

Data File : BF116336.D
Acq On : 16 Aug 2019 23:46
Operator : HP/JU
Sample : K4372-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

Quant Time: Aug 17 05:11:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 07 11:13:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	160556	20.00	ng	-0.03
21) Naphthalene-d8	8.10	136	613830	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	308898	20.00	ng	-0.04
64) Phenanthrene-d10	11.34	188	480518	20.00	ng	-0.03
76) Chrysene-d12	13.98	240	305389	20.00	ng	-0.03
87) Perylene-d12	15.44	264	332708	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	886043	92.38	ng	-0.02
7) Phenol-d6	6.46	99	1137020	93.96	ng	-0.03
23) Nitrobenzene-d5	7.38	82	722417	67.93	ng	-0.04
42) 2,4,6-Tribromophenol	10.64	330	253530	84.66	ng	-0.04
45) 2-Fluorobiphenyl	9.17	172	929536	56.36	ng	-0.04
79) Terphenyl-d14	12.92	244	690660	47.66	ng	-0.04

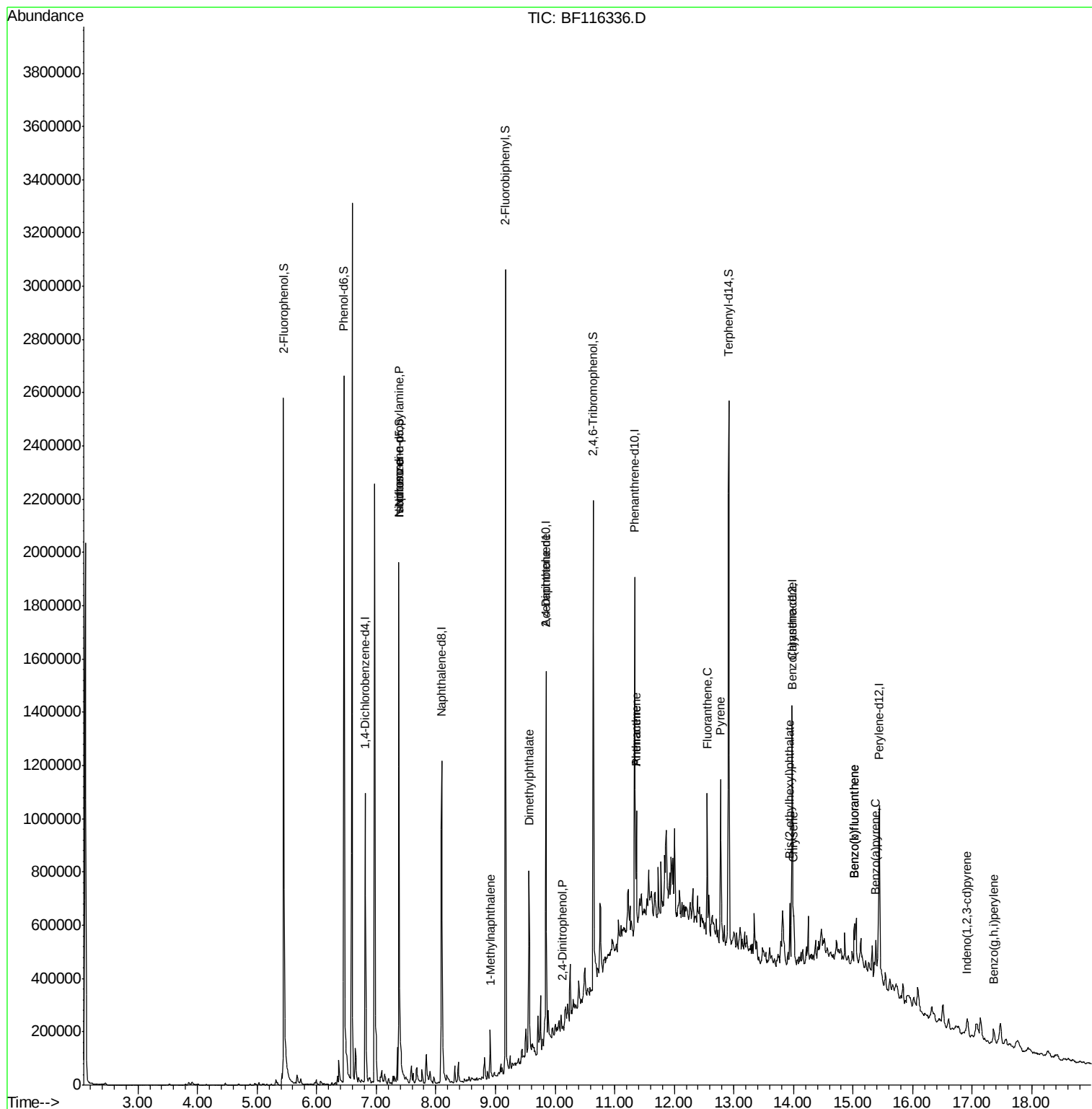
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.38	70	96810	12.911	ng	# 79
25) Isophorone	7.38	82	722461	35.530	ng	# 65
38) 1-Methylnaphthalene	8.91	142	49288	2.739	ng	# 99
50) Dimethylphthalate	9.56	163	267569	12.722	ng	100
54) 2,4-Dinitrophenol	10.13	184	111	7.856	ng	# 18
57) 2,4-Dinitrotoluene	9.85	165	41842	6.876	ng	# 21
71) Phenanthrene	11.36	178	177322	7.218	ng	98
72) Anthracene	11.36	178	177322	7.133	ng	100
75) Fluoranthene	12.55	202	202586	7.877	ng	98
78) Pyrene	12.78	202	235698	10.239	ng	99
81) Benzo(a)anthracene	13.97	228	89165	4.568	ng	97
83) Chrysene	14.00	228	84102	4.438	ng	97
84) Bis(2-ethylhexyl)phthalate	13.94	149	64542	5.100	ng	100
86) Indeno(1,2,3-cd)pyrene	16.92	276	44808	2.815	ng	93
88) Benzo(b)fluoranthene	15.02	252	116057	6.033	ng	# 91
89) Benzo(k)fluoranthene	15.02	252	116057	6.194	ng	# 91
90) Benzo(a)pyrene	15.39	252	70326	4.089	ng	# 94
92) Benzo(g,h,i)perylene	17.36	276	48349	3.307	ng	# 90

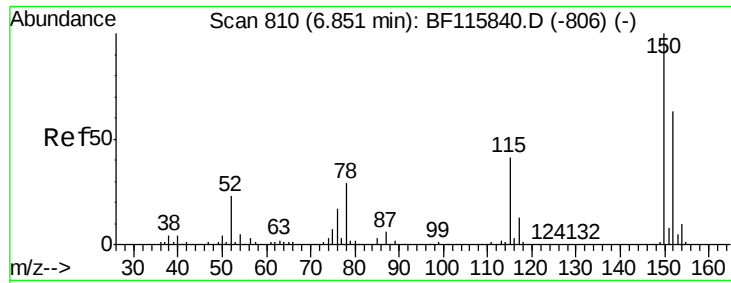
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.82 min Scan# 804

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

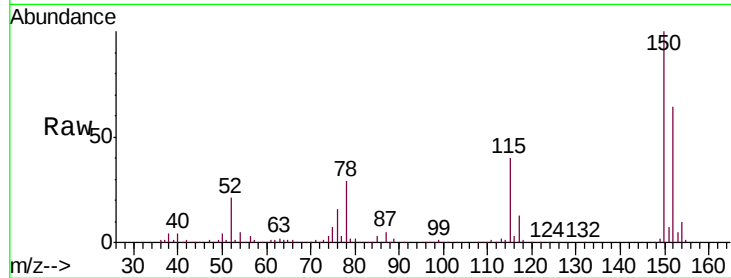
Tgt Ion:152 Resp: 160556

Ion Ratio Lower Upper

152 100

150 156.3 126.2 189.2

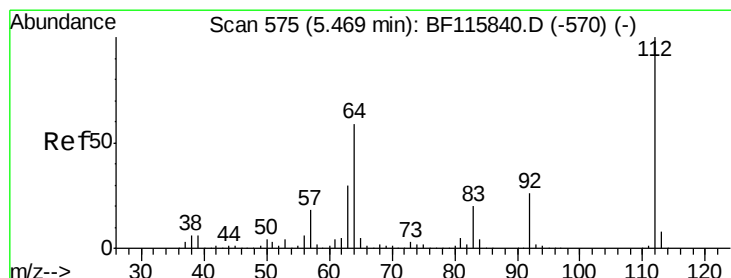
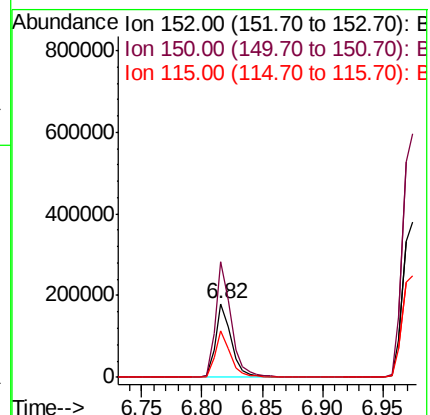
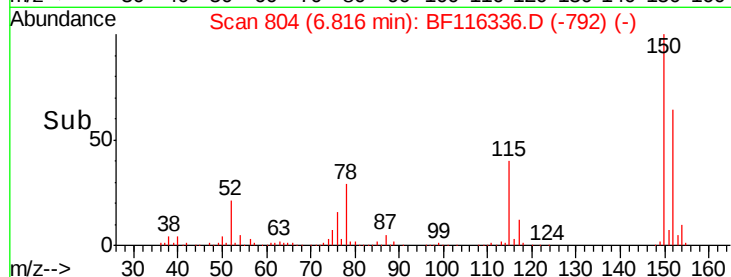
115 62.1 49.9 74.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 92.385 ng

RT: 5.45 min Scan# 571

Delta R.T. -0.02 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

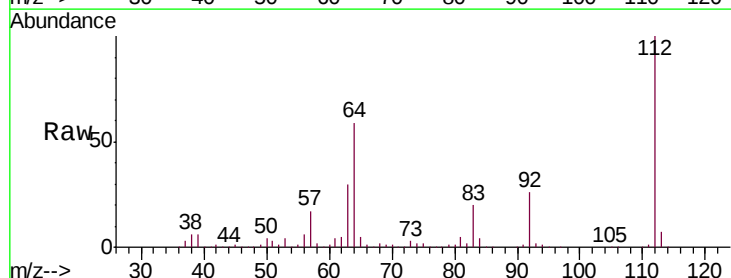
Tgt Ion:112 Resp: 886043

Ion Ratio Lower Upper

112 100

64 58.7 45.4 68.2

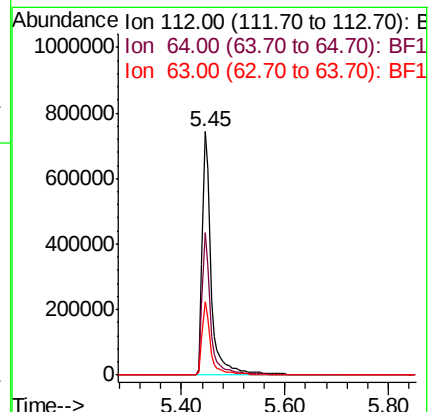
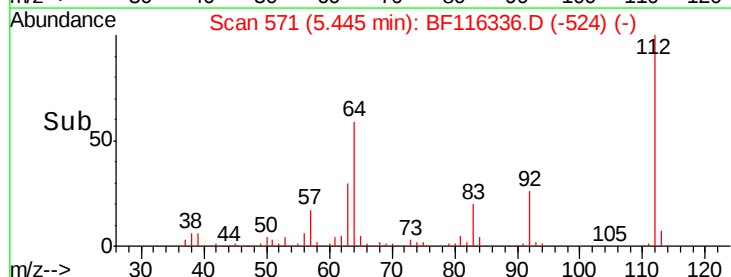
63 30.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 93.965 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

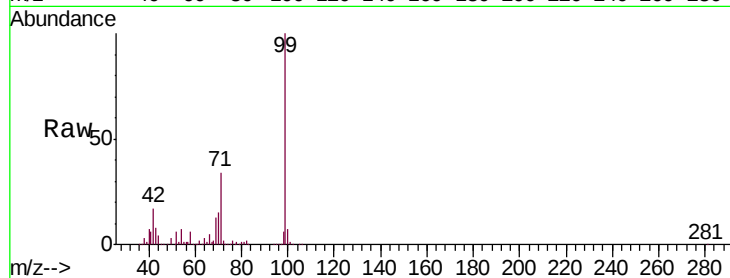
Tgt Ion: 99 Resp: 1137020

Ion Ratio Lower Upper

99 100

42 17.1 13.8 20.8

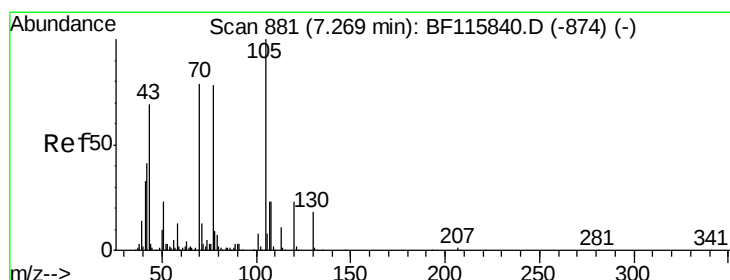
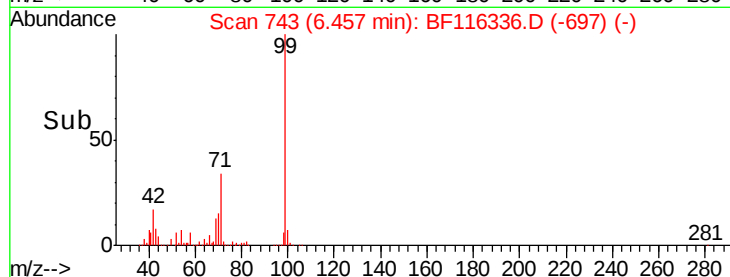
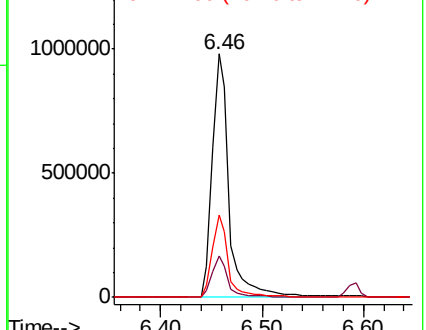
71 33.6 27.3 40.9



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 12.911 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.11 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Tgt Ion: 70 Resp: 96810

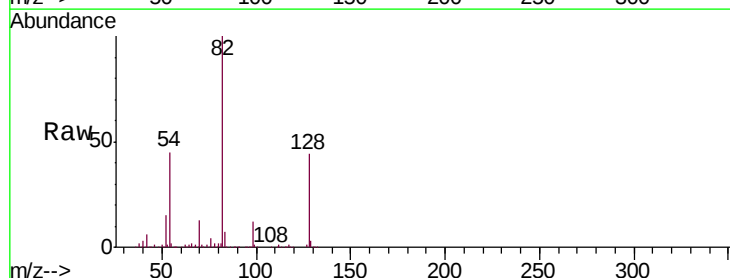
Ion Ratio Lower Upper

70 100

42 42.8 40.9 61.3

101 0.0 7.9 11.9#

130 2.2 16.9 25.3#

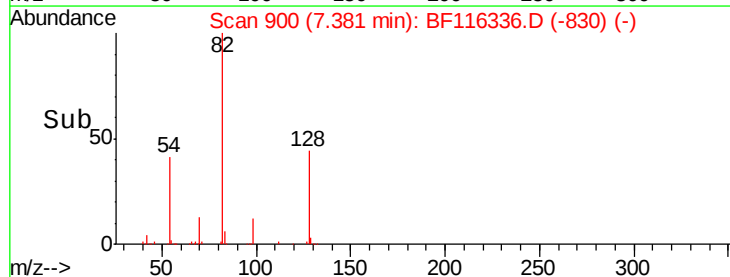
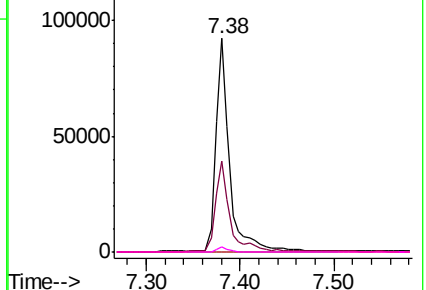


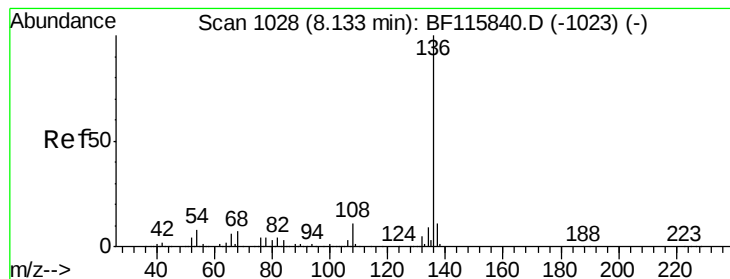
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

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SOIL-COMPOSITE

Tgt Ion:136 Resp: 613830

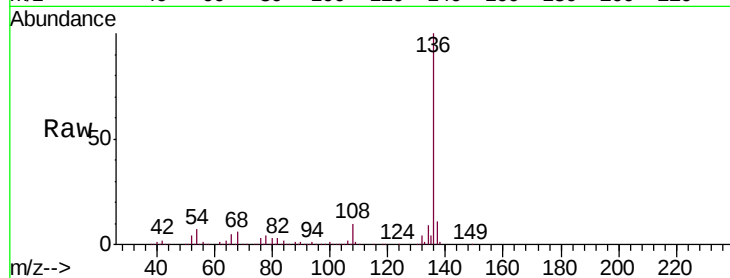
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 6.7 5.8 8.6

68 6.1 5.2 7.8

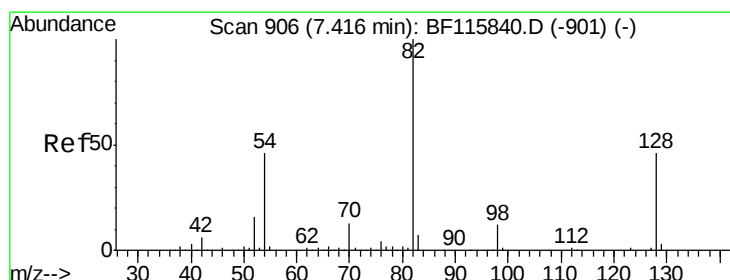
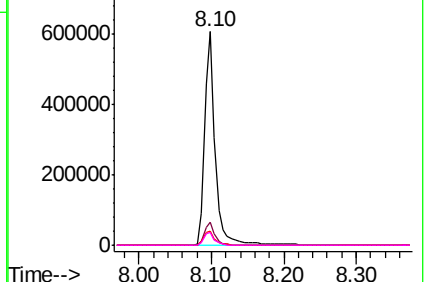
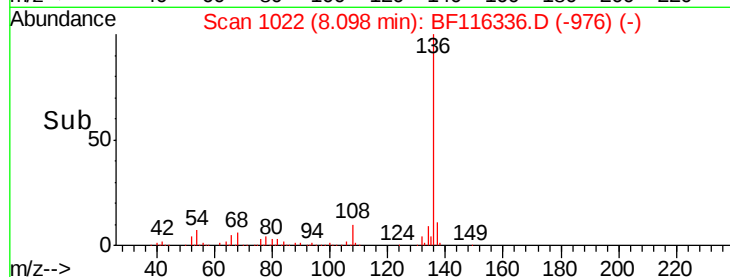


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 67.934 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

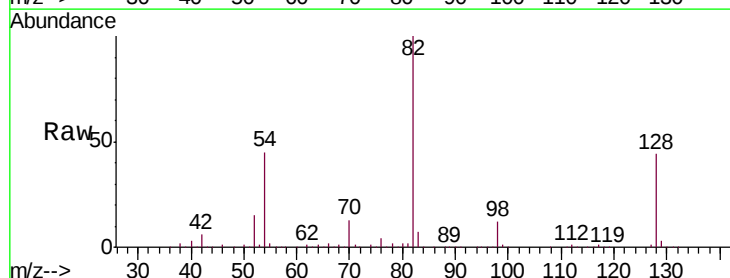
Tgt Ion: 82 Resp: 722417

Ion Ratio Lower Upper

82 100

128 44.4 36.5 54.7

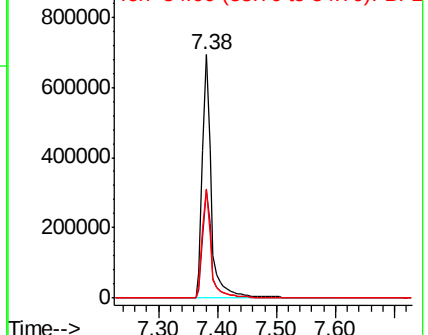
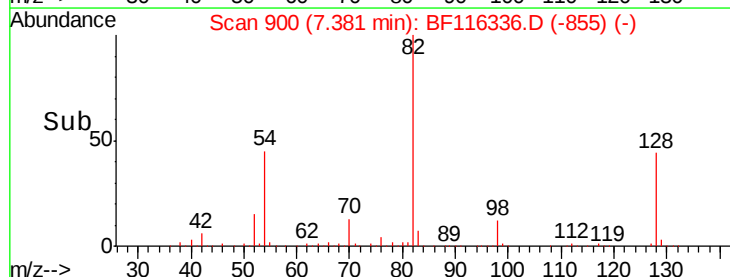
54 44.8 36.0 54.0

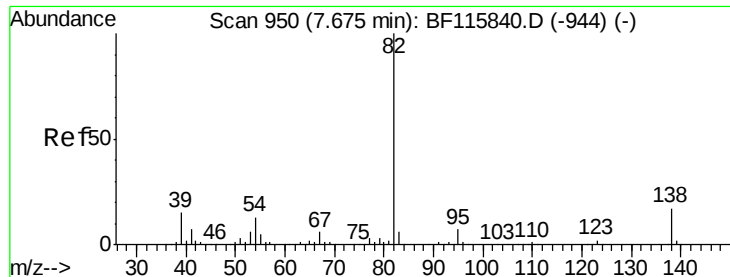


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.530 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.29 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

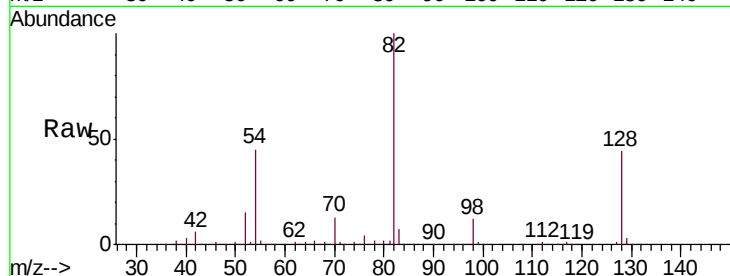
Tgt Ion: 82 Resp: 722461

Ion Ratio Lower Upper

82 100

95 0.1 5.4 8.0#

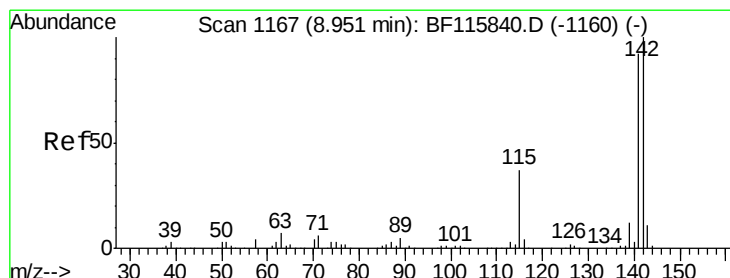
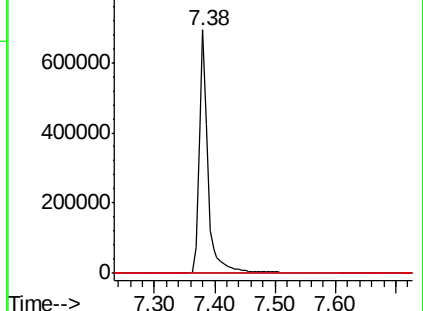
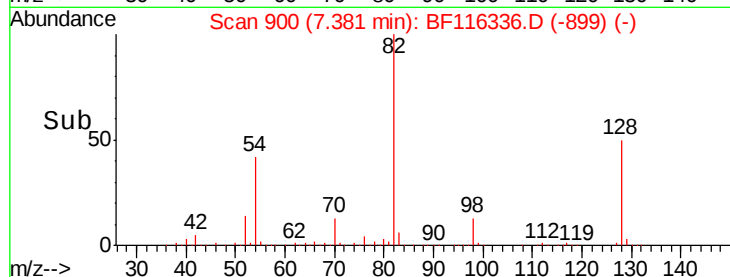
138 0.0 14.5 21.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

1-Methylnaphthalene

Concen: 2.739 ng

RT: 8.91 min Scan# 1160

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

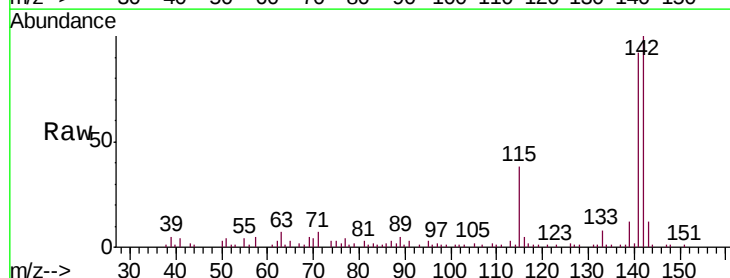
Tgt Ion: 142 Resp: 49288

Ion Ratio Lower Upper

142 100

141 92.3 74.4 111.6

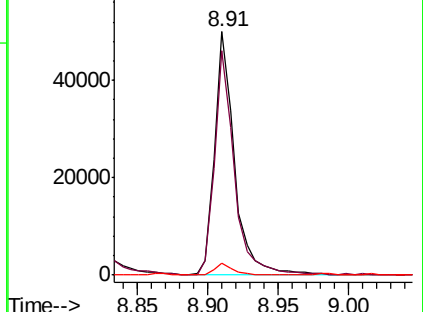
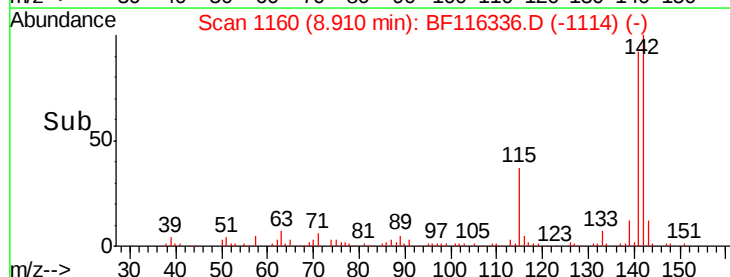
116 4.8 3.1 4.7#

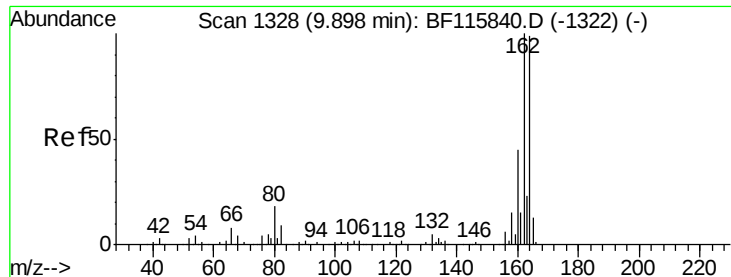


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

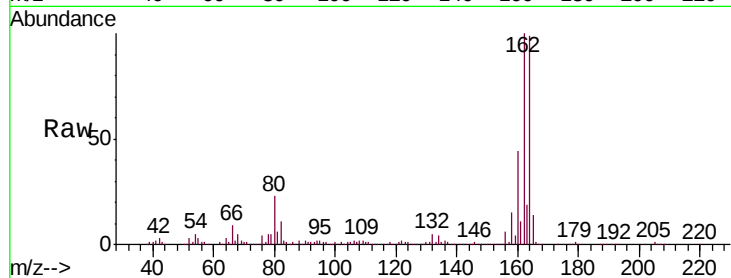




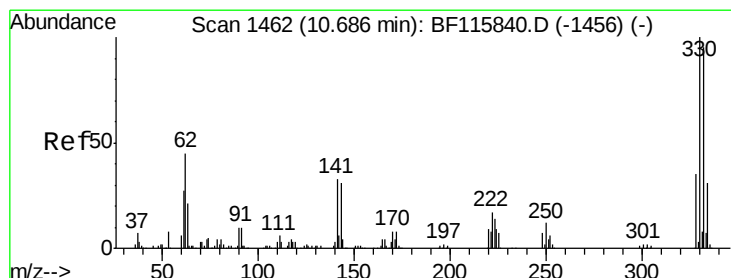
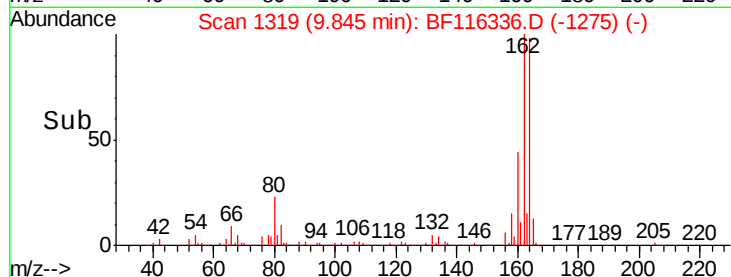
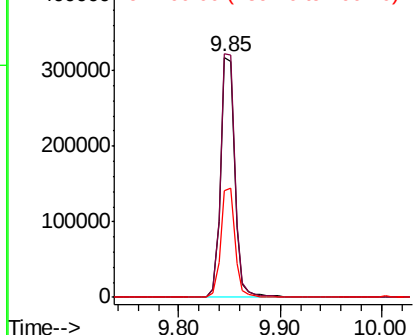
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
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Tgt Ion:164 Resp: 308898
Ion Ratio Lower Upper
164 100
162 101.5 82.6 124.0
160 44.6 37.6 56.4

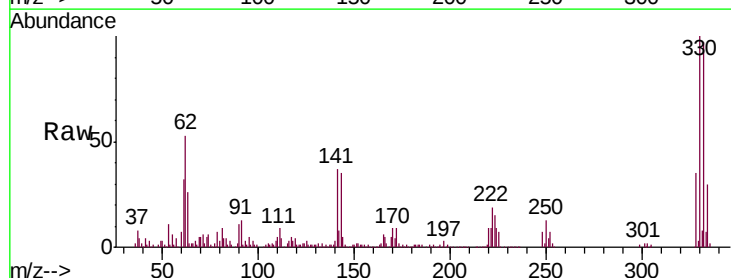


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

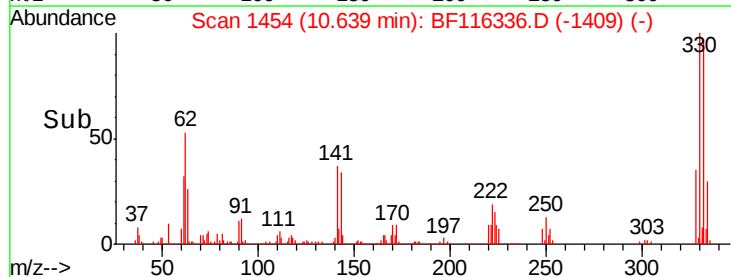
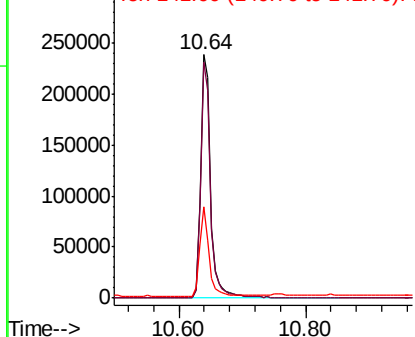


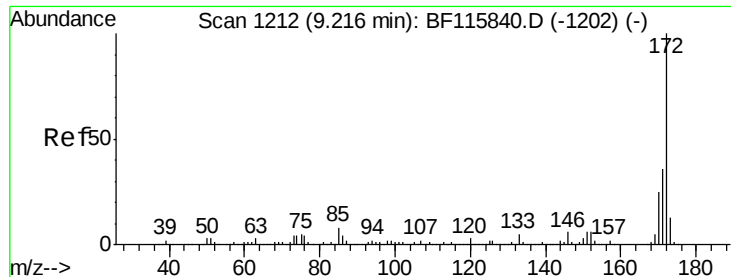
#42
2,4,6-Tribromophenol
Concen: 84.655 ng
RT: 10.64 min Scan# 1454
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion:330 Resp: 253530
Ion Ratio Lower Upper
330 100
332 95.6 76.8 115.2
141 34.8 26.3 39.5



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

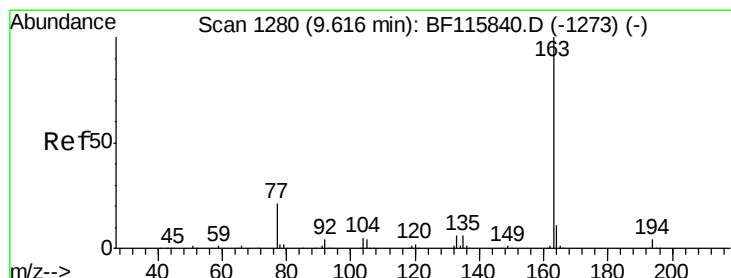
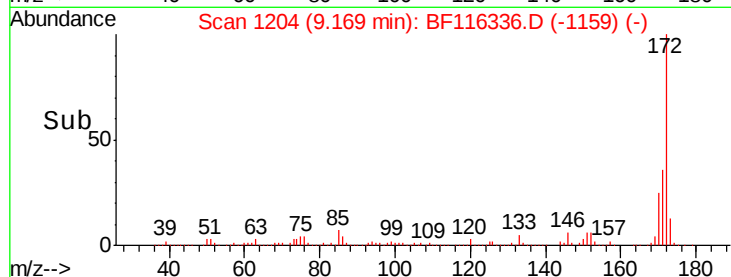
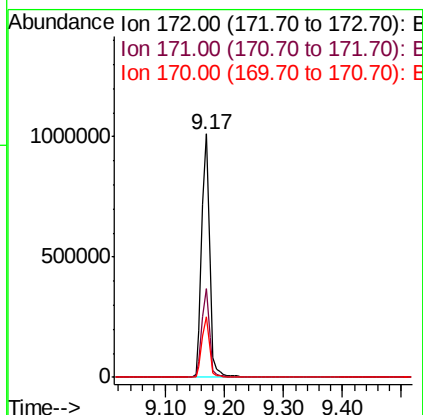
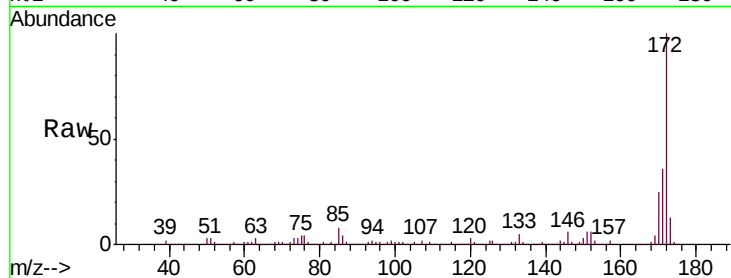




#45
2-Fluorobiphenyl
Concen: 56.365 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

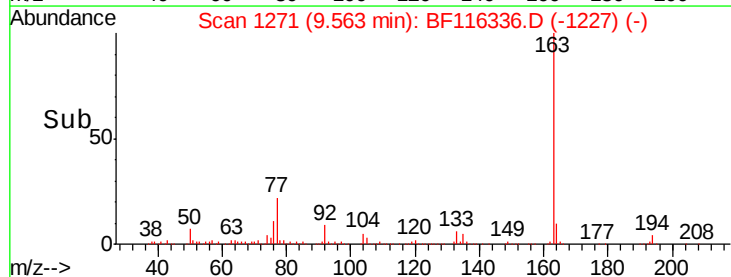
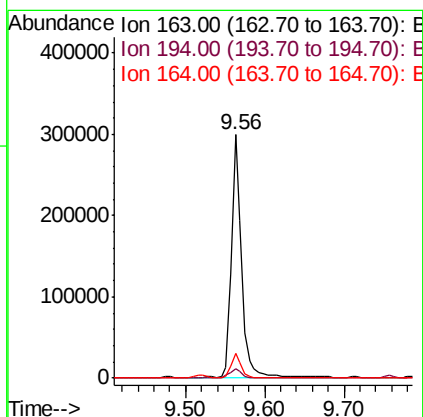
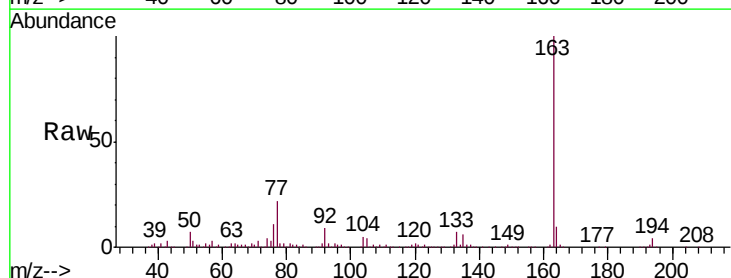
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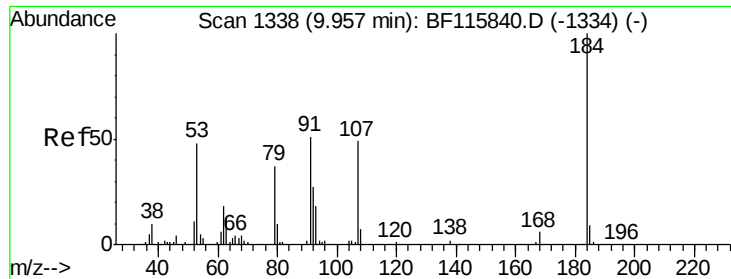
Tgt Ion:172 Resp: 929536
Ion Ratio Lower Upper
172 100
171 36.3 29.6 44.4
170 24.8 20.1 30.1



#50
Dimethylphthalate
Concen: 12.722 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion:163 Resp: 267569
Ion Ratio Lower Upper
163 100
194 3.9 3.0 4.6
164 10.4 8.4 12.6

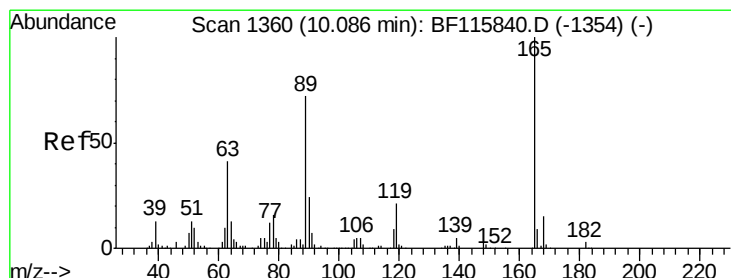
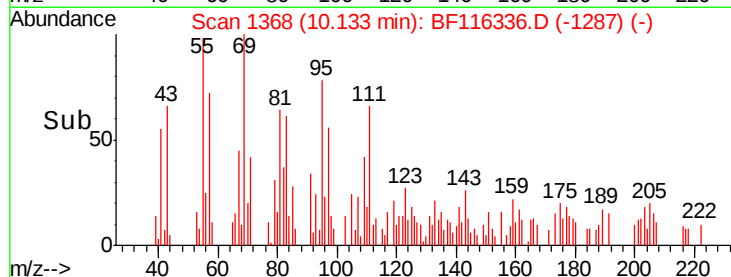
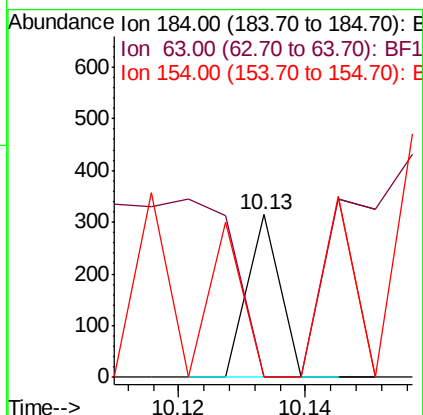
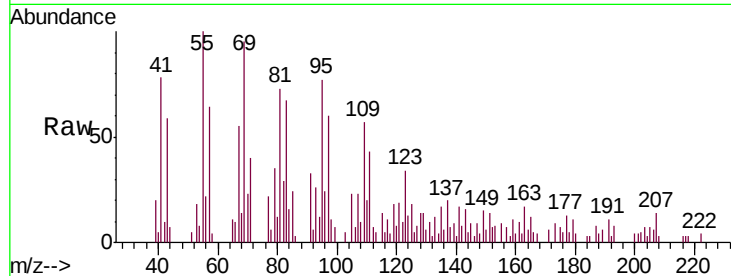




#54
 2,4-Dinitrophenol
 Concen: 7.856 ng
 RT: 10.13 min Scan# 1368
 Delta R.T. 0.18 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

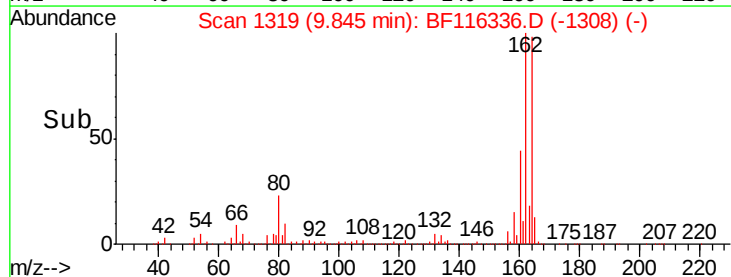
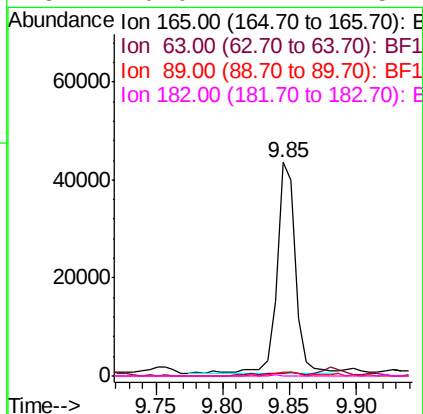
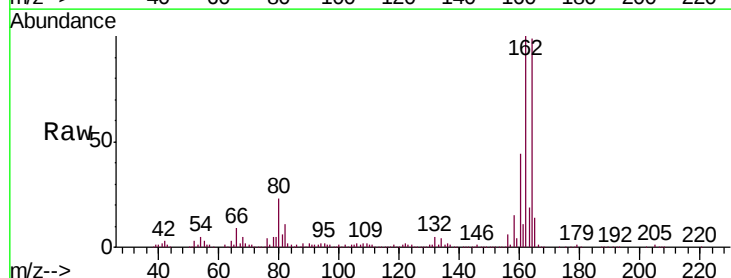
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

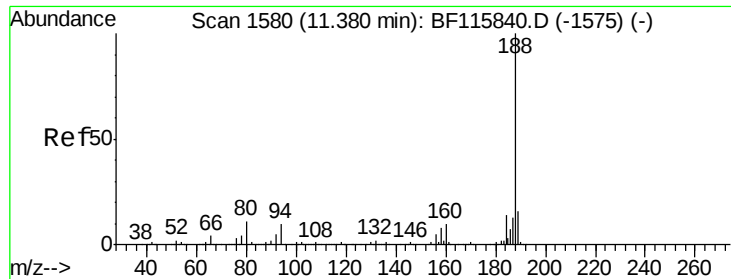
Tgt Ion:184 Resp: 111
 Ion Ratio Lower Upper
 184 100
 63 0.0 53.0 79.4#
 154 0.0 50.1 75.1#



#57
 2,4-Dinitrotoluene
 Concen: 6.876 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.24 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Tgt Ion:165 Resp: 41842
 Ion Ratio Lower Upper
 165 100
 63 1.5 39.6 59.4#
 89 1.8 62.2 93.2#
 182 0.0 2.1 3.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.03 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

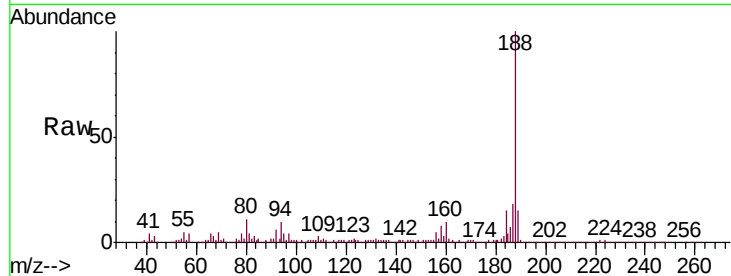
Tgt Ion:188 Resp: 480518

Ion Ratio Lower Upper

188 100

94 10.0 8.1 12.1

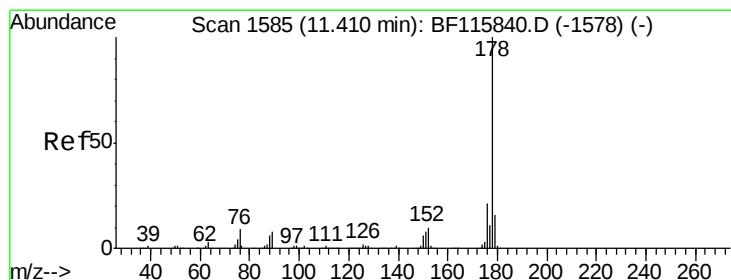
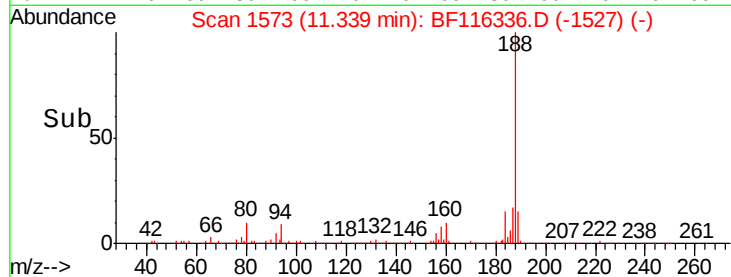
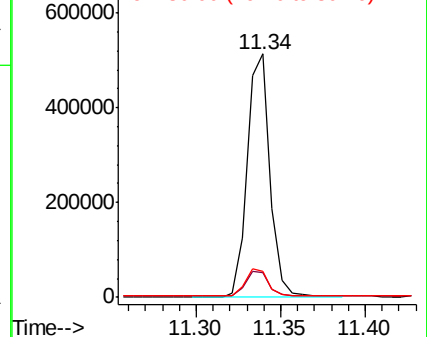
80 10.5 8.7 13.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 7.218 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

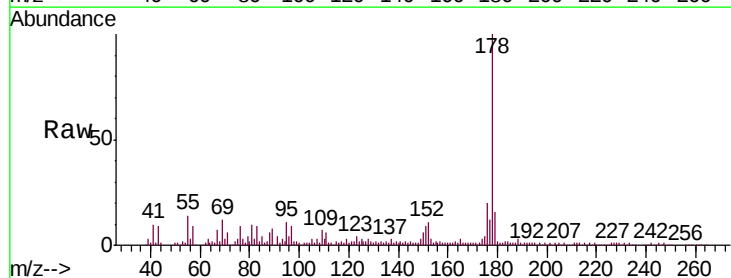
Tgt Ion:178 Resp: 177322

Ion Ratio Lower Upper

178 100

176 19.5 16.6 24.8

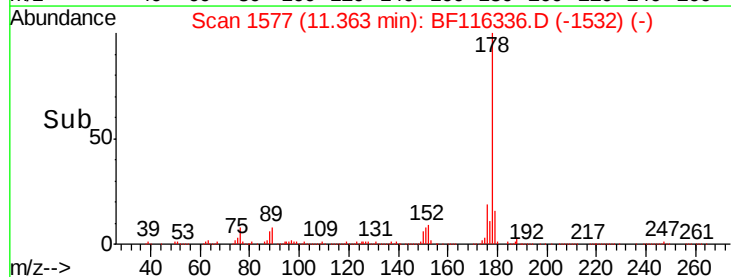
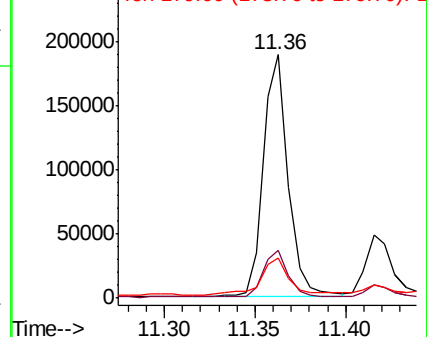
179 16.5 12.5 18.7

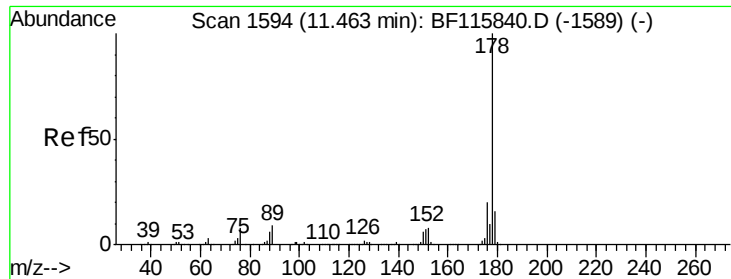


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.133 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.08 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

Instrument :

BNA_F

ClientSampleId :

SOIL-COMPOSITE

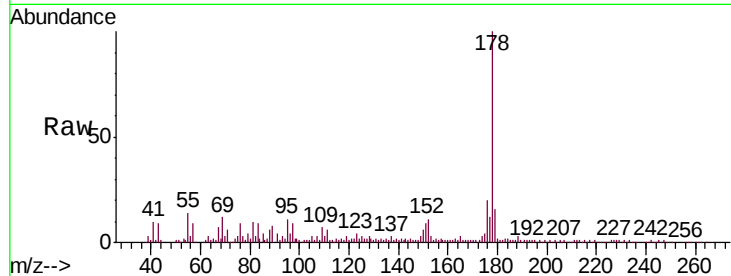
Tgt Ion:178 Resp: 177322

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

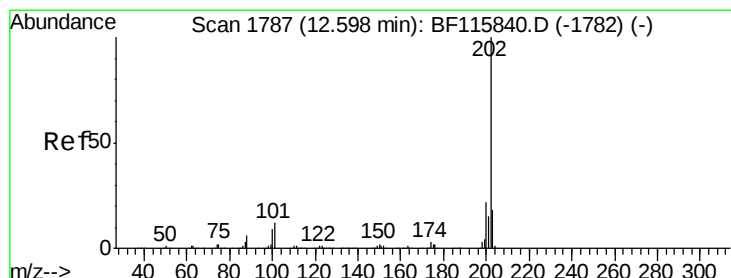
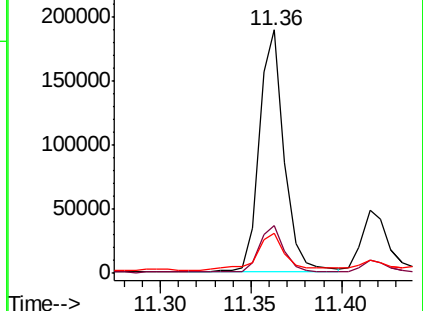
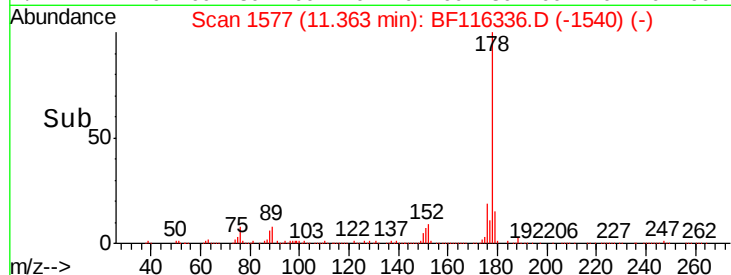
179 16.5 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 7.877 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.04 min

Lab File: BF116336.D

Acq: 16 Aug 2019 23:46

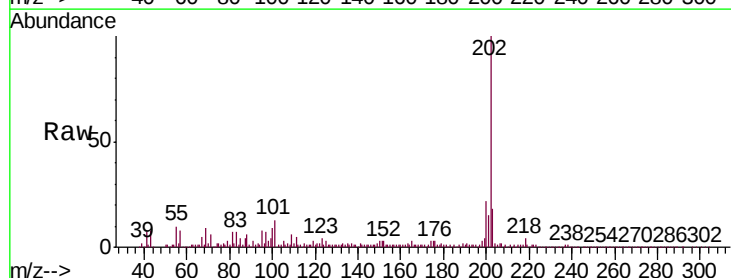
Tgt Ion:202 Resp: 202586

Ion Ratio Lower Upper

202 100

101 13.2 0.0 31.2

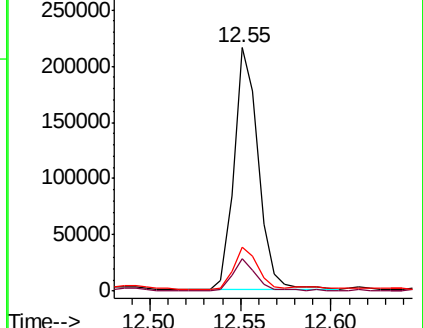
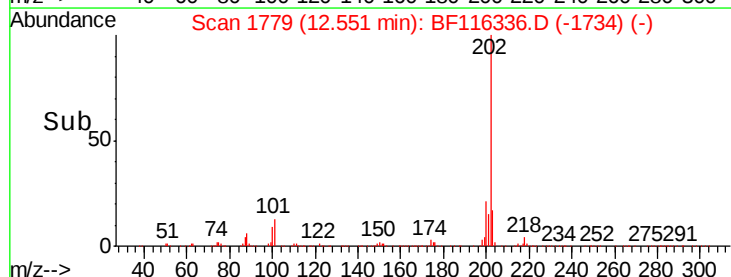
203 17.9 0.0 37.8

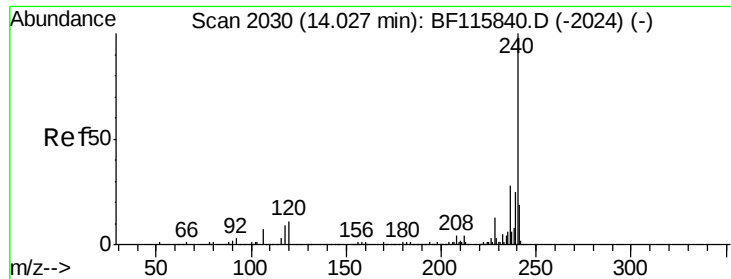


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

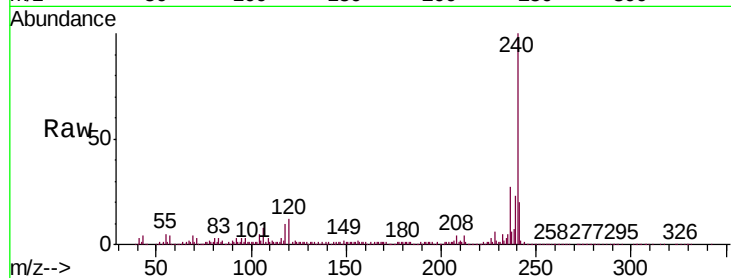




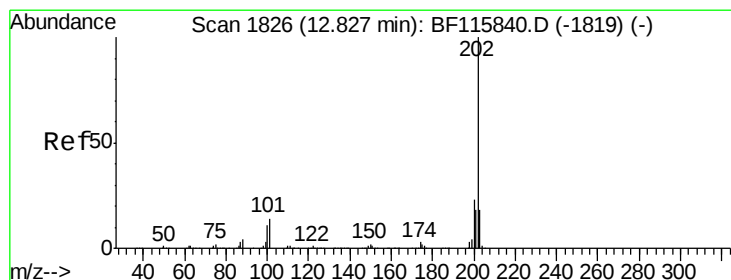
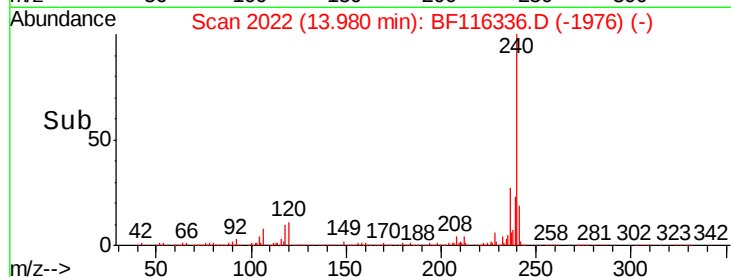
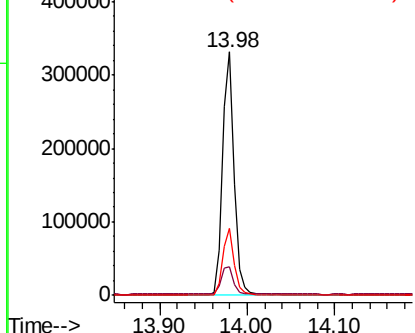
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.03 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

Tgt Ion:240 Resp: 305389
Ion Ratio Lower Upper
240 100
120 11.5 10.7 16.1
236 27.3 22.2 33.2

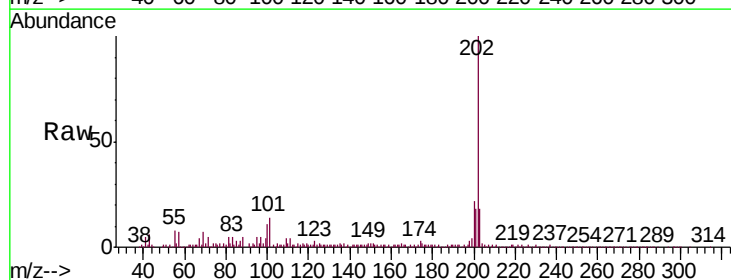


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

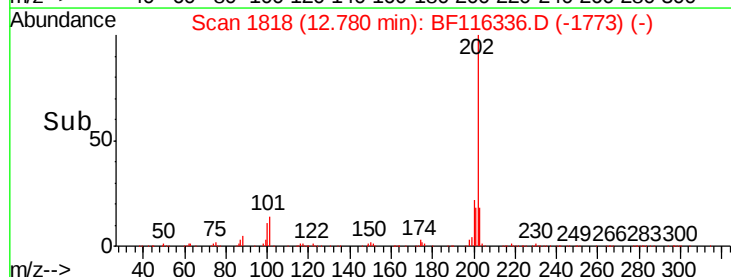
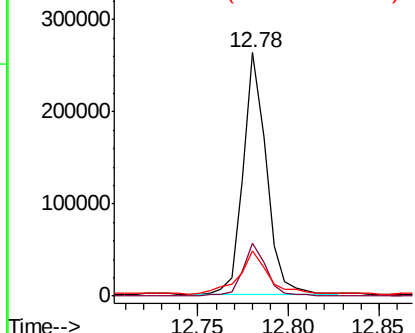


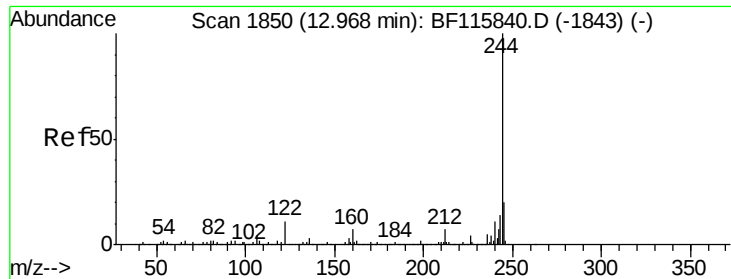
#78
Pyrene
Concen: 10.239 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion:202 Resp: 235698
Ion Ratio Lower Upper
202 100
200 22.0 18.0 27.0
203 18.5 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

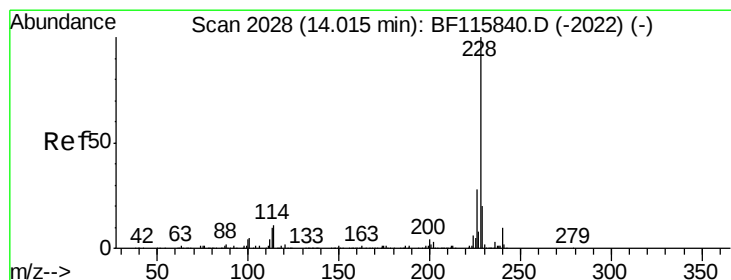
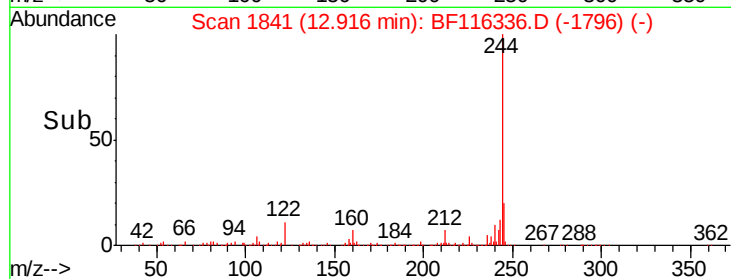
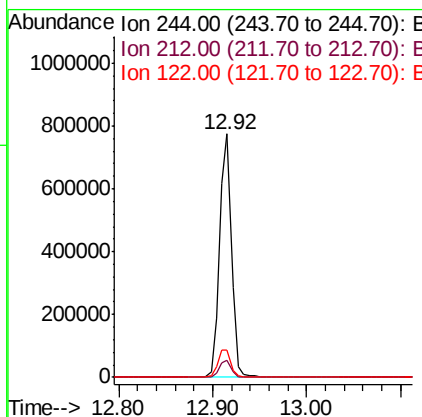
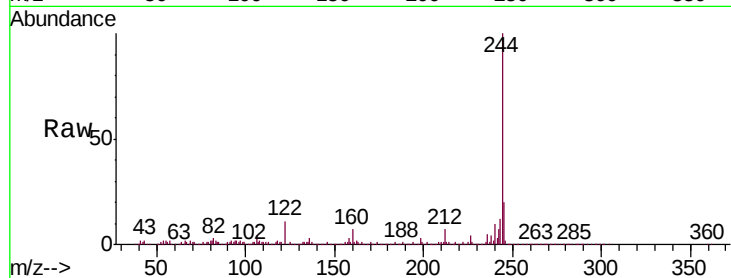




#79
 Terphenyl-d14
 Concen: 47.655 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

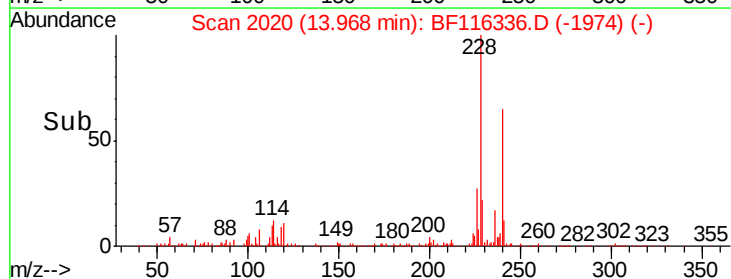
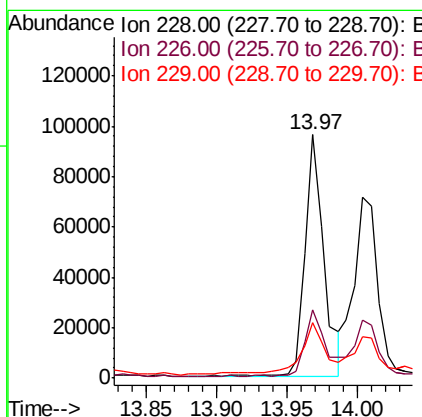
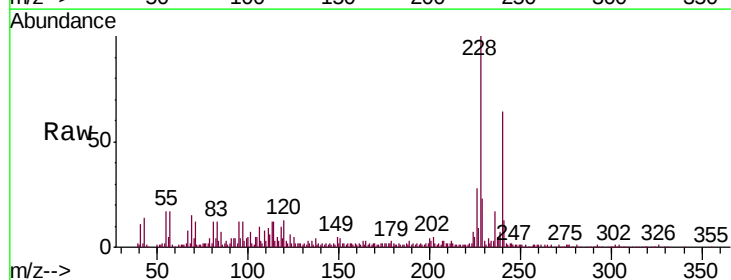
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

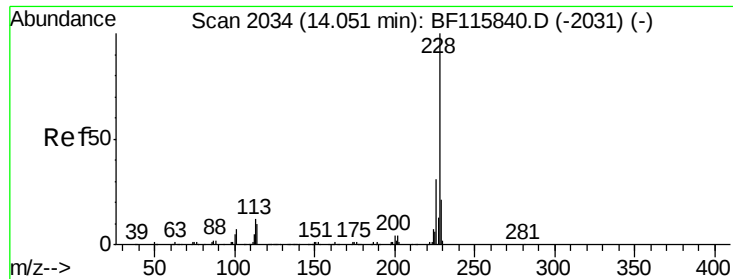
Tgt Ion:244 Resp: 690660
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.8
 122 11.2 9.0 13.4



#81
 Benzo(a)anthracene
 Concen: 4.568 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.03 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Tgt Ion:228 Resp: 89165
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.7 34.1
 229 22.7 16.2 24.4

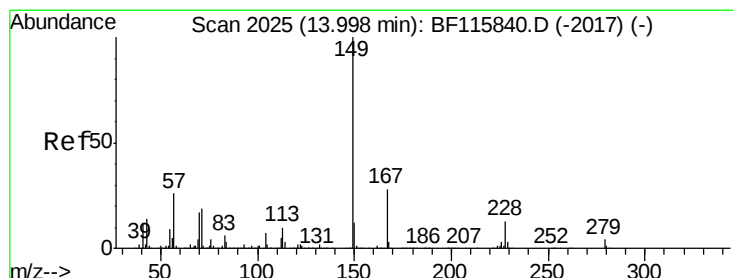
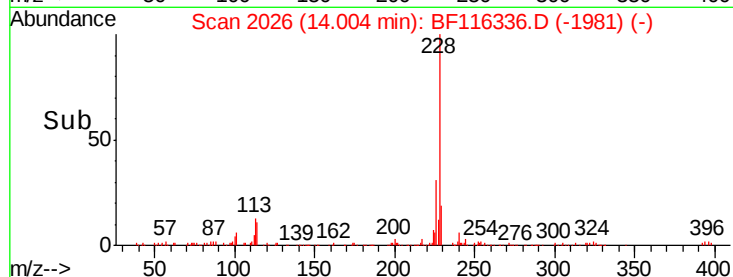
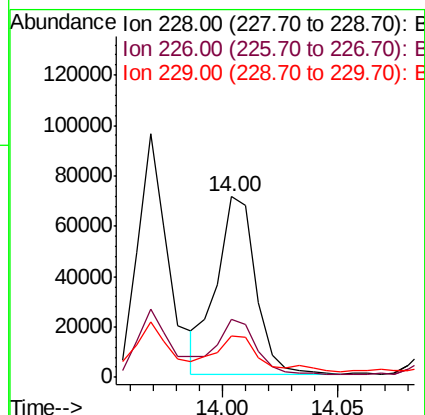
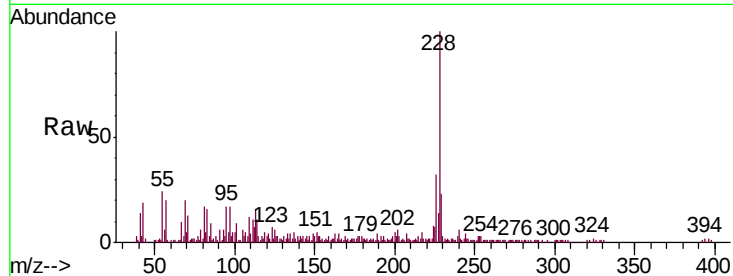




#83
Chrysene
Concen: 4.438 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

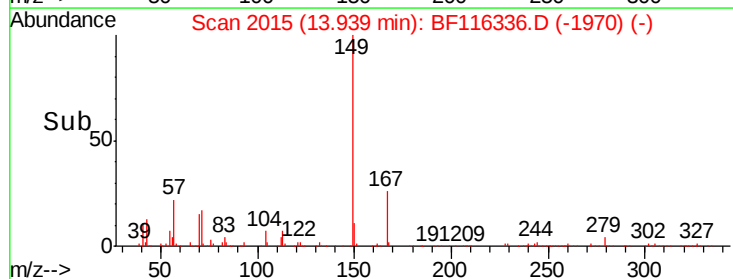
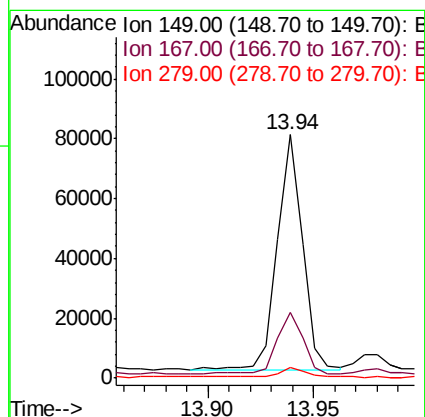
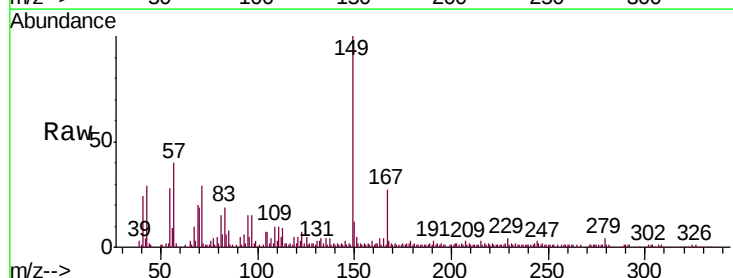
Instrument :
BNA_F
ClientSampleId :
SOIL-COMPOSITE

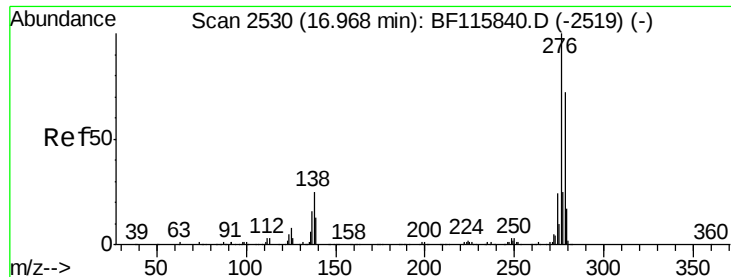
Tgt Ion:228 Resp: 84102
Ion Ratio Lower Upper
228 100
226 32.4 25.5 38.3
229 23.0 16.6 24.8



#84
Bis(2-ethylhexyl)phthalate
Concen: 5.100 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.04 min
Lab File: BF116336.D
Acq: 16 Aug 2019 23:46

Tgt Ion:149 Resp: 64542
Ion Ratio Lower Upper
149 100
167 27.1 21.6 32.4
279 4.2 3.0 4.4

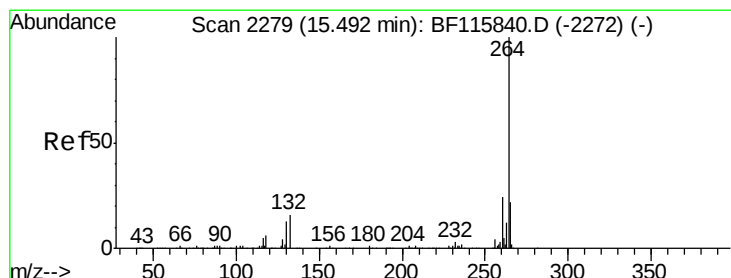
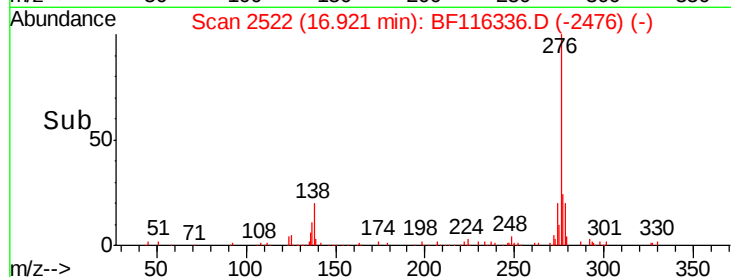
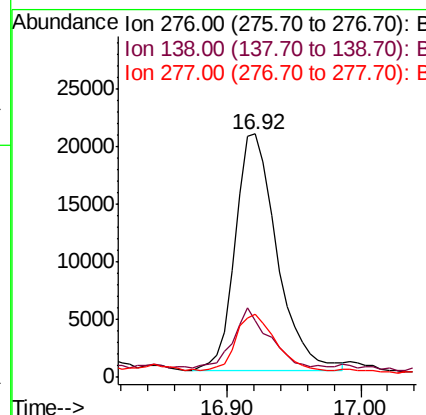
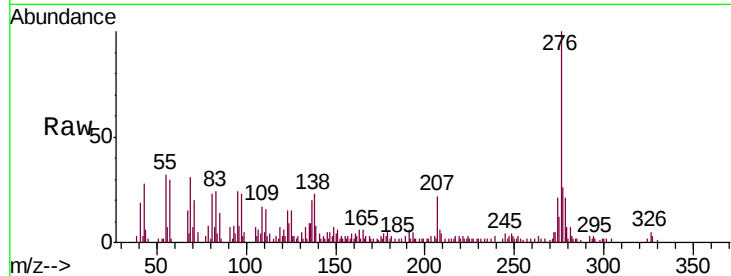




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.815 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. -0.03 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-COMPOSITE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	20.4	30.6
277	22.4	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2270
 Delta R.T. -0.04 min
 Lab File: BF116336.D
 Acq: 16 Aug 2019 23:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.7	29.5
265	21.8	17.4	26.0

