

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP011720\
 Data File : BP001667.D
 Acq On : 17 Jan 2020 20:42
 Operator : JU
 Sample : L1008-08 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :

Quant Time: Jan 18 02:35:15 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 14 21:52:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	58680	20.00	ng	0.00
21) Naphthalene-d8	10.41	136	214268	20.00	ng	0.00
39) Acenaphthene-d10	14.29	164	125483	20.00	ng	0.00
64) Phenanthrene-d10	17.05	188	225630	20.00	ng	0.00
76) Chrysene-d12	21.15	240	172970	20.00	ng	0.00
87) Perylene-d12	23.39	264	185559	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.26	112	172597	57.62	ng	0.00
7) Phenol-d6	6.83	99	254405	53.14	ng	0.00
23) Nitrobenzene-d5	8.78	82	177792	36.26	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	66150	34.63	ng	0.00
45) 2-Fluorobiphenyl	12.90	172	326281	38.23	ng	0.00
79) Terphenyl-d14	19.63	244	328082	34.69	ng	0.00

Target Compounds

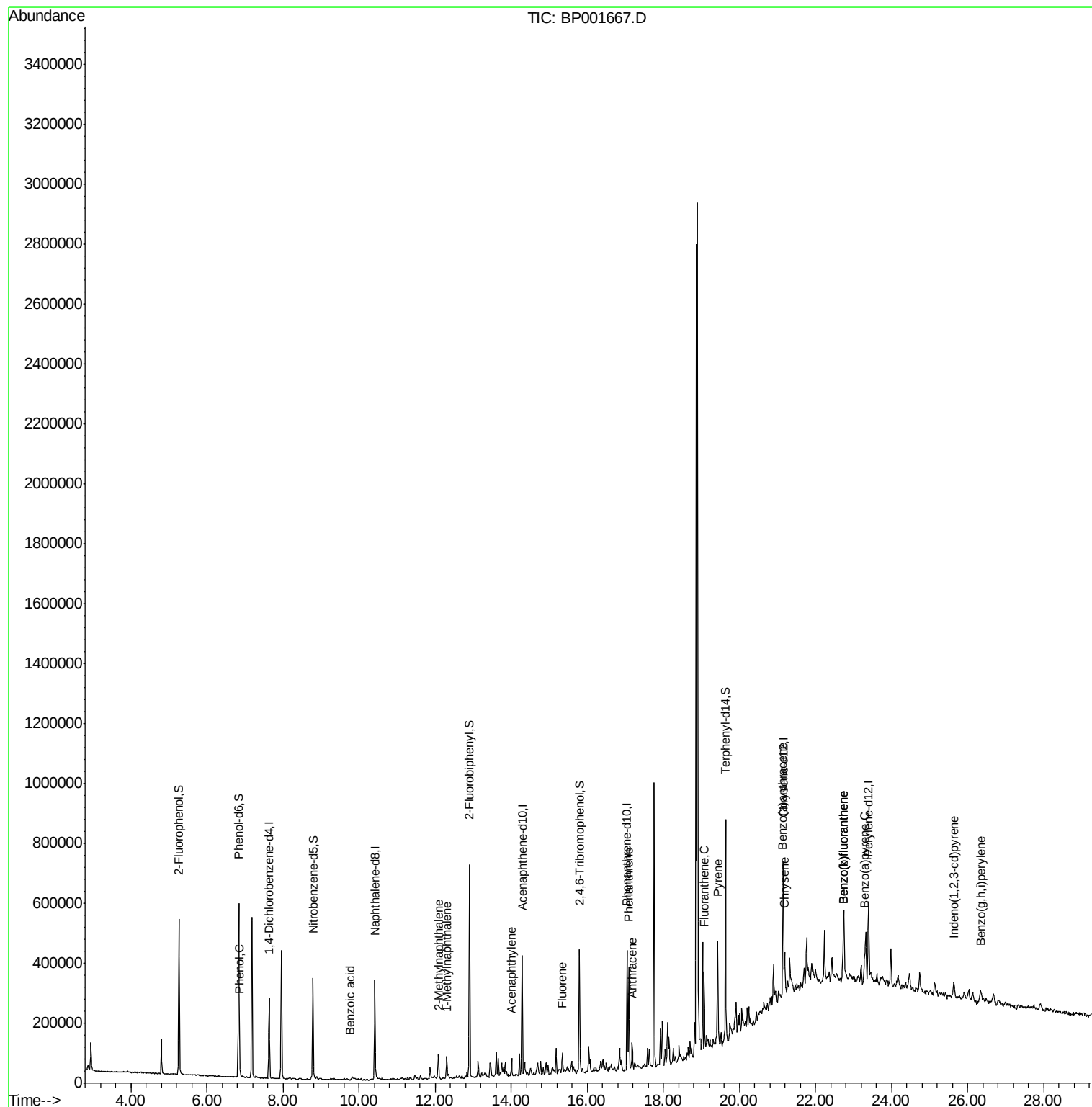
						Qvalue
10) Phenol	6.86	94	10265	2.073	ng	94
32) Benzoic acid	9.75	122	13	4.708	ng	# 13
37) 2-Methylnaphthalene	12.08	142	32469	3.603	ng	97
38) 1-Methylnaphthalene	12.30	142	29775	3.433	ng	95
49) Acenaphthylene	14.00	152	27226	2.362	ng	99
58) Fluorene	15.34	166	26519	2.715	ng	97
71) Phenanthrene	17.09	178	189633	15.454	ng	99
72) Anthracene	17.18	178	51817	4.338	ng	98
75) Fluoranthene	19.07	202	141052	8.736	ng	98
78) Pyrene	19.42	202	205707	16.190	ng	98
81) Benzo(a)anthracene	21.13	228	81174	6.739	ng	# 90
83) Chrysene	21.19	228	79976	6.812	ng	# 92
86) Indeno(1,2,3-cd)pyrene	25.65	276	32986	2.400	ng	# 97
88) Benzo(b)fluoranthene	22.72	252	94992	8.124	ng	# 85
89) Benzo(k)fluoranthene	22.72	252	94992	8.332	ng	# 86
90) Benzo(a)pyrene	23.29	252	59341	5.345	ng	# 92
92) Benzo(a,h,i)perylene	26.33	276	37250	3.271	ng	# 88

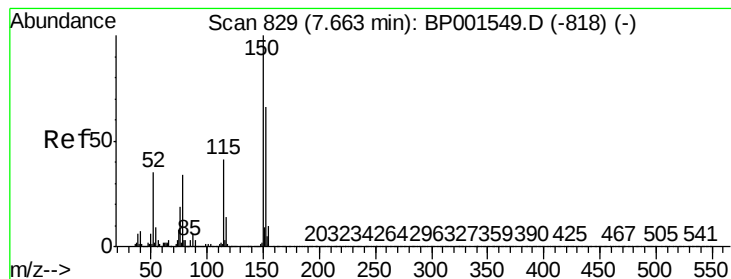
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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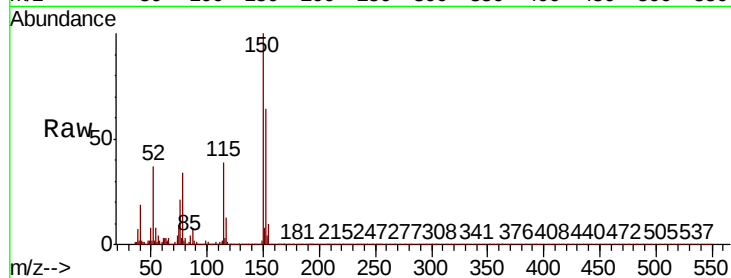


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.63 min Scan# 824
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Instrument :
BNA_P
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.0	122.0	183.0
115	62.0	50.7	76.1

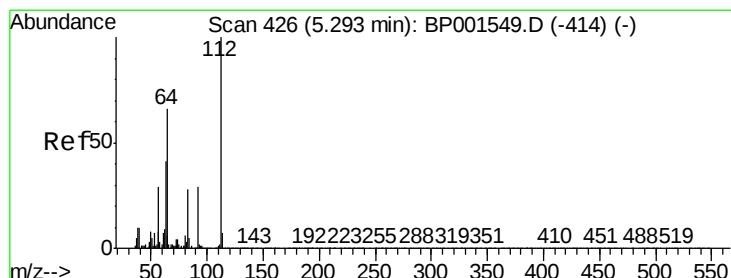
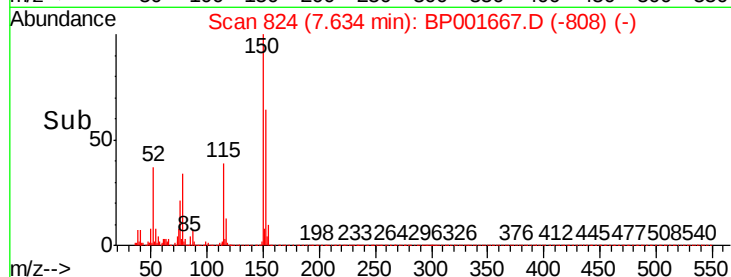
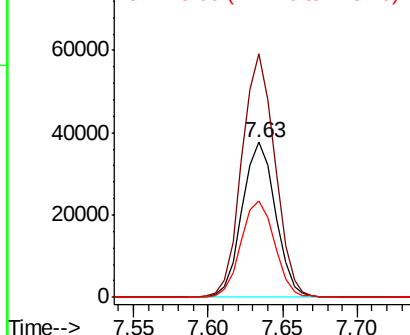


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

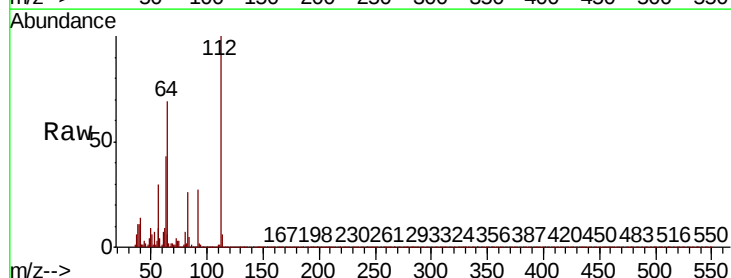
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 57.618 ng
RT: 5.26 min Scan# 421
Delta R.T. 0.00 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.7	52.8	79.2
63	42.6	33.1	49.7

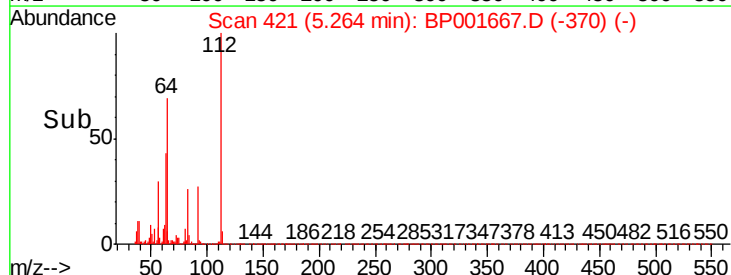
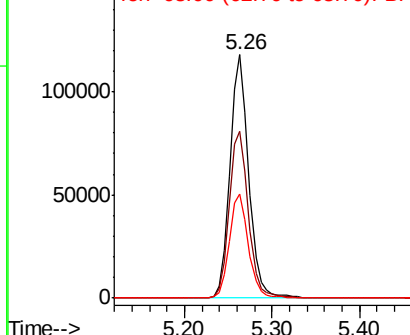


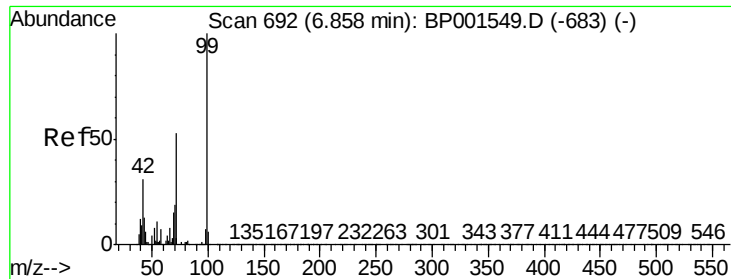
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BP0

Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 53.140 ng

RT: 6.83 min Scan# 688

Delta R.T. 0.00 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

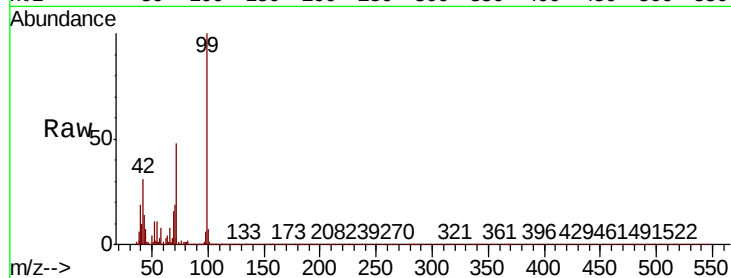
Tot Ion: 99 Resp: 254405

Ion Ratio Lower Upper

99 100

42 31.3 24.5 36.7

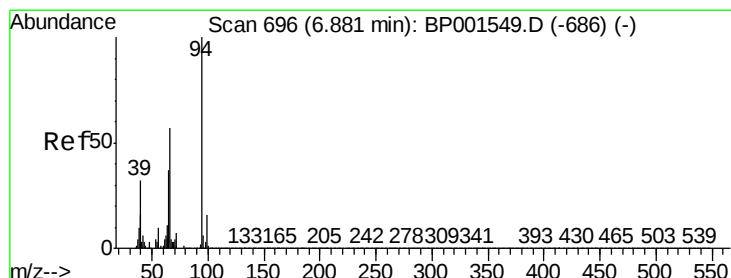
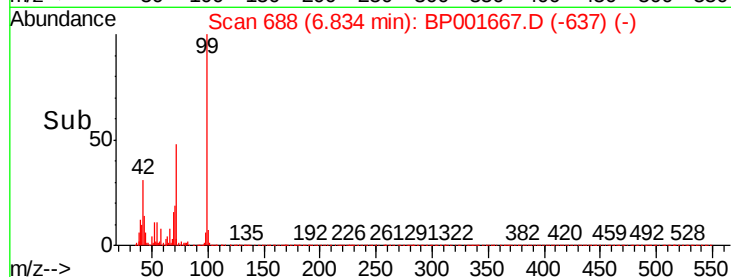
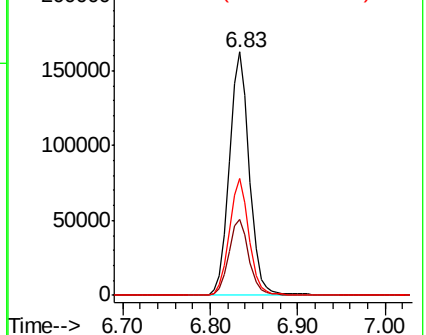
71 47.9 42.4 63.6



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



#10

Phenol

Concen: 2.073 ng

RT: 6.86 min Scan# 692

Delta R.T. 0.00 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

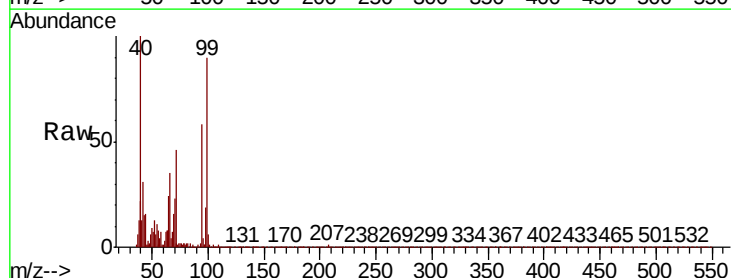
Tgt Ion: 94 Resp: 10265

Ion Ratio Lower Upper

94 100

65 41.6 17.5 57.5

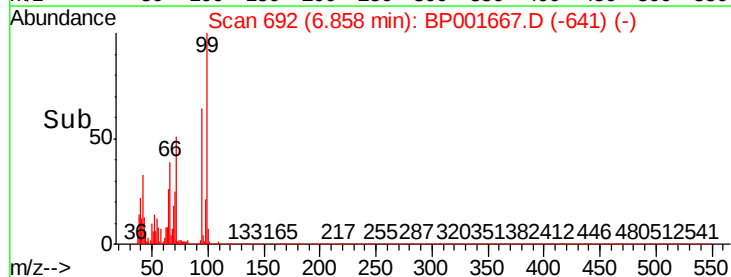
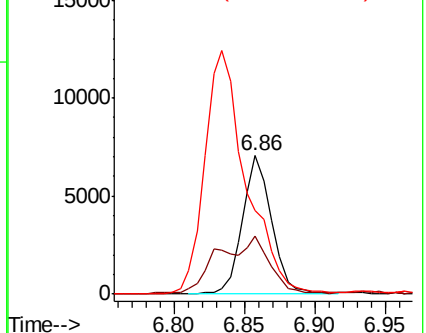
66 60.3 36.7 76.7

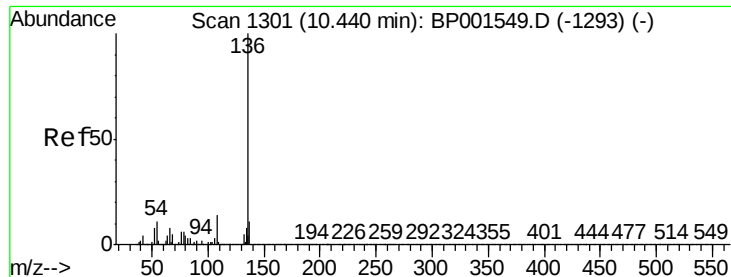


Abundance Ion 94.00 (93.70 to 94.70): BP0

Ion 65.00 (64.70 to 65.70): BP0

Ion 66.00 (65.70 to 66.70): BP0

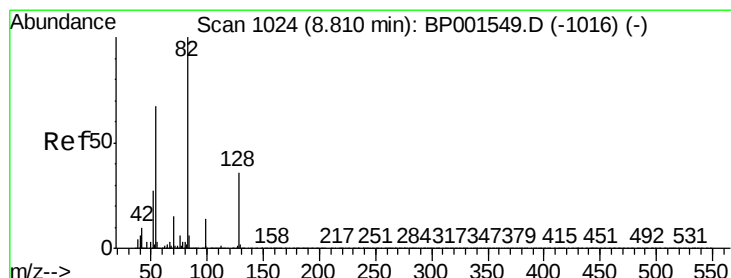
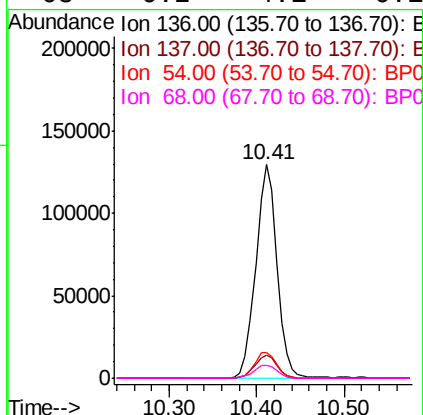
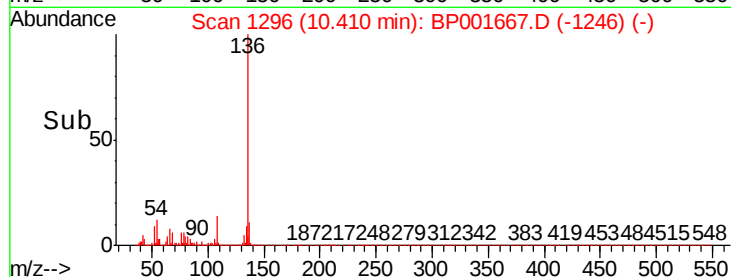
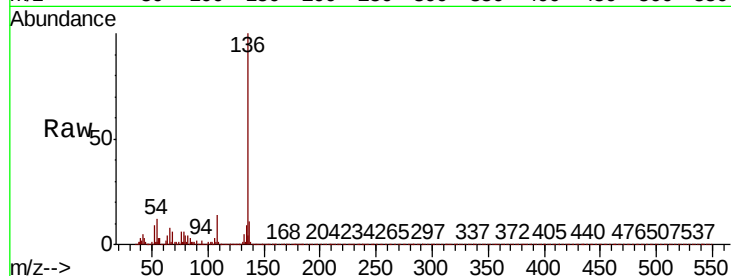




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.41 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

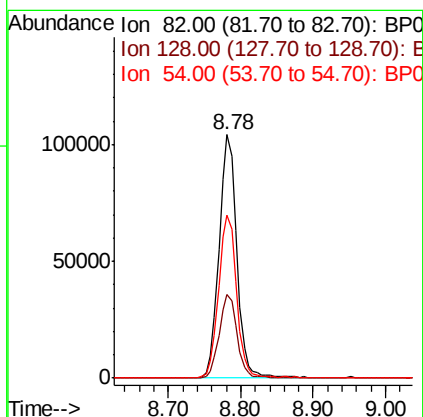
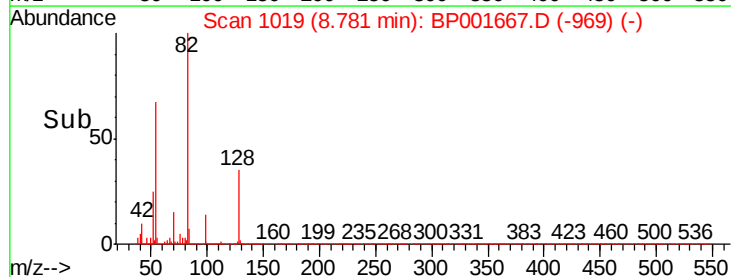
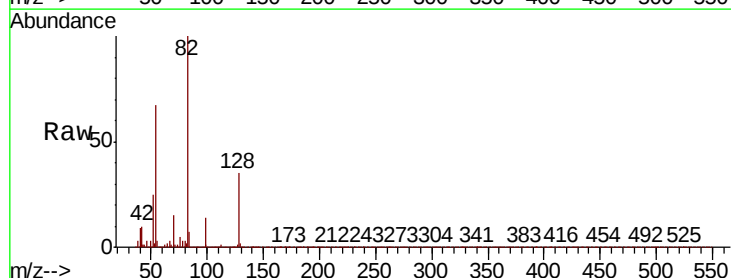
Instrument :
BNA_P
ClientSampleId :

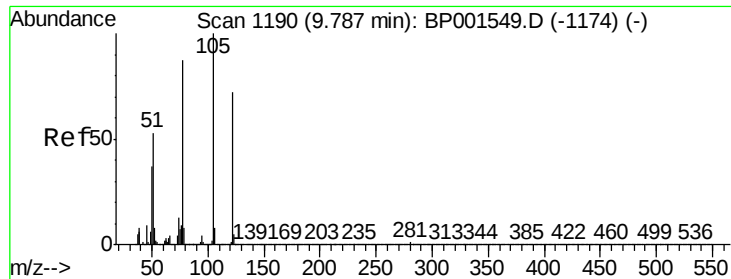
Tot Ion:	136	Resp:	214268
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	12.2	9.2	13.8
68	6.2	4.1	6.1#



#23
Nitrobenzene-d5
Concen: 36.259 ng
RT: 8.78 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion:	82	Resp:	177792
Ion	Ratio	Lower	Upper
82	100		
128	34.6	28.4	42.6
54	66.9	53.4	80.2

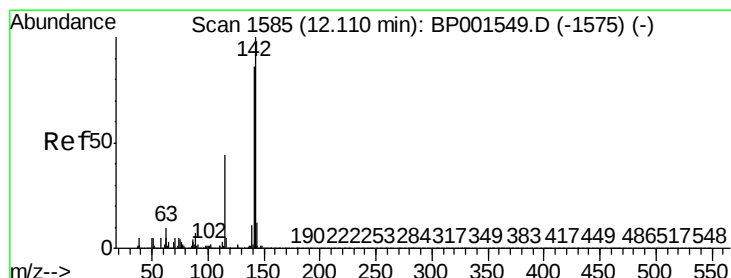
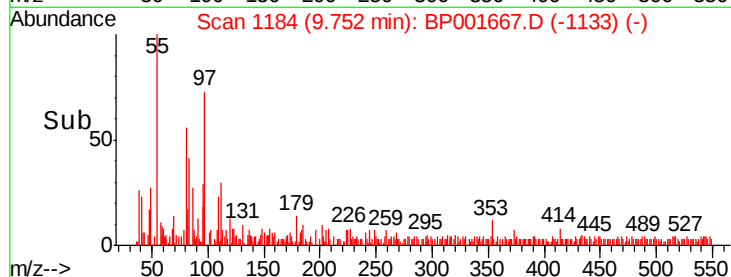
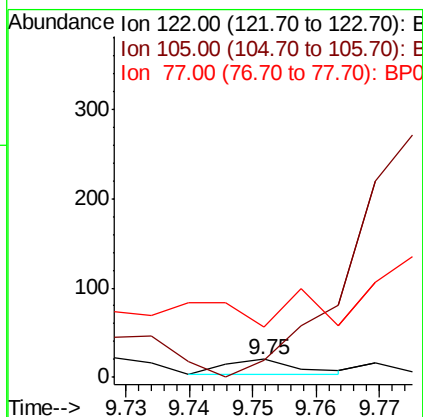
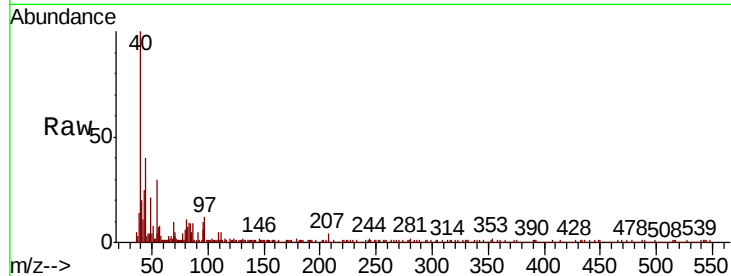




#32
Benzoic acid
Concen: 4.708 ng
RT: 9.75 min Scan# 1184
Delta R.T. 0.00 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

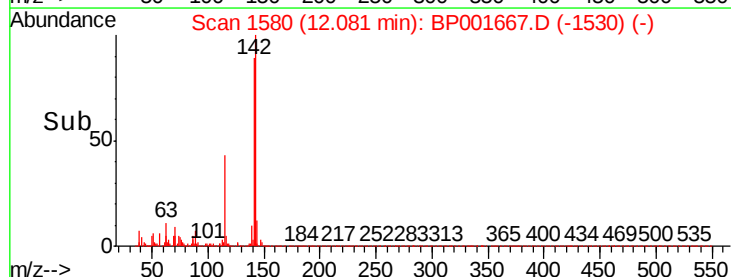
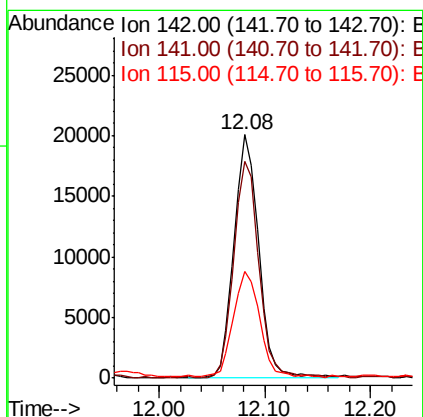
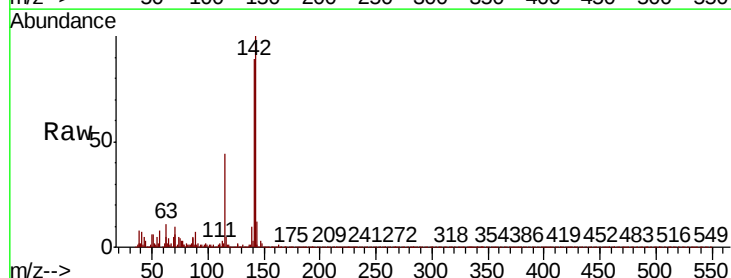
Instrument :
BNA_P
ClientSampleId :

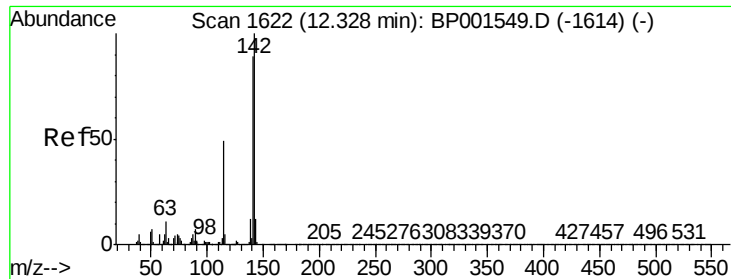
Tot Ion	Ratio	Lower	Upper
122	100		
105	95.0	119.5	159.5#
77	285.0	102.8	142.8#



#37
2-Methylnaphthalene
Concen: 3.603 ng
RT: 12.08 min Scan# 1580
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.2	68.4	102.6
115	43.8	35.1	52.7

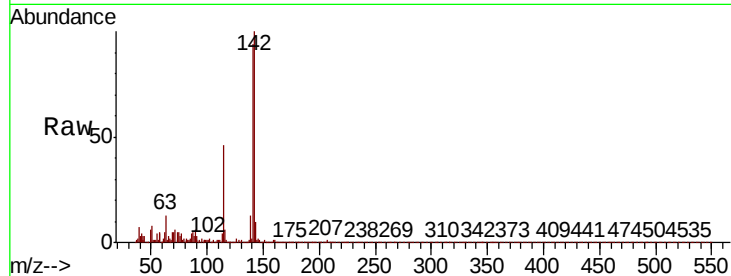




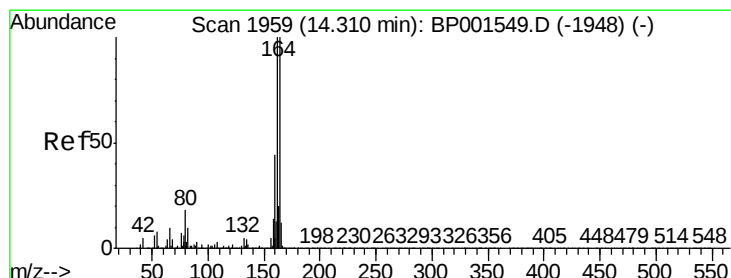
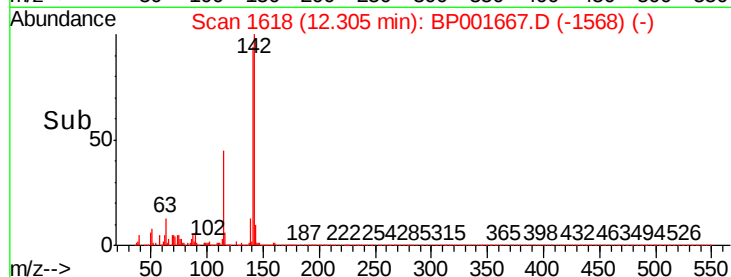
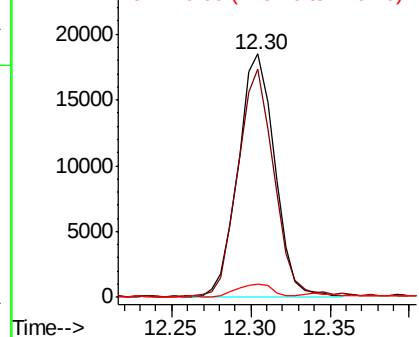
#38
1-Methylnaphthalene
Concen: 3.433 ng
RT: 12.30 min Scan# 1618
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Instrument :
BNA_P
ClientSampleId :

Tot Ion:142 Resp: 29775
Ion Ratio Lower Upper
142 100
141 93.6 70.9 106.3
116 5.7 4.1 6.1

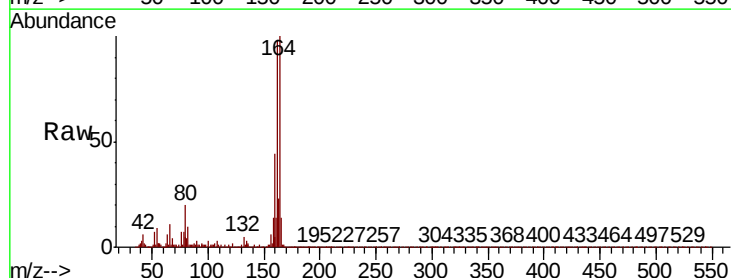


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

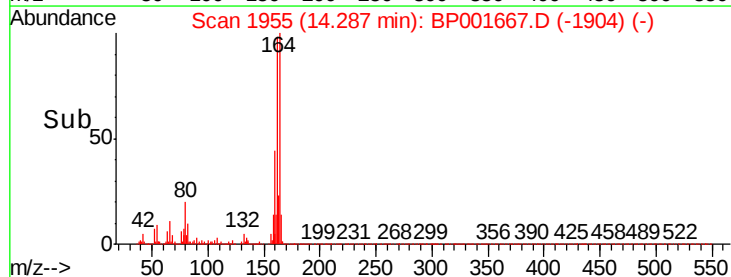
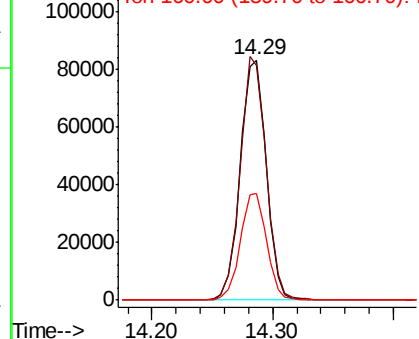


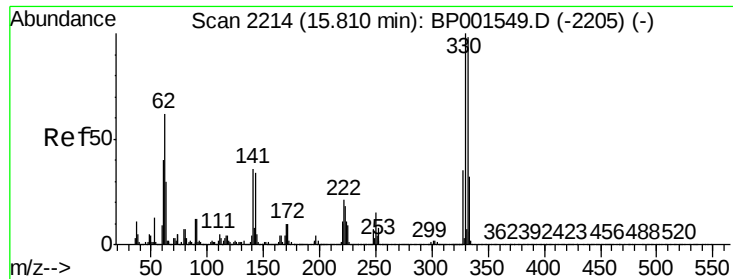
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.29 min Scan# 1955
Delta R.T. 0.00 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion:164 Resp: 125483
Ion Ratio Lower Upper
164 100
162 97.5 79.8 119.6
160 44.2 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

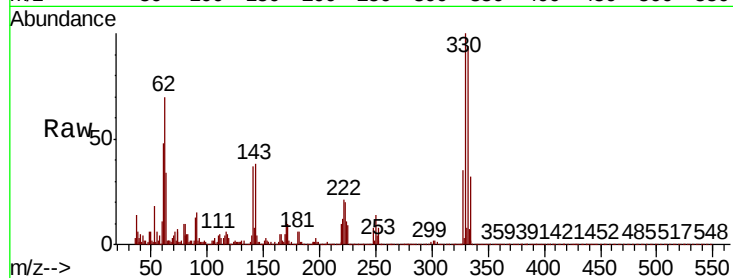




#42
 2,4,6-Tribromophenol
 Concen: 34.632 ng
 RT: 15.79 min Scan# 2210
 Delta R.T. -0.01 min
 Lab File: BP001667.D
 Acq: 17 Jan 2020 20:42

Instrument :
 BNA_P
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.8	116.6
141	37.2	28.7	43.1

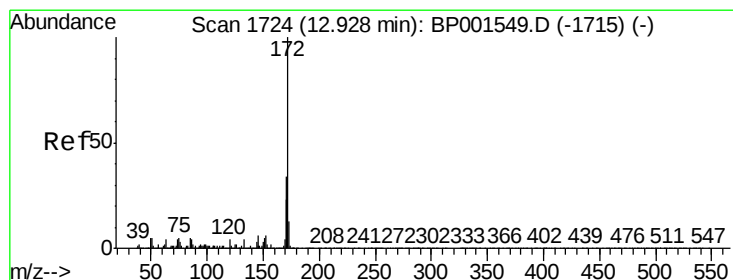
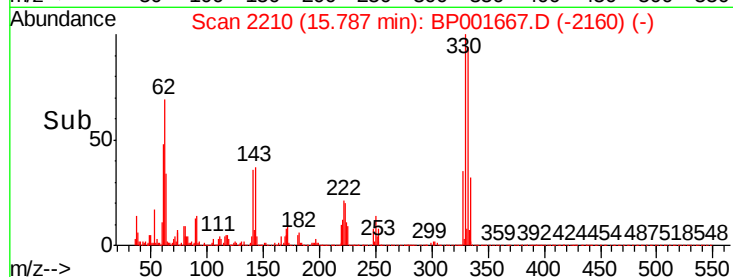
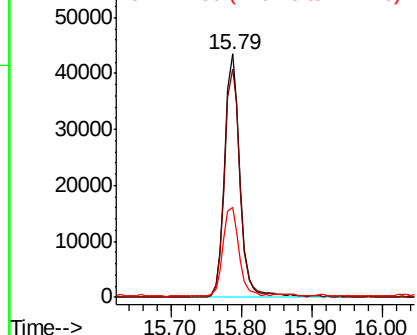


Abundance

Ion 329.80 (329.50 to 330.50): E

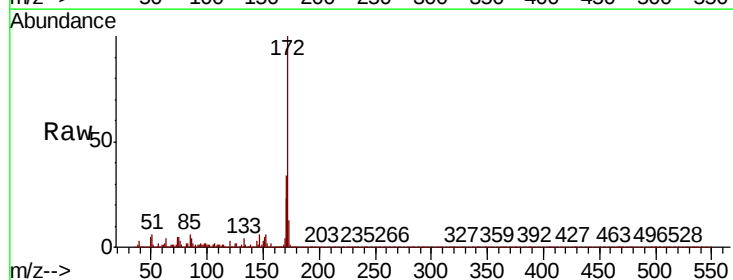
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 38.230 ng
 RT: 12.90 min Scan# 1719
 Delta R.T. -0.01 min
 Lab File: BP001667.D
 Acq: 17 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	27.6	41.4
170	23.1	18.3	27.5

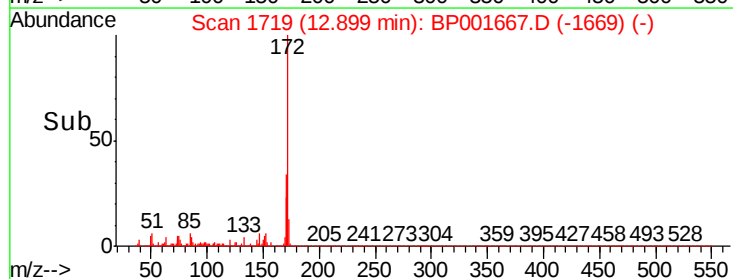
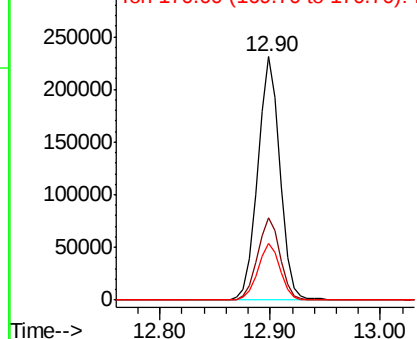


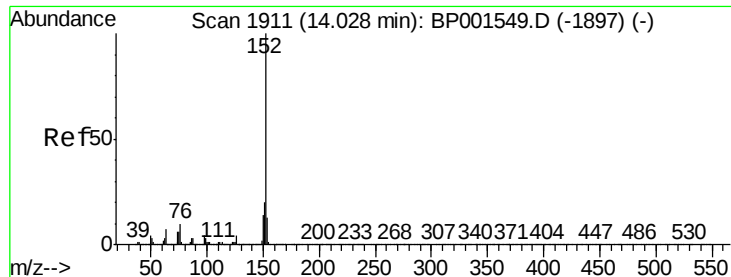
Abundance

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: 2.362 ng

RT: 14.00 min Scan# 1906

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

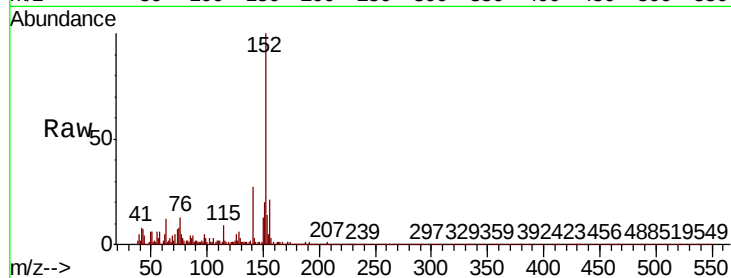
Tot Ion:152 Resp: 27226

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	13.8	10.4	15.6

152 100

151 19.8 15.9 23.9

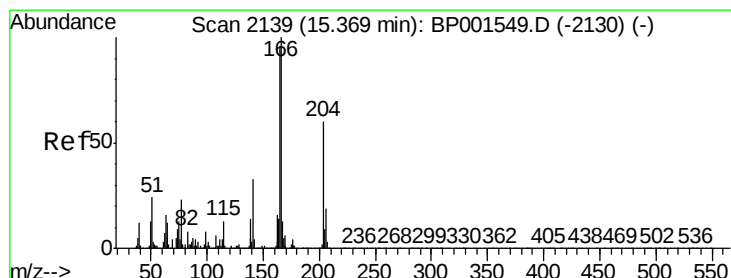
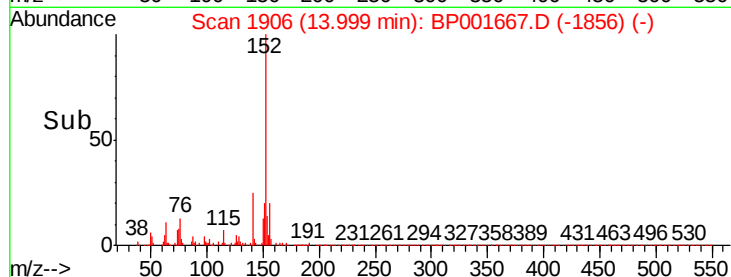
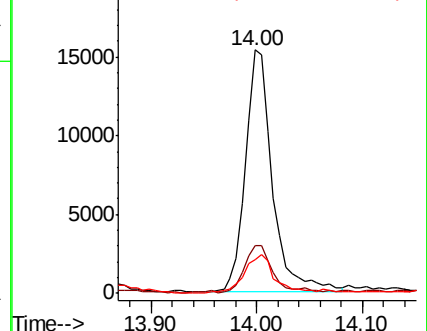
153 13.8 10.4 15.6



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



#58

Fluorene

Concen: 2.715 ng

RT: 15.34 min Scan# 2134

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

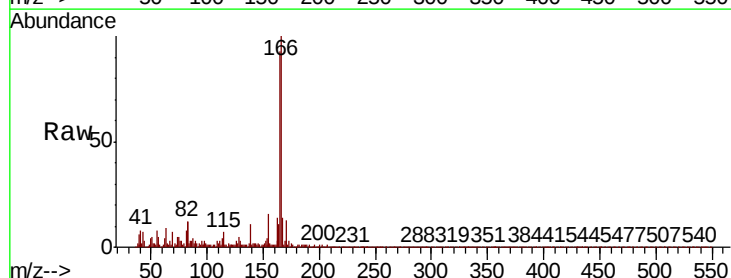
Tgt Ion:166 Resp: 26519

Ion	Ratio	Lower	Upper
166	100		
165	93.2	76.9	115.3
167	14.5	10.3	15.5

166 100

165 93.2 76.9 115.3

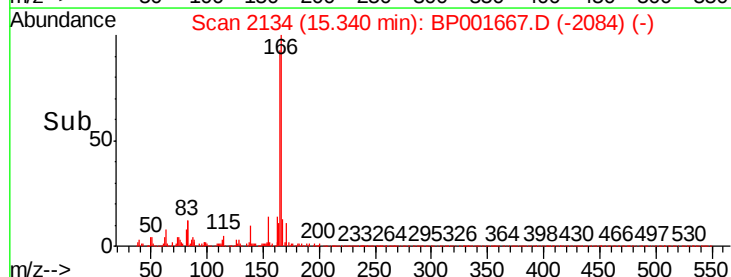
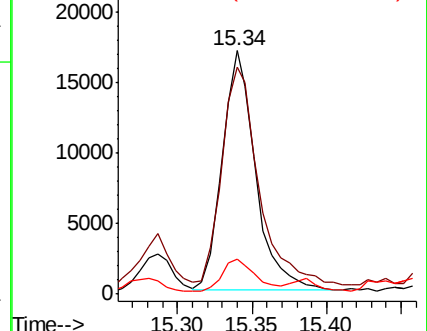
167 14.5 10.3 15.5

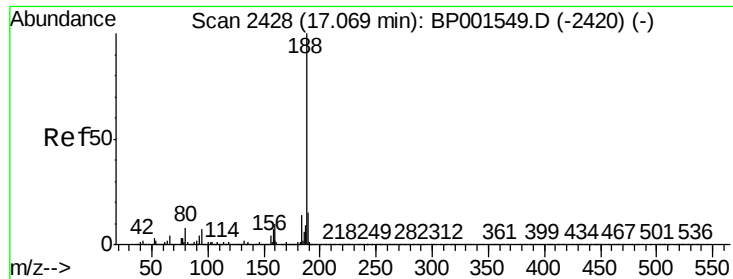


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.05 min Scan# 2424

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

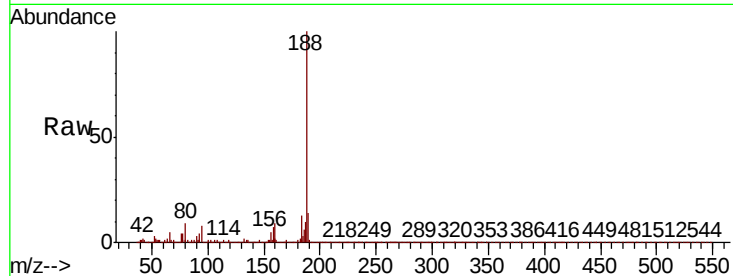
Tot Ion:188 Resp: 225630

Ion Ratio Lower Upper

188 100

94 7.9 5.9 8.9

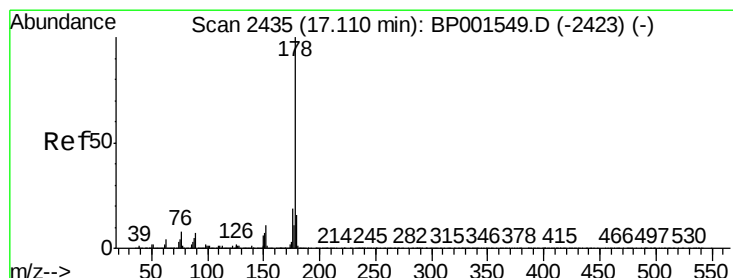
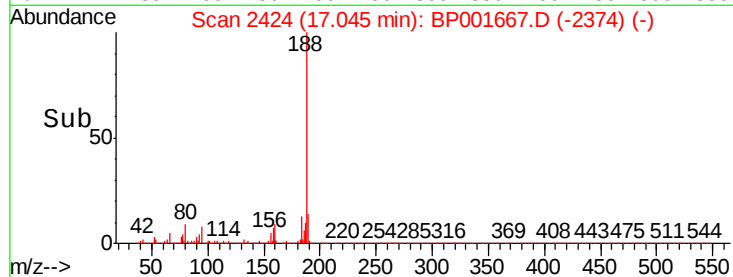
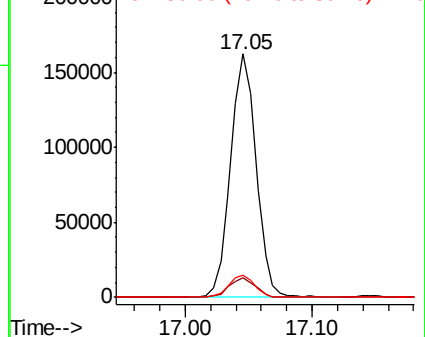
80 9.2 6.8 10.2



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



#71

Phenanthrene

Concen: 15.454 ng

RT: 17.09 min Scan# 2431

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

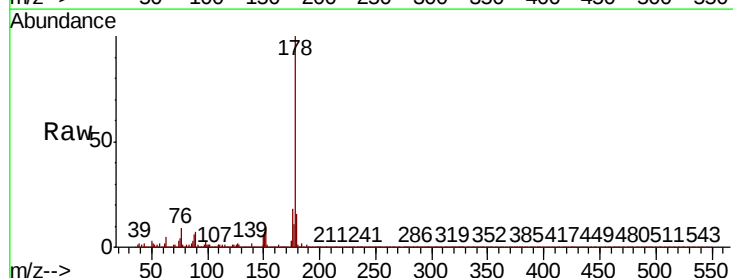
Tgt Ion:178 Resp: 189633

Ion Ratio Lower Upper

178 100

176 18.3 14.9 22.3

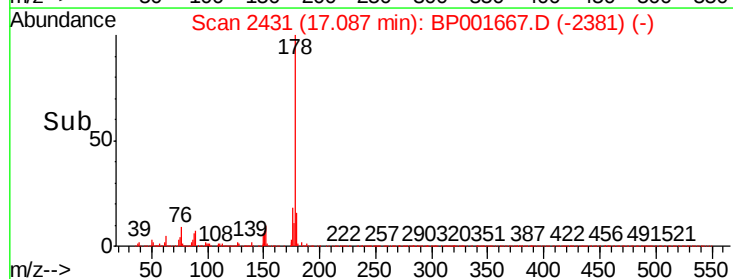
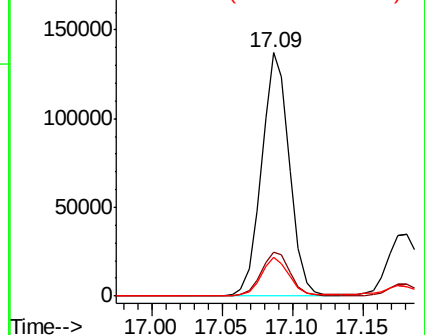
179 15.7 12.5 18.7

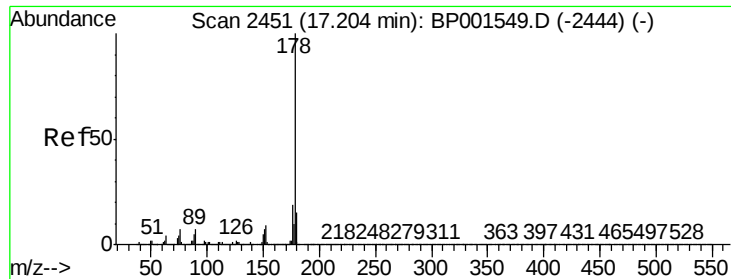


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 4.338 ng

RT: 17.18 min Scan# 2447

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

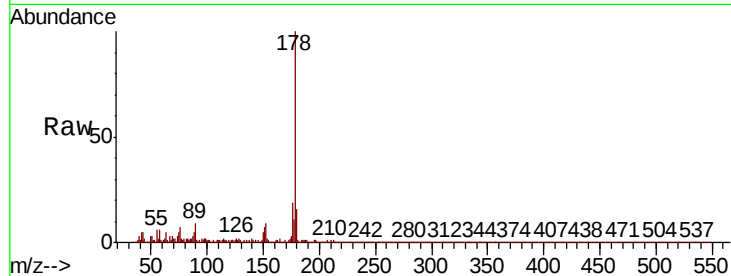
Tot Ion:178 Resp: 51817

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.6

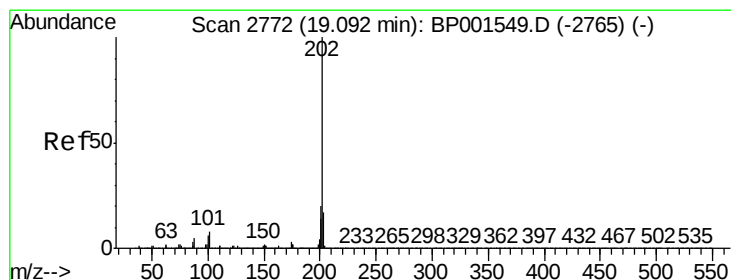
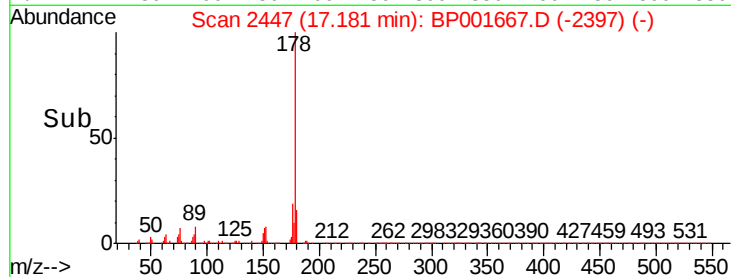
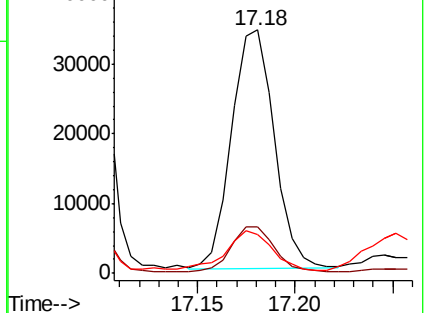
179 16.0 11.8 17.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 8.736 ng

RT: 19.07 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

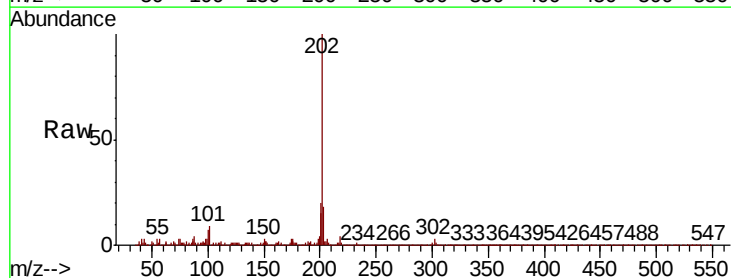
Tgt Ion:202 Resp: 141052

Ion Ratio Lower Upper

202 100

101 8.8 0.0 28.4

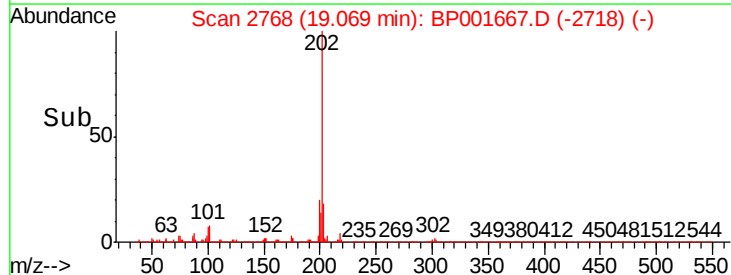
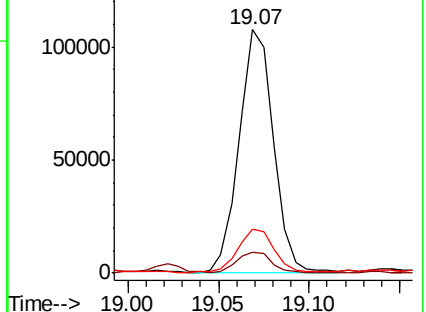
203 18.3 0.0 37.4

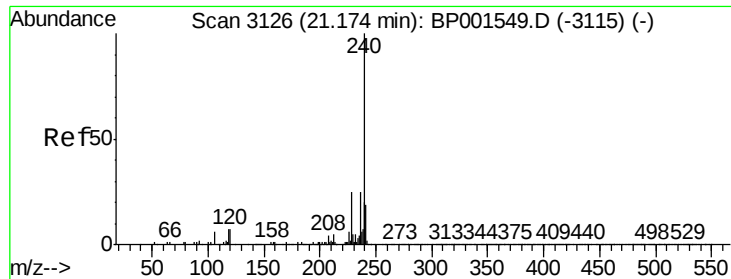


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

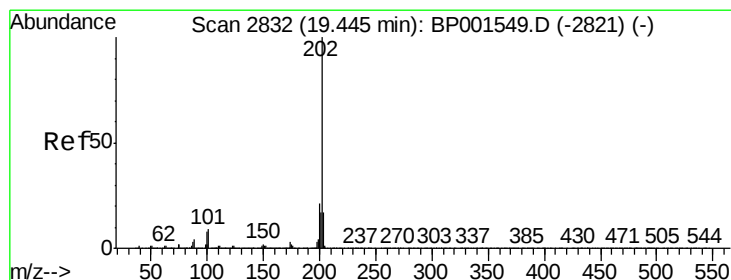
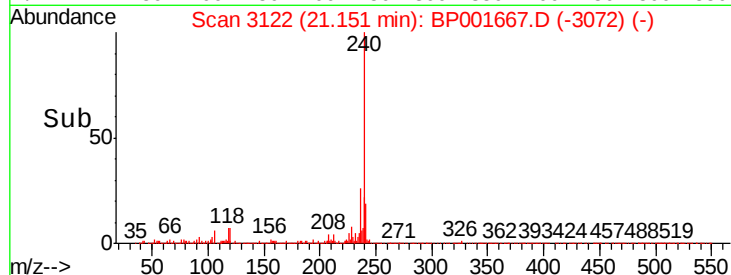
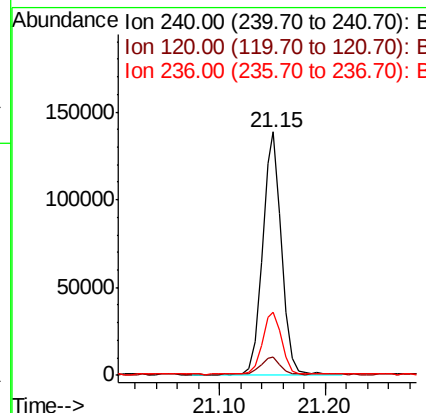
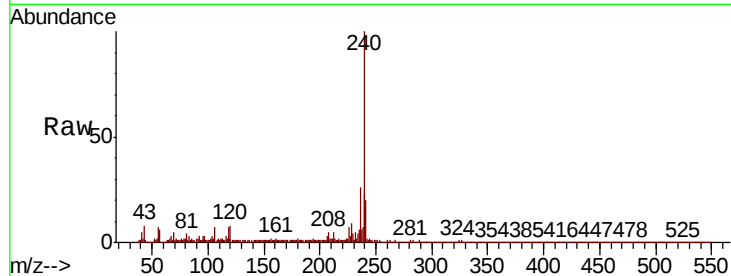




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.15 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

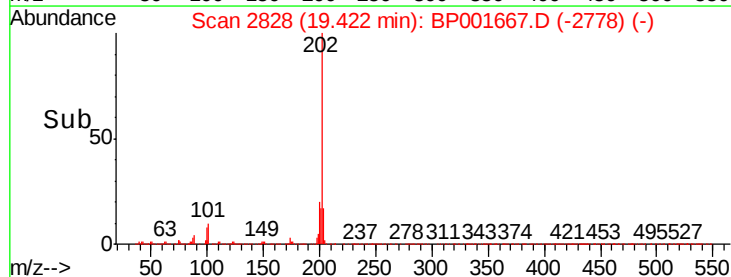
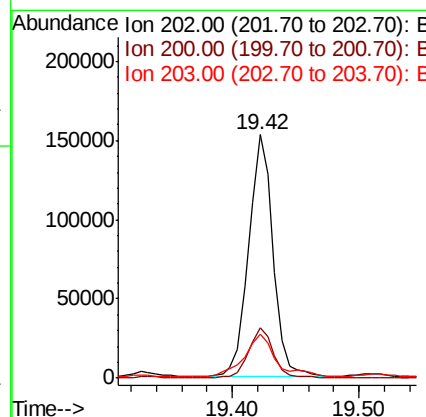
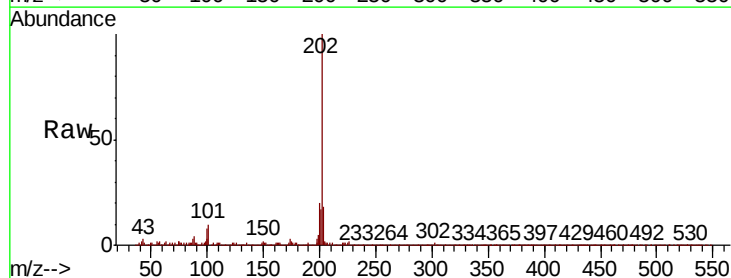
Instrument :
BNA_P
ClientSampleId :

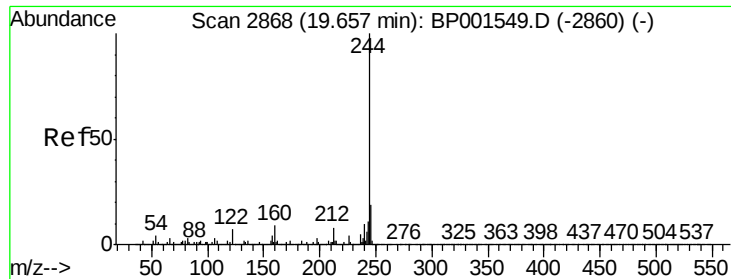
Tot Ion:240 Resp: 172970
Ion Ratio Lower Upper
240 100
120 7.8 5.7 8.5
236 26.0 20.4 30.6



#78
Pyrene
Concen: 16.190 ng
RT: 19.42 min Scan# 2828
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion:202 Resp: 205707
Ion Ratio Lower Upper
202 100
200 20.5 17.0 25.6
203 17.8 13.7 20.5

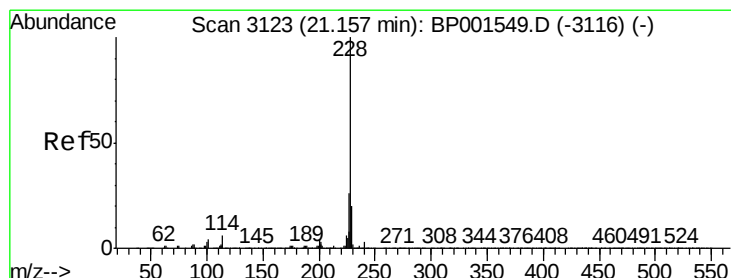
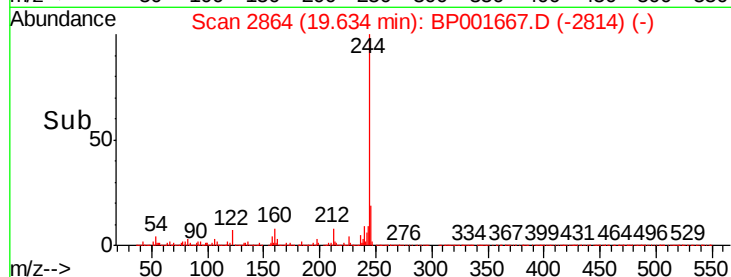
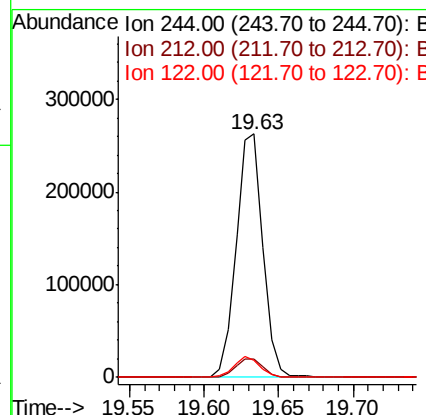
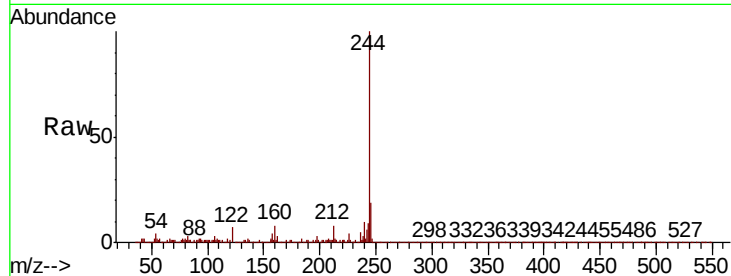




#79
 Terphenyl-d14
 Concen: 34.692 ng
 RT: 19.63 min Scan# 2864
 Delta R.T. -0.01 min
 Lab File: BP001667.D
 Acq: 17 Jan 2020 20:42

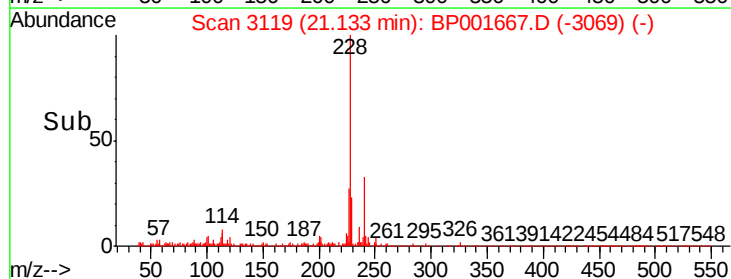
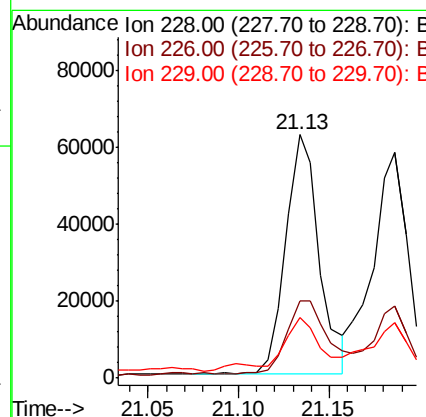
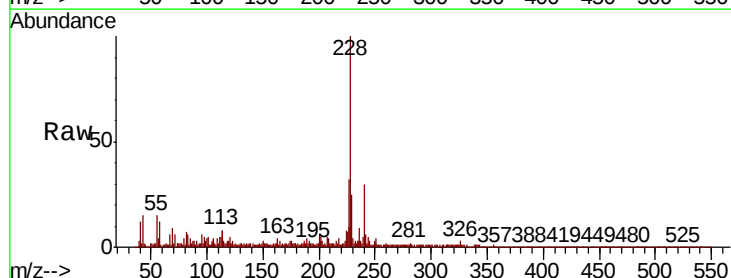
Instrument :
 BNA_P
 ClientSampleId :

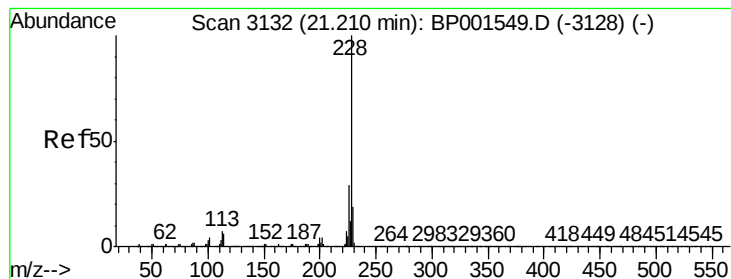
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.3	9.5
122	7.2	5.8	8.6



#81
 Benzo(a)anthracene
 Concen: 6.739 ng
 RT: 21.13 min Scan# 3119
 Delta R.T. -0.01 min
 Lab File: BP001667.D
 Acq: 17 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	21.2	31.8
229	24.7	16.1	24.1





#83

Chrysene

Concen: 6.812 ng

RT: 21.19 min Scan# 3128

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

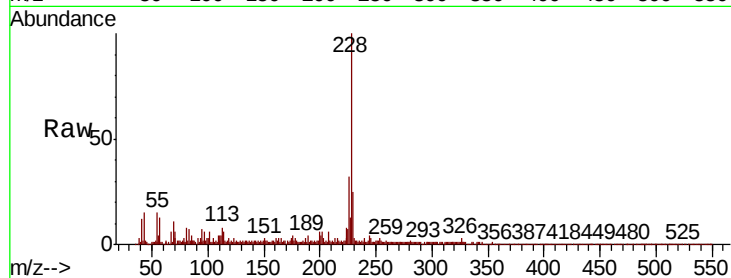
Tot Ion:228 Resp: 79976

Ion Ratio Lower Upper

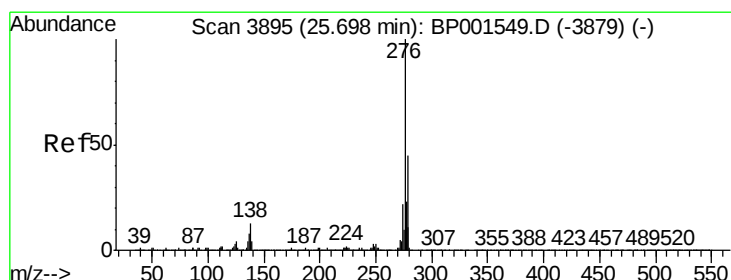
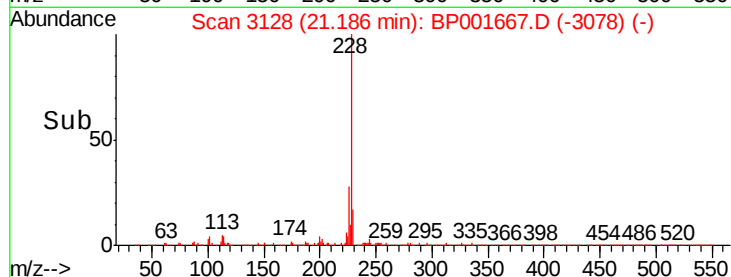
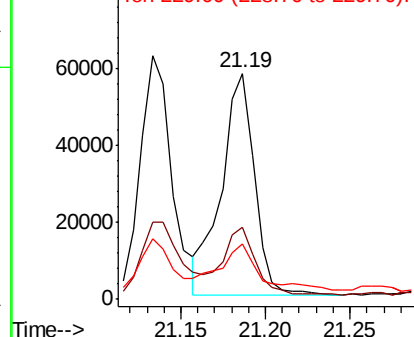
228 100

226 32.0 23.2 34.8

229 24.8 15.2 22.8#



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

Indeno(1,2,3-cd)pyrene

Concen: 2.400 ng

RT: 25.65 min Scan# 3887

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

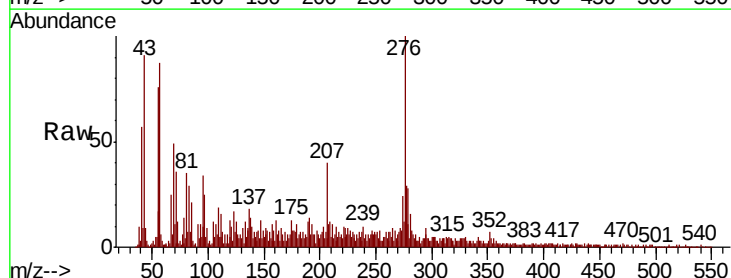
Tgt Ion:276 Resp: 32986

Ion Ratio Lower Upper

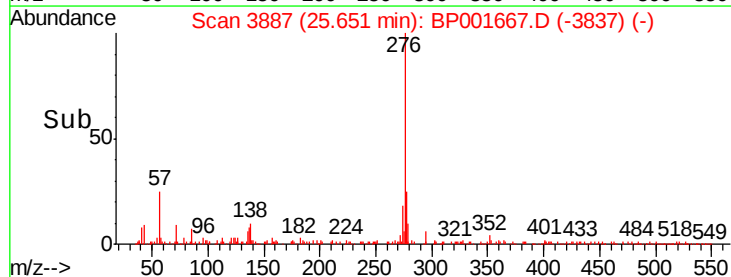
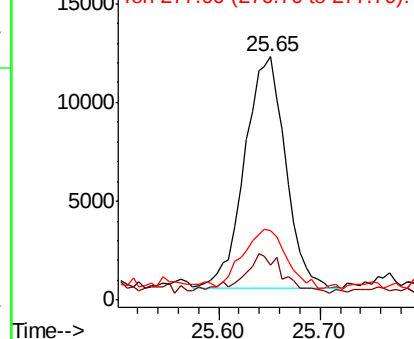
276 100

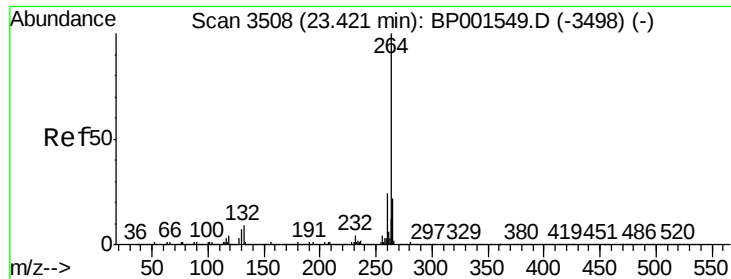
138 16.9 11.1 16.7#

277 25.9 20.4 30.6



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

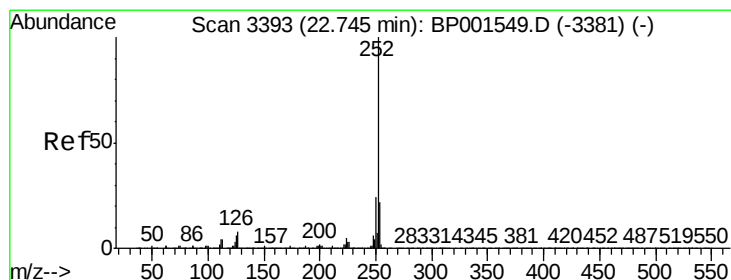
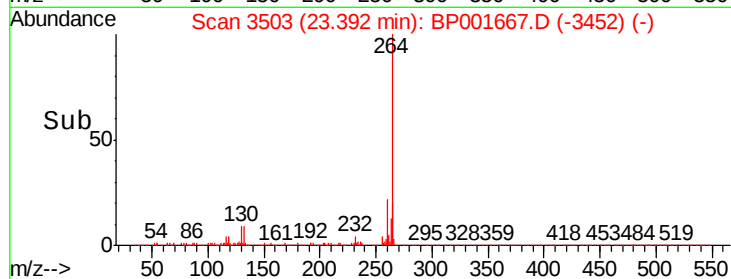
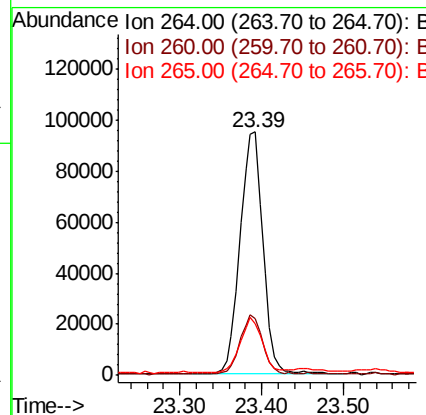
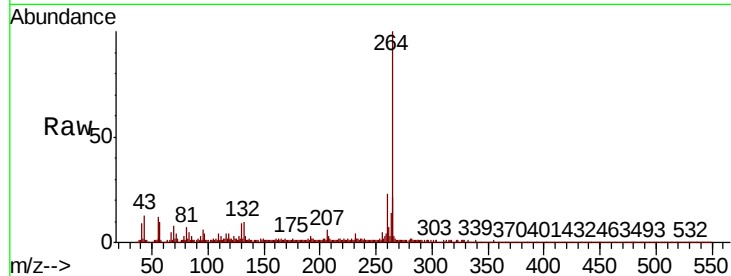




#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.39 min Scan# 3503
Delta R.T. 0.00 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

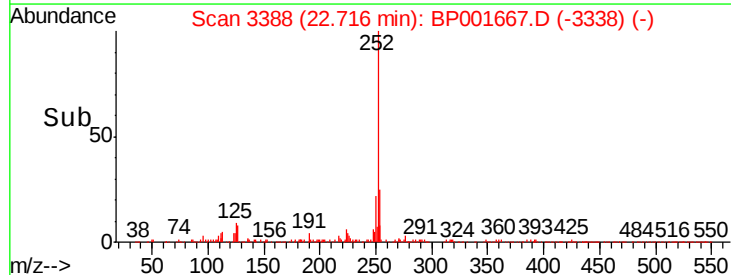
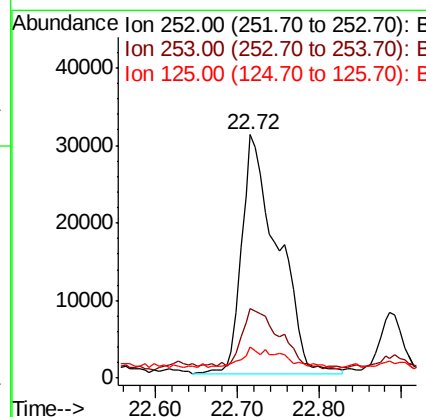
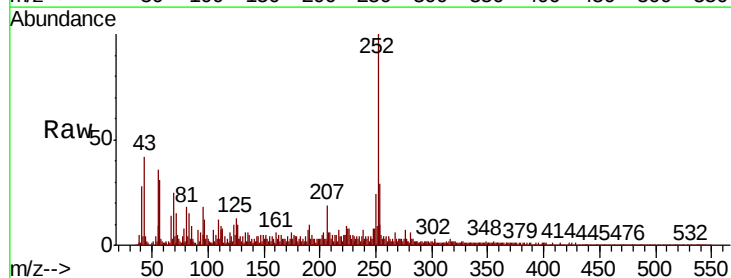
Instrument :
BNA_P
ClientSampleId :

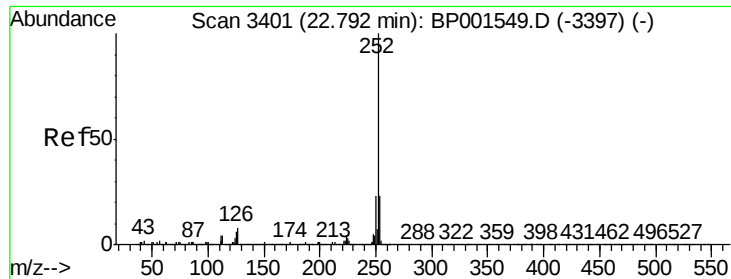
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.0	28.6
265	21.4	18.2	27.4



#88
Benzo(b)fluoranthene
Concen: 8.124 ng
RT: 22.72 min Scan# 3388
Delta R.T. -0.01 min
Lab File: BP001667.D
Acq: 17 Jan 2020 20:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.7	17.6	26.4#
125	12.8	4.6	7.0#





#89

Benzo(k)fluoranthene

Concen: 8.332 ng

RT: 22.72 min Scan# 3388

Delta R.T. -0.05 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

Instrument :

BNA_P

ClientSampleId :

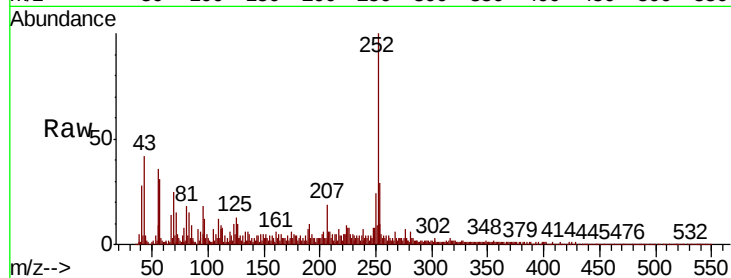
Tot Ion:252 Resp: 94992

Ion Ratio Lower Upper

252 100

253 28.7 18.2 27.2#

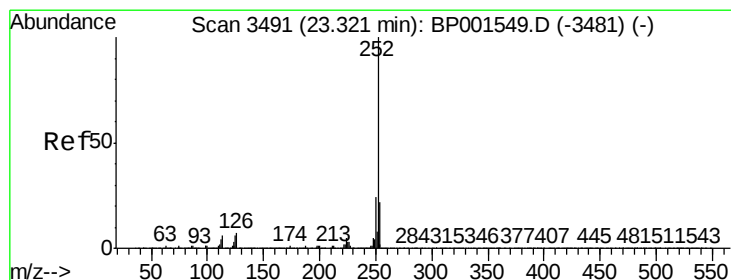
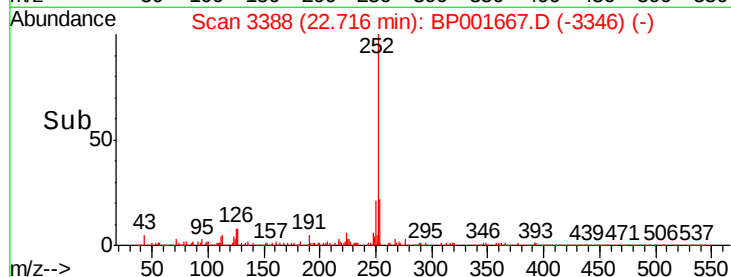
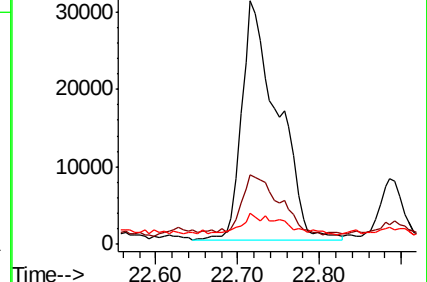
125 12.8 4.6 6.8#



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



#90

Benzo(a)pyrene

Concen: 5.345 ng

RT: 23.29 min Scan# 3485

Delta R.T. -0.01 min

Lab File: BP001667.D

Acq: 17 Jan 2020 20:42

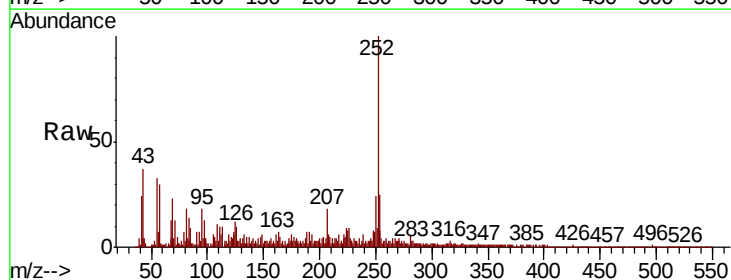
Tgt Ion:252 Resp: 59341

Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

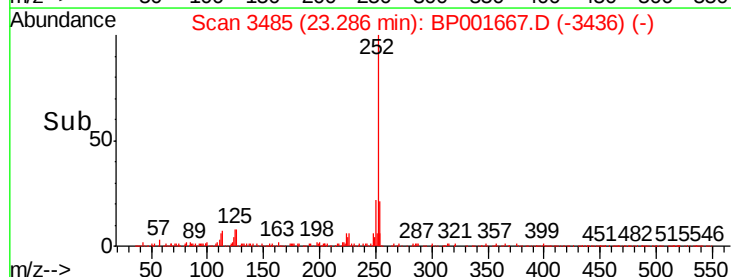
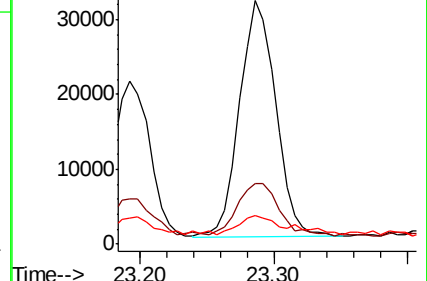
125 11.7 5.0 7.4#

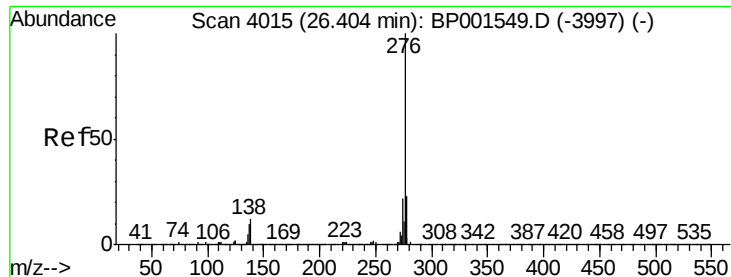


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

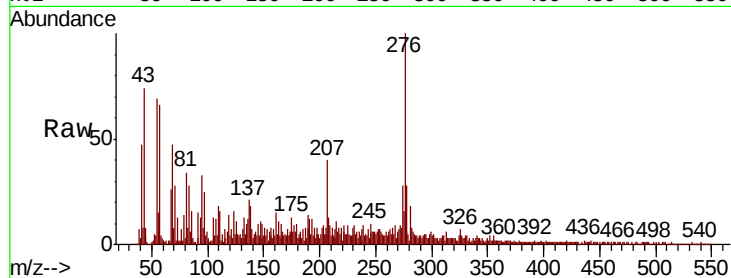




#92
 Benzo(a,h,i)perylene
 Concen: 3.271 ng
 RT: 26.33 min Scan# 4003
 Delta R.T. -0.01 min
 Lab File: BP001667.D
 Acq: 17 Jan 2020 20:42

Instrument :
 BNA_P
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	28.2	18.6	28.0#
138	17.6	9.4	14.2#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

