

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073020\
 Data File : BF121135.D
 Acq On : 30 Jul 2020 18:45
 Operator : JU/CG
 Sample : L3183-18 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-072820

Quant Time: Jul 31 00:31:07 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 29 14:55:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	132949	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	513053	20.00	ng	-0.01
39) Acenaphthene-d10	9.83	164	264644	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	503366	20.00	ng	0.00
76) Chrysene-d12	13.97	240	327423	20.00	ng	0.00
86) Perylene-d12	15.42	264	372067	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	347832	42.89	ng	-0.01
7) Phenol-d6	6.43	99	437280	41.74	ng	-0.02
23) Nitrobenzene-d5	7.35	82	276060	31.13	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	119201	41.15	ng	-0.01
45) 2-Fluorobiphenyl	9.15	172	556951	31.42	ng	-0.01
79) Terphenyl-d14	12.91	244	543489	36.08	ng	0.00

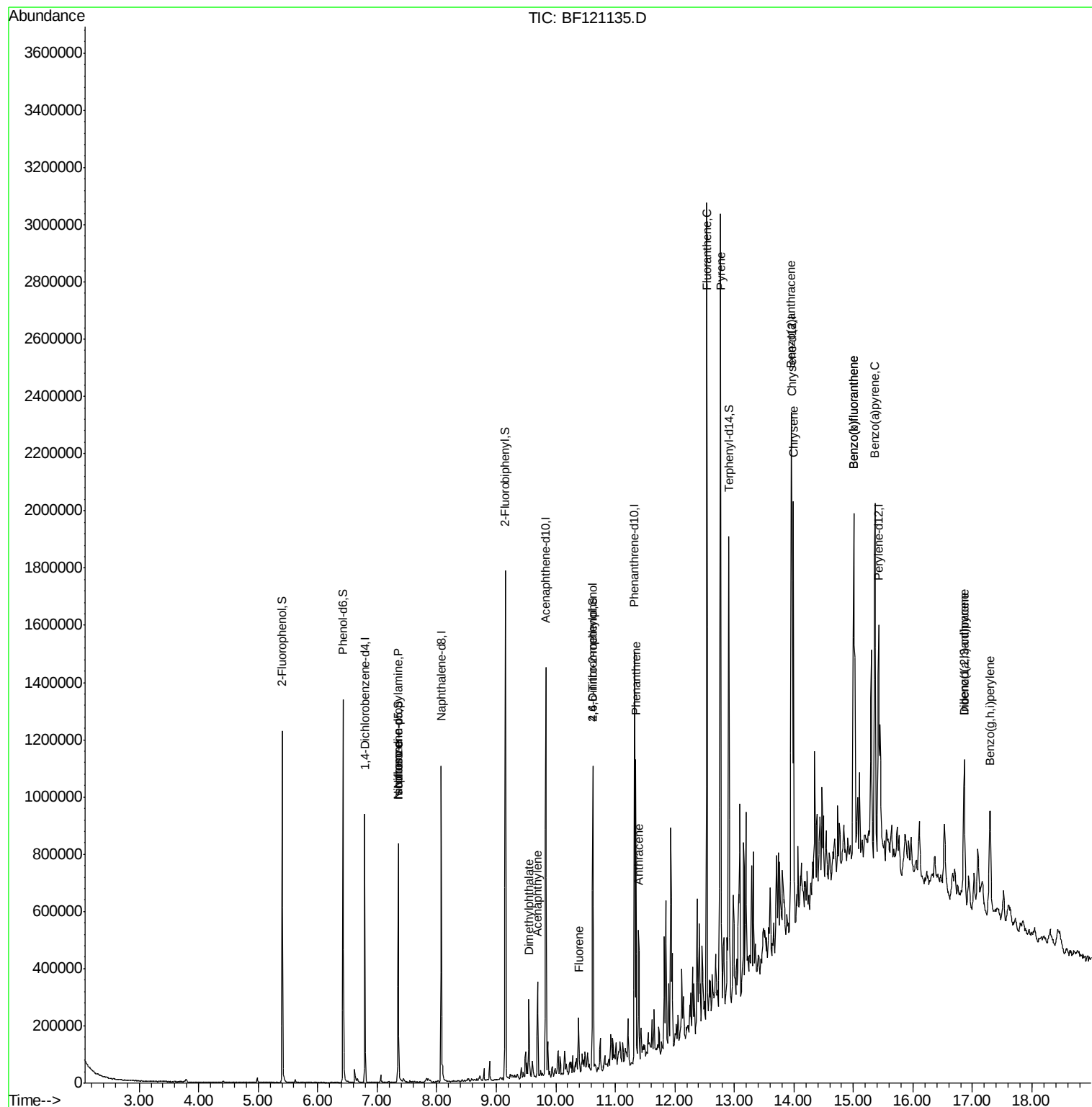
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.43	77	721	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.35	70	35405	5.944	ng	# 80
25) Isophorone	7.35	82	272185	15.381	ng	# 62
49) Acenaphthylene	9.69	152	120649	4.719	ng	99
50) Dimethylphthalate	9.55	163	98478	5.158	ng	99
58) Fluorene	10.38	166	51570	2.941	ng	99
65) 4,6-Dinitro-2-methylphenol	10.62	198	117	3.879	ng	# 1
71) Phenanthrene	11.35	178	356538	13.772	ng	99
72) Anthracene	11.39	178	172864	6.650	ng	97
75) Fluoranthene	12.54	202	1182627	41.213	ng	98
78) Pyrene	12.77	202	1291279	55.781	ng	100
81) Benzo(a)anthracene	13.96	228	657785	33.176	ng	95
83) Chrysene	13.99	228	603884	28.982	ng	97
87) Indeno(1,2,3-cd)pyrene	16.86	276	365109	14.110	ng	97
88) Benzo(b)fluoranthene	15.00	252	1043370	46.392	ng	# 97
89) Benzo(k)fluoranthene	15.00	252	1043370	50.869	ng	# 97
90) Benzo(a)pyrene	15.36	252	601677	29.323	ng	99
91) Dibenzo(a,h)anthracene	16.87	278	99676	4.716	ng	# 91
92) Benzo(a,h,i)perylene	17.30	276	330167	15.842	ng	99

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

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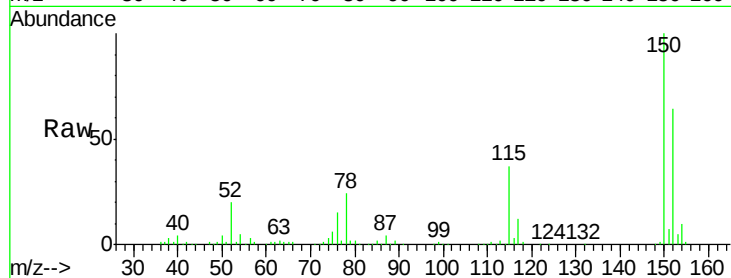


#1

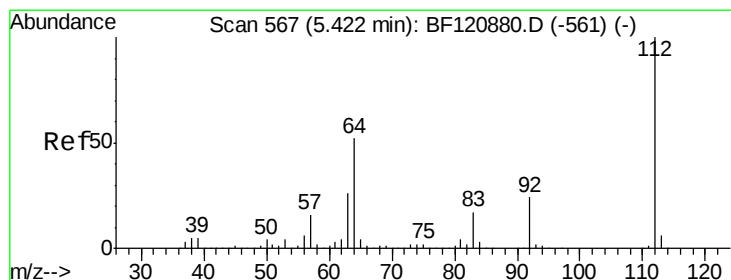
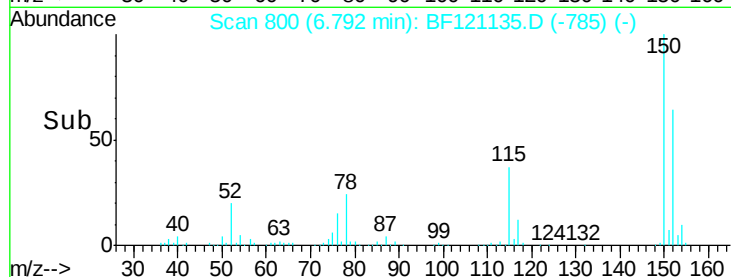
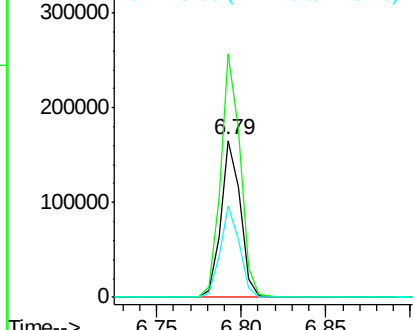
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF121135.D
Acq: 30 Jul 2020 18:45

Instrument :
BNA_F
ClientSampleId :
OK-02-072820

Tot Ion:152 Resp: 132949
Ion Ratio Lower Upper
152 100
150 155.4 125.6 188.4
115 58.2 46.2 69.2



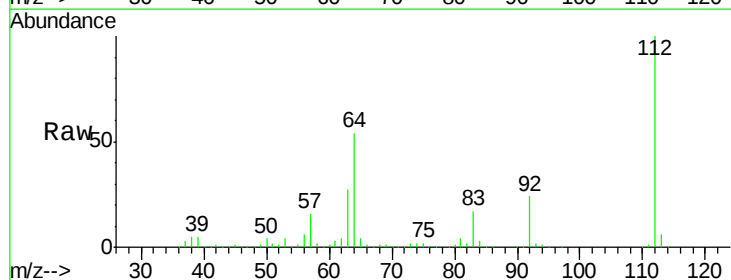
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



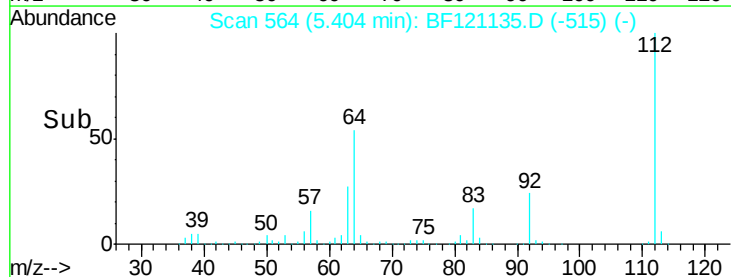
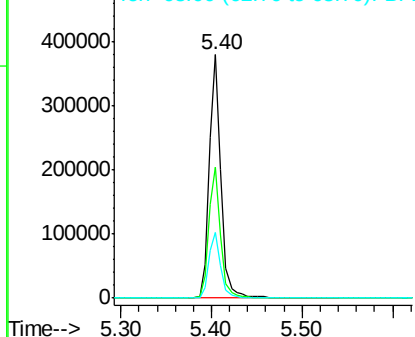
#5

2-Fluorophenol
Concen: 42.890 ng
RT: 5.40 min Scan# 564
Delta R.T. -0.01 min
Lab File: BF121135.D
Acq: 30 Jul 2020 18:45

Tgt Ion:112 Resp: 347832
Ion Ratio Lower Upper
112 100
64 53.7 43.9 65.9
63 26.8 22.7 34.1



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: 41.742 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

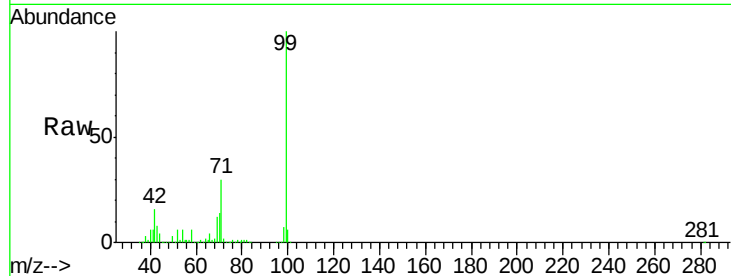
Tot Ion: 99 Resp: 437280

Ion Ratio Lower Upper

99 100

42 16.1 13.5 20.3

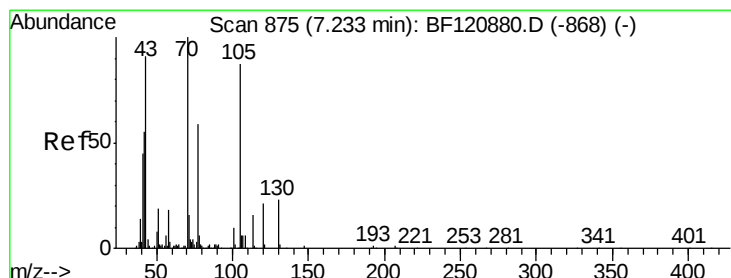
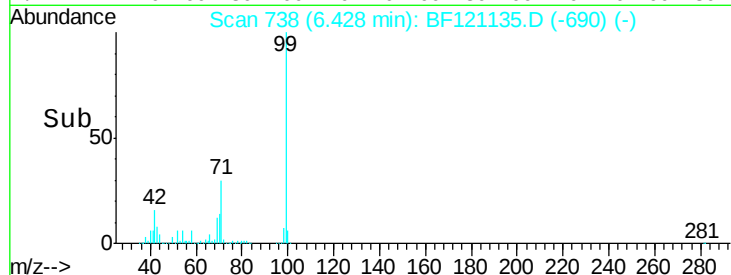
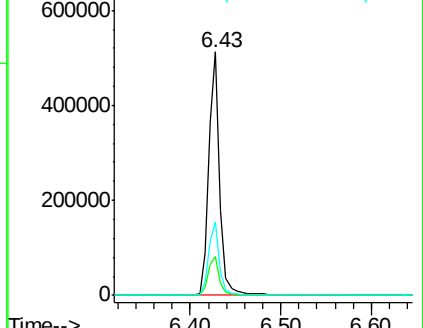
71 30.1 25.0 37.4



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: 5.944 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.12 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Tgt Ion: 70 Resp: 35405

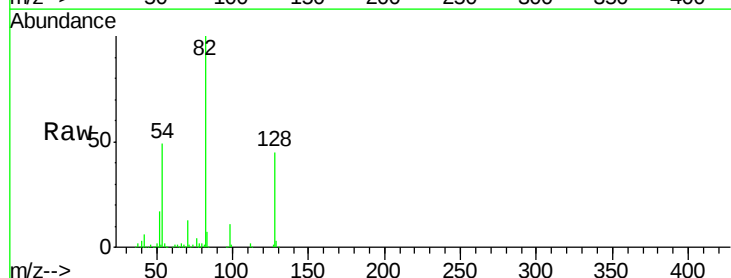
Ion Ratio Lower Upper

70 100

42 47.7 43.3 64.9

101 0.0 8.4 12.6#

130 2.1 18.7 28.1#

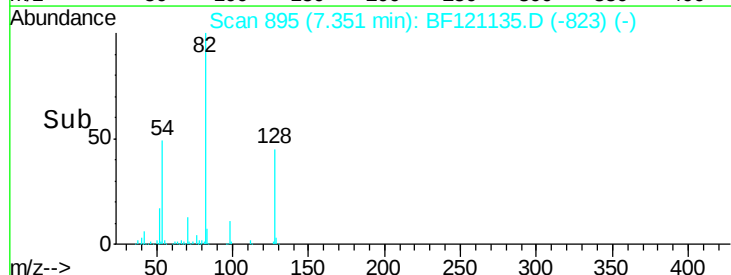
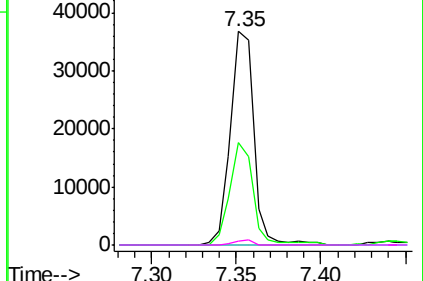


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

Tot Ion:136 Resp: 513053

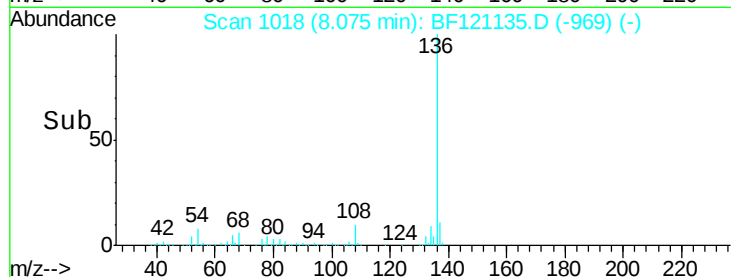
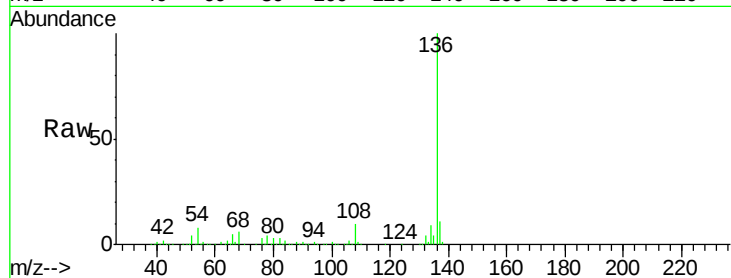
Ion Ratio Lower Upper

136 100

137 11.5 9.0 13.4

54 7.8 6.1 9.1

68 6.1 5.0 7.6



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

8.07

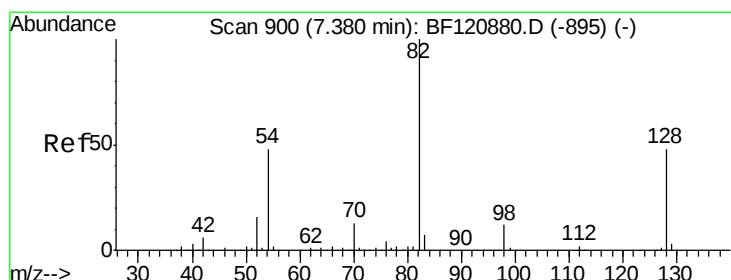
600000

400000

200000

0

Time-->



#23

Nitrobenzene-d5

Concen: 31.135 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

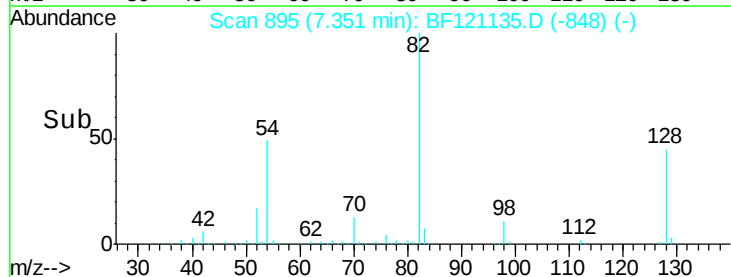
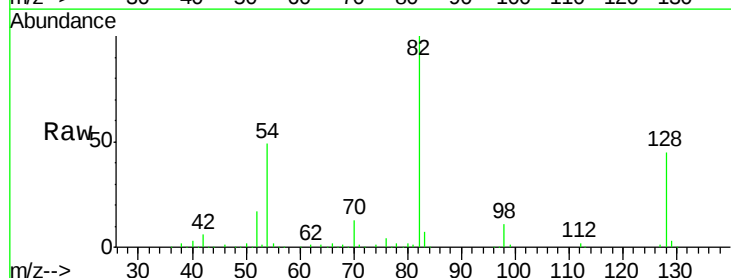
Tgt Ion: 82 Resp: 276060

Ion Ratio Lower Upper

82 100

128 45.4 39.2 58.8

54 49.3 37.8 56.8



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

7.35

400000

300000

200000

100000

0

Time-->



#25

Isophorone

Concen: 15.381 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.28 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

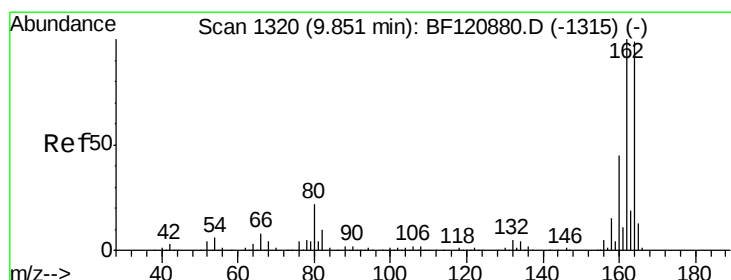
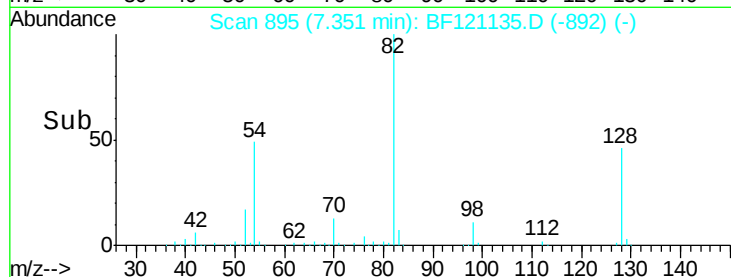
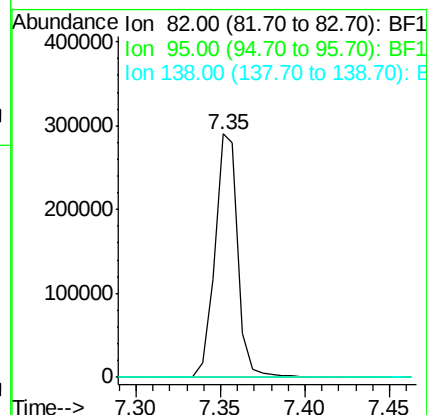
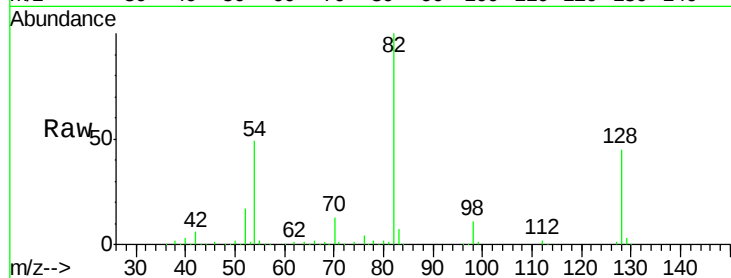
Tot Ion: 82 Resp: 272185

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 16.2 24.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

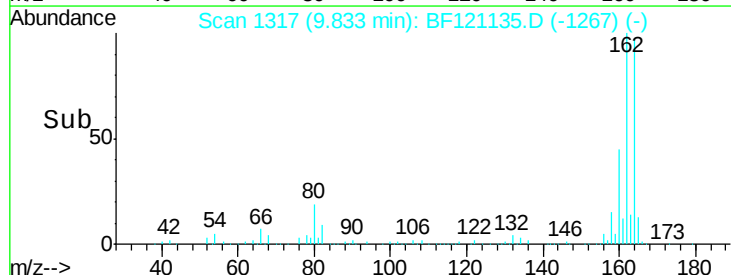
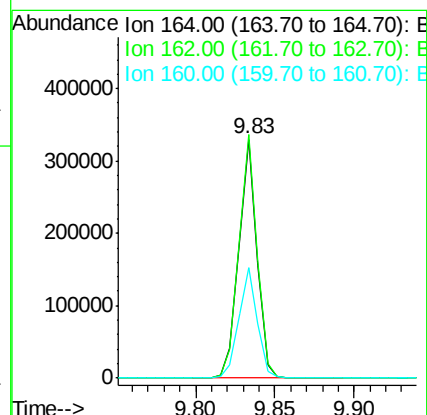
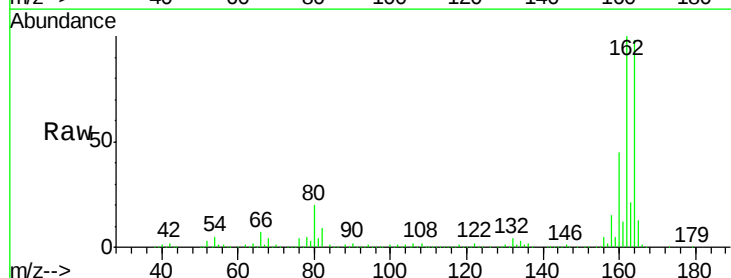
Tgt Ion:164 Resp: 264644

Ion Ratio Lower Upper

164 100

162 101.8 82.2 123.2

160 46.2 37.2 55.8

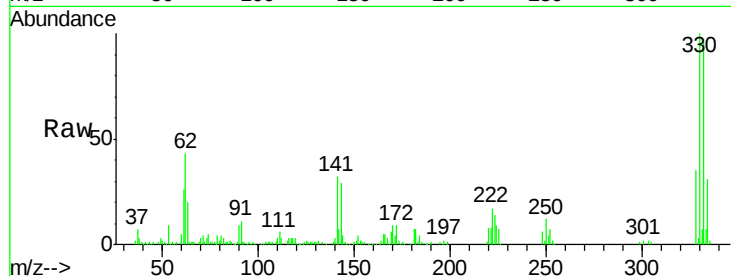




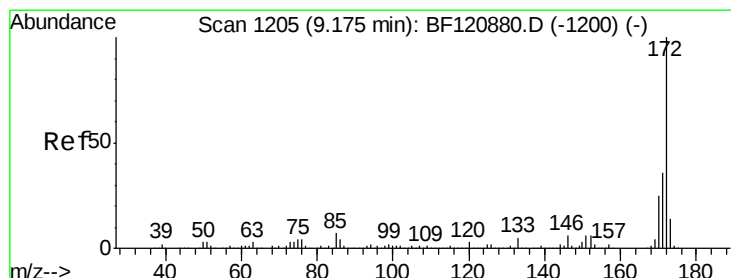
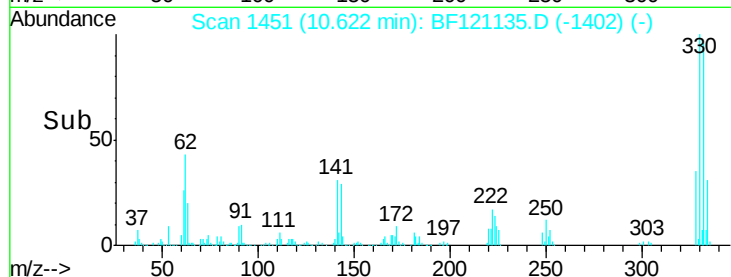
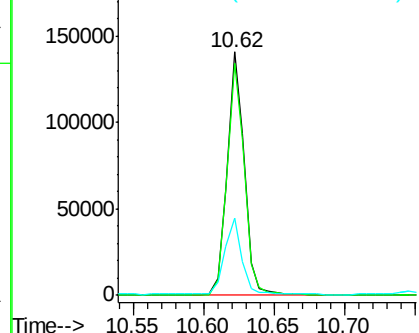
#42
 2,4,6-Tribromophenol
 Concen: 41.149 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-072820

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.1	114.1
141	31.6	24.1	36.1

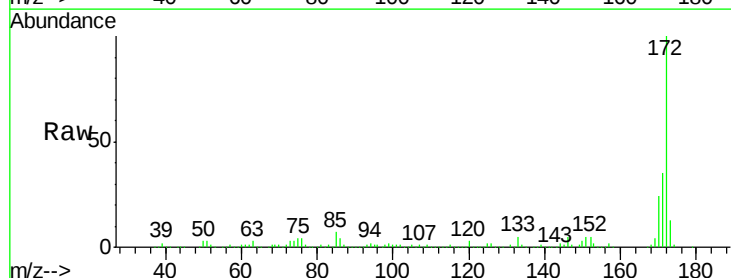


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

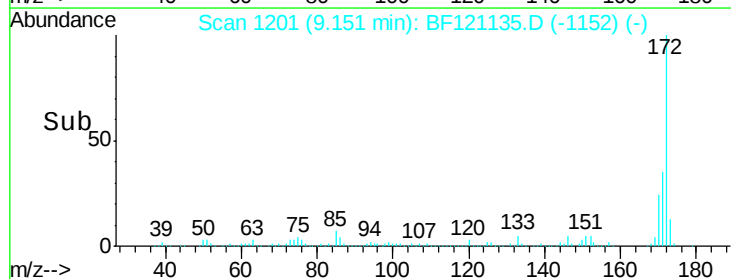
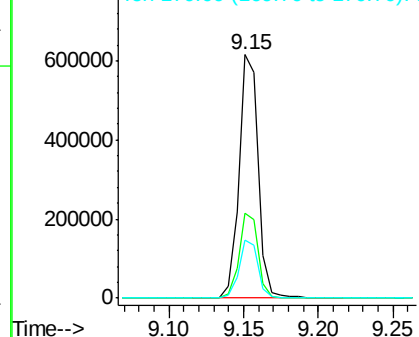


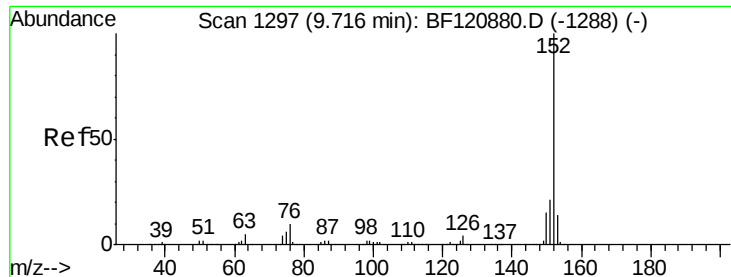
#45
 2-Fluorobiphenyl
 Concen: 31.422 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.6	19.6	29.4



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





#49

Acenaphthylene

Concen: 4.719 ng

RT: 9.69 min Scan# 1293

Delta R.T. -0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

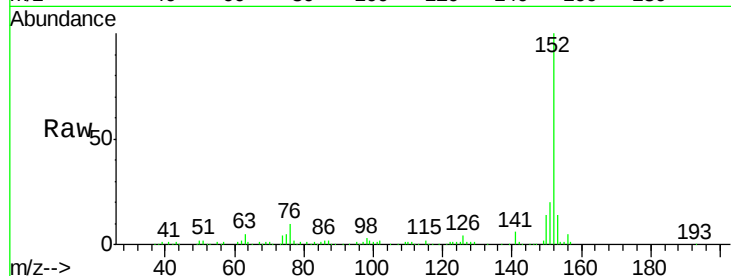
Tot Ion:152 Resp: 120649

Ion Ratio Lower Upper

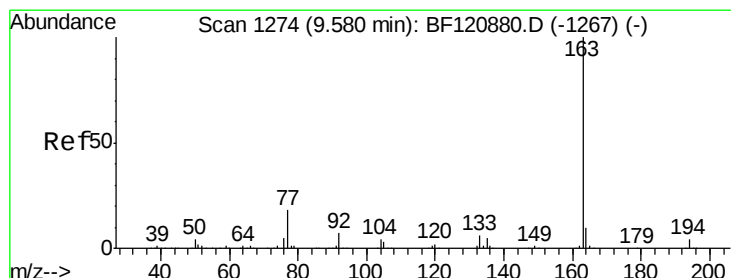
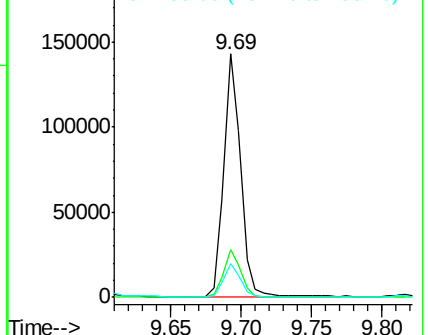
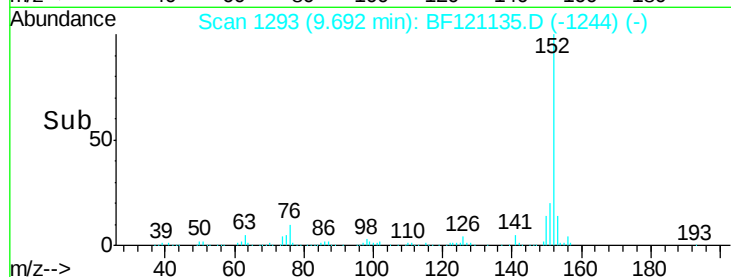
152 100

151 19.8 16.6 25.0

153 13.9 11.0 16.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.158 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

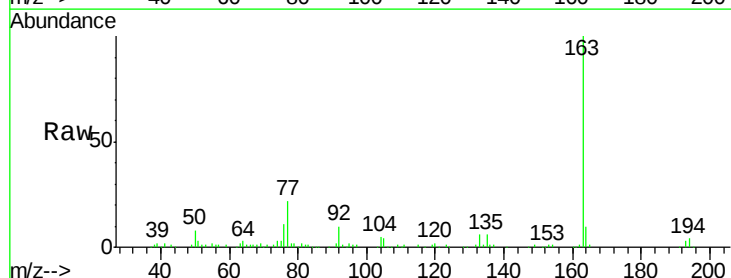
Tgt Ion:163 Resp: 98478

Ion Ratio Lower Upper

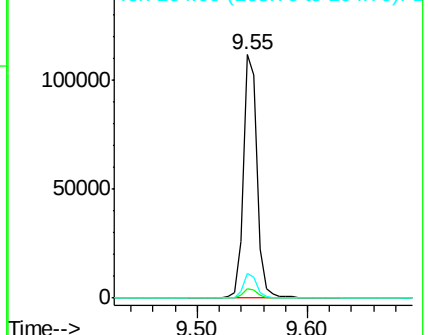
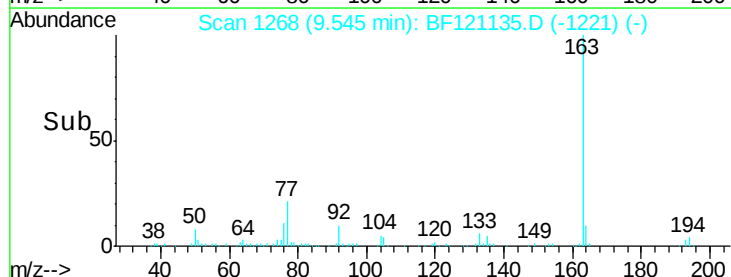
163 100

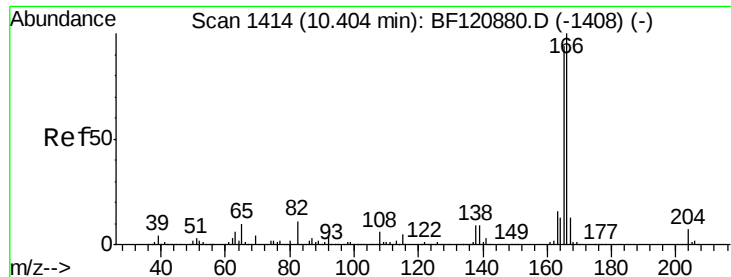
194 3.8 3.0 4.4

164 10.2 8.4 12.6



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





#58

Fluorene

Concen: 2.941 ng

RT: 10.38 min Scan# 1410

Delta R.T. -0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

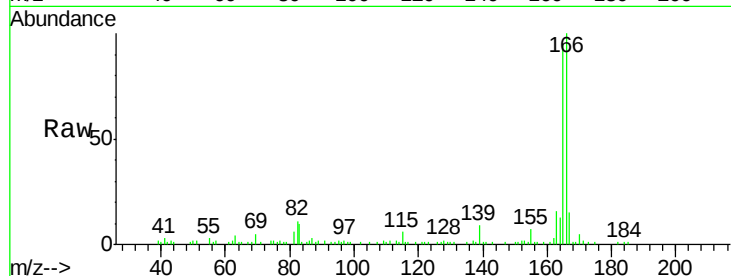
Tot Ion:166 Resp: 51570

Ion Ratio Lower Upper

166 100

165 94.6 76.4 114.6

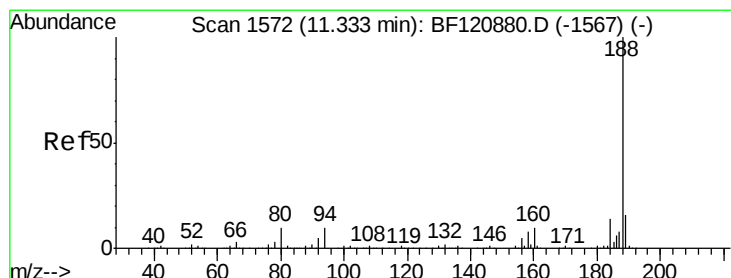
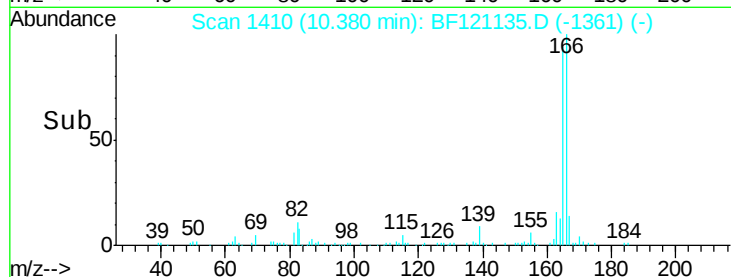
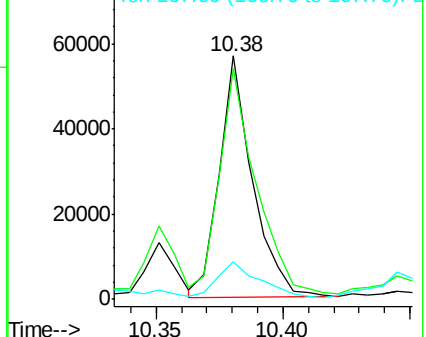
167 15.2 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

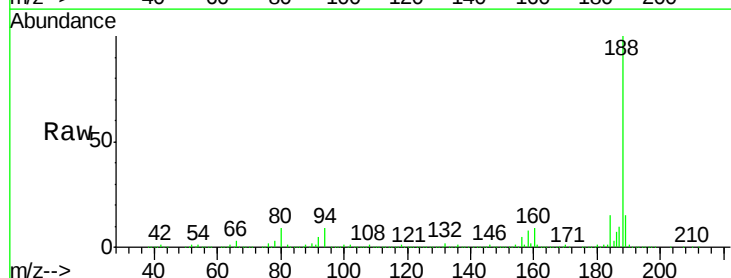
Tgt Ion:188 Resp: 503366

Ion Ratio Lower Upper

188 100

94 9.1 8.0 12.0

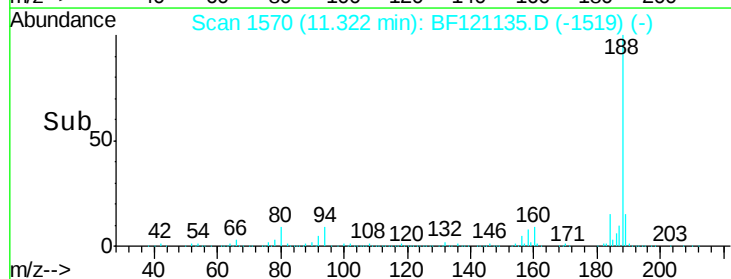
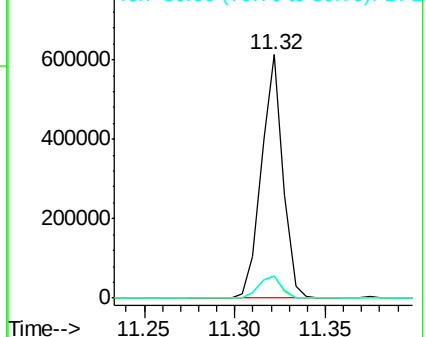
80 9.3 8.3 12.5

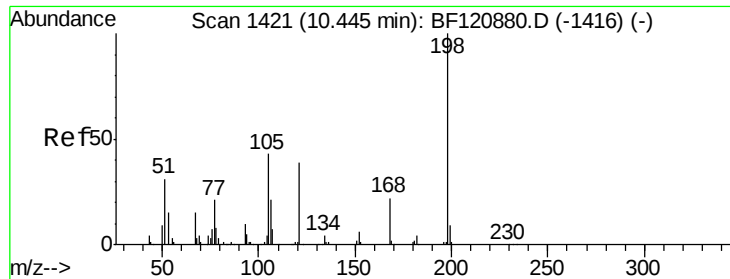


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

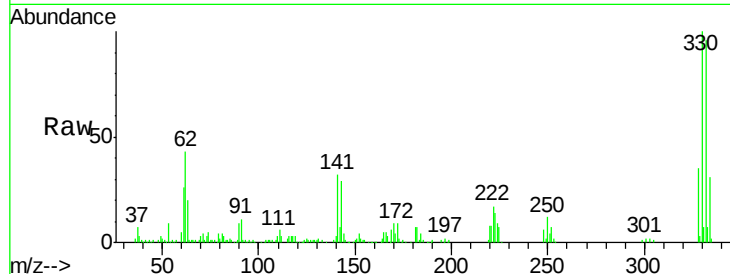




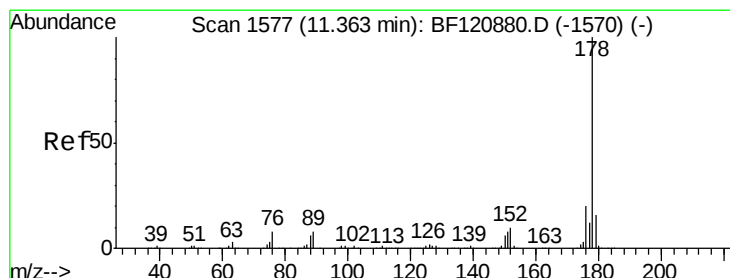
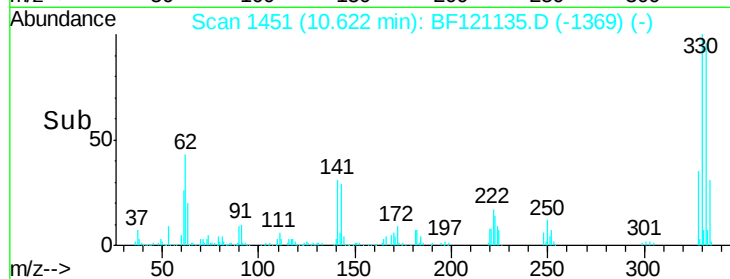
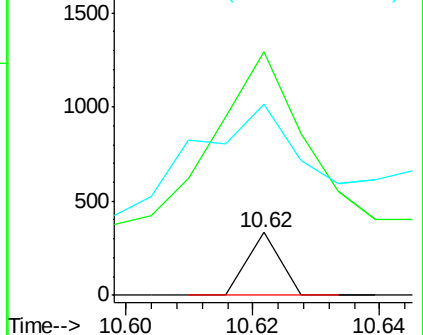
#65
 4,6-Dinitro-2-methylphenol
 Concen: 3.879 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. 0.18 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-072820

Tot Ion:198 Resp: 117
 Ion Ratio Lower Upper
 198 100
 51 389.5 23.4 63.4#
 105 306.0 23.7 63.7#

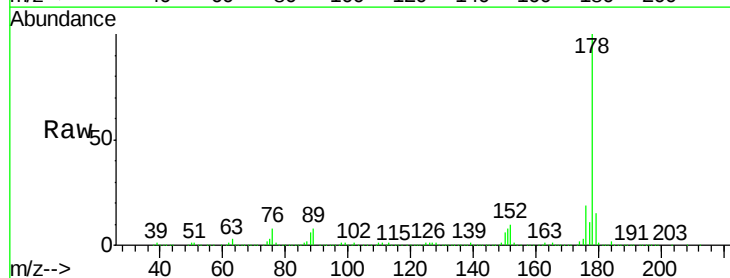


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

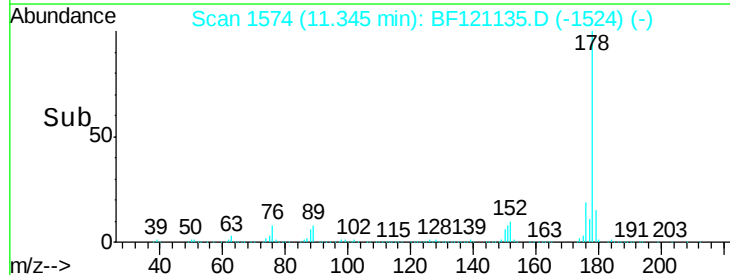
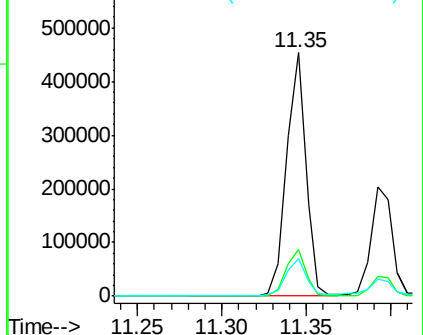


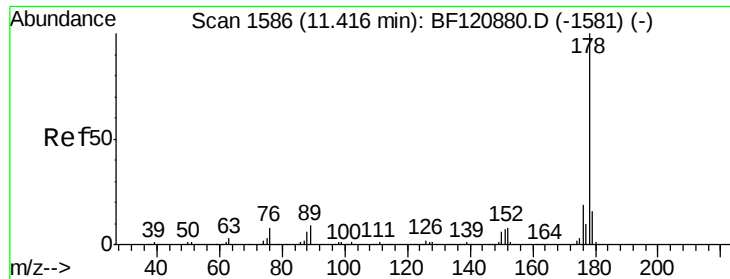
#71
 Phenanthrene
 Concen: 13.772 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

Tgt Ion:178 Resp: 356538
 Ion Ratio Lower Upper
 178 100
 176 19.3 16.2 24.2
 179 15.4 12.6 19.0



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: 6.650 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

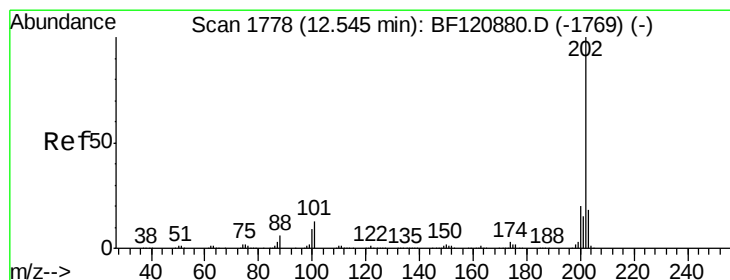
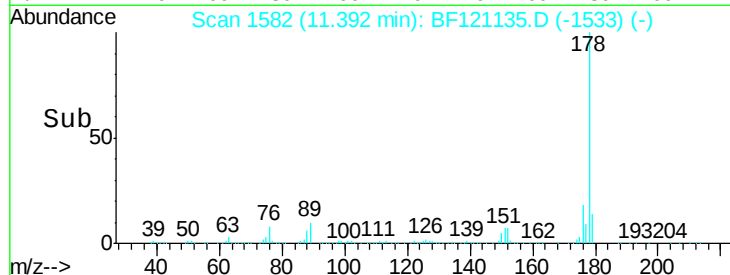
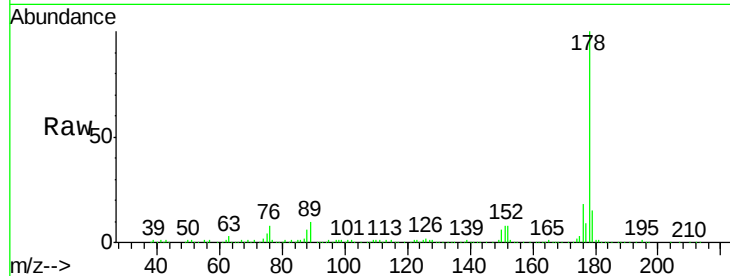
Tot Ion:178 Resp: 172864

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

179 15.2 12.6 19.0



#75

Fluoranthene

Concen: 41.213 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.00 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

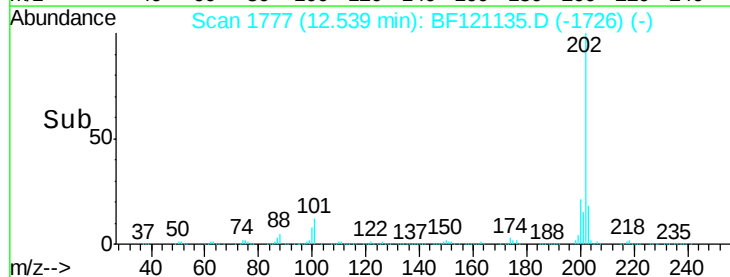
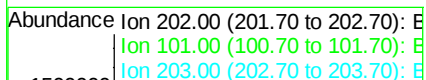
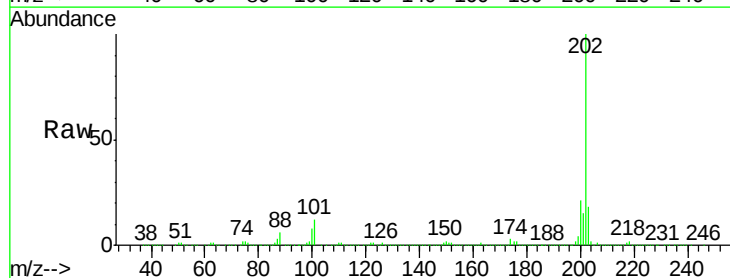
Tgt Ion:202 Resp: 1182627

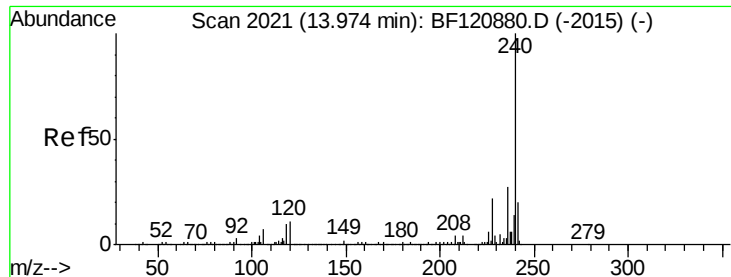
Ion Ratio Lower Upper

202 100

101 11.8 0.0 30.5

203 18.3 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

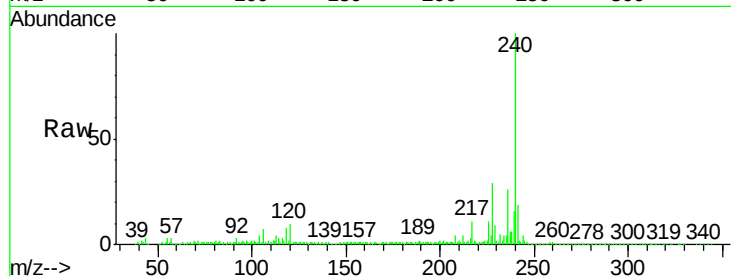
Tot Ion:240 Resp: 327423

Ion Ratio Lower Upper

240 100

120 10.2 9.3 13.9

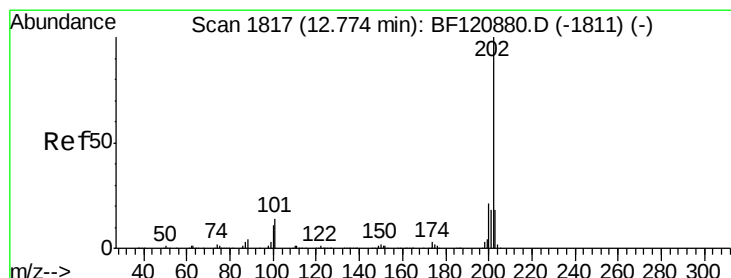
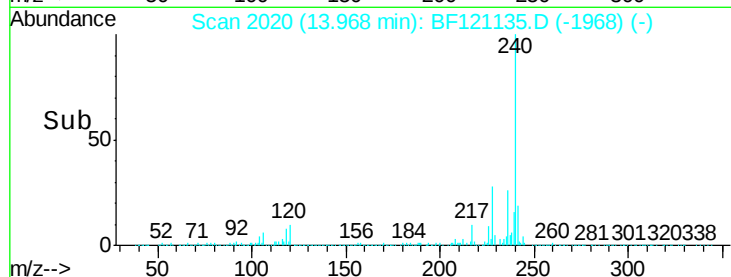
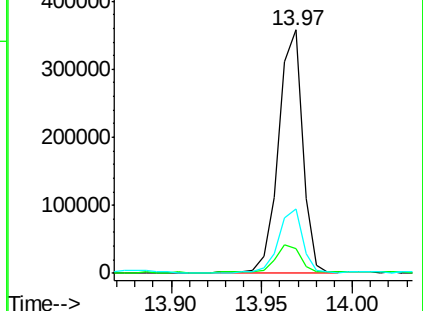
236 26.2 21.1 31.7



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: 55.781 ng

RT: 12.77 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

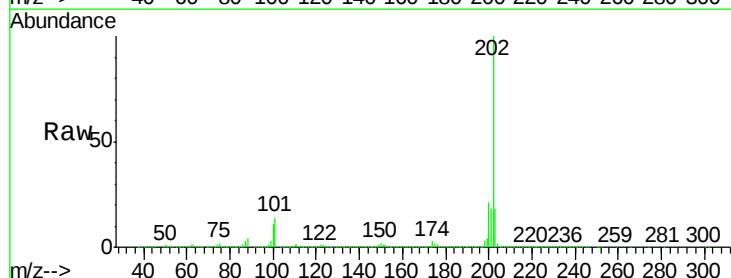
Tgt Ion:202 Resp: 1291279

Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.6

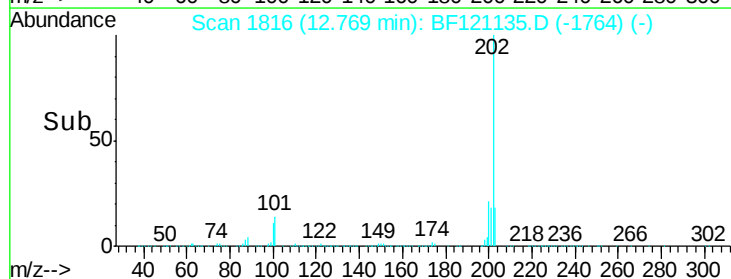
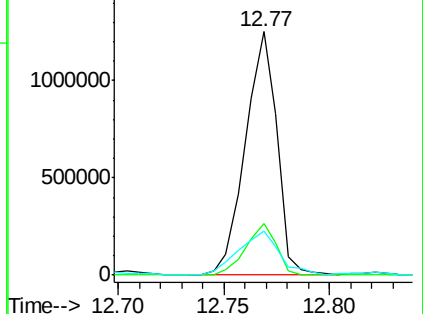
203 18.2 14.6 21.8

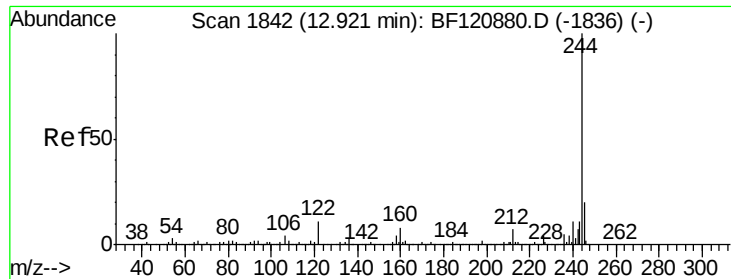


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 36.083 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.00 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

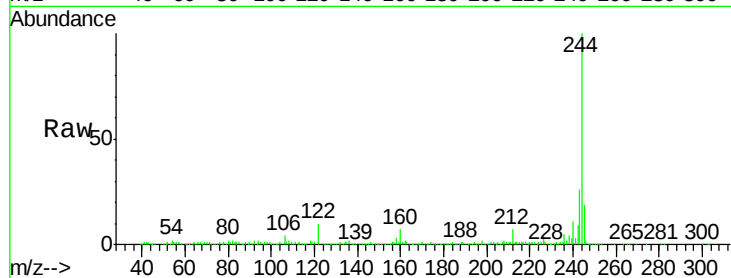
Tot Ion:244 Resp: 543489

Ion Ratio Lower Upper

244 100

212 6.6 5.7 8.5

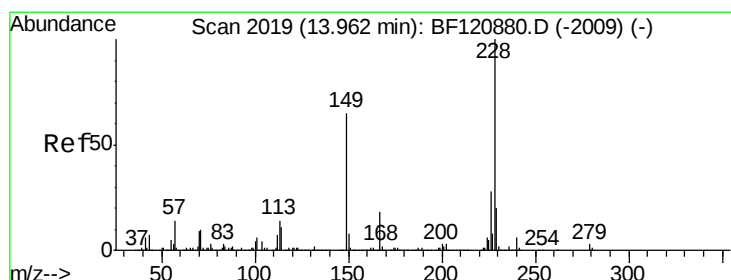
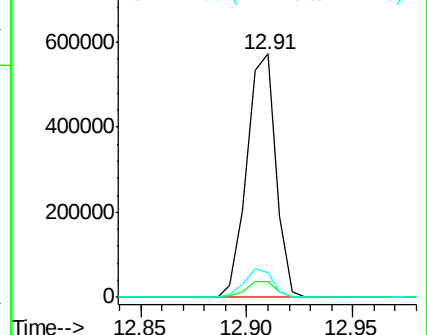
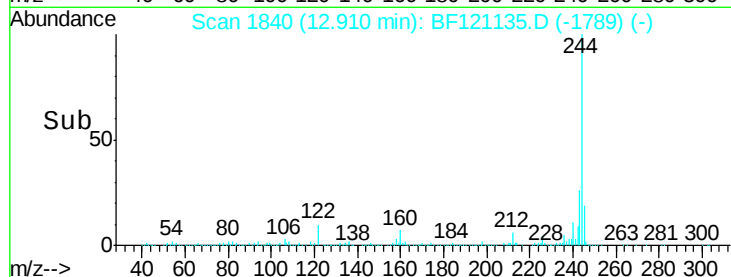
122 10.4 8.3 12.5



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: 33.176 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

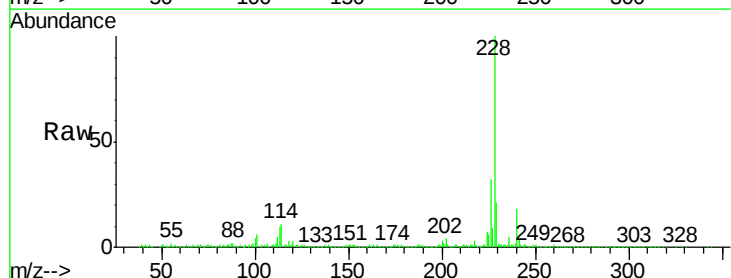
Tgt Ion:228 Resp: 657785

Ion Ratio Lower Upper

228 100

226 31.9 22.6 34.0

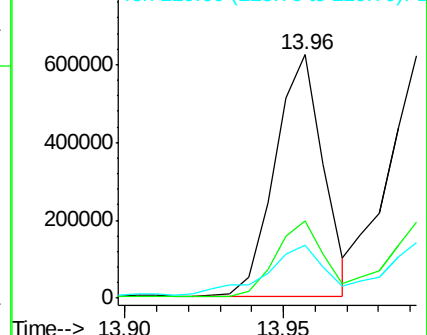
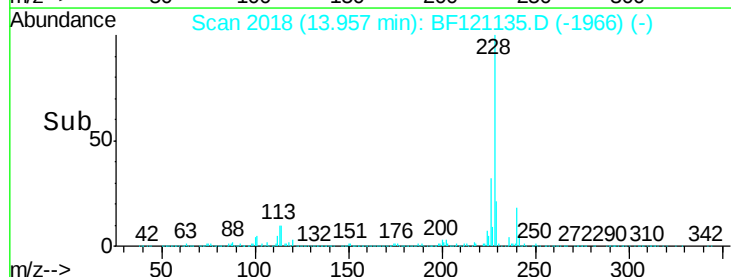
229 21.5 16.1 24.1

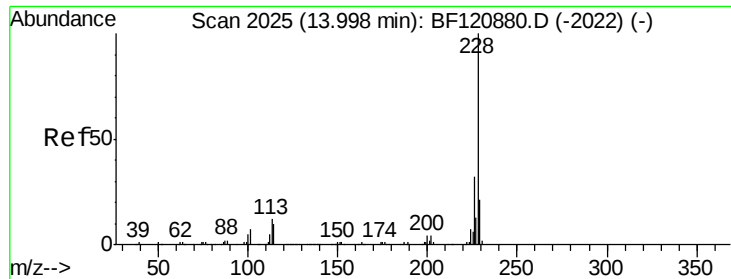


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 28.982 ng

RT: 13.99 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

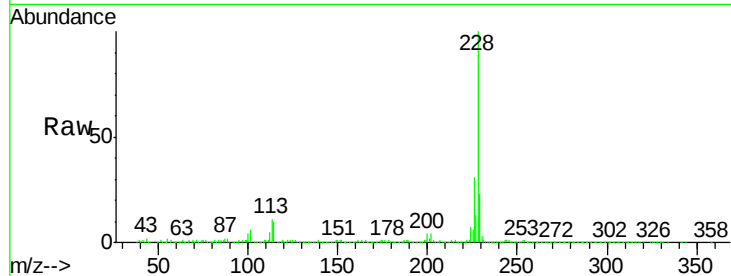
Tot Ion:228 Resp: 603884

Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.0

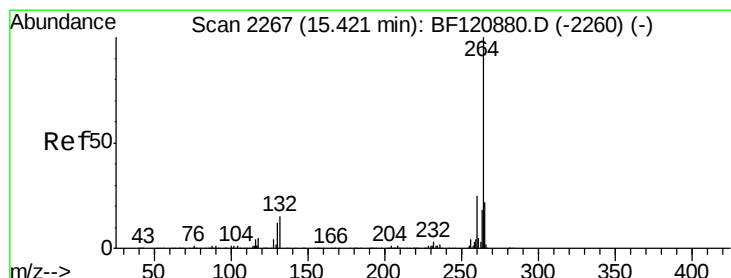
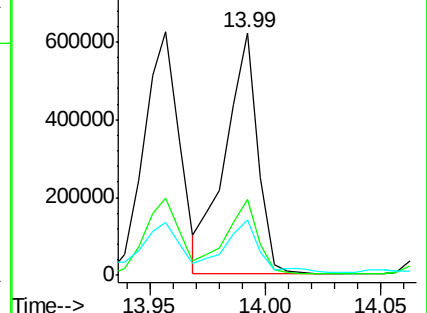
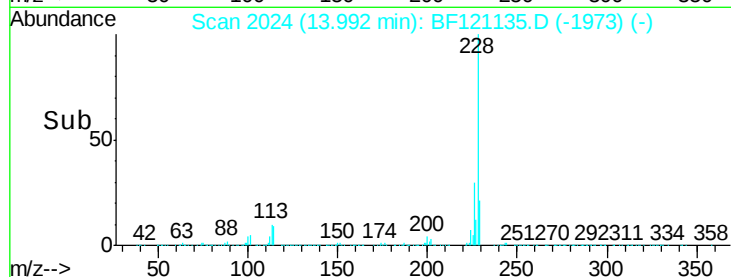
229 22.7 16.2 24.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. 0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

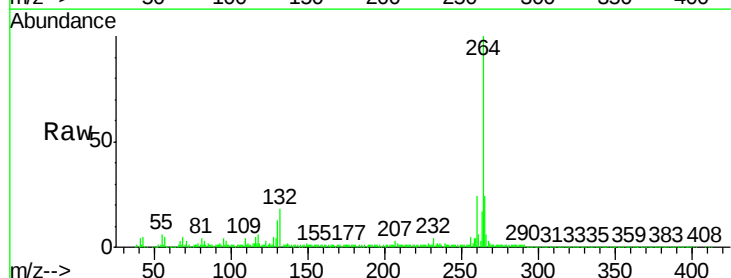
Tgt Ion:264 Resp: 372067

Ion Ratio Lower Upper

264 100

260 24.3 19.9 29.9

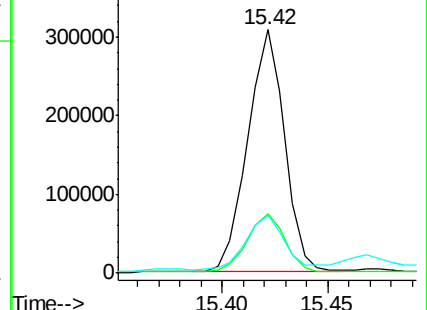
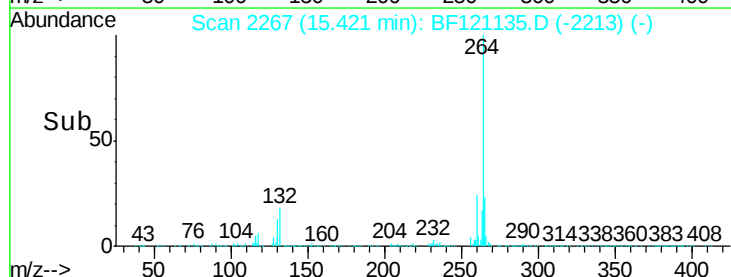
265 24.1 17.8 26.8

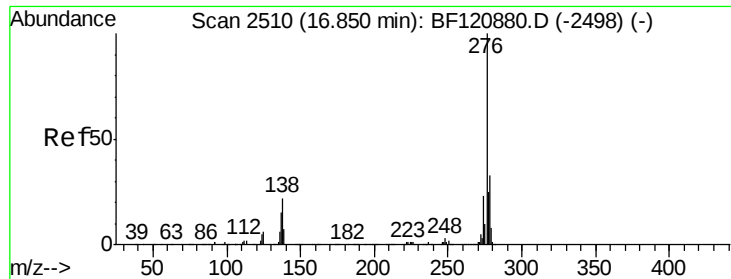


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

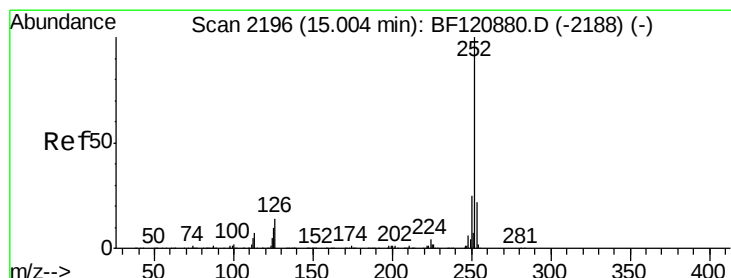
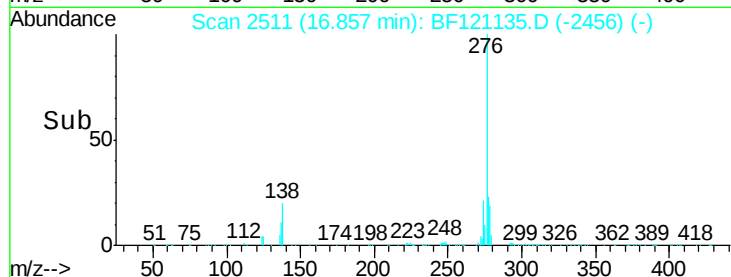
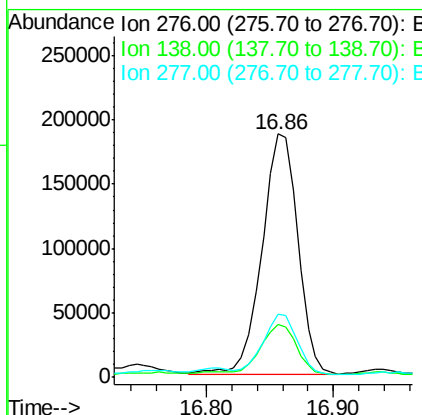
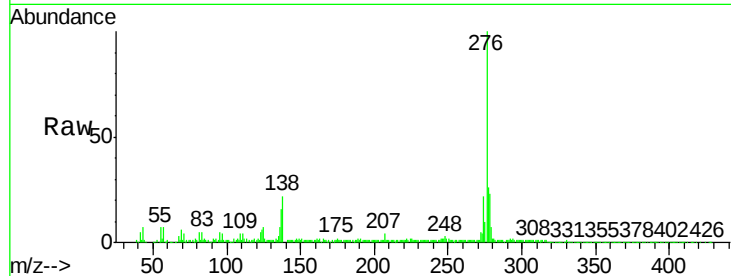




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 14.110 ng
 RT: 16.86 min Scan# 2511
 Delta R.T. 0.02 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

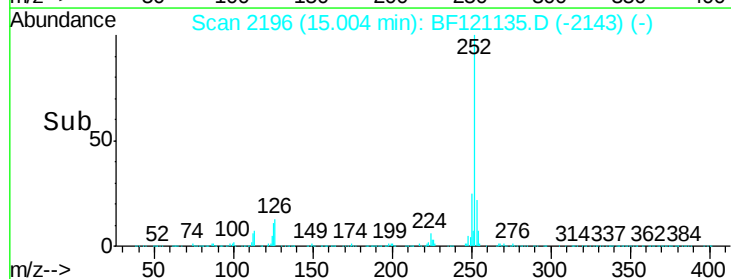
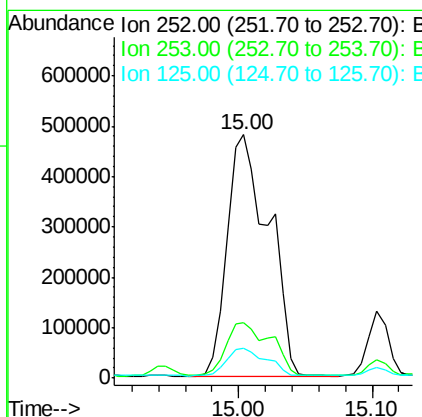
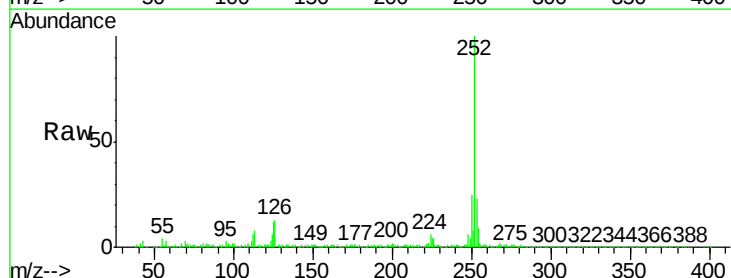
Instrument :
 BNA_F
 ClientSampleId :
 OK-02-072820

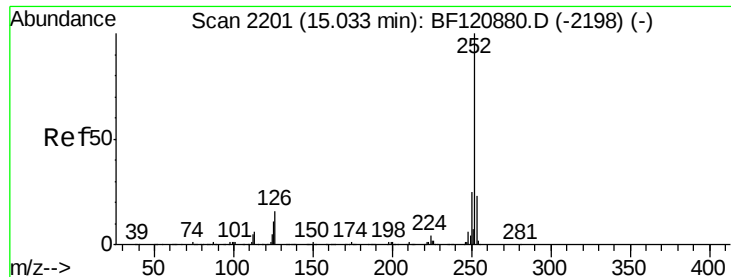
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.3	28.9
277	24.3	20.1	30.1



#88
 Benzo(b)fluoranthene
 Concen: 46.392 ng
 RT: 15.00 min Scan# 2196
 Delta R.T. 0.01 min
 Lab File: BF121135.D
 Acq: 30 Jul 2020 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	12.4	8.1	12.1#





#89

Benzo(k)fluoranthene

Concen: 50.869 ng

RT: 15.00 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

Instrument :

BNA_F

ClientSampleId :

OK-02-072820

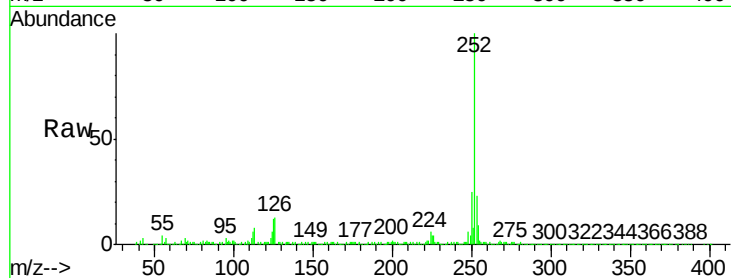
Tot Ion:252 Resp: 1043370

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

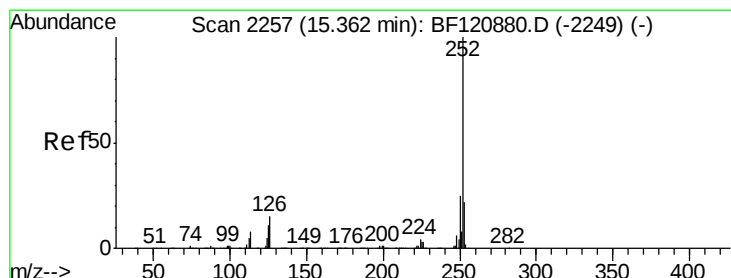
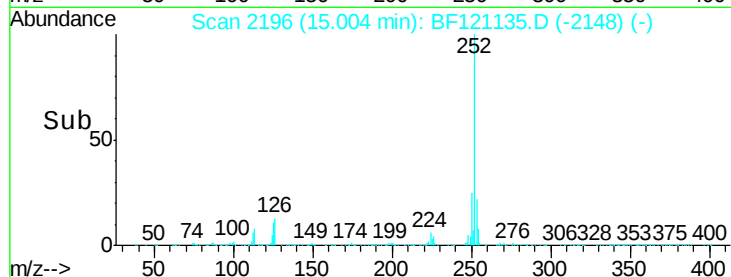
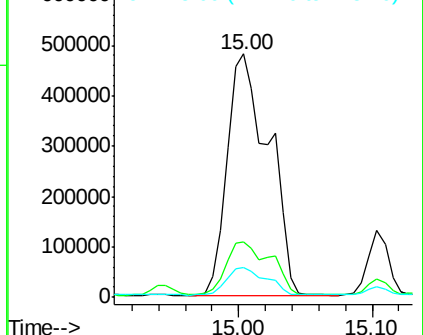
125 12.4 8.0 12.0#



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



#90

Benzo(a)pyrene

Concen: 29.323 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.02 min

Lab File: BF121135.D

Acq: 30 Jul 2020 18:45

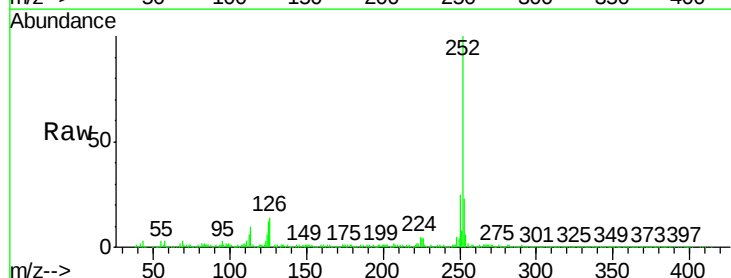
Tgt Ion:252 Resp: 601677

Ion Ratio Lower Upper

252 100

253 23.0 18.0 27.0

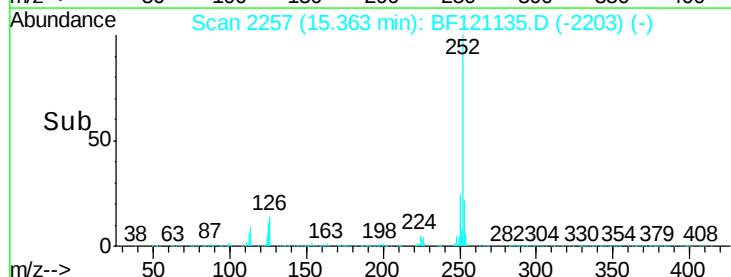
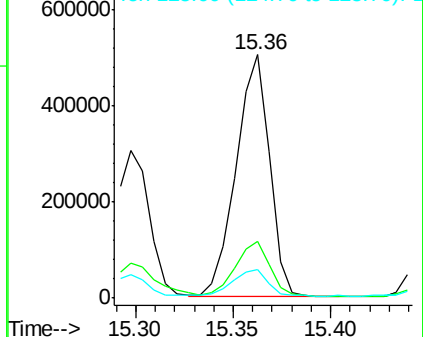
125 11.7 9.5 14.3

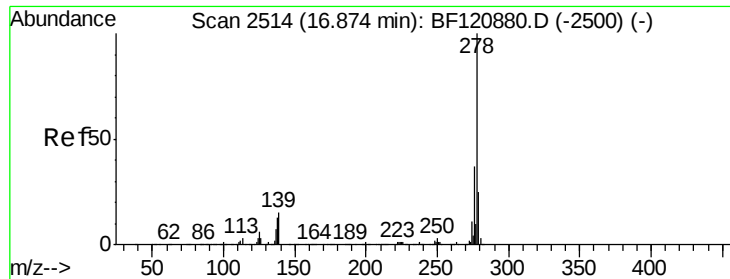


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

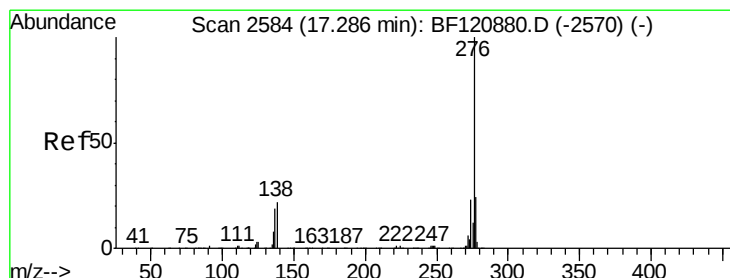
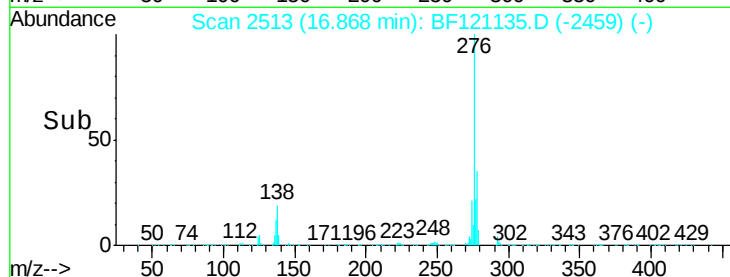
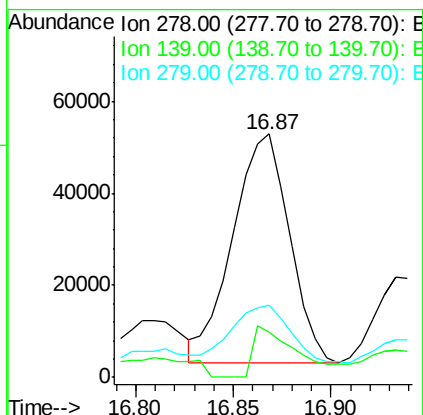
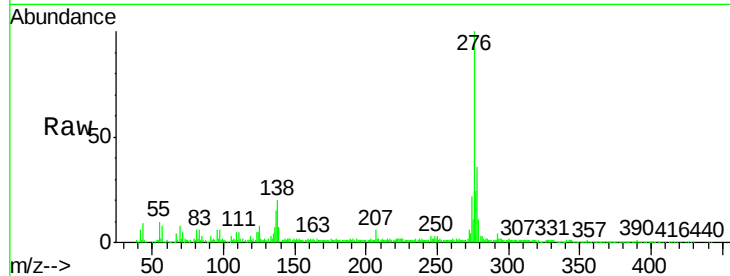




#91
Dibenzo(a,h)anthracene
Concen: 4.716 ng
RT: 16.87 min Scan# 2513
Delta R.T. 0.02 min
Lab File: BF121135.D
Acq: 30 Jul 2020 18:45

Instrument :
BNA_F
ClientSampleId :
OK-02-072820

Tot Ion:278 Resp: 99676
Ion Ratio Lower Upper
278 100
139 18.7 12.6 18.8
279 29.5 19.5 29.3#



#92
Benzo(g,h,i)perylene
Concen: 15.842 ng
RT: 17.30 min Scan# 2586
Delta R.T. 0.04 min
Lab File: BF121135.D
Acq: 30 Jul 2020 18:45

Tgt Ion:276 Resp: 330167
Ion Ratio Lower Upper
276 100
277 23.5 19.4 29.0
138 21.7 17.2 25.8

