

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114536.D
 Acq On : 23 May 2019 21:08
 Operator : JU/SJ
 Sample : K2978-01RE 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Quant Time: May 24 07:19:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 23 03:49:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	198906	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	794063	20.00	ng	-0.03
39) Acenaphthene-d10	9.85	164	386884	20.00	ng	-0.03
64) Phenanthrene-d10	11.33	188	748628	20.00	ng	-0.02
76) Chrysene-d12	13.99	240	422222	20.00	ng	-0.01
87) Perylene-d12	15.46	264	556669	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	297805	24.09	ng	-0.03
7) Phenol-d6	6.46	99	406181	27.79	ng	-0.03
23) Nitrobenzene-d5	7.37	82	229822	16.24	ng	-0.03
42) 2,4,6-Tribromophenol	10.64	330	99668	24.92	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	462603	18.09	ng	-0.02
79) Terphenyl-d14	12.92	244	435520	21.26	ng	-0.02

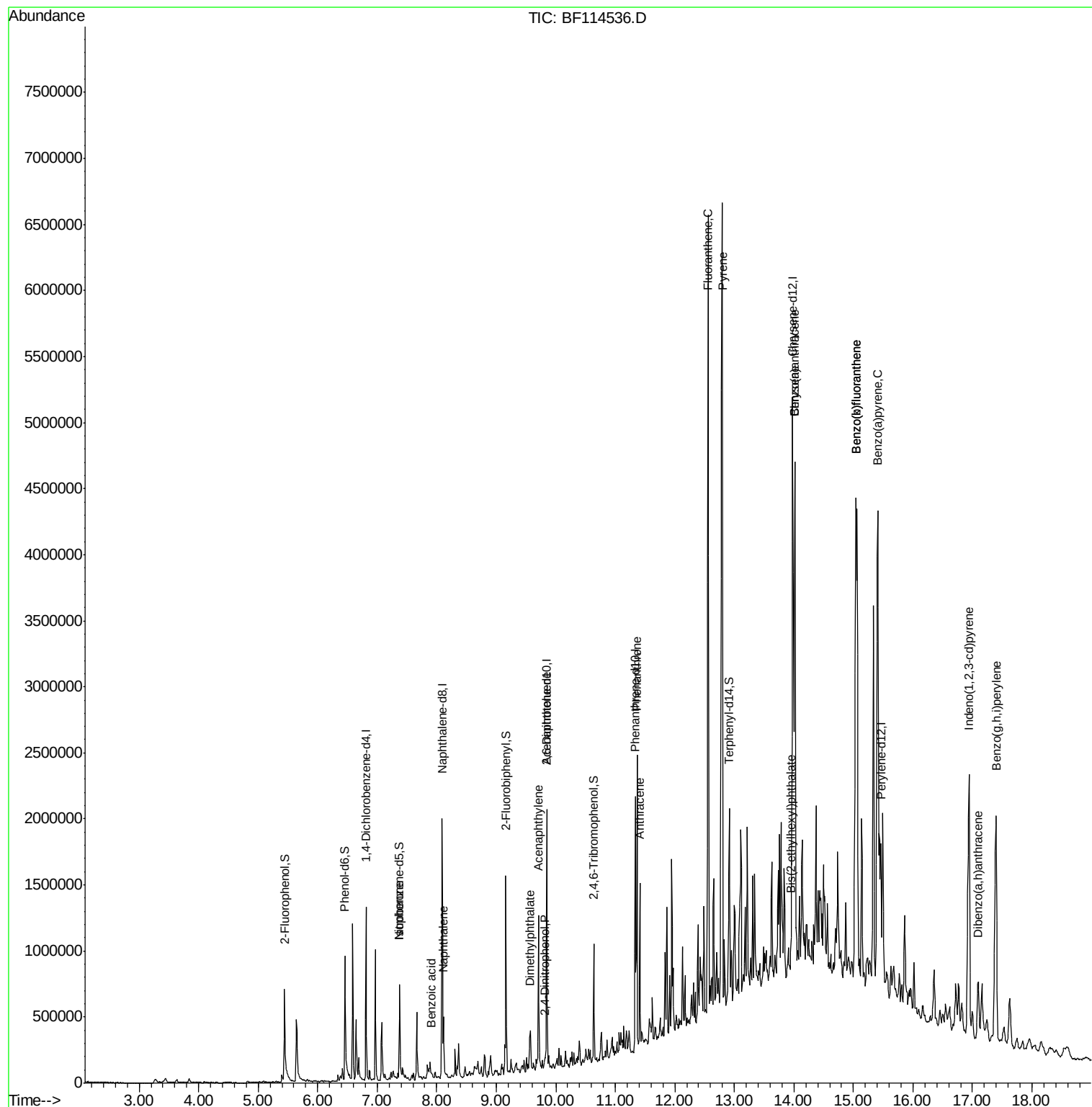
Target Compounds				Qvalue		
25) Isophorone	7.37	82	229822	8.758	ng	# 65
31) Naphthalene	8.12	128	158849	4.283	ng	99
32) Benzoic acid	7.91	122	3541	7.407	ng	# 80
49) Acenaphthylene	9.71	152	462527	12.090	ng	97
50) Dimethylphthalate	9.56	163	58400	2.056	ng	100
51) 2,6-Dinitrotoluene	9.85	165	52293	8.301	ng	# 24
54) 2,4-Dinitrophenol	9.81	184	152	6.789	ng	# 1
71) Phenanthrene	11.36	178	864956	23.748	ng	97
72) Anthracene	11.41	178	495082	13.533	ng	98
75) Fluoranthene	12.56	202	2999553	76.477	ng	97
78) Pyrene	12.80	202	3378339	99.463	ng	98
81) Benzo(a)anthracene	14.02	228	1666177	61.012	ng	94
83) Chrysene	14.02	228	1666177	62.239	ng	98
84) Bis(2-ethylhexyl)phthalate	13.95	149	55137	2.949	ng	# 97
86) Indeno(1,2,3-cd)pyrene	16.95	276	1563068	66.065	ng	94
88) Benzo(b)fluoranthene	15.04	252	3469570	97.287	ng	97
89) Benzo(k)fluoranthene	15.04	252	3469570	105.907	ng	98
90) Benzo(a)pyrene	15.41	252	2109007	67.194	ng	99
91) Dibenzo(a,h)anthracene	17.10	278	318377	12.207	ng	98
92) Benzo(a,h,i)perylene	17.40	276	1640881	62.780	ng	99

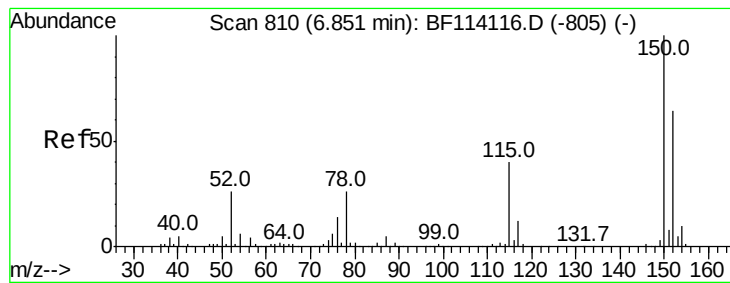
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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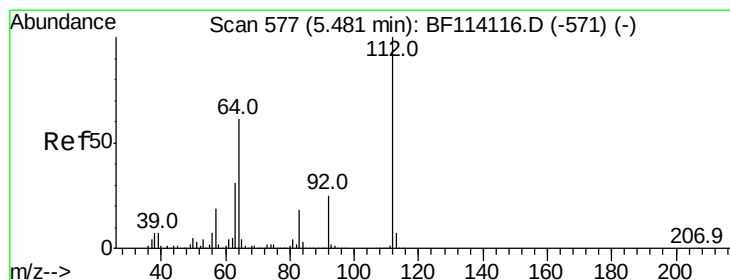
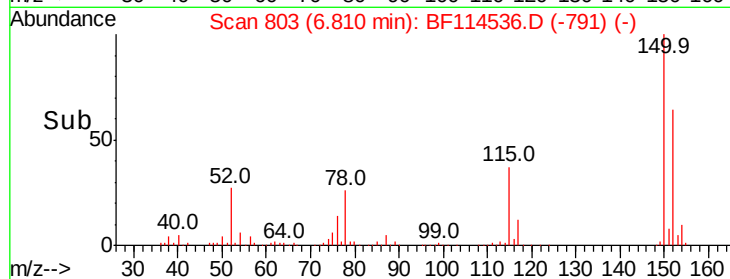
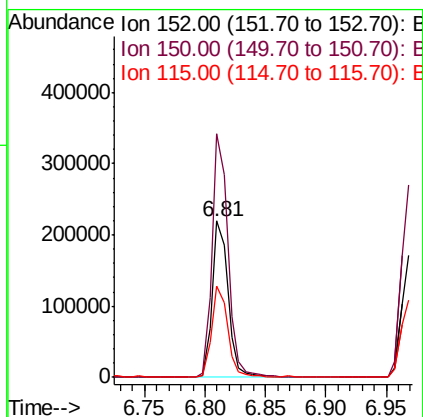
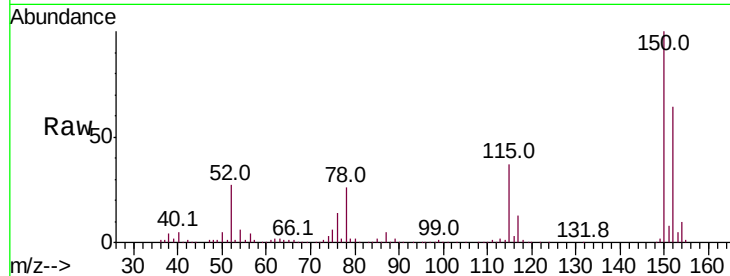


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.03 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

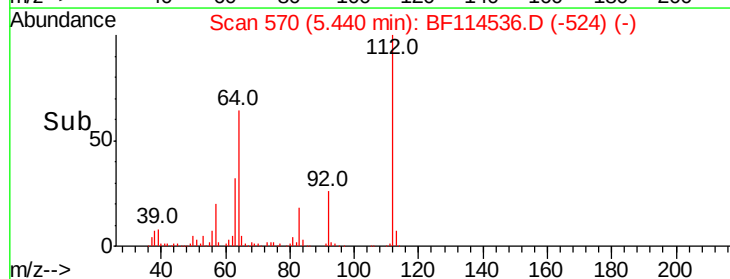
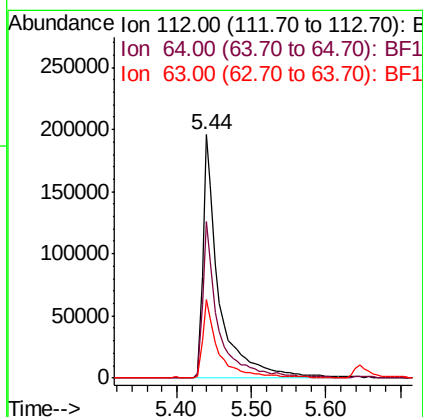
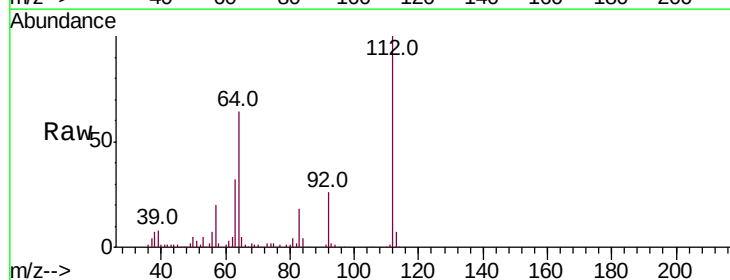
Tot Ion:152 Resp: 198906
Ion Ratio Lower Upper
152 100
150 155.6 124.3 186.5
115 58.1 49.1 73.7

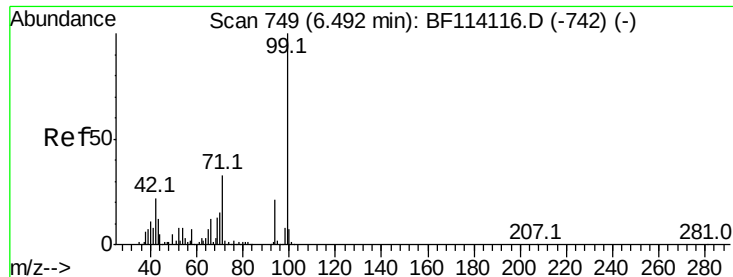


#5

2-Fluorophenol
Concen: 24.094 ng
RT: 5.44 min Scan# 570
Delta R.T. -0.03 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion:112 Resp: 297805
Ion Ratio Lower Upper
112 100
64 64.1 49.0 73.6
63 32.5 24.6 37.0





#7

Phenol-d6

Concen: 27.785 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

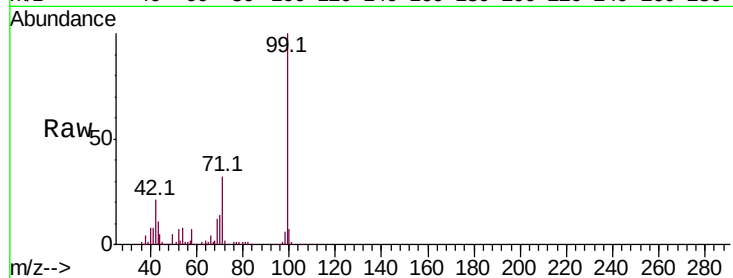
Tot Ion: 99 Resp: 406181

Ion Ratio Lower Upper

99 100

42 21.2 17.9 26.9

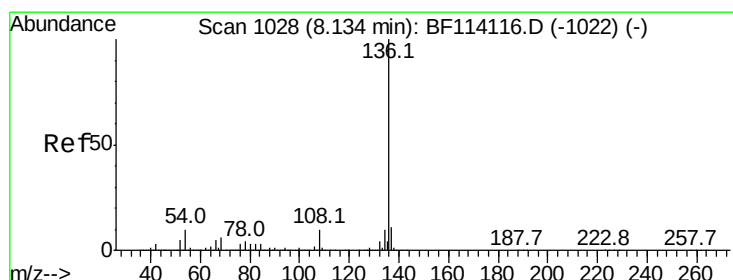
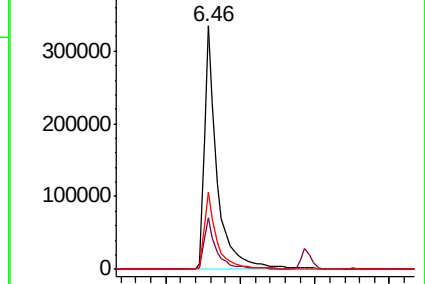
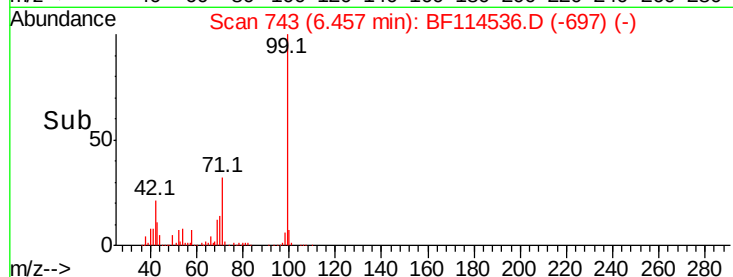
71 31.5 26.2 39.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion: 136 Resp: 794063

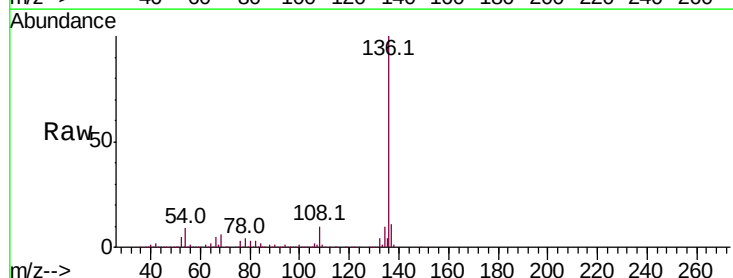
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 9.2 7.8 11.8

68 6.1 5.1 7.7

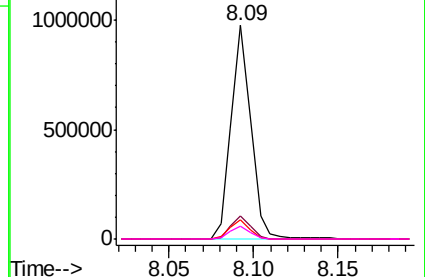
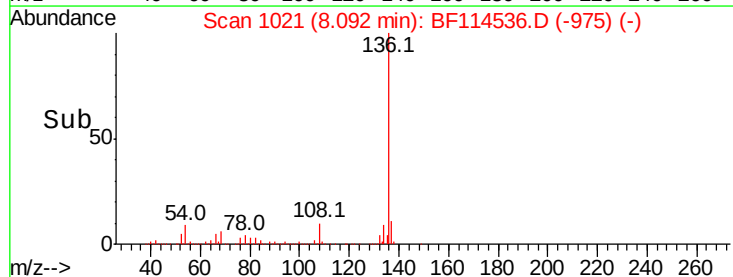


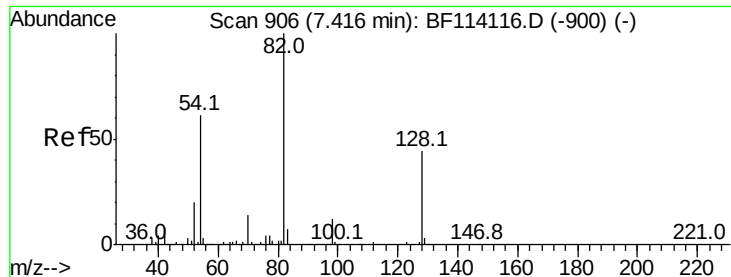
Abundance Ion 136.00 (135.70 to 136.70): E

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

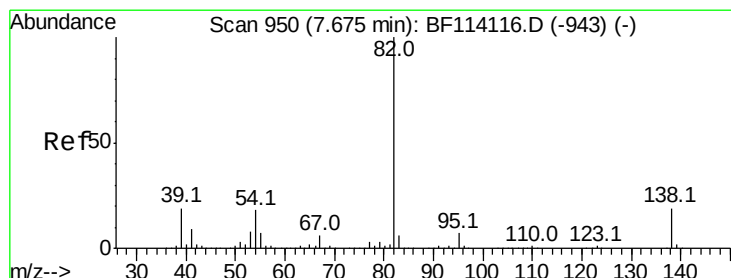
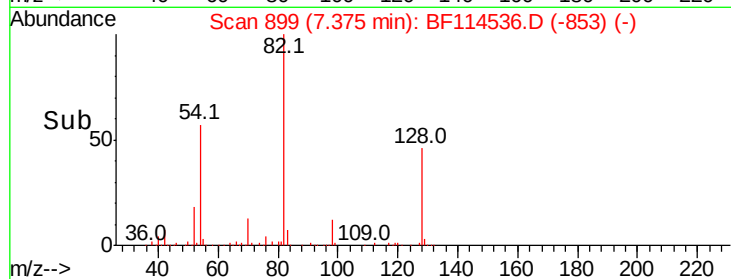
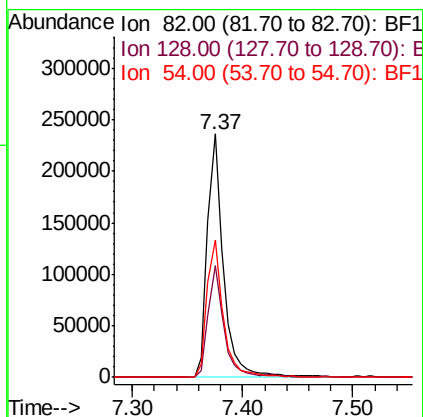
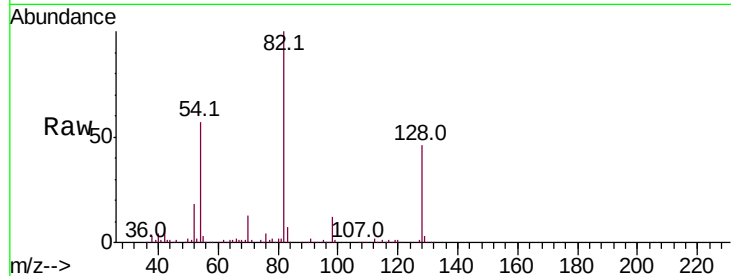




#23
 Nitrobenzene-d5
 Concen: 16.243 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.03 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

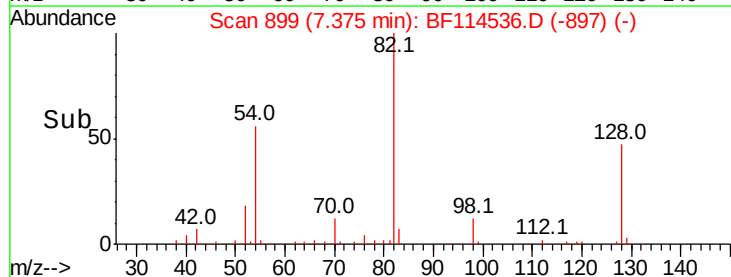
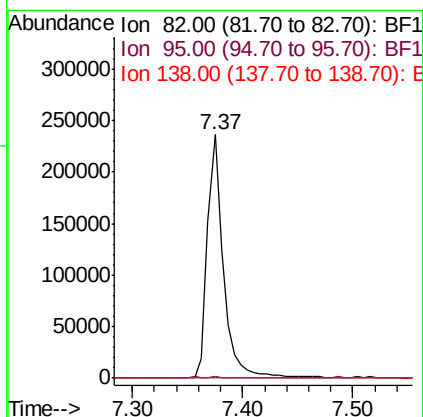
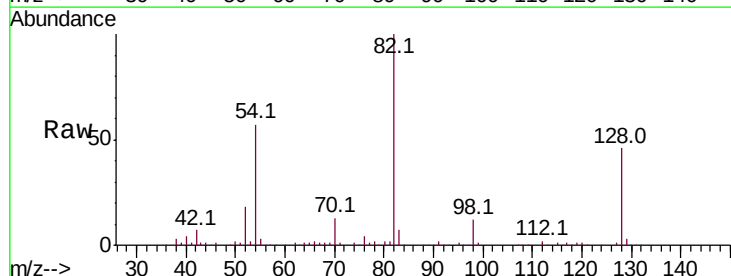
Instrument :
 BNA_F
 ClientSampleID :
 RO-SOIL

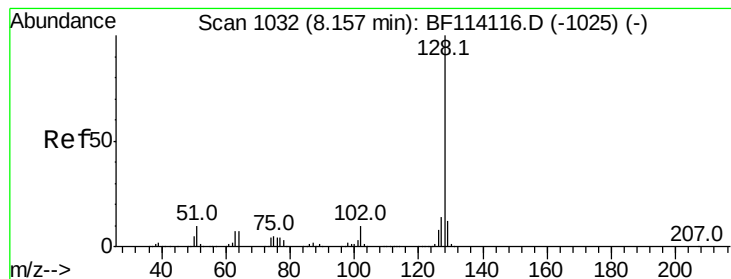
Tot Ion: 82 Resp: 229822
 Ion Ratio Lower Upper
 82 100
 128 45.9 35.5 53.3
 54 56.6 48.5 72.7



#25
 Isophorone
 Concen: 8.758 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.29 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion: 82 Resp: 229822
 Ion Ratio Lower Upper
 82 100
 95 0.5 5.6 8.4#
 138 0.0 14.8 22.2#





#31

Naphthalene

Concen: 4.283 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

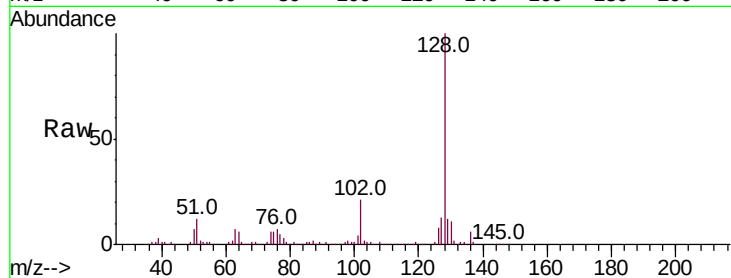
Tot Ion:128 Resp: 158849

Ion Ratio Lower Upper

128 100

129 11.8 9.6 14.4

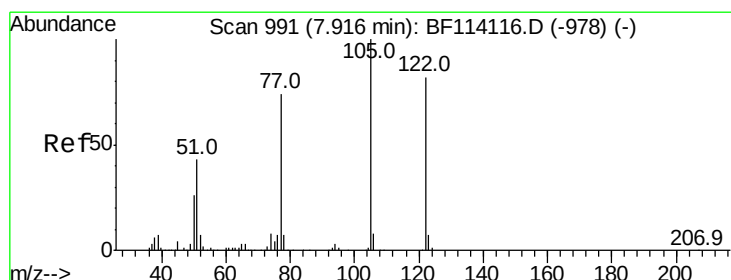
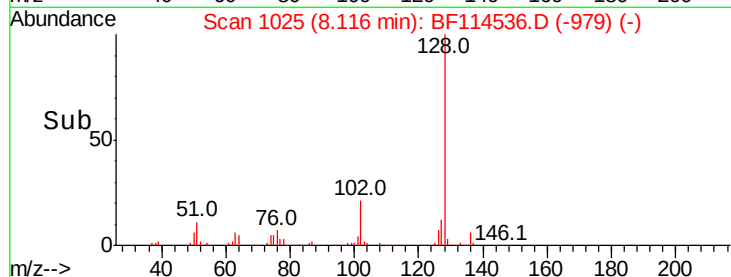
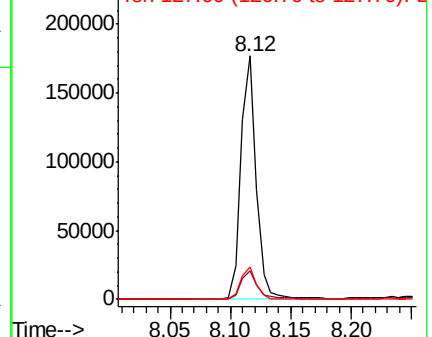
127 13.4 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 7.407 ng

RT: 7.91 min Scan# 990

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

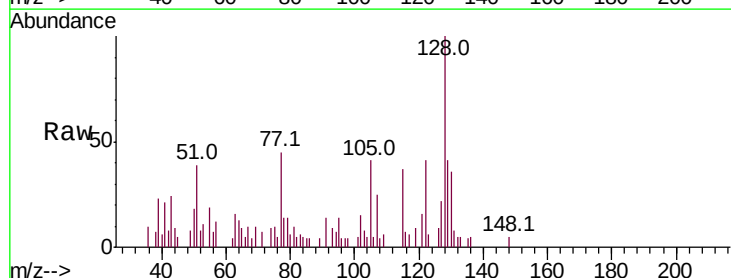
Tgt Ion:122 Resp: 3541

Ion Ratio Lower Upper

122 100

105 99.7 99.9 139.9#

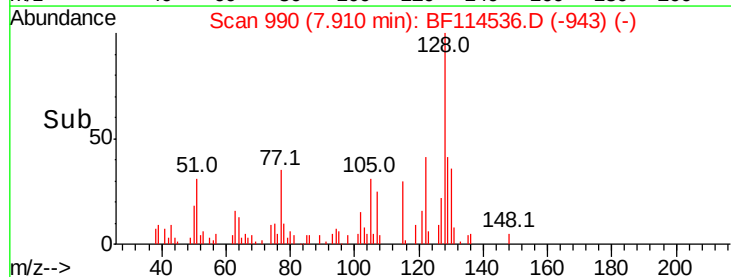
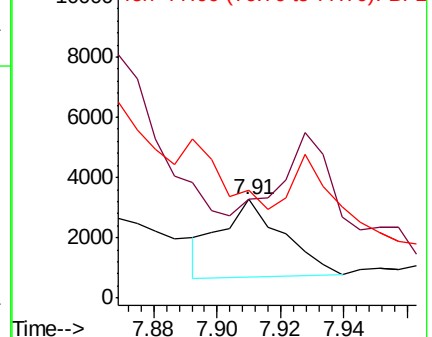
77 109.6 69.4 109.4#

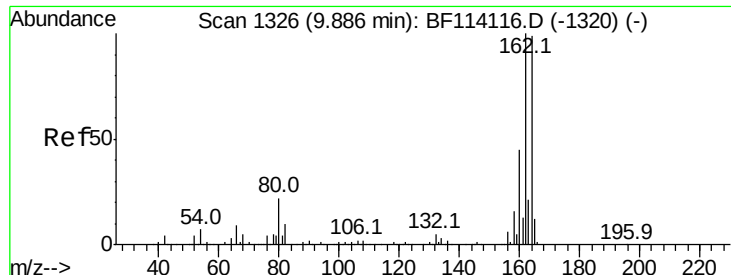


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

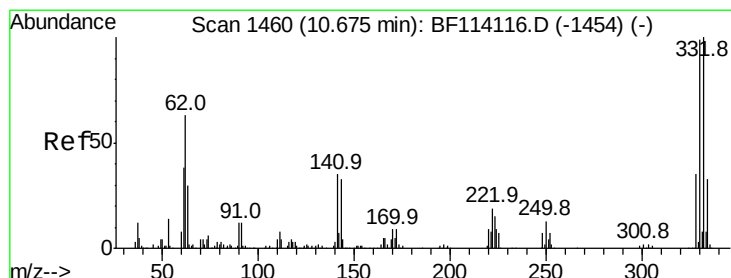
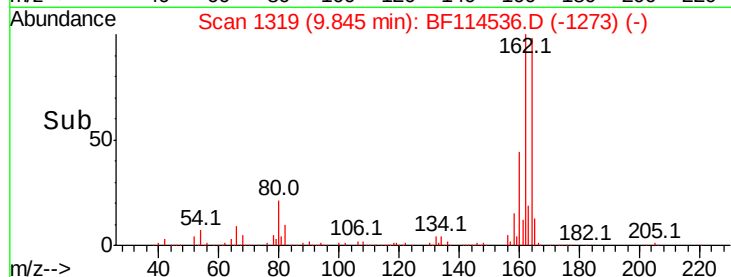
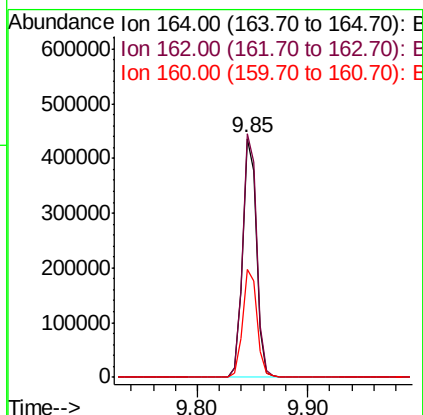
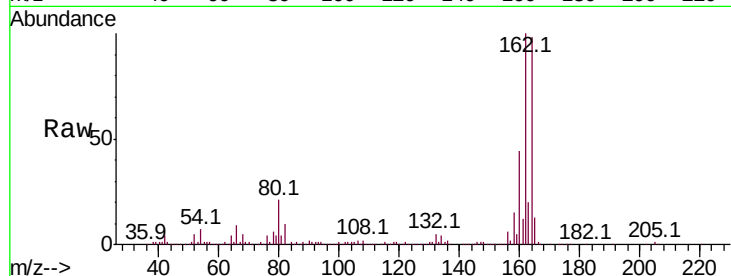




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

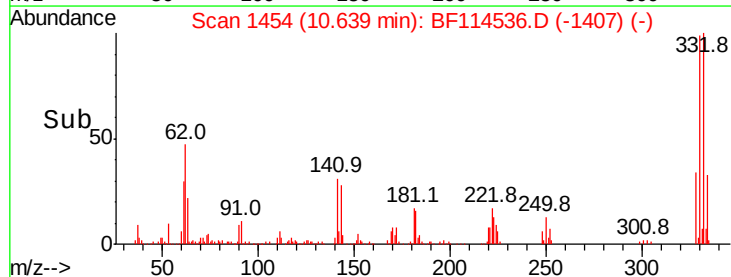
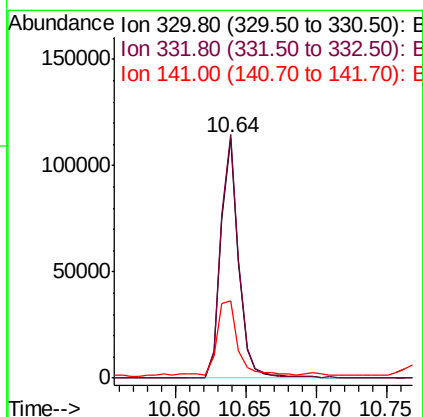
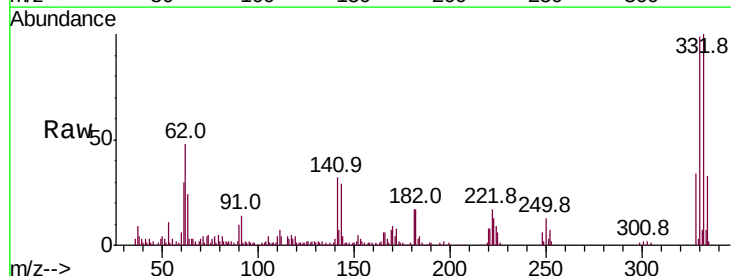
Instrument :
 BNA_F
 ClientSampled :
 RO-SOIL

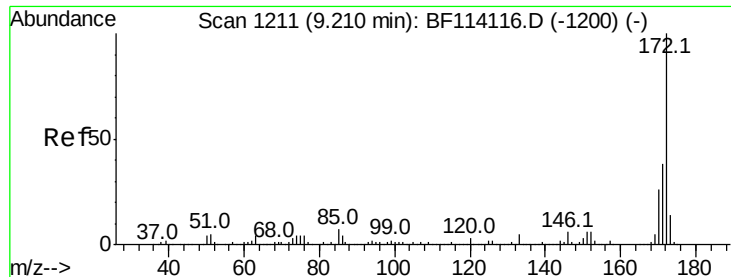
Tot Ion:164 Resp: 386884
 Ion Ratio Lower Upper
 164 100
 162 101.9 80.6 120.8
 160 45.3 36.5 54.7



#42
 2,4,6-Tribromophenol
 Concen: 24.919 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion:330 Resp: 99668
 Ion Ratio Lower Upper
 330 100
 332 102.1 81.4 122.2
 141 34.6 26.6 40.0

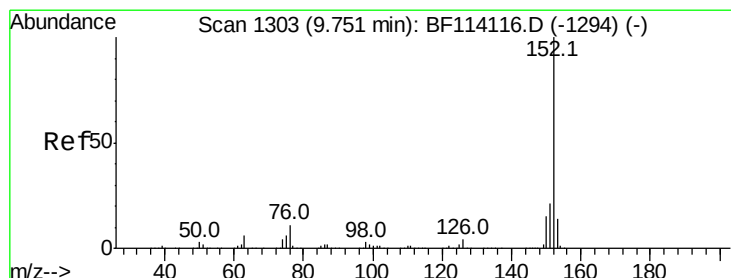
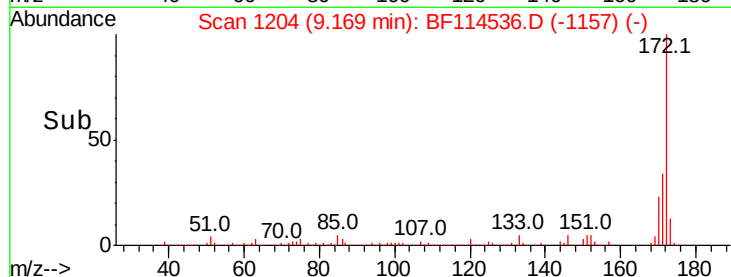
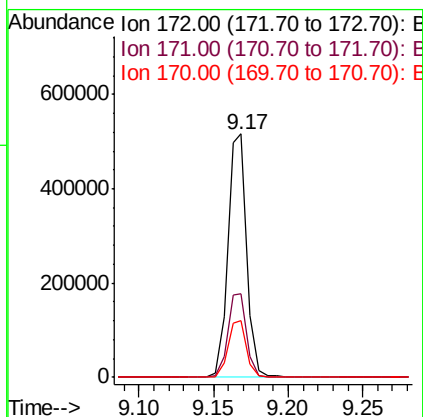
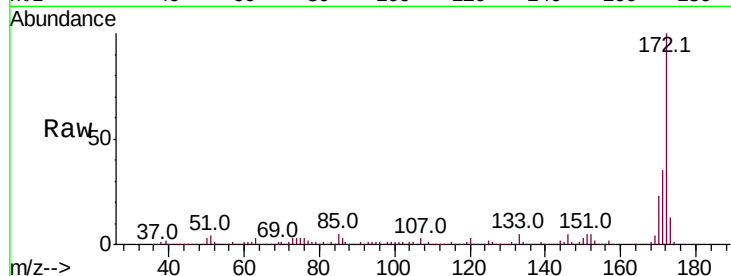




#45
2-Fluorobiphenyl
Concen: 18.087 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.02 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

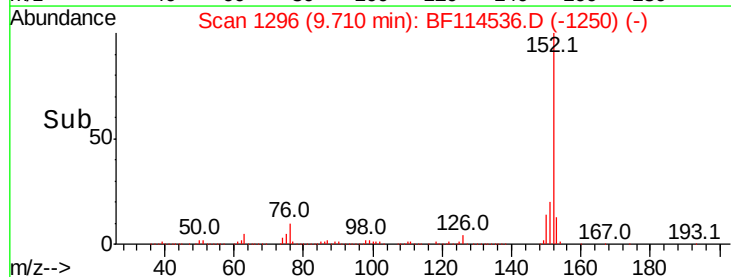
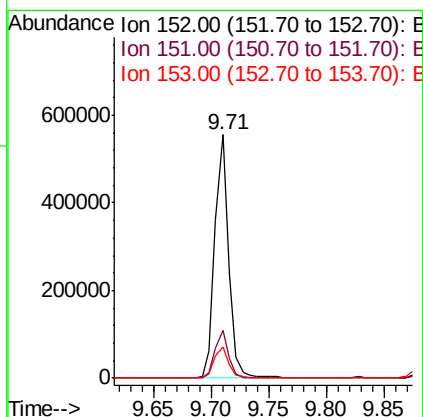
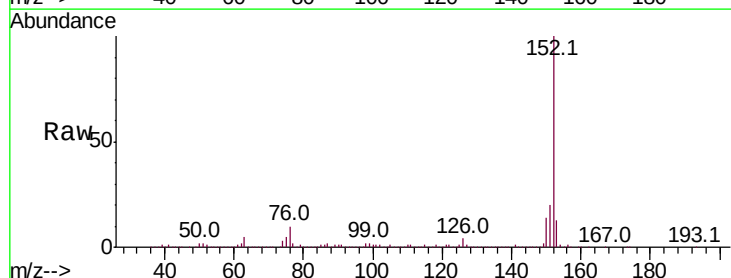
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

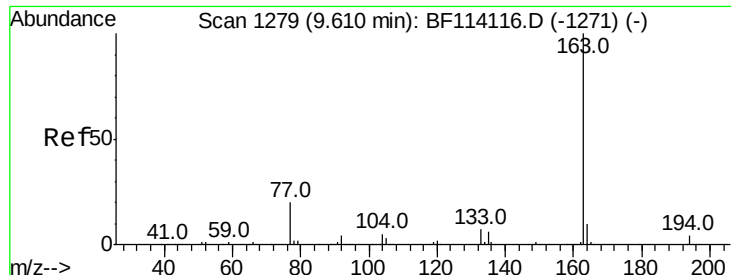
Tot Ion:172 Resp: 462603
Ion Ratio Lower Upper
172 100
171 34.5 30.7 46.1
170 23.1 20.5 30.7



#49
Acenaphthylene
Concen: 12.090 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.03 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion:152 Resp: 462527
Ion Ratio Lower Upper
152 100
151 19.6 16.8 25.2
153 12.9 11.4 17.2

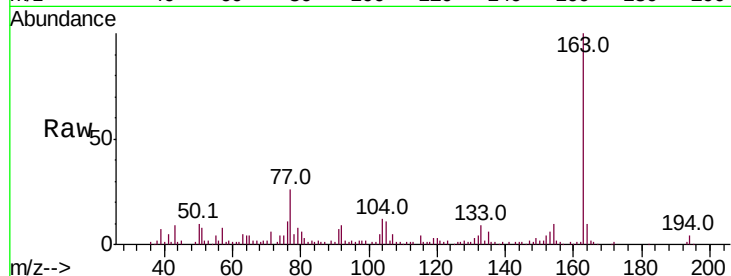




#50
Dimethylphthalate
Concen: 2.056 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.03 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Instrument :
BNA_F
ClientSampleId :
RO-SOIL

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.0	8.2	12.2

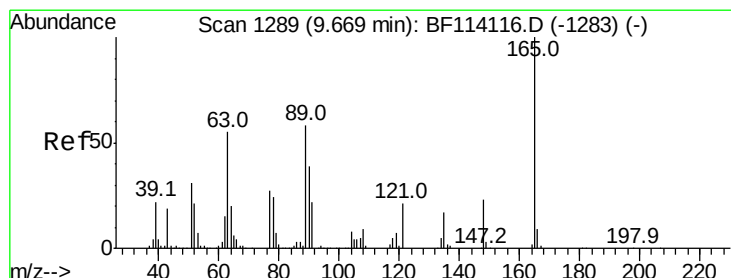
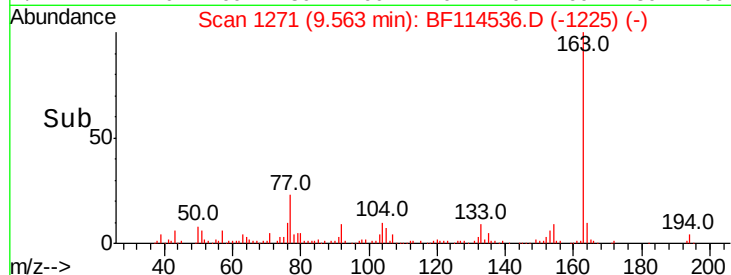
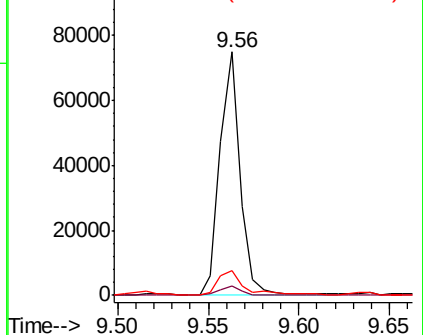


Abundance

Ion 163.00 (162.70 to 163.70): E

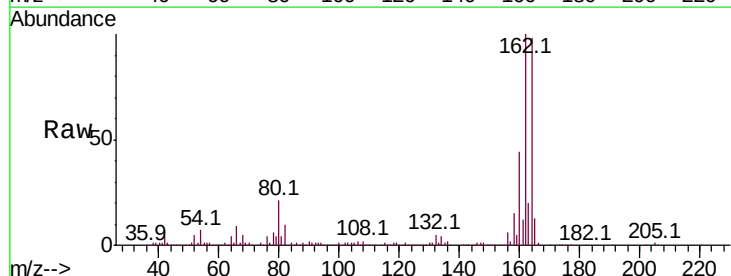
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
2,6-Dinitrotoluene
Concen: 8.301 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.18 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	3.6	50.2	75.4#
89	2.7	46.6	69.8#

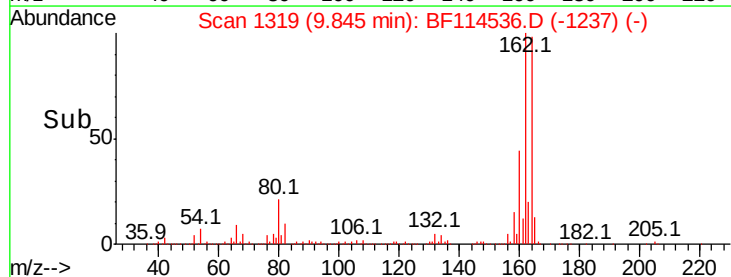
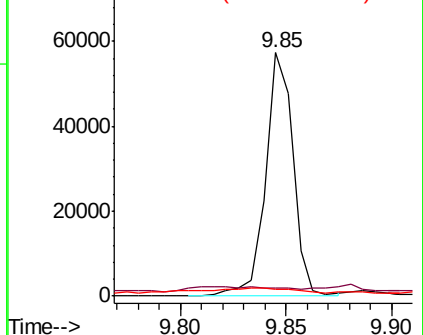


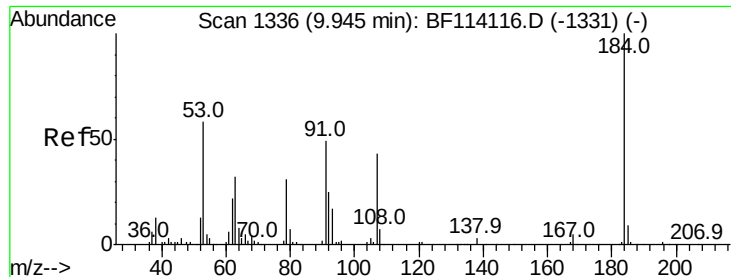
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

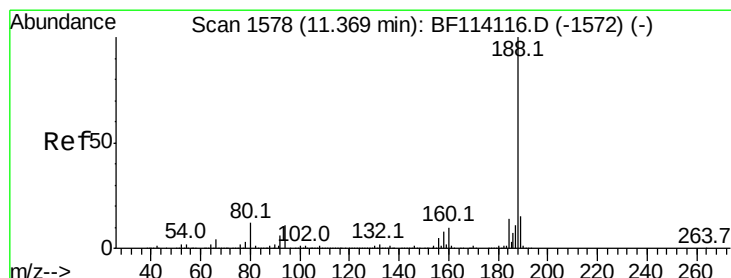
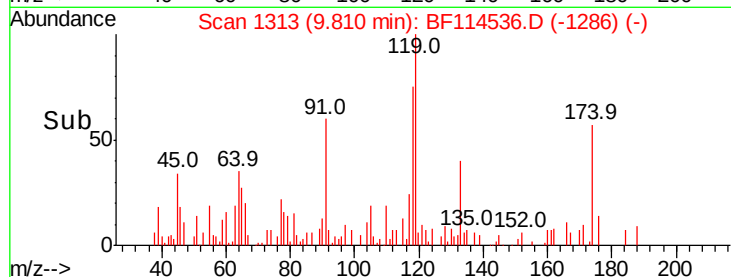
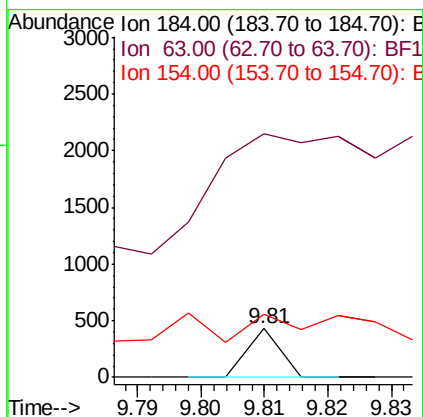
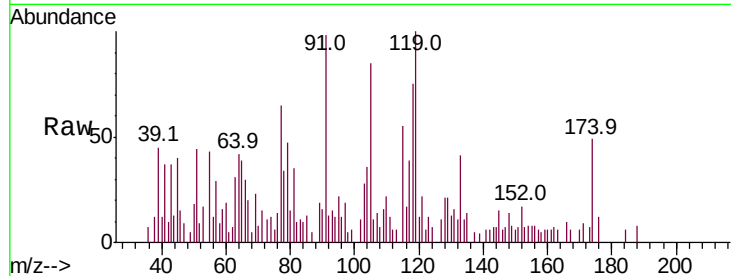




#54
 2,4-Dinitrophenol
 Concen: 6.789 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.14 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

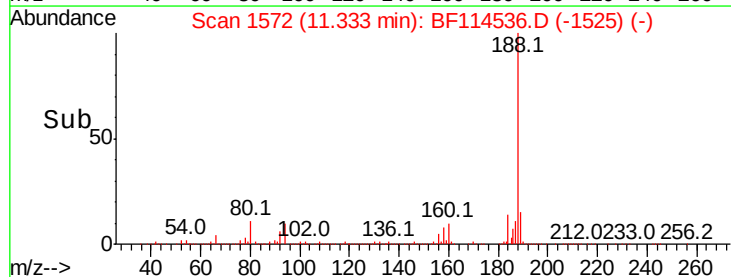
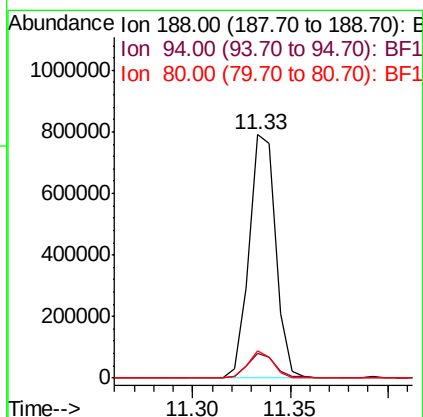
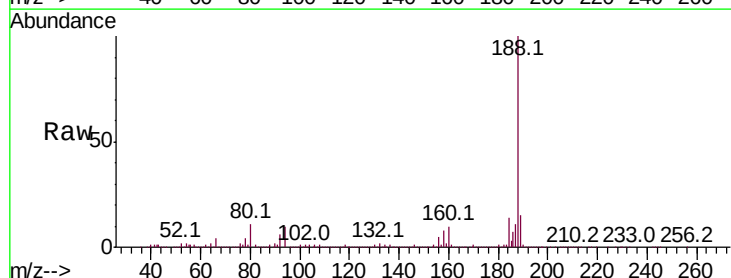
Instrument :
 BNA_F
 ClientSampled :
 RO-SOIL

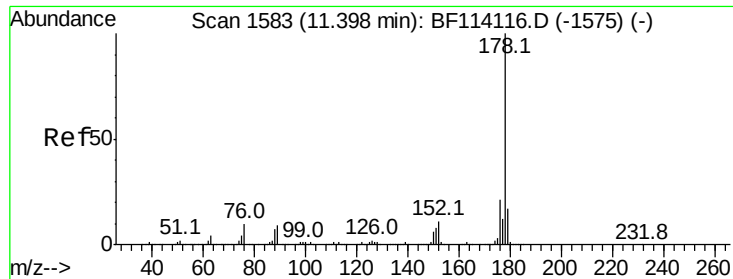
Tot Ion:184 Resp: 152
 Ion Ratio Lower Upper
 184 100
 63 499.5 55.6 83.4#
 154 128.4 46.0 69.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.02 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion:188 Resp: 748628
 Ion Ratio Lower Upper
 188 100
 94 10.4 8.4 12.6
 80 11.3 9.2 13.8





#71

Phenanthrene

Concen: 23.748 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

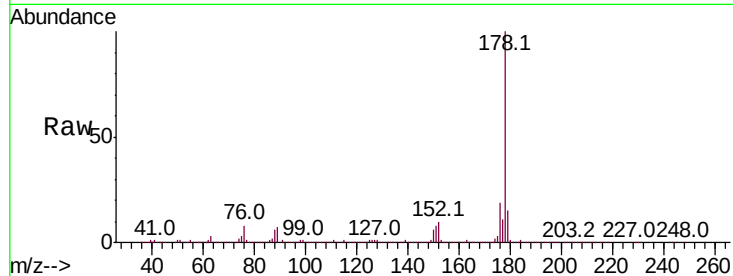
Tot Ion:178 Resp: 864956

Ion Ratio Lower Upper

178 100

176 19.0 16.4 24.6

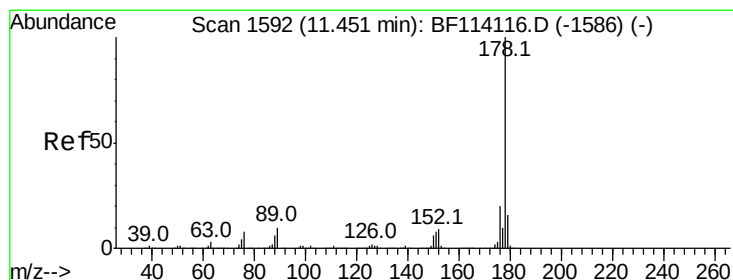
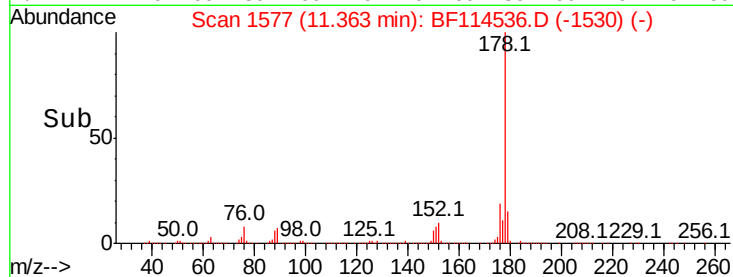
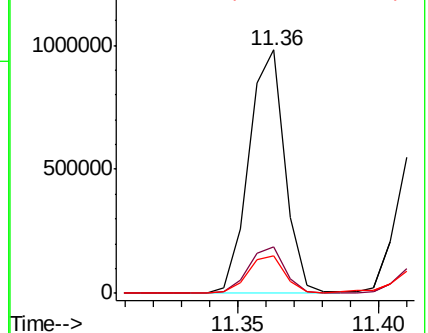
179 15.4 13.2 19.8



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: 13.533 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

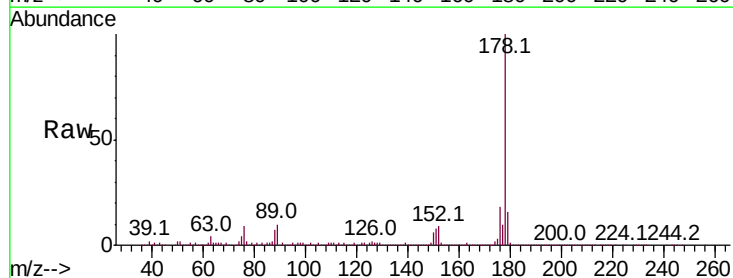
Tgt Ion:178 Resp: 495082

Ion Ratio Lower Upper

178 100

176 17.9 15.8 23.8

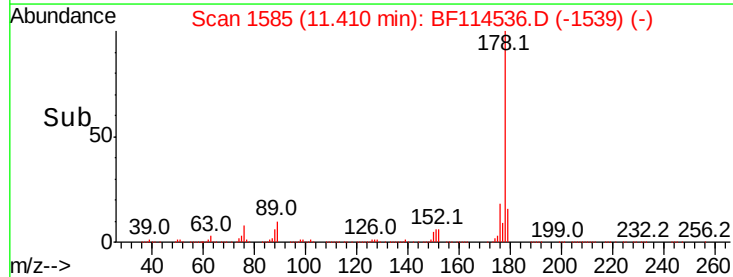
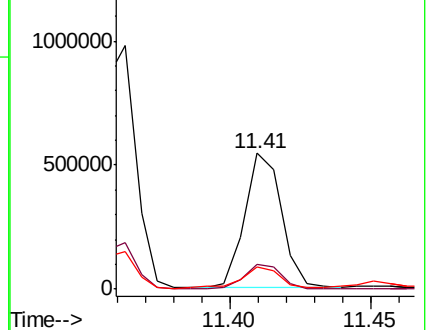
179 16.4 13.0 19.4

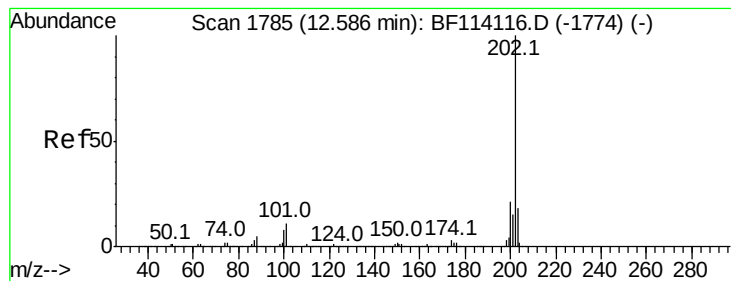


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 76.477 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

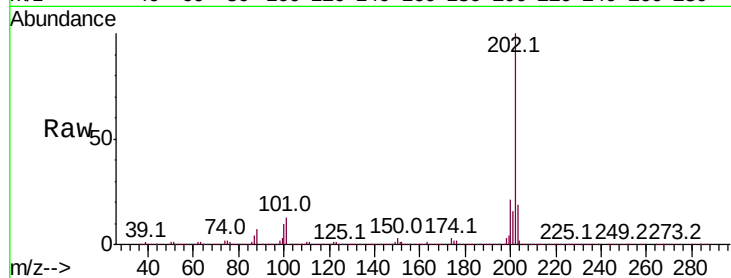
Tot Ion:202 Resp: 2999553

Ion Ratio Lower Upper

202 100

101 13.0 0.0 31.0

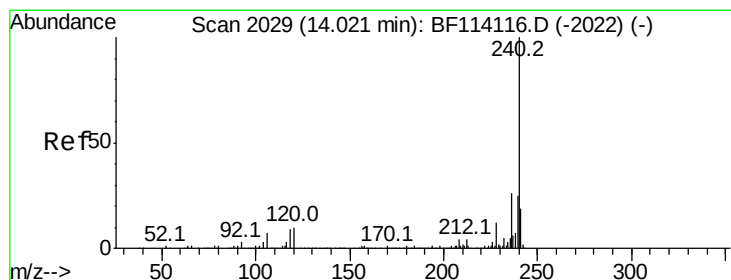
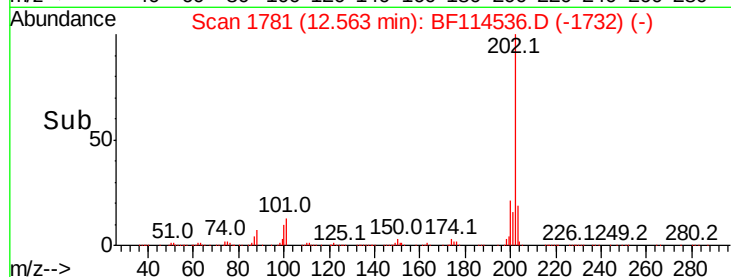
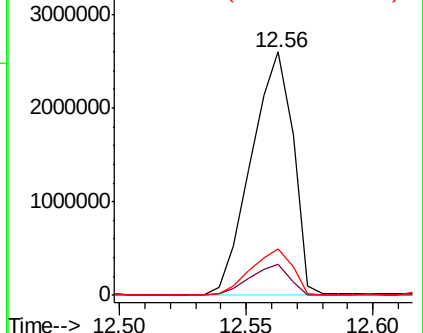
203 19.1 0.0 38.4



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: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

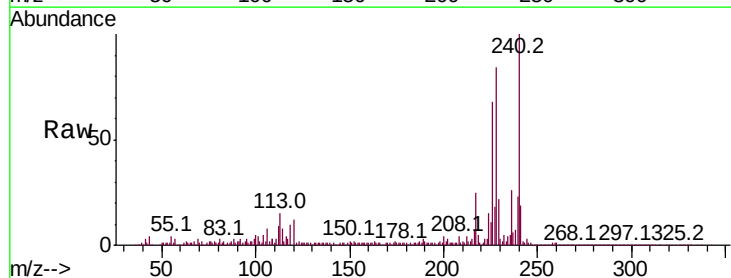
Tgt Ion:240 Resp: 422222

Ion Ratio Lower Upper

240 100

120 11.8 8.3 12.5

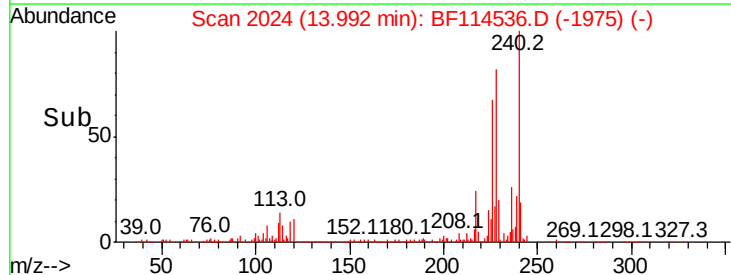
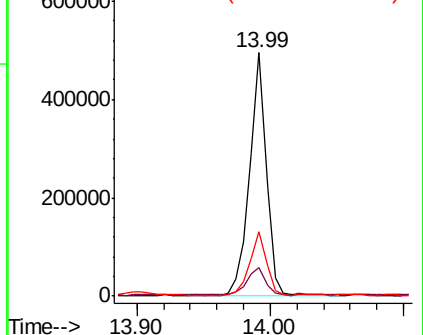
236 26.3 20.8 31.2

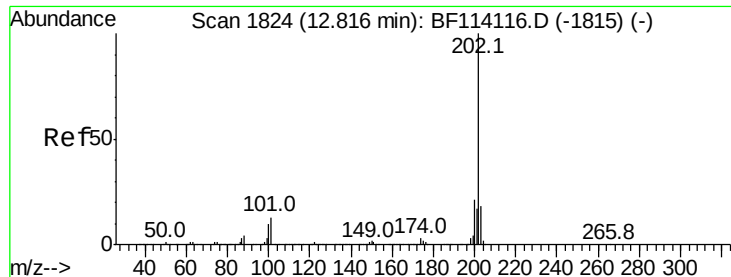


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 99.463 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

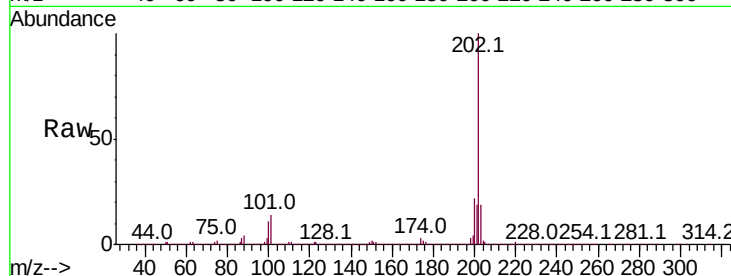
Tot Ion:202 Resp: 3378339

Ion Ratio Lower Upper

202 100

200 21.8 16.9 25.3

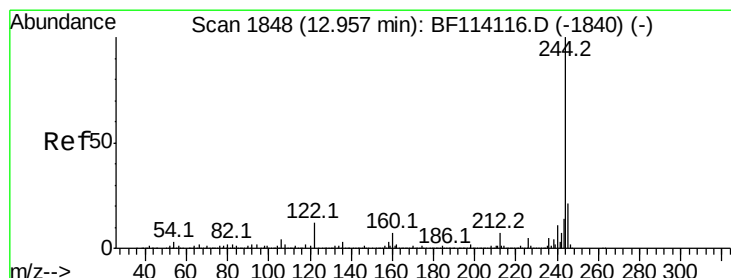
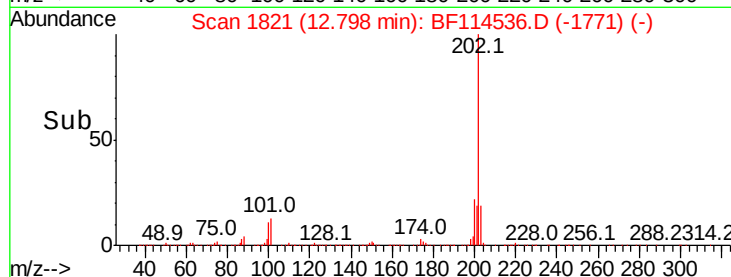
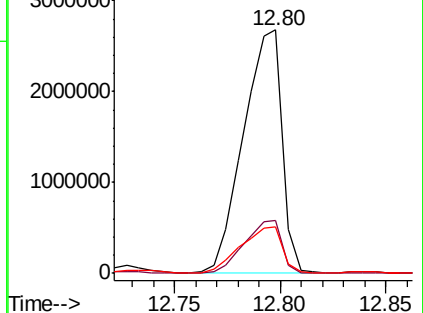
203 19.1 14.5 21.7



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: 21.264 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

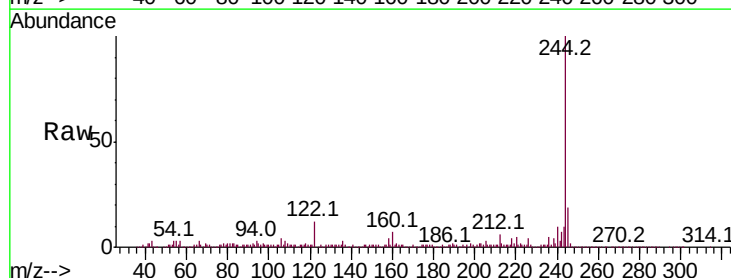
Tgt Ion:244 Resp: 435520

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.6

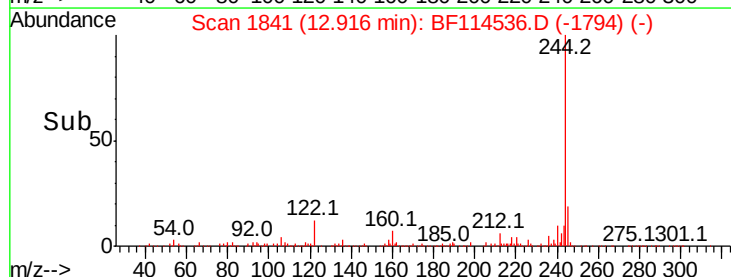
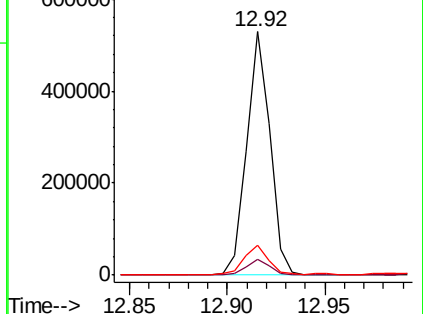
122 12.0 9.4 14.2

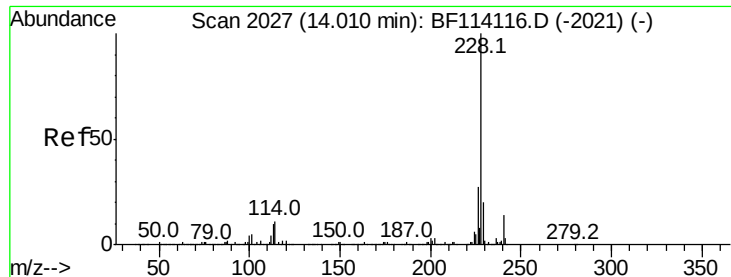


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 61.012 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.03 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

Tot Ion:228 Resp: 1666177

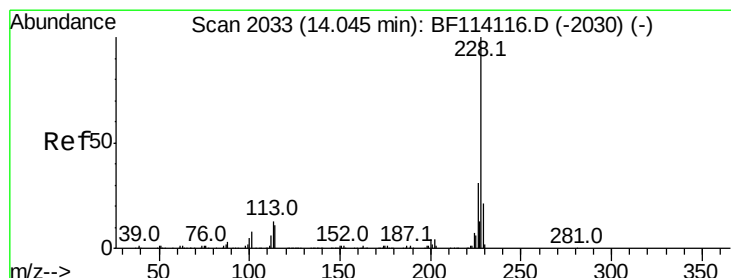
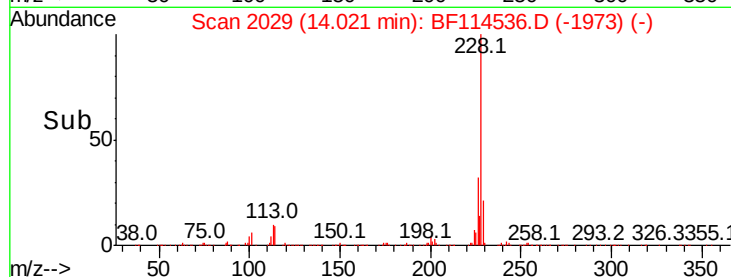
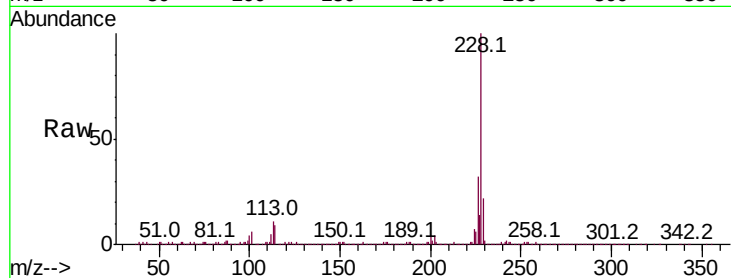
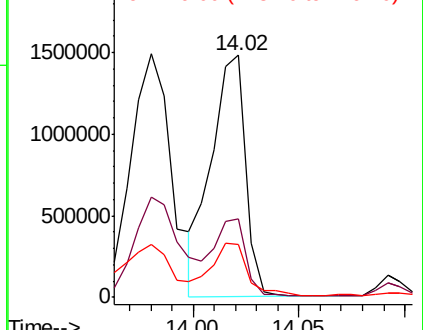
Ion	Ratio	Lower	Upper
228	100		
226	32.3	22.2	33.2
229	21.9	16.4	24.6

Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 62.239 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Tgt Ion:228 Resp: 1666177

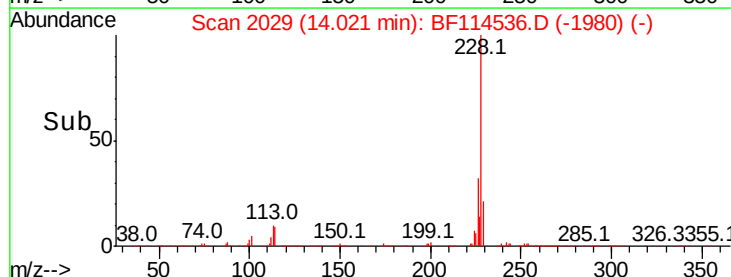
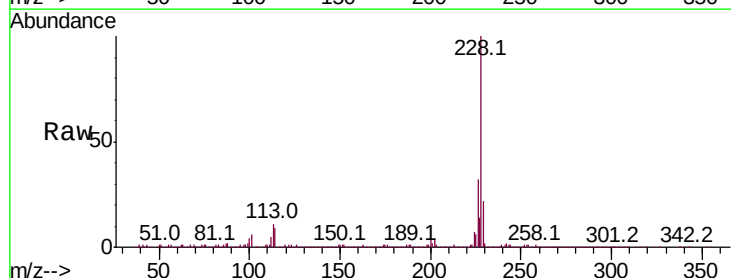
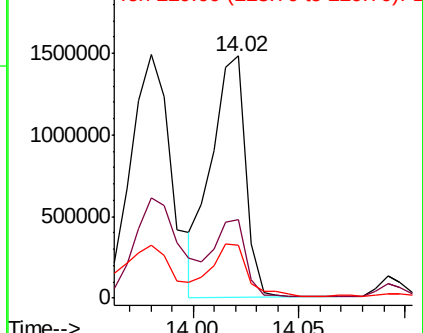
Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.0	37.6
229	21.9	17.0	25.6

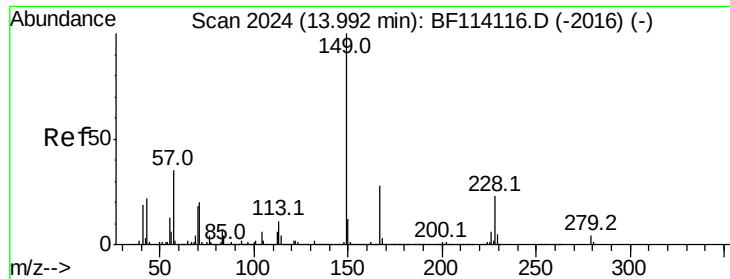
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

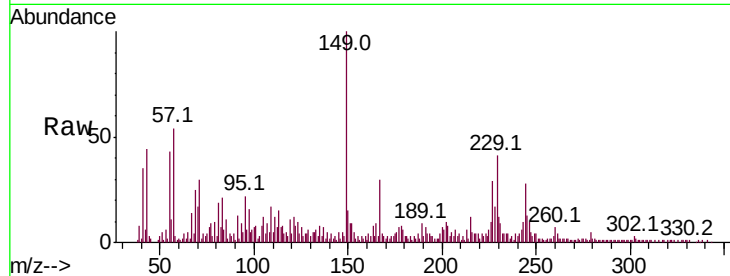




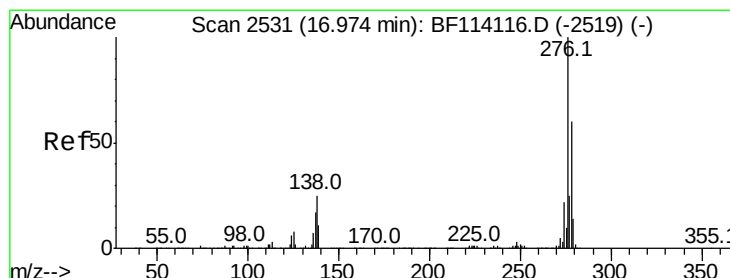
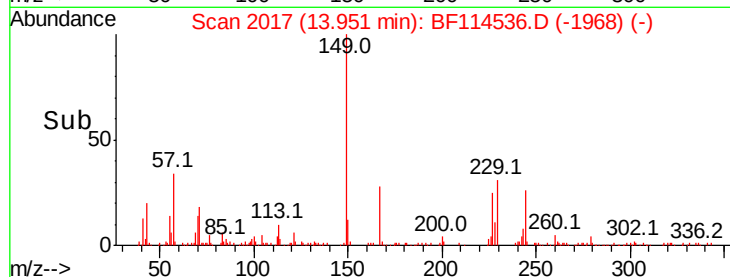
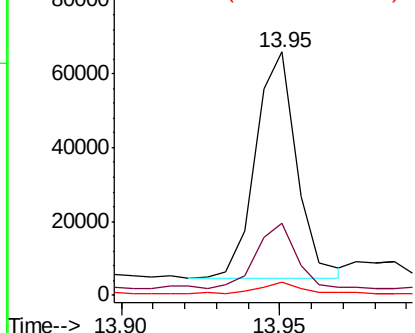
#84
 Bis(2-ethylhexyl)phthalate
 Concen: 2.949 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. -0.01 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Instrument :
 BNA_F
 ClientSampleId :
 RO-SOIL

Tot Ion:149 Resp: 55137
 Ion Ratio Lower Upper
 149 100
 167 29.9 22.6 33.8
 279 5.2 3.0 4.6#

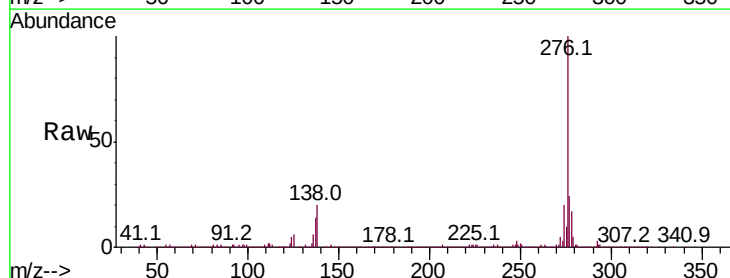


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

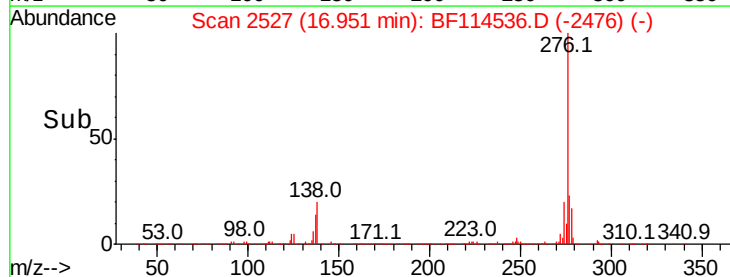
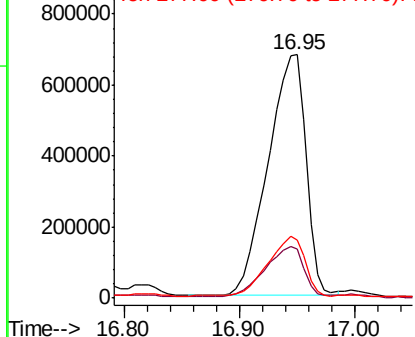


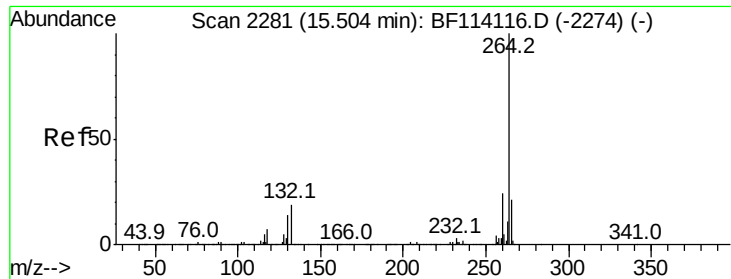
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 66.065 ng
 RT: 16.95 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: BF114536.D
 Acq: 23 May 2019 21:08

Tgt Ion:276 Resp: 1563068
 Ion Ratio Lower Upper
 276 100
 138 20.6 20.2 30.2
 277 24.0 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleID :

RO-SOIL

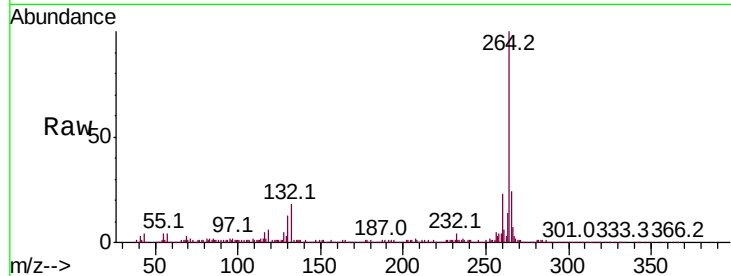
Tot Ion:264 Resp: 556669

Ion Ratio Lower Upper

264 100

260 23.4 19.4 29.0

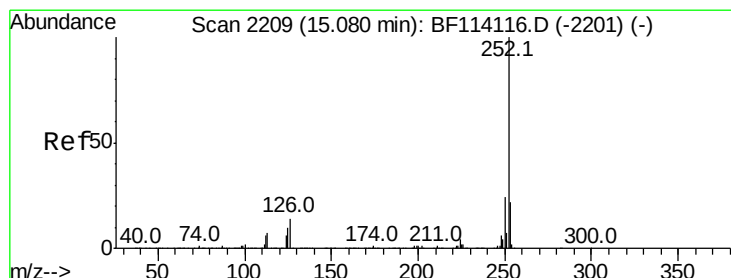
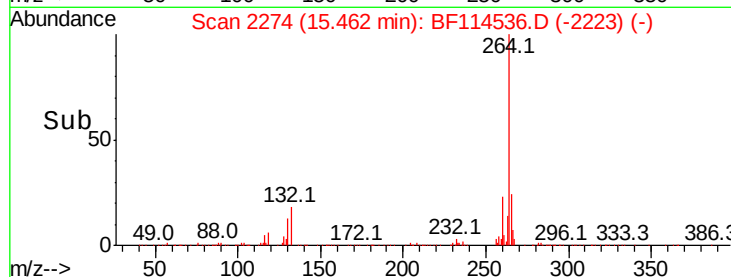
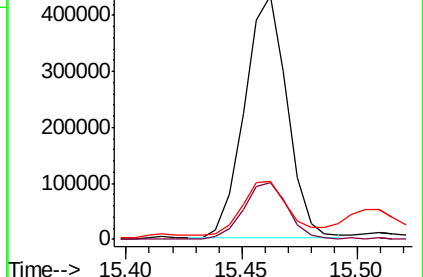
265 24.0 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 97.287 ng

RT: 15.04 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

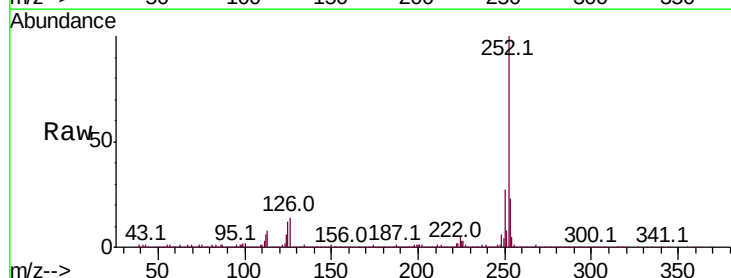
Tgt Ion:252 Resp: 3469570

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

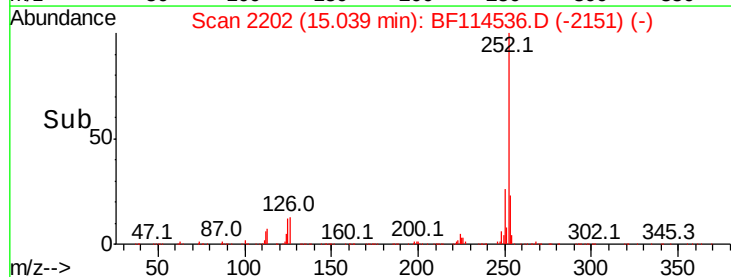
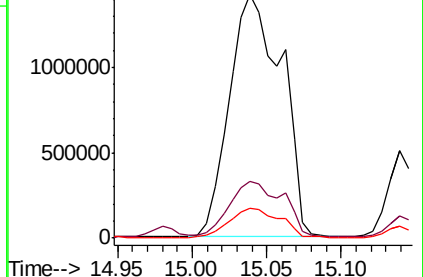
125 12.3 8.3 12.5

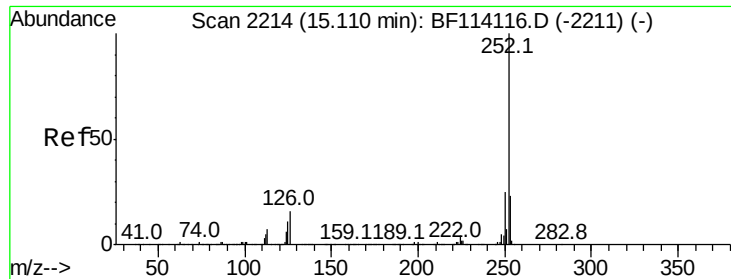


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

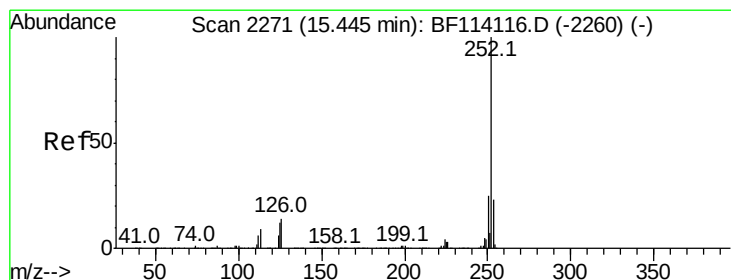
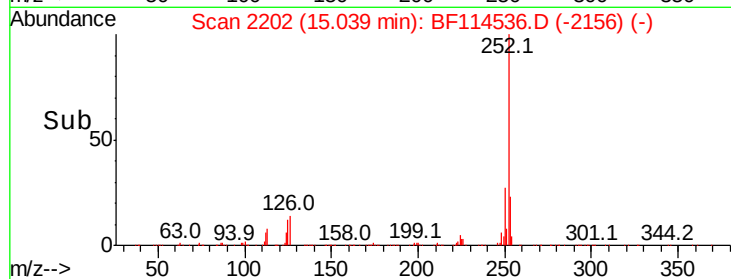
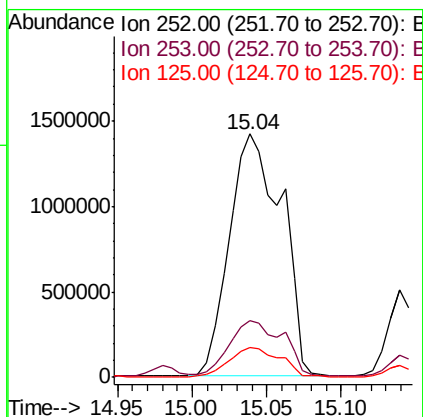
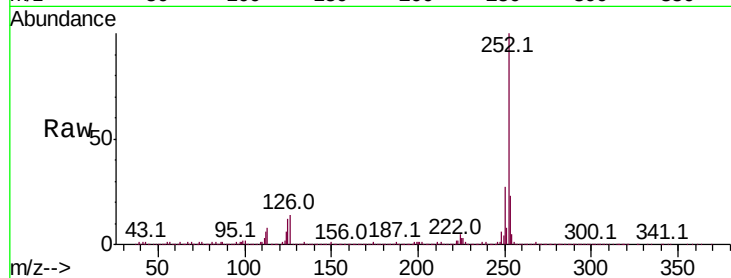




#89
Benzo(k)fluoranthene
Concen: 105.907 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.03 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

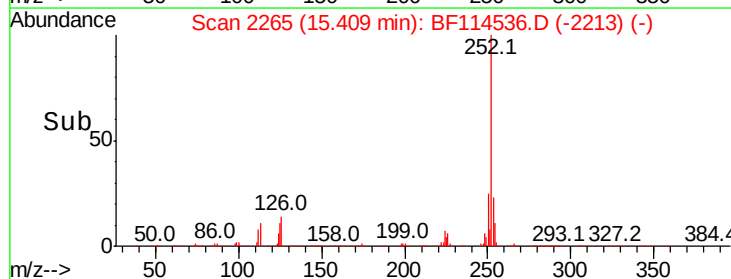
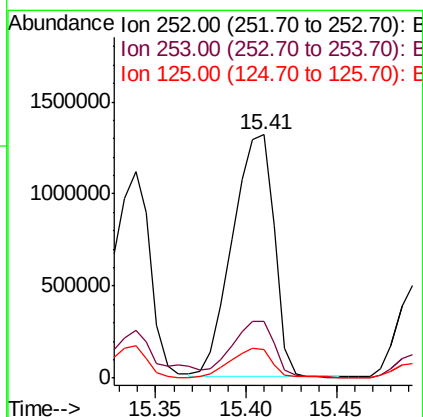
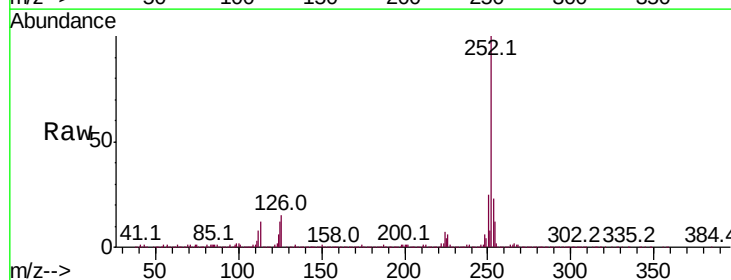
Instrument :
BNA_F
ClientSampleId :
RO-SOIL

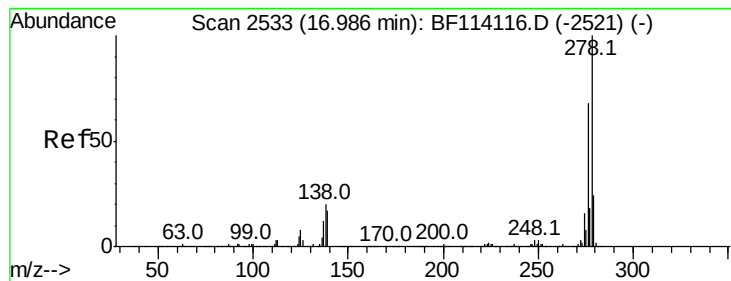
Tot Ion:252 Resp: 3469570
Ion Ratio Lower Upper
252 100
253 23.4 18.2 27.2
125 12.3 8.6 13.0



#90
Benzo(a)pyrene
Concen: 67.194 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.01 min
Lab File: BF114536.D
Acq: 23 May 2019 21:08

Tgt Ion:252 Resp: 2109007
Ion Ratio Lower Upper
252 100
253 23.3 18.1 27.1
125 11.6 9.5 14.3





#91

Dibenzo(a,h)anthracene

Concen: 12.207 ng

RT: 17.10 min Scan# 2552

Delta R.T. 0.15 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

Instrument :

BNA_F

ClientSampleId :

RO-SOIL

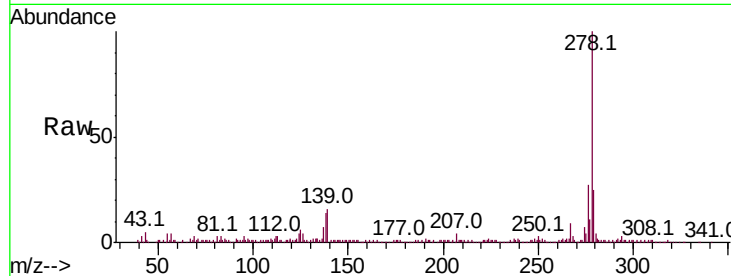
Tot Ion:278 Resp: 318377

Ion Ratio Lower Upper

278 100

139 16.2 13.5 20.3

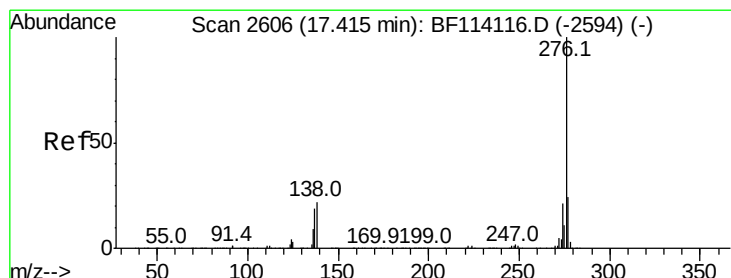
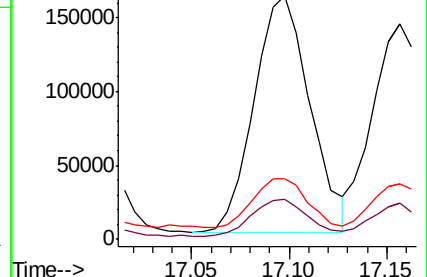
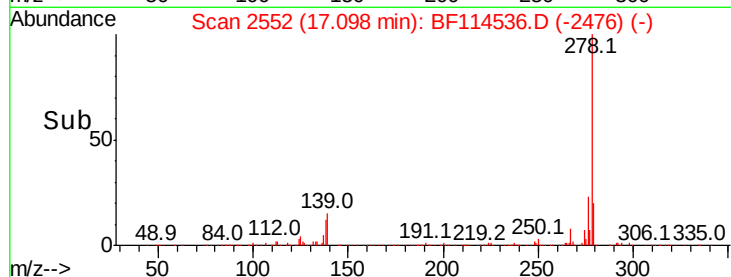
279 24.8 19.0 28.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 62.780 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.01 min

Lab File: BF114536.D

Acq: 23 May 2019 21:08

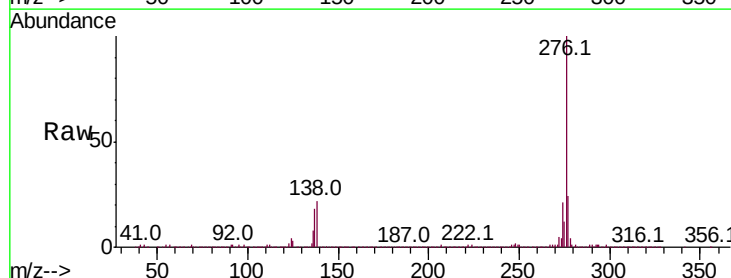
Tgt Ion:276 Resp: 1640881

Ion Ratio Lower Upper

276 100

277 24.0 19.0 28.4

138 21.9 17.8 26.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

