

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP071520\
 Data File : BP002766.D
 Acq On : 15 Jul 2020 21:53
 Operator : CG/JU
 Sample : L3183-06RE 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071420

Quant Time: Jul 16 00:44:12 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP071020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 13 10:54:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	160923	20.00	ng	0.01
21) Naphthalene-d8	10.33	136	644483	20.00	ng	0.00
39) Acenaphthene-d10	14.21	164	380855	20.00	ng	0.00
64) Phenanthrene-d10	16.97	188	795399	20.00	ng	0.00
76) Chrysene-d12	21.09	240	595332	20.00	ng	0.01
86) Perylene-d12	23.28	264	596306	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.19	112	96113	10.08	ng	0.00
7) Phenol-d6	6.77	99	132135	9.71	ng	0.01
23) Nitrobenzene-d5	8.71	82	78661	6.53	ng	0.00
42) 2,4,6-Tribromophenol	15.72	330	39098	9.83	ng	0.01
45) 2-Fluorobiphenyl	12.83	172	197722	8.03	ng	0.00
79) Terphenyl-d14	19.56	244	232795	8.97	ng	0.00

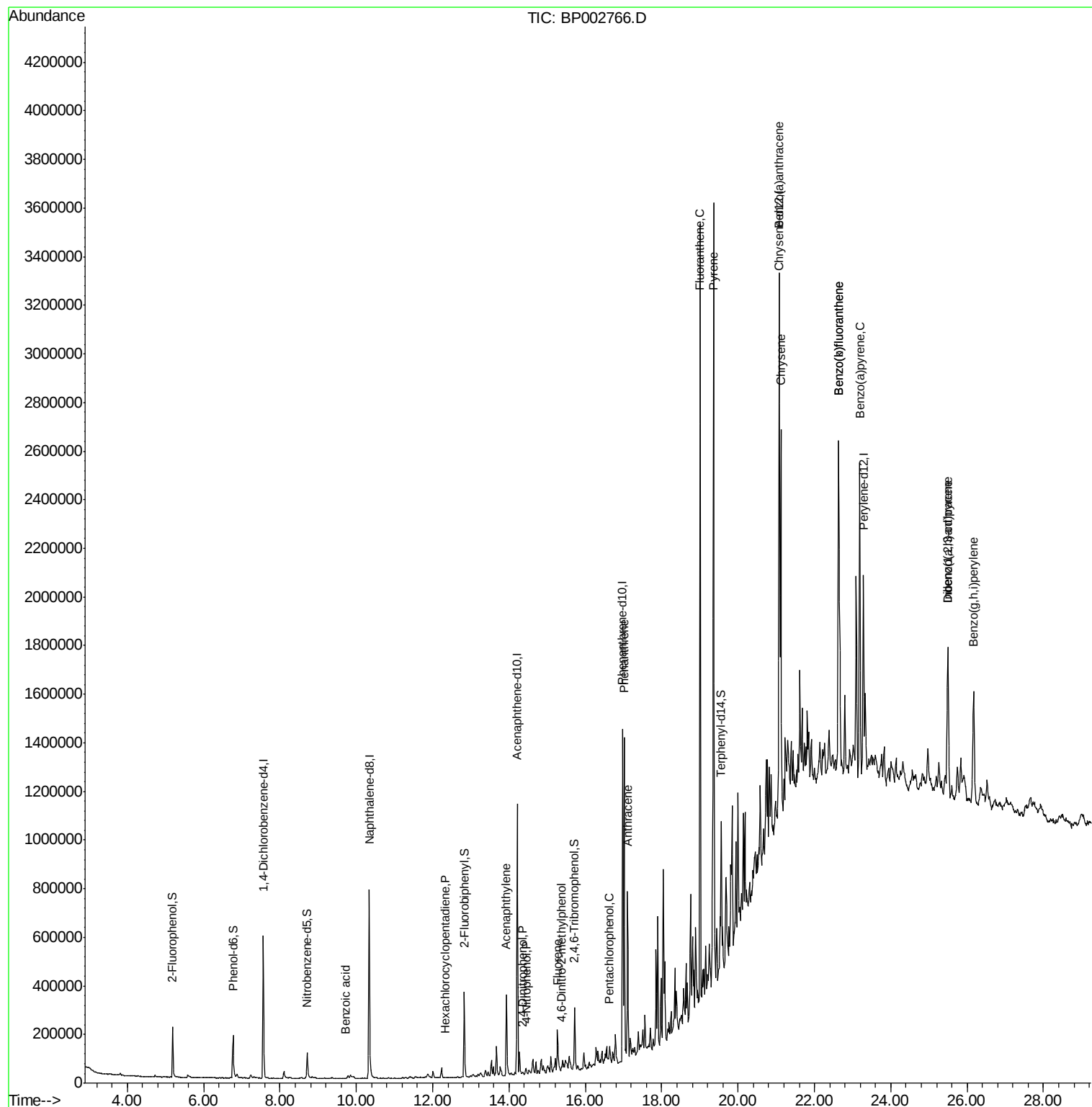
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	9.70	122	61	7.069	ng	# 1
41) Hexachlorocyclopentadiene	12.33	237	18	7.437	ng	82
49) Acenaphthylene	13.93	152	280103	7.705	ng	100
54) 2,4-Dinitrophenol	14.35	184	72	11.392	ng	# 1
56) 4-Nitrophenol	14.43	139	969	5.135	ng	83
58) Fluorene	15.27	166	85961	3.334	ng	96
65) 4,6-Dinitro-2-methylphenol	15.37	198	77	5.281	ng	# 1
70) Pentachlorophenol	16.62	266	120	7.466	ng	# 62
71) Phenanthrene	17.02	178	784161	18.208	ng	99
72) Anthracene	17.11	178	430721	10.192	ng	99
75) Fluoranthene	19.00	202	1824642	36.565	ng	99
78) Pyrene	19.36	202	1891989	46.030	ng	100
81) Benzo(a)anthracene	21.07	228	1016161	26.368	ng	96
83) Chrysene	21.12	228	894188	24.376	ng	99
87) Indeno(1,2,3-cd)pyrene	25.49	276	587132	13.623	ng	96
88) Benzo(b)fluoranthene	22.63	252	1198798	32.376	ng	98
89) Benzo(k)fluoranthene	22.63	252	1198798	32.869	ng	98
90) Benzo(a)pyrene	23.19	252	904310	25.773	ng	98
91) Dibenzo(a,h)anthracene	25.50	278	168909	4.860	ng	# 88
92) Benzo(a,h,i)perylene	26.17	276	565377	16.043	ng	98

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

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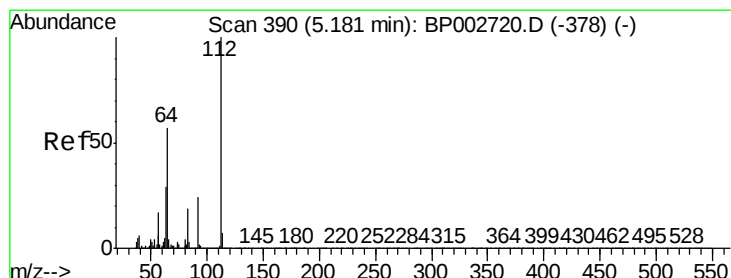
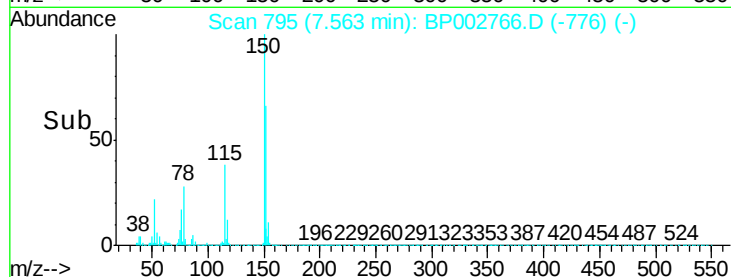
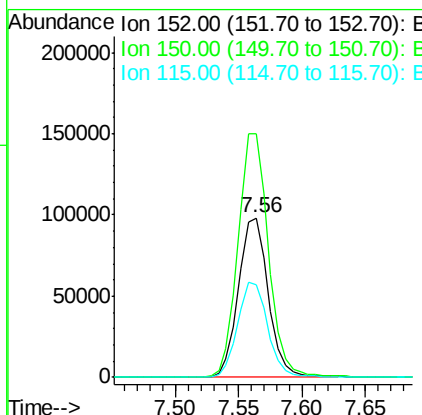
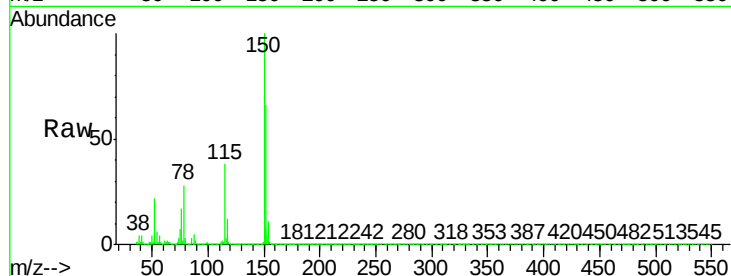


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.56 min Scan# 795
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Instrument :
BNA_P
ClientSampleId :
OK-01-071420

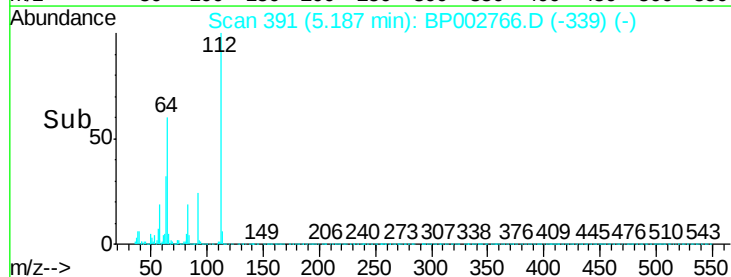
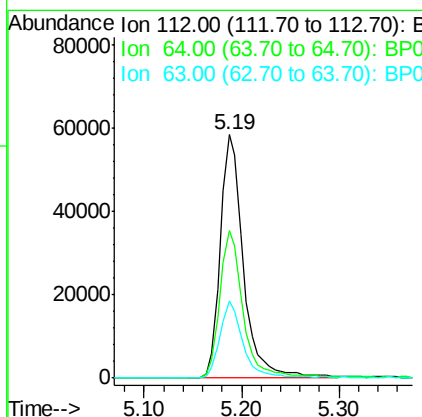
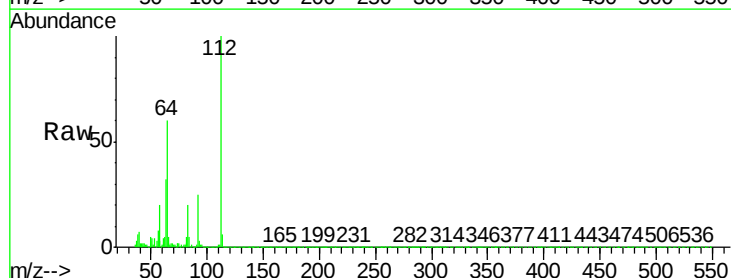
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.7	185.5
115	58.1	47.2	70.8

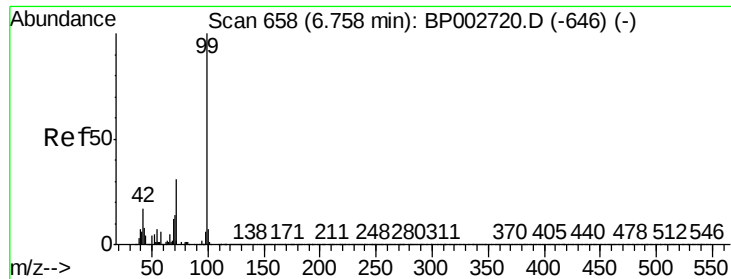


#5

2-Fluorophenol
Concen: 10.077 ng
RT: 5.19 min Scan# 391
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.4	45.6	68.4
63	31.7	23.5	35.3





#7

Phenol-d6

Concen: 9.707 ng

RT: 6.77 min Scan# 660

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

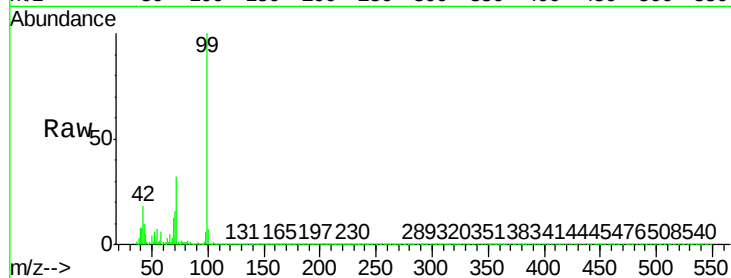
Tot Ion: 99 Resp: 132135

Ion Ratio Lower Upper

99 100

42 17.8 13.4 20.2

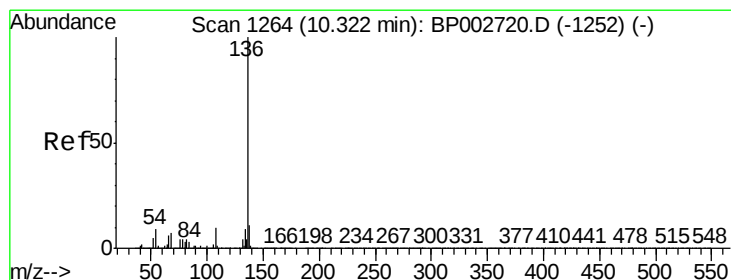
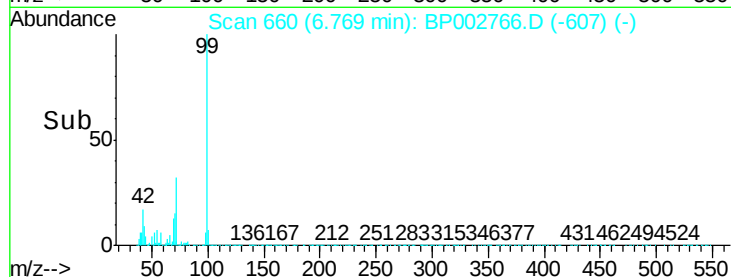
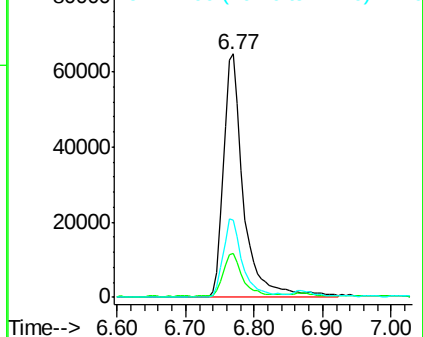
71 32.0 24.6 36.8



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.33 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Tgt Ion: 136 Resp: 644483

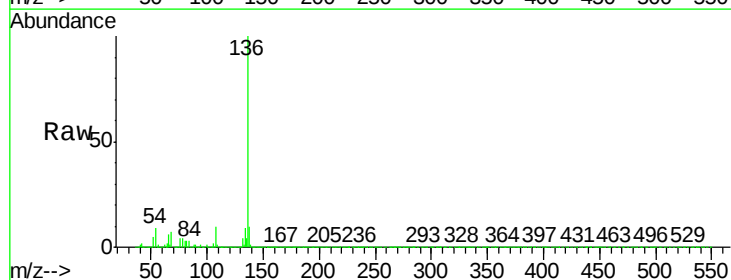
Ion Ratio Lower Upper

136 100

137 10.4 8.6 13.0

54 9.1 6.9 10.3

68 7.3 5.7 8.5

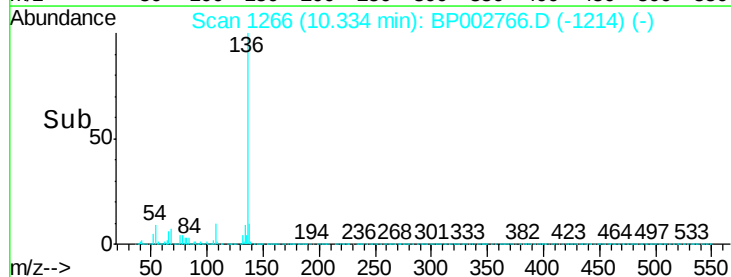
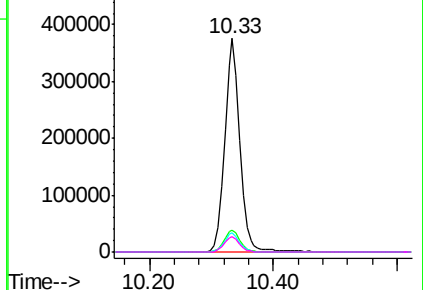


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

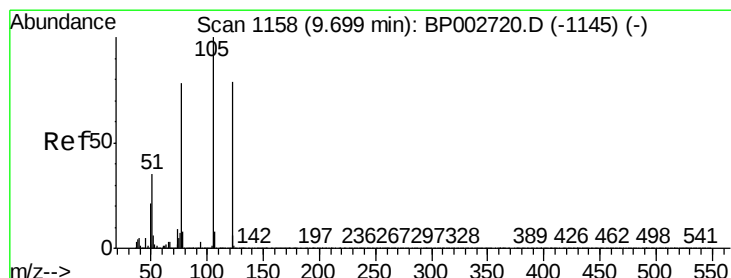
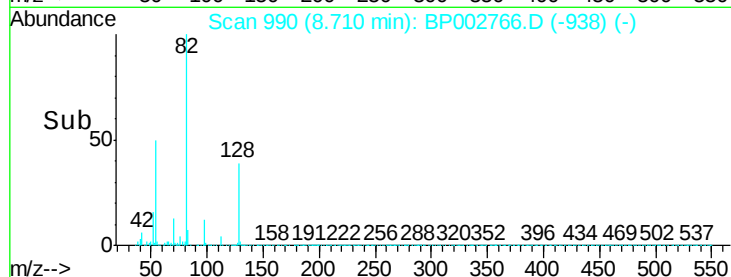
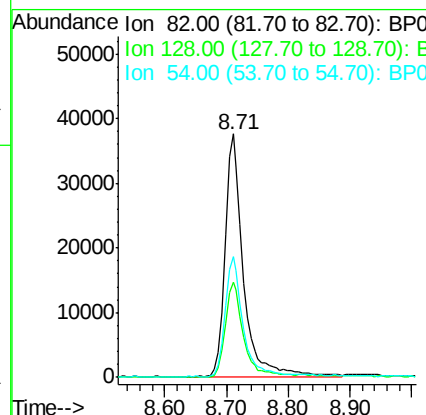
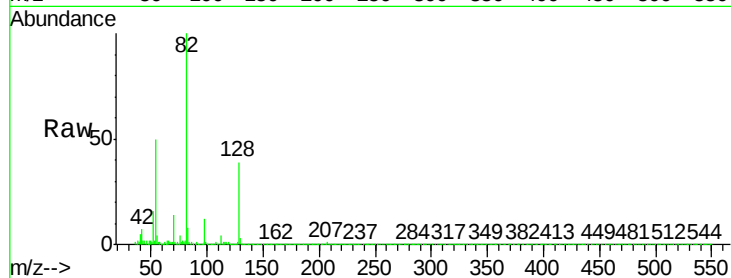




#23
Nitrobenzene-d5
Concen: 6.528 ng
RT: 8.71 min Scan# 990
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

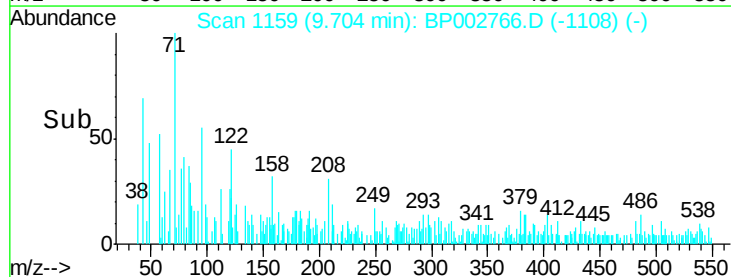
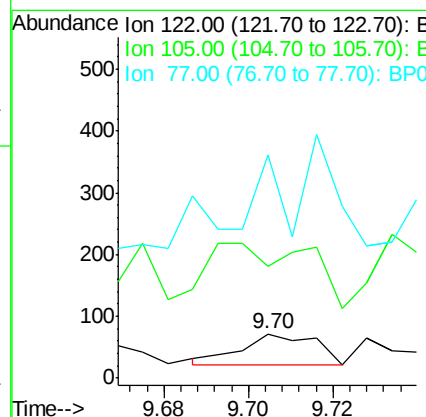
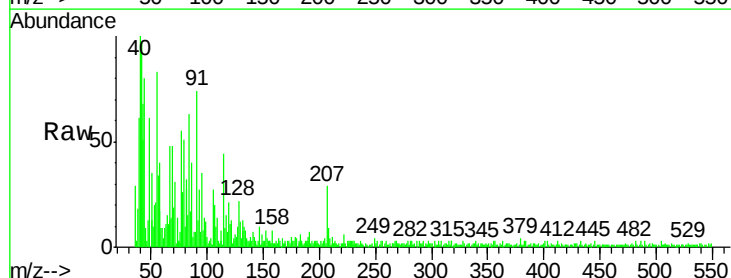
Instrument :
BNA_P
ClientSampleId :
OK-01-071420

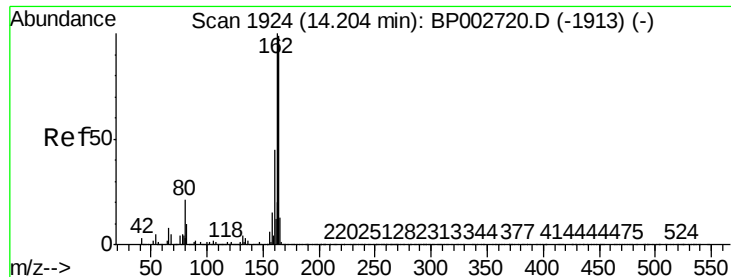
Tot Ion	82	Resp	78661
Ion Ratio	Lower	Upper	
82	100		
128	38.9	33.8	50.8
54	49.8	38.8	58.2



#32
Benzoic acid
Concen: 7.069 ng
RT: 9.70 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion	122	Resp	61
Ion Ratio	Lower	Upper	
122	100		
105	218.1	105.4	145.4#
77	436.1	78.5	118.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.21 min Scan# 1925

Delta R.T. 0.00 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

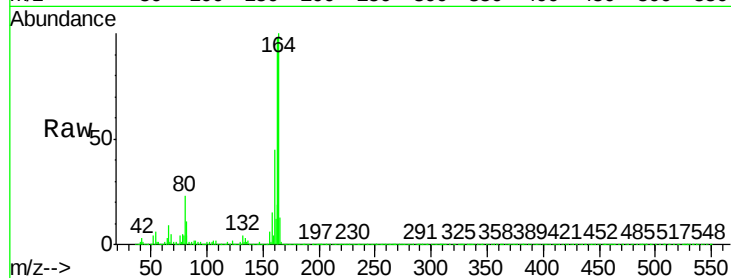
Tot Ion:164 Resp: 380855

Ion Ratio Lower Upper

164 100

162 98.0 80.6 121.0

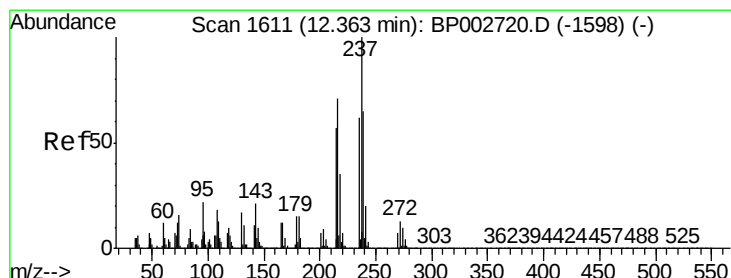
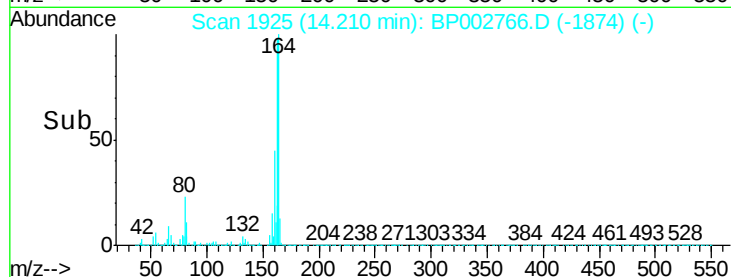
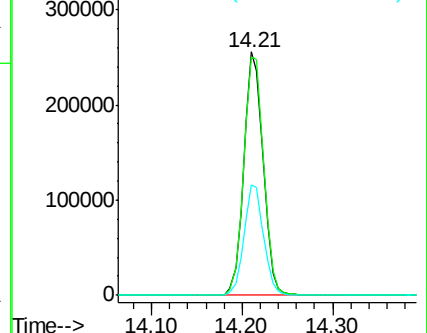
160 45.3 36.4 54.6



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



#41

Hexachlorocyclopentadiene

Concen: 7.437 ng

RT: 12.33 min Scan# 1606

Delta R.T. -0.03 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

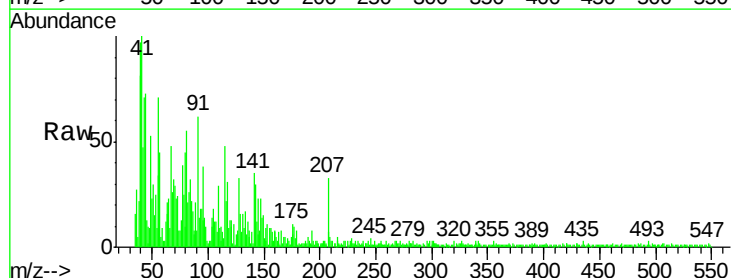
Tgt Ion:237 Resp: 18

Ion Ratio Lower Upper

237 100

235 73.9 42.3 82.3

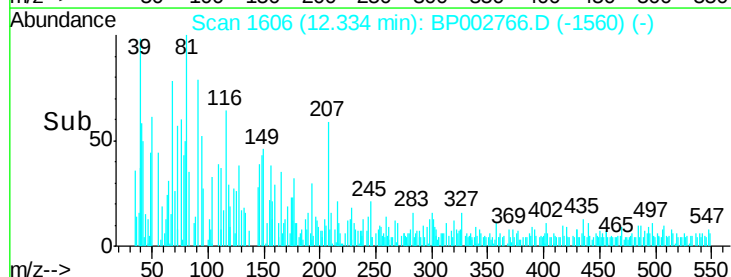
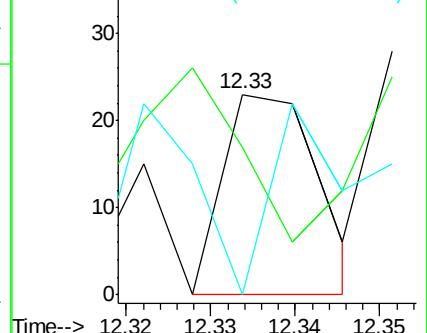
272 0.0 0.0 32.5

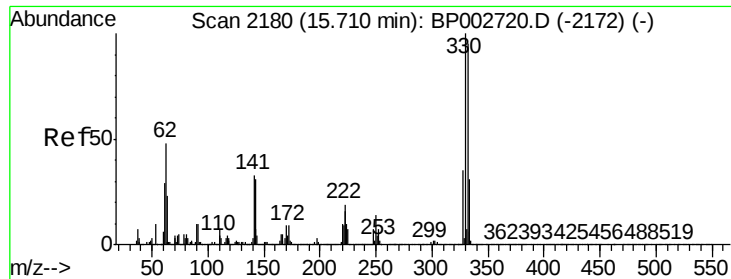


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

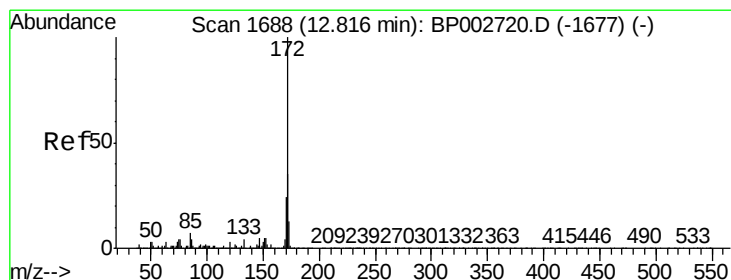
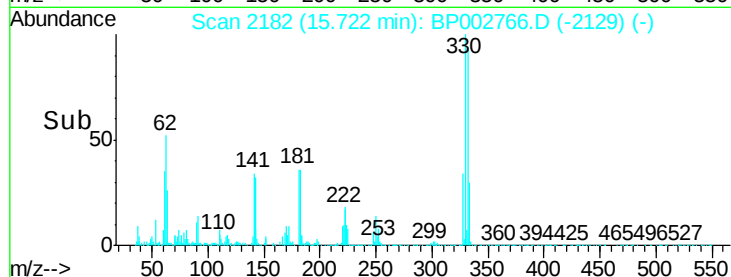
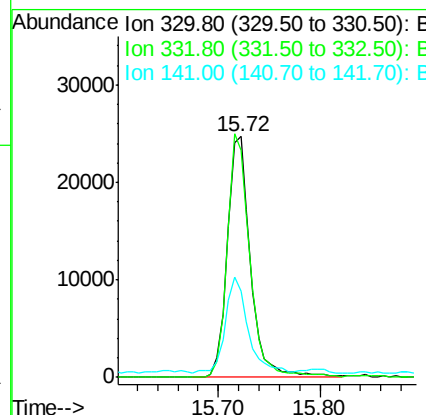
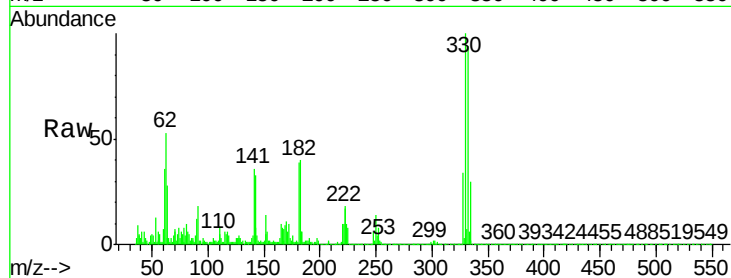




#42
 2,4,6-Tribromophenol
 Concen: 9.835 ng
 RT: 15.72 min Scan# 2182
 Delta R.T. 0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

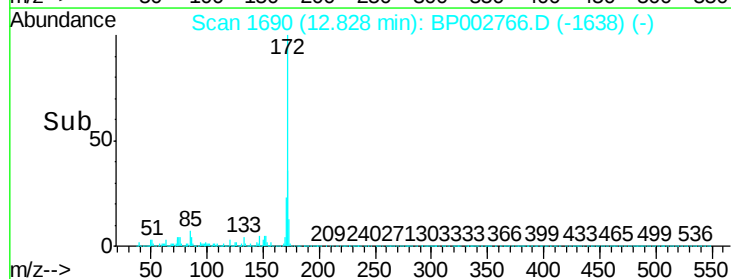
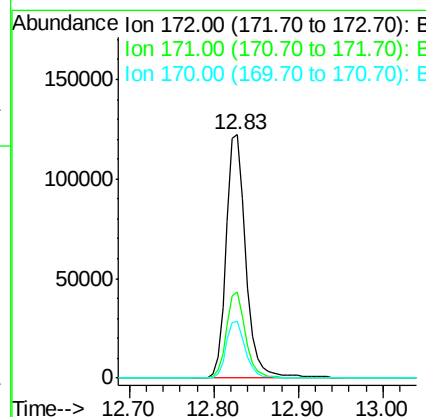
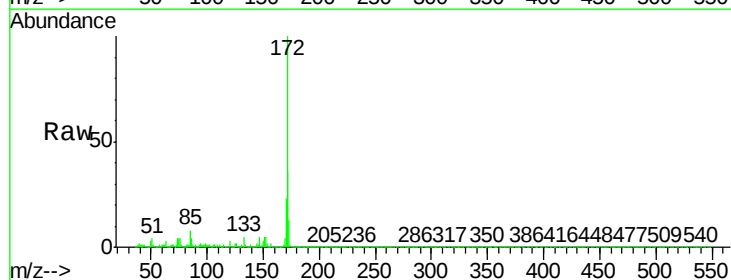
Instrument :
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 ClientSampleId :
 OK-01-071420

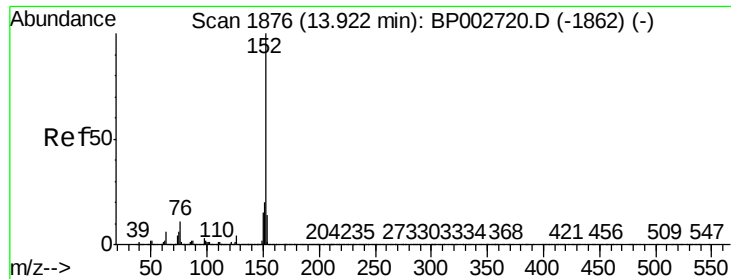
Tot Ion:330 Resp: 39098
 Ion Ratio Lower Upper
 330 100
 332 98.4 76.5 114.7
 141 39.8 28.8 43.2



#45
 2-Fluorobiphenyl
 Concen: 8.031 ng
 RT: 12.83 min Scan# 1690
 Delta R.T. 0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

Tgt Ion:172 Resp: 197722
 Ion Ratio Lower Upper
 172 100
 171 35.5 28.1 42.1
 170 23.4 19.3 28.9





#49

Acenaphthylene

Concen: 7.705 ng

RT: 13.93 min Scan# 1877

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

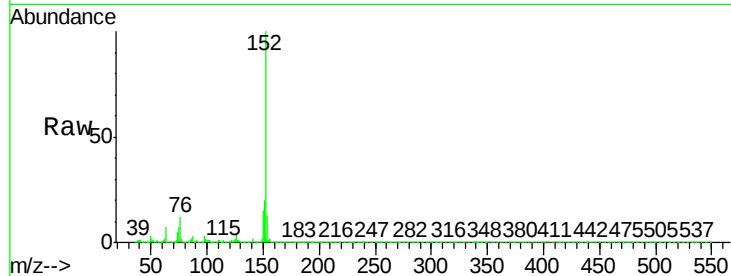
Tot Ion:152 Resp: 280103

Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

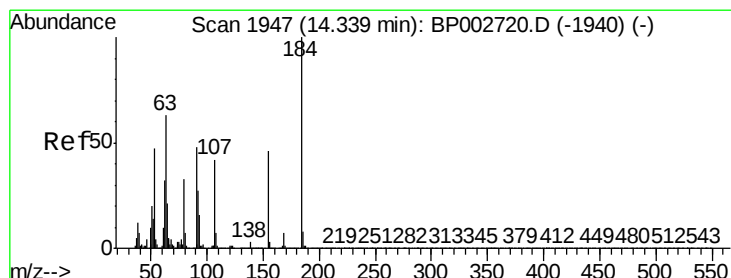
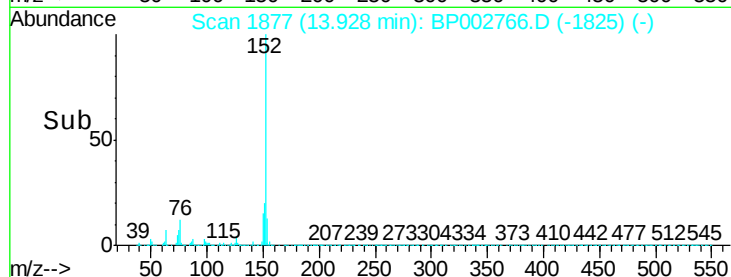
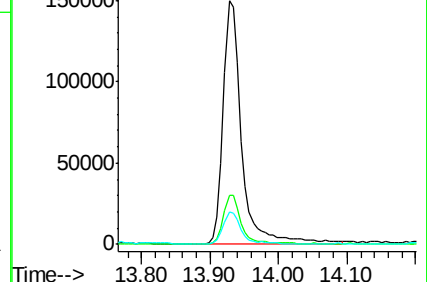
153 13.4 10.9 16.3



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



#54

2,4-Dinitrophenol

Concen: 11.392 ng

RT: 14.35 min Scan# 1949

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

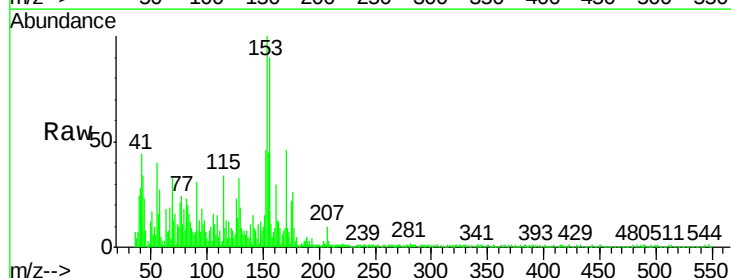
Tgt Ion:184 Resp: 72

Ion Ratio Lower Upper

184 100

63 554.2 51.6 77.4#

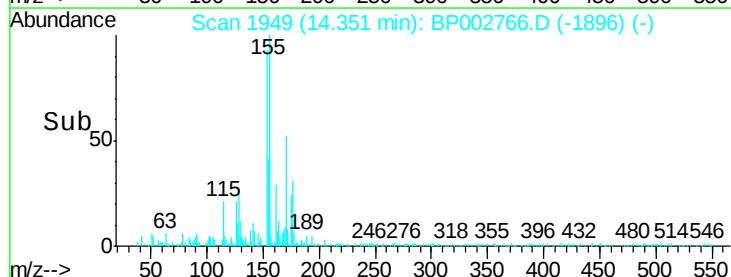
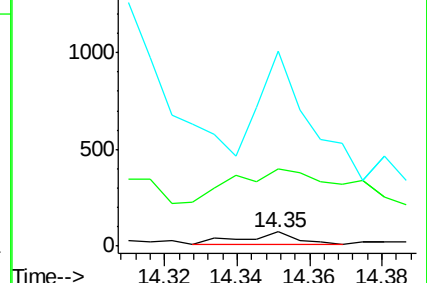
154 1401.4 45.0 67.6#

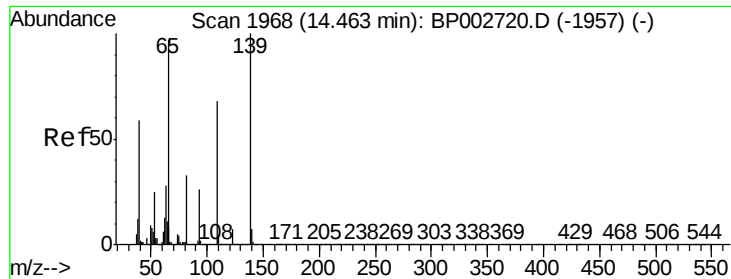


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E

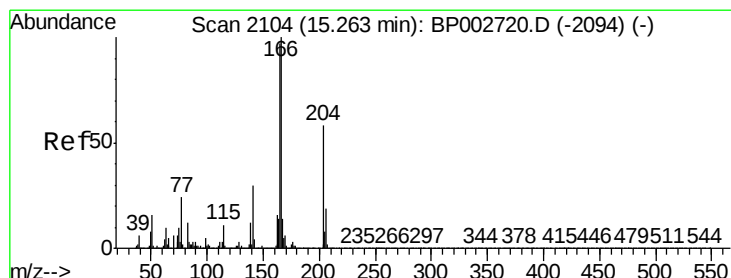
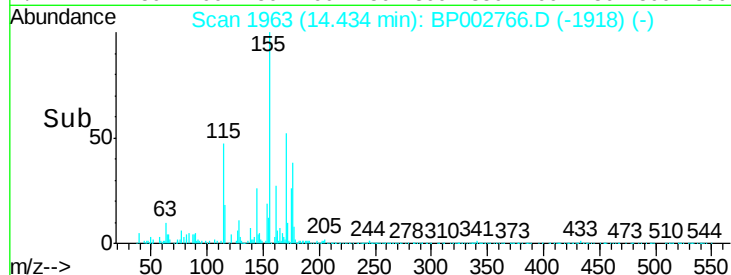
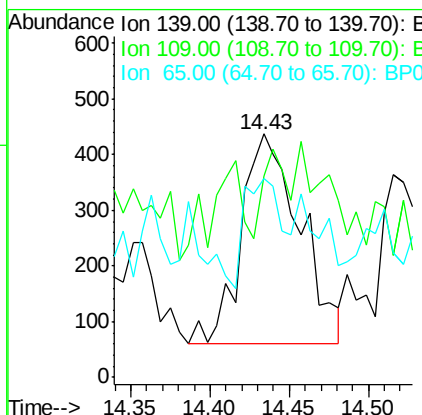
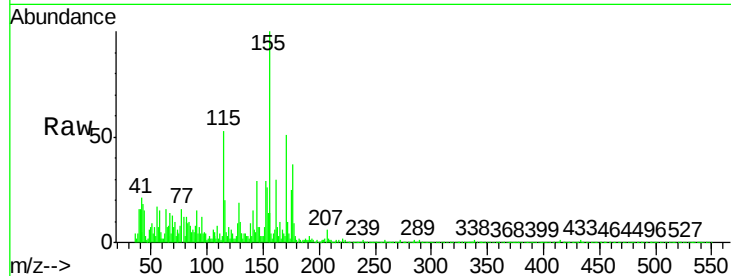




#56
4-Nitrophenol
Concen: 5.135 ng
RT: 14.43 min Scan# 1963
Delta R.T. -0.04 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

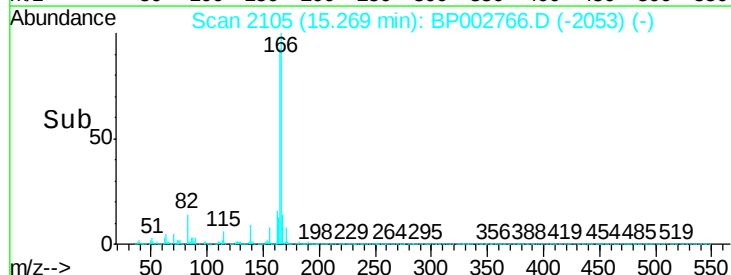
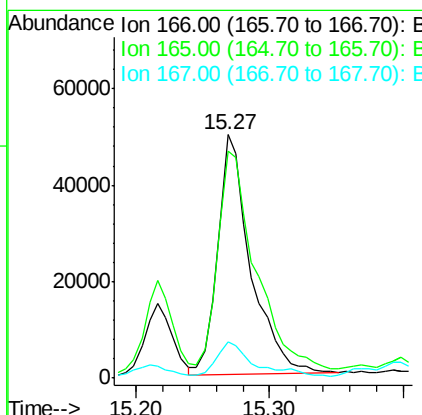
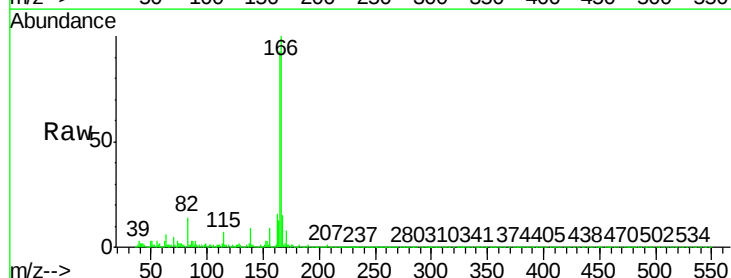
Instrument :
BNA_P
ClientSampleId :
OK-01-071420

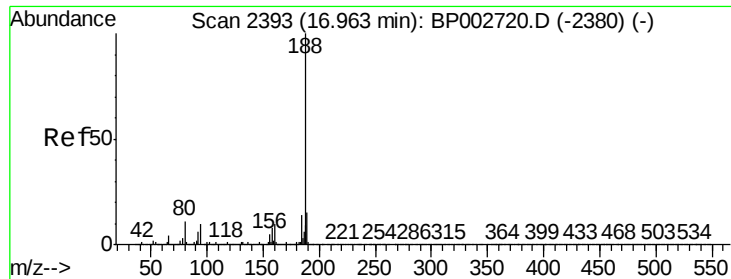
Tot Ion:139 Resp: 969
Ion Ratio Lower Upper
139 100
109 82.6 48.1 88.1
65 81.7 77.9 117.9



#58
Fluorene
Concen: 3.334 ng
RT: 15.27 min Scan# 2105
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion:166 Resp: 85961
Ion Ratio Lower Upper
166 100
165 93.1 77.7 116.5
167 14.8 11.0 16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.97 min Scan# 2395

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

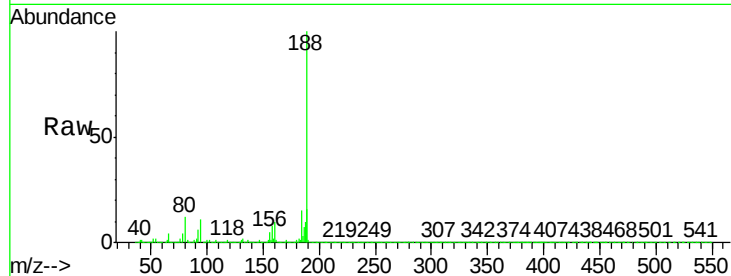
Tot Ion:188 Resp: 795399

Ion Ratio Lower Upper

188 100

94 10.9 8.1 12.1

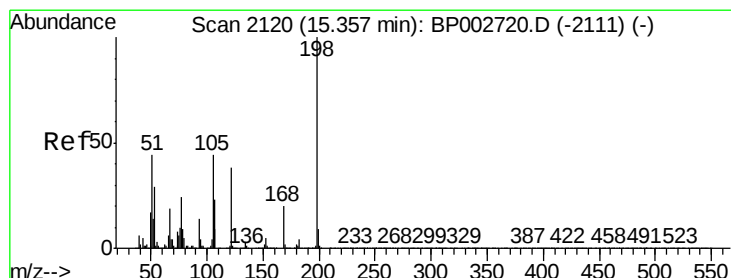
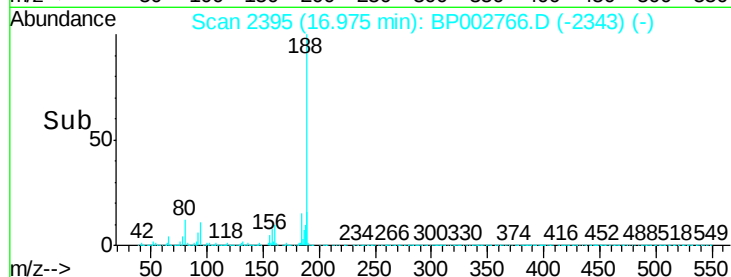
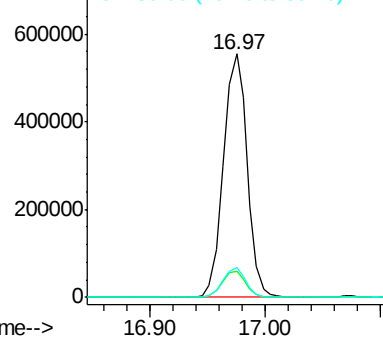
80 12.2 8.9 13.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.281 ng

RT: 15.37 min Scan# 2123

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

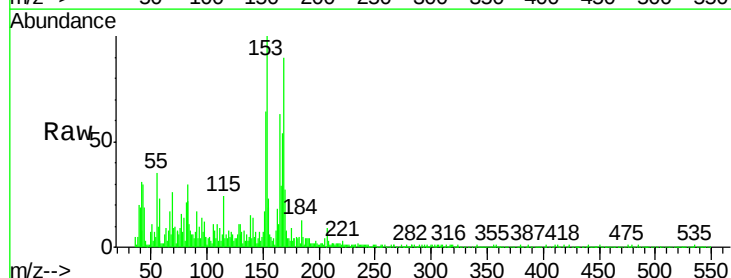
Tgt Ion:198 Resp: 77

Ion Ratio Lower Upper

198 100

51 451.1 27.1 67.1#

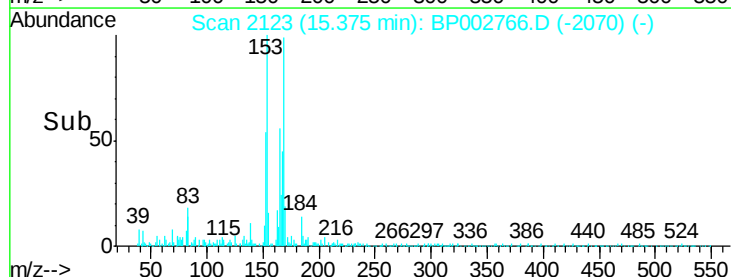
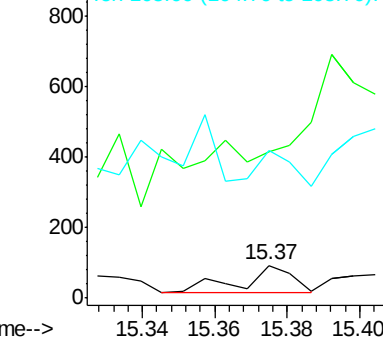
105 455.4 24.9 64.9#

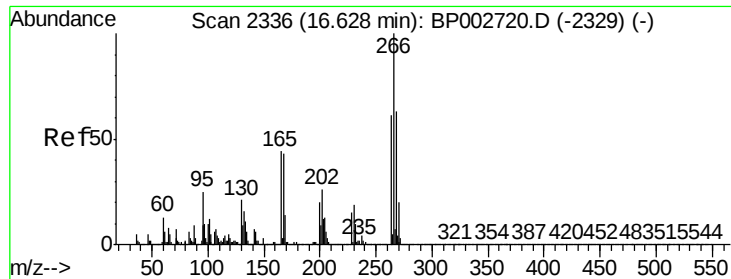


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BP0

Ion 105.00 (104.70 to 105.70): E

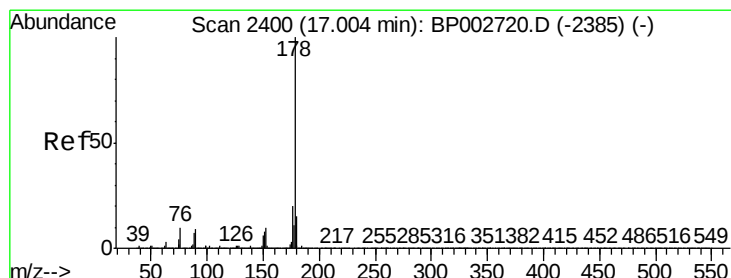
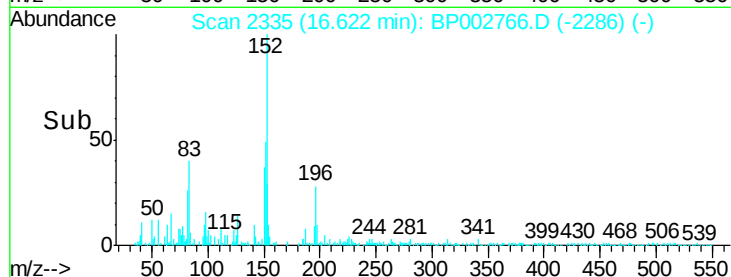
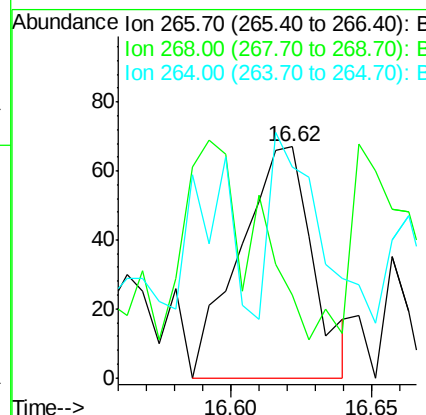
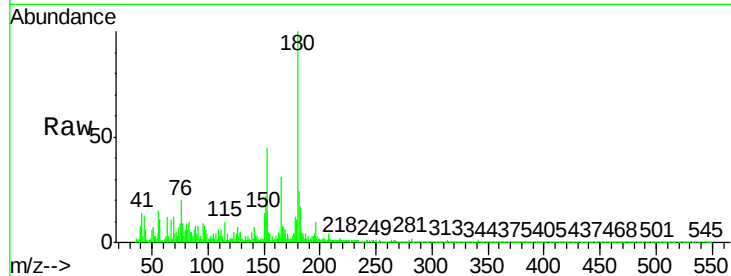




#70
 Pentachlorophenol
 Concen: 7.466 ng
 RT: 16.62 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

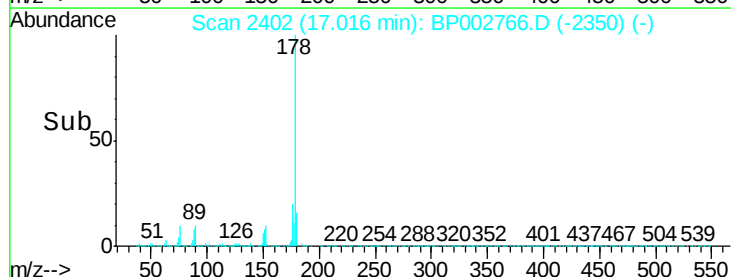
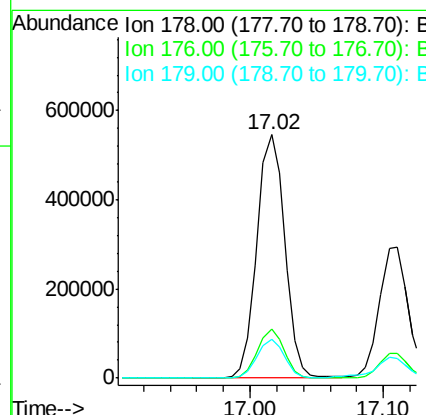
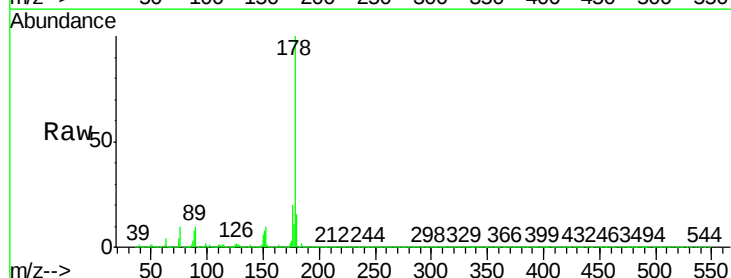
Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071420

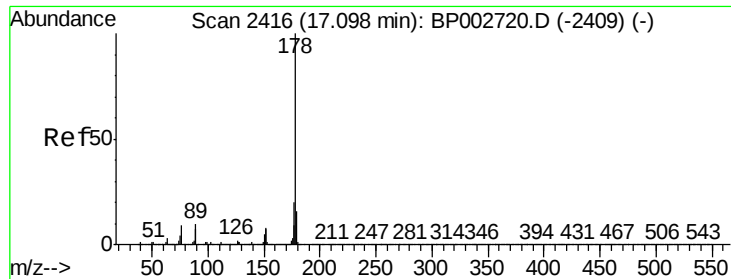
Tot Ion	Ratio	Lower	Upper
266	100		
268	35.8	50.6	75.8#
264	91.0	48.6	72.8#



#71
 Phenanthrene
 Concen: 18.208 ng
 RT: 17.02 min Scan# 2402
 Delta R.T. 0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	16.1	12.3	18.5

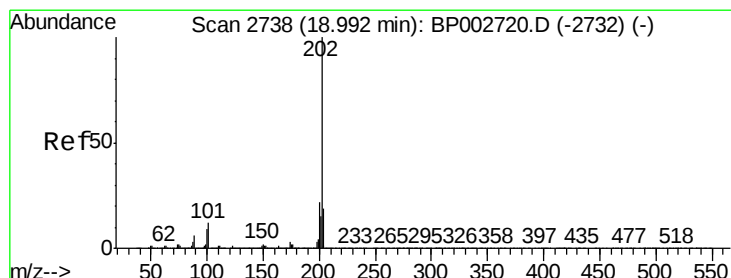
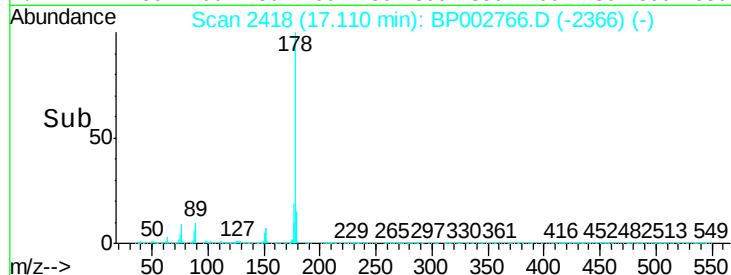
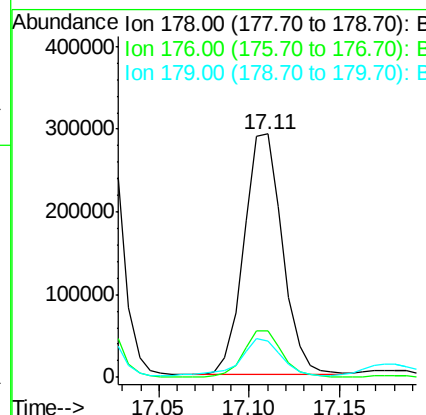
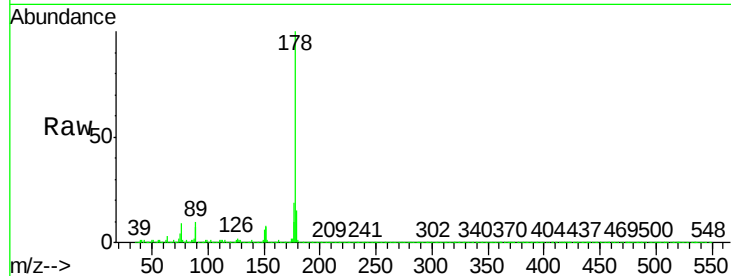




#72
 Anthracene
 Concen: 10.192 ng
 RT: 17.11 min Scan# 2418
 Delta R.T. 0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

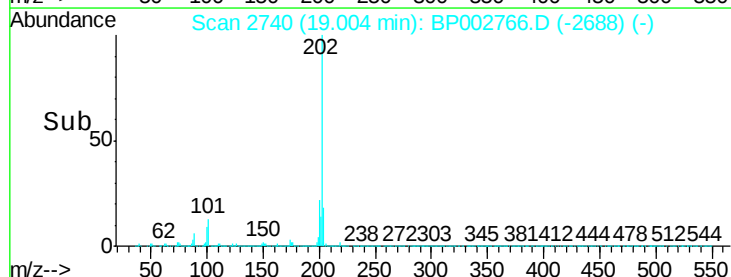
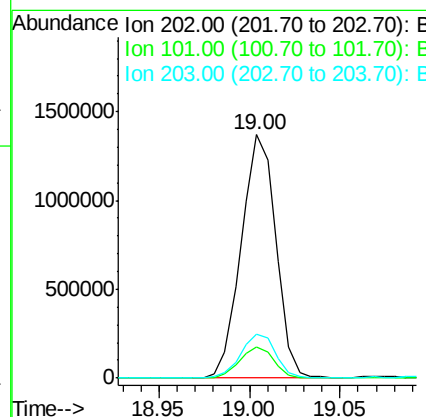
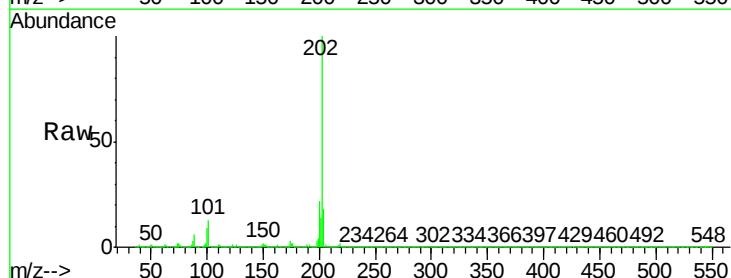
Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071420

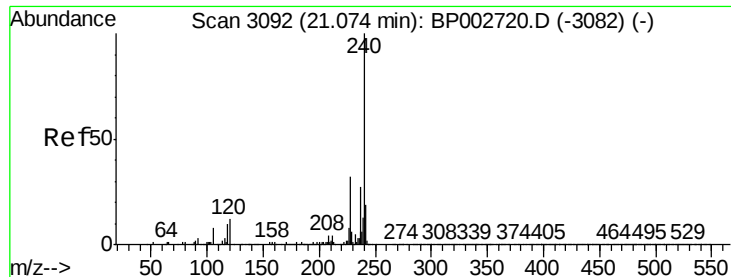
Tot Ion:178 Resp: 430721
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.6 23.4
 179 15.1 12.6 19.0



#75
 Fluoranthene
 Concen: 36.565 ng
 RT: 19.00 min Scan# 2740
 Delta R.T. 0.01 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

Tgt Ion:202 Resp: 1824642
 Ion Ratio Lower Upper
 202 100
 101 12.7 0.0 32.5
 203 18.1 0.0 38.6

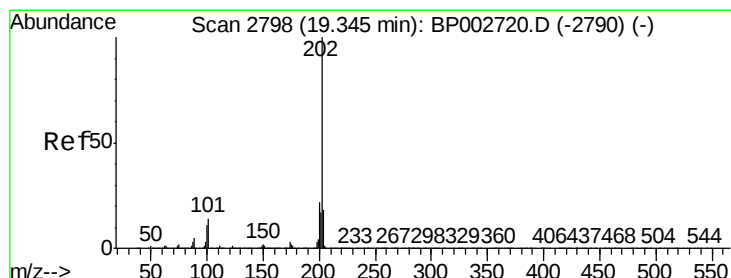
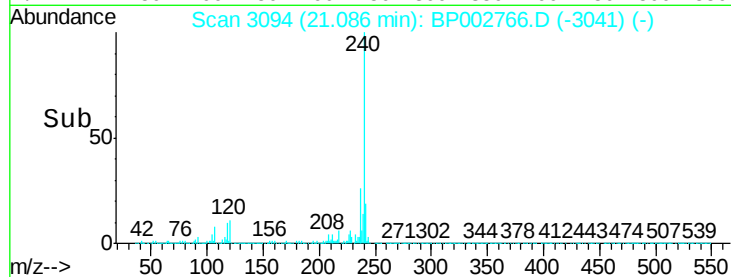
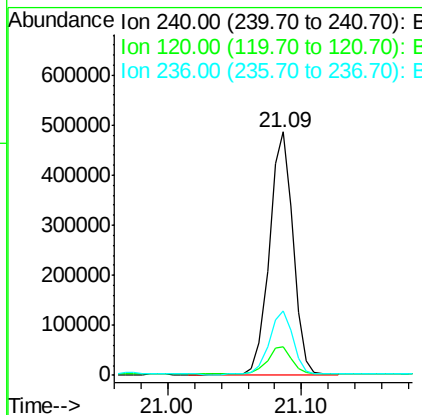
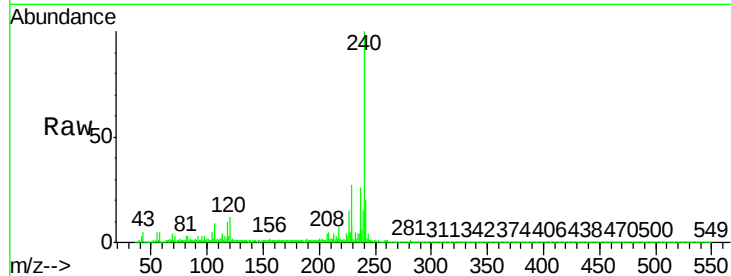




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.09 min Scan# 3094
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

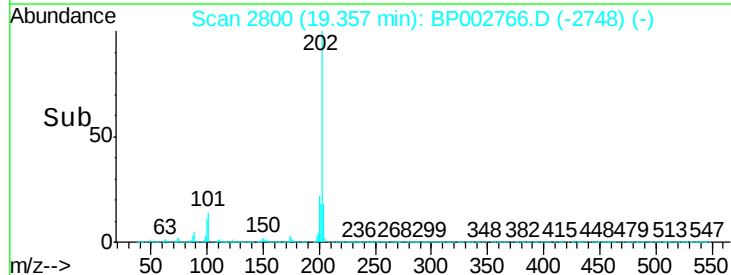
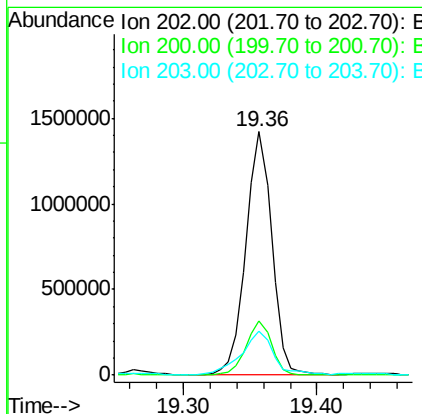
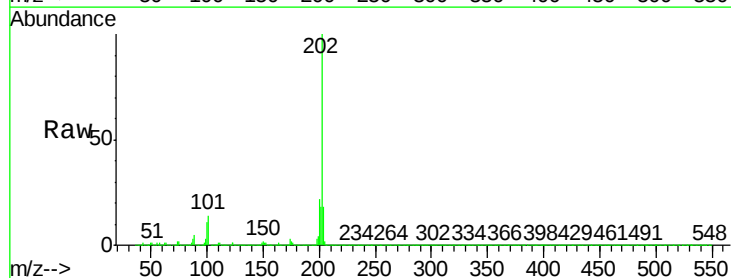
Instrument :
BNA_P
ClientSampleId :
OK-01-071420

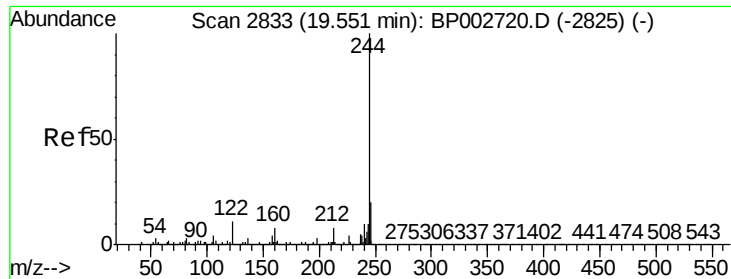
Tot Ion:240 Resp: 595332
Ion Ratio Lower Upper
240 100
120 11.7 9.4 14.2
236 26.4 21.3 31.9



#78
Pyrene
Concen: 46.030 ng
RT: 19.36 min Scan# 2800
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion:202 Resp: 1891989
Ion Ratio Lower Upper
202 100
200 22.2 17.7 26.5
203 18.2 14.5 21.7





#79

Terphenyl-d14

Concen: 8.965 ng

RT: 19.56 min Scan# 2835

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

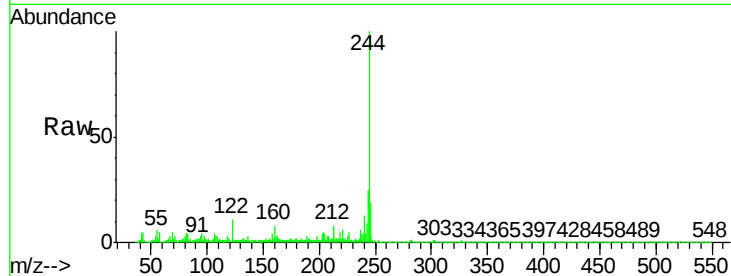
Tot Ion:244 Resp: 232795

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

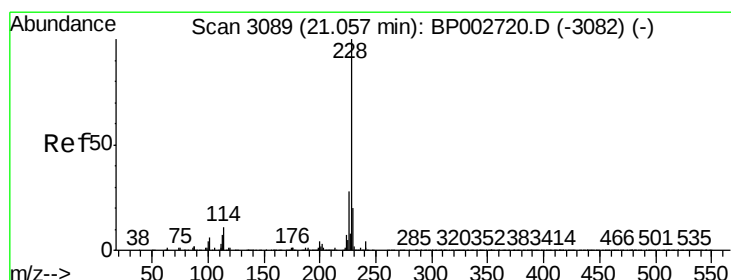
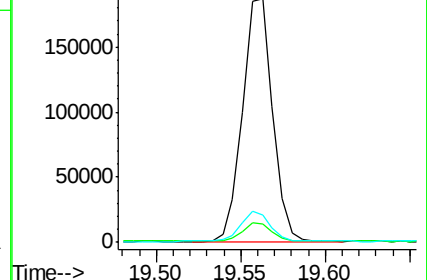
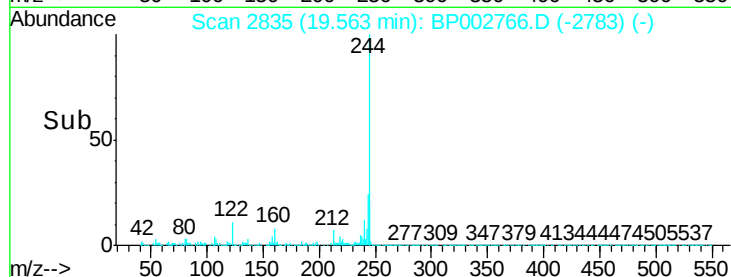
122 11.4 8.9 13.3



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: 26.368 ng

RT: 21.07 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

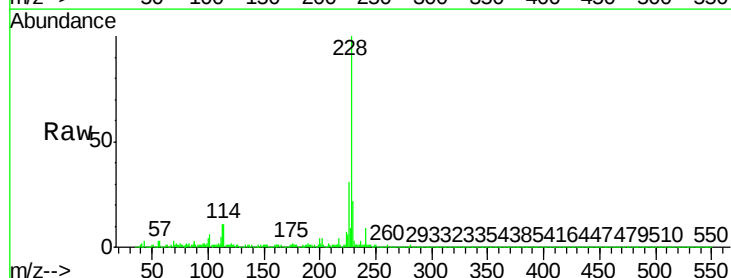
Tgt Ion:228 Resp: 1016161

Ion Ratio Lower Upper

228 100

226 30.7 22.6 34.0

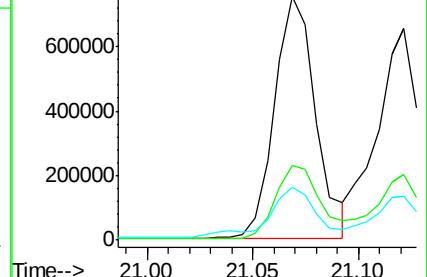
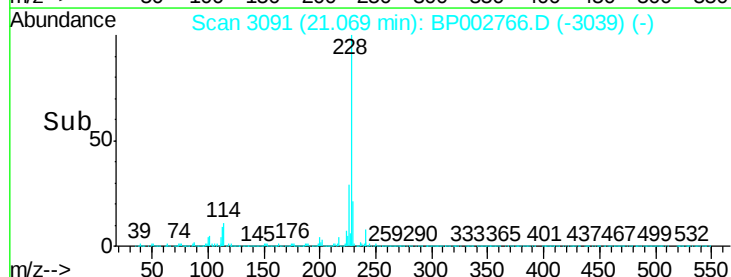
229 22.0 16.0 24.0

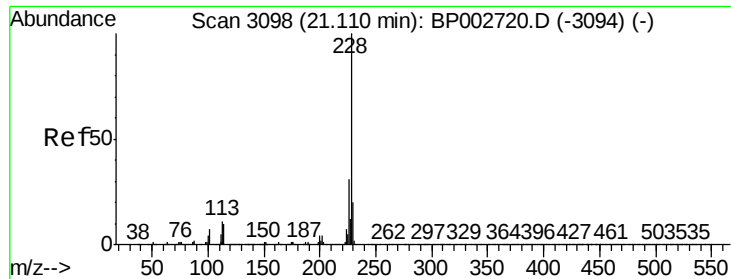


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

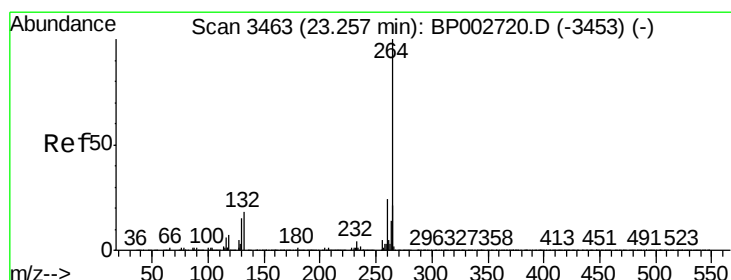
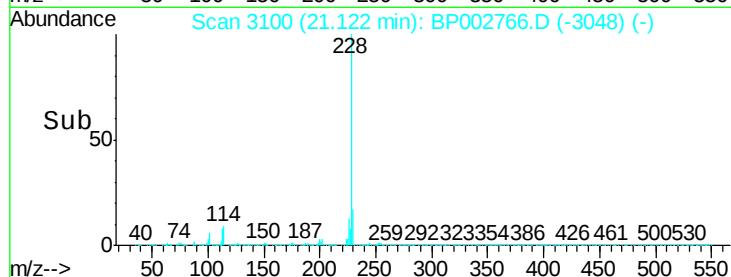
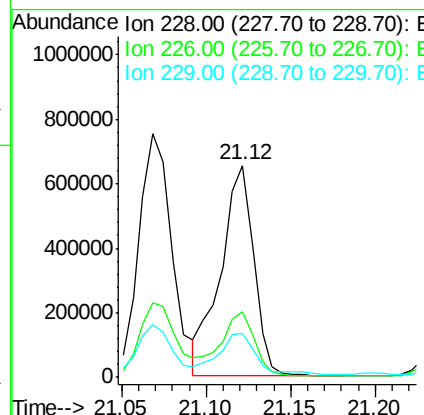
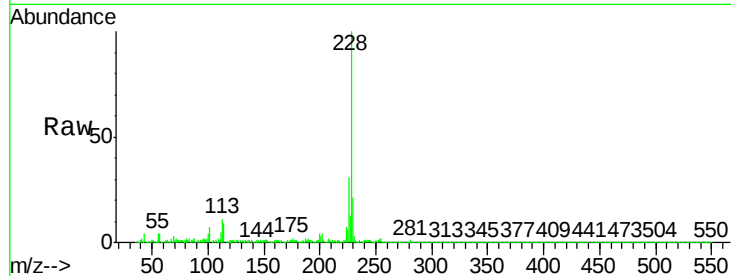




#83
Chrysene
Concen: 24.376 ng
RT: 21.12 min Scan# 3100
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

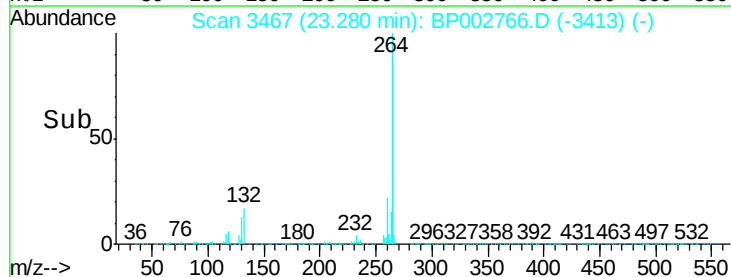
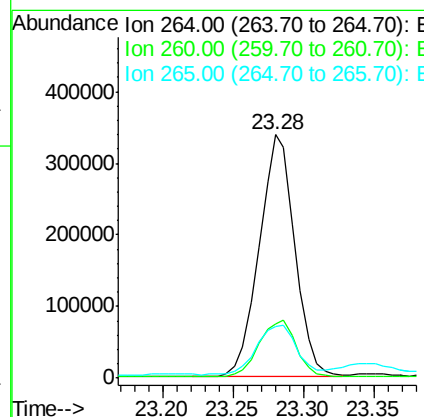
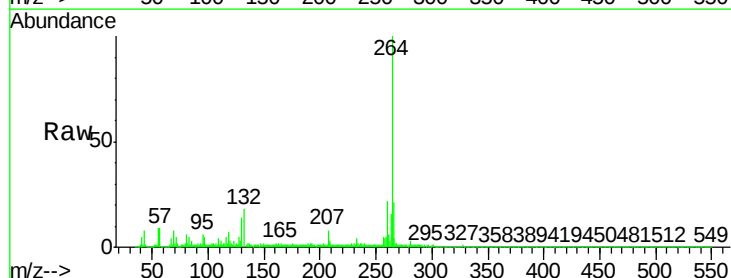
Instrument :
BNA_P
ClientSampleId :
OK-01-071420

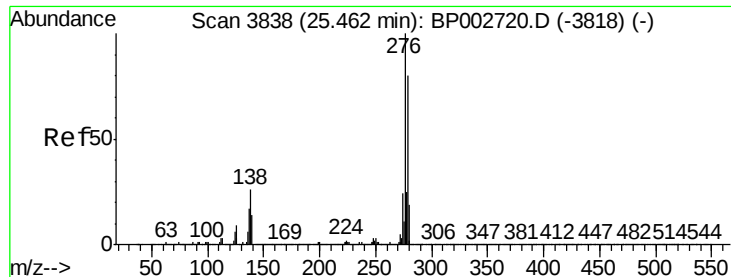
Tot Ion:228 Resp: 894188
Ion Ratio Lower Upper
228 100
226 30.7 24.6 37.0
229 20.9 15.7 23.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.28 min Scan# 3467
Delta R.T. 0.02 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion:264 Resp: 596306
Ion Ratio Lower Upper
264 100
260 22.5 19.3 28.9
265 21.4 16.8 25.2

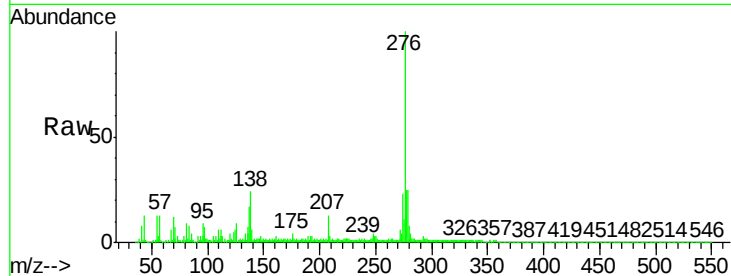




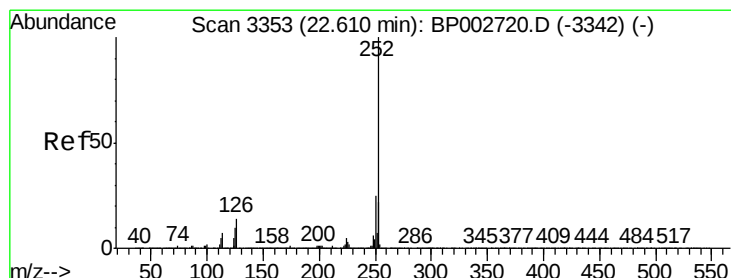
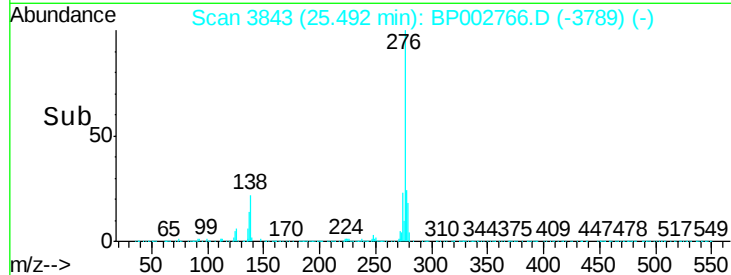
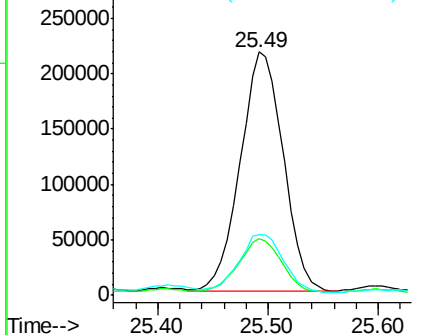
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 13.623 ng
 RT: 25.49 min Scan# 3843
 Delta R.T. 0.02 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071420

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.6	20.8	31.2
277	25.4	20.0	30.0

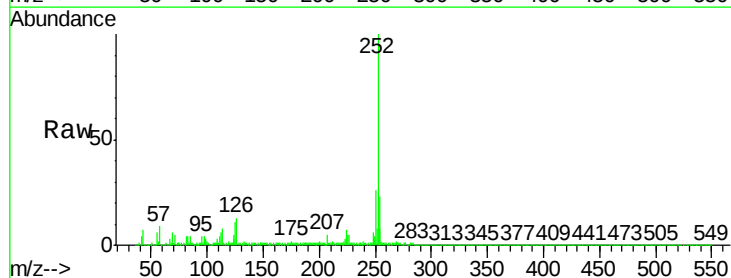


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

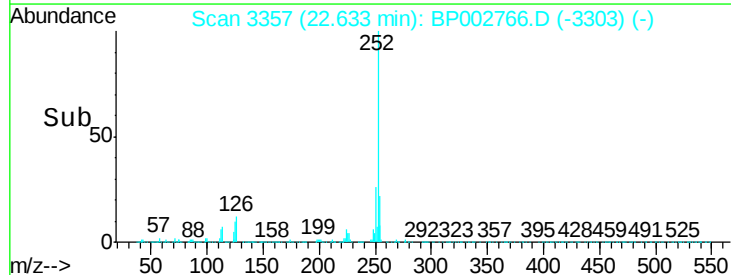
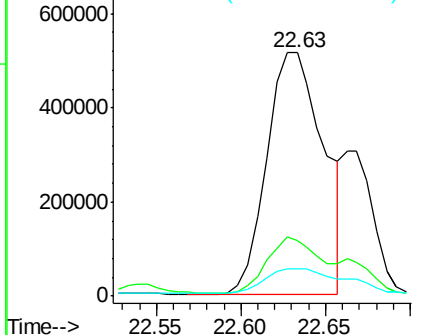


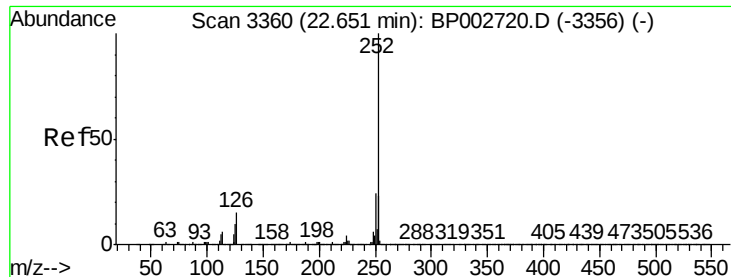
#88
 Benzo(b)fluoranthene
 Concen: 32.376 ng
 RT: 22.63 min Scan# 3357
 Delta R.T. 0.02 min
 Lab File: BP002766.D
 Acq: 15 Jul 2020 21:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.7	26.5
125	11.1	8.2	12.2



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

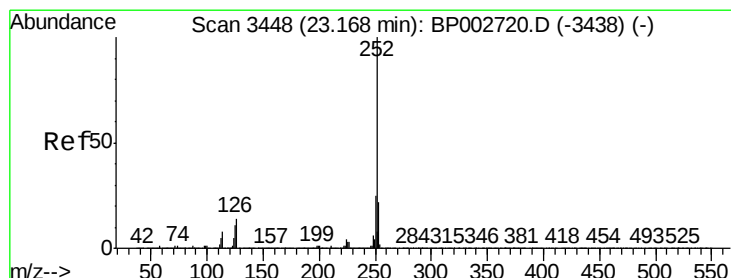
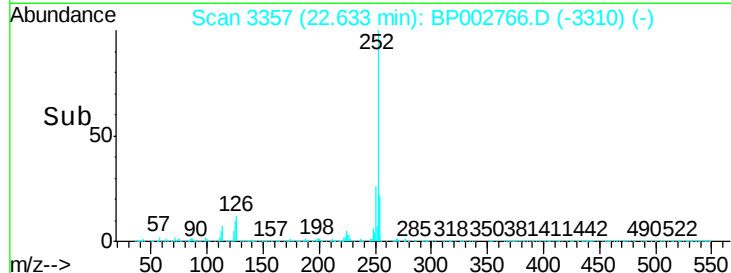
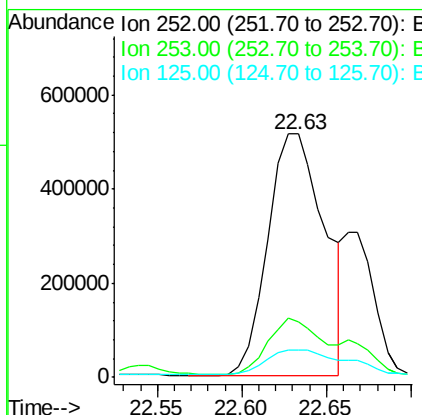
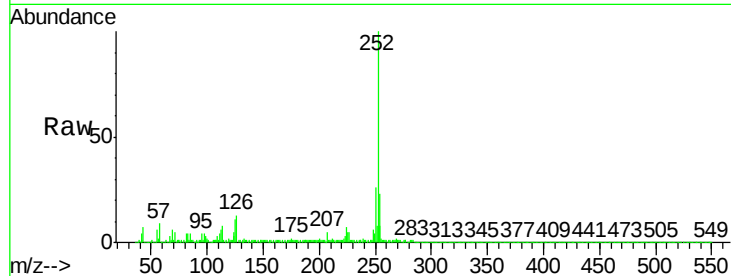




#89
Benzo(k)fluoranthene
Concen: 32.869 ng
RT: 22.63 min Scan# 3357
Delta R.T. -0.02 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

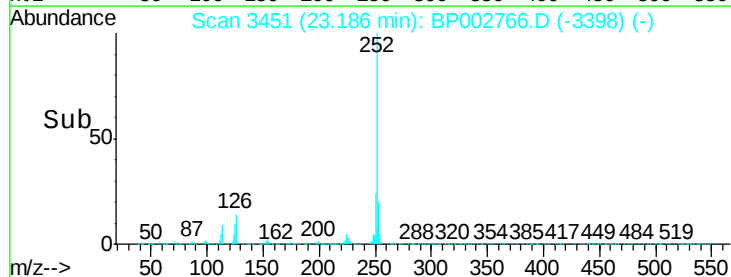
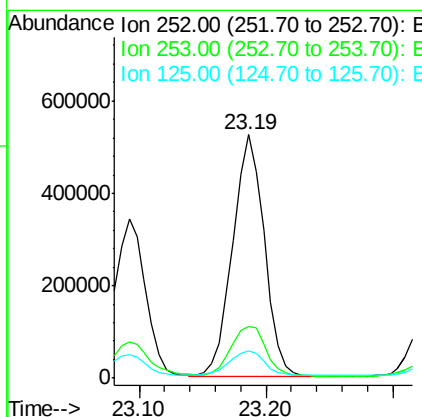
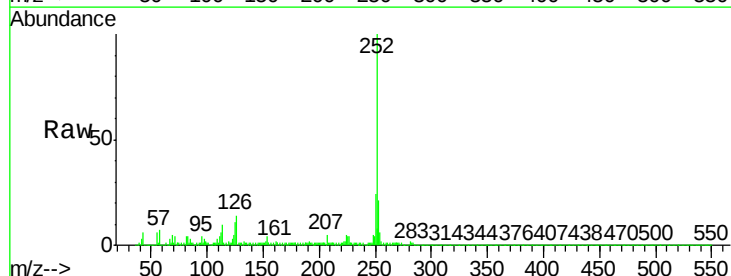
Instrument :
BNA_P
ClientSampleId :
OK-01-071420

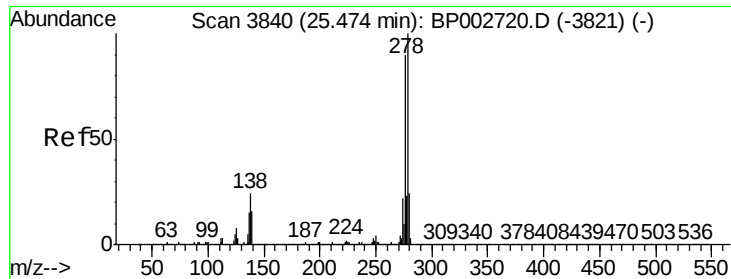
Tot Ion:252 Resp: 1198798
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 11.1 8.3 12.5



#90
Benzo(a)pyrene
Concen: 25.773 ng
RT: 23.19 min Scan# 3451
Delta R.T. 0.01 min
Lab File: BP002766.D
Acq: 15 Jul 2020 21:53

Tgt Ion:252 Resp: 904310
Ion Ratio Lower Upper
252 100
253 21.2 17.6 26.4
125 11.5 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 4.860 ng

RT: 25.50 min Scan# 3844

Delta R.T. 0.02 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

Instrument :

BNA_P

ClientSampleId :

OK-01-071420

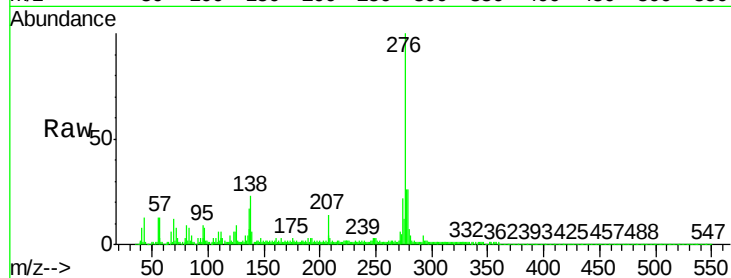
Tot Ion:278 Resp: 168909

Ion Ratio Lower Upper

278 100

139 22.9 13.1 19.7#

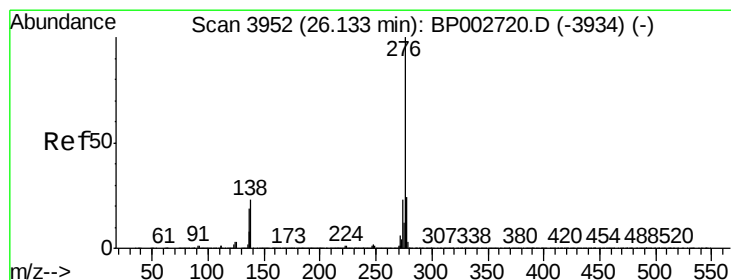
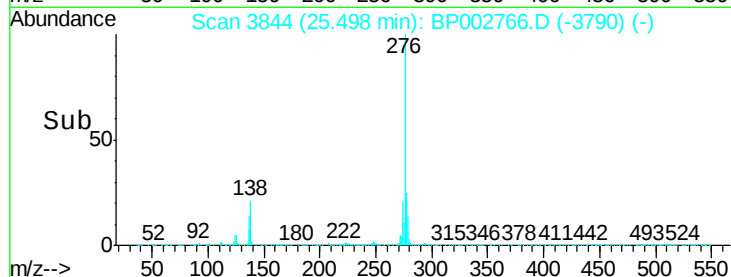
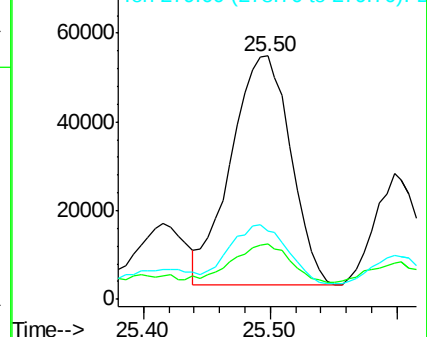
279 28.3 19.0 28.6



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: 16.043 ng

RT: 26.17 min Scan# 3958

Delta R.T. 0.02 min

Lab File: BP002766.D

Acq: 15 Jul 2020 21:53

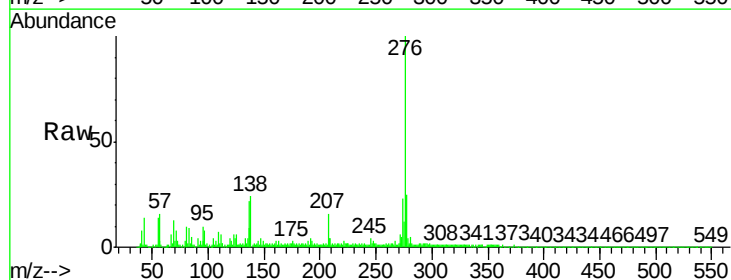
Tgt Ion:276 Resp: 565377

Ion Ratio Lower Upper

276 100

277 25.2 19.1 28.7

138 23.8 18.3 27.5



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

