

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP070120\
 Data File : BP002616.D
 Acq On : 01 Jul 2020 21:54
 Operator : CG/JU
 Sample : L2815-18 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OR-03-062920

Quant Time: Jul 02 01:01:15 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 29 16:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	273472	20.00	ng	0.00
21) Naphthalene-d8	10.34	136	1142361	20.00	ng	0.00
39) Acenaphthene-d10	14.22	164	705446	20.00	ng	0.00
64) Phenanthrene-d10	16.98	188	1515020	20.00	ng	0.00
76) Chrysene-d12	21.09	240	1148915	20.00	ng	0.00
86) Perylene-d12	23.28	264	1004078	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	312358	19.34	ng	0.00
7) Phenol-d6	6.76	99	428777	19.02	ng	0.00
23) Nitrobenzene-d5	8.72	82	235847	10.64	ng	0.00
42) 2,4,6-Tribromophenol	15.72	330	151334	17.64	ng	0.00
45) 2-Fluorobiphenyl	12.83	172	627839	13.10	ng	0.00
79) Terphenyl-d14	19.57	244	928660	17.45	ng	0.00

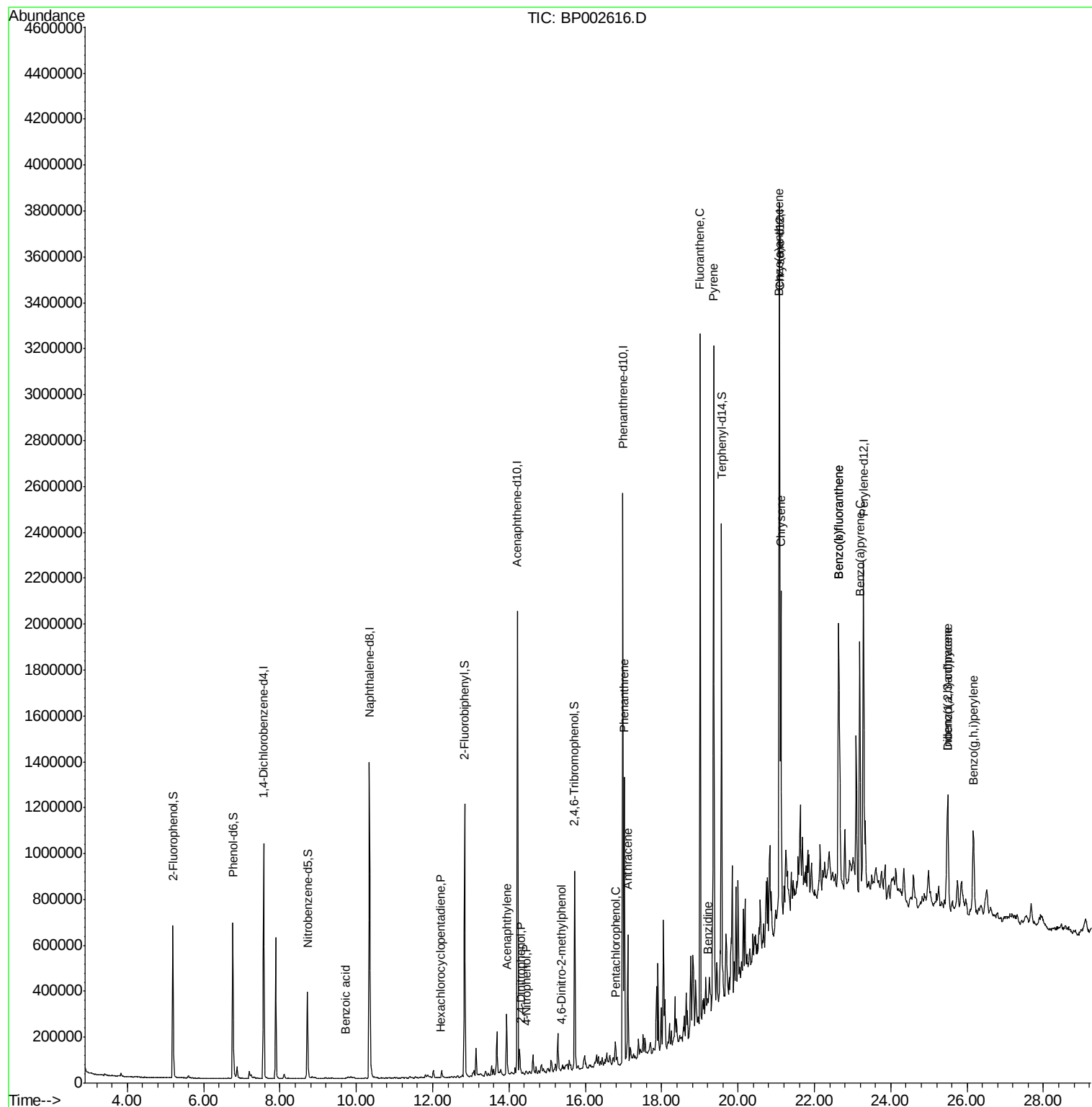
Target Compounds				Qvalue		
9) Benzaldehyde	6.69	77	141	Below Cal	#	34
32) Benzoic acid	9.71	122	58	8.703	ng	93
41) Hexachlorocyclopentadiene	12.20	237	32	4.384	ng	88
49) Acenaphthylene	13.93	152	209738	3.068	ng	99
54) 2,4-Dinitrophenol	14.30	184	14	6.011	ng	# 1
56) 4-Nitrophenol	14.45	139	536	2.486	ng	# 74
65) 4,6-Dinitro-2-methylphenol	15.36	198	48	2.714	ng	# 1
70) Pentachlorophenol	16.79	266	26	2.664	ng	88
71) Phenanthrene	17.02	178	754971	9.262	ng	99
72) Anthracene	17.11	178	334191	4.120	ng	100
75) Fluoranthene	19.00	202	1811264	18.357	ng	98
77) Benzidine	19.21	184	226	3.760	ng	# 1
78) Pvrene	19.36	202	1722432	22.025	ng	99
81) Benzo(a)anthracene	21.07	228	902123	12.010	ng	99
83) Chrysene	21.12	228	777918	10.800	ng	98
87) Indeno(1,2,3-cd)pyrene	25.49	276	455631	6.302	ng	99
88) Benzo(b)fluoranthene	22.63	252	985391	15.380	ng	98
89) Benzo(k)fluoranthene	22.63	252	985391	16.486	ng	# 97
90) Benzo(a)pvrene	23.19	252	723623	12.308	ng	# 98
91) Dibenzo(a,h)anthracene	25.50	278	122462	2.073	ng	# 89
92) Benzo(g,h,i)perylene	26.16	276	452518	7.659	ng	97

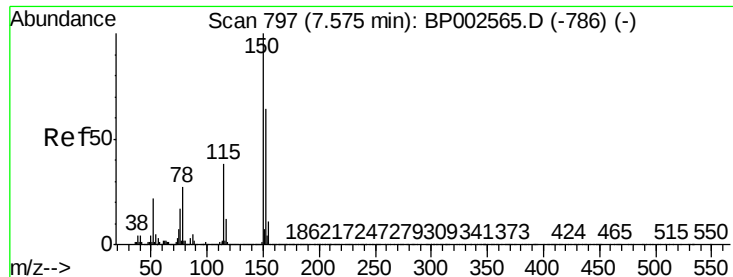
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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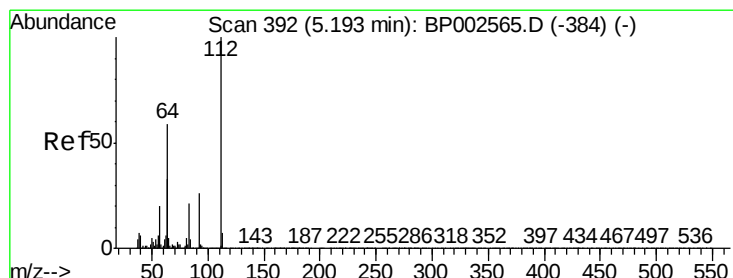
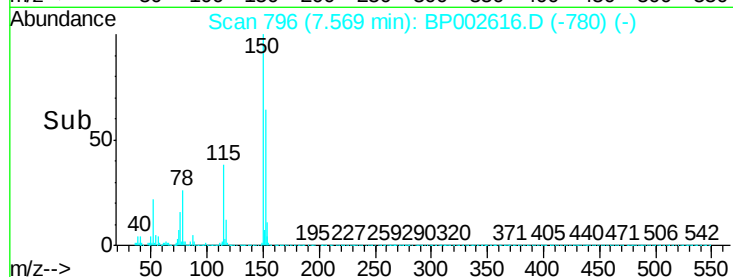
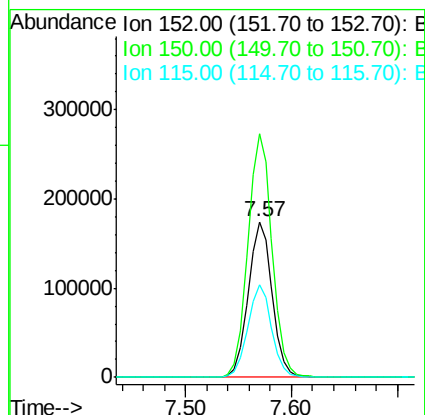
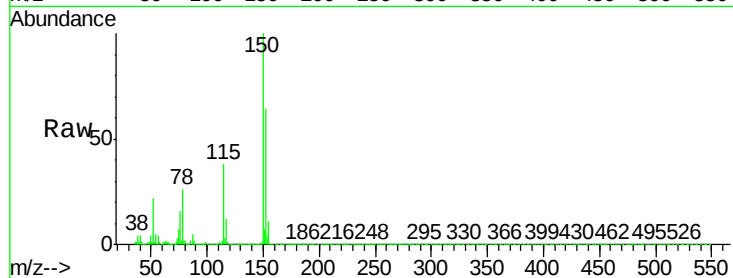


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.57 min Scan# 796
Delta R.T. -0.01 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

Instrument :
BNA_P
ClientSampleId :
OR-03-062920

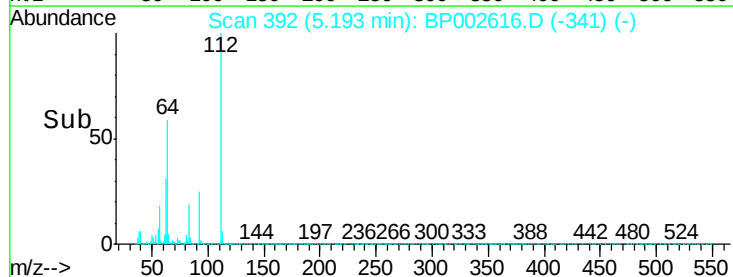
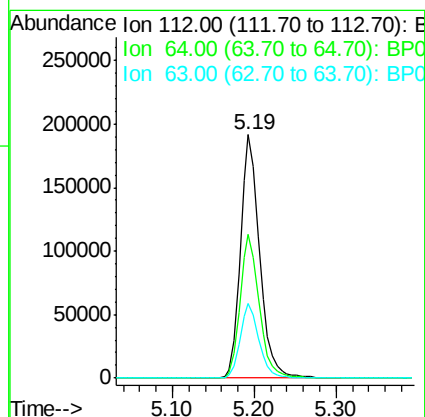
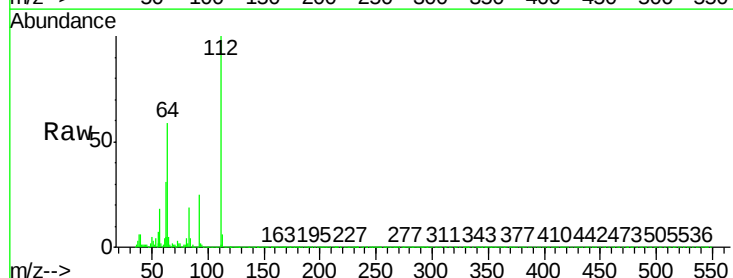
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.2	186.2
115	59.6	47.1	70.7

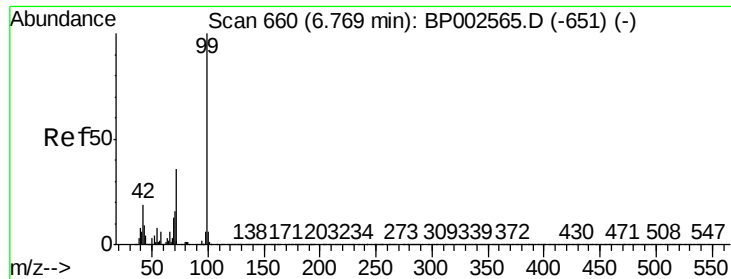


#5

2-Fluorophenol
Concen: 19.339 ng
RT: 5.19 min Scan# 392
Delta R.T. -0.00 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.0	70.6
63	30.6	26.1	39.1





#7

Phenol-d6

Concen: 19.020 ng

RT: 6.76 min Scan# 659

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

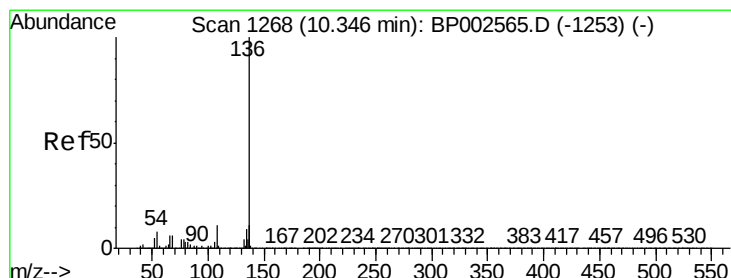
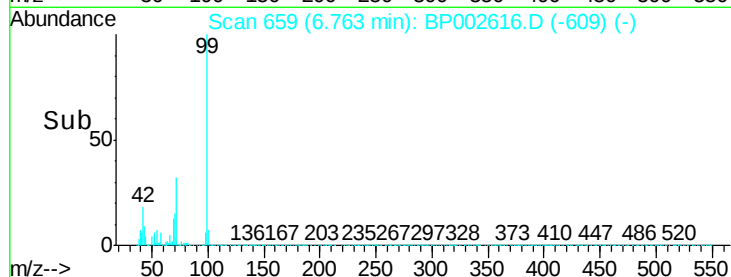
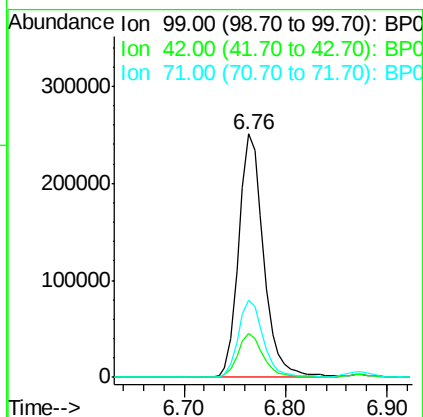
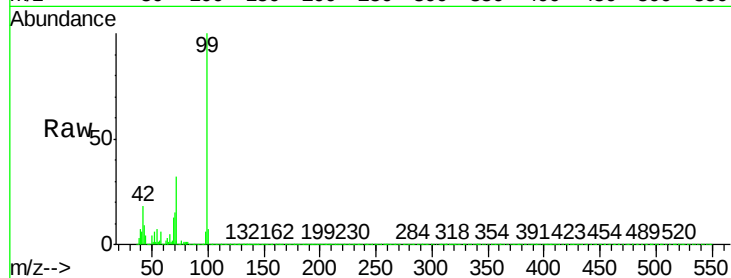
Tot Ion: 99 Resp: 428777

Ion Ratio Lower Upper

99 100

42 18.0 15.5 23.3

71 31.6 28.9 43.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.34 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Tgt Ion: 136 Resp: 1142361

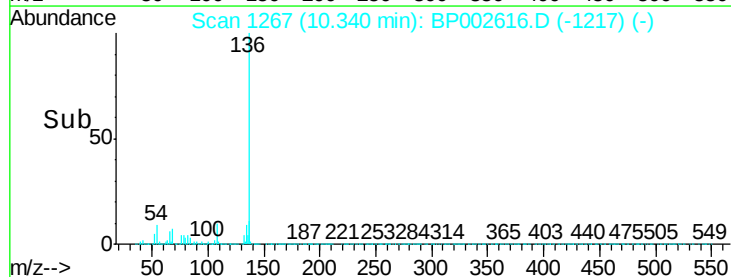
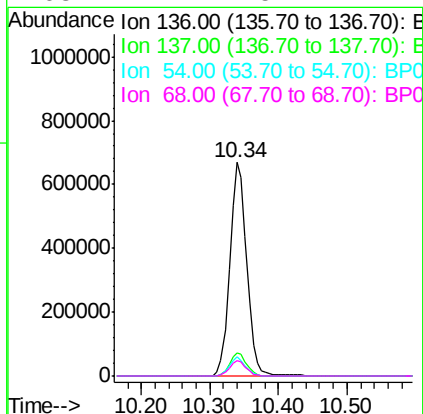
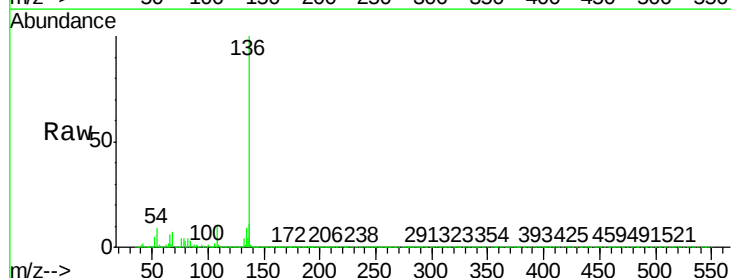
Ion Ratio Lower Upper

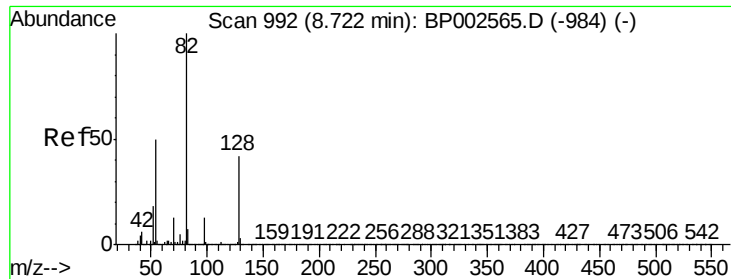
136 100

137 11.0 8.8 13.2

54 8.7 6.4 9.6

68 7.2 5.1 7.7

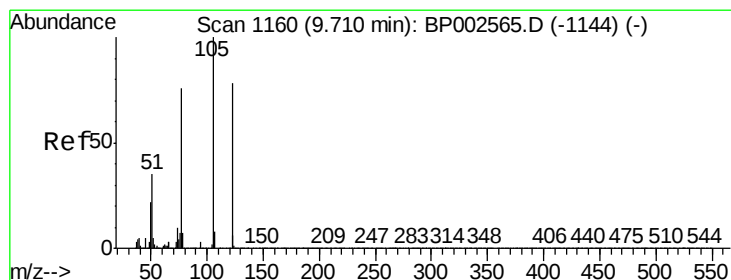
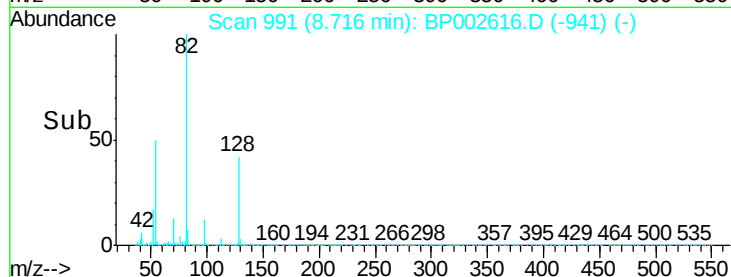
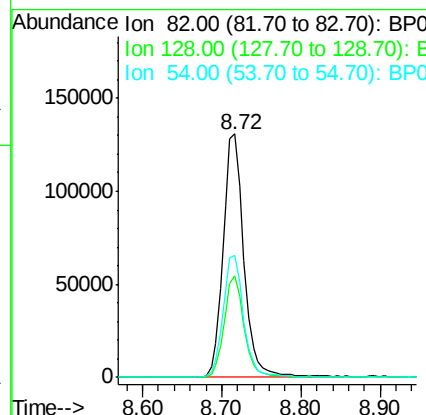
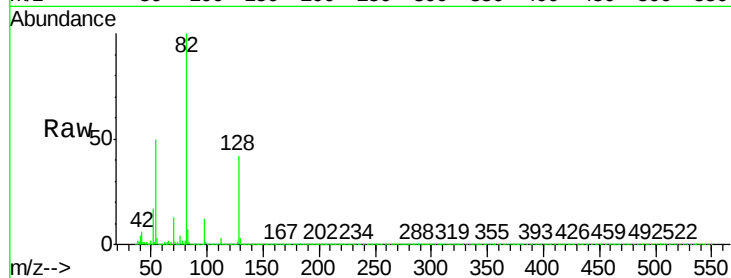




#23
 Nitrobenzene-d5
 Concen: 10.638 ng
 RT: 8.72 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

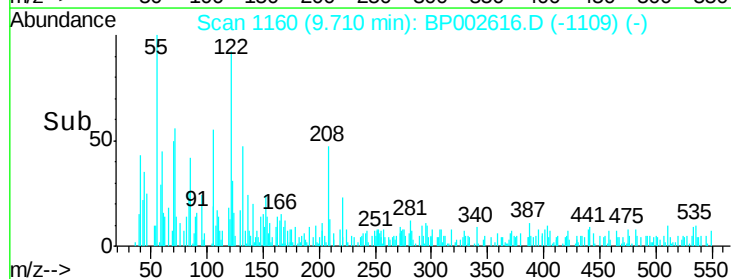
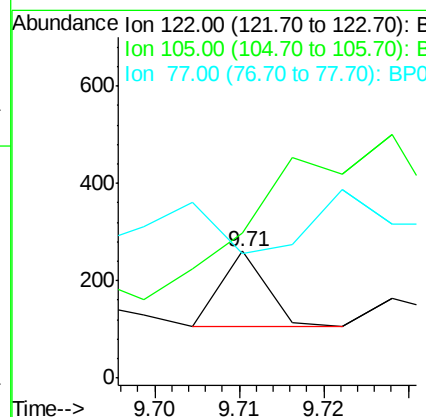
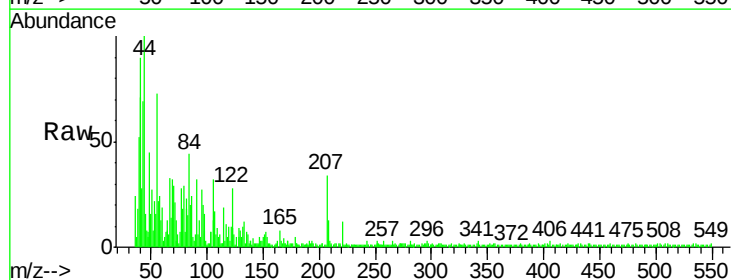
Instrument :
 BNA_P
 ClientSampleId :
 OR-03-062920

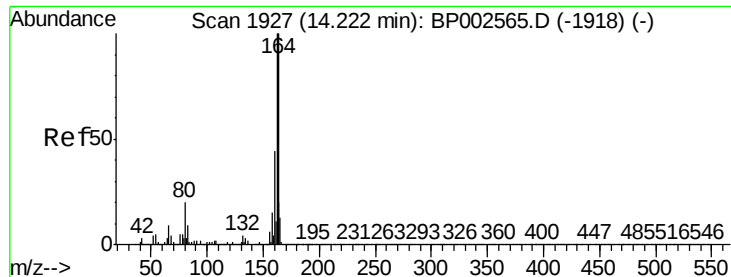
Tot Ion	82	Resp	235847
Ion Ratio	Lower	Upper	
82	100		
128	41.7	33.4	50.2
54	50.0	40.1	60.1



#32
 Benzoic acid
 Concen: 8.703 ng
 RT: 9.71 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

Tgt Ion	122	Resp	58
Ion Ratio	Lower	Upper	
122	100		
105	114.2	106.6	146.6
77	98.5	76.5	116.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.22 min Scan# 1926

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

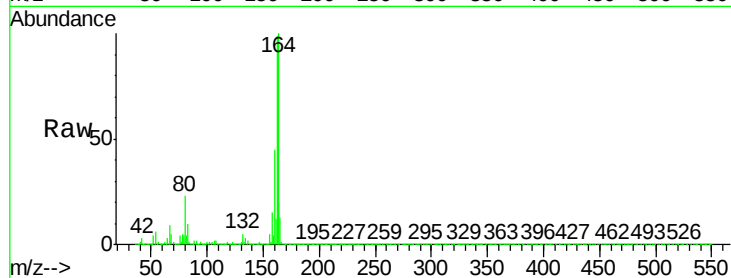
Tot Ion:164 Resp: 705446

Ion Ratio Lower Upper

164 100

162 99.1 80.3 120.5

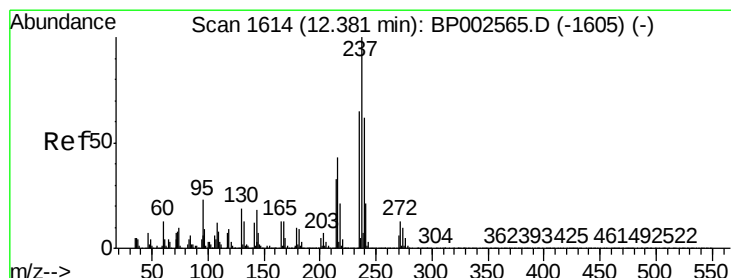
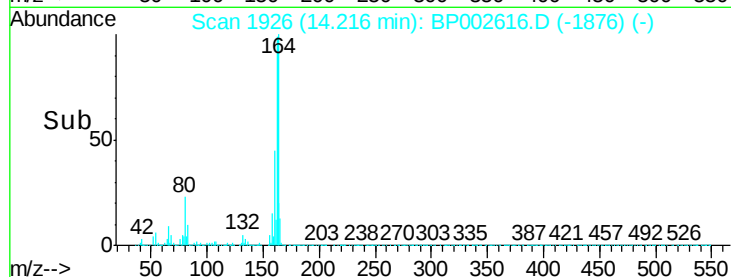
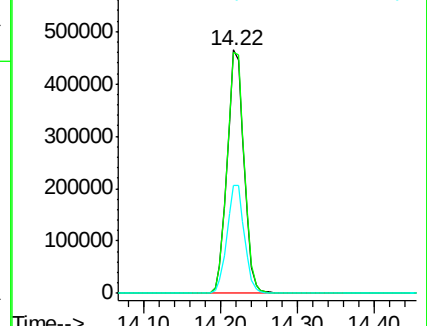
160 44.5 35.0 52.6



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: 4.384 ng

RT: 12.20 min Scan# 1584

Delta R.T. -0.18 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

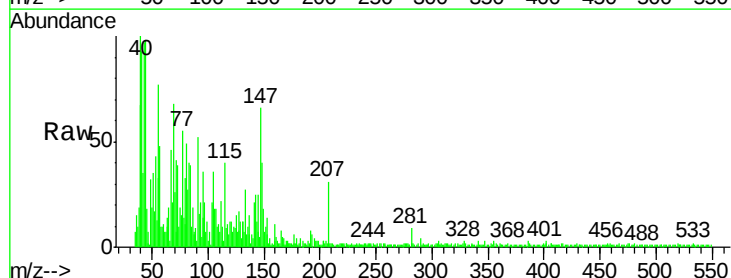
Tgt Ion:237 Resp: 32

Ion Ratio Lower Upper

237 100

235 58.6 45.4 85.4

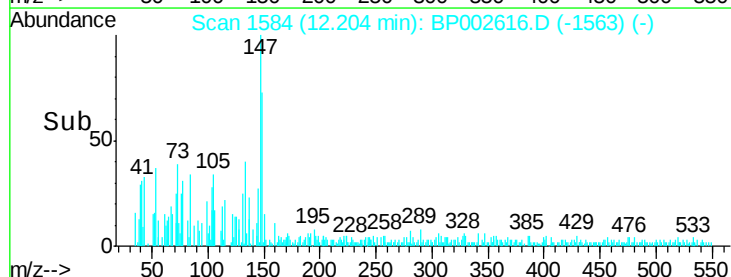
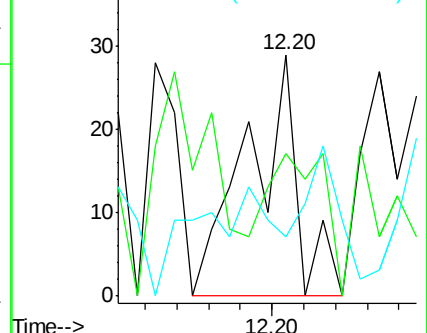
272 24.1 0.0 32.6

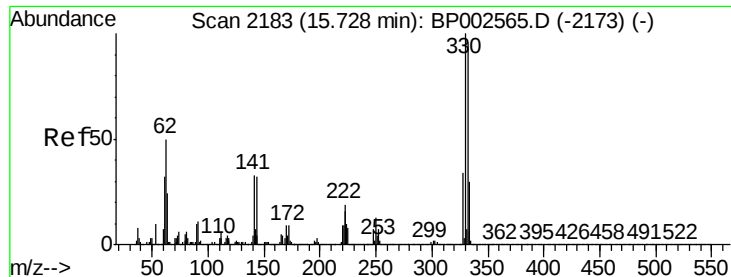


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

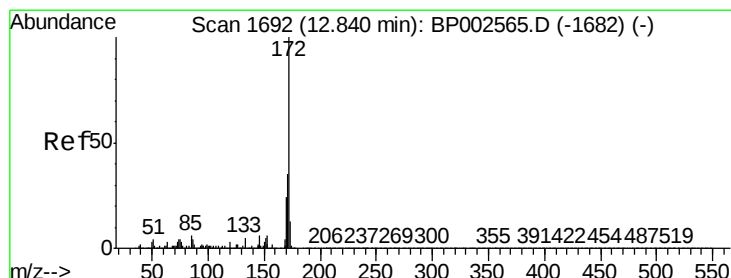
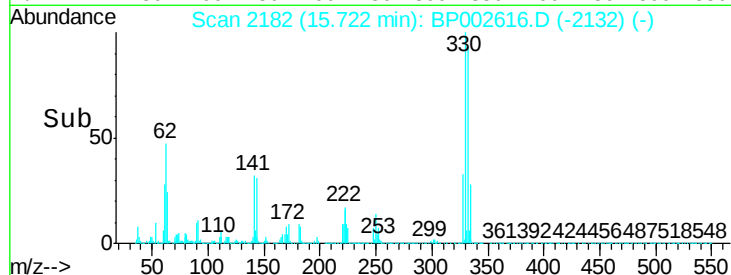
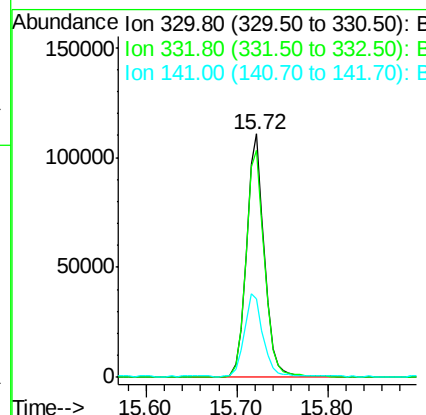
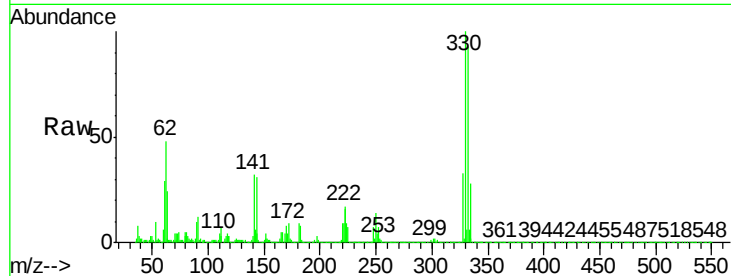




#42
 2,4,6-Tribromophenol
 Concen: 17.638 ng
 RT: 15.72 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

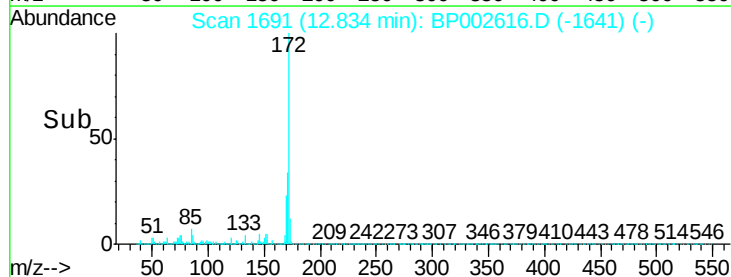
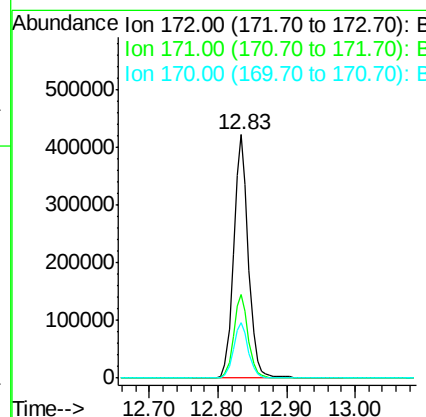
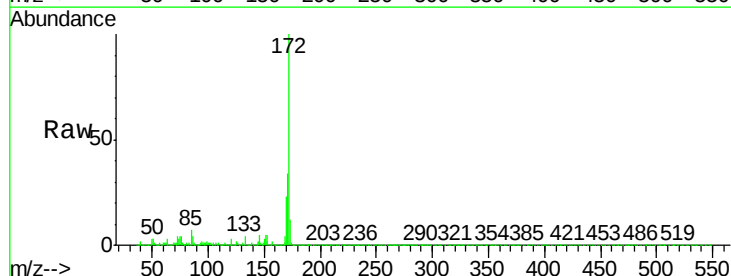
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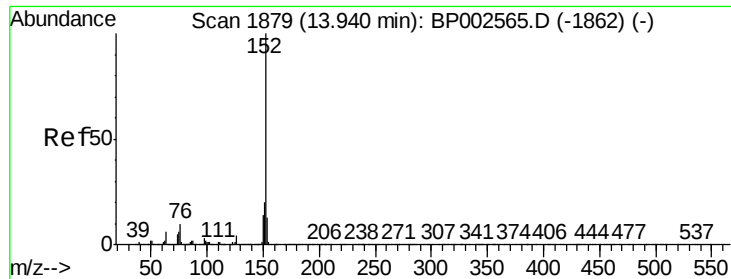
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.7	116.5
141	35.3	29.0	43.6



#45
 2-Fluorobiphenyl
 Concen: 13.099 ng
 RT: 12.83 min Scan# 1691
 Delta R.T. -0.01 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.0	42.0
170	22.7	19.0	28.4





#49

Acenaphthylene

Concen: 3.068 ng

RT: 13.93 min Scan# 1878

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

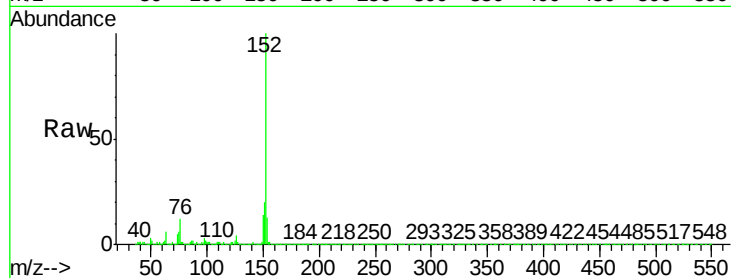
Tot Ion:152 Resp: 209738

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

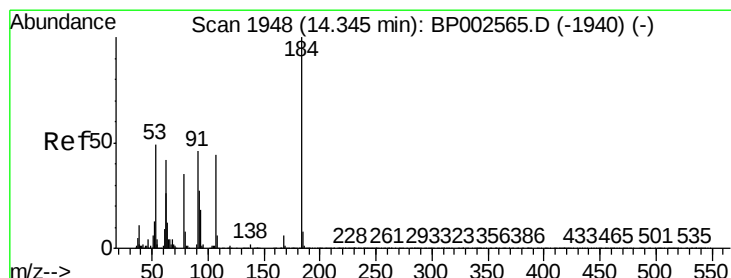
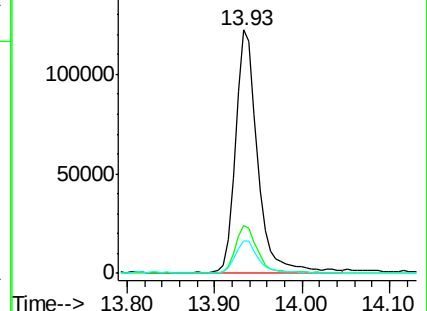
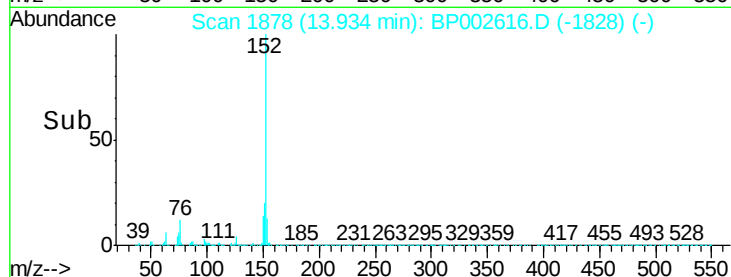
153 13.4 10.2 15.2



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: 6.011 ng

RT: 14.30 min Scan# 1941

Delta R.T. -0.04 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

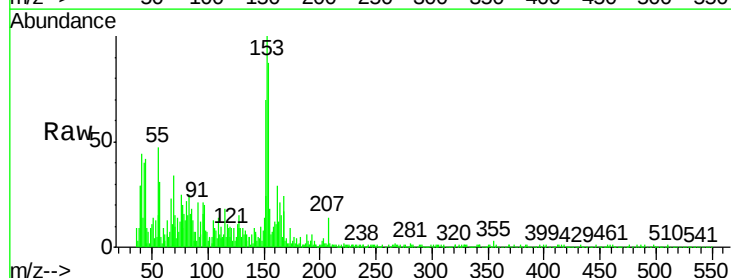
Tgt Ion:184 Resp: 14

Ion Ratio Lower Upper

184 100

63 1460.0 56.2 84.2#

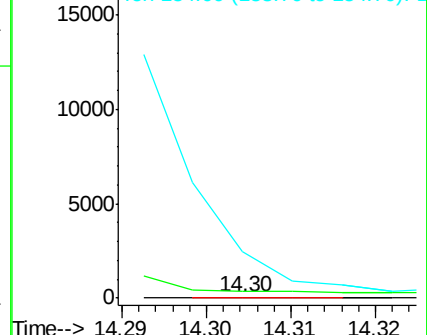
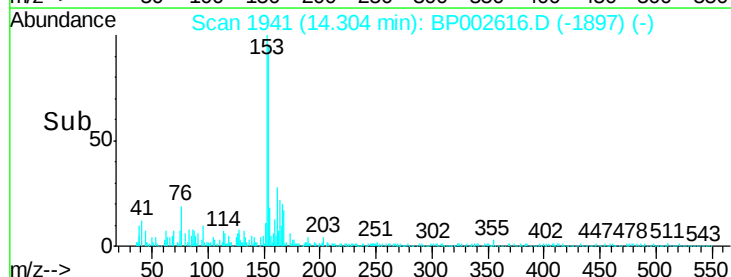
154 9812.0 50.9 76.3#

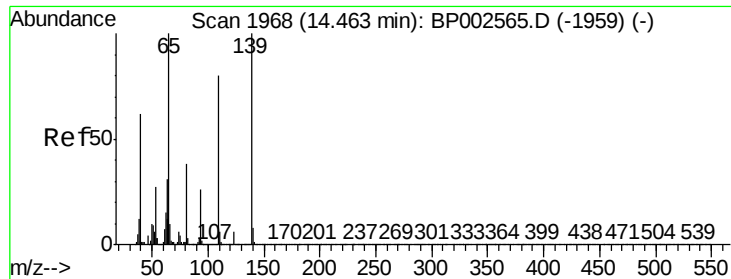


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E





#56

4-Nitrophenol

Concen: 2.486 ng

RT: 14.45 min Scan# 1965

Delta R.T. -0.02 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

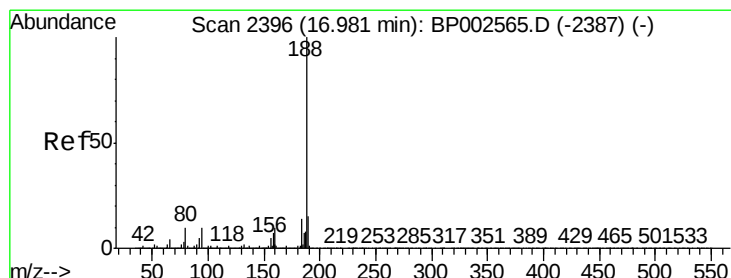
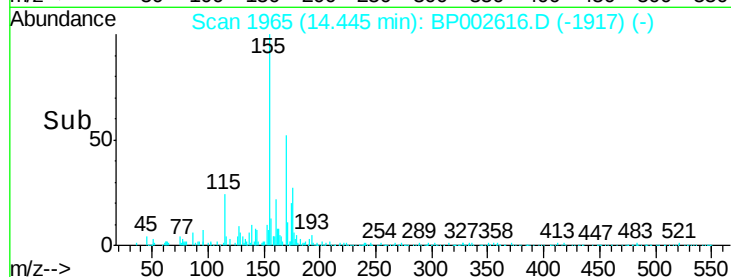
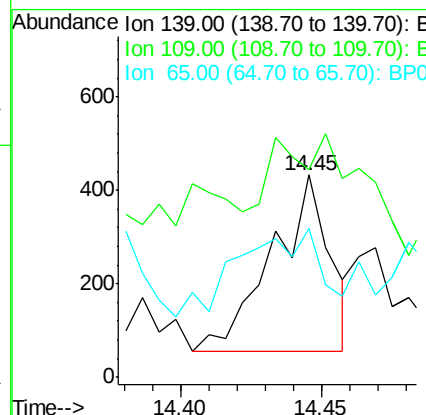
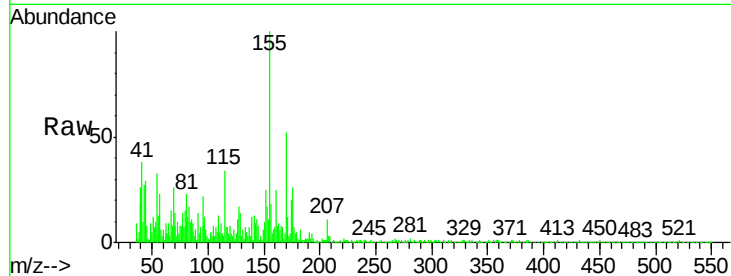
Tot Ion:139 Resp: 536

Ion Ratio Lower Upper

139 100

109 102.5 60.1 100.1#

65 73.4 80.3 120.3#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.98 min Scan# 2396

Delta R.T. -0.00 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

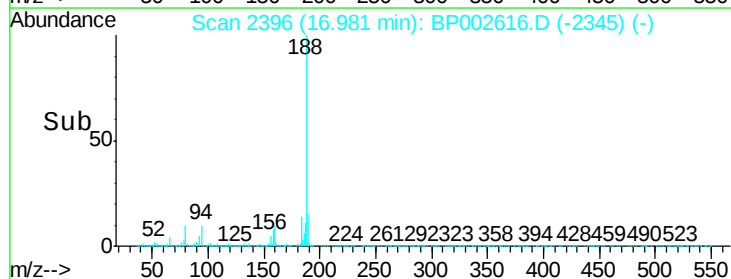
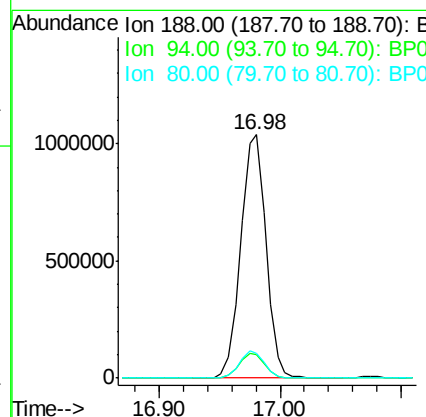
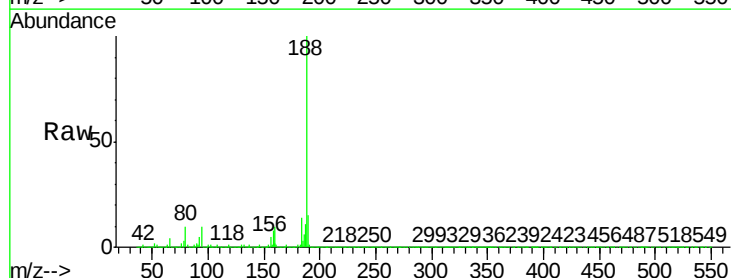
Tgt Ion:188 Resp: 1515020

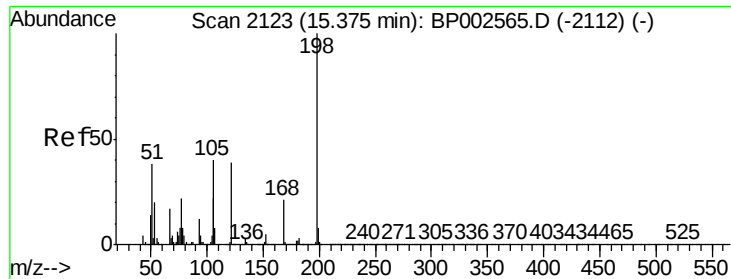
Ion Ratio Lower Upper

188 100

94 9.8 7.8 11.6

80 10.4 8.2 12.4

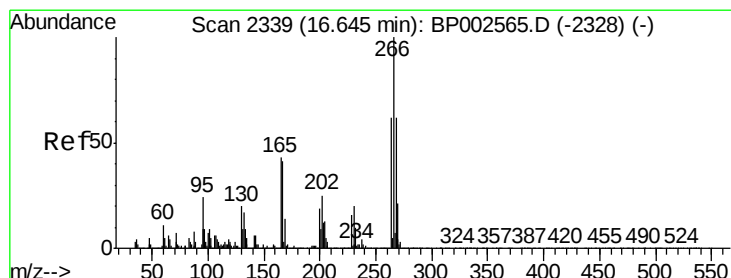
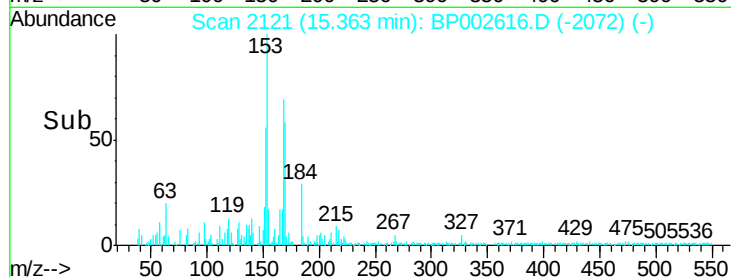
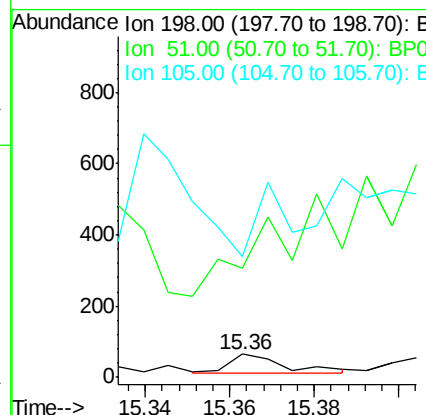
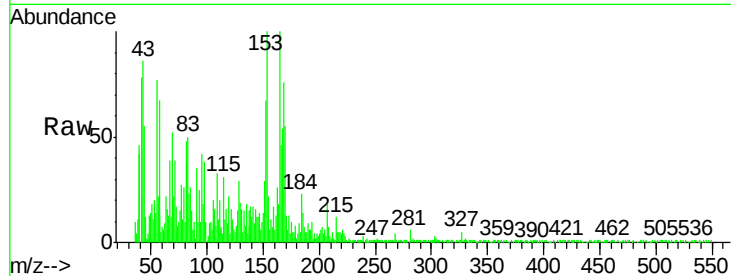




#65
4,6-Dinitro-2-methylphenol
Concen: 2.714 ng
RT: 15.36 min Scan# 2121
Delta R.T. -0.01 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

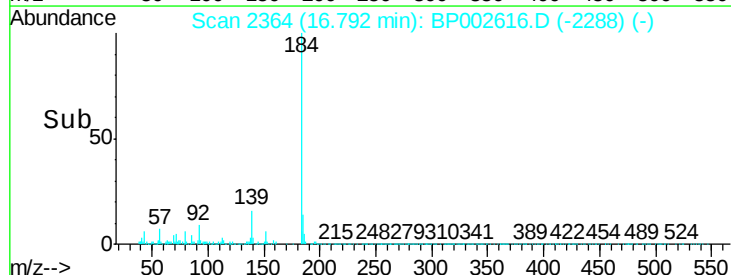
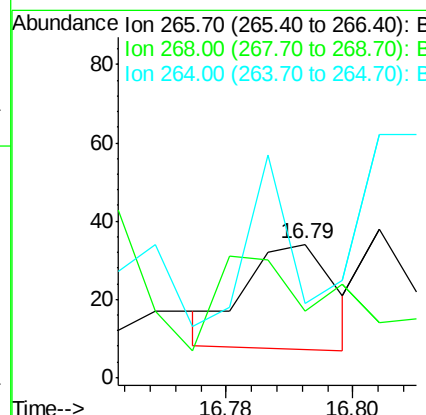
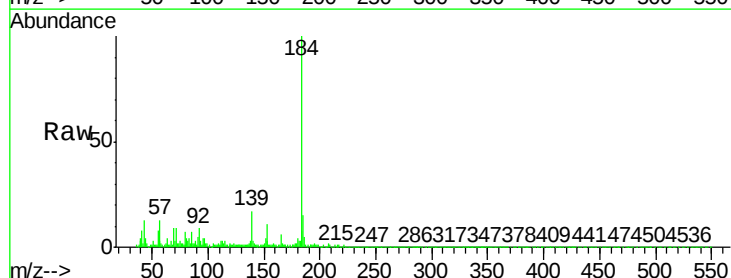
Instrument :
BNA_P
ClientSampleId :
OR-03-062920

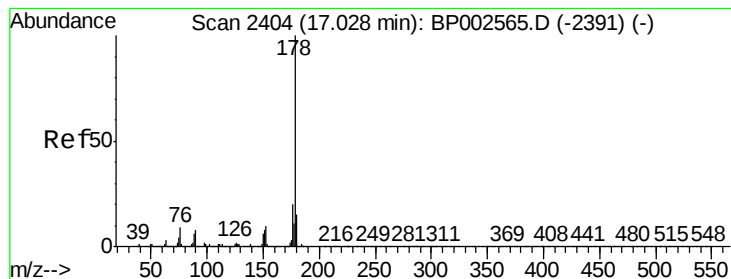
Tot Ion:198 Resp: 48
Ion Ratio Lower Upper
198 100
51 472.3 24.2 64.2#
105 520.0 20.7 60.7#



#70
Pentachlorophenol
Concen: 2.664 ng
RT: 16.79 min Scan# 2364
Delta R.T. 0.15 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

Tgt Ion:266 Resp: 26
Ion Ratio Lower Upper
266 100
268 50.0 49.7 74.5
264 55.9 49.3 73.9





#71

Phenanthrene

Concen: 9.262 ng

RT: 17.02 min Scan# 2403

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

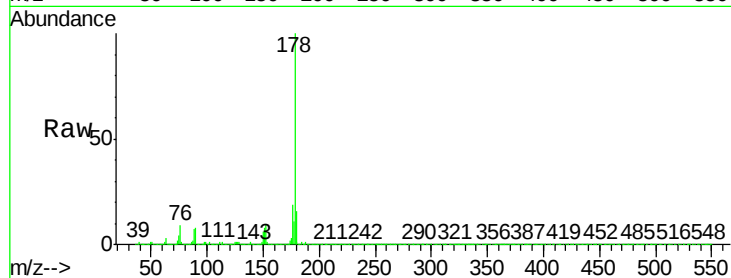
Tot Ion:178 Resp: 754971

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

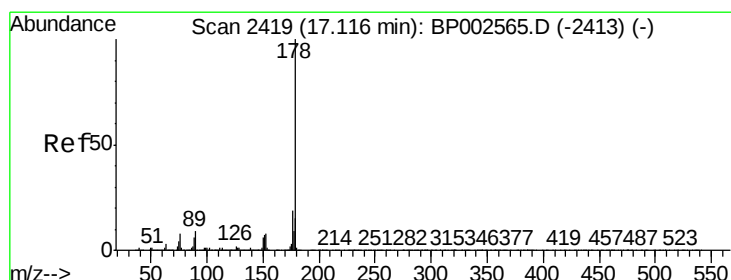
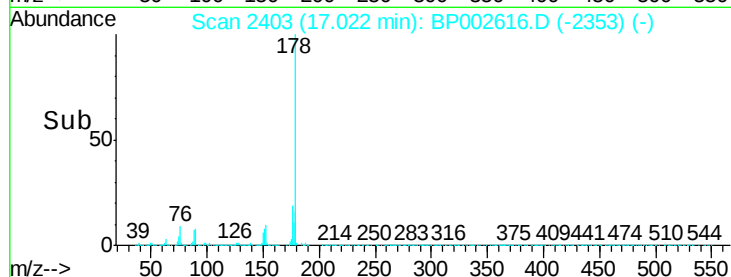
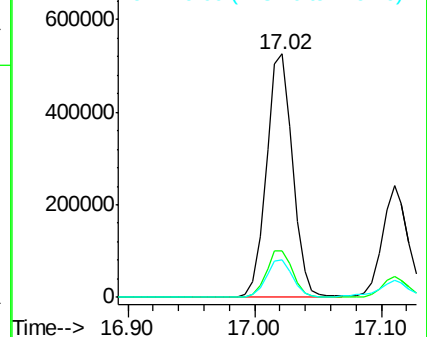
179 15.6 12.1 18.1



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: 4.120 ng

RT: 17.11 min Scan# 2418

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

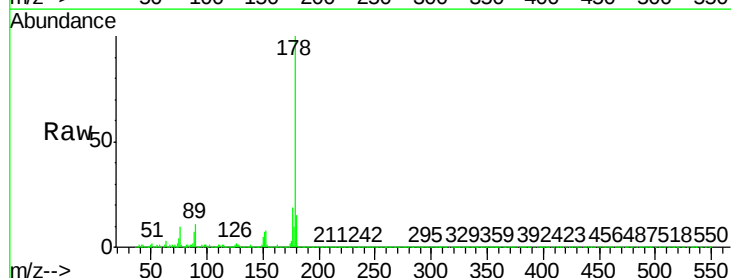
Tgt Ion:178 Resp: 334191

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

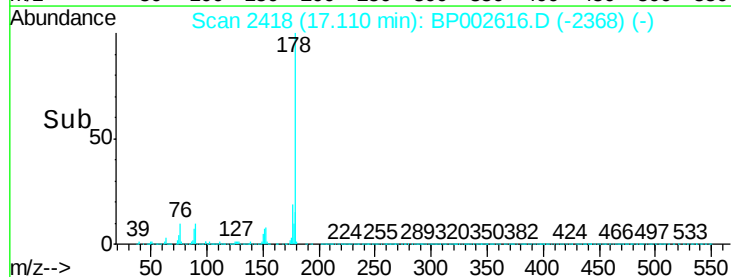
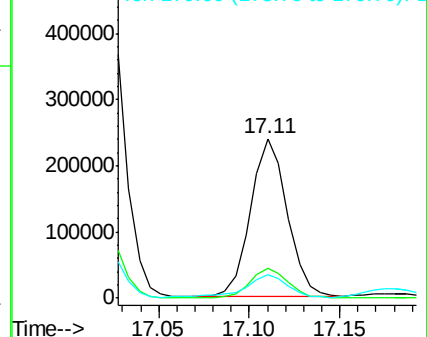
179 15.1 12.2 18.2

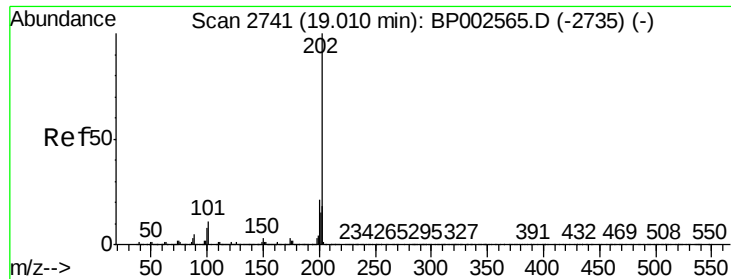


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 18.357 ng

RT: 19.00 min Scan# 2740

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

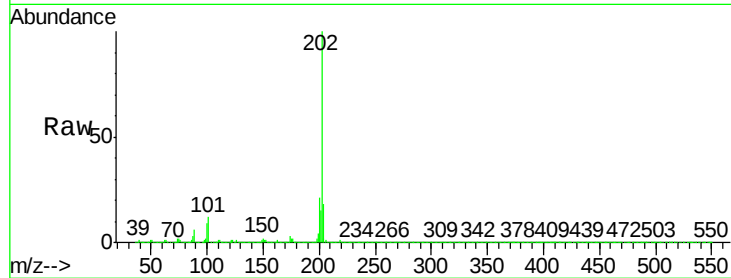
BNA_P

ClientSampleId :

OR-03-062920

Tot Ion:202 Resp: 1811264

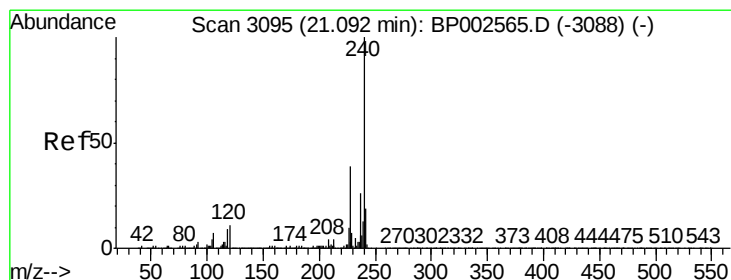
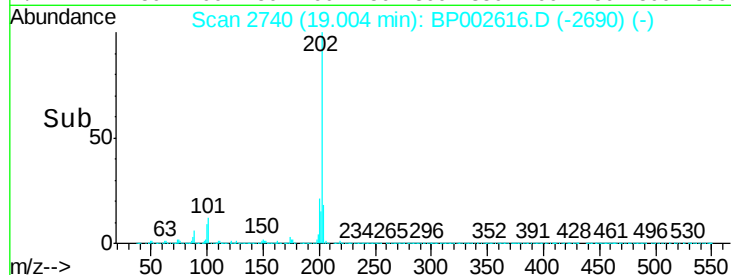
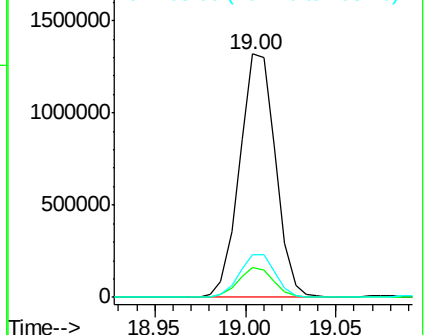
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	30.6
203	17.7	0.0	37.7



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: 21.09 min Scan# 3094

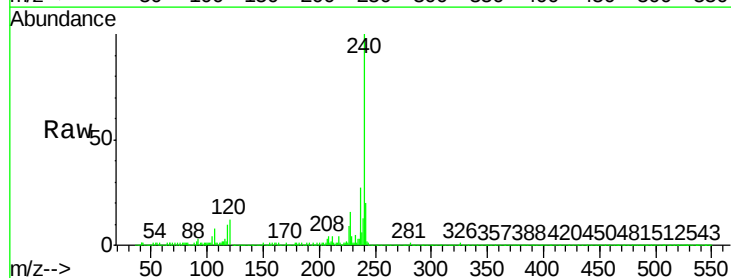
Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Tgt Ion:240 Resp: 1148915

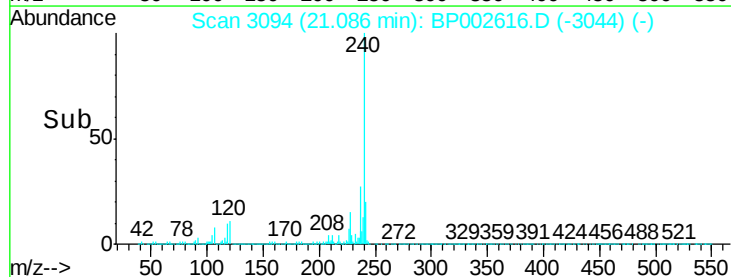
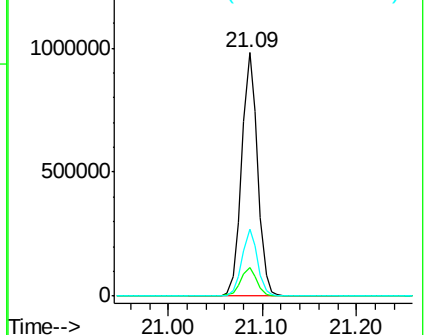
Ion	Ratio	Lower	Upper
240	100		
120	11.6	8.6	13.0
236	27.3	20.8	31.2

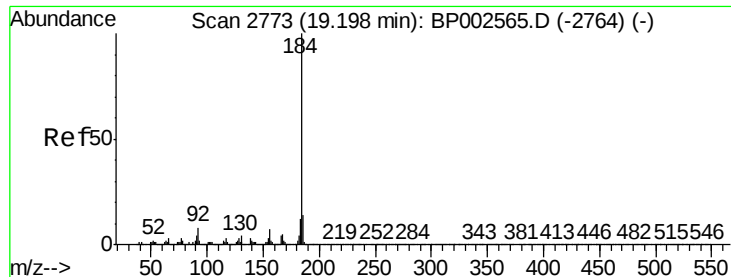


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 3.760 ng

RT: 19.21 min Scan# 2775

Delta R.T. 0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

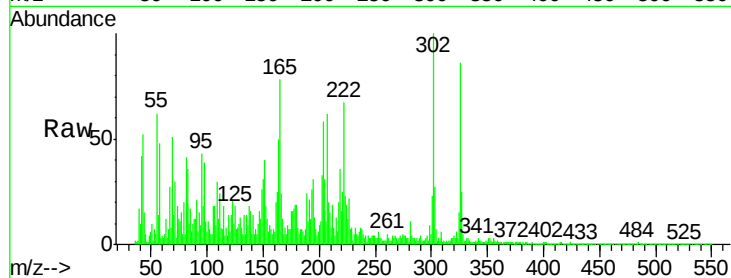
Tot Ion:184 Resp: 226

Ion Ratio Lower Upper

184 100

185 84.8 11.4 17.2#

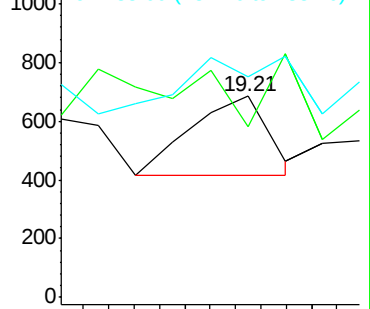
183 109.8 9.2 13.8#



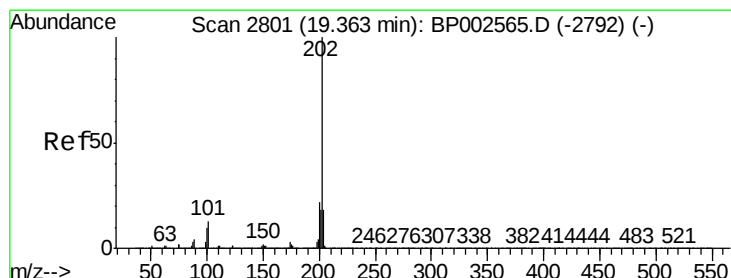
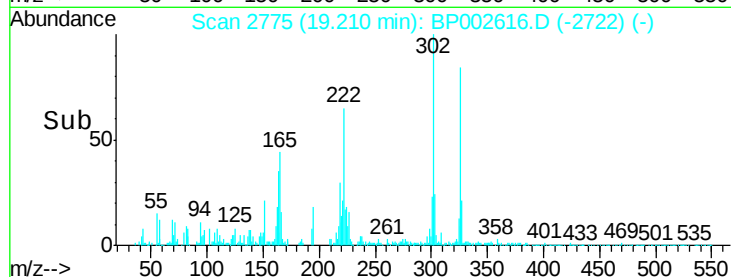
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



Time-->



#78

Pyrene

Concen: 22.025 ng

RT: 19.36 min Scan# 2800

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

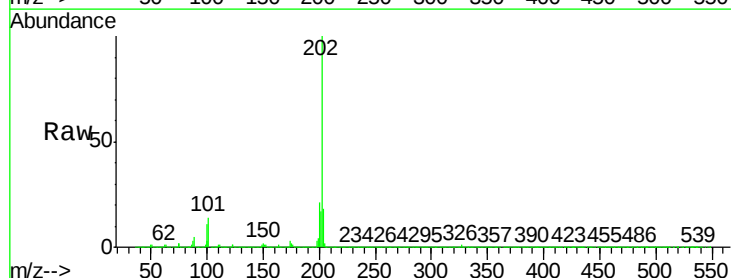
Tgt Ion:202 Resp: 1722432

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

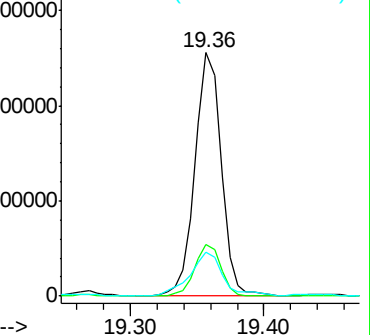
203 17.8 14.4 21.6



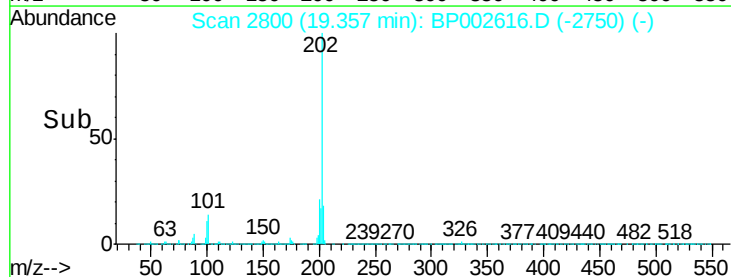
Abundance Ion 202.00 (201.70 to 202.70): E

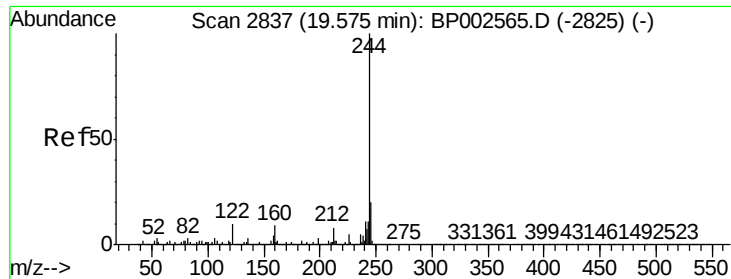
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#79

Terphenyl-d14

Concen: 17.447 ng

RT: 19.57 min Scan# 2836

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

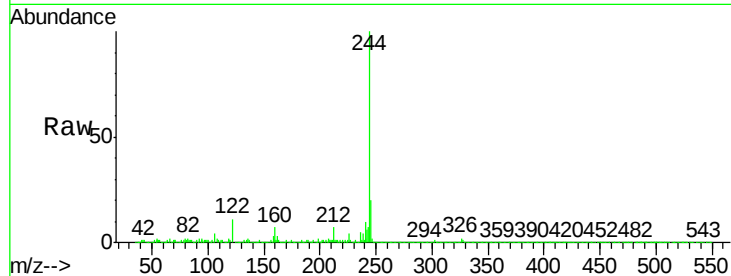
Tot Ion:244 Resp: 928660

Ion Ratio Lower Upper

244 100

212 6.9 6.5 9.7

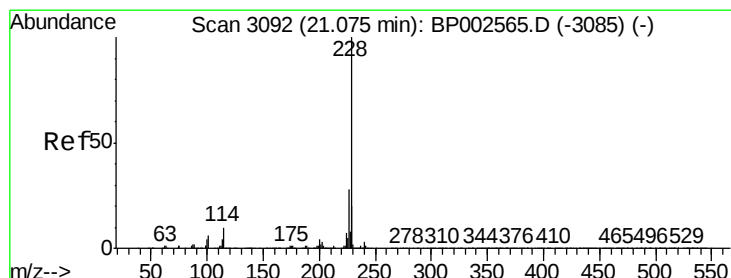
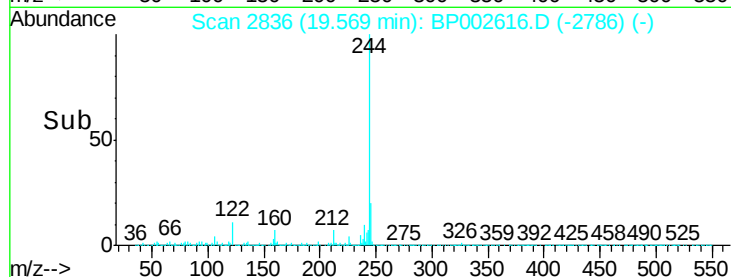
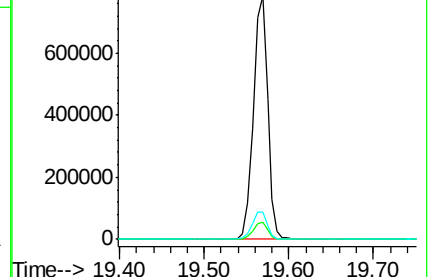
122 11.1 7.9 11.9



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: 12.010 ng

RT: 21.07 min Scan# 3091

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

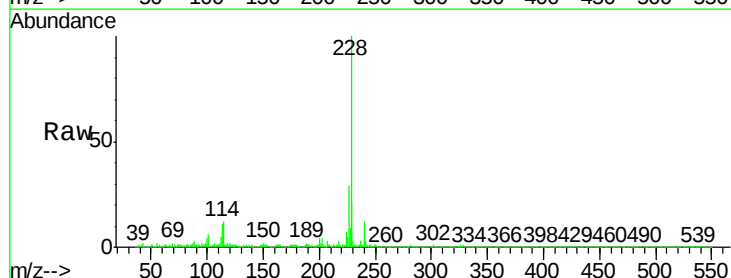
Tgt Ion:228 Resp: 902123

Ion Ratio Lower Upper

228 100

226 29.0 22.5 33.7

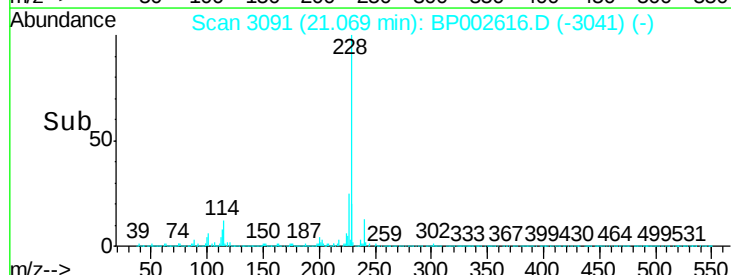
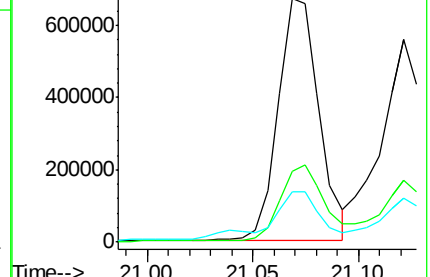
229 20.5 16.4 24.6

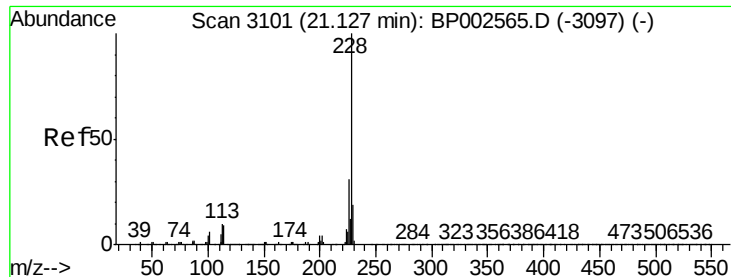


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 10.800 ng

RT: 21.12 min Scan# 3100

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

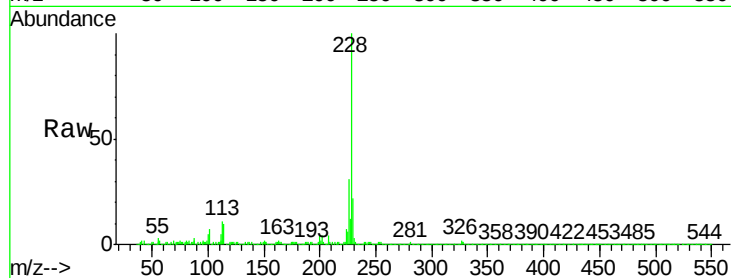
Tot Ion:228 Resp: 777918

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	22.0	15.6	23.4

228 100

226 30.6 24.6 37.0

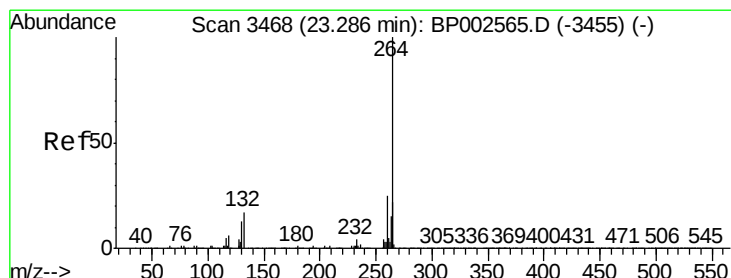
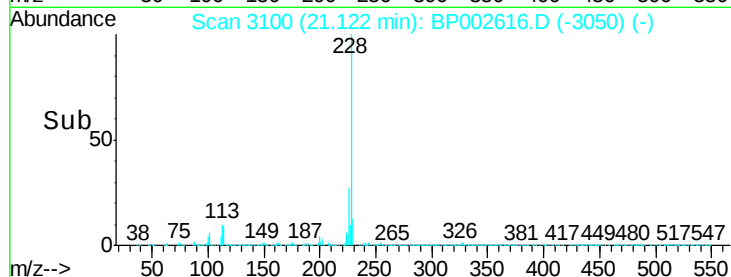
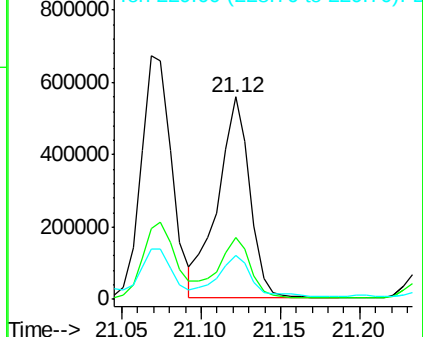
229 22.0 15.6 23.4



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: 23.28 min Scan# 3467

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

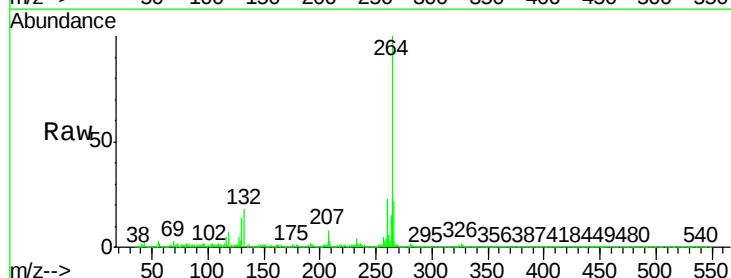
Tgt Ion:264 Resp: 1004078

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.7	29.5
265	21.7	17.6	26.4

264 100

260 23.4 19.7 29.5

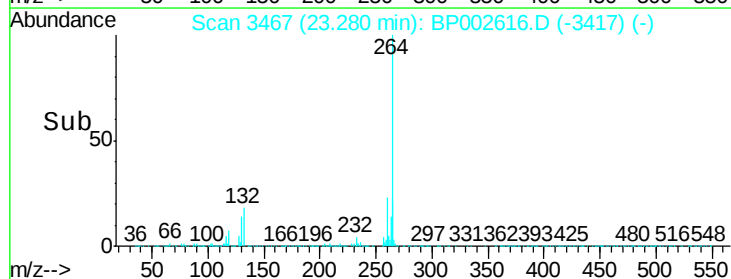
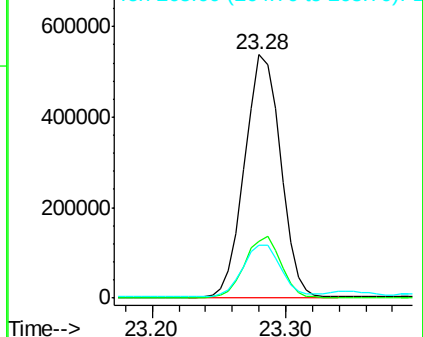
265 21.7 17.6 26.4

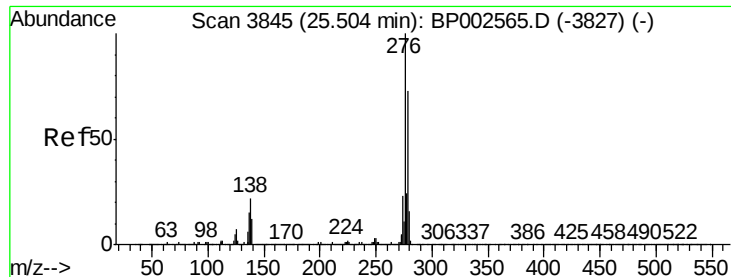


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

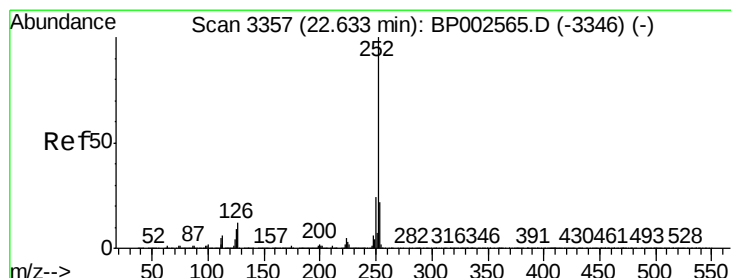
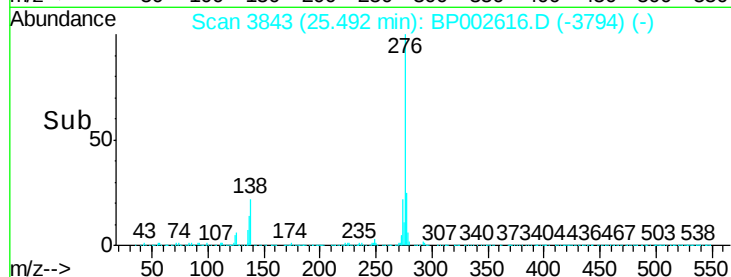
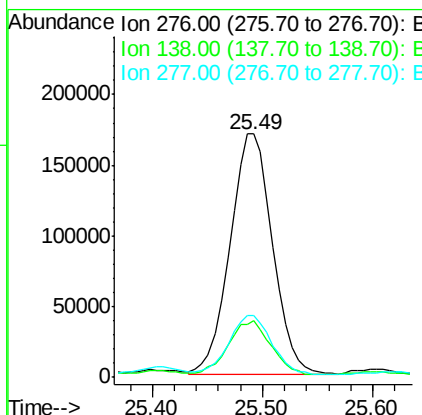
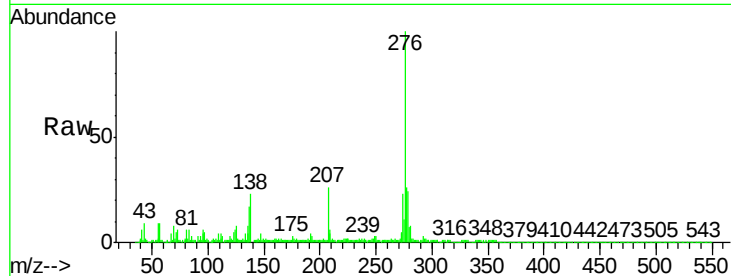




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 6.302 ng
 RT: 25.49 min Scan# 3843
 Delta R.T. -0.01 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

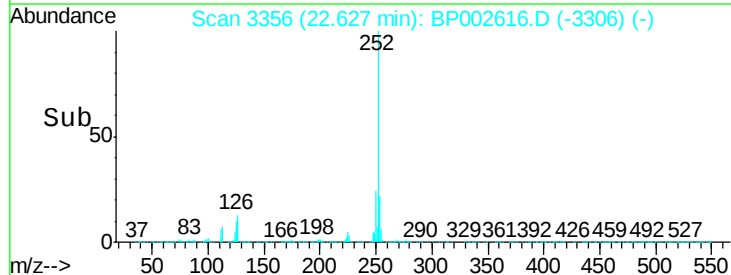
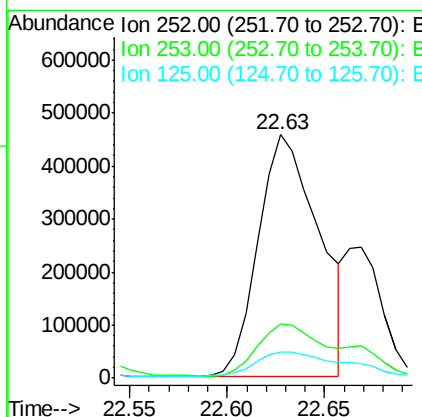
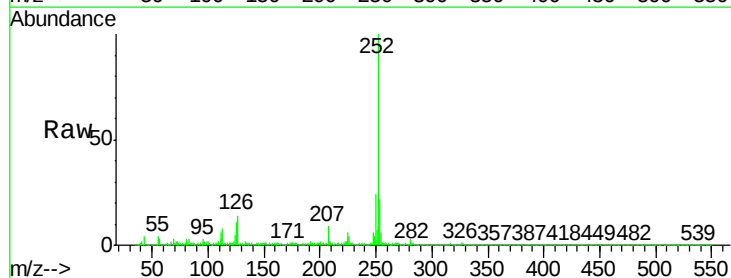
Instrument :
 BNA_P
 ClientSampleId :
 OR-03-062920

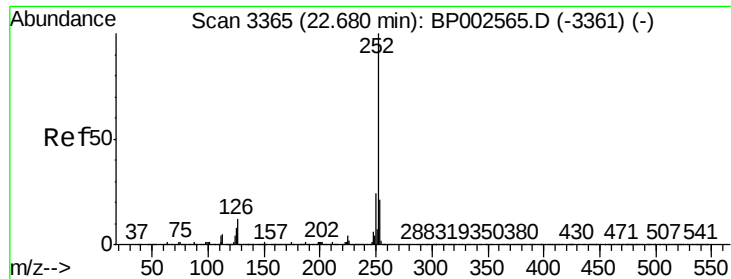
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.7	18.6	27.8
277	25.3	20.1	30.1



#88
 Benzo(b)fluoranthene
 Concen: 15.380 ng
 RT: 22.63 min Scan# 3356
 Delta R.T. -0.01 min
 Lab File: BP002616.D
 Acq: 01 Jul 2020 21:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.9	7.4	11.2





#89

Benzo(k)fluoranthene

Concen: 16.486 ng

RT: 22.63 min Scan# 3356

Delta R.T. -0.05 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

Instrument :

BNA_P

ClientSampleId :

OR-03-062920

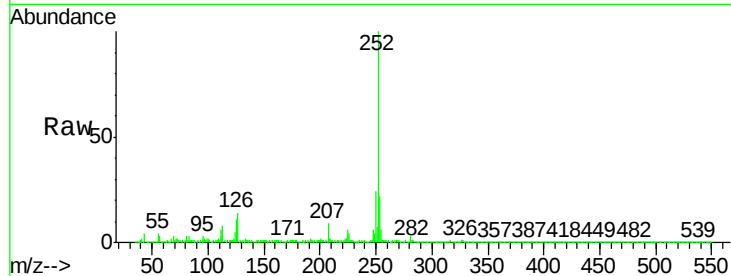
Tot Ion:252 Resp: 985391

Ion Ratio Lower Upper

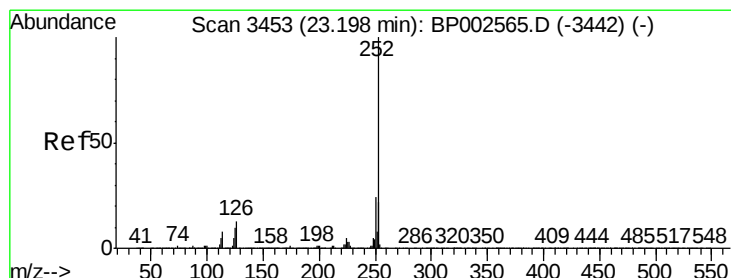
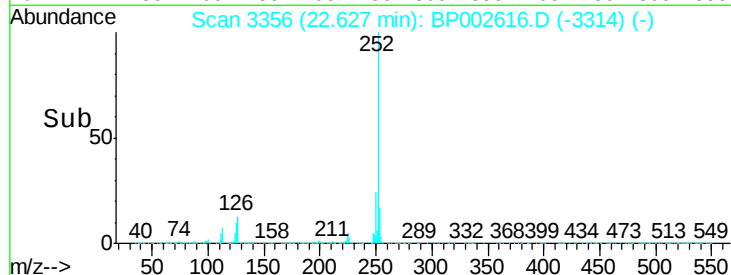
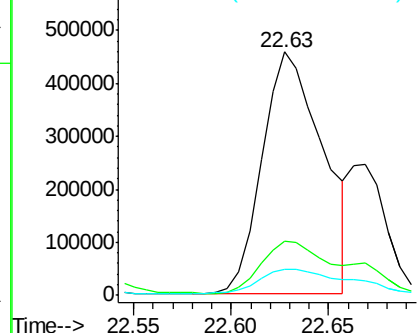
252 100

253 22.5 17.4 26.0

125 10.9 6.9 10.3#



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



#90

Benzo(a)pyrene

Concen: 12.308 ng

RT: 23.19 min Scan# 3451

Delta R.T. -0.01 min

Lab File: BP002616.D

Acq: 01 Jul 2020 21:54

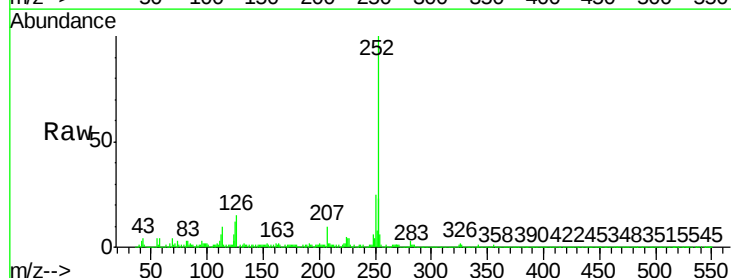
Tgt Ion:252 Resp: 723623

Ion Ratio Lower Upper

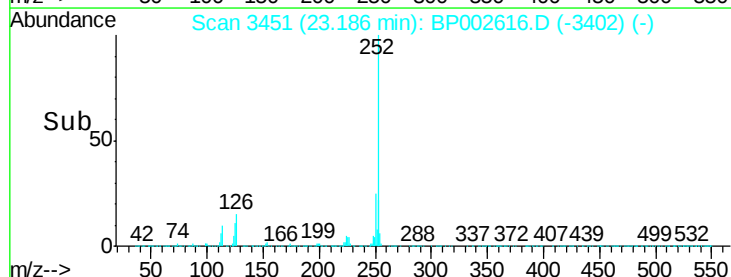
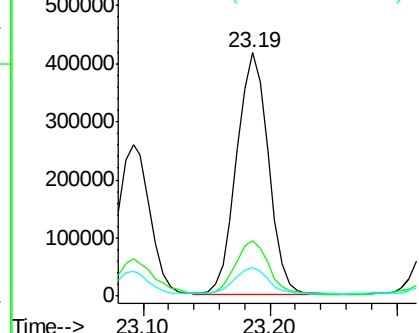
252 100

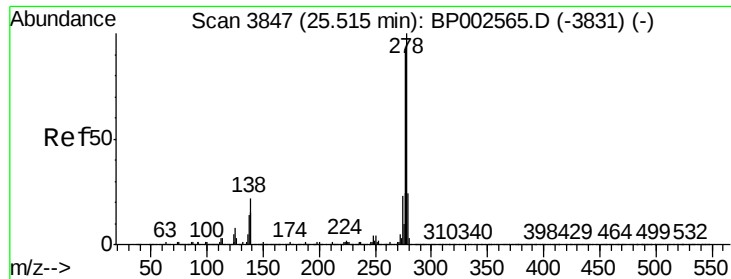
253 22.6 17.8 26.6

125 12.0 7.8 11.8#



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

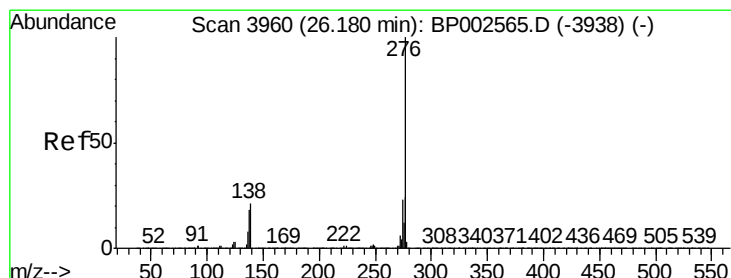
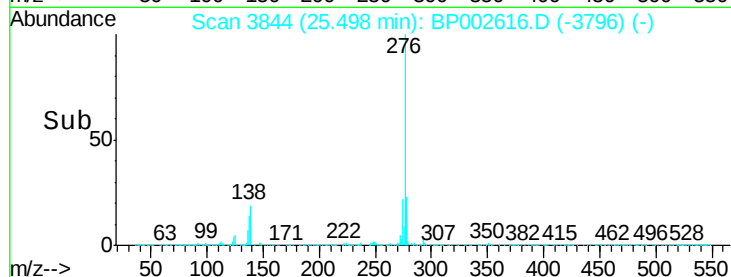
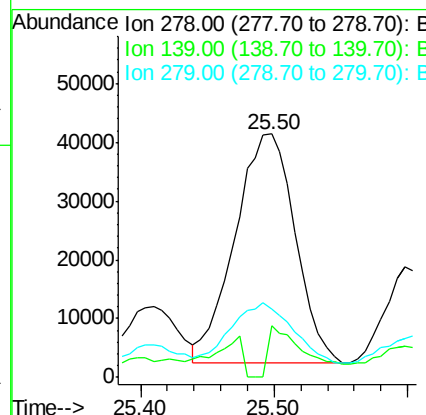
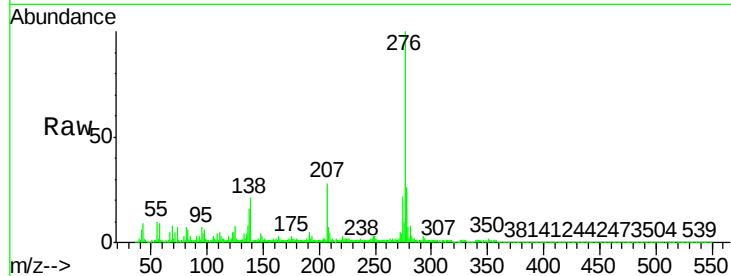




#91
Dibenzo(a,h)anthracene
Concen: 2.073 ng
RT: 25.50 min Scan# 3844
Delta R.T. -0.02 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

Instrument :
BNA_P
ClientSampled :
OR-03-062920

Tot Ion:278 Resp: 122462
Ion Ratio Lower Upper
278 100
139 21.4 12.2 18.2#
279 28.1 19.0 28.6



#92
Benzo(g,h,i)perylene
Concen: 7.659 ng
RT: 26.16 min Scan# 3957
Delta R.T. -0.02 min
Lab File: BP002616.D
Acq: 01 Jul 2020 21:54

Tgt Ion:276 Resp: 452518
Ion Ratio Lower Upper
276 100
277 23.7 19.3 28.9
138 23.2 16.9 25.3

