDA_2	663.0 / 169.0	4.12	2708.091796	2500.00	108.32
PFTTeDA_1	713.0 / 669.0	4.34	2682.406671	2500.00	107.30
PFTTeDA_2	713.0 / 169.0	4.33	2753.558838	2500.00	110.14
NMeFOSAA_1	570.0 / 419.0	3.44	2245.444579	2500.00	89.82
NMeFOSAA_2	570.0 / 512.0	3.44	2235.627161	2500.00	89.43
NEtFOSAA_1	584.0 / 419.0	3.59	2381.890445	2500.00	95.28
NEtFOSAA_2	584.0 / 483.0	3.59	2439.859679	2500.00	97.59
PFBA	213.0 / 169.0	1.03	3046.166585	2500.00	121.85

Sample Name	KF42 ICC	Injection Vial	37
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:13:07	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.04	246.092274	250.00	98.44
13C2-PFDoA	615.0 / 570.0	3.98	231.927700	250.00	92.77
d3-MeFOSAA	573.0 / 419.0	3.53	253.395182	250.00	101.36
d5-EtFOSAA	589.0 / 419.0	3.69	245.492199	250.00	98.20
13C5-PFHxA	318.0 / 273.0	1.79	238.880278	250.00	95.55
13C4-PFHpA	367.0 / 322.0	2.21	258.382639	250.00	103.35
13C8-PFOA	421.0 / 376.0	2.62	242.671975	250.00	97.07
13C9-PFNA	472.0 / 427.0	3.01	254.901628	250.00	101.96
13C6-PFDA	519.0 / 474.0	3.37	245.599742	250.00	98.24
13C7-PFUnA	570.0 / 525.0	3.69	237.665002	250.00	95.07
13C2-PFTeDA	715.0 / 670.0	4.44	229.366050	250.00	91.75
13C3-PFBS	302.0 / 99.0	1.49	235.640319	232.25	101.46
13C3-PFHxS	402.0 / 99.0	2.24	224.931447	236.50	95.11
13C8-PFOS	507.0 / 99.0	3.02	240.211309	239.25	100.40

Sample Name	KF37 ISC	Injection Vial	4
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:42:56	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.05	283.236142	250.00	113.29
13C2-PFDoA	615.0 / 570.0	3.92	246.413486	250.00	98.57
d3-MeFOSAA	573.0 / 419.0	3.47	245.528345	250.00	98.21
d5-EtFOSAA	589.0 / 419.0	3.63	236.419141	250.00	94.57
13C5-PFHxA	318.0 / 273.0	1.78	241.295667	250.00	96.52
13C4-PFHpA	367.0 / 322.0	2.17	239.888769	250.00	95.96
13C8-PFOA	421.0 / 376.0	2.58	269.876256	250.00	107.95
13C9-PFNA	472.0 / 427.0	2.96	278.437648	250.00	111.38
13C6-PFDA	519.0 / 474.0	3.31	250.894788	250.00	100.36
13C7-PFUnA	570.0 / 525.0	3.63	243.452496	250.00	97.38
13C2-PFTeDA	715.0 / 670.0	4.37	213.829826	250.00	85.53
13C3-PFBS	302.0 / 99.0	1.46	186.857644	232.25	80.46
13C3-PFHxS	402.0 / 99.0	2.20	196.290098	236.50	83.00
13C8-PFOS	507.0 / 99.0	2.96	222.962329	239.25	93.19

Sample Name	KF37 CCV	Injection Vial	3
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:29:51	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.05	264.300447	250.00	105.72
13C2-PFDoA	615.0 / 570.0	3.90	224.794680	250.00	89.92
d3-MeFOSAA	573.0 / 419.0	3.46	204.196101	250.00	81.68
d5-EtFOSAA	589.0 / 419.0	3.61	245.409438	250.00	98.16
13C5-PFHxA	318.0 / 273.0	1.77	234.692206	250.00	93.88
13C4-PFHpA	367.0 / 322.0	2.16	239.056595	250.00	95.62
13C8-PFOA	421.0 / 376.0	2.56	268.188513	250.00	107.28
13C9-PFNA	472.0 / 427.0	2.95	271.353507	250.00	108.54
13C6-PFDA	519.0 / 474.0	3.29	244.023164	250.00	97.61
13C7-PFUnA	570.0 / 525.0	3.61	220.085214	250.00	88.03
13C2-PFTeDA	715.0 / 670.0	4.35	196.467681	250.00	78.59
13C3-PFBS	302.0 / 99.0	1.45	187.211890	232.25	80.61
13C3-PFHxS	402.0 / 99.0	2.19	168.814927	236.50	71.38
13C8-PFOS	507.0 / 99.0	2.94	208.397266	239.25	87.10

Sample Name	KF38 CCV	Injection Vial	15
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:40:19	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.05	254.666622	250.00	101.87
13C2-PFDoA	615.0 / 570.0	3.89	239.850814	250.00	95.94
d3-MeFOSAA	573.0 / 419.0	3.45	225.842341	250.00	90.34
d5-EtFOSAA	589.0 / 419.0	3.60	213.433422	250.00	85.37
13C5-PFHxA	318.0 / 273.0	1.76	233.793699	250.00	93.52
13C4-PFHpA	367.0 / 322.0	2.16	240.984694	250.00	96.39
13C8-PFOA	421.0 / 376.0	2.56	262.538103	250.00	105.02
13C9-PFNA	472.0 / 427.0	2.93	286.952054	250.00	114.78
13C6-PFDA	519.0 / 474.0	3.29	253.183915	250.00	101.27
13C7-PFUnA	570.0 / 525.0	3.60	242.125338	250.00	96.85
13C2-PFTeDA	715.0 / 670.0	4.34	202.566822	250.00	81.03
13C3-PFBS	302.0 / 99.0	1.45	196.124049	232.25	84.45
13C3-PFHxS	402.0 / 99.0	2.18	184.976629	236.50	78.21
13C8-PFOS	507.0 / 99.0	2.93	219.671583	239.25	91.82

Sample Name	KF37 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:29:02	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.05	272.528625	250.00	109.01
13C2-PFDoA	615.0 / 570.0	3.87	227.774690	250.00	91.11
d3-MeFOSAA	573.0 / 419.0	3.44	201.162024	250.00	80.46
d5-EtFOSAA	589.0 / 419.0	3.59	236.579524	250.00	94.63
13C5-PFHxA	318.0 / 273.0	1.76	261.959954	250.00	104.78
13C4-PFHpA	367.0 / 322.0	2.15	256.946148	250.00	102.78
13C8-PFOA	421.0 / 376.0	2.55	276.731846	250.00	110.69
13C9-PFNA	472.0 / 427.0	2.93	304.867054	250.00	121.95
13C6-PFDA	519.0 / 474.0	3.28	251.767968	250.00	100.71
13C7-PFUnA	570.0 / 525.0	3.59	223.181497	250.00	89.27
13C2-PFTeDA	715.0 / 670.0	4.33	195.562129	250.00	78.22
13C3-PFBS	302.0 / 99.0	1.45	189.592918	232.25	81.63
13C3-PFHxS	402.0 / 99.0	2.18	195.883135	236.50	82.83
13C8-PFOS	507.0 / 99.0	2.93	224.529745	239.25	93.85

Sample Name	KF38 CCV	Injection Vial	35
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T23:17:39	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Conc. (ng/L)	Target Conc. (ng/L)	Recovery (%)
13C4-PFBA	217.0 / 172.0	1.03	252.419803	250.00	100.97
13C2-PFDoA	615.0 / 570.0	3.87	224.837662	250.00	89.94
d3-MeFOSAA	573.0 / 419.0	3.43	244.382901	250.00	97.75
d5-EtFOSAA	589.0 / 419.0	3.59	215.124789	250.00	86.05
13C5-PFHxA	318.0 / 273.0	1.75	199.799168	250.00	79.92
13C4-PFHpA	367.0 / 322.0	2.14	223.360049	250.00	89.34
13C8-PFOA	421.0 / 376.0	2.54	244.700110	250.00	97.88
13C9-PFNA	472.0 / 427.0	2.93	234.089183	250.00	93.64
13C6-PFDA	519.0 / 474.0	3.27	257.268553	250.00	102.91
13C7-PFUnA	570.0 / 525.0	3.59	236.901327	250.00	94.76
13C2-PFTeDA	715.0 / 670.0	4.33	191.189397	250.00	76.48
13C3-PFBS	302.0 / 99.0	1.44	190.857801	232.25	82.18
13C3-PFHxS	402.0 / 99.0	2.17	195.040315	236.50	82.47
13C8-PFOS	507.0 / 99.0	2.93	245.177814	239.25	102.48



Sample Name	KF42 ICC	Injection Vial	37
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:13:07	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.50	379428.79	974.37	834.9	false	13C3-PFBS	30902.52	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.50	117566.42	984.22	375.9	false	13C3-PFBS	30902.52	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.81	287321.43	970.71	56.3	true	13C5-PFHxA	75863.44	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.80	20294.10	927.88	45.5	false	13C5-PFHxA	75863.44	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.22	268284.13	874.59	82.6	false	13C4-PFHpA	89208.12	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.22	4658.81	723.66	47.5	false	13C4-PFHpA	89208.12	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.24	410721.63	925.38	528.6	false	13C3-PFHxS	28182.48	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.25	105096.50	831.64	264.4	false	13C3-PFHxS	28182.48	236.50	PFHxS	0.260	0.289	ü
PFOA_1	413.0 / 369.0	2.63	356906.11	951.84	167.4	false	13C8-PFOA	86996.82	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.63	23854.11	958.83	95.0	false	13C8-PFOA	86996.82	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	3.02	328299.56	906.26	209.6	false	13C9-PFNA	85824.17	250.00	PFNA			
PFNA_2	463.0 / 219.0	3.02	100959.48	865.31	223.7	false	13C9-PFNA	85824.17	250.00	PFNA	0.310	0.325	ü
PFOS_1	499.0 / 80.0	3.02	535481.12	944.96	249.4	false	13C8-PFOS	28598.35	239.25	PFOS			
PFOS_2	499.0 / 99.0	3.02	100184.35	996.59	262.8	false	13C8-PFOS	28598.35	239.25	PFOS	0.190	0.177	ü
PFDA_1	513.0 / 469.0	3.38	350410.70	930.88	274.0	false	13C6-PFDA	81025.62	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.39	13744.12	900.41	186.2	false	13C6-PFDA	81025.62	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.70	297811.33	930.69	184.4	false	13C7-PFUnA	76089.82	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.71	18512.09	1149.68	156.9	false	13C7-PFUnA	76089.82	250.00	PFUnA	0.060	0.048	ü
PFDoA_1	613.0 / 569.0	3.98	296320.62	989.02	238.7	false	13C2-PFDoA	80121.35	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.98	52179.88	975.94	193.4	false	13C2-PFDoA	80121.35	250.00	PFDoA	0.180	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.23	290778.63	1041.50	266.4	false	13C2-PFTTrDA	81352.27	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.23	19544.94	954.83	216.1	false	13C2-PFTTrDA	81352.27	250.00	PFTTrDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.45	381750.40	1000.98	427.0	false	13C2-PFTeDA	81352.27	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.44	17656.75	944.22	313.5	false	13C2-PFTeDA	81352.27	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.53	87880.08	967.77	102990.7	false	d3-MeFOSAA	20247.04	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.53	44640.22	1000.21	395.2	false	d3-MeFOSAA	20247.04	250.00	NMeFOSAA	0.510	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.69	84391.76	985.68	840.5	false	d5-EtFOSAA	20238.44	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.70	4139.40	780.86	119.0	false	d5-EtFOSAA	20238.44	250.00	NEtFOSAA	0.050	0.063	ü
PFBA	213.0 / 169.0	1.05	505928.46	1105.07	319.8	true	13C4-PFBA	73781.22	250.00				

Sample Name	KF37 ISC	Injection Vial	4
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:42:56	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	380990.66	1113.46	1368.8	false	13C3-PFBS	27172.25	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	115535.99	1104.75	410.3	false	13C3-PFBS	27172.25	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.79	290326.90	1018.49	57.9	true	13C5-PFHxA	73064.85	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.79	22700.79	1072.14	58.5	false	13C5-PFHxA	73064.85	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.18	275940.71	1014.07	82.3	false	13C4-PFHpA	78969.20	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.18	5987.27	1079.63	85.8	false	13C4-PFHpA	78969.20	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.20	432503.78	991.23	364.8	false	13C3-PFHxS	27674.42	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.20	126693.40	1019.49	288.5	false	13C3-PFHxS	27674.42	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.59	381673.48	959.77	94.5	false	13C8-PFOA	92247.62	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.58	24717.00	937.53	80.6	false	13C8-PFOA	92247.62	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.97	372823.85	987.97	213.2	false	13C9-PFNA	89386.46	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.97	127678.33	1051.23	178.9	false	13C9-PFNA	89386.46	250.00	PFNA	0.340	0.325	ü
PFOS_1	499.0 / 80.0	2.96	600275.89	1027.05	188.5	false	13C8-PFOS	29462.23	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.96	107660.67	1039.01	262.1	false	13C8-PFOS	29462.23	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.32	428092.58	1070.25	218.6	false	13C6-PFDA	86042.97	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.32	19053.73	1176.55	219.2	false	13C6-PFDA	86042.97	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.64	369832.70	1084.79	216.7	false	13C7-PFUnA	81022.35	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.64	16918.86	990.01	254.2	false	13C7-PFUnA	81022.35	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.92	327221.98	988.88	262.5	false	13C2-PFDoA	88489.03	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.92	58246.47	986.56	264.4	false	13C2-PFDoA	88489.03	250.00	PFDoA	0.180	0.182	ü
PFTeDA_1	663.0 / 619.0	4.17	299475.36	1107.84	375.3	false	13C2-PFTeDA	78838.46	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.17	18852.94	950.12	293.7	false	13C2-PFTeDA	78838.46	250.00	PFTeDA	0.060	0.071	ü
PFTeDA_1	713.0 / 669.0	4.38	399682.37	1082.58	630.8	false	13C2-PFTeDA	78838.46	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.38	19454.09	1074.85	434.4	false	13C2-PFTeDA	78838.46	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.47	101515.43	1042.32	356.0	false	d3-MeFOSAA	21720.61	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.47	51054.01	1067.38	345.7	false	d3-MeFOSAA	21720.61	250.00	NMeFOSAA	0.500	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.63	93069.43	1007.12	302.1	false	d5-EtFOSAA	21841.48	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.63	5770.00	1009.03	113.5	false	d5-EtFOSAA	21841.48	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.05	694352.92	1258.68	486.8	true	13C4-PFBA	91395.88	250.00				

Sample Name	KF37 CCV	Injection Vial	3
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:29:51	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	339738.51	1063.44	1530.7	false	13C3-PFBS	25364.26	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	101149.83	1033.63	532.1	false	13C3-PFBS	25364.26	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	259258.96	1010.90	69.1	true	13C5-PFHxA	65735.43	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.78	18904.94	994.97	49.7	false	13C5-PFHxA	65735.43	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	257444.84	1026.21	97.0	false	13C4-PFHpA	72793.14	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	5248.57	1023.58	78.6	false	13C4-PFHpA	72793.14	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.19	398786.33	1142.29	306.4	false	13C3-PFHxS	22096.49	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.19	116630.05	1174.44	330.3	false	13C3-PFHxS	22096.49	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.57	358065.28	979.11	123.4	false	13C8-PFOA	84795.45	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	22491.22	928.33	116.8	false	13C8-PFOA	84795.45	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.95	357138.57	1049.73	252.5	false	13C9-PFNA	80578.85	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.95	117978.52	1077.61	250.8	false	13C9-PFNA	80578.85	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	2.94	528820.56	1047.10	178.6	false	13C8-PFOS	25451.50	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	91757.51	1025.25	245.1	false	13C8-PFOS	25451.50	239.25	PFOS	0.170	0.177	ü
PFDA_1	513.0 / 469.0	3.31	374744.91	1019.95	234.1	false	13C6-PFDA	79051.10	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.30	14614.09	981.63	161.4	false	13C6-PFDA	79051.10	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.62	339365.39	1165.41	267.4	false	13C7-PFUnA	69188.60	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.62	16899.18	1154.11	245.0	false	13C7-PFUnA	69188.60	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.90	299515.18	1050.57	250.4	false	13C2-PFDoA	76254.25	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.90	52158.34	1025.81	267.9	false	13C2-PFDoA	76254.25	250.00	PFDoA	0.170	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.15	265089.55	1130.19	362.0	false	13C2-PFTTrDA	68424.88	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.15	17948.05	1047.85	280.3	false	13C2-PFTTrDA	68424.88	250.00	PFTTrDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.36	352093.99	1099.05	504.2	false	13C2-PFTeDA	68424.88	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.35	17701.00	1127.31	454.9	false	13C2-PFTeDA	68424.88	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.45	80000.67	1020.82	340.9	false	d3-MeFOSAA	17476.58	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.46	37777.94	980.32	238.9	false	d3-MeFOSAA	17476.58	250.00	NMeFOSAA	0.470	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.61	82305.68	910.18	302.9	false	d5-EtFOSAA	21386.18	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.60	4760.17	849.91	457278.1	false	d5-EtFOSAA	21386.18	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.04	610817.13	1220.81	477.5	true	13C4-PFBA	82379.00	250.00				



Sample Name	KF38 CCV	Injection Vial	15
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:40:19	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	871834.10	2541.33	2274.9	false	13C3-PFBS	27317.64	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	255318.57	2476.66	894.3	false	13C3-PFBS	27317.64	232.25	PFBS	0.290	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	678128.83	2482.68	94.6	false	13C5-PFHxA	70058.14	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.78	52526.53	2538.85	80.1	false	13C5-PFHxA	70058.14	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	659913.29	2421.10	137.0	false	13C4-PFHpA	78506.23	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	13878.72	2602.97	125.7	false	13C4-PFHpA	78506.23	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.19	1009063.00	2539.52	324.8	false	13C3-PFHxS	24962.30	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.19	282200.89	2508.18	323.5	false	13C3-PFHxS	24962.30	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.57	905234.15	2334.07	183.2	false	13C8-PFOA	88807.51	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.56	57650.39	2236.01	168.8	false	13C8-PFOA	88807.51	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.95	927740.08	2407.77	274.6	false	13C9-PFNA	91163.28	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.95	293007.70	2368.53	317.2	false	13C9-PFNA	91163.28	250.00	PFNA	0.320	0.325	ü
PFOS_1	499.0 / 80.0	2.93	1296903.97	2369.53	259.2	false	13C8-PFOS	27381.43	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	242902.14	2504.04	304.6	false	13C8-PFOS	27381.43	239.25	PFOS	0.190	0.177	ü
PFDA_1	513.0 / 469.0	3.30	916302.71	2388.07	270.4	false	13C6-PFDA	82345.41	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.30	34710.36	2242.77	230.8	false	13C6-PFDA	82345.41	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.61	862424.92	2676.56	284.2	false	13C7-PFUnA	76420.59	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.61	43455.11	2656.47	253.0	false	13C7-PFUnA	76420.59	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.89	787628.22	2583.44	291.0	false	13C2-PFDoA	81685.63	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.89	130215.86	2411.87	270.9	false	13C2-PFDoA	81685.63	250.00	PFDoA	0.170	0.182	ü
PFTeDA_1	663.0 / 619.0	4.14	667455.29	2771.39	333.1	false	13C2-PFTeDA	70830.07	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.13	46095.19	2686.56	300.0	false	13C2-PFTeDA	70830.07	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.35	883873.46	2686.05	514.8	false	13C2-PFTeDA	70830.07	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.35	43327.80	2679.05	457.7	false	13C2-PFTeDA	70830.07	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.44	213051.44	2434.70	372.9	false	d3-MeFOSAA	19547.85	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.44	102964.22	2411.94	387.0	false	d3-MeFOSAA	19547.85	250.00	NMeFOSAA	0.480	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.60	200449.10	2457.15	323.4	false	d5-EtFOSAA	19213.39	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.60	12971.49	2581.16	252.4	true	d5-EtFOSAA	19213.39	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.04	1306927.41	2808.73	546.9	true	13C4-PFBA	86751.91	250.00				

Sample Name	KF37 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:29:02	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	320556.20	1045.98	1732.1	false	13C3-PFBS	24329.56	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	99450.39	1060.49	585.1	false	13C3-PFBS	24329.56	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	248028.62	939.42	63.6	true	13C5-PFHxA	67667.04	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.78	17918.89	918.86	59.7	false	13C5-PFHxA	67667.04	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	247899.46	997.26	85.3	false	13C4-PFHpA	72156.13	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	5168.66	1016.47	70.2	false	13C4-PFHpA	72156.13	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	404769.82	1050.92	328.5	false	13C3-PFHxS	24407.02	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	108432.18	989.54	311.5	false	13C3-PFHxS	24407.02	236.50	PFHxS	0.270	0.289	ü
PFOA_1	413.0 / 369.0	2.56	346538.47	995.42	130.7	false	13C8-PFOA	80692.46	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.56	22578.21	977.94	104.0	false	13C8-PFOA	80692.46	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	2.94	335992.77	953.32	204.5	false	13C9-PFNA	83490.60	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.94	112378.70	990.46	280.5	false	13C9-PFNA	83490.60	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	2.93	507198.50	1005.42	190.8	false	13C8-PFOS	25436.68	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	91612.32	1024.23	225.1	false	13C8-PFOS	25436.68	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.29	364375.71	1002.81	186.2	false	13C6-PFDA	78184.05	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.29	15181.25	1031.22	163.7	false	13C6-PFDA	78184.05	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.60	323503.79	1142.90	262.3	false	13C7-PFUnA	67257.81	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.60	14698.90	1035.07	202.1	false	13C7-PFUnA	67257.81	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.88	309923.09	1119.38	259.4	false	13C2-PFDoA	74066.93	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.88	50416.58	1020.76	294.1	false	13C2-PFDoA	74066.93	250.00	PFDoA	0.160	0.182	ü
PFTeDA_1	663.0 / 619.0	4.13	253661.98	1133.43	335.9	false	13C2-PFTeDA	65290.28	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.12	18112.38	1111.59	277.8	false	13C2-PFTeDA	65290.28	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	330486.22	1080.89	531.0	false	13C2-PFTeDA	65290.28	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.33	16667.25	1112.30	488.2	false	13C2-PFTeDA	65290.28	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.44	81237.00	1117.48	422.5	false	d3-MeFOSAA	16215.86	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.44	41146.30	1153.55	299.8	false	d3-MeFOSAA	16215.86	250.00	NMeFOSAA	0.510	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.59	76040.07	931.93	362.2	false	d5-EtFOSAA	19294.16	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.58	5146.89	1018.91	248.0	false	d5-EtFOSAA	19294.16	250.00	NEtFOSAA	0.070	0.063	ü
PFBA	213.0 / 169.0	1.04	631819.46	1297.83	360.6	true	13C4-PFBA	81149.99	250.00				



Sample Name	KF38 CCV	Injection Vial	35
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T23:17:39	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	866841.08	2683.43	2220.6	false	13C3-PFBS	25725.72	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	264995.51	2733.71	936.5	false	13C3-PFBS	25725.72	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.76	668737.06	2565.54	104.1	false	13C5-PFHxA	66857.40	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.76	51603.27	2612.62	103.1	false	13C5-PFHxA	66857.40	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.15	671449.18	2380.30	165.3	false	13C4-PFHpA	81255.01	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	12118.08	2185.82	83.1	false	13C4-PFHpA	81255.01	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.17	1028416.35	2473.35	272.6	false	13C3-PFHxS	26126.00	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.17	294360.07	2499.74	328.6	false	13C3-PFHxS	26126.00	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.55	922665.66	2286.16	233.8	false	13C8-PFOA	92431.82	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	58675.01	2187.07	219.9	false	13C8-PFOA	92431.82	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.93	922917.92	2629.18	298.5	false	13C9-PFNA	83046.62	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	286327.95	2540.93	276.0	false	13C9-PFNA	83046.62	250.00	PFNA	0.310	0.325	ü
PFOS_1	499.0 / 80.0	2.93	1301915.81	2291.59	293.1	false	13C8-PFOS	28427.64	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	235023.82	2334.53	320.4	false	13C8-PFOS	28427.64	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.29	938296.64	2304.16	245.0	false	13C6-PFDA	87398.61	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.28	36853.70	2243.59	246.4	false	13C6-PFDA	87398.61	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.60	842274.92	2557.97	314.2	false	13C7-PFUnA	78100.20	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.60	39422.25	2360.68	210.6	false	13C7-PFUnA	78100.20	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.88	789234.87	2643.95	296.3	false	13C2-PFDoA	79981.23	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.88	128092.88	2423.18	324.5	false	13C2-PFDoA	79981.23	250.00	PFDoA	0.160	0.182	ü
PFTeDA_1	663.0 / 619.0	4.13	655091.80	2759.03	365.5	false	13C2-PFTeDA	69827.70	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.12	45799.29	2708.09	402.9	false	13C2-PFTeDA	69827.70	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	870189.09	2682.41	504.9	false	13C2-PFTeDA	69827.70	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.33	43898.19	2753.56	541.6	false	13C2-PFTeDA	69827.70	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.44	202912.56	2245.44	426.7	false	d3-MeFOSAA	20184.65	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.44	98598.07	2235.63	364.3	false	d3-MeFOSAA	20184.65	250.00	NMeFOSAA	0.490	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.59	185610.69	2381.89	416.4	false	d5-EtFOSAA	18354.67	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.59	11713.80	2439.86	206.4	false	d5-EtFOSAA	18354.67	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.03	1327225.79	3046.17	488.8	true	13C4-PFBA	81881.77	250.00				

Sample Name	KF42 ICC	Injection Vial	37
Sample ID	ICC	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:13:07	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	73781.22	246.09	1002.7	false	13C3-PFBA	49175.05	250.00				
13C2-PFDoA	615.0 / 570.0	3.98	80121.35	231.93	712.9	false	13C2-PFDA	85799.21	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.53	20359.06	253.40	214.9	false	13C4-PFOS	28010.11	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.69	20402.91	245.49	306.3	false	13C4-PFOS	28010.11	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.79	75863.44	238.88	669.7	false	13C2-PFOA	89619.28	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.21	89208.12	258.38	557.0	false	13C2-PFOA	89619.28	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.62	86996.82	242.67	665.2	false	13C2-PFOA	89619.28	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.01	85824.17	254.90	890.8	false	13C2-PFOA	89619.28	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.37	81025.62	245.60	1315.3	false	13C2-PFDA	85799.21	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	76089.82	237.67	373.7	false	13C2-PFDA	85799.21	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.44	81352.27	229.37	1274.7	false	13C2-PFDA	85799.21	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	30902.52	235.64	291.9	false	13C4-PFOS	28010.11	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.24	28652.76	224.93	308.1	false	13C4-PFOS	28010.11	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.02	27932.26	240.21	194.2	false	13C4-PFOS	28010.11	238.75		N/A	N/A	ü



Sample Name	KF37 ISC	Injection Vial	4
Sample ID	Instrument Sensitivity Check	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:42:56	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	91395.88	283.24	1992.5	false	13C3-PFBA	52926.71	250.00				
13C2-PFDoA	615.0 / 570.0	3.92	88489.03	246.41	375.4	false	13C2-PFDA	89189.26	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.47	21874.16	245.53	340.6	false	13C4-PFOS	31058.84	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.63	21787.50	236.42	245.5	false	13C4-PFOS	31058.84	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.78	73064.85	241.30	424.0	false	13C2-PFOA	85449.25	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.17	78969.20	239.89	384.8	false	13C2-PFOA	85449.25	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.58	92247.62	269.88	480.8	false	13C2-PFOA	85449.25	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.96	89386.46	278.44	462.5	false	13C2-PFOA	85449.25	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.31	86042.97	250.89	354.0	false	13C2-PFDA	89189.26	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.63	81022.35	243.45	308.1	false	13C2-PFDA	89189.26	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.37	78838.46	213.83	543.0	false	13C2-PFDA	89189.26	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.46	27172.25	186.86	221.5	false	13C4-PFOS	31058.84	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.20	27725.86	196.29	319.8	false	13C4-PFOS	31058.84	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.96	28748.46	222.96	292.7	false	13C4-PFOS	31058.84	238.75		N/A	N/A	ü



Sample Name	KF37 CCV	Injection Vial	3
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:29:51	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	82379.00	264.30	2659.7	false	13C3-PFBA	51122.91	250.00				
13C2-PFDoA	615.0 / 570.0	3.90	76254.25	224.79	411.4	false	13C2-PFDA	84249.18	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.46	16949.28	204.20	210.7	false	13C4-PFOS	28937.39	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.61	21071.25	245.41	291.1	false	13C4-PFOS	28937.39	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.77	65735.43	234.69	478.8	false	13C2-PFOA	79040.58	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	72793.14	239.06	373.7	false	13C2-PFOA	79040.58	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	84795.45	268.19	479.7	false	13C2-PFOA	79040.58	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.95	80578.85	271.35	439.0	false	13C2-PFOA	79040.58	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	79051.10	244.02	398.0	false	13C2-PFDA	84249.18	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.61	69188.60	220.09	281.6	false	13C2-PFDA	84249.18	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.35	68424.88	196.47	646.8	false	13C2-PFDA	84249.18	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	25364.26	187.21	314.6	false	13C4-PFOS	28937.39	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	22216.29	168.81	328.4	false	13C4-PFOS	28937.39	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	25035.09	208.40	222.3	false	13C4-PFOS	28937.39	238.75		N/A	N/A	ü



Sample Name	KF38 CCV	Injection Vial	15
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:40:19	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	86751.91	254.67	1657.8	false	13C3-PFBA	55873.26	250.00				
13C2-PFDoA	615.0 / 570.0	3.89	81685.63	239.85	300.5	false	13C2-PFDA	84584.76	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	19272.27	225.84	242.3	false	13C4-PFOS	29749.72	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	18840.18	213.43	290.5	false	13C4-PFOS	29749.72	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	70058.14	233.79	344.8	false	13C2-PFOA	84561.97	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	78506.23	240.98	320.6	false	13C2-PFOA	84561.97	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	88807.51	262.54	397.9	false	13C2-PFOA	84561.97	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	91163.28	286.95	372.9	false	13C2-PFOA	84561.97	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	82345.41	253.18	317.1	false	13C2-PFDA	84584.76	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	76420.59	242.13	268.5	false	13C2-PFDA	84584.76	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	70830.07	202.57	644.7	false	13C2-PFDA	84584.76	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	27317.64	196.12	282.1	false	13C4-PFOS	29749.72	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	25026.56	184.98	280.0	false	13C4-PFOS	29749.72	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	27130.30	219.67	298.2	false	13C4-PFOS	29749.72	238.75		N/A	N/A	ü



Sample Name	KF37 CCV	Injection Vial	25
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:29:02	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	81149.99	272.53	1727.5	false	13C3-PFBA	48839.73	250.00				
13C2-PFDoA	615.0 / 570.0	3.87	74066.93	227.77	361.3	false	13C2-PFDA	80761.89	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	15815.15	201.16	161.7	false	13C4-PFOS	27408.34	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	19239.75	236.58	301.6	false	13C4-PFOS	27408.34	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	67667.04	261.96	351.6	false	13C2-PFOA	72893.96	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.15	72156.13	256.95	402.4	false	13C2-PFOA	72893.96	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	80692.46	276.73	471.3	false	13C2-PFOA	72893.96	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	83490.60	304.87	340.9	false	13C2-PFOA	72893.96	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	78184.05	251.77	349.8	false	13C2-PFDA	80761.89	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	67257.81	223.18	318.2	false	13C2-PFDA	80761.89	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	65290.28	195.56	607.7	false	13C2-PFDA	80761.89	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	24329.56	189.59	320.2	false	13C4-PFOS	27408.34	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	24416.37	195.88	340.3	false	13C4-PFOS	27408.34	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	25547.86	224.53	233.4	false	13C4-PFOS	27408.34	238.75		N/A	N/A	ü



Sample Name	KF38 CCV	Injection Vial	35
Sample ID	CCV	Injection Volume	10.00
Sample Type	Quality Control	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T23:17:39	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.03	81881.77	252.42	844.8	false	13C3-PFBA	53206.02	250.00				
13C2-PFDoA	615.0 / 570.0	3.87	79981.23	224.84	371.6	false	13C2-PFDA	88350.02	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.43	20181.04	244.38	203.0	false	13C4-PFOS	28789.10	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	18376.31	215.12	239.9	false	13C4-PFOS	28789.10	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.75	66857.40	199.80	391.7	false	13C2-PFOA	94428.93	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.14	81255.01	223.36	546.7	false	13C2-PFOA	94428.93	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.54	92431.82	244.70	502.8	false	13C2-PFOA	94428.93	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	83046.62	234.09	420.6	false	13C2-PFOA	94428.93	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.27	87398.61	257.27	325.1	false	13C2-PFDA	88350.02	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	78100.20	236.90	442.2	false	13C2-PFDA	88350.02	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	69827.70	191.19	593.5	false	13C2-PFDA	88350.02	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.44	25725.72	190.86	284.5	false	13C4-PFOS	28789.10	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.17	25536.06	195.04	302.0	false	13C4-PFOS	28789.10	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	29302.67	245.18	348.6	false	13C4-PFOS	28789.10	238.75		N/A	N/A	ü

Sample Name	KF41 IB	Injection Vial	36
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:02:16	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.53	6578.48	13.20	98.5	true	13C3-PFBS	28201.38	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.48	5054.08	7.94	63.3	false	13C3-PFBS	28201.38	232.25	PFBS	0.770	0.322	
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	75172.70	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	75172.70	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	83897.25	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	83897.25	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	2.26	7563.19	35.47	36.1	true	13C3-PFHxS	23477.13	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.31	2762.72	32.42	18.7	true	13C3-PFHxS	23477.13	236.50	PFHxS	0.370	0.289	ü
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true	13C8-PFOA	88481.27	250.00	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true	13C8-PFOA	88481.27	250.00	PFOA	N/A	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	87284.73	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	87284.73	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	23553.26	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	23553.26	239.25	PFOS	N/A	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	81972.81	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	81972.81	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	75436.63	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	75436.63	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	72469.08	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	72469.08	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	4.24	4357.56	0.57	34.7	true	13C2-PFTeDA	79620.72	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	4.20	438.11	< 0	13.8	true	13C2-PFTeDA	79620.72	250.00	PFTrDA	0.100	0.071	ü
PFTeDA_1	713.0 / 669.0	4.45	6711.12	3.67	73.8	true	13C2-PFTeDA	79620.72	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.46	322.47	8.00	15.8	true	13C2-PFTeDA	79620.72	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.52	2088.71	22.16	134.5	false	d3-MeFOSAA	18549.02	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.60	982.52	8.29	26.9	false	d3-MeFOSAA	18549.02	250.00	NMeFOSAA	0.470	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.70	2617.12	38.34	137.9	false	d5-EtFOSAA	18992.82	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	18992.82	250.00	NEtFOSAA	N/A	0.063	
PFBA	213.0 / 169.0	0.98	65445.91	< 0	66.9	true	13C4-PFBA	68596.10	250.00				



Sample Name	KF41 IB	Injection Vial	5
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:53:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFBS	27181.22	232.25	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFBS	27181.22	232.25	PFBS	N/A	0.322	ü
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	70330.79	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	70330.79	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	81973.35	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	81973.35	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	25284.33	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	25284.33	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	N/A	N/A	N/A	N/A	true	13C8-PFOA	90416.91	250.00	PFOA			
PFOA_2	413.0 / 169.0	N/A	N/A	N/A	N/A	true	13C8-PFOA	90416.91	250.00	PFOA	N/A	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	92132.73	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	92132.73	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	27896.92	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	27896.92	239.25	PFOS	N/A	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	89164.97	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	89164.97	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	78295.31	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	78295.31	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	80608.49	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	80608.49	250.00	PFDaA	N/A	0.182	ü
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	71199.16	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	71199.16	250.00	PFTTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	71199.16	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	71199.16	250.00	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	21046.38	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	21046.38	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	21440.06	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	21440.06	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFBA	87329.84	250.00				

Sample Name	CS469PB-FS(0)	Injection Vial	5
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:51:36	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	6417.19	14.52	186.3	true	13C3-PFBS	25690.31	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.45	2789.17	< 0	41.3	true	13C3-PFBS	25690.31	232.25	PFBS	0.430	0.322	ü
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	72435.23	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	72435.23	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	79046.71	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	79046.71	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	27164.12	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	27164.12	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.56	140166.19	392.00	71.1	true	13C8-PFOA	85693.51	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	9745.90	412.27	61.9	false	13C8-PFOA	85693.51	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	93202.93	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	93202.93	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	28791.00	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	28791.00	239.25	PFOS	N/A	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	85772.45	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	85772.45	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	79001.35	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	79001.35	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	77923.16	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	77923.16	250.00	PFDaA	N/A	0.182	ü
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	74921.70	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	74921.70	250.00	PFTTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	74921.70	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	74921.70	250.00	PFTeDA	N/A	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	19558.38	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	19558.38	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	19002.67	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	19002.67	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.99	105765.50	< 0	144.9	true	13C4-PFBA	84304.35	250.00				

Sample Name	CS470LCS-FS(0)	Injection Vial	6
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:02:28	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	741878.47	2460.22	2308.6	false	13C3-PFBS	24010.37	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	225241.20	2486.01	549.9	false	13C3-PFBS	24010.37	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	628695.04	2643.86	101.5	false	13C5-PFHxA	60993.14	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	51352.66	2846.80	95.3	false	13C5-PFHxA	60993.14	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	554330.60	2490.37	144.8	false	13C4-PFHpA	64101.48	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	10687.17	2451.15	118.6	false	13C4-PFHpA	64101.48	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	820846.38	2248.01	367.5	false	13C3-PFHxS	22957.47	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	228476.36	2208.78	334.3	false	13C3-PFHxS	22957.47	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.56	841607.59	2623.23	203.3	false	13C8-PFOA	73391.33	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.56	57316.86	2684.98	186.1	false	13C8-PFOA	73391.33	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	2.94	704765.35	2220.96	331.5	false	13C9-PFNA	75083.34	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.94	233765.28	2294.25	322.8	false	13C9-PFNA	75083.34	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	2.94	1140457.20	2449.64	220.1	false	13C8-PFOS	23286.59	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	204591.37	2480.10	328.2	false	13C8-PFOS	23286.59	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.30	771600.64	2343.02	288.3	false	13C6-PFDA	70677.36	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.30	26306.20	1979.94	217.1	false	13C6-PFDA	70677.36	250.00	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	3.61	697671.07	2668.74	330.4	false	13C7-PFUnA	62003.00	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.61	34795.41	2622.00	240.4	false	13C7-PFUnA	62003.00	250.00	PFUnA	0.050	0.048	ü
PFDoA_1	613.0 / 569.0	3.89	647585.62	2615.67	324.0	false	13C2-PFDoA	66335.09	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.89	112695.67	2571.44	354.1	false	13C2-PFDoA	66335.09	250.00	PFDoA	0.170	0.182	ü
PFTeDA_1	663.0 / 619.0	4.13	560732.30	2501.96	359.0	false	13C2-PFTeDA	65872.76	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	4.13	37311.20	2330.66	334.0	false	13C2-PFTeDA	65872.76	250.00	PFTeDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	778345.70	2542.59	572.4	false	13C2-PFTeDA	65872.76	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.34	38204.29	2539.52	533.8	false	13C2-PFTeDA	65872.76	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.44	178152.94	2424.55	374.8	false	d3-MeFOSAA	16414.17	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.44	86795.95	2421.43	340.7	false	d3-MeFOSAA	16414.17	250.00	NMeFOSAA	0.490	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.60	159978.86	2349.94	334.7	false	d5-EtFOSAA	16035.65	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.60	9942.82	2370.44	1577.7	false	d5-EtFOSAA	16035.65	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.03	1019330.86	2781.60	647.9	true	13C4-PFBA	68253.89	250.00				

Sample Name	J9989-FS(0)	Injection Vial	7
Sample ID	NASB-CW-GW-FB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:13:20	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.48	2133.53	1.57	59.6	true	13C3-PFBS	24370.94	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.44	2332.69	< 0	38.7	true	13C3-PFBS	24370.94	232.25	PFBS	1.090	0.322	
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	58361.65	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	58361.65	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	69618.55	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	69618.55	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23905.32	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23905.32	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.57	107969.43	328.64	55.3	true	13C8-PFOA	79597.48	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.56	8013.27	367.79	46.7	true	13C8-PFOA	79597.48	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	80193.98	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	80193.98	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	2.96	6222.08	25.46	20.9	true	13C8-PFOS	26141.19	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	26141.19	239.25	PFOS	N/A	0.177	
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	79873.75	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	79873.75	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	66437.65	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	66437.65	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	72580.64	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	72580.64	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	63821.12	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	63821.12	250.00	PFTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1453.30	< 0	32.3	false	13C2-PFTeDA	63821.12	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.35	81.29	< 0	9.9	false	13C2-PFTeDA	63821.12	250.00	PFTeDA	0.060	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	18815.39	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	18815.39	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17582.29	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	false	d5-EtFOSAA	17582.29	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.98	102395.62	< 0	119.6	true	13C4-PFBA	75329.56	250.00				

Sample Name	J9999-FS(0)	Injection Vial	8
Sample ID	NASB-09-GW-FB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:24:12	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.48	1989.56	1.04	49.9	true	13C3-PFBS	24603.71	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	1264.09	< 0	26.4	true	13C3-PFBS	24603.71	232.25	PFBS	0.640	0.322	
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	64148.39	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	64148.39	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	75665.93	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	75665.93	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23952.61	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23952.61	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.56	119302.36	358.77	70.8	true	13C8-PFOA	80110.13	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	6293.44	292.48	46.4	true	13C8-PFOA	80110.13	250.00	PFOA	0.050	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	86486.40	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	86486.40	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	24124.04	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	24124.04	239.25	PFOS	N/A	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	83908.62	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	83908.62	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	70195.47	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	70195.47	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	75943.82	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	75943.82	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	71860.09	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	71860.09	250.00	PFTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1477.85	< 0	31.6	false	13C2-PFTeDA	71860.09	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.33	49.02	< 0	8.1	true	13C2-PFTeDA	71860.09	250.00	PFTeDA	0.030	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	17996.29	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	17996.29	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17385.14	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17385.14	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.98	115693.76	< 0	118.7	true	13C4-PFBA	77807.91	250.00				

Sample Name	J9992-FS(0)	Injection Vial	9
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:35:04	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFBS	30217.88	232.25	PFBS			
PFBS_2	298.9 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFBS	30217.88	232.25	PFBS	N/A	0.322	ü
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	55950.10	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	false	13C5-PFHxA	55950.10	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	72330.00	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	72330.00	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	2.19	35492.20	125.34	88.3	false	13C3-PFHxS	20149.58	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.19	11948.80	137.61	71.3	false	13C3-PFHxS	20149.58	236.50	PFHxS	0.340	0.289	ü
PFOA_1	413.0 / 369.0	2.57	110603.11	399.70	54.1	true	13C8-PFOA	66245.72	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	6156.45	341.43	42.0	true	13C8-PFOA	66245.72	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	70805.98	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	70805.98	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	2.86	41236.85	94.64	54.0	false	13C8-PFOS	25317.44	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.90	6394.00	83.74	26.7	true	13C8-PFOS	25317.44	239.25	PFOS	0.160	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	65043.54	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	65043.54	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	64129.99	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	64129.99	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	68824.00	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	68824.00	250.00	PFDaA	N/A	0.182	ü
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	67978.87	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	67978.87	250.00	PFTeDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	2199.59	< 0	47.3	false	13C2-PFTeDA	67978.87	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	67978.87	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	11767.34	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	11767.34	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14905.26	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14905.26	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.96	85846.89	53.61	91.9	true	13C4-PFBA	47923.27	250.00				



Sample Name	J9992MS-FS(0)	Injection Vial	10
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:45:55	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	2606778.05	6964.36	589.4	false	13C3-PFBS	29845.54	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	806598.05	7237.79	428.5	false	13C3-PFBS	29845.54	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	1901368.32	7876.09	129.3	false	13C5-PFHxA	61938.53	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	147743.40	8002.52	159.9	false	13C5-PFHxA	61938.53	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	1766144.22	7213.77	256.4	false	13C4-PFHpA	70263.58	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	32958.01	7012.70	178.8	false	13C4-PFHpA	70263.58	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	2755415.76	7203.41	348.9	true	13C3-PFHxS	23936.51	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	779101.43	7209.37	340.8	false	13C3-PFHxS	23936.51	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.57	2252417.00	7597.50	249.3	false	13C8-PFOA	67465.65	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.56	143692.88	7279.46	252.9	false	13C8-PFOA	67465.65	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.95	1976984.38	7268.09	284.4	false	13C9-PFNA	64321.74	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.95	643436.79	7376.91	299.2	false	13C9-PFNA	64321.74	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	2.94	3327396.40	7550.75	221.2	false	13C8-PFOS	21958.64	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	595791.05	7632.30	285.9	false	13C8-PFOS	21958.64	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.30	2250178.63	7583.21	318.0	false	13C6-PFDA	63598.74	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.30	89672.91	7510.35	314.8	false	13C6-PFDA	63598.74	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.61	1993528.21	7756.78	337.0	false	13C7-PFUnA	60899.59	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.62	97085.54	7406.29	322.5	false	13C7-PFUnA	60899.59	250.00	PFUnA	0.050	0.048	ü
PFDaA_1	613.0 / 569.0	3.89	1939675.67	7737.63	353.8	false	13C2-PFDaA	67218.48	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.90	320966.83	7256.24	313.0	false	13C2-PFDaA	67218.48	250.00	PFDaA	0.170	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.14	1784823.93	7830.97	345.7	false	13C2-PFTTrDA	67274.15	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.14	122088.08	7596.57	327.6	false	13C2-PFTTrDA	67274.15	250.00	PFTTrDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.35	2451450.70	7871.61	564.8	false	13C2-PFTeDA	67274.15	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.34	119494.68	7797.83	567.9	false	13C2-PFTeDA	67274.15	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.45	462976.04	6562.05	313.0	false	d3-MeFOSAA	15773.16	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.44	239244.69	6975.80	274.1	false	d3-MeFOSAA	15773.16	250.00	NMeFOSAA	0.520	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.60	442741.14	7644.63	287.0	false	d5-EtFOSAA	13617.84	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.61	30989.56	8704.13	322.2	false	d5-EtFOSAA	13617.84	250.00	NEtFOSAA	0.070	0.063	ü
PFBA	213.0 / 169.0	1.04	1908051.98	7828.83	655.4	true	13C4-PFBA	48611.25	250.00				

Sample Name	J9992MSD-FS(0)	Injection Vial	11
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:56:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	2713183.57	7166.67	604.1	false	13C3-PFBS	30187.58	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	822601.69	7298.09	427.3	false	13C3-PFBS	30187.58	232.25	PFBS	0.300	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	1881175.91	7890.77	142.2	true	13C5-PFHxA	61166.73	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.78	152143.10	8343.35	165.3	false	13C5-PFHxA	61166.73	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.18	1800750.86	7113.31	234.8	false	13C4-PFHpA	72654.07	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	34255.62	7049.31	218.4	false	13C4-PFHpA	72654.07	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.19	2792427.37	8386.96	335.1	false	13C3-PFHxS	20828.50	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.19	793356.79	8435.65	347.5	false	13C3-PFHxS	20828.50	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.57	2234421.80	7537.90	248.5	false	13C8-PFOA	67457.27	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	138003.67	6993.09	227.9	false	13C8-PFOA	67457.27	250.00	PFOA	0.060	0.066	ü
PFNA_1	463.0 / 419.0	2.95	1947323.58	6644.78	309.8	false	13C9-PFNA	69301.61	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.95	637765.13	6786.27	299.7	false	13C9-PFNA	69301.61	250.00	PFNA	0.330	0.325	ü
PFOS_1	499.0 / 80.0	2.94	3399150.96	8257.30	255.4	false	13C8-PFOS	20509.56	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	600562.03	8235.97	290.4	false	13C8-PFOS	20509.56	239.25	PFOS	0.180	0.177	ü
PFDA_1	513.0 / 469.0	3.30	2231980.73	7289.17	272.7	false	13C6-PFDA	65630.76	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.30	86087.76	6986.60	266.5	false	13C6-PFDA	65630.76	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.62	1968022.59	7888.53	336.4	false	13C7-PFUnA	59115.87	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.62	96976.58	7620.53	374.9	false	13C7-PFUnA	59115.87	250.00	PFUnA	0.050	0.048	ü
PFDaA_1	613.0 / 569.0	3.90	1906780.60	7734.91	341.5	false	13C2-PFDaA	66101.70	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.90	320043.37	7357.83	342.6	false	13C2-PFDaA	66101.70	250.00	PFDaA	0.170	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.14	1712016.72	7658.40	344.9	false	13C2-PFTTrDA	65981.00	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	4.14	117568.78	7457.68	300.9	false	13C2-PFTTrDA	65981.00	250.00	PFTTrDA	0.070	0.071	ü
PFTeDA_1	713.0 / 669.0	4.35	2360203.46	7726.87	653.8	false	13C2-PFTeDA	65981.00	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.35	114339.91	7607.44	525.9	false	13C2-PFTeDA	65981.00	250.00	PFTeDA	0.050	0.049	ü
NMeFOSAA_1	570.0 / 419.0	3.45	457375.42	7455.61	256.7	false	d3-MeFOSAA	13715.56	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	3.45	218914.59	7341.45	272.4	false	d3-MeFOSAA	13715.56	250.00	NMeFOSAA	0.480	0.505	ü
NEtFOSAA_1	584.0 / 419.0	3.60	415431.92	7314.38	334.9	false	d5-EtFOSAA	13355.28	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	3.60	24793.82	7100.53	217.5	false	d5-EtFOSAA	13355.28	250.00	NEtFOSAA	0.060	0.063	ü
PFBA	213.0 / 169.0	1.05	1937711.99	7778.69	688.1	true	13C4-PFBA	49672.57	250.00				

Sample Name	J9993-FS(0)	Injection Vial	12
Sample ID	NASB-CW-GW02-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:07:41	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	12468.03	31.24	54.1	true	13C3-PFBS	27139.87	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	5734.19	16.58	43.0	false	13C3-PFBS	27139.87	232.25	PFBS	0.460	0.322	ü
PFHxA_1	313.0 / 269.0	1.78	64442.43	274.04	16.6	true	13C5-PFHxA	60091.19	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.78	4936.72	308.70	17.7	false	13C5-PFHxA	60091.19	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.18	19116.70	103.28	11.4	true	13C4-PFHpA	60701.21	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	608.82	87.05	19.9	true	13C4-PFHpA	60701.21	250.00	PFHpA	0.030	0.021	ü
PFHxS_1	399.0 / 80.0	2.19	27725.93	103.14	62.4	false	13C3-PFHxS	19721.66	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	7647.09	92.19	43.8	false	13C3-PFHxS	19721.66	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.57	178972.47	664.80	66.4	false	13C8-PFOA	63069.17	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	13039.33	729.09	56.9	false	13C8-PFOA	63069.17	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	2.95	17132.92	62.92	34.2	true	13C9-PFNA	66427.10	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	3735.59	39.02	31.7	true	13C9-PFNA	66427.10	250.00	PFNA	0.220	0.325	ü
PFOS_1	499.0 / 80.0	2.93	63686.06	171.62	65.2	false	13C8-PFOS	20048.42	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	12376.82	186.18	70.1	false	13C8-PFOS	20048.42	239.25	PFOS	0.190	0.177	ü
PFDA_1	513.0 / 469.0	3.29	7200.11	28.59	19.3	true	13C6-PFDA	64052.24	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.26	222.72	14.98	11.5	true	13C6-PFDA	64052.24	250.00	PFDA	0.030	0.041	ü
PFUnA_1	563.0 / 519.0	3.63	5524.78	24.56	22.9	true	13C7-PFUnA	62686.25	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	62686.25	250.00	PFUnA	N/A	0.048	
PFDaA_1	613.0 / 569.0	3.90	5797.69	18.31	33.5	true	13C2-PFDaA	72726.81	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.88	1478.72	15.05	31.7	false	13C2-PFDaA	72726.81	250.00	PFDaA	0.260	0.182	ü
PFTrDA_1	663.0 / 619.0	4.14	5491.20	15.55	67.6	false	13C2-PFTeDA	52102.97	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	52102.97	250.00	PFTrDA	N/A	0.071	
PFTeDA_1	713.0 / 669.0	4.34	9254.72	23.87	113.6	false	13C2-PFTeDA	52102.97	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.34	277.35	13.59	30.2	false	13C2-PFTeDA	52102.97	250.00	PFTeDA	0.030	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	15858.34	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	15858.34	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17461.97	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17461.97	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.97	190577.60	381.71	111.4	true	13C4-PFBA	56516.12	250.00				

Sample Name	J9994-FS(0)	Injection Vial	13
Sample ID	MW-09-204-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:18:33	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	62958.32	198.40	123.9	false	13C3-PFBS	24650.25	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.47	17668.44	152.71	100.7	false	13C3-PFBS	24650.25	232.25	PFBS	0.280	0.322	ü
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	50819.15	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	50819.15	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	59205.56	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	59205.56	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	466438.41	1359.01	298.8	false	13C3-PFHxS	21676.55	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	132994.10	1364.14	292.7	false	13C3-PFHxS	21676.55	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.56	138537.49	514.35	57.8	false	13C8-PFOA	63702.39	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	11697.53	650.35	47.8	false	13C8-PFOA	63702.39	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	67649.98	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	67649.98	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	2.80	98112.15	236.49	132.5	true	13C8-PFOS	21896.83	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.80	6534.07	96.62	32.6	false	13C8-PFOS	21896.83	239.25	PFOS	0.070	0.177	
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	59349.72	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	59349.72	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	3.61	4812.11	24.77	27.3	true	13C7-PFUnA	54074.75	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	54074.75	250.00	PFUnA	N/A	0.048	
PFDoA_1	613.0 / 569.0	3.90	7162.14	28.31	60.8	false	13C2-PFDoA	61213.44	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	3.90	1276.59	15.85	34.8	false	13C2-PFDoA	61213.44	250.00	PFDoA	0.180	0.182	ü
PFTeDA_1	663.0 / 619.0	4.13	7078.98	19.02	69.1	false	13C2-PFTeDA	60445.25	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	60445.25	250.00	PFTeDA	N/A	0.071	
PFTeDA_1	713.0 / 669.0	4.34	9945.78	21.04	132.6	false	13C2-PFTeDA	60445.25	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.33	260.28	9.12	25.4	false	13C2-PFTeDA	60445.25	250.00	PFTeDA	0.030	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12505.27	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12505.27	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	11101.17	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	11101.17	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.97	88478.06	118.29	91.3	true	13C4-PFBA	42073.38	250.00				

Sample Name	J9996-FS(0)	Injection Vial	14
Sample ID	MW-09-22-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:29:26	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	223951.46	564.34	193.6	false	13C3-PFBS	31366.07	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	58969.00	465.97	183.7	false	13C3-PFBS	31366.07	232.25	PFBS	0.260	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	171462.96	801.66	29.5	true	13C5-PFHxA	54805.93	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	15334.76	968.94	38.3	false	13C5-PFHxA	54805.93	250.00	PFHxA	0.090	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	161604.03	727.61	63.2	true	13C4-PFHpA	64789.07	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	3592.83	772.40	52.4	false	13C4-PFHpA	64789.07	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	702307.54	1614.44	324.5	false	13C3-PFHxS	27424.53	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	198809.13	1610.65	297.7	false	13C3-PFHxS	27424.53	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.56	994191.44	3184.89	164.6	true	13C8-PFOA	71307.49	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	75449.78	3628.87	151.5	false	13C8-PFOA	71307.49	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	2.94	23047.51	80.43	43.5	true	13C9-PFNA	69418.05	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	7866.91	81.13	53.2	true	13C9-PFNA	69418.05	250.00	PFNA	0.340	0.325	ü
PFOS_1	499.0 / 80.0	2.86	245883.20	486.66	115.0	true	13C8-PFOS	25854.29	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.92	29588.29	334.20	100.4	false	13C8-PFOS	25854.29	239.25	PFOS	0.120	0.177	ü
PFDA_1	513.0 / 469.0	3.30	7128.24	26.78	18.1	true	13C6-PFDA	68564.71	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.26	315.42	20.97	14.9	true	13C6-PFDA	68564.71	250.00	PFDA	0.040	0.041	ü
PFUnA_1	563.0 / 519.0	3.62	4120.04	20.71	36.4	true	13C7-PFUnA	57335.90	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	3.68	226.27	41.16	10.0	true	13C7-PFUnA	57335.90	250.00	PFUnA	0.050	0.048	ü
PFDaA_1	613.0 / 569.0	3.90	2684.35	10.87	21.2	true	13C2-PFDaA	51624.97	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	3.89	404.97	< 0	14.7	true	13C2-PFDaA	51624.97	250.00	PFDaA	0.150	0.182	ü
PFTTrDA_1	663.0 / 619.0	4.14	2232.67	< 0	37.0	false	13C2-PFTTrDA	51286.16	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	51286.16	250.00	PFTTrDA	N/A	0.071	
PFTeDA_1	713.0 / 669.0	4.33	3537.72	0.36	70.7	false	13C2-PFTeDA	51286.16	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	4.35	143.62	2.51	23.7	false	13C2-PFTeDA	51286.16	250.00	PFTeDA	0.040	0.049	ü
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	13922.79	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	13922.79	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13512.35	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13512.35	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.98	139454.34	134.07	121.8	true	13C4-PFBA	63999.60	250.00				

Sample Name	J9987-FS(0)	Injection Vial	17
Sample ID	NASB-CW-GW04-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:02:03	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.47	38804.29	95.91	52.0	false	13C3-PFBS	30560.98	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	10687.85	53.86	72.9	false	13C3-PFBS	30560.98	232.25	PFBS	0.280	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	52340.51	212.95	14.2	true	13C5-PFHxA	62732.84	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	3139.48	201.44	15.0	false	13C5-PFHxA	62732.84	250.00	PFHxA	0.060	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	28899.11	117.30	16.8	true	13C4-PFHpA	79424.60	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	438.13	18.96	10.4	true	13C4-PFHpA	79424.60	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	119473.68	301.16	155.7	false	13C3-PFHxS	26102.68	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	32755.47	284.08	169.4	false	13C3-PFHxS	26102.68	236.50	PFHxS	0.270	0.289	ü
PFOA_1	413.0 / 369.0	2.56	229004.26	682.28	76.9	false	13C8-PFOA	78567.60	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.54	20894.77	930.74	62.8	false	13C8-PFOA	78567.60	250.00	PFOA	0.090	0.066	ü
PFNA_1	463.0 / 419.0	2.94	6793.78	23.69	21.7	true	13C9-PFNA	73857.41	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.92	1726.76	14.78	26.5	true	13C9-PFNA	73857.41	250.00	PFNA	0.250	0.325	ü
PFOS_1	499.0 / 80.0	2.85	33997.74	80.01	30.6	false	13C8-PFOS	25470.77	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.95	3774.67	54.43	23.5	false	13C8-PFOS	25470.77	239.25	PFOS	0.110	0.177	ü
PFDA_1	513.0 / 469.0	3.27	4019.30	15.73	14.0	true	13C6-PFDA	76732.21	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	76732.21	250.00	PFDA	N/A	0.041	
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	69959.69	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	69959.69	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	72245.70	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	72245.70	250.00	PFDoA	N/A	0.182	ü
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	65868.47	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	65868.47	250.00	PFTeDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1916.87	< 0	41.4	false	13C2-PFTeDA	65868.47	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	65868.47	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	15501.70	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	15501.70	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	16737.19	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	16737.19	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	1.04	1331779.55	4872.09	432.5	true	13C4-PFBA	53258.24	250.00				

Sample Name	J9988-FS(0)	Injection Vial	19
Sample ID	NASB-CW-DUP-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:23:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.48	36547.96	100.58	44.9	false	13C3-PFBS	27515.57	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	8530.99	43.17	74.9	true	13C3-PFBS	27515.57	232.25	PFBS	0.230	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	50903.41	238.52	13.5	true	13C5-PFHxA	54500.85	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	2646.35	196.46	14.4	false	13C5-PFHxA	54500.85	250.00	PFHxA	0.050	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	28711.78	143.41	16.0	true	13C4-PFHpA	63099.77	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.15	305.00	8.66	7.4	true	13C4-PFHpA	63099.77	250.00	PFHpA	0.010	0.021	
PFHxS_1	399.0 / 80.0	2.19	113028.27	318.55	143.2	false	13C3-PFHxS	23278.03	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	33411.54	324.02	144.0	false	13C3-PFHxS	23278.03	236.50	PFHxS	0.300	0.289	ü
PFOA_1	413.0 / 369.0	2.56	177696.89	680.48	63.0	false	13C8-PFOA	61130.78	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	17687.10	1010.39	62.5	false	13C8-PFOA	61130.78	250.00	PFOA	0.100	0.066	
PFNA_1	463.0 / 419.0	2.94	7163.44	29.97	19.4	true	13C9-PFNA	60427.65	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.92	1030.46	10.11	10.3	true	13C9-PFNA	60427.65	250.00	PFNA	0.140	0.325	
PFOS_1	499.0 / 80.0	2.88	36474.73	118.48	44.3	false	13C8-PFOS	17302.29	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.94	3856.44	75.41	21.3	true	13C8-PFOS	17302.29	239.25	PFOS	0.110	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	60829.76	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	60829.76	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	60505.55	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	60505.55	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	64176.91	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	64176.91	250.00	PFDoA	N/A	0.182	ü
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	66300.10	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	66300.10	250.00	PFTTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	1882.18	< 0	46.1	false	13C2-PFTeDA	66300.10	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	66300.10	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12811.95	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12811.95	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14279.54	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14279.54	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.98	182201.29	433.03	118.1	true	13C4-PFBA	50341.28	250.00				

Sample Name	J9990-FS(0)	Injection Vial	21
Sample ID	NASB-CW-GW-RB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:45:32	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.45	1783.89	< 0	47.1	true	13C3-PFBS	28608.40	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.48	1692.94	< 0	32.9	true	13C3-PFBS	28608.40	232.25	PFBS	0.950	0.322	
PFHxA_1	313.0 / 269.0	1.77	17010.84	97.17	9.1	true	13C5-PFHxA	44395.49	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	1099.73	117.01	10.9	false	13C5-PFHxA	44395.49	250.00	PFHxA	0.060	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	52977.63	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	52977.63	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23848.83	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	23848.83	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.56	94035.99	334.07	53.0	true	13C8-PFOA	68122.56	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	6697.03	359.74	37.7	true	13C8-PFOA	68122.56	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	77510.83	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	77510.83	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	2.91	11567.73	34.93	31.6	true	13C8-PFOS	26996.76	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.90	1719.64	30.70	15.6	true	13C8-PFOS	26996.76	239.25	PFOS	0.150	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	72763.48	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	72763.48	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	71212.56	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	71212.56	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	74675.49	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	74675.49	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	74046.27	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	74046.27	250.00	PFTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	1999.29	< 0	56.1	false	13C2-PFTeDA	74046.27	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	74046.27	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	17629.39	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	17629.39	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17174.02	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	17174.02	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.98	125115.06	239.87	120.4	true	13C4-PFBA	46533.32	250.00				

Sample Name	J9991-FS(0)	Injection Vial	23
Sample ID	NASB-CW-GW01S-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:07:18	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.45	2028.51	0.18	20.2	true	13C3-PFBS	28919.64	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.45	3752.81	< 0	42.6	true	13C3-PFBS	28919.64	232.25	PFBS	1.850	0.322	
PFHxA_1	313.0 / 269.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	60160.45	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	N/A	N/A	N/A	N/A	true	13C5-PFHxA	60160.45	250.00	PFHxA	N/A	0.070	ü
PFHpA_1	363.0 / 319.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	64603.46	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFHpA	64603.46	250.00	PFHpA	N/A	0.021	ü
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	24539.94	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	24539.94	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.57	108219.94	378.03	56.1	true	13C8-PFOA	68751.38	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.57	7155.92	379.41	48.3	true	13C8-PFOA	68751.38	250.00	PFOA	0.070	0.066	ü
PFNA_1	463.0 / 419.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	72249.73	250.00	PFNA			
PFNA_2	463.0 / 219.0	N/A	N/A	N/A	N/A	true	13C9-PFNA	72249.73	250.00	PFNA	N/A	0.325	ü
PFOS_1	499.0 / 80.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	27162.61	239.25	PFOS			
PFOS_2	499.0 / 99.0	N/A	N/A	N/A	N/A	true	13C8-PFOS	27162.61	239.25	PFOS	N/A	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	73435.51	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	73435.51	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	70939.42	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	70939.42	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	75395.90	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	75395.90	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70585.17	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70585.17	250.00	PFTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.34	1281.29	< 0	34.8	false	13C2-PFTeDA	70585.17	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70585.17	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12577.61	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12577.61	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	15578.09	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	15578.09	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	0.96	131319.98	109.33	109.8	true	13C4-PFBA	63753.76	250.00				

Sample Name	J9995-FS(0)	Injection Vial	27
Sample ID	MW-B250-07-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:50:45	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	278780.77	736.38	187.4	true	13C3-PFBS	29989.60	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	85166.28	724.46	190.9	true	13C3-PFBS	29989.60	232.25	PFBS	0.310	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	382060.48	1471.06	48.3	true	13C5-PFHxA	66593.39	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	26940.89	1385.70	57.1	false	13C5-PFHxA	66593.39	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	163632.79	622.35	61.3	true	13C4-PFHpA	76935.85	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.13	4602.06	838.21	45.7	true	13C4-PFHpA	76935.85	250.00	PFHpA	0.030	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	2211562.51	5144.65	360.2	false	13C3-PFHxS	26923.21	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	601326.44	4949.07	329.1	false	13C3-PFHxS	26923.21	236.50	PFHxS	0.270	0.289	ü
PFOA_1	413.0 / 369.0	2.56	2804666.61	8757.21	249.4	false	13C8-PFOA	72855.51	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.52	274187.86	12843.61	198.5	false	13C8-PFOA	72855.51	250.00	PFOA	0.100	0.066	ü
PFNA_1	463.0 / 419.0	2.93	11763.56	37.97	32.2	true	13C9-PFNA	77180.40	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	4781.14	43.23	31.9	true	13C9-PFNA	77180.40	250.00	PFNA	0.410	0.325	ü
PFOS_1	499.0 / 80.0	2.89	2572057.05	4647.00	253.9	false	13C8-PFOS	27611.47	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	399117.94	4072.09	272.1	false	13C8-PFOS	27611.47	239.25	PFOS	0.160	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	75506.33	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	75506.33	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	66033.25	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	66033.25	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	66926.66	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	66926.66	250.00	PFDoA	N/A	0.182	ü
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	68947.84	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	68947.84	250.00	PFTTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1394.61	< 0	36.0	false	13C2-PFTeDA	68947.84	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	68947.84	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	13872.95	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	13872.95	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14223.64	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	14223.64	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	1.03	274652.95	504.11	324.8	true	13C4-PFBA	69326.04	250.00				

Sample Name	J9997-FS(0)	Injection Vial	29
Sample ID	MW-09-004-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:12:29	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	1746870.78	5143.63	323.7	false	13C3-PFBS	27072.49	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	502534.86	4958.63	331.5	false	13C3-PFBS	27072.49	232.25	PFBS	0.290	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	556968.32	2367.52	42.9	false	13C5-PFHxA	60338.46	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	49605.35	2780.57	72.7	false	13C5-PFHxA	60338.46	250.00	PFHxA	0.090	0.070	ü
PFHpA_1	363.0 / 319.0	2.16	358710.62	1417.90	74.0	false	13C4-PFHpA	73147.33	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.16	8546.05	1698.45	60.8	false	13C4-PFHpA	73147.33	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	3969849.15	10280.80	341.5	false	13C3-PFHxS	24148.00	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	1103229.02	10116.68	354.6	false	13C3-PFHxS	24148.00	236.50	PFHxS	0.280	0.289	ü
PFOA_1	413.0 / 369.0	2.55	1503056.85	4938.11	197.1	false	13C8-PFOA	69368.46	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.54	133079.73	6559.33	192.3	false	13C8-PFOA	69368.46	250.00	PFOA	0.090	0.066	ü
PFNA_1	463.0 / 419.0	2.93	35568.37	118.32	53.5	false	13C9-PFNA	72250.09	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	12766.47	127.88	46.7	false	13C9-PFNA	72250.09	250.00	PFNA	0.360	0.325	ü
PFOS_1	499.0 / 80.0	2.93	4030451.58	10309.19	264.3	false	13C8-PFOS	19471.98	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	679433.40	9811.63	298.5	false	13C8-PFOS	19471.98	239.25	PFOS	0.170	0.177	ü
PFDA_1	513.0 / 469.0	3.29	10203.48	36.58	24.0	true	13C6-PFDA	68155.25	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.28	750.85	55.16	27.3	true	13C6-PFDA	68155.25	250.00	PFDA	0.070	0.041	
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	59657.51	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	59657.51	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	59028.13	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	59028.13	250.00	PFDoA	N/A	0.182	ü
PFTTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	54956.70	250.00	PFTTrDA			
PFTTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTTrDA	54956.70	250.00	PFTTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.32	1573.94	< 0	34.8	false	13C2-PFTeDA	54956.70	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	54956.70	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	14007.86	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	14007.86	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	12880.20	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	12880.20	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	1.05	318374.50	1421.49	254.6	true	13C4-PFBA	37984.95	250.00				

Sample Name	J9998-FS(0)	Injection Vial	31
Sample ID	MW-NASB-072-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:34:13	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.46	3284771.00	7536.90	547.5	false	13C3-PFBS	34753.22	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.46	964401.80	7432.83	409.9	false	13C3-PFBS	34753.22	232.25	PFBS	0.290	0.322	ü
PFHxA_1	313.0 / 269.0	1.77	1462737.84	6490.94	121.1	false	13C5-PFHxA	57816.30	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.77	98501.10	5725.50	125.7	false	13C5-PFHxA	57816.30	250.00	PFHxA	0.070	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	767242.67	3381.96	164.2	false	13C4-PFHpA	65241.55	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.18	14733.13	3342.85	107.6	false	13C4-PFHpA	65241.55	250.00	PFHpA	0.020	0.021	ü
PFHxS_1	399.0 / 80.0	2.18	5379038.34	12624.09	372.1	false	13C3-PFHxS	26639.03	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	2.18	1561781.56	12980.61	358.6	false	13C3-PFHxS	26639.03	236.50	PFHxS	0.290	0.289	ü
PFOA_1	413.0 / 369.0	2.56	4380882.28	15461.84	295.0	false	13C8-PFOA	64387.12	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	353743.80	18738.11	294.0	false	13C8-PFOA	64387.12	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	2.94	38998.27	146.31	65.9	true	13C9-PFNA	63859.59	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.94	14249.49	162.14	61.0	false	13C9-PFNA	63859.59	250.00	PFNA	0.370	0.325	ü
PFOS_1	499.0 / 80.0	2.88	6032472.83	13523.29	228.7	false	13C8-PFOS	22210.46	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	944373.67	11953.34	268.5	false	13C8-PFOS	22210.46	239.25	PFOS	0.160	0.177	ü
PFDA_1	513.0 / 469.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	63905.04	250.00	PFDA			
PFDA_2	513.0 / 219.0	N/A	N/A	N/A	N/A	true	13C6-PFDA	63905.04	250.00	PFDA	N/A	0.041	ü
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	63050.36	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	63050.36	250.00	PFUnA	N/A	0.048	ü
PFDoA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	62932.08	250.00	PFDoA			
PFDoA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDoA	62932.08	250.00	PFDoA	N/A	0.182	ü
PFTeDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA			
PFTeDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	1790.13	< 0	37.6	false	13C2-PFTeDA	70877.41	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	70877.41	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12853.22	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	12853.22	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13788.70	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	13788.70	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	1.04	707358.06	2057.61	467.2	true	13C4-PFBA	61797.84	250.00				

Sample Name	I0064-FS(0)	Injection Vial	33
Sample ID	NASB-CW-GW03-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:55:55	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
PFBS_1	298.9 / 80.0	1.54	291118.09	788.59	31.3	true	13C3-PFBS	29257.84	232.25	PFBS			
PFBS_2	298.9 / 99.0	1.45	10165.72	53.25	34.6	true	13C3-PFBS	29257.84	232.25	PFBS	0.030	0.322	
PFHxA_1	313.0 / 269.0	1.76	114561.37	506.15	16.5	true	13C5-PFHxA	57948.76	250.00	PFHxA			
PFHxA_2	313.0 / 119.0	1.75	8755.17	538.96	25.2	false	13C5-PFHxA	57948.76	250.00	PFHxA	0.080	0.070	ü
PFHpA_1	363.0 / 319.0	2.17	40773.55	190.19	16.6	true	13C4-PFHpA	65943.72	250.00	PFHpA			
PFHpA_2	363.0 / 169.0	2.17	292.07	2.55	4.2	true	13C4-PFHpA	65943.72	250.00	PFHpA	0.010	0.021	
PFHxS_1	399.0 / 80.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	22763.64	236.50	PFHxS			
PFHxS_2	399.0 / 99.0	N/A	N/A	N/A	N/A	true	13C3-PFHxS	22763.64	236.50	PFHxS	N/A	0.289	ü
PFOA_1	413.0 / 369.0	2.56	272110.32	929.59	75.9	false	13C8-PFOA	67950.88	250.00	PFOA			
PFOA_2	413.0 / 169.0	2.55	21590.29	1107.13	63.2	false	13C8-PFOA	67950.88	250.00	PFOA	0.080	0.066	ü
PFNA_1	463.0 / 419.0	2.94	39526.28	147.34	56.1	true	13C9-PFNA	64268.78	250.00	PFNA			
PFNA_2	463.0 / 219.0	2.93	10426.54	117.21	50.6	true	13C9-PFNA	64268.78	250.00	PFNA	0.260	0.325	ü
PFOS_1	499.0 / 80.0	2.93	162502.64	406.87	71.8	false	13C8-PFOS	20554.19	239.25	PFOS			
PFOS_2	499.0 / 99.0	2.93	16383.79	236.66	61.0	false	13C8-PFOS	20554.19	239.25	PFOS	0.100	0.177	ü
PFDA_1	513.0 / 469.0	3.28	12040.95	42.77	31.3	true	13C6-PFDA	67424.85	250.00	PFDA			
PFDA_2	513.0 / 219.0	3.25	876.39	65.72	19.9	true	13C6-PFDA	67424.85	250.00	PFDA	0.070	0.041	
PFUnA_1	563.0 / 519.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	65419.01	250.00	PFUnA			
PFUnA_2	563.0 / 269.0	N/A	N/A	N/A	N/A	true	13C7-PFUnA	65419.01	250.00	PFUnA	N/A	0.048	ü
PFDaA_1	613.0 / 569.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	58095.97	250.00	PFDaA			
PFDaA_2	613.0 / 319.0	N/A	N/A	N/A	N/A	true	13C2-PFDaA	58095.97	250.00	PFDaA	N/A	0.182	ü
PFTrDA_1	663.0 / 619.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	58910.23	250.00	PFTrDA			
PFTrDA_2	663.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	58910.23	250.00	PFTrDA	N/A	0.071	ü
PFTeDA_1	713.0 / 669.0	4.33	2239.63	< 0	43.5	false	13C2-PFTeDA	58910.23	250.00	PFTeDA			
PFTeDA_2	713.0 / 169.0	N/A	N/A	N/A	N/A	true	13C2-PFTeDA	58910.23	250.00	PFTeDA	N/A	0.049	
NMeFOSAA_1	570.0 / 419.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	11954.55	250.00	NMeFOSAA			
NMeFOSAA_2	570.0 / 512.0	N/A	N/A	N/A	N/A	true	d3-MeFOSAA	11954.55	250.00	NMeFOSAA	N/A	0.505	ü
NEtFOSAA_1	584.0 / 419.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	12272.06	250.00	NEtFOSAA			
NEtFOSAA_2	584.0 / 483.0	N/A	N/A	N/A	N/A	true	d5-EtFOSAA	12272.06	250.00	NEtFOSAA	N/A	0.063	ü
PFBA	213.0 / 169.0	N/A	N/A	N/A	N/A	true	13C4-PFBA	40910.96	250.00				

Sample Name	KF41 IB	Injection Vial	36
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-14T23:02:16	Data File	AC_12142018_5-0369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	68596.10	232.85	940.0	false	13C3-PFBA	48319.56	250.00				
13C2-PFDoA	615.0 / 570.0	3.99	72469.08	214.15	754.0	false	13C2-PFDA	84046.94	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.54	18070.25	236.72	248.7	false	13C4-PFOS	26611.96	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.69	19391.08	245.58	364.9	false	13C4-PFOS	26611.96	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.80	75172.70	234.42	871.2	false	13C2-PFOA	90491.57	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.21	83897.25	240.66	366.6	false	13C2-PFOA	90491.57	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.63	88481.27	244.43	581.1	false	13C2-PFOA	90491.57	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	3.02	87284.73	256.74	481.1	false	13C2-PFOA	90491.57	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.38	81972.81	253.65	803.0	false	13C2-PFDA	84046.94	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.69	75436.63	240.54	585.5	false	13C2-PFDA	84046.94	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.45	79620.72	229.16	1263.7	false	13C2-PFDA	84046.94	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.49	28201.38	226.34	248.1	false	13C4-PFOS	26611.96	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.26	25716.40	212.49	225.0	false	13C4-PFOS	26611.96	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	3.03	24526.99	222.01	172.7	false	13C4-PFOS	26611.96	238.75		N/A	N/A	ü

Sample Name	KF41 IB	Injection Vial	5
Sample ID	Instrument Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T12:53:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	87329.84	268.83	1798.9	false	13C3-PFBA	53282.19	250.00				
13C2-PFDoA	615.0 / 570.0	3.91	80608.49	213.08	379.7	false	13C2-PFDA	93957.44	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.48	21088.41	246.04	369.9	false	13C4-PFOS	29880.82	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.63	20350.36	229.53	199.1	false	13C4-PFOS	29880.82	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.78	70330.79	233.38	328.1	false	13C2-PFOA	85039.73	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.18	81973.35	250.21	337.7	false	13C2-PFOA	85039.73	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.58	90416.91	265.79	442.1	false	13C2-PFOA	85039.73	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.95	92132.73	288.37	419.2	false	13C2-PFOA	85039.73	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.31	89164.97	246.80	419.4	false	13C2-PFDA	93957.44	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.63	78295.31	223.32	316.1	false	13C2-PFDA	93957.44	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.37	71199.16	183.31	648.2	false	13C2-PFDA	93957.44	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.46	27181.22	194.29	280.8	false	13C4-PFOS	29880.82	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.20	25458.85	187.35	280.6	false	13C4-PFOS	29880.82	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.96	28209.10	227.40	245.5	false	13C4-PFOS	29880.82	238.75		N/A	N/A	ü

Sample Name	CS469PB-FS(0)	Injection Vial	5
Sample ID	Procedural Blank	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T17:51:36	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	84304.35	255.54	1770.4	false	13C3-PFBA	54111.12	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	77923.16	273.90	292.2	false	13C2-PFDA	70658.54	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	19839.54	276.29	285.6	false	13C4-PFOS	25033.83	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	20771.02	279.63	208.8	false	13C4-PFOS	25033.83	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	72435.23	318.44	335.4	false	13C2-PFOA	64191.17	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	79046.71	319.65	408.8	false	13C2-PFOA	64191.17	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	83486.85	325.13	540.4	true	13C2-PFOA	64191.17	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	89586.71	371.48	418.4	true	13C2-PFOA	64191.17	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	85772.45	315.70	394.7	false	13C2-PFDA	70658.54	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	79001.35	299.63	317.1	false	13C2-PFDA	70658.54	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	74921.70	256.50	601.1	false	13C2-PFDA	70658.54	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	25690.31	219.19	301.0	false	13C4-PFOS	25033.83	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	27280.17	239.62	257.7	false	13C4-PFOS	25033.83	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	28050.66	269.91	215.6	false	13C4-PFOS	25033.83	238.75		N/A	N/A	ü

Sample Name	CS470LCS-FS(0)	Injection Vial	6
Sample ID	Laboratory Control Sample	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:02:28	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	68253.89	222.08	2267.2	false	13C3-PFBA	50408.95	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	66335.09	249.22	357.0	false	13C2-PFDA	66108.37	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	15846.29	251.64	215.7	false	13C4-PFOS	21953.34	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	15686.02	240.81	224.8	false	13C4-PFOS	21953.34	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	60993.14	243.78	331.5	false	13C2-PFOA	70603.85	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	64101.48	235.67	339.8	false	13C2-PFOA	70603.85	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	73391.33	259.86	477.2	false	13C2-PFOA	70603.85	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	75083.34	283.06	358.6	false	13C2-PFOA	70603.85	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	70677.36	278.04	367.7	false	13C2-PFDA	66108.37	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	62003.00	251.35	323.7	false	13C2-PFDA	66108.37	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	65872.76	241.04	516.8	false	13C2-PFDA	66108.37	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	24010.37	233.60	298.6	false	13C4-PFOS	21953.34	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	22571.71	226.08	309.3	false	13C4-PFOS	21953.34	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	23347.08	256.17	250.6	false	13C4-PFOS	21953.34	238.75		N/A	N/A	ü

Sample Name	J9989-FS(0)	Injection Vial	7
Sample ID	NASB-CW-GW-FB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:13:20	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	75329.56	227.41	2054.1	false	13C3-PFBA	54331.74	250.00				
13C2-PFDoA	615.0 / 570.0	3.89	72580.64	220.58	323.9	false	13C2-PFDA	81723.01	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	19113.90	268.03	265.6	false	13C4-PFOS	24860.73	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	17844.39	241.91	234.0	false	13C4-PFOS	24860.73	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.77	58361.65	223.18	422.6	false	13C2-PFOA	73795.02	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.17	69618.55	244.88	360.6	false	13C2-PFOA	73795.02	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	79597.48	269.64	396.2	false	13C2-PFOA	73795.02	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	80193.98	289.25	352.2	false	13C2-PFOA	73795.02	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	79873.75	254.18	331.1	false	13C2-PFDA	81723.01	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.61	66437.65	217.87	278.4	false	13C2-PFDA	81723.01	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.35	63821.12	188.91	558.9	false	13C2-PFDA	81723.01	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	24370.94	209.38	266.9	false	13C4-PFOS	24860.73	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	24124.97	213.38	252.6	false	13C4-PFOS	24860.73	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	25835.54	250.33	242.0	false	13C4-PFOS	24860.73	238.75		N/A	N/A	ü

Sample Name	J9999-FS(0)	Injection Vial	8
Sample ID	NASB-09-GW-FB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:24:12	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	77807.91	227.86	1797.8	false	13C3-PFBA	56009.33	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	75943.82	244.34	330.6	false	13C2-PFDA	77193.46	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	17725.00	220.73	382.3	false	13C4-PFOS	27995.14	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	17497.35	210.64	278.7	false	13C4-PFOS	27995.14	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	64148.39	224.98	337.5	false	13C2-PFOA	80461.89	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	75665.93	244.10	419.7	false	13C2-PFOA	80461.89	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	80110.13	248.89	439.9	false	13C2-PFOA	80461.89	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	86486.40	286.10	494.3	false	13C2-PFOA	80461.89	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	83908.62	282.69	307.2	false	13C2-PFDA	77193.46	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	70195.47	243.70	314.9	false	13C2-PFDA	77193.46	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	71860.09	225.19	542.1	false	13C2-PFDA	77193.46	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	24603.71	187.71	342.8	false	13C4-PFOS	27995.14	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	24112.83	189.39	316.0	false	13C4-PFOS	27995.14	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	23281.87	200.33	239.1	false	13C4-PFOS	27995.14	238.75		N/A	N/A	ü

Sample Name	J9992-FS(0)	Injection Vial	9
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:35:04	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	47923.27	190.38	987.2	false	13C3-PFBA	41286.94	250.00				
13C2-PFDoA	615.0 / 570.0	3.89	68824.00	228.62	292.0	false	13C2-PFDA	74768.84	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	12053.05	164.63	232.4	false	13C4-PFOS	25523.27	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.61	14901.98	196.77	272.3	false	13C4-PFOS	25523.27	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	55950.10	223.92	237.3	false	13C2-PFOA	70509.53	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	72330.00	266.28	375.3	false	13C2-PFOA	70509.53	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	66245.72	234.87	346.0	false	13C2-PFOA	70509.53	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	70805.98	267.29	482.4	false	13C2-PFOA	70509.53	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	65043.54	226.24	323.8	false	13C2-PFDA	74768.84	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	64129.99	229.86	375.9	false	13C2-PFDA	74768.84	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	67978.87	219.94	563.0	false	13C2-PFDA	74768.84	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	30217.88	252.87	282.5	false	13C4-PFOS	25523.27	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	19511.28	168.09	255.4	false	13C4-PFOS	25523.27	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.95	24748.94	233.57	190.2	false	13C4-PFOS	25523.27	238.75		N/A	N/A	ü

Sample Name	J9992MS-FS(0)	Injection Vial	10
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:45:55	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	48611.25	203.88	1002.2	false	13C3-PFBA	39107.47	250.00				
13C2-PFDoA	615.0 / 570.0	3.89	67218.48	219.44	295.8	false	13C2-PFDA	76079.60	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.46	15798.14	223.42	147.1	false	13C4-PFOS	24651.48	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	13673.60	186.94	202.5	false	13C4-PFOS	24651.48	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	61938.53	247.79	239.7	false	13C2-PFOA	70538.58	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	70263.58	258.56	302.1	false	13C2-PFOA	70538.58	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	67465.65	239.10	429.5	false	13C2-PFOA	70538.58	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	64321.74	242.71	390.1	false	13C2-PFOA	70538.58	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	63598.74	217.40	389.2	false	13C2-PFDA	76079.60	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	60899.59	214.52	346.3	false	13C2-PFDA	76079.60	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	67274.15	213.91	536.0	false	13C2-PFDA	76079.60	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	29845.54	258.59	324.9	false	13C4-PFOS	24651.48	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	23892.92	213.12	240.6	false	13C4-PFOS	24651.48	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	21468.26	209.78	170.5	false	13C4-PFOS	24651.48	238.75		N/A	N/A	ü

Sample Name	J9992MSD-FS(0)	Injection Vial	11
Sample ID	NASB-CW-GW01D-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T18:56:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	49672.57	201.89	1480.3	false	13C3-PFBA	40355.75	250.00				
13C2-PFDoA	615.0 / 570.0	3.89	66101.70	204.77	315.9	false	13C2-PFDA	80172.80	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	13204.92	209.27	125.8	false	13C4-PFOS	21998.35	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.61	13007.64	199.28	258.8	false	13C4-PFOS	21998.35	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.77	61166.73	240.96	294.5	false	13C2-PFOA	71634.79	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.17	72654.07	263.27	436.0	false	13C2-PFOA	71634.79	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	67457.27	235.41	406.2	false	13C2-PFOA	71634.79	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	69301.61	257.50	342.9	false	13C2-PFOA	71634.79	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	65630.76	212.90	287.7	false	13C2-PFDA	80172.80	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	59115.87	197.61	265.6	false	13C2-PFDA	80172.80	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	65981.00	199.08	462.3	false	13C2-PFDA	80172.80	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.46	30187.58	293.10	279.3	false	13C4-PFOS	21998.35	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.20	21122.38	211.13	223.3	false	13C4-PFOS	21998.35	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	21251.53	232.70	168.8	false	13C4-PFOS	21998.35	238.75		N/A	N/A	ü

Sample Name	J9993-FS(0)	Injection Vial	12
Sample ID	NASB-CW-GW02-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:07:41	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	56516.12	174.19	1173.0	false	13C3-PFBA	53215.35	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	72726.81	241.15	353.8	false	13C2-PFDA	74902.32	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	15758.79	219.39	225.8	false	13C4-PFOS	25041.98	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	16868.26	227.02	201.6	false	13C4-PFOS	25041.98	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	60091.19	238.31	275.6	false	13C2-PFOA	71156.17	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	60701.21	221.43	351.8	false	13C2-PFOA	71156.17	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	63069.17	221.58	327.4	false	13C2-PFOA	71156.17	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	66427.10	248.48	319.3	false	13C2-PFOA	71156.17	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	64052.24	222.40	531.8	false	13C2-PFDA	74902.32	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	62686.25	224.28	338.2	false	13C2-PFDA	74902.32	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	52102.97	168.27	529.3	false	13C2-PFDA	74902.32	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	27139.87	231.48	262.0	false	13C4-PFOS	25041.98	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	19703.27	173.01	213.6	false	13C4-PFOS	25041.98	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	20821.51	200.28	191.7	false	13C4-PFOS	25041.98	238.75		N/A	N/A	ü

Sample Name	J9994-FS(0)	Injection Vial	13
Sample ID	MW-09-204-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:18:33	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	42073.38	172.04	881.6	false	13C3-PFBA	40111.93	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	61213.44	210.35	280.4	false	13C2-PFDA	72276.74	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	12198.12	203.07	228.2	false	13C4-PFOS	20941.30	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	11315.58	182.11	255.3	false	13C4-PFOS	20941.30	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.77	50819.15	200.53	312.4	false	13C2-PFOA	71515.61	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	59205.56	214.89	349.3	false	13C2-PFOA	71515.61	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	63702.39	222.68	482.6	false	13C2-PFOA	71515.61	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	67649.98	251.79	357.0	false	13C2-PFOA	71515.61	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	59349.72	213.55	345.0	false	13C2-PFDA	72276.74	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	54074.75	200.50	273.2	false	13C2-PFDA	72276.74	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	60445.25	202.30	658.0	false	13C2-PFDA	72276.74	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.46	24650.25	251.41	209.0	false	13C4-PFOS	20941.30	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	22134.07	232.41	289.4	false	13C4-PFOS	20941.30	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	22253.58	255.98	213.2	false	13C4-PFOS	20941.30	238.75		N/A	N/A	ü

Sample Name	J9996-FS(0)	Injection Vial	14
Sample ID	MW-09-22-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T19:29:26	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	63999.60	158.07	1053.0	false	13C3-PFBA	66407.35	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	51624.97	154.31	293.6	false	13C2-PFDA	83090.29	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	13759.64	183.68	288.9	false	13C4-PFOS	26115.85	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	13649.43	176.15	168.9	false	13C4-PFOS	26115.85	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	54805.93	194.34	280.2	false	13C2-PFOA	79582.45	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	64789.07	211.32	450.4	false	13C2-PFOA	79582.45	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	71307.49	223.99	470.4	false	13C2-PFOA	79582.45	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	69418.05	232.18	420.4	false	13C2-PFOA	79582.45	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	68564.71	214.60	323.6	false	13C2-PFDA	83090.29	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	57335.90	184.93	261.5	false	13C2-PFDA	83090.29	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	51286.16	149.31	499.3	false	13C2-PFDA	83090.29	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	31366.07	256.52	266.6	false	13C4-PFOS	26115.85	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	26948.54	226.90	306.5	false	13C4-PFOS	26115.85	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.94	25465.79	234.88	195.0	false	13C4-PFOS	26115.85	238.75		N/A	N/A	ü

Sample Name	J9987-FS(0)	Injection Vial	17
Sample ID	NASB-CW-GW04-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:02:03	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	53258.24	197.67	693.6	false	13C3-PFBA	44192.96	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	72245.70	236.27	301.6	false	13C2-PFDA	75942.41	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	15762.61	213.14	301.3	false	13C4-PFOS	25782.56	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	16518.00	215.92	264.4	false	13C4-PFOS	25782.56	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	62732.84	243.64	237.6	false	13C2-PFOA	72659.87	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	79424.60	283.74	393.0	false	13C2-PFOA	72659.87	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	78567.60	270.31	441.8	false	13C2-PFOA	72659.87	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	73857.41	270.56	298.4	false	13C2-PFOA	72659.87	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	76732.21	262.77	406.3	false	13C2-PFDA	75942.41	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	69959.69	246.88	289.0	false	13C2-PFDA	75942.41	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	65868.47	209.81	648.3	false	13C2-PFDA	75942.41	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	30560.98	253.17	391.2	false	13C4-PFOS	25782.56	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	26460.61	225.67	262.2	false	13C4-PFOS	25782.56	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	24903.53	232.67	181.2	false	13C4-PFOS	25782.56	238.75		N/A	N/A	ü

Sample Name	J9988-FS(0)	Injection Vial	19
Sample ID	NASB-CW-DUP-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:23:47	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	50341.28	196.30	661.4	false	13C3-PFBA	42062.27	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	64176.91	209.42	313.5	false	13C2-PFDA	76110.82	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.46	12868.91	174.33	209.1	false	13C4-PFOS	25734.34	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	13749.59	180.07	228.5	false	13C4-PFOS	25734.34	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	54500.85	216.26	235.9	false	13C2-PFOA	71118.18	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.15	63099.77	230.31	380.6	false	13C2-PFOA	71118.18	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	61130.78	214.88	375.5	false	13C2-PFOA	71118.18	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.94	60427.65	226.16	345.2	false	13C2-PFOA	71118.18	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.29	60829.76	207.85	334.2	false	13C2-PFDA	76110.82	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	60505.55	213.04	315.4	false	13C2-PFDA	76110.82	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	66300.10	210.72	578.2	false	13C2-PFDA	76110.82	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	27515.57	228.37	280.4	false	13C4-PFOS	25734.34	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	23229.05	198.48	283.2	false	13C4-PFOS	25734.34	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	23628.09	221.17	173.8	false	13C4-PFOS	25734.34	238.75		N/A	N/A	ü

Sample Name	J9990-FS(0)	Injection Vial	21
Sample ID	NASB-CW-GW-RB01-120618	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T20:45:32	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	46900.06	130.15	1176.2	true	13C3-PFBA	59106.56	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	74675.49	210.19	282.6	false	13C2-PFDA	88238.01	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	17288.05	210.84	300.4	false	13C4-PFOS	28586.12	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.60	16503.34	194.57	197.7	false	13C4-PFOS	28586.12	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	44395.49	158.74	277.7	false	13C2-PFOA	78923.29	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.15	52977.63	174.24	388.7	false	13C2-PFOA	78923.29	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	68122.56	215.78	403.8	false	13C2-PFOA	78923.29	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	77510.83	261.41	366.8	false	13C2-PFOA	78923.29	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	72763.48	214.46	302.4	false	13C2-PFDA	88238.01	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	71212.56	216.28	336.3	false	13C2-PFDA	88238.01	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	74046.27	203.00	632.3	false	13C2-PFDA	88238.01	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.46	28608.40	213.75	294.8	false	13C4-PFOS	28586.12	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	23623.81	181.72	320.4	false	13C4-PFOS	28586.12	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	26819.75	226.00	322.3	false	13C4-PFOS	28586.12	238.75		N/A	N/A	ü

Sample Name	J9991-FS(0)	Injection Vial	23
Sample ID	NASB-CW-GW01S-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:07:18	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	63753.76	171.63	1318.7	false	13C3-PFBA	60926.96	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	75395.90	236.62	257.5	false	13C2-PFDA	79138.50	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	12403.05	158.53	202.1	false	13C4-PFOS	27274.94	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.61	15096.59	186.54	209.4	false	13C4-PFOS	27274.94	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	60160.45	216.42	359.4	false	13C2-PFOA	78444.65	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	64603.46	213.77	438.1	false	13C2-PFOA	78444.65	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.56	68751.38	219.10	470.9	false	13C2-PFOA	78444.65	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	72249.73	245.15	330.9	false	13C2-PFOA	78444.65	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	73435.51	241.33	370.6	false	13C2-PFDA	79138.50	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	70939.42	240.23	320.8	false	13C2-PFDA	79138.50	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.34	70585.17	215.76	680.3	false	13C2-PFDA	79138.50	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	28919.64	226.46	325.7	false	13C4-PFOS	27274.94	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	24563.17	198.02	260.4	false	13C4-PFOS	27274.94	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	27298.11	241.09	292.2	false	13C4-PFOS	27274.94	238.75		N/A	N/A	ü

Sample Name	J9995-FS(0)	Injection Vial	27
Sample ID	MW-B250-07-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T21:50:45	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	69326.04	185.06	1258.1	false	13C3-PFBA	61442.57	250.00				
13C2-PFDoA	615.0 / 570.0	3.87	66926.66	202.09	325.0	false	13C2-PFDA	82252.10	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.44	13748.32	176.71	257.0	false	13C4-PFOS	27123.45	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	13932.14	173.11	196.6	false	13C4-PFOS	27123.45	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.77	66593.39	219.67	293.5	false	13C2-PFOA	85546.11	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	76935.85	233.45	374.0	false	13C2-PFOA	85546.11	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	72855.51	212.90	382.7	false	13C2-PFOA	85546.11	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	77180.40	240.14	438.9	false	13C2-PFOA	85546.11	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	75506.33	238.74	484.1	false	13C2-PFDA	82252.10	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	66033.25	215.15	393.2	false	13C2-PFDA	82252.10	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	68947.84	202.78	601.4	false	13C2-PFDA	82252.10	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	29989.60	236.15	260.2	false	13C4-PFOS	27123.45	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	27156.98	220.16	318.7	false	13C4-PFOS	27123.45	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	27436.33	243.66	238.6	false	13C4-PFOS	27123.45	238.75		N/A	N/A	ü

Sample Name	J9997-FS(0)	Injection Vial	29
Sample ID	MW-09-004-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:12:29	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	37984.95	132.30	835.4	false	13C3-PFBA	47092.96	250.00				
13C2-PFDoA	615.0 / 570.0	3.87	59028.13	190.52	344.9	false	13C2-PFDA	76949.05	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	14097.44	194.91	262.9	false	13C4-PFOS	25214.85	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	12673.31	169.39	172.1	false	13C4-PFOS	25214.85	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	60338.46	218.15	169.7	false	13C2-PFOA	78051.15	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	73147.33	243.26	451.0	false	13C2-PFOA	78051.15	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	69368.46	222.18	561.8	false	13C2-PFOA	78051.15	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	72250.09	246.39	420.1	false	13C2-PFOA	78051.15	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	68155.25	230.35	422.0	false	13C2-PFDA	76949.05	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.59	59657.51	207.77	336.2	false	13C2-PFDA	76949.05	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.32	54956.70	172.77	545.7	false	13C2-PFDA	76949.05	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	27072.49	229.32	253.1	false	13C4-PFOS	25214.85	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	23558.77	205.44	272.0	false	13C4-PFOS	25214.85	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	19978.70	190.86	180.3	false	13C4-PFOS	25214.85	238.75		N/A	N/A	ü

Sample Name	J9998-FS(0)	Injection Vial	31
Sample ID	MW-NASB-072-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:34:13	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.05	61797.84	177.75	1157.3	false	13C3-PFBA	57023.90	250.00				
13C2-PFDoA	615.0 / 570.0	3.88	62932.08	188.45	329.6	false	13C2-PFDA	82941.89	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.45	12660.03	168.11	318.1	false	13C4-PFOS	26254.21	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.59	13374.97	171.69	189.4	false	13C4-PFOS	26254.21	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.76	57816.30	204.21	283.1	false	13C2-PFOA	79894.03	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	65241.55	211.97	353.4	false	13C2-PFOA	79894.03	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	64387.12	201.47	406.9	false	13C2-PFOA	79894.03	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	63859.59	212.75	535.7	false	13C2-PFOA	79894.03	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.28	63905.04	200.38	397.7	false	13C2-PFDA	82941.89	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.60	63050.36	203.72	336.3	false	13C2-PFDA	82941.89	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	70877.41	206.72	663.3	false	13C2-PFDA	82941.89	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.45	34753.22	282.73	347.9	false	13C4-PFOS	26254.21	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.18	26350.99	220.70	307.3	false	13C4-PFOS	26254.21	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.92	21713.94	199.22	181.7	false	13C4-PFOS	26254.21	238.75		N/A	N/A	ü

Sample Name	I0064-FS(0)	Injection Vial	33
Sample ID	NASB-CW-GW03-1218	Injection Volume	10.00
Sample Type	Unknown	Instrument Name	QTRAP 5500
Acquisition Date	2018-12-19T22:55:55	Data File	AC_12192018_5-369.wiff
Acquisition Method	5-0369.dam	Result Table	18-0718_SIS
Sample Comment			

Results Summary

Analyte	MRM Transition	RT	Area	Conc. (ng/L)	S/N Ratio	Modified	IS	IS Area	IS Conc. (ng/L)	Ratio Group	Ion Ratio	Expected Ion Ratio	Ratio OK
13C4-PFBA	217.0 / 172.0	1.04	40910.96	172.49	421.1	false	13C3-PFBA	38901.08	250.00				
13C2-PFDoA	615.0 / 570.0	3.87	58095.97	184.30	277.6	false	13C2-PFDA	78290.02	250.00		N/A	N/A	ü
d3-MeFOSAA	573.0 / 419.0	3.43	11771.40	178.57	200.2	false	13C4-PFOS	22981.24	238.75		N/A	N/A	ü
d5-EtFOSAA	589.0 / 419.0	3.58	12408.10	181.97	217.9	false	13C4-PFOS	22981.24	238.75		N/A	N/A	ü
13C5-PFHxA	318.0 / 273.0	1.75	57948.76	226.44	188.6	false	13C2-PFOA	72216.82	250.00		N/A	N/A	ü
13C4-PFHpA	367.0 / 322.0	2.16	65943.72	237.03	384.4	false	13C2-PFOA	72216.82	250.00		N/A	N/A	ü
13C8-PFOA	421.0 / 376.0	2.55	67950.88	235.22	286.7	false	13C2-PFOA	72216.82	250.00		N/A	N/A	ü
13C9-PFNA	472.0 / 427.0	2.93	64268.78	236.88	492.3	false	13C2-PFOA	72216.82	250.00		N/A	N/A	ü
13C6-PFDA	519.0 / 474.0	3.27	67424.85	223.98	345.4	false	13C2-PFDA	78290.02	250.00		N/A	N/A	ü
13C7-PFUnA	570.0 / 525.0	3.58	65419.01	223.93	297.5	false	13C2-PFDA	78290.02	250.00		N/A	N/A	ü
13C2-PFTeDA	715.0 / 670.0	4.33	58910.23	182.02	593.3	false	13C2-PFDA	78290.02	250.00		N/A	N/A	ü
13C3-PFBS	302.0 / 99.0	1.44	29257.84	271.92	172.6	false	13C4-PFOS	22981.24	238.75		N/A	N/A	ü
13C3-PFHxS	402.0 / 99.0	2.19	24336.07	232.85	141.3	false	13C4-PFOS	22981.24	238.75		N/A	N/A	ü
13C8-PFOS	507.0 / 99.0	2.93	19102.78	200.23	136.2	false	13C4-PFOS	22981.24	238.75		N/A	N/A	ü

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	BRUNSWICK_NAS	18-0718							N6247016D9008	WE21	TETRA TECH, INC.	NASB-09-GW-FB01-120618	Water for QC samples	Field blank	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718	SITE 00009	SITE 00009	MW-NASB-072	Monitoring well	3016015.44	385801.84	N6247016D9008	WE21	TETRA TECH, INC.	MW-NASB-072-1218	Ground water	Normal (Regular)	5-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718	SITE 00009	SITE 00009	MW-09-204	Monitoring well	3015255.07	386621.82	N6247016D9008	WE21	TETRA TECH, INC.	MW-09-204-1218	Ground water	Normal (Regular)	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718	SITE 00009	SITE 00009	MW-09-004	Monitoring well	3015756.065	386111.569	N6247016D9008	WE21	TETRA TECH, INC.	MW-09-004-1218	Ground water	Normal (Regular)	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718							N6247016D9008	WE21	TETRA TECH, INC.	NASB-CW-GW-RB01-120618	Water for QC samples	Equipment blank	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718	RCRA CLOSURE	SITE 00011	MW-B250-07	Monitoring well	3015133.3	386244.48	N6247016D9008	WE21	TETRA TECH, INC.	MW-B250-07-1218	Ground water	Normal (Regular)	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718							N6247016D9008	WE21	TETRA TECH, INC.	NASB-CW-GW-FB01-120618	Water for QC samples	Field blank	6-Dec-18	537	Perfluoroalkyl Compounds
MID_ATLANTIC	BRUNSWICK_NAS	18-0718	SITE 00009	SITE 00009	MW-09-22	Monitoring well	3015273.02	386195.43	N6247016D9008	WE21	TETRA TECH, INC.	MW-09-22-1218	Ground water	Normal (Regular)	6-Dec-18	537	Perfluoroalkyl Compounds