

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
 Data File : BF135181.D
 Acq On : 12 Sep 2023 14:50
 Operator : CG\JU
 Sample : 04212-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-OU3-DENALI-2

Quant Time: Sep 13 02:04:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

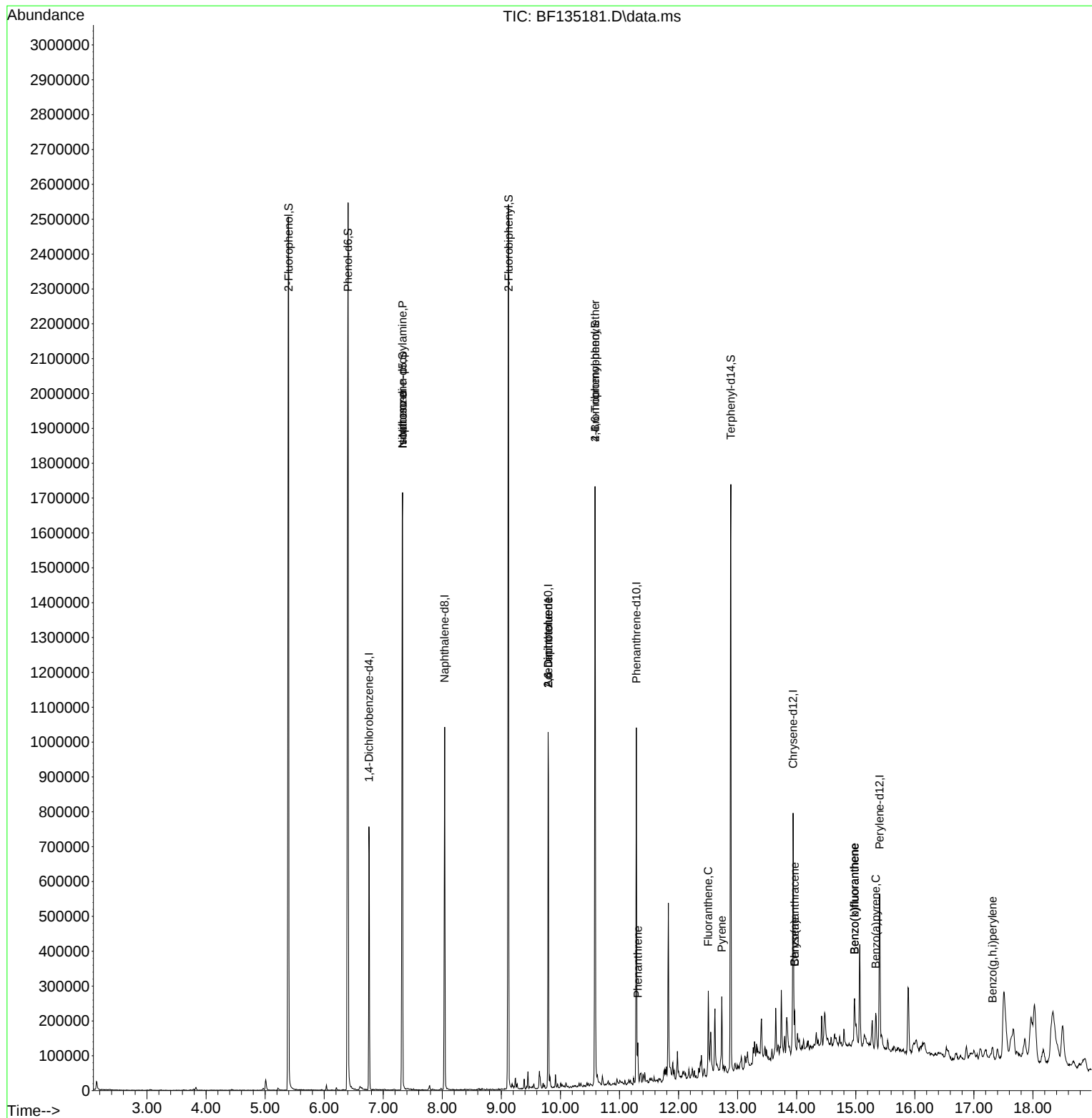
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	110073	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	425181	20.000	ng	0.00
39) Acenaphthene-d10	9.792	164	199926	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	337554	20.000	ng	0.00
76) Chrysene-d12	13.939	240	202977	20.000	ng	0.00
86) Perylene-d12	15.404	264	213865	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	728144	107.591	ng	0.01
7) Phenol-d6	6.404	99	904365	105.091	ng	0.00
23) Nitrobenzene-d5	7.328	82	572327	73.132	ng	0.00
42) 2,4,6-Tribromophenol	10.586	330	203746	102.551	ng	-0.01
45) 2-Fluorobiphenyl	9.122	172	868997	65.578	ng	0.00
79) Terphenyl-d14	12.886	244	597644	45.644	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.328	70	76675	14.385	ng	# 78
25) Isophorone	7.328	82	568286	39.545	ng	# 65
51) 2,6-Dinitrotoluene	9.792	165	25810	8.716	ng	# 17
57) 2,4-Dinitrotoluene	9.792	165	25810	6.962	ng	# 18
67) 4-Bromophenyl-phenylether	10.586	248	13095	3.901	ng	# 1
71) Phenanthrene	11.310	178	36502	2.286	ng	97
75) Fluoranthene	12.504	202	89971	5.408	ng	98
78) Pyrene	12.733	202	85338	4.416	ng	99
81) Benzo(a)anthracene	13.968	228	49515	3.778	ng	95
83) Chrysene	13.968	228	49515	3.800	ng	97
88) Benzo(b)fluoranthene	14.980	252	89040	7.691	ng	# 94
89) Benzo(k)fluoranthene	14.980	252	88739	7.759	ng	# 95
90) Benzo(a)pyrene	15.339	252	44259	4.009	ng	96
92) Benzo(g,h,i)perylene	17.315	276	27226	2.272	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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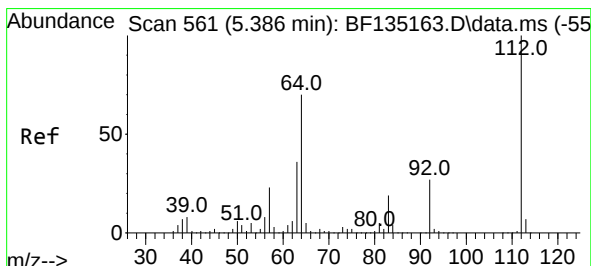
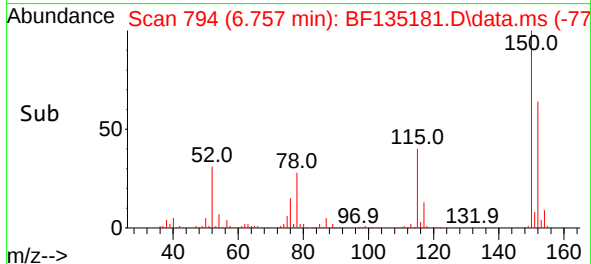
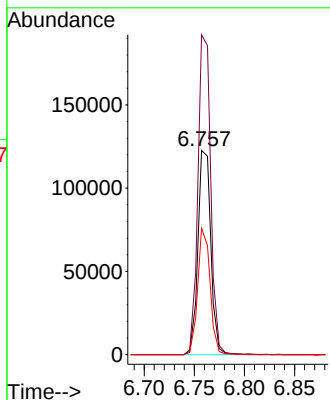
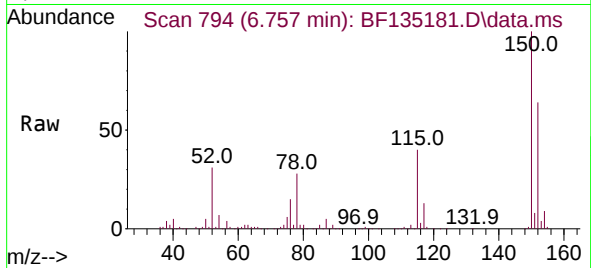




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

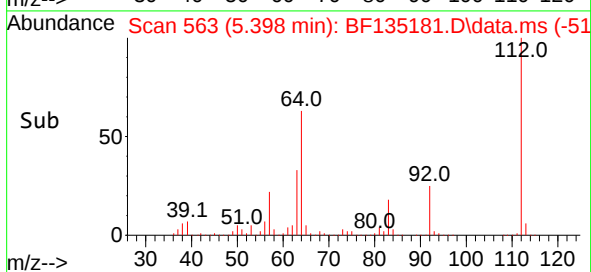
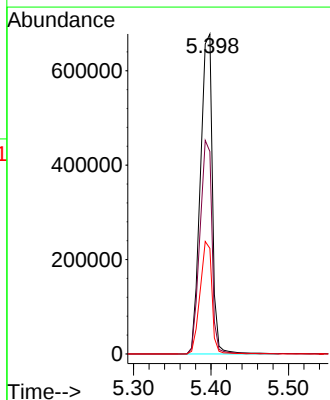
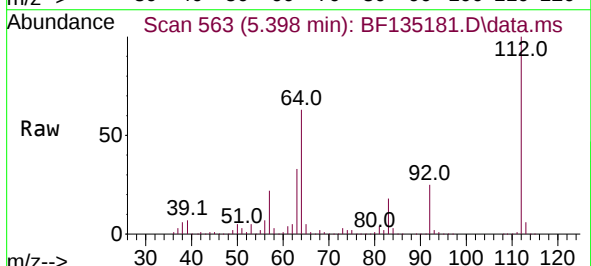
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

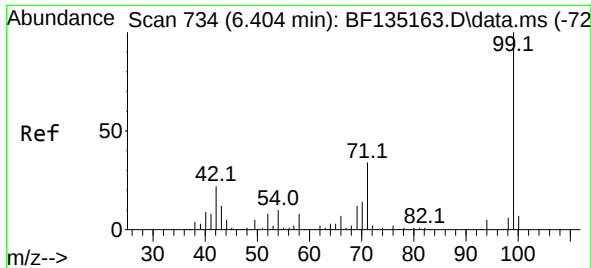
Tgt Ion:152 Resp: 110073
Ion Ratio Lower Upper
152 100
150 156.7 127.8 191.6
115 62.0 49.8 74.8



#5
2-Fluorophenol
Concen: 107.591 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Tgt Ion:112 Resp: 728144
Ion Ratio Lower Upper
112 100
64 63.2 55.9 83.9
63 33.0 29.0 43.6

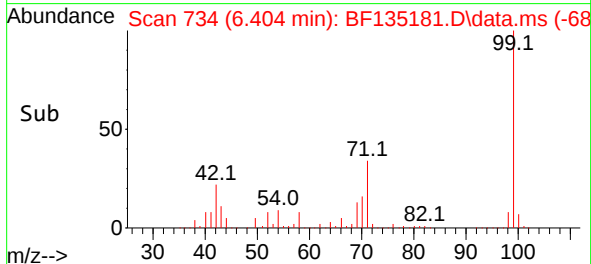
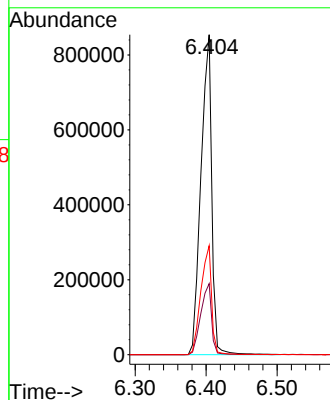
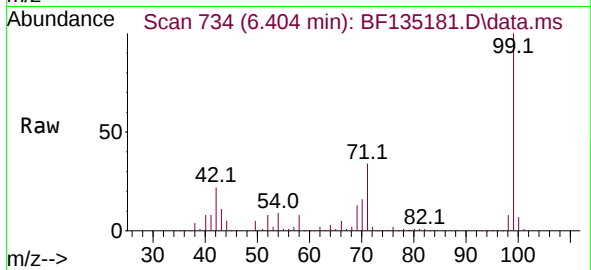




#7
Phenol-d6
Concen: 105.091 ng
RT: 6.404 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

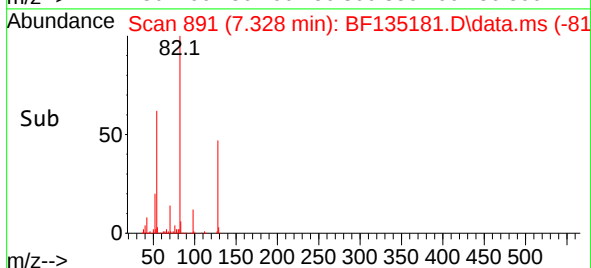
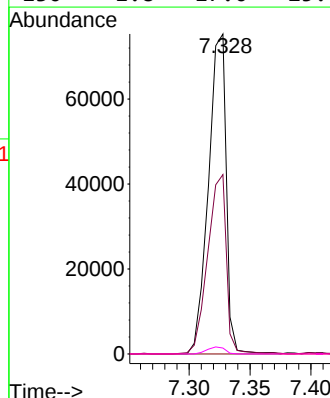
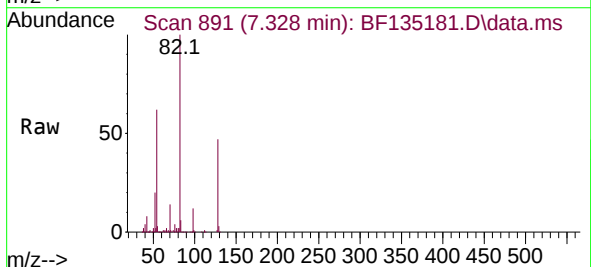
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

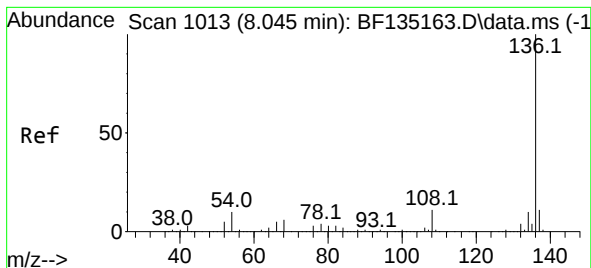
Tgt Ion: 99 Resp: 904365
Ion Ratio Lower Upper
99 100
42 22.2 17.9 26.9
71 34.0 27.0 40.6



#19
n-Nitroso-di-n-propylamine
Concen: 14.385 ng
RT: 7.328 min Scan# 891
Delta R.T. 0.141 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Tgt Ion: 70 Resp: 76675
Ion Ratio Lower Upper
70 100
42 56.0 55.4 83.0
101 0.0 7.7 11.5#
130 1.8 17.0 25.6#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.039 min Scan# 1012

Delta R.T. -0.006 min

Lab File: BF135181.D

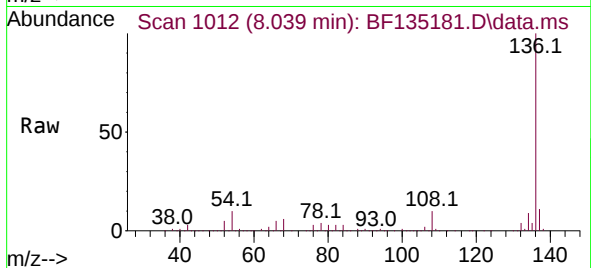
Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



Tgt Ion:136 Resp: 425181

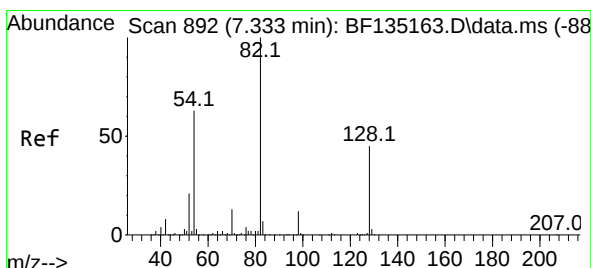
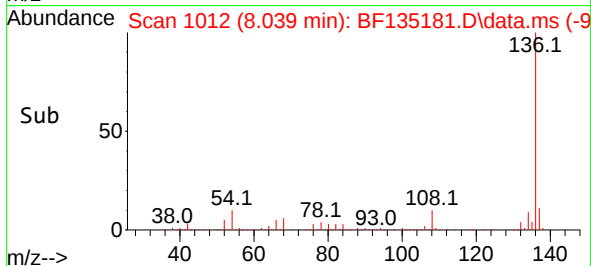
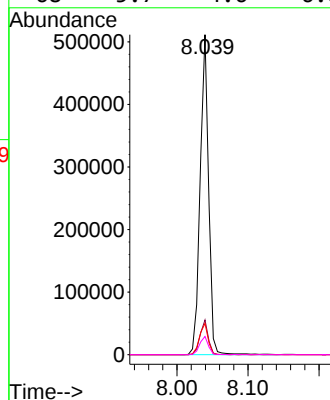
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 9.8 7.7 11.5

68 5.7 4.6 6.8



#23

Nitrobenzene-d5

Concen: 73.132 ng

RT: 7.328 min Scan# 891

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

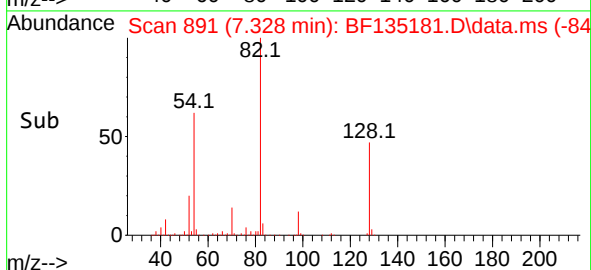
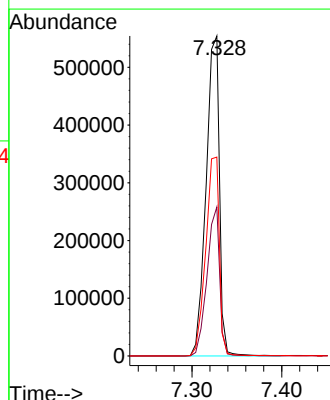
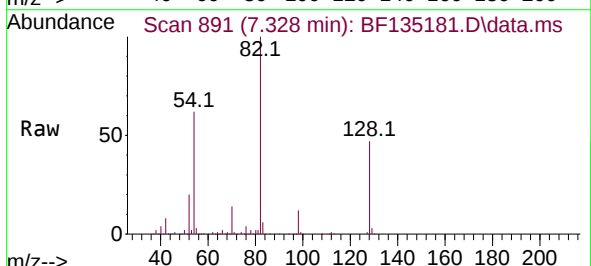
Tgt Ion: 82 Resp: 572327

Ion Ratio Lower Upper

82 100

128 46.5 35.8 53.6

54 62.1 50.6 76.0

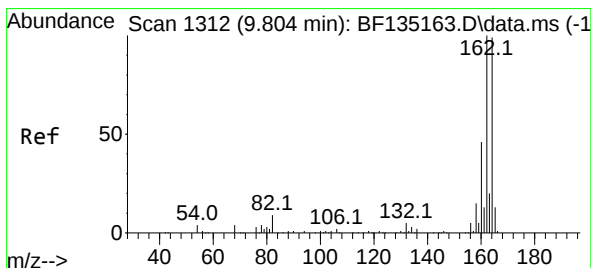
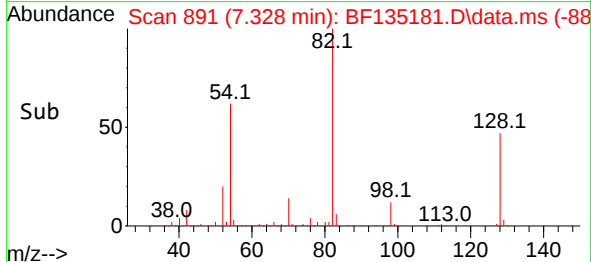
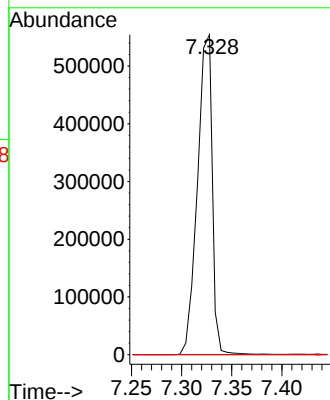
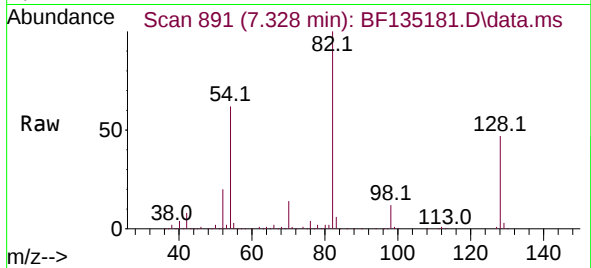




#25
Isophorone
Concen: 39.545 ng
RT: 7.328 min Scan# 891
Delta R.T. -0.265 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

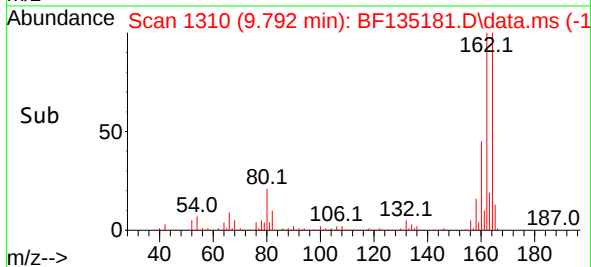
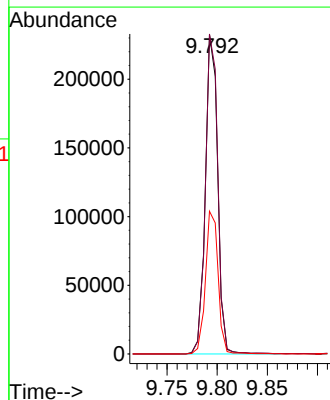
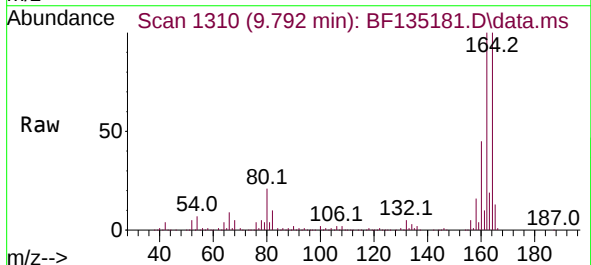
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

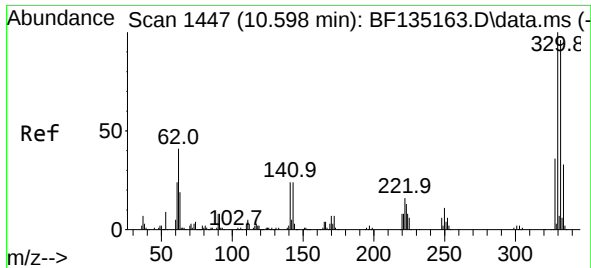
Tgt Ion: 82 Resp: 568286
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.5 21.7#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

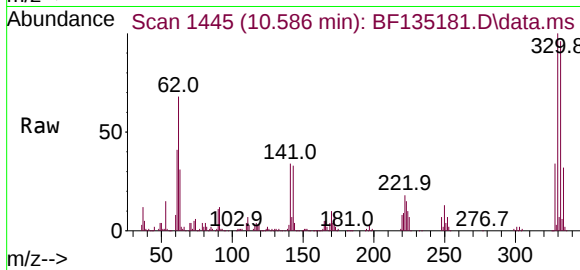
Tgt Ion:164 Resp: 199926
Ion Ratio Lower Upper
164 100
162 100.2 81.0 121.4
160 44.7 37.0 55.4



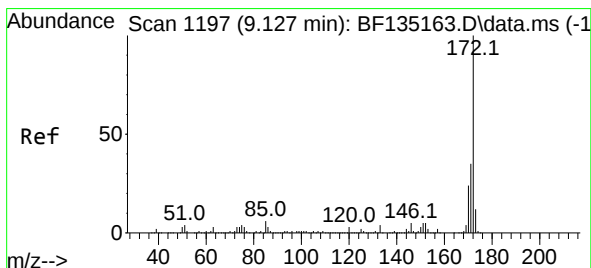
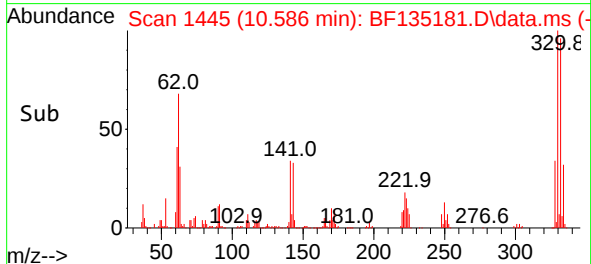
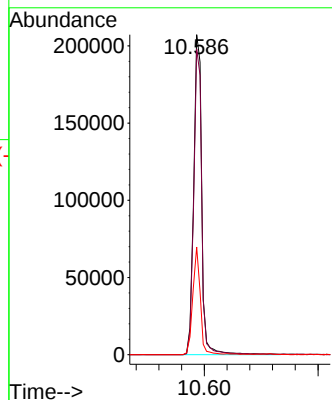


#42
2,4,6-Tribromophenol
Concen: 102.551 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

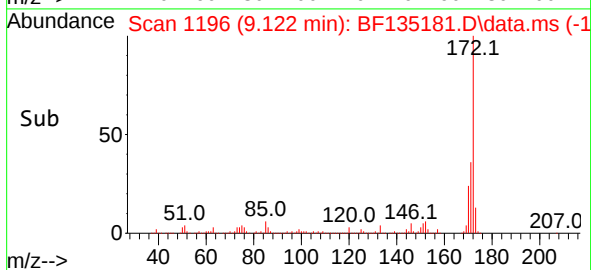
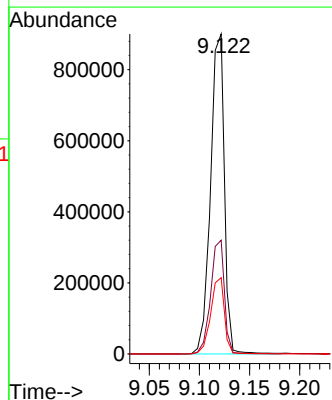
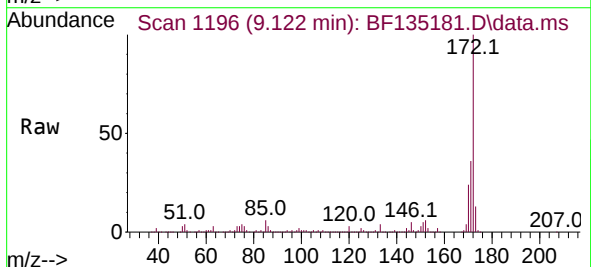


Tgt Ion:330 Resp: 203746
Ion Ratio Lower Upper
330 100
332 94.7 77.3 115.9
141 31.7 25.8 38.8



#45
2-Fluorobiphenyl
Concen: 65.578 ng
RT: 9.122 min Scan# 1196
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Tgt Ion:172 Resp: 868997
Ion Ratio Lower Upper
172 100
171 35.6 28.4 42.6
170 23.9 19.0 28.4





#51

2,6-Dinitrotoluene

Concen: 8.716 ng

RT: 9.792 min Scan# 1310

Delta R.T. 0.200 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

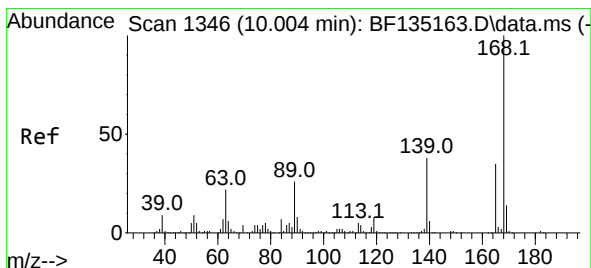
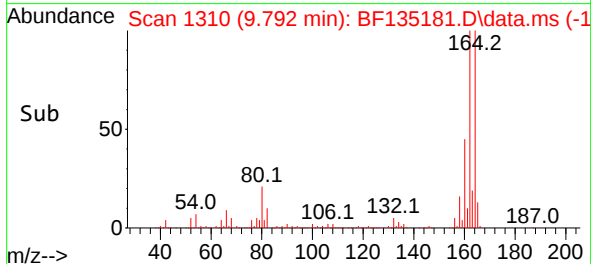
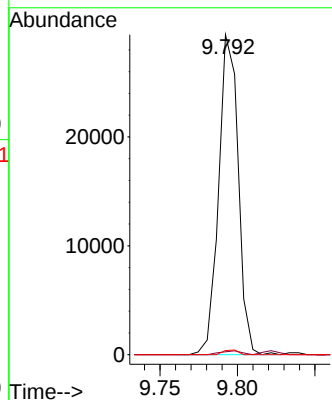
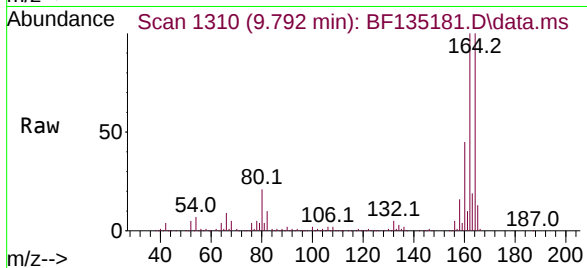
Tgt Ion:165 Resp: 25810

Ion Ratio Lower Upper

165 100

63 0.9 59.4 89.2#

89 1.3 49.8 74.8#



#57

2,4-Dinitrotoluene

Concen: 6.962 ng

RT: 9.792 min Scan# 1310

Delta R.T. -0.212 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Tgt Ion:165 Resp: 25810

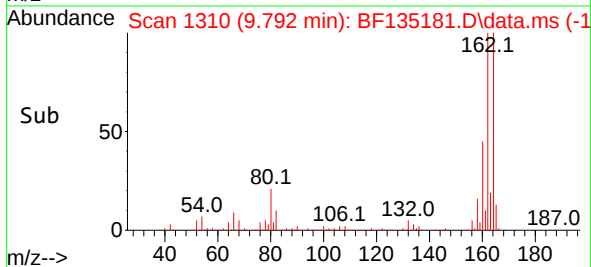
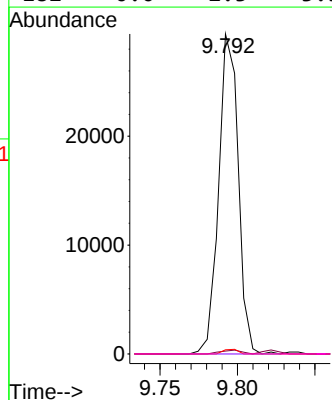
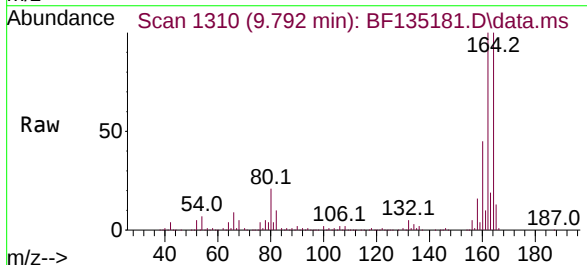
Ion Ratio Lower Upper

165 100

63 0.9 50.1 75.1#

89 1.3 59.3 88.9#

182 0.0 2.3 3.5#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.286 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

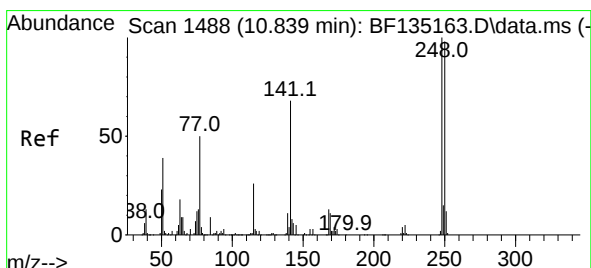
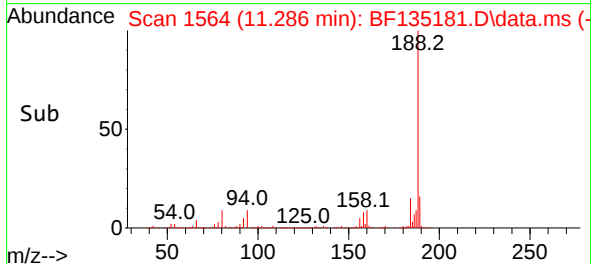
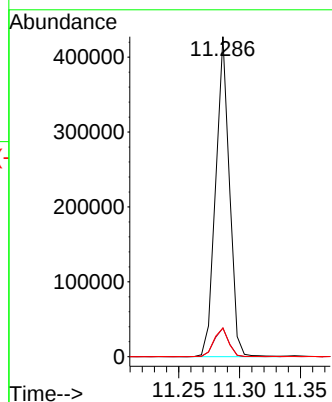
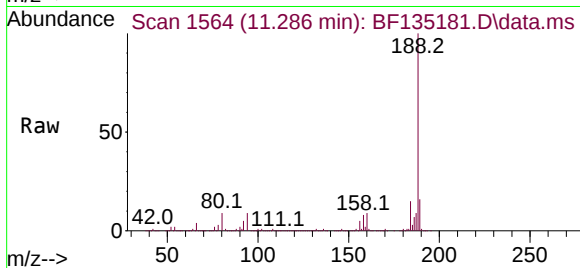
Tgt Ion:188 Resp: 337554

Ion Ratio Lower Upper

188 100

94 9.0 7.0 10.6

80 8.9 7.5 11.3



#67

4-Bromophenyl-phenylether

Concen: 3.901 ng

RT: 10.586 min Scan# 1445

Delta R.T. -0.253 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

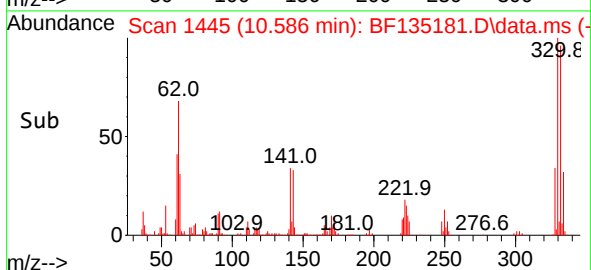
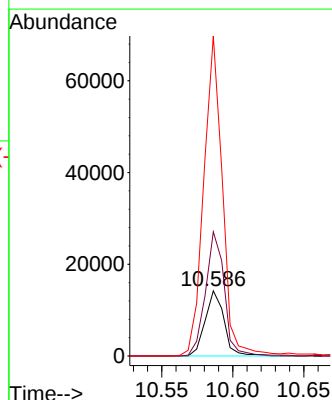
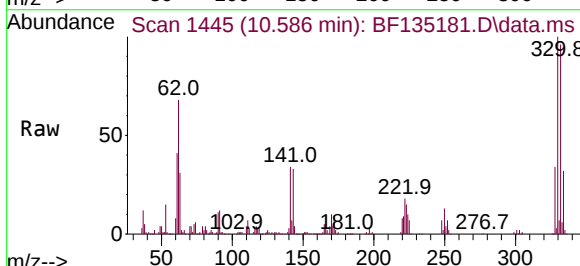
Tgt Ion:248 Resp: 13095

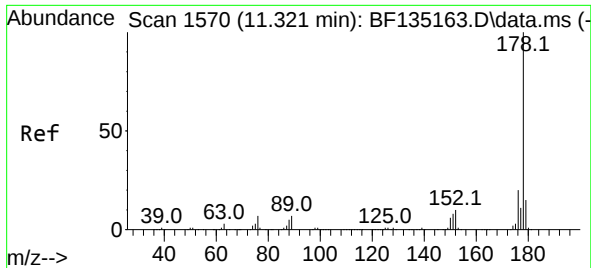
Ion Ratio Lower Upper

248 100

250 190.9 78.6 117.8#

141 491.8 54.2 81.2#

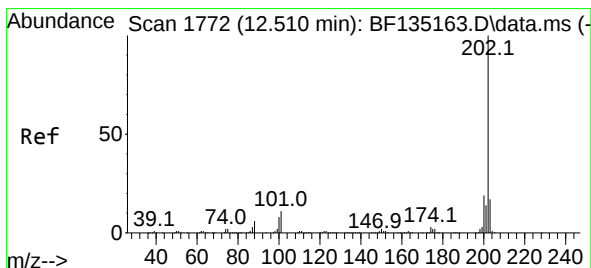
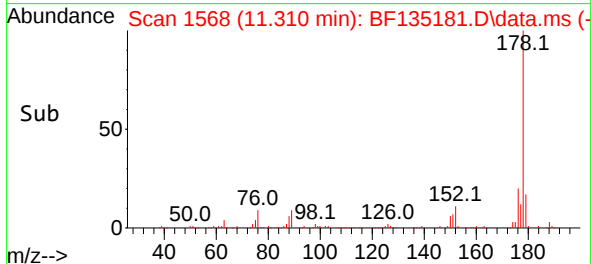
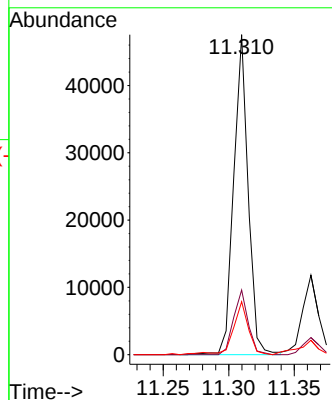
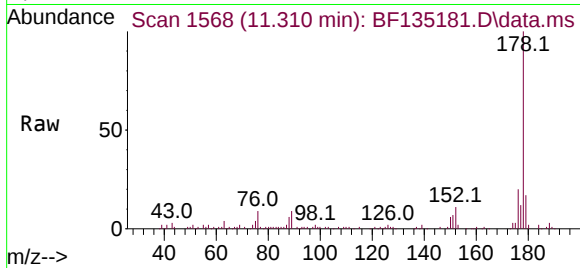




#71
Phenanthrene
Concen: 2.286 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

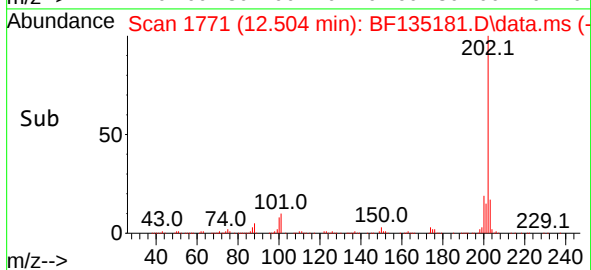
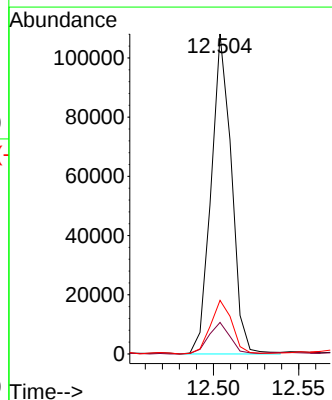
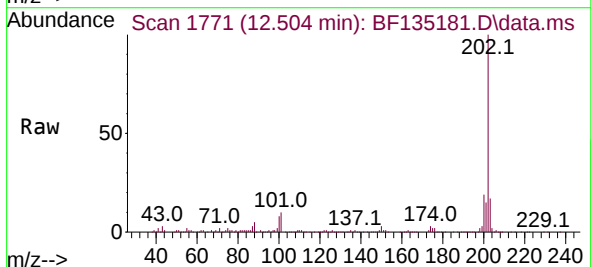
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-OU3-DENALI-2

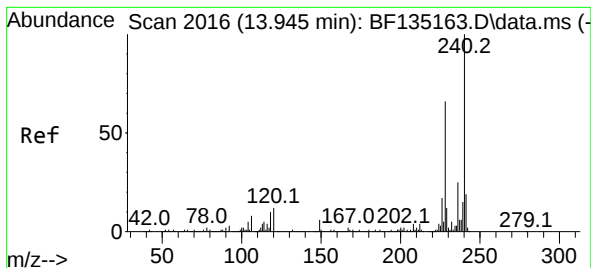
Tgt Ion:178 Resp: 36502
Ion Ratio Lower Upper
178 100
176 20.2 15.6 23.4
179 16.5 12.0 18.0



#75
Fluoranthene
Concen: 5.408 ng
RT: 12.504 min Scan# 1771
Delta R.T. -0.006 min
Lab File: BF135181.D
Acq: 12 Sep 2023 14:50

Tgt Ion:202 Resp: 89971
Ion Ratio Lower Upper
202 100
101 9.8 0.0 31.3
203 16.7 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

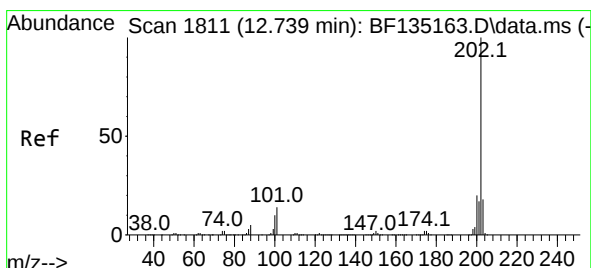
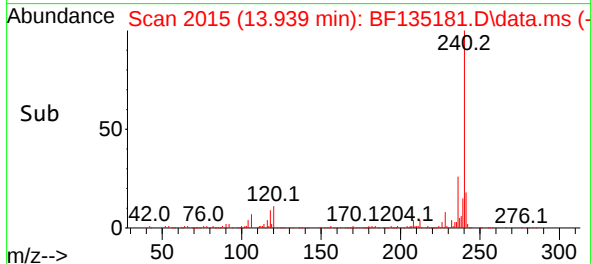
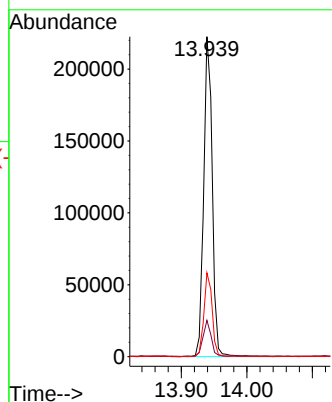
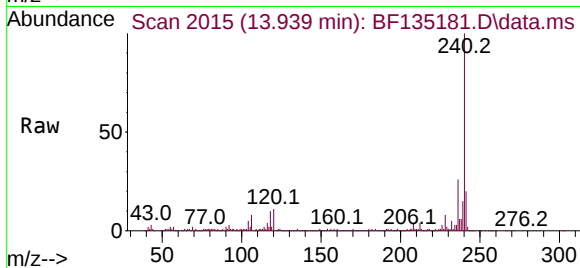
Tgt Ion:240 Resp: 202977

Ion Ratio Lower Upper

240 100

120 11.4 9.4 14.2

236 26.2 19.8 29.8



#78

Pyrene

Concen: 4.416 ng

RT: 12.733 min Scan# 1810

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

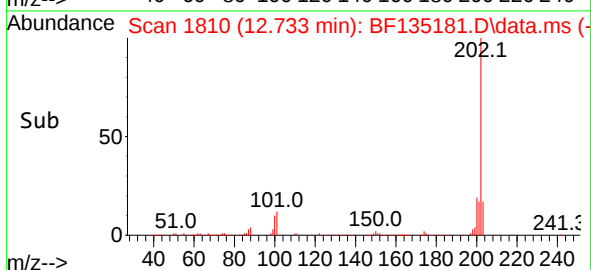
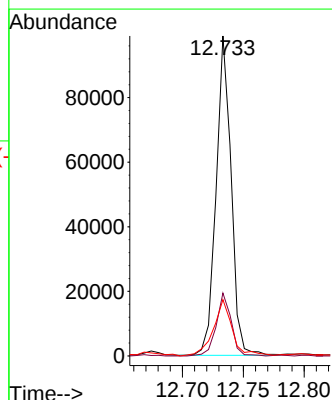
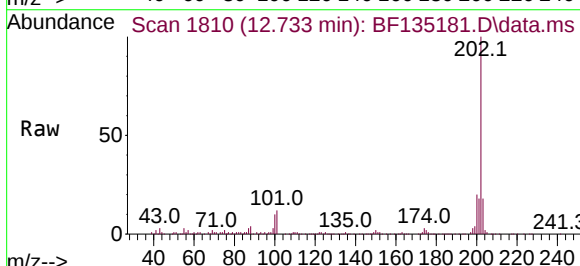
Tgt Ion:202 Resp: 85338

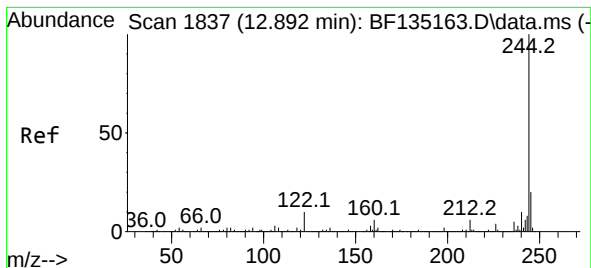
Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

203 17.6 14.2 21.4





#79

Terphenyl-d14

Concen: 45.644 ng

RT: 12.886 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135181.D

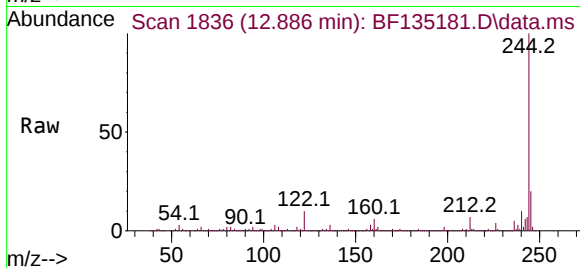
Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2



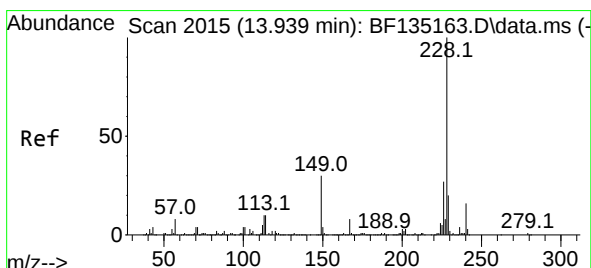
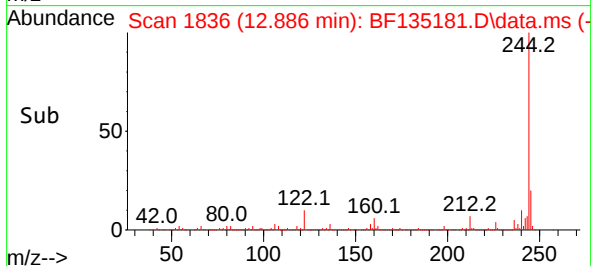
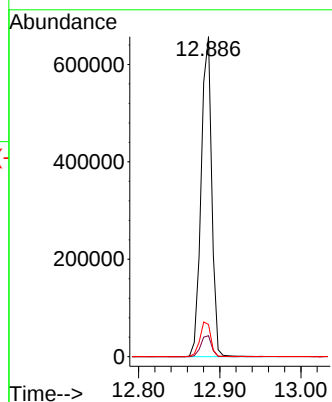
Tgt Ion:244 Resp: 597644

Ion Ratio Lower Upper

244 100

212 6.5 5.1 7.7

122 10.0 7.9 11.9



#81

Benzo(a)anthracene

Concen: 3.778 ng

RT: 13.968 min Scan# 2020

Delta R.T. 0.030 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

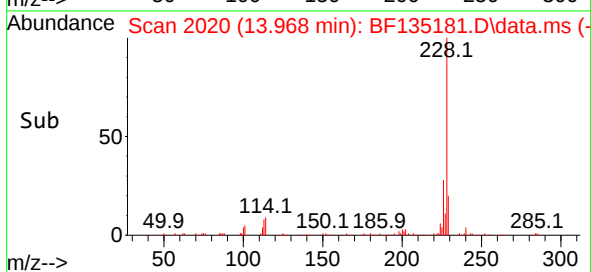
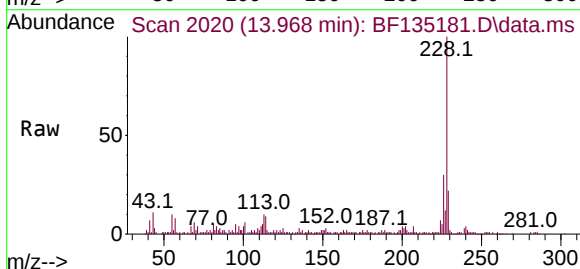
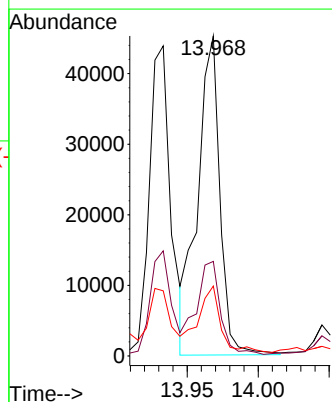
Tgt Ion:228 Resp: 49515

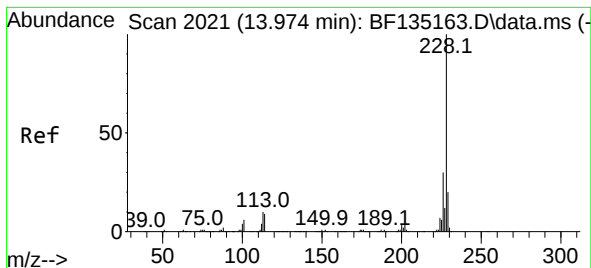
Ion Ratio Lower Upper

228 100

226 29.6 21.7 32.5

229 21.9 15.8 23.8





#83

Chrysene

Concen: 3.800 ng

RT: 13.968 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

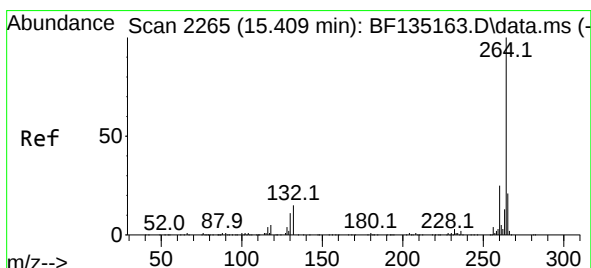
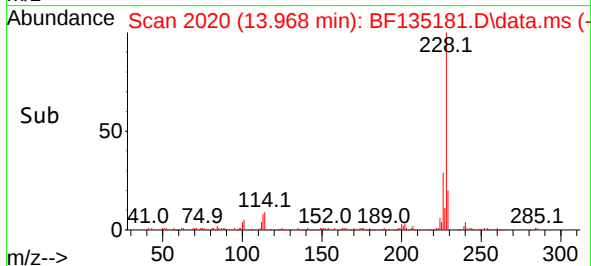
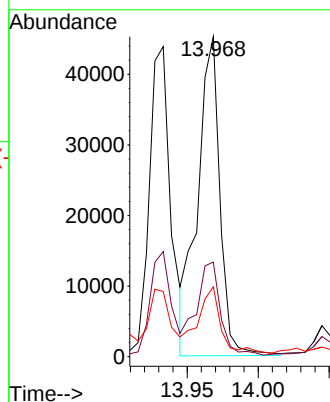
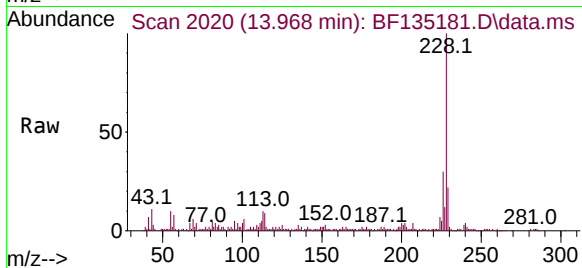
Tgt Ion:228 Resp: 49515

Ion Ratio Lower Upper

228 100

226 29.6 24.3 36.5

229 21.9 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

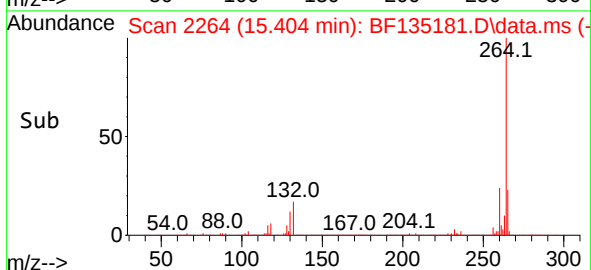
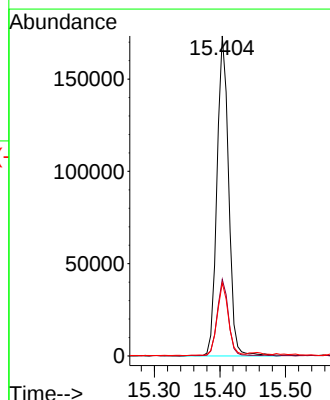
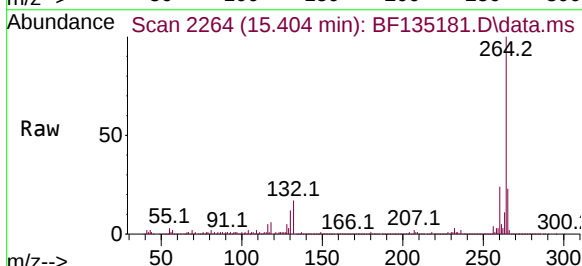
Tgt Ion:264 Resp: 213865

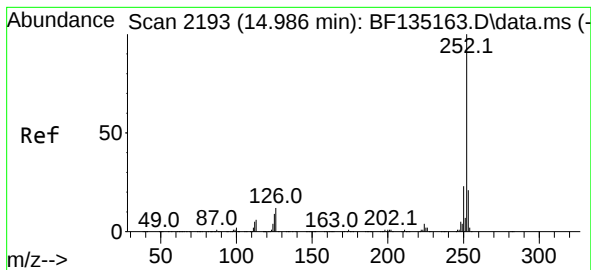
Ion Ratio Lower Upper

264 100

260 23.9 19.8 29.6

265 22.8 17.0 25.4





#88

Benzo(b)fluoranthene

Concen: 7.691 ng

RT: 14.980 min Scan# 2193

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

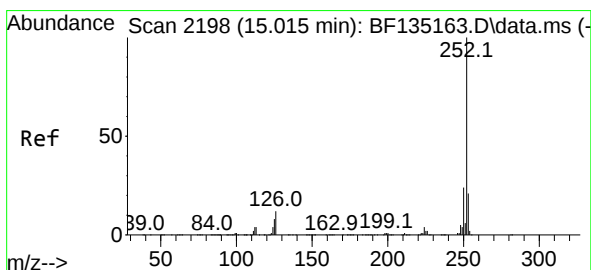
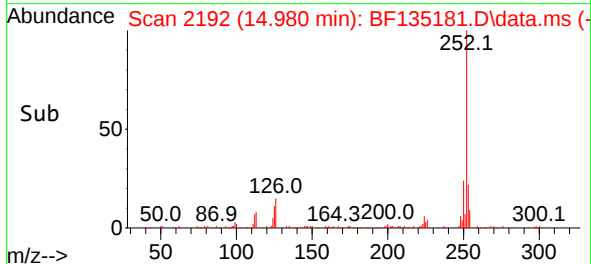
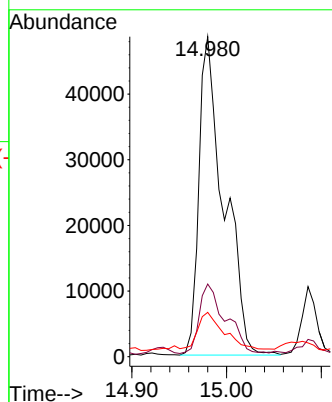
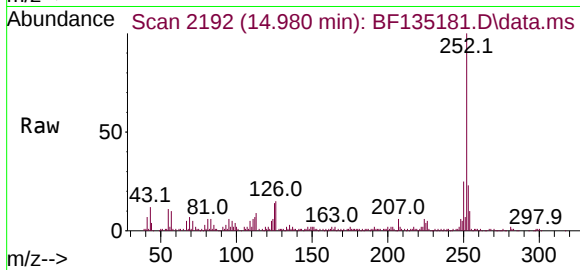
Tgt Ion:252 Resp: 89040

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

125 13.8 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 7.759 ng

RT: 14.980 min Scan# 2192

Delta R.T. -0.035 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

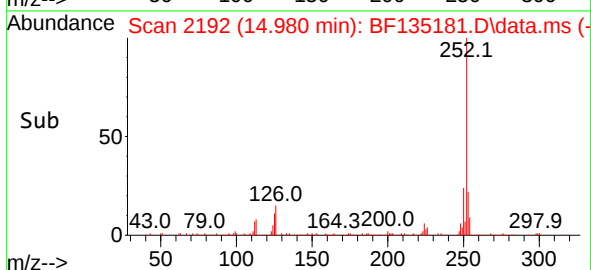
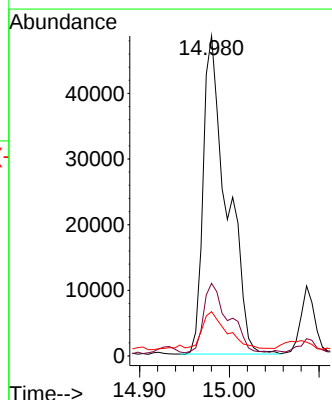
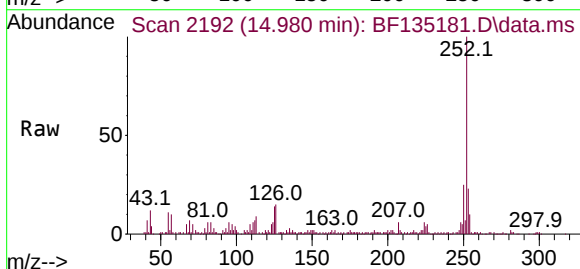
Tgt Ion:252 Resp: 88739

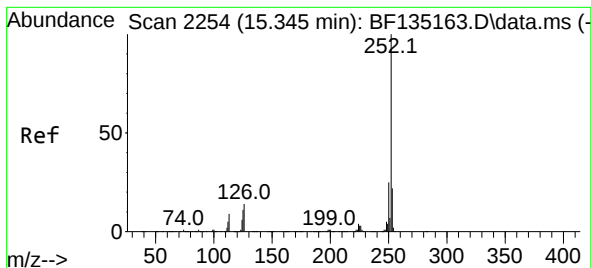
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 13.8 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 4.009 ng

RT: 15.339 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-OU3-DENALI-2

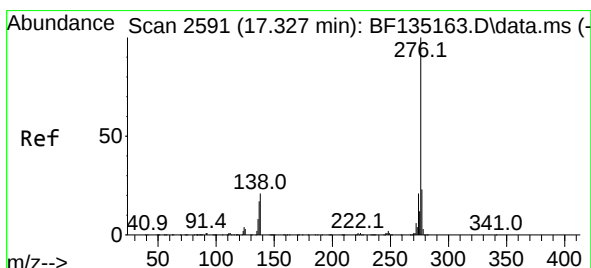
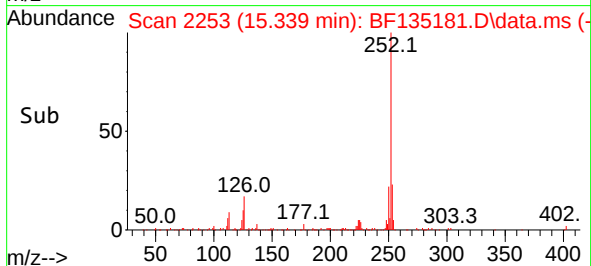
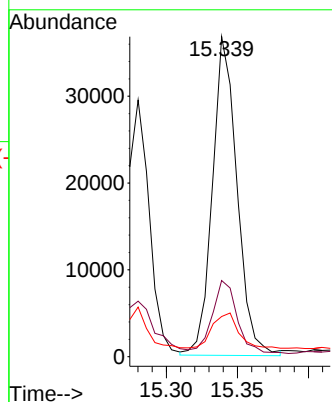
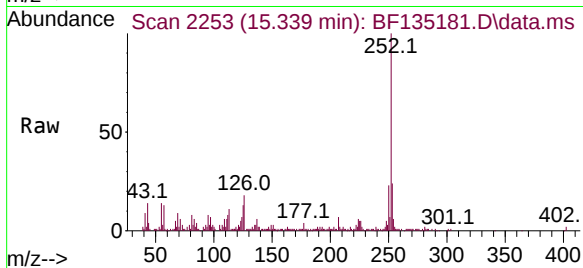
Tgt Ion:252 Resp: 44259

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

125 12.5 9.2 13.8



#92

Benzo(g,h,i)perylene

Concen: 2.272 ng

RT: 17.315 min Scan# 2589

Delta R.T. -0.012 min

Lab File: BF135181.D

Acq: 12 Sep 2023 14:50

Tgt Ion:276 Resp: 27226

Ion Ratio Lower Upper

276 100

277 23.1 18.8 28.2

138 21.6 16.9 25.3

