

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF011419\
 Data File : BF112053.D
 Acq On : 14 Jan 2019 16:25
 Operator : JU/SJ
 Sample : K1080-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CONCRETE-PILE

Quant Time: Jan 14 21:04:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 11 21:37:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	153088	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	547599	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	292072	20.00	ng	-0.01
64) Phenanthrene-d10	11.39	188	459377	20.00	ng	0.00
76) Chrysene-d12	14.03	240	328556	20.00	ng	-0.01
87) Perylene-d12	15.51	264	339687	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	810374	90.56	ng	0.00
7) Phenol-d6	6.52	99	1158636	100.46	ng	0.00
23) Nitrobenzene-d5	7.43	82	596005	58.17	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	267638	70.45	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1203928	60.11	ng	0.00
79) Terphenyl-d14	12.97	244	1319288	76.22	ng	-0.01

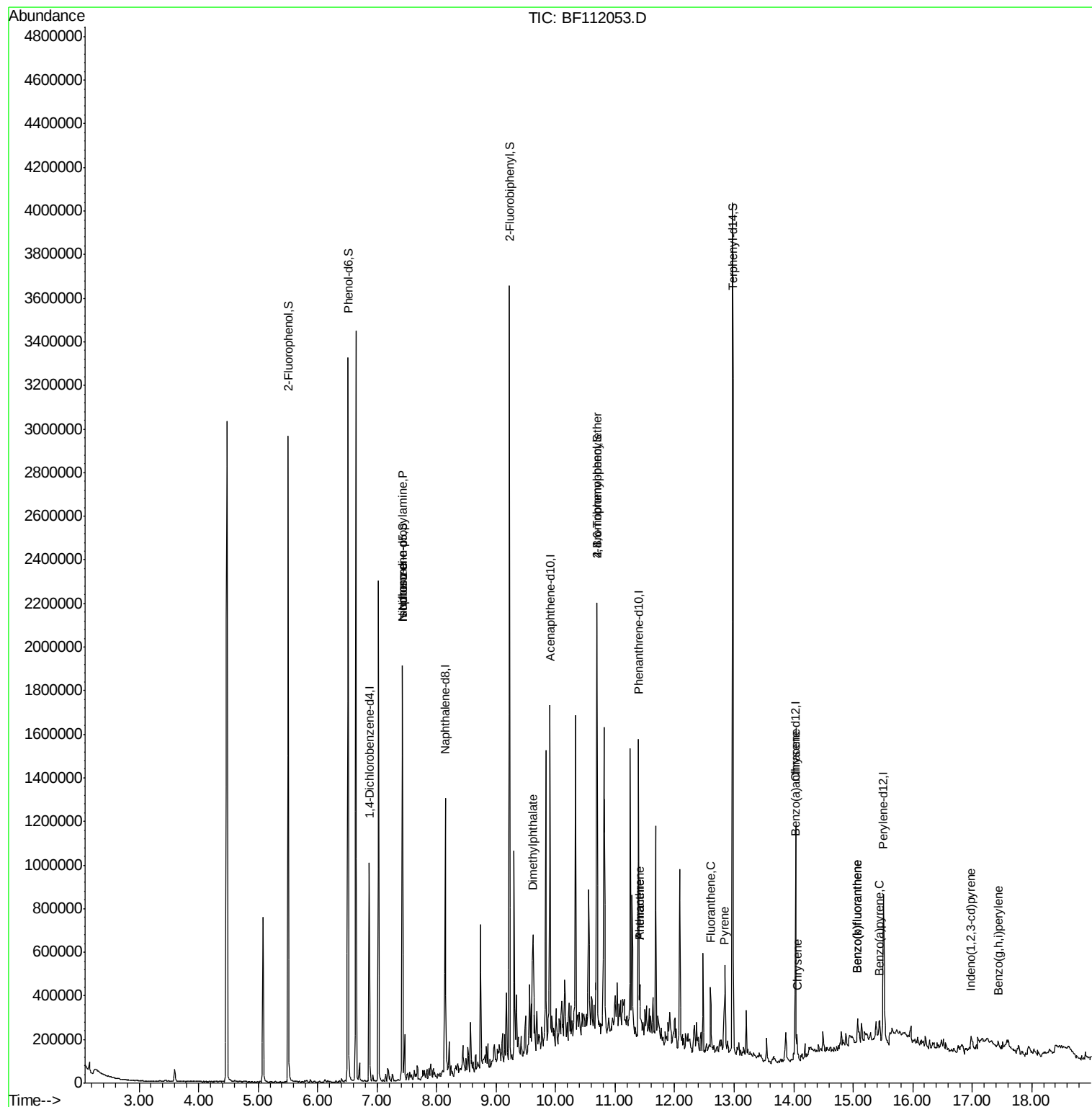
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.52	77	2130	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.43	70	81142	10.828	ng	# 78
25) Isophorone	7.43	82	591009	35.621	ng	# 65
50) Dimethylphthalate	9.62	163	114530	5.220	ng	# 97
67) 4-Bromophenyl-phenylether	10.70	248	15767	2.650	ng	# 1
71) Phenanthrene	11.42	178	76972	3.134	ng	# 99
72) Anthracene	11.42	178	76972	3.087	ng	# 99
75) Fluoranthene	12.60	202	108243	4.293	ng	# 99
78) Pyrene	12.83	202	108359	4.793	ng	# 98
81) Benzo(a)anthracene	14.02	228	43105	2.280	ng	# 97
83) Chrysene	14.06	228	40387	2.240	ng	# 96
86) Indeno(1,2,3-cd)pyrene	16.99	276	29758	2.264	ng	# 94
88) Benzo(b)fluoranthene	15.07	252	82149	4.043	ng	# 93
89) Benzo(k)fluoranthene	15.07	252	82149	4.301	ng	# 95
90) Benzo(a)pyrene	15.44	252	46453	2.600	ng	# 96
92) Benzo(g,h,i)perylene	17.44	276	29808	2.121	ng	# 97

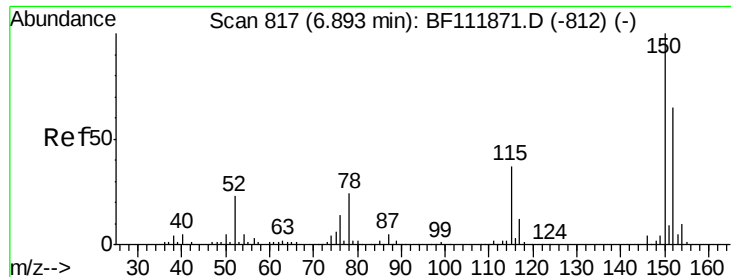
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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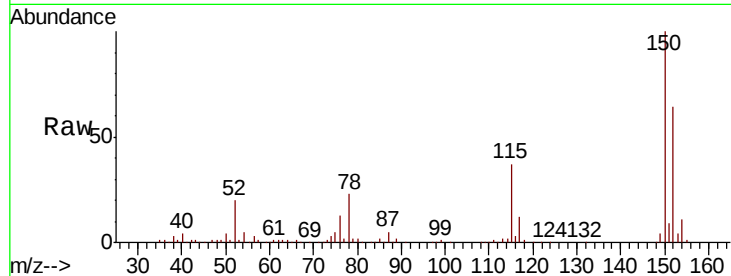


#1

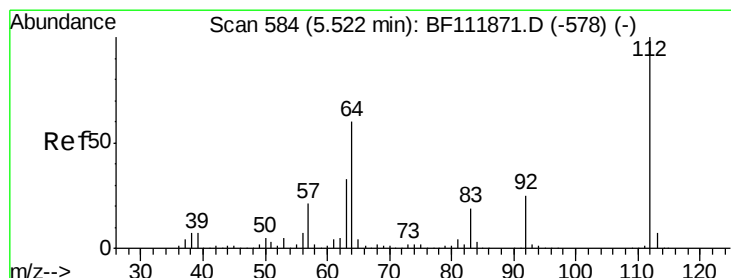
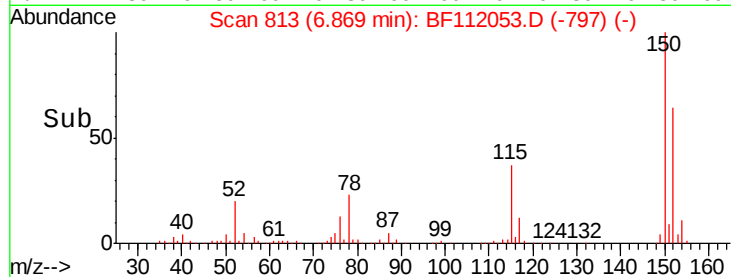
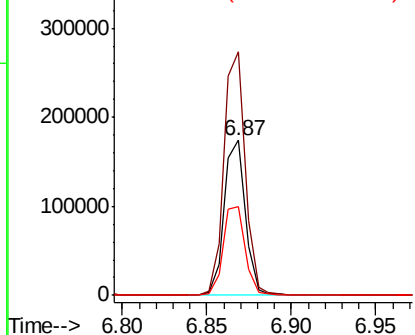
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.01 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

Instrument :
BNA_F
ClientSampleId :
CONCRETE-PILE

Tgt Ion:152 Resp: 153088
Ion Ratio Lower Upper
152 100
150 157.2 122.7 184.1
115 57.4 45.2 67.8



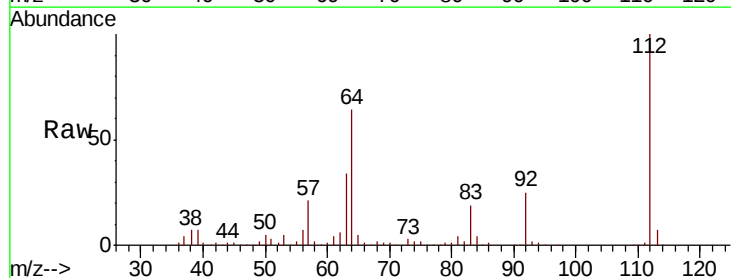
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



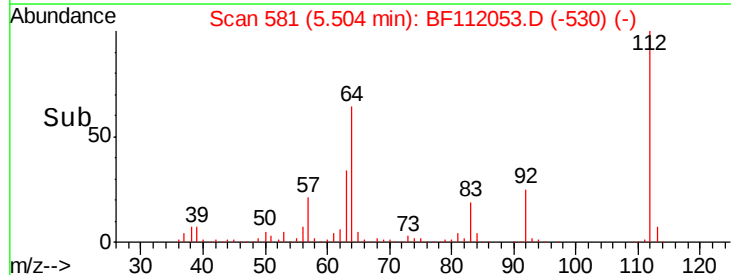
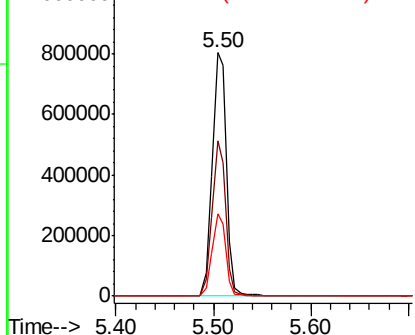
#5

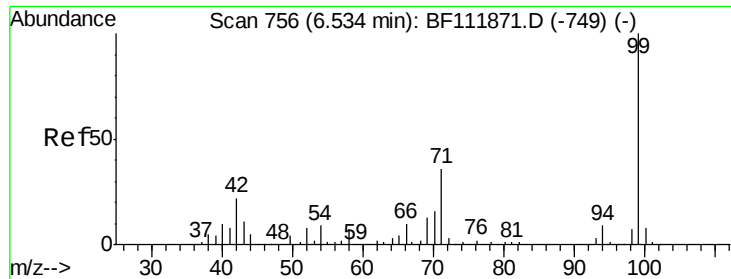
2-Fluorophenol
Concen: 90.562 ng
RT: 5.50 min Scan# 581
Delta R.T. -0.00 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

Tgt Ion:112 Resp: 810374
Ion Ratio Lower Upper
112 100
64 63.8 48.3 72.5
63 33.9 26.1 39.1



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: 100.461 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

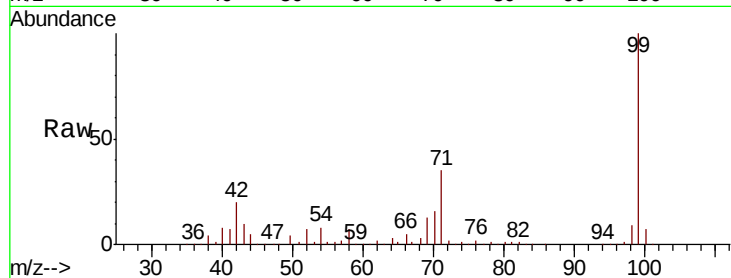
Tgt Ion: 99 Resp: 1158636

Ion Ratio Lower Upper

99 100

42 20.1 17.9 26.9

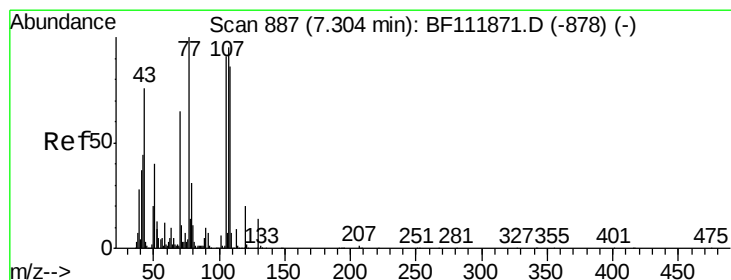
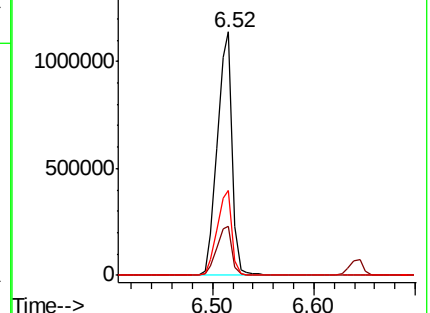
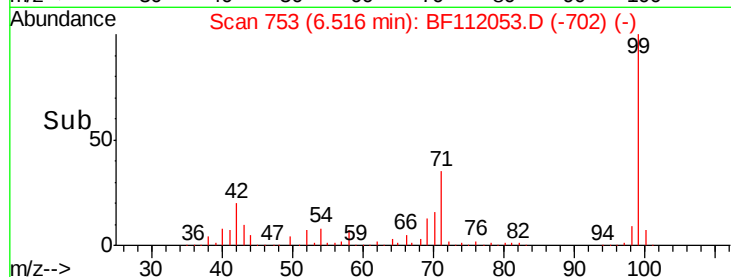
71 35.0 28.7 43.1



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: 10.828 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Tgt Ion: 70 Resp: 81142

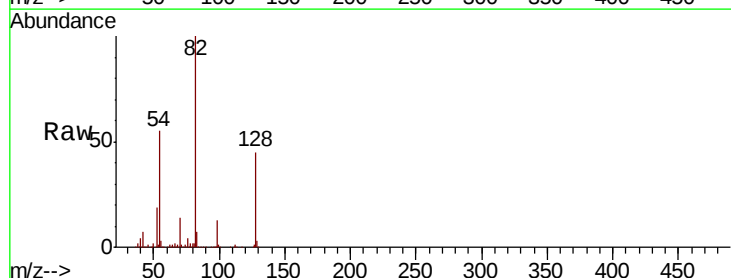
Ion Ratio Lower Upper

70 100

42 54.2 53.6 80.4

101 0.0 7.3 10.9#

130 1.5 16.8 25.2#

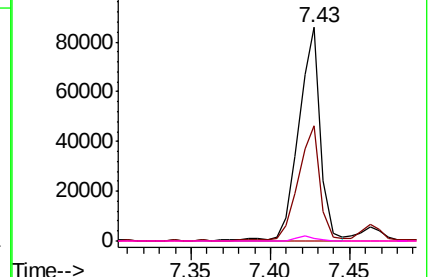
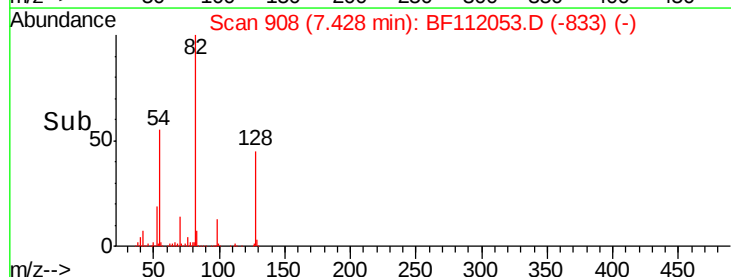


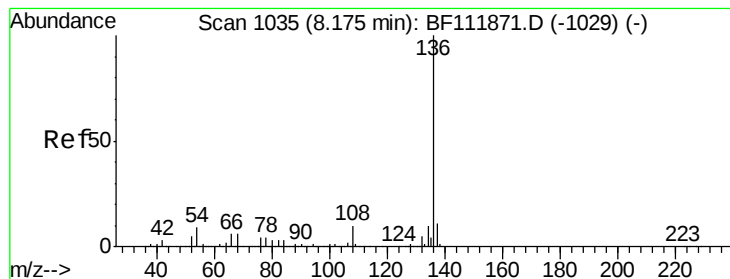
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

Tgt Ion: 136 Resp: 547599

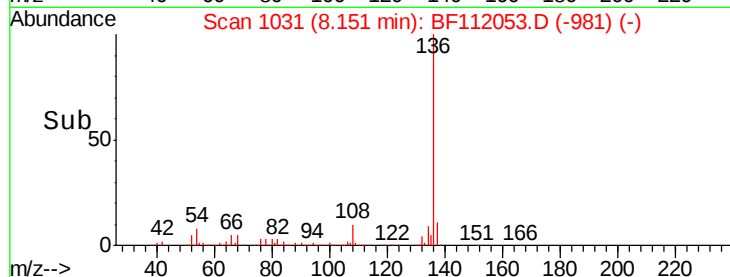
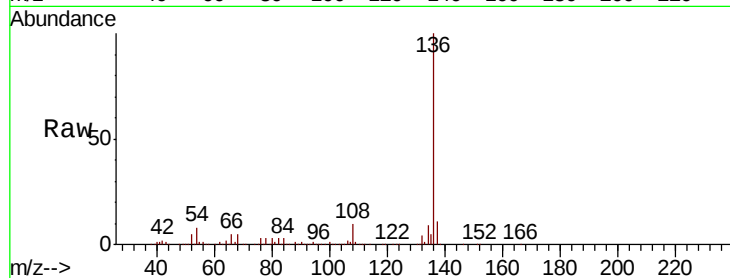
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 7.8 7.2 10.8

68 4.9 4.4 6.6

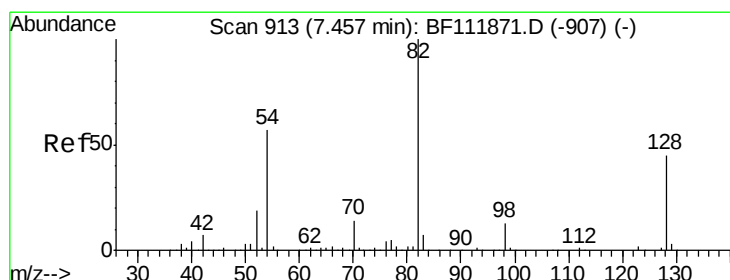
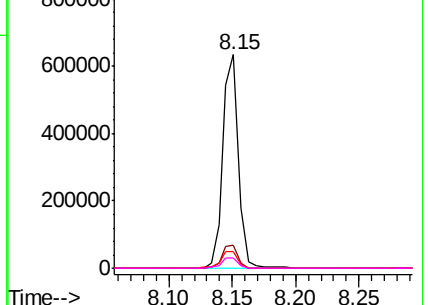


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.170 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

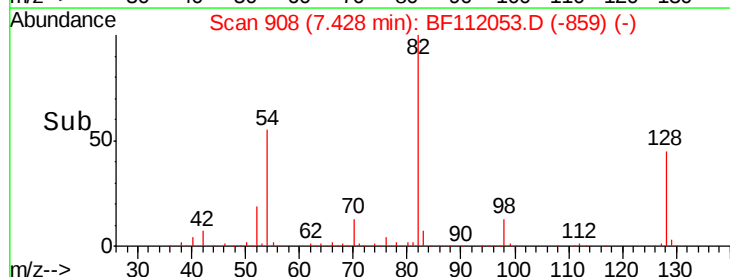
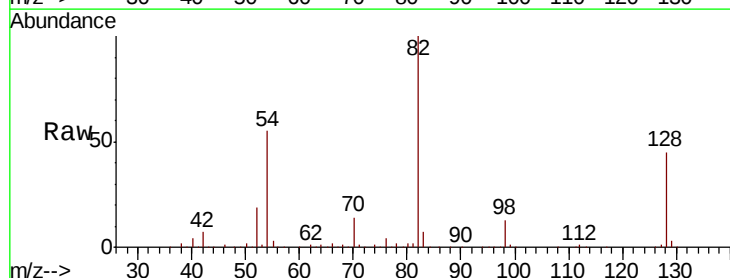
Tgt Ion: 82 Resp: 596005

Ion Ratio Lower Upper

82 100

128 45.4 35.7 53.5

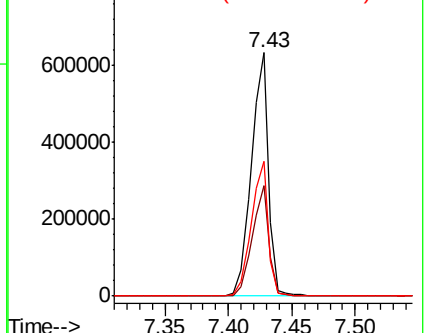
54 55.2 45.8 68.8

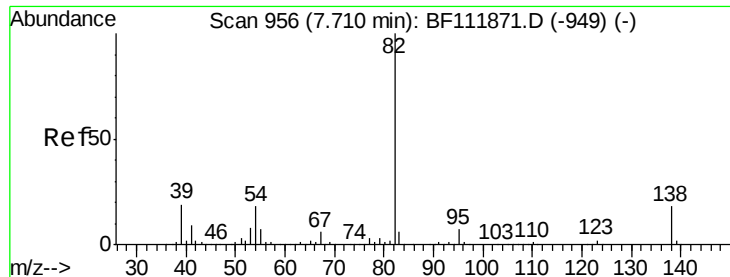


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.621 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

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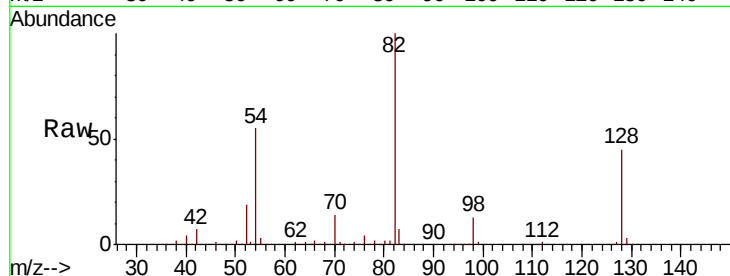
Tgt Ion: 82 Resp: 591009

Ion Ratio Lower Upper

82 100

95 0.1 5.8 8.6#

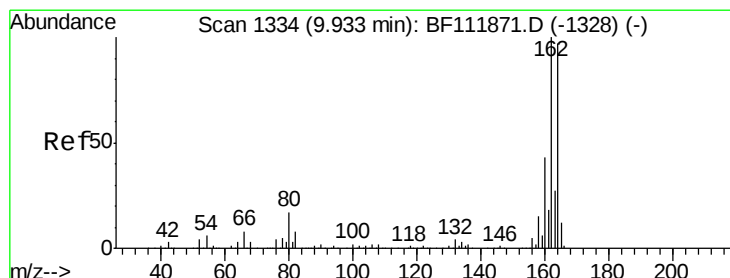
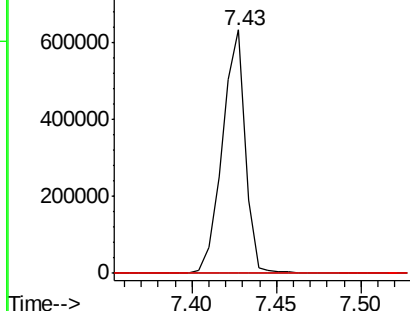
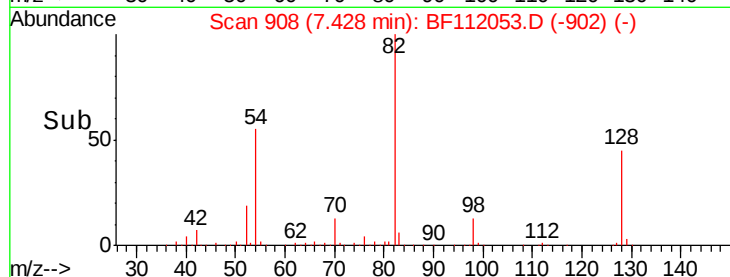
138 0.0 14.4 21.6#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

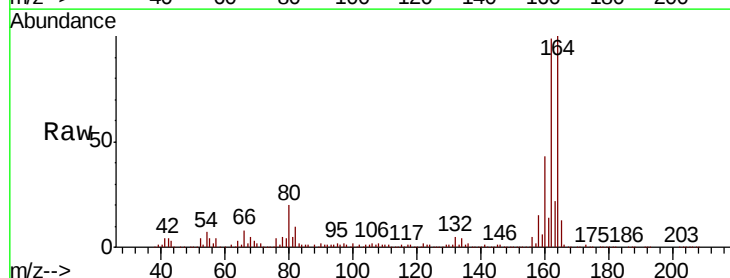
Tgt Ion: 164 Resp: 292072

Ion Ratio Lower Upper

164 100

162 99.4 82.2 123.2

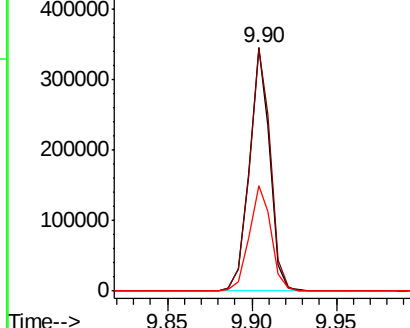
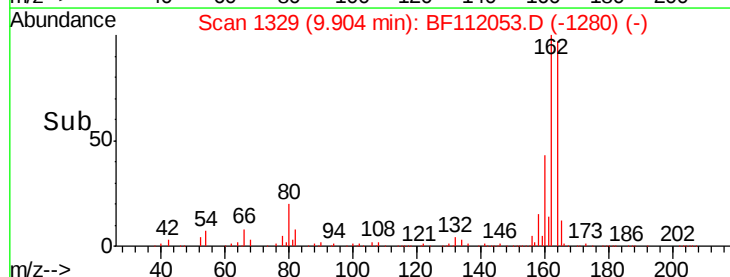
160 43.1 35.5 53.3

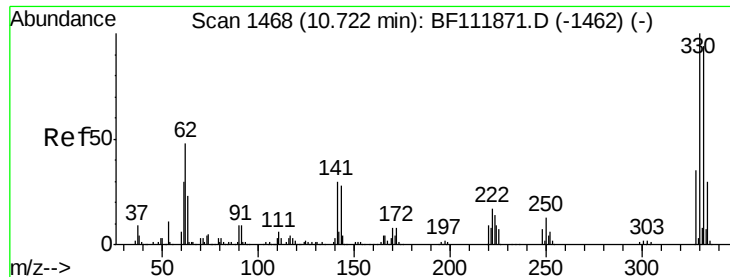


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

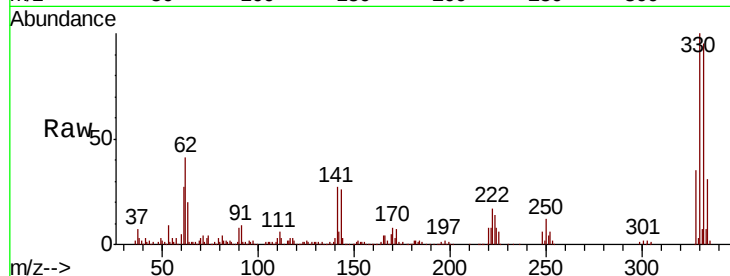




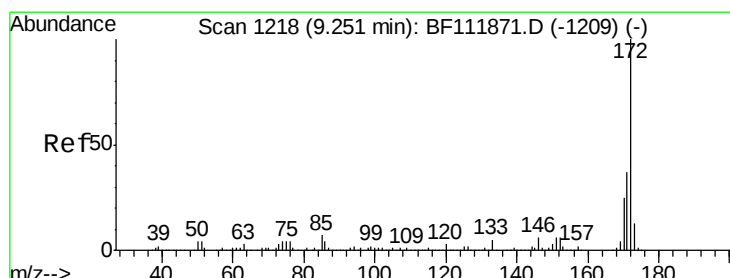
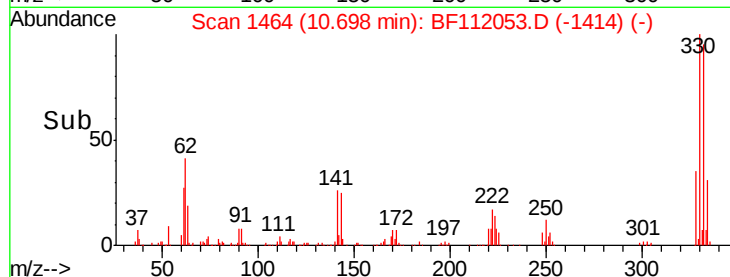
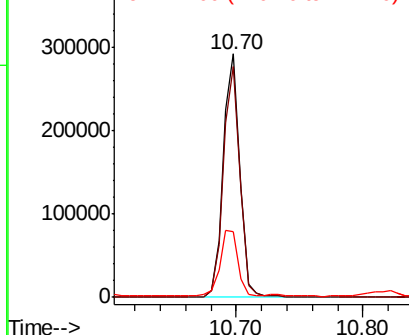
#42
 2,4,6-Tribromophenol
 Concen: 70.450 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.01 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Instrument :
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Tgt Ion:330 Resp: 267638
 Ion Ratio Lower Upper
 330 100
 332 95.2 76.9 115.3
 141 29.1 23.7 35.5

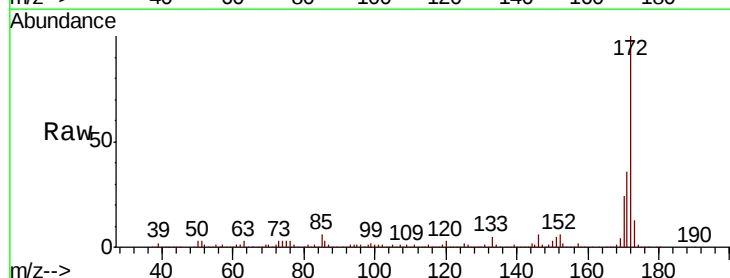


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

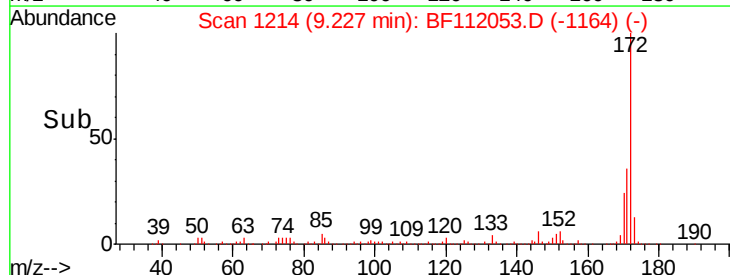
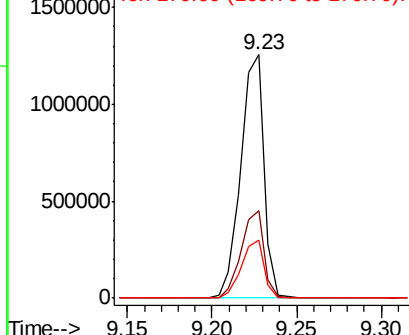


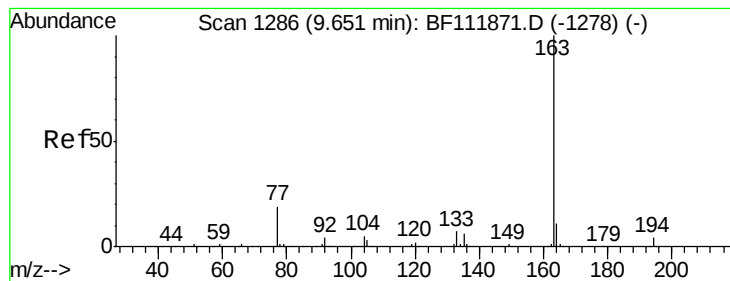
#45
 2-Fluorobiphenyl
 Concen: 60.107 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Tgt Ion:172 Resp: 1203928
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.6 44.4
 170 23.8 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 5.220 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.02 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

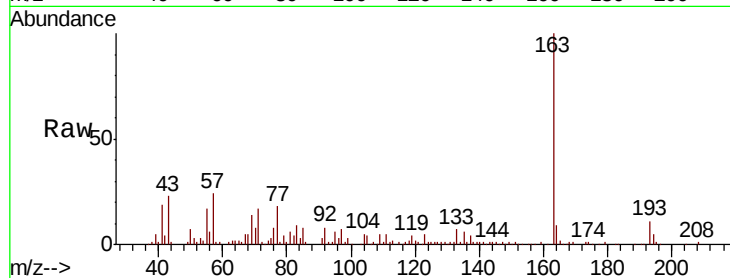
Tgt Ion:163 Resp: 114530

Ion Ratio Lower Upper

163 100

194 5.2 3.4 5.2

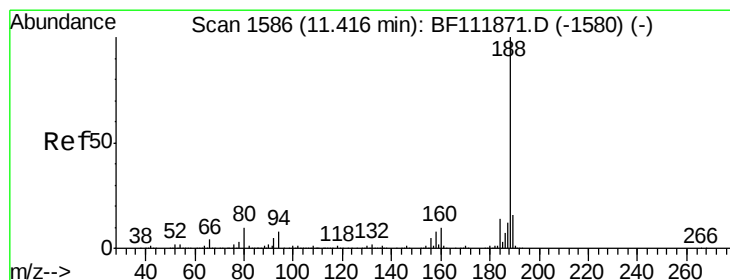
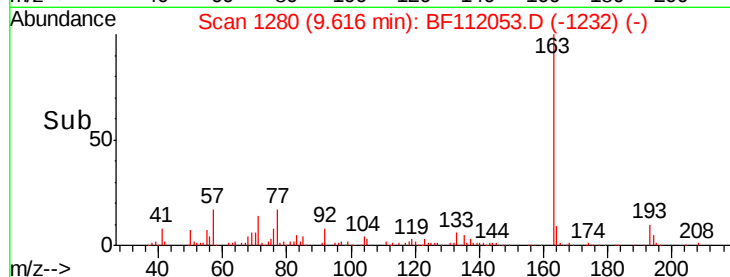
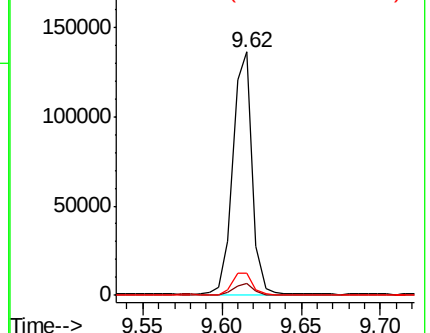
164 9.3 8.5 12.7



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

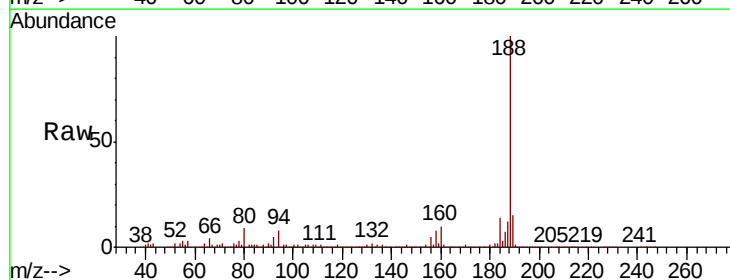
Tgt Ion:188 Resp: 459377

Ion Ratio Lower Upper

188 100

94 8.4 6.6 10.0

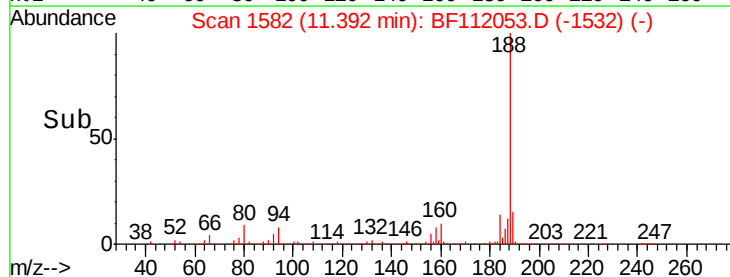
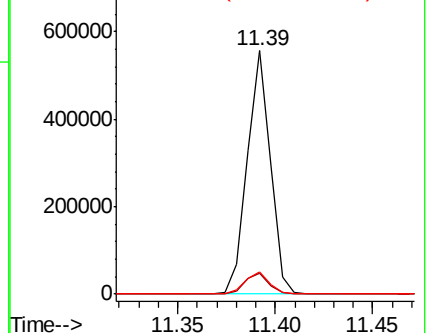
80 9.2 7.7 11.5

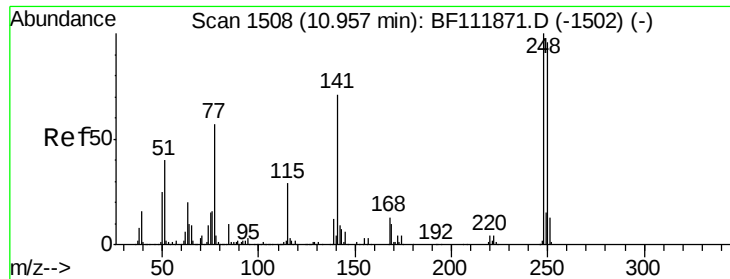


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

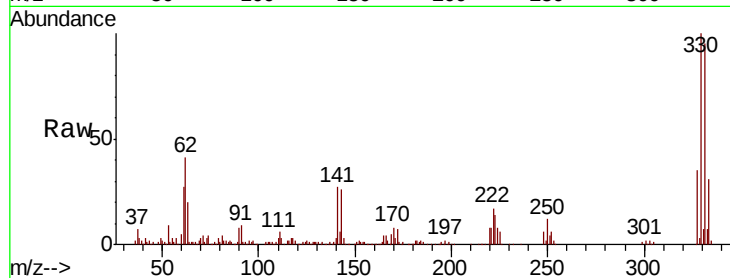




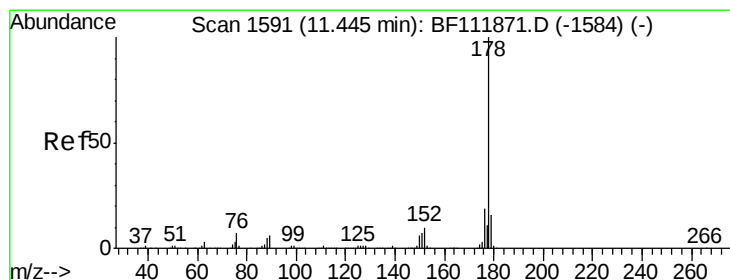
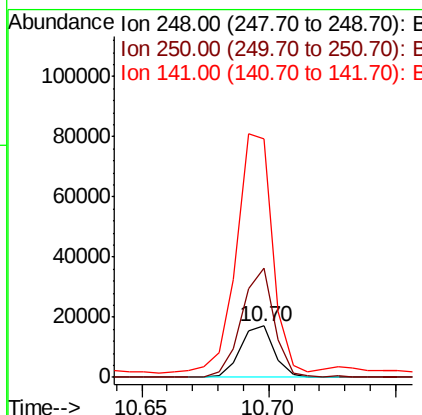
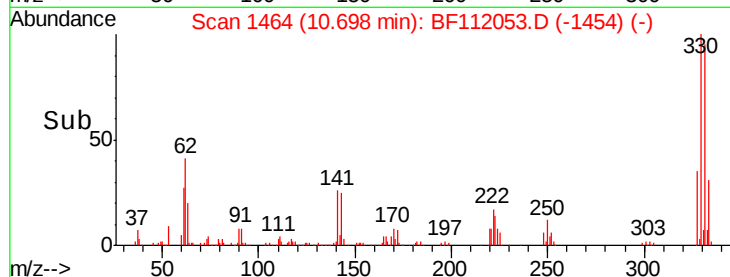
#67
 4-Bromophenyl-phenylether
 Concen: 2.650 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.24 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CONCRETE-PILE

Tgt Ion:248 Resp: 15767
 Ion Ratio Lower Upper
 248 100
 250 212.2 76.8 115.2#
 141 464.7 57.0 85.6#

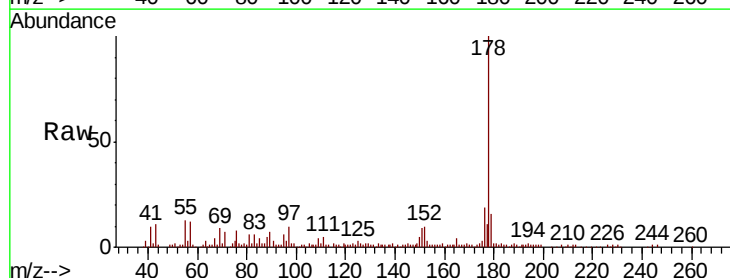


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

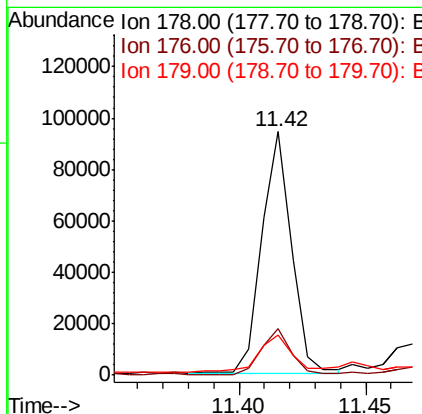
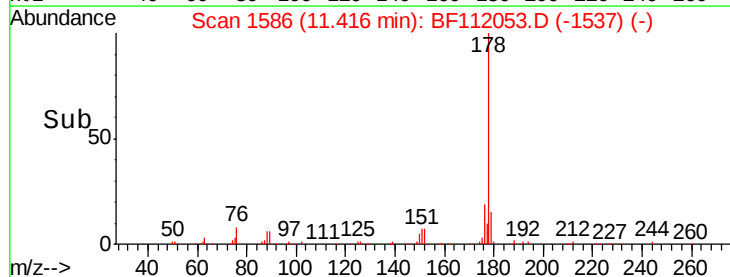


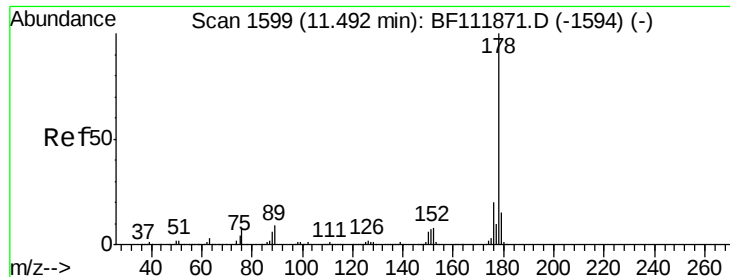
#71
 Phenanthrene
 Concen: 3.134 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Tgt Ion:178 Resp: 76972
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.6 23.4
 179 16.3 12.6 18.8



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: 3.087 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.06 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

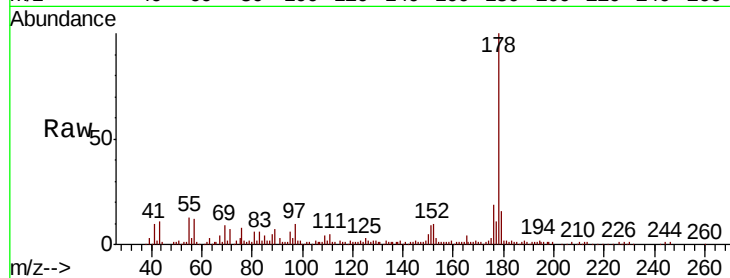
Tgt Ion:178 Resp: 76972

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

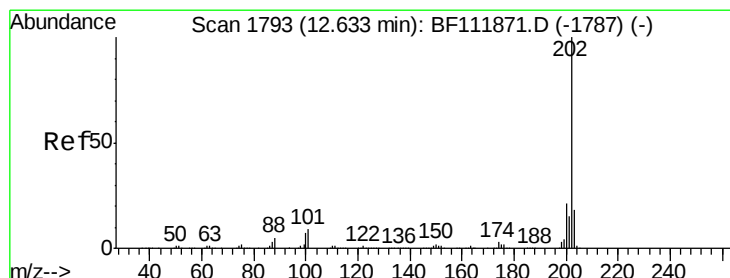
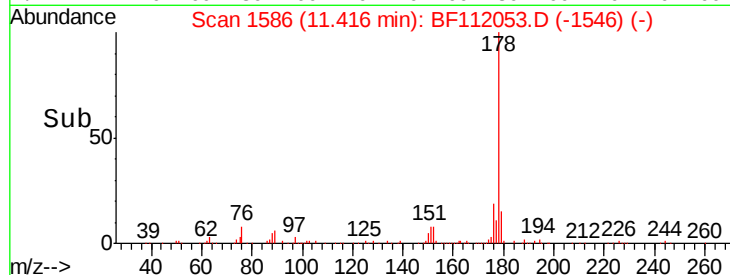
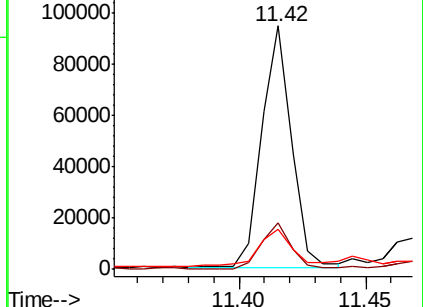
179 16.3 12.4 18.6



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: 4.293 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

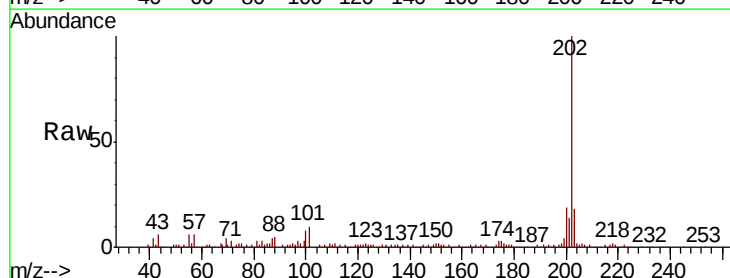
Tgt Ion:202 Resp: 108243

Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.3

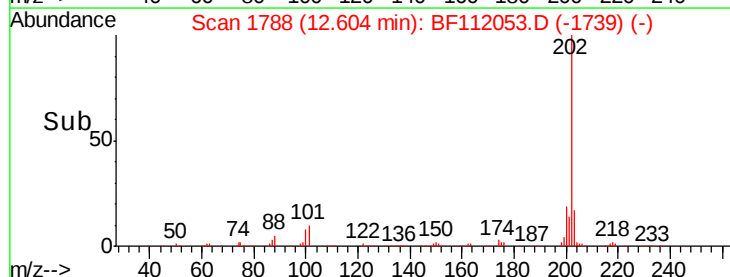
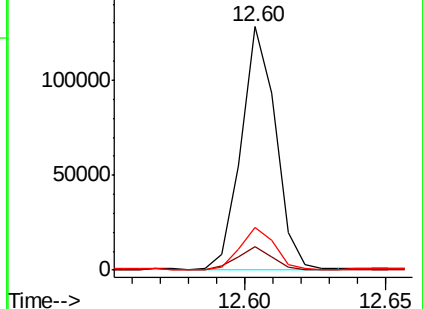
203 17.6 0.0 37.6

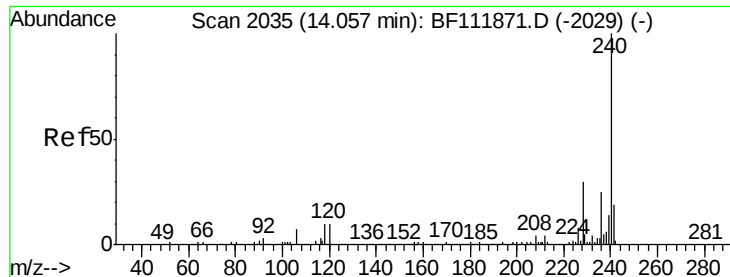


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

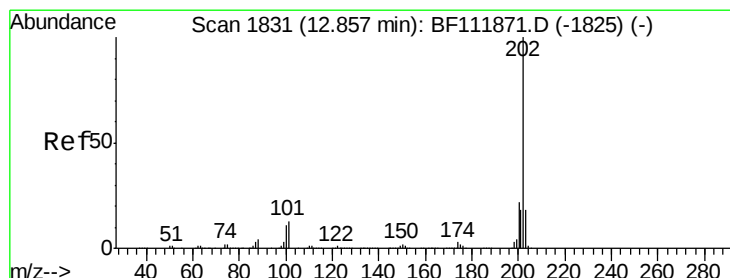
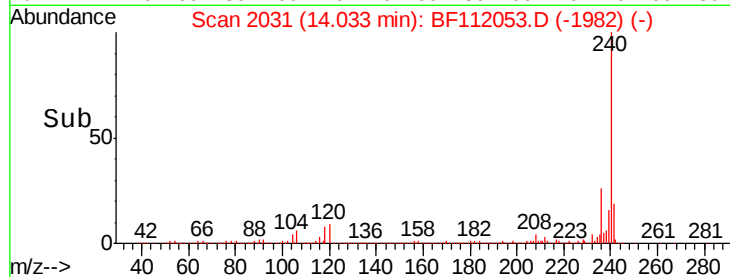
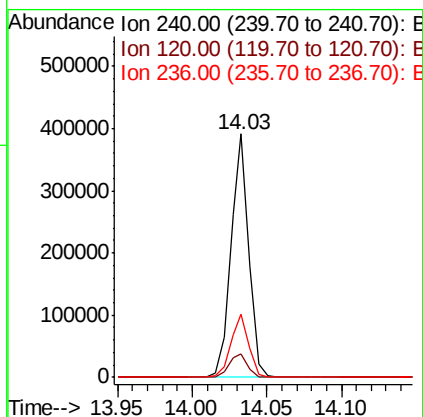
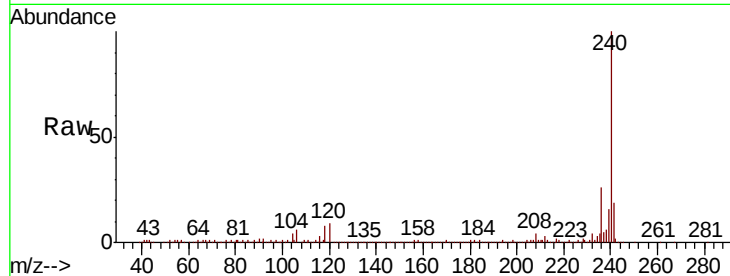




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

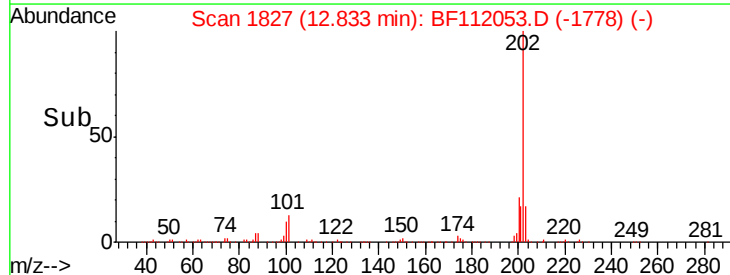
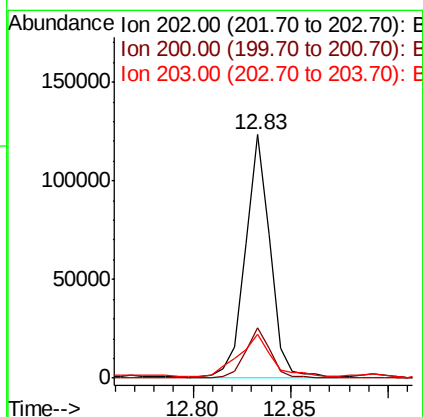
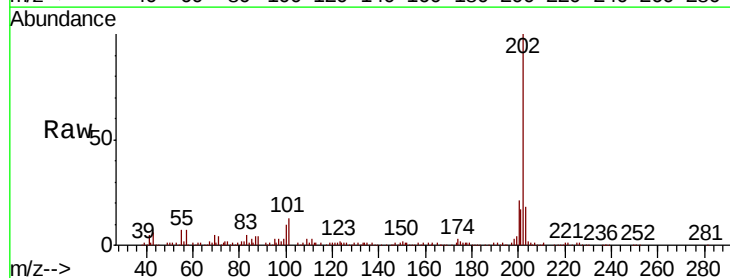
Instrument :
BNA_F
ClientSampleId :
CONCRETE-PILE

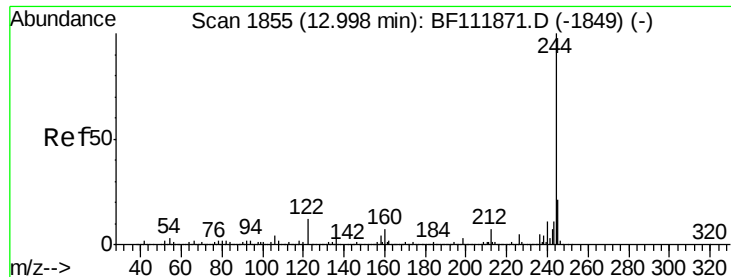
Tgt Ion:240 Resp: 328556
Ion Ratio Lower Upper
240 100
120 9.4 8.2 12.2
236 25.9 20.2 30.4



#78
Pyrene
Concen: 4.793 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.01 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

Tgt Ion:202 Resp: 108359
Ion Ratio Lower Upper
202 100
200 20.8 17.4 26.2
203 17.9 14.6 21.8

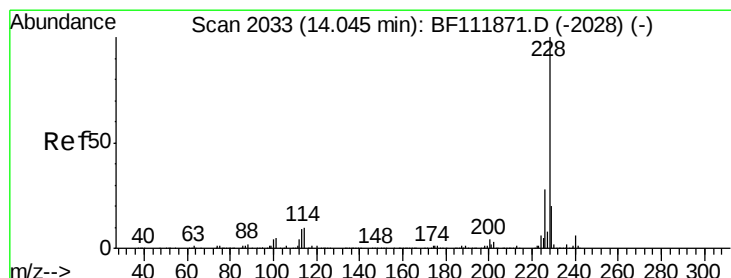
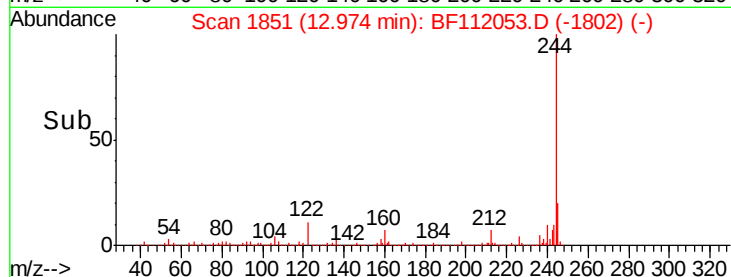
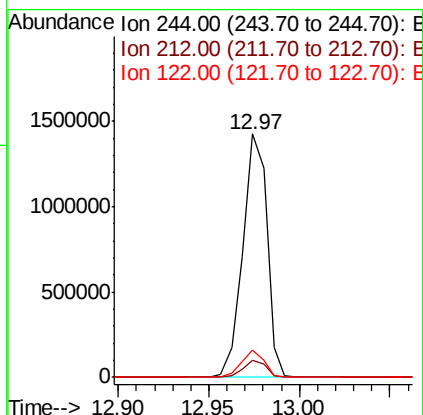
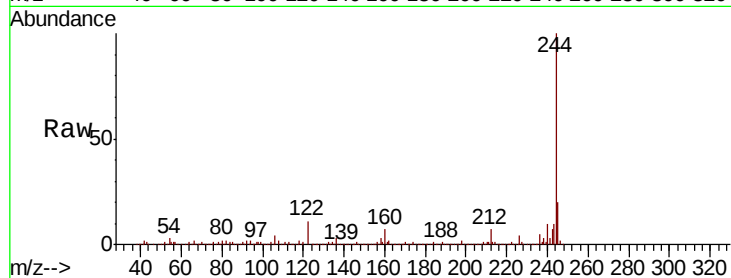




#79
 Terphenyl-d14
 Concen: 76.221 ng
 RT: 12.97 min Scan# 1851
 Delta R.T. -0.01 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

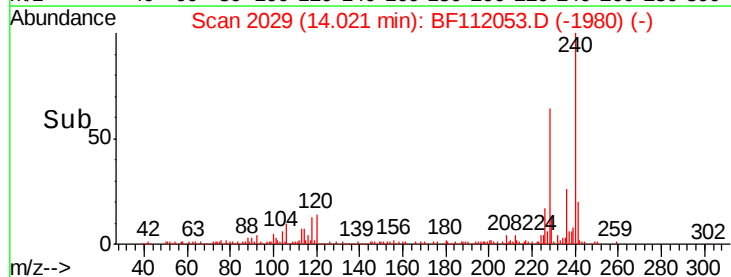
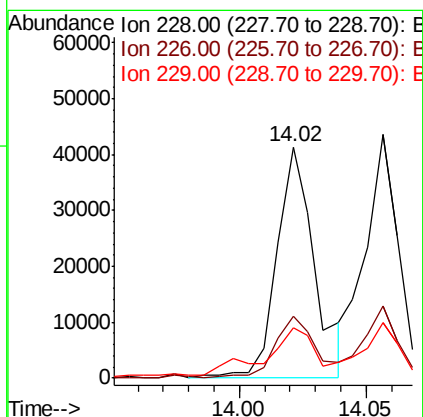
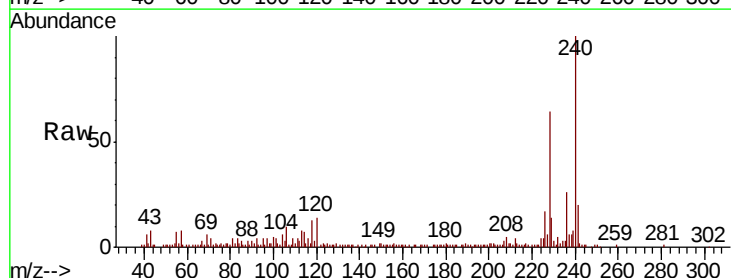
Instrument :
 BNA_F
 ClientSampleId :
 CONCRETE-PILE

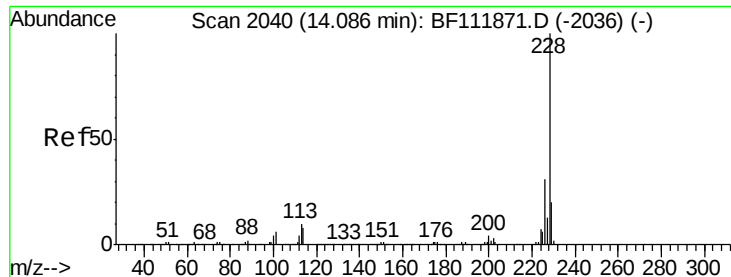
Tgt Ion:244 Resp: 1319288
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.8
 122 11.0 9.5 14.3



#81
 Benzo(a)anthracene
 Concen: 2.280 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Tgt Ion:228 Resp: 43105
 Ion Ratio Lower Upper
 228 100
 226 26.5 22.2 33.2
 229 21.7 16.2 24.2





#83

Chrysene

Concen: 2.240 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

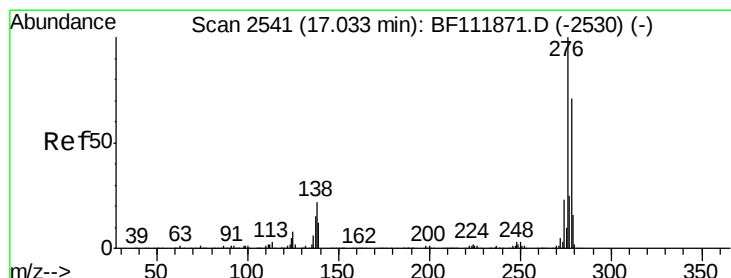
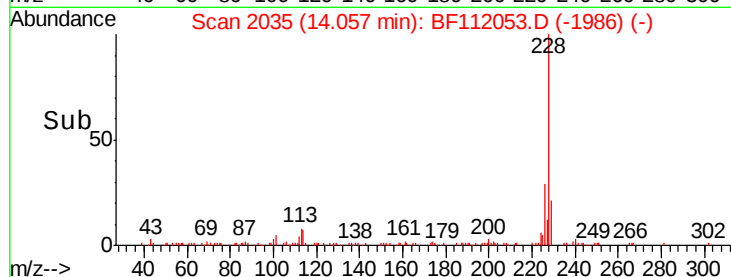
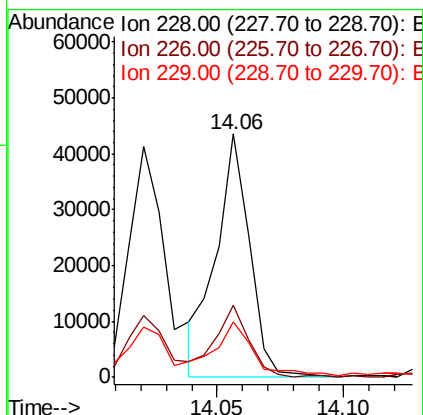
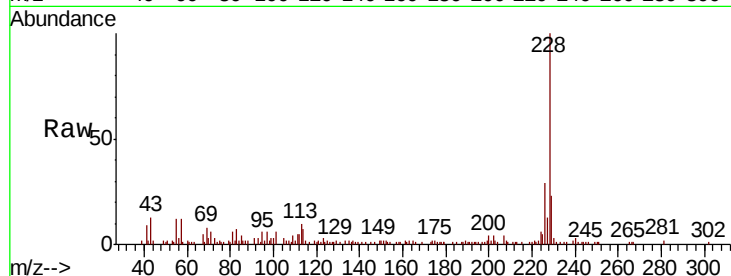
Tgt Ion:228 Resp: 40387

Ion Ratio Lower Upper

228 100

226 29.4 24.6 37.0

229 22.9 15.7 23.5



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.264 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.02 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

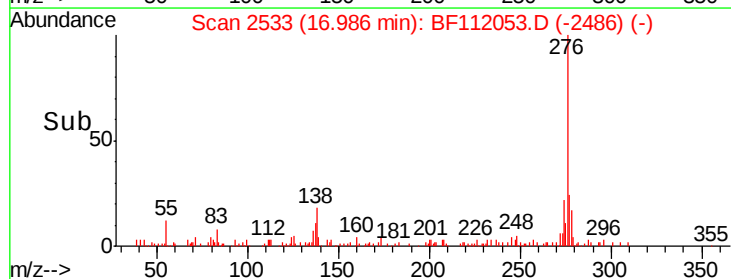
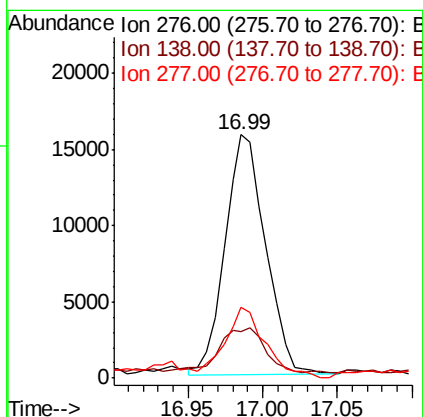
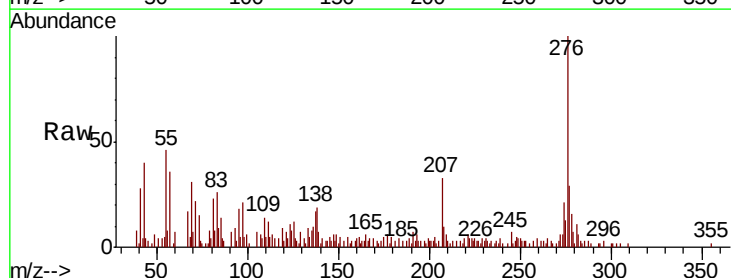
Tgt Ion:276 Resp: 29758

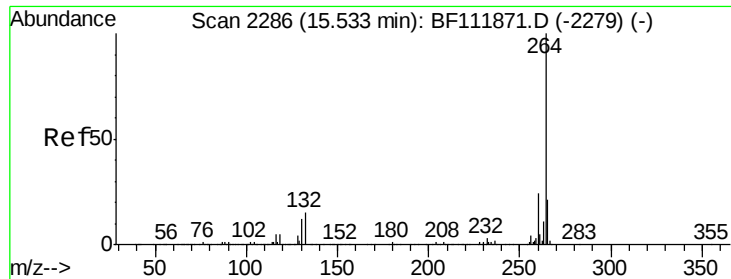
Ion Ratio Lower Upper

276 100

138 21.8 18.1 27.1

277 29.6 19.9 29.9





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.51 min Scan# 2282

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

Instrument :

BNA_F

ClientSampleId :

CONCRETE-PILE

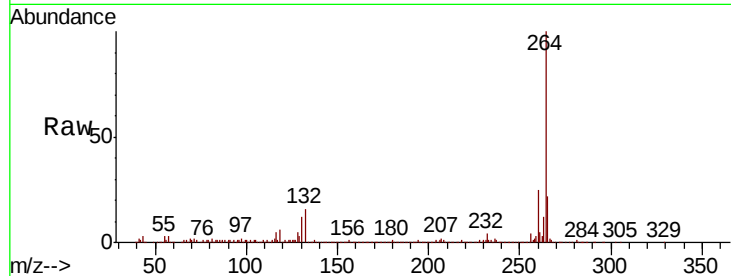
Tgt Ion:264 Resp: 339687

Ion Ratio Lower Upper

264 100

260 24.9 19.2 28.8

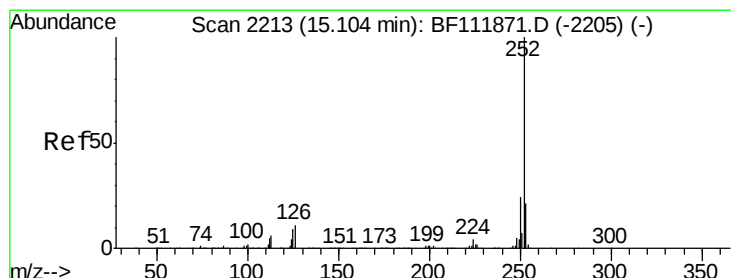
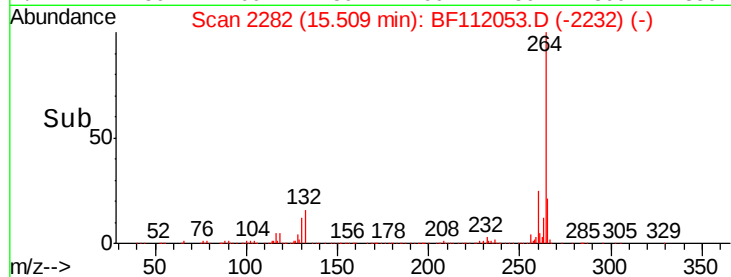
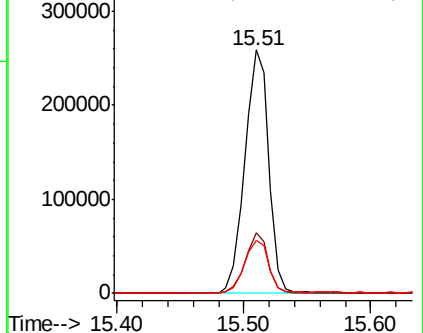
265 21.5 17.1 25.7



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: 4.043 ng

RT: 15.07 min Scan# 2208

Delta R.T. -0.01 min

Lab File: BF112053.D

Acq: 14 Jan 2019 16:25

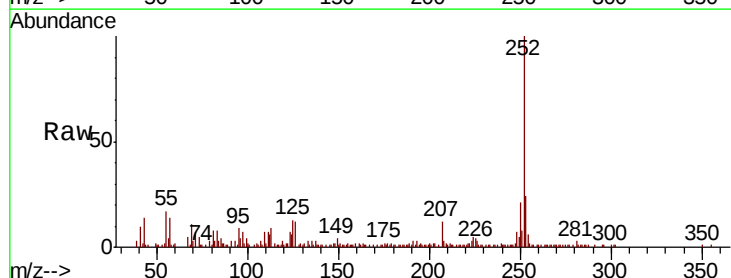
Tgt Ion:252 Resp: 82149

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.6

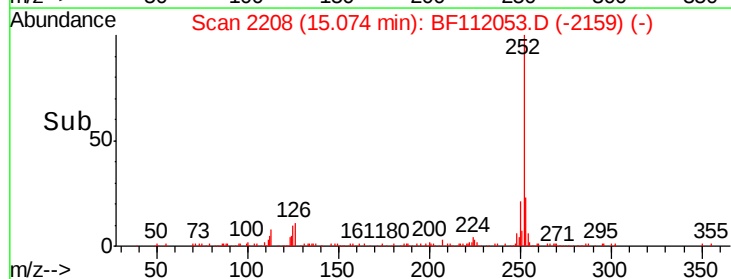
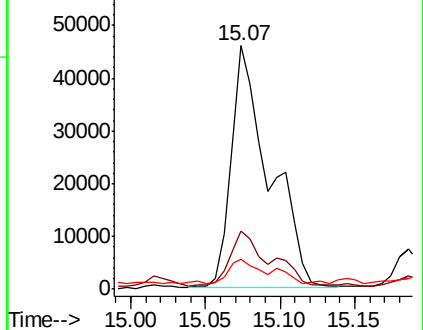
125 12.5 7.1 10.7#

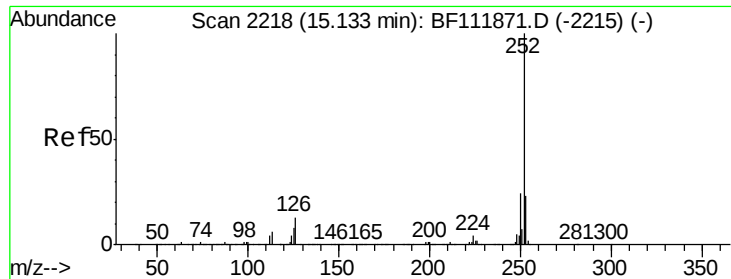


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

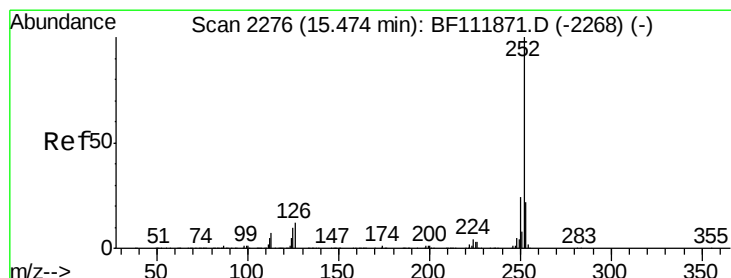
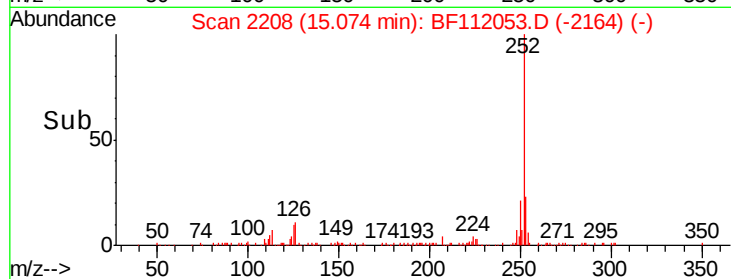
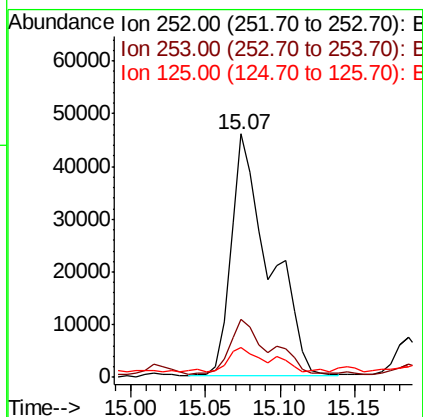
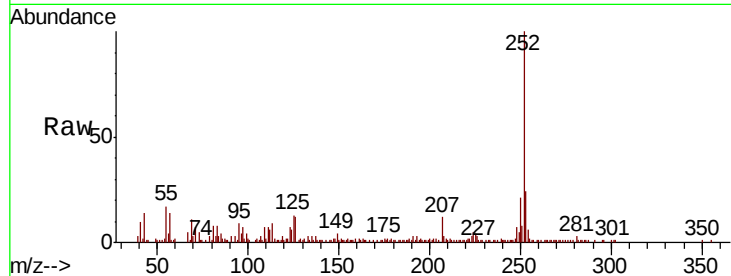




#89
Benzo(k)fluoranthene
Concen: 4.301 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.04 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

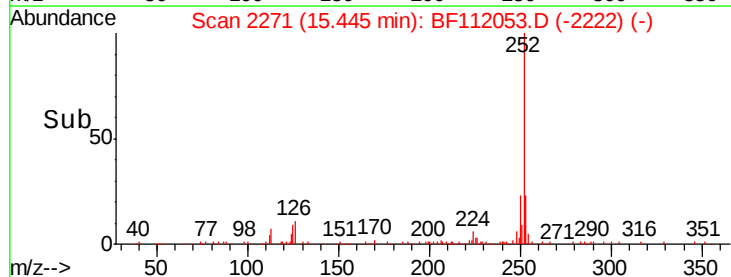
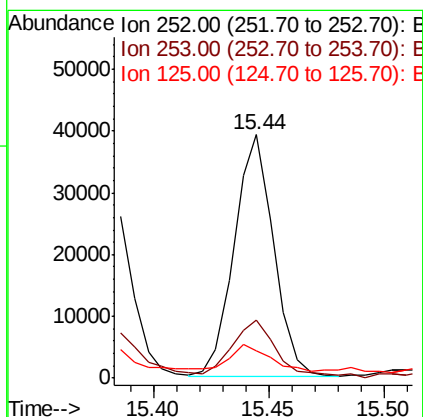
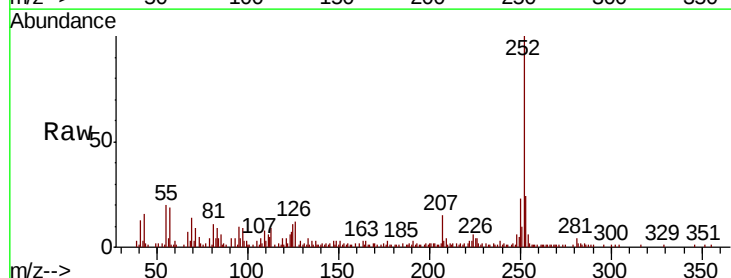
Instrument :
BNA_F
ClientSampleId :
CONCRETE-PILE

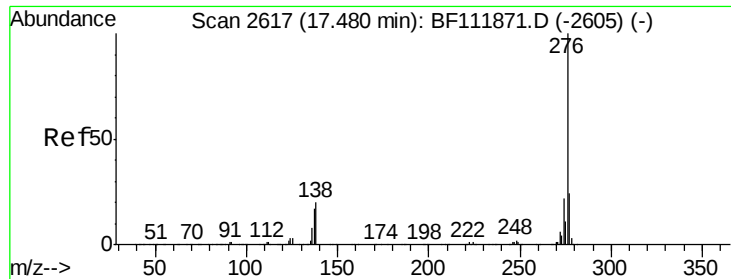
Tgt Ion:252 Resp: 82149
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.6
125 12.5 7.0 10.4#



#90
Benzo(a)pyrene
Concen: 2.600 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF112053.D
Acq: 14 Jan 2019 16:25

Tgt Ion:252 Resp: 46453
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.2
125 11.5 7.9 11.9

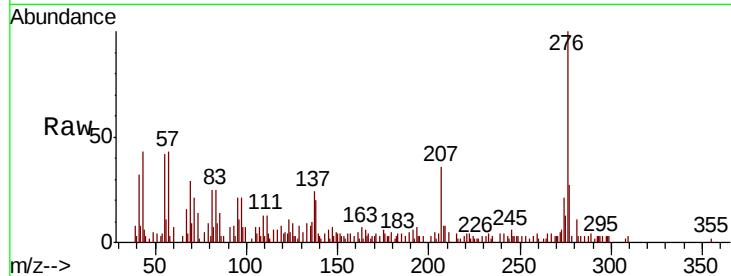




#92
 Benzo(g,h,i)perylene
 Concen: 2.121 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. -0.02 min
 Lab File: BF112053.D
 Acq: 14 Jan 2019 16:25

Instrument :
 BNA_F
 ClientSampleId :
 CONCRETE-PILE

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	19.0	28.6
138	20.1	16.2	24.2



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

