

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121319\  
 Data File : BF118197.D  
 Acq On : 13 Dec 2019 20:24  
 Operator : JU  
 Sample : K6247-01DL 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR200059DL

Quant Time: Dec 13 22:47:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	125612	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	494172	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	260968	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	483393	20.00	ng	0.00
76) Chrysene-d12	14.06	240	314779	20.00	ng	-0.01
87) Perylene-d12	15.55	264	316243	20.00	ng	0.00

## System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	321878	44.88	ng	0.00
7) Phenol-d6	6.49	99	401757	46.31	ng	0.00
23) Nitrobenzene-d5	7.43	82	238686	27.17	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	135150	42.63	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	538837	31.42	ng	-0.01
79) Terphenyl-d14	12.99	244	626950	34.25	ng	-0.01

## Target Compounds

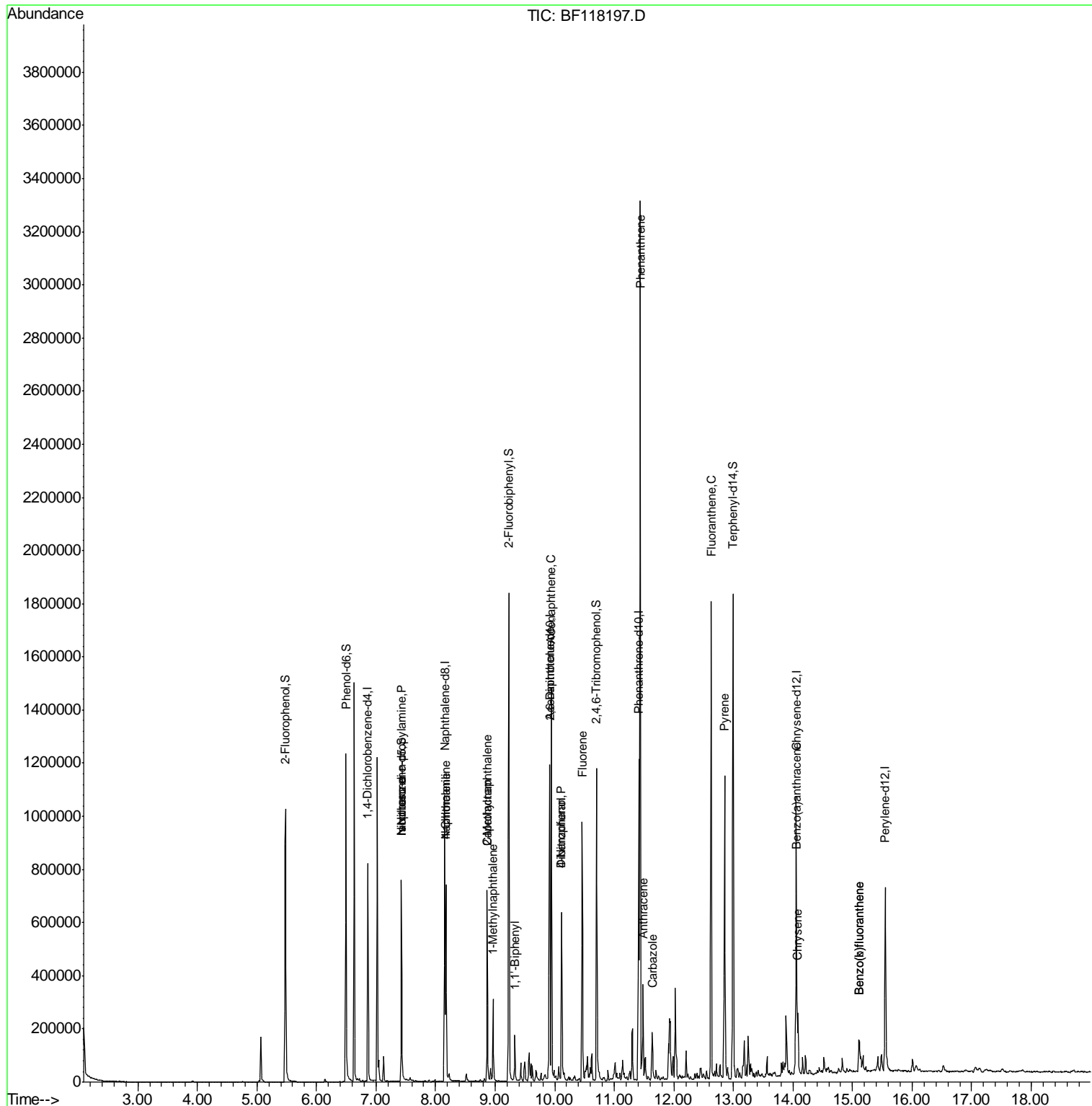
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.49	77	465	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.43	70	32284	6.125	ng	# 77
25) Isophorone	7.43	82	238685	16.029	ng	# 62
31) Naphthalene	8.17	128	310119	12.496	ng	# 99
33) 4-Chloroaniline	8.17	127	39882	3.722	ng	# 40
35) Caprolactam	8.87	113	4509	2.038	ng	# 1
37) 2-Methylnaphthalene	8.87	142	187880	11.182	ng	100
38) 1-Methylnaphthalene	8.97	142	89101	5.648	ng	98
46) 1,1'-Biphenyl	9.33	154	61486	2.987	ng	97
51) 2,6-Dinitrotoluene	9.92	165	36906	8.805	ng	# 28
52) Acenaphthene	9.95	154	282867	18.978	ng	98
55) Dibenzofuran	10.12	168	259096	11.863	ng	99
56) 4-Nitrophenol	10.12	139	104289	30.465	ng	# 8
58) Fluorene	10.46	166	254760	14.678	ng	99
71) Phenanthrene	11.43	178	1118734	43.536	ng	99
72) Anthracene	11.48	178	131217	5.119	ng	99
73) Carbazole	11.64	167	70453	3.063	ng	98
75) Fluoranthene	12.63	202	678334	25.819	ng	99
78) Pyrene	12.86	202	453548	18.284	ng	99
81) Benzo(a)anthracene	14.04	228	94008	4.319	ng	98
83) Chrysene	14.08	228	100873	4.852	ng	98
88) Benzo(b)fluoranthene	15.11	252	90171	4.311	ng	# 97
89) Benzo(k)fluoranthene	15.11	252	90171	4.488	ng	# 94

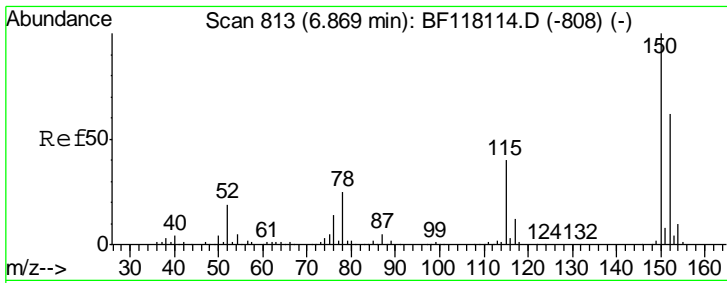
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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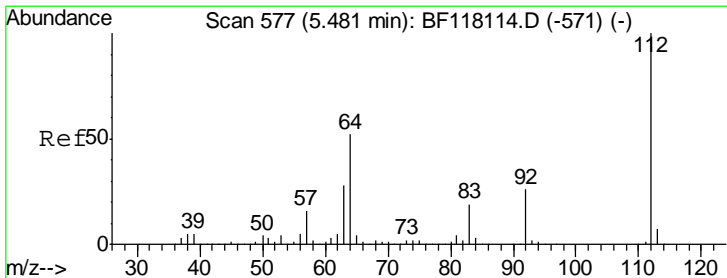
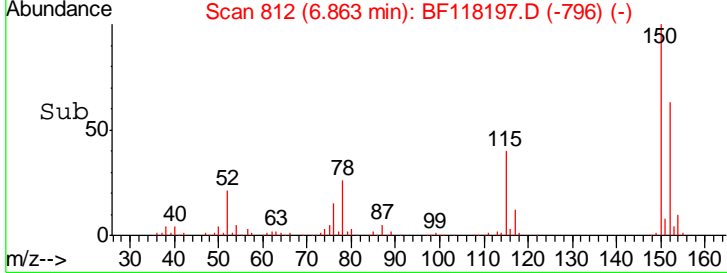
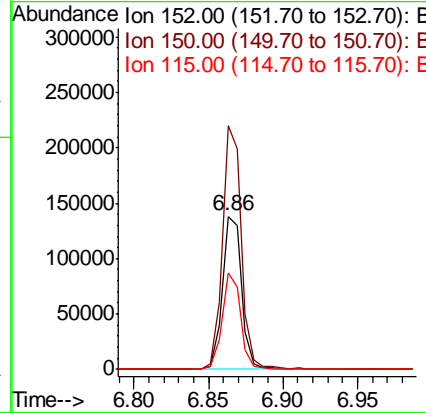
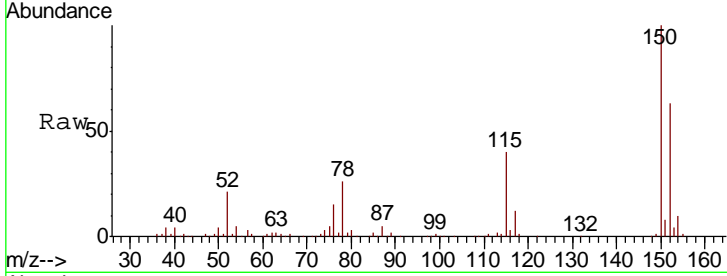




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

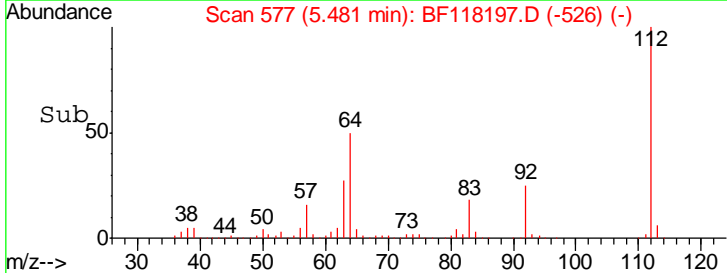
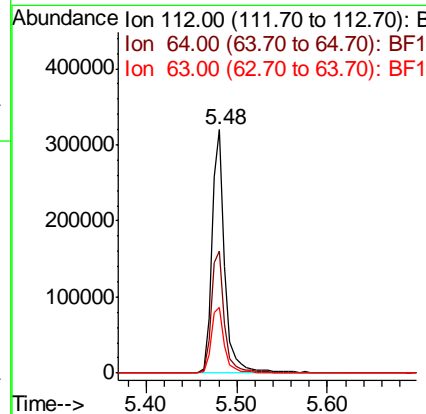
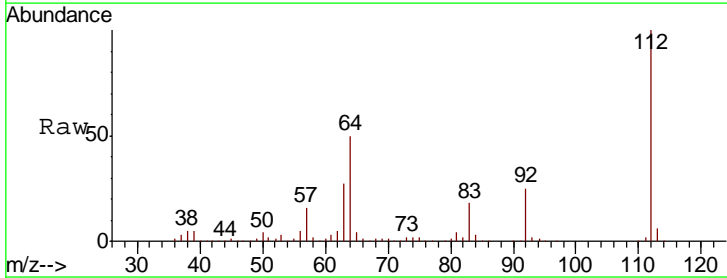
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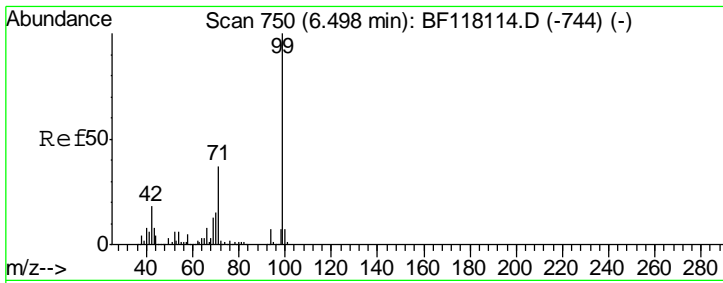
Tgt Ion	Resp	Lower	Upper
152	125612		
150	159.3	128.3	192.5
115	63.1	51.1	76.7



#5  
 2-Fluorophenol  
 Concen: 44.881 ng  
 RT: 5.48 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
112	321878		
64	50.3	41.3	61.9
63	27.0	22.4	33.6

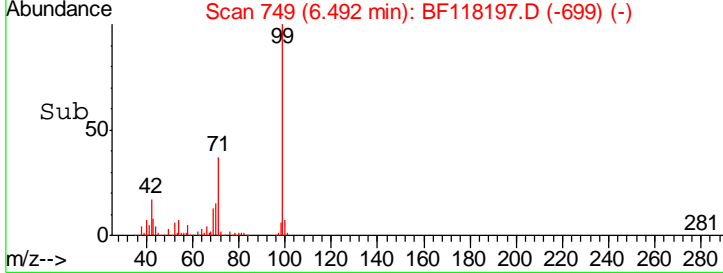
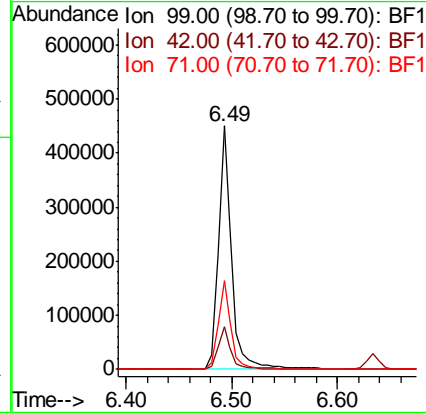
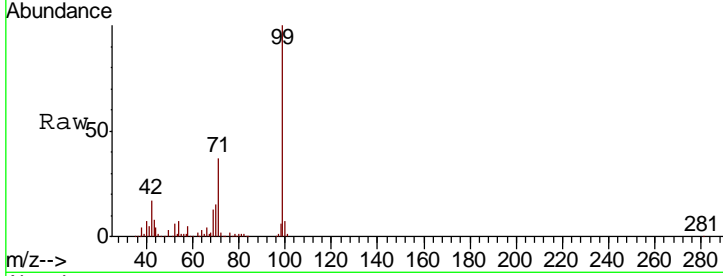




#7  
 Phenol-d6  
 Concen: 46.315 ng  
 RT: 6.49 min Scan# 749  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

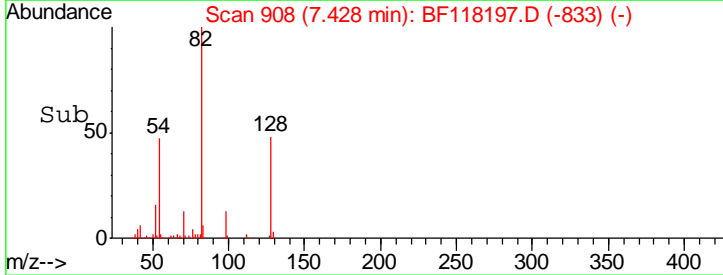
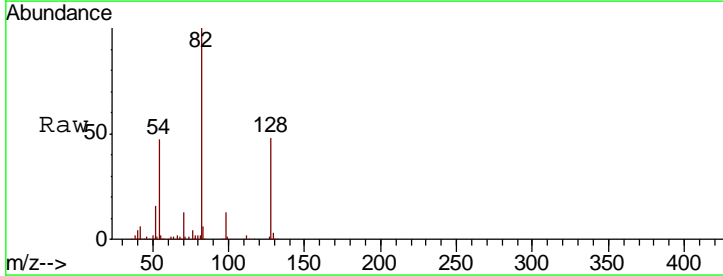
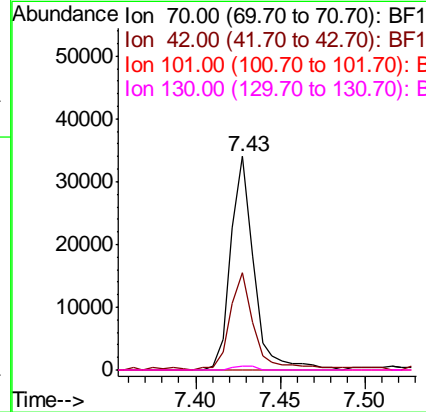
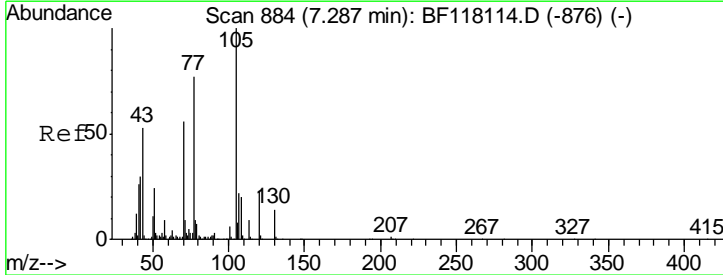
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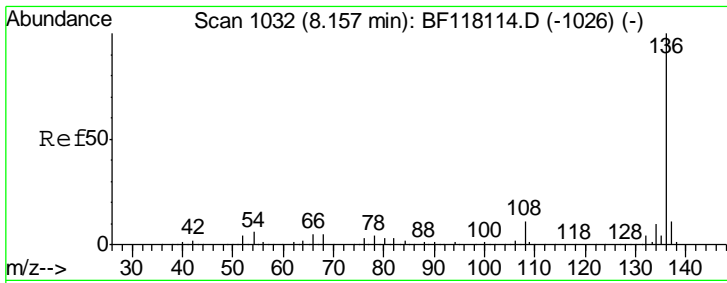
Tgt Ion	Resp	Lower	Upper
99	401757		
42	17.4	14.1	21.1
71	36.5	29.7	44.5



#19  
 n-Nitroso-di-n-propylamine  
 Concen: 6.125 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. 0.14 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
70	32284		
42	45.3	43.2	64.8
101	0.0	8.1	12.1#
130	2.0	19.8	29.8#

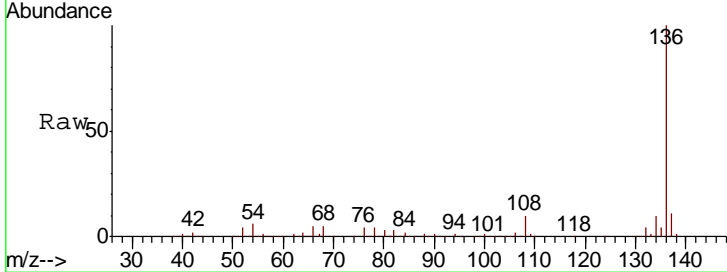




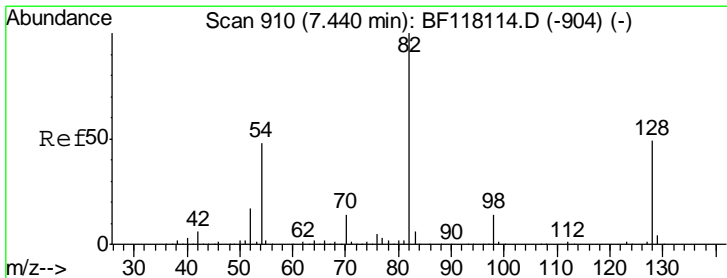
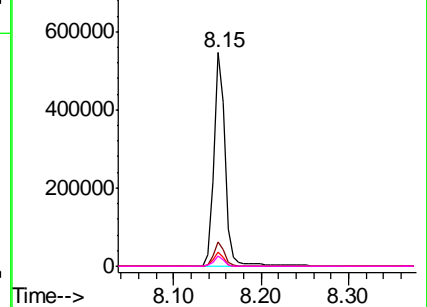
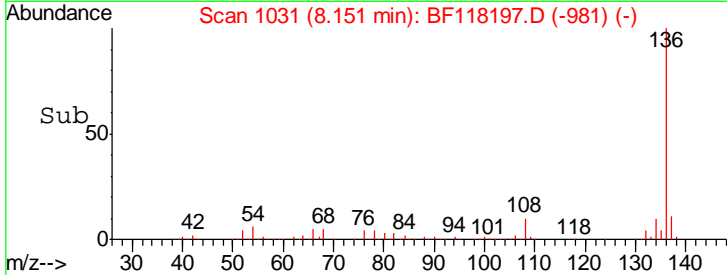
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF118197.D  
Acq: 13 Dec 2019 20:24

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RBR200059DL

Tgt Ion	Resp	Lower	Upper
136	494172		
137	11.2	9.0	13.6
54	6.5	5.0	7.6
68	4.9	3.8	5.8

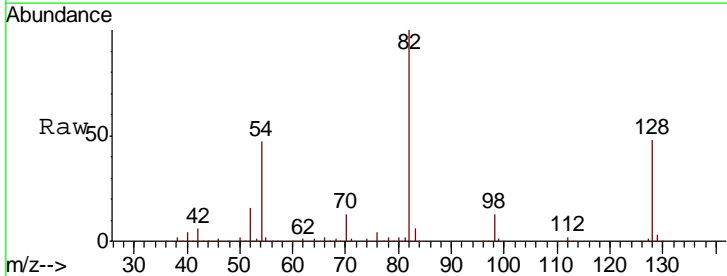


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

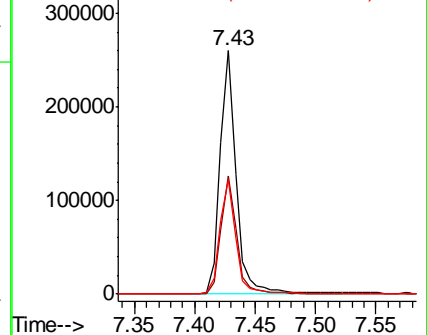
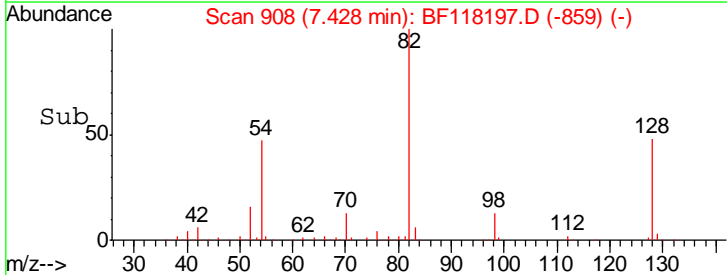


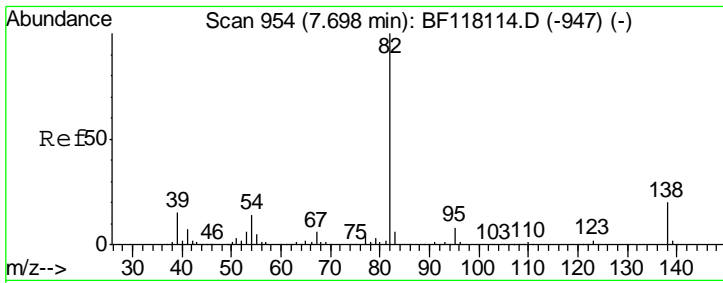
#23  
Nitrobenzene-d5  
Concen: 27.173 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF118197.D  
Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
82	238686		
128	48.4	39.1	58.7
54	46.9	38.2	57.2



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

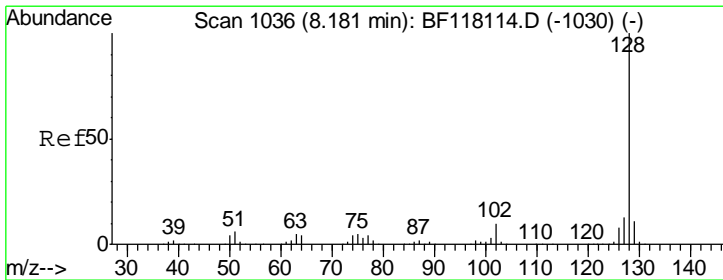
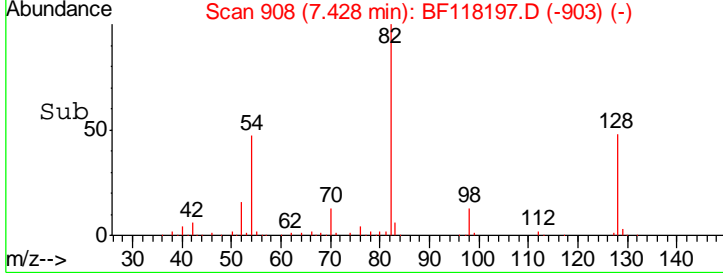
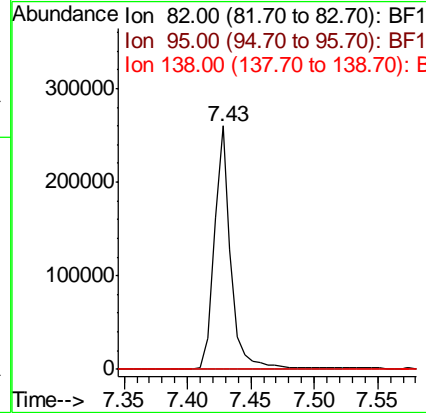
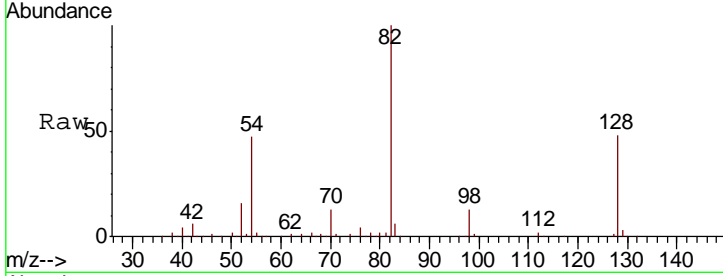




#25  
 Isophorone  
 Concen: 16.029 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.27 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

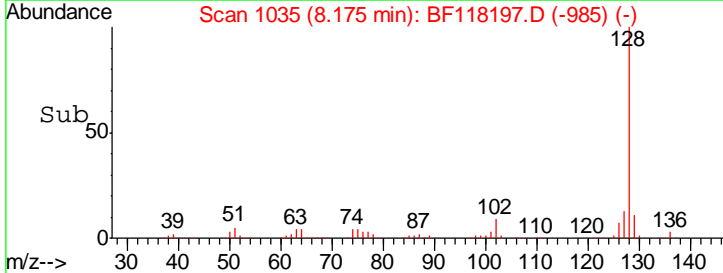
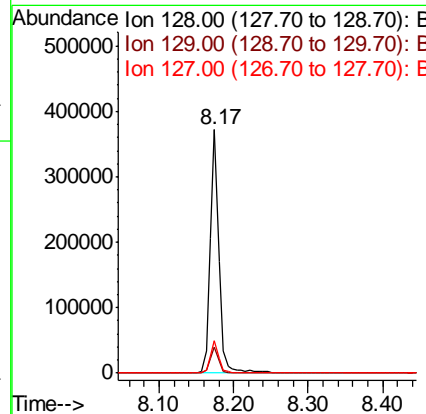
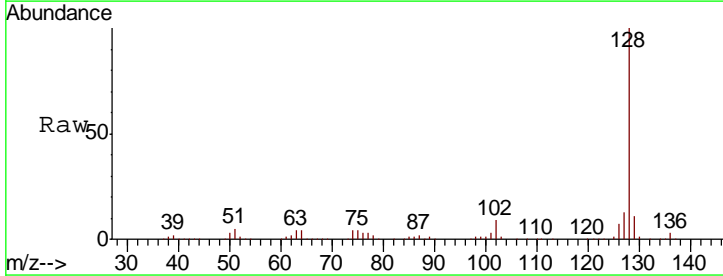
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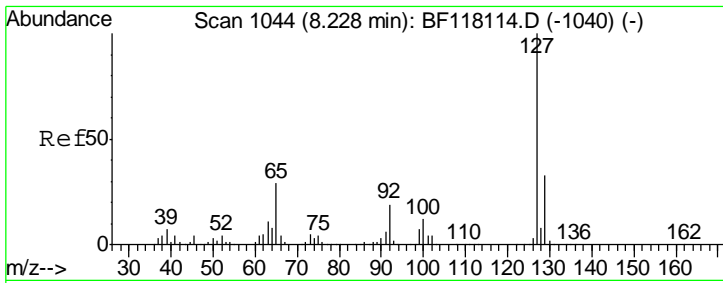
Tgt Ion	Resp	Lower	Upper
82	100		
95	0.0	6.3	9.5#
138	0.0	16.3	24.5#



#31  
 Naphthalene  
 Concen: 12.496 ng  
 RT: 8.17 min Scan# 1035  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
128	100		
129	10.6	9.1	13.7
127	13.5	10.6	16.0

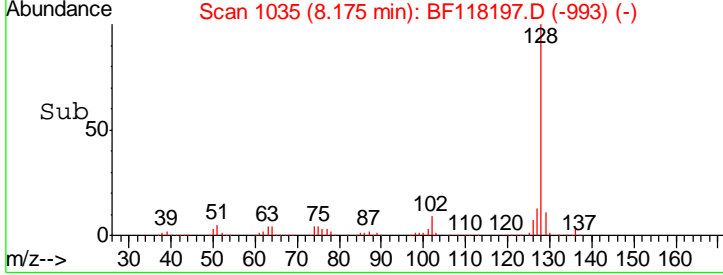
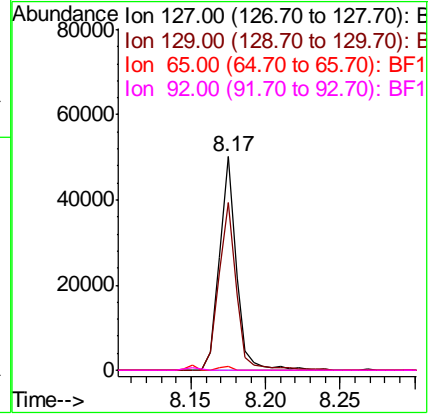
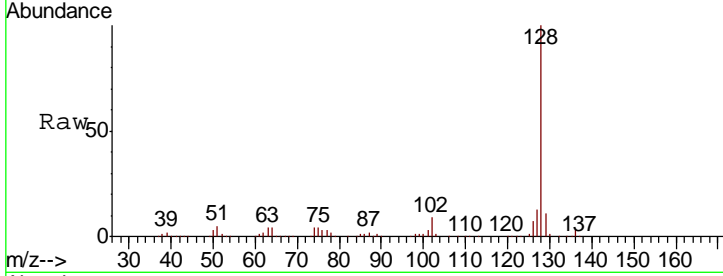




#33  
 4-Chloroaniline  
 Concen: 3.722 ng  
 RT: 8.17 min Scan# 1035  
 Delta R.T. -0.05 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

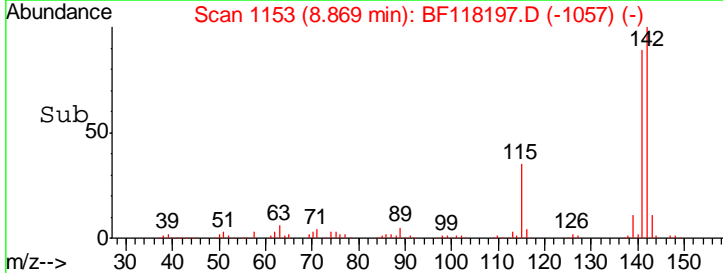
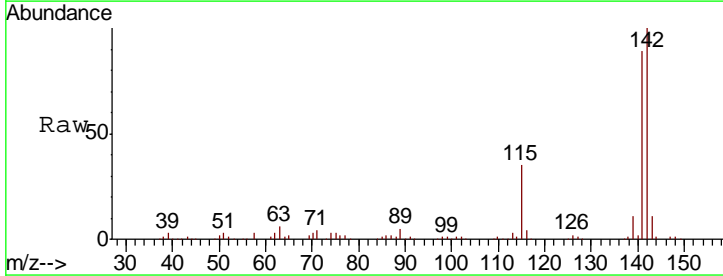
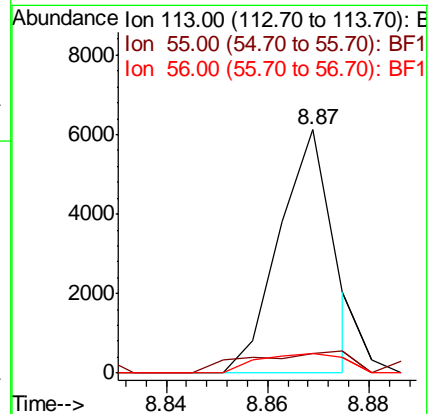
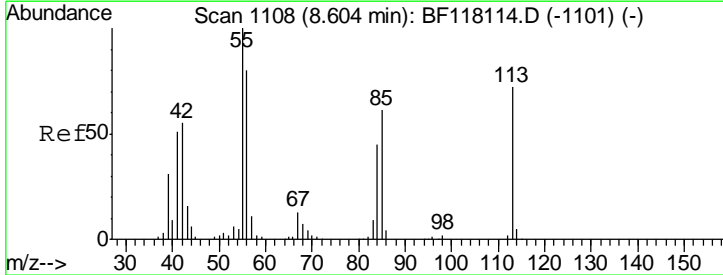
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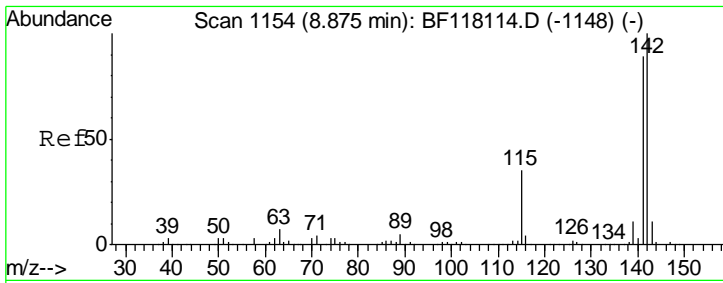
Tgt Ion	Resp	Lower	Upper
127	39882		
129	78.4	26.6	40.0#
65	1.9	23.2	34.8#
92	0.0	15.4	23.0#



#35  
 Caprolactam  
 Concen: 2.038 ng  
 RT: 8.87 min Scan# 1153  
 Delta R.T. 0.26 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
113	4509		
55	8.0	118.9	158.9#
56	7.8	91.4	131.4#

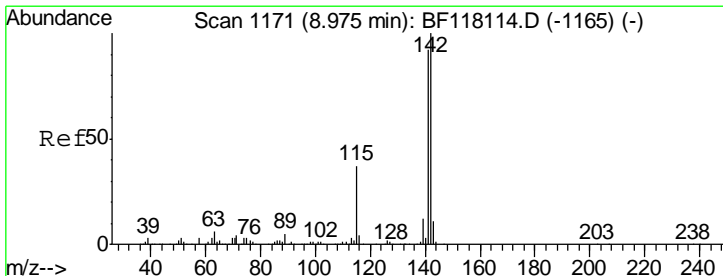
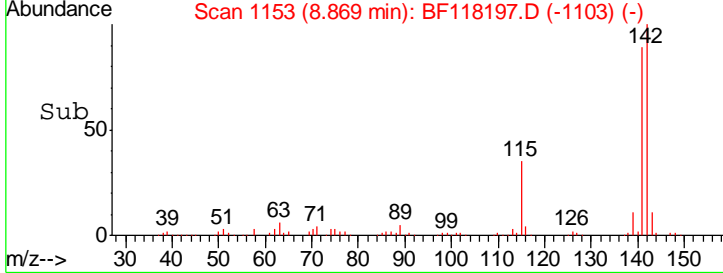
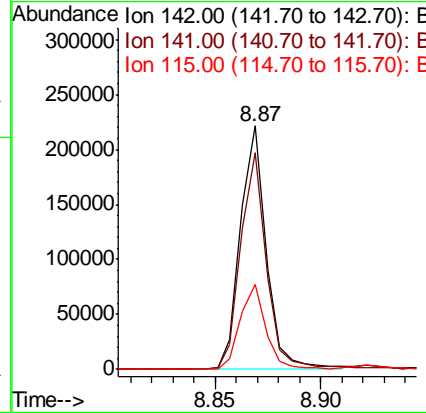
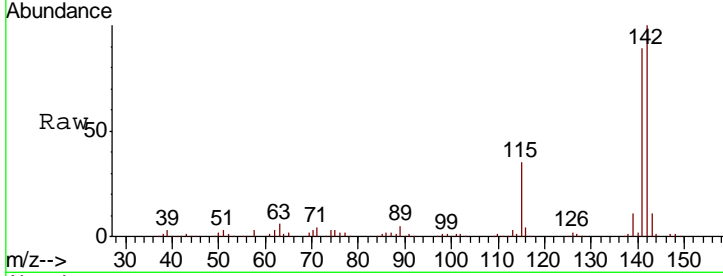




#37  
 2-Methylnaphthalene  
 Concen: 11.182 ng  
 RT: 8.87 min Scan# 1153  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

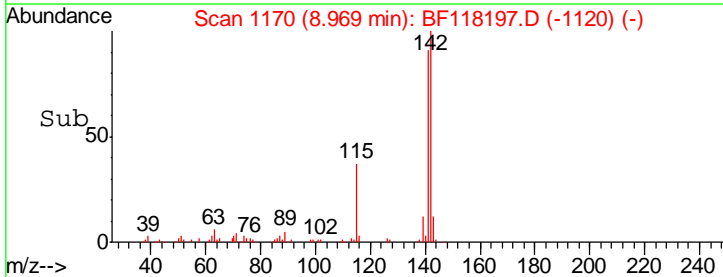
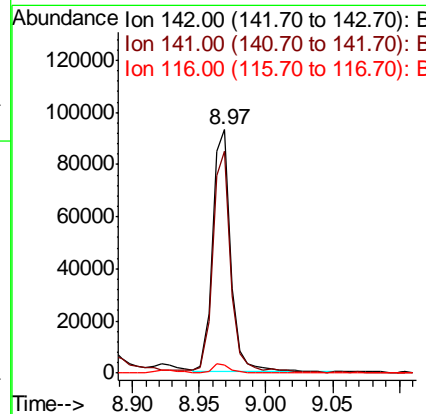
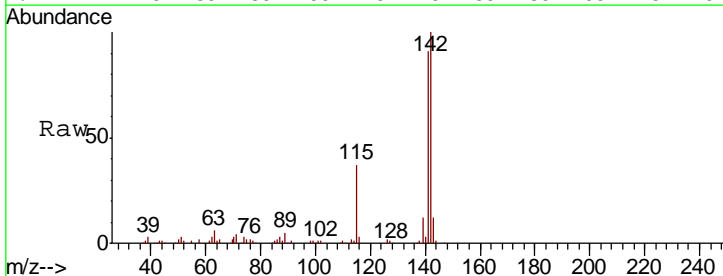
Instrument :  
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Tgt Ion	Resp	Lower	Upper
142	187880		
141	89.0	71.4	107.0
115	35.1	28.2	42.4

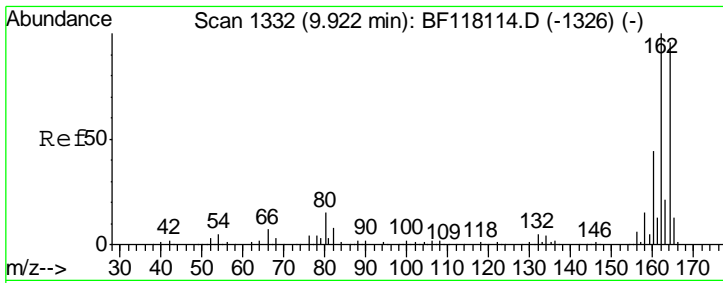


#38  
 1-Methylnaphthalene  
 Concen: 5.648 ng  
 RT: 8.97 min Scan# 1170  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
142	89101		
141	90.9	74.0	111.0
116	3.3	3.2	4.8



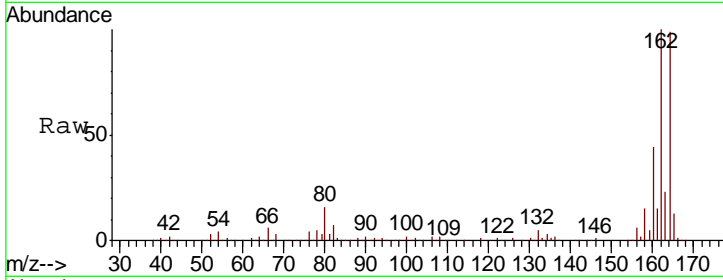




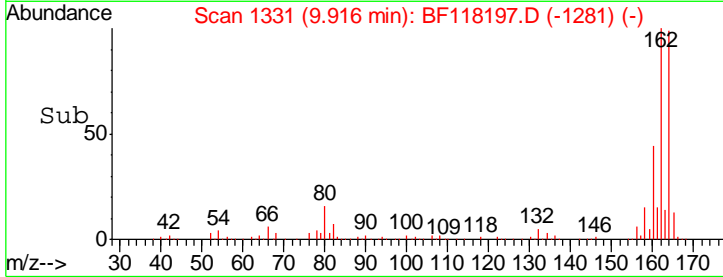
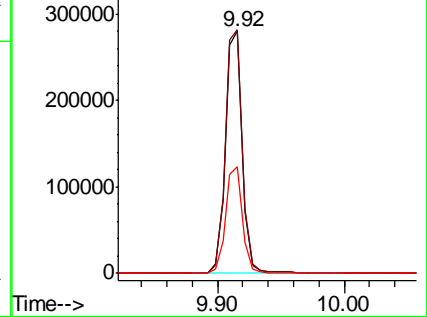
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR200059DL

Tgt Ion	Resp	Lower	Upper
164	100		
162	100.6	83.4	125.0
160	44.2	36.6	54.8

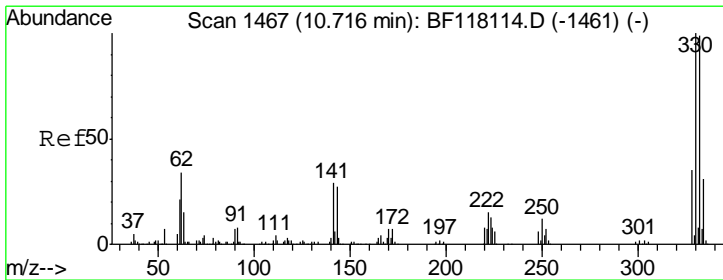


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

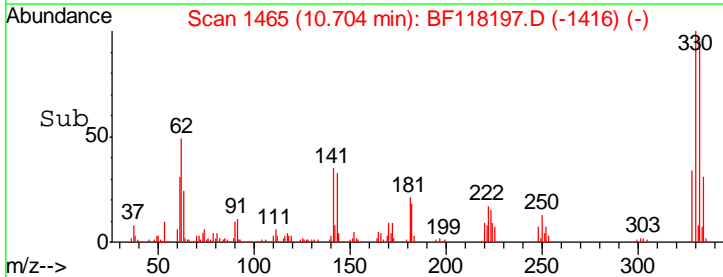
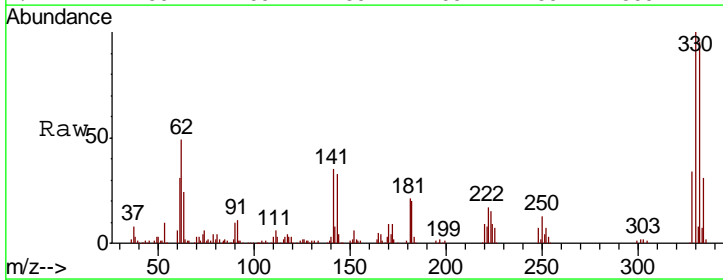
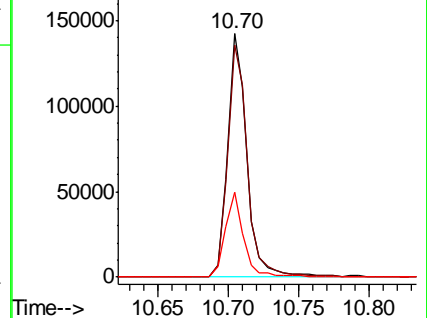


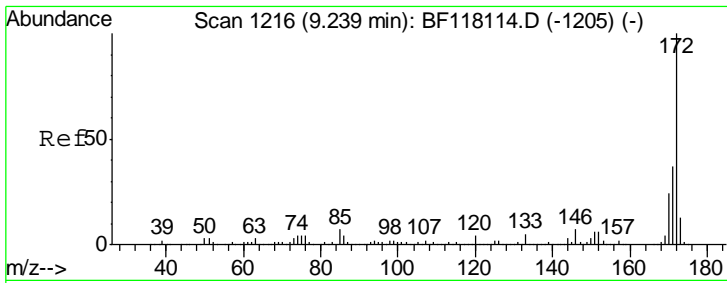
#42  
 2,4,6-Tribromophenol  
 Concen: 42.630 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
330	100		
332	98.4	78.1	117.1
141	33.7	26.9	40.3



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

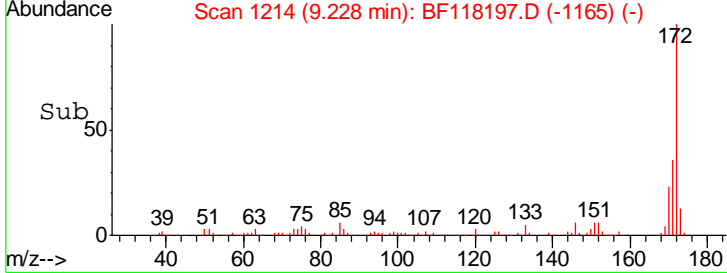
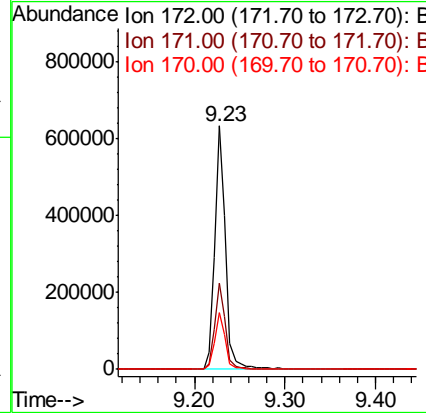
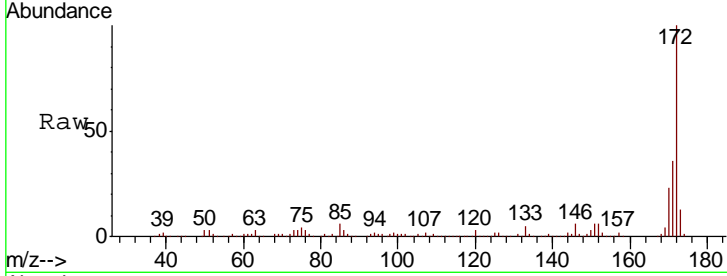




#45  
 2-Fluorobiphenyl  
 Concen: 31.418 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

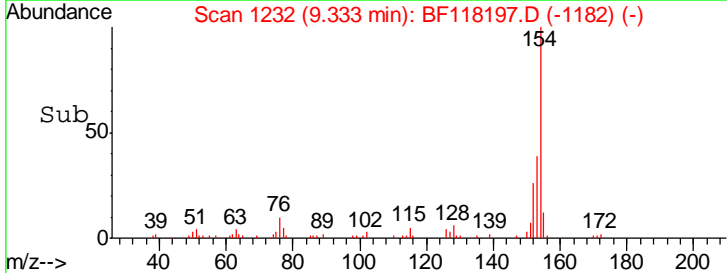
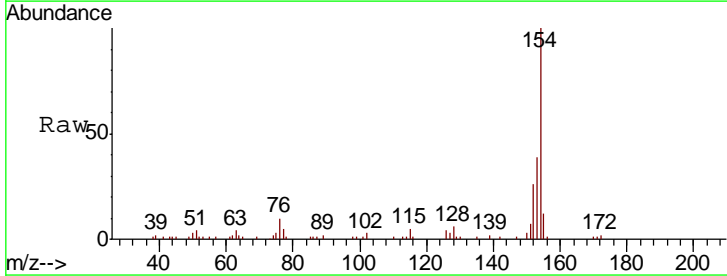
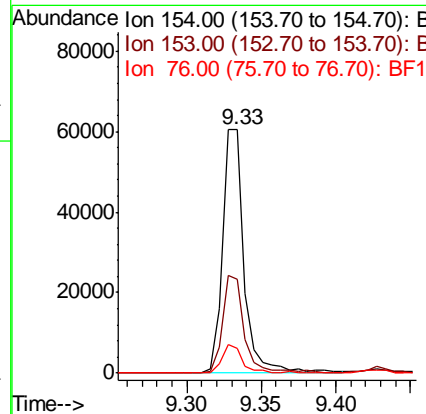
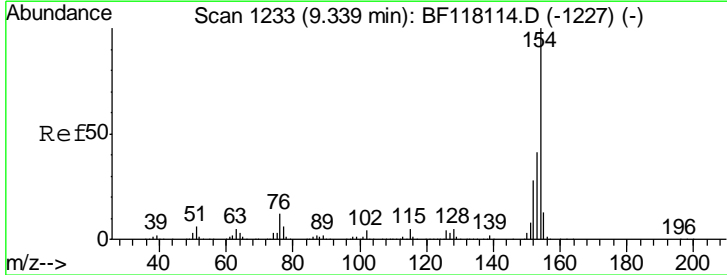
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR200059DL

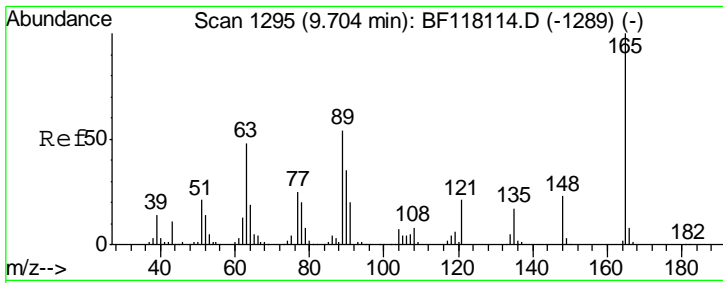
Tgt Ion	Resp	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.1	19.4	29.2



#46  
 1,1'-Biphenyl  
 Concen: 2.987 ng  
 RT: 9.33 min Scan# 1232  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
154	100		
153	38.8	20.7	60.7
76	10.2	0.0	31.9

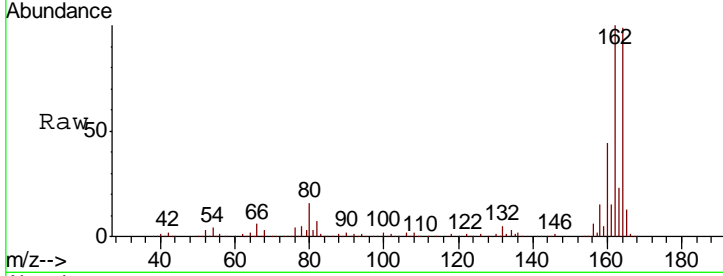




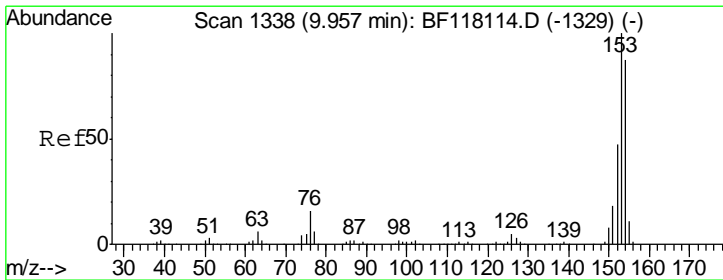
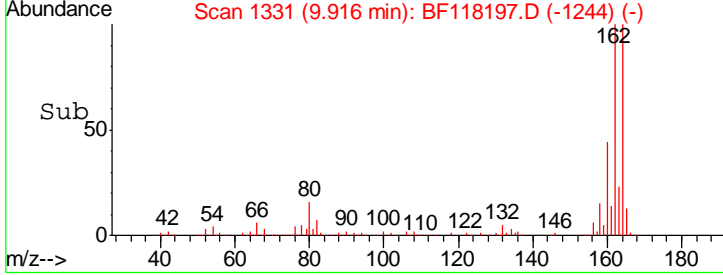
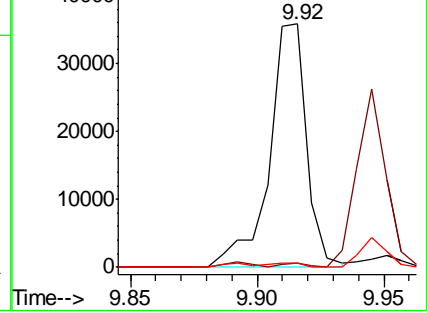
#51  
 2,6-Dinitrotoluene  
 Concen: 8.805 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. 0.21 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

Tgt Ion	Resp	Lower	Upper
165	100		
63	1.8	41.4	62.0#
89	1.6	42.9	64.3#

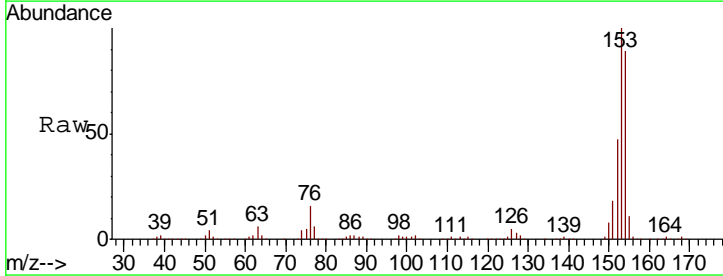


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

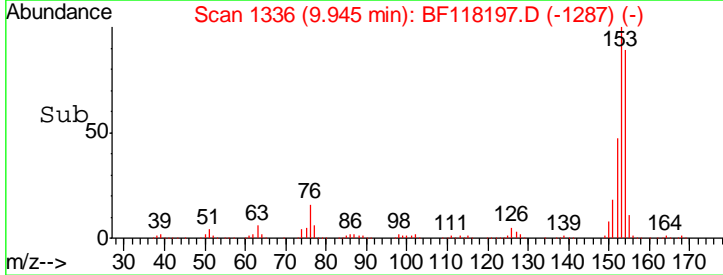
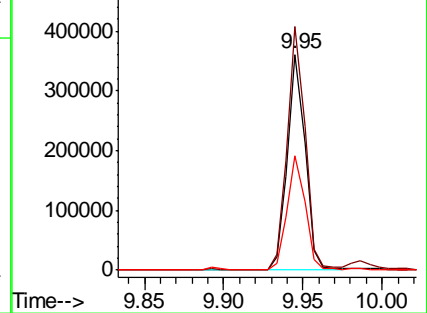


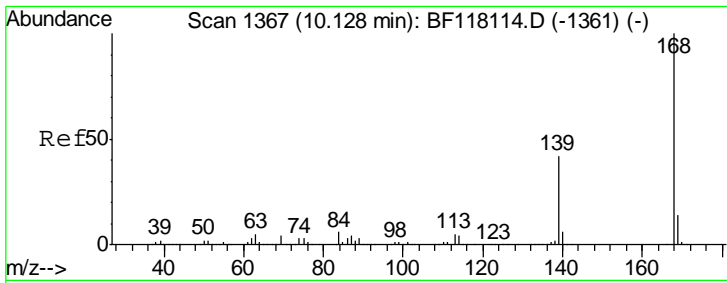
#52  
 Acenaphthene  
 Concen: 18.978 ng  
 RT: 9.95 min Scan# 1336  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
154	100		
153	112.8	91.8	137.6
152	53.2	43.3	64.9



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E

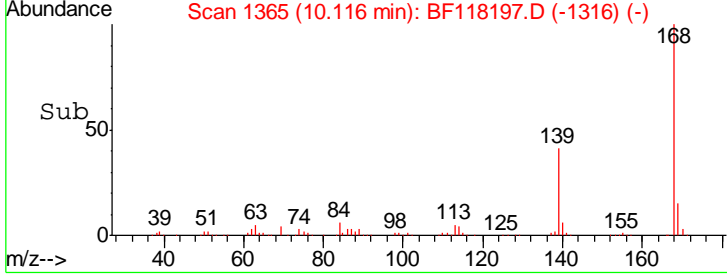
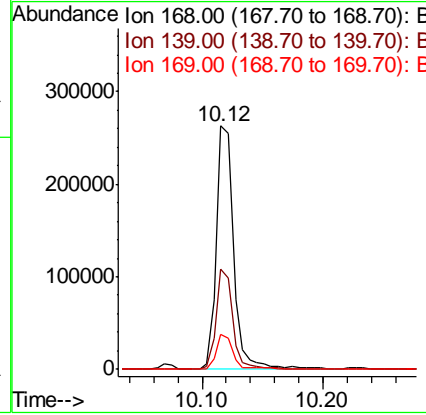
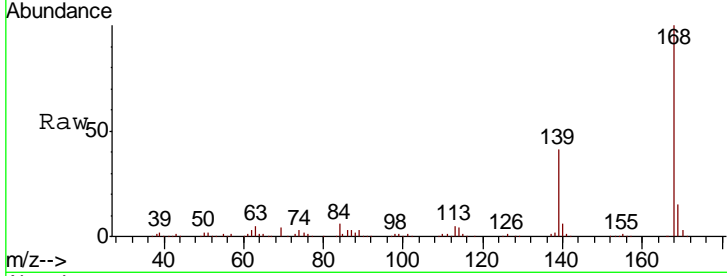




#55  
 Dibenzofuran  
 Concen: 11.863 ng  
 RT: 10.12 min Scan# 1365  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

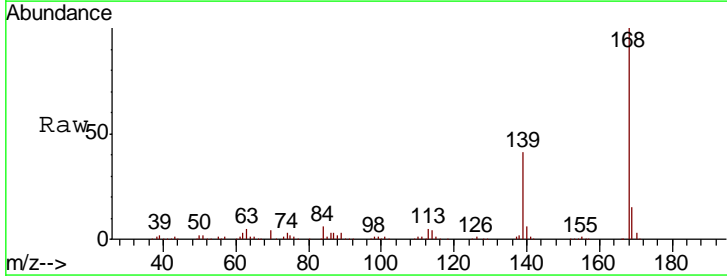
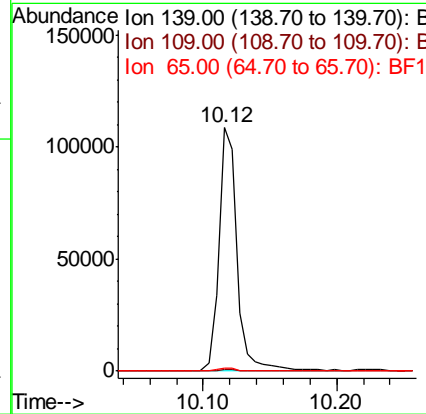
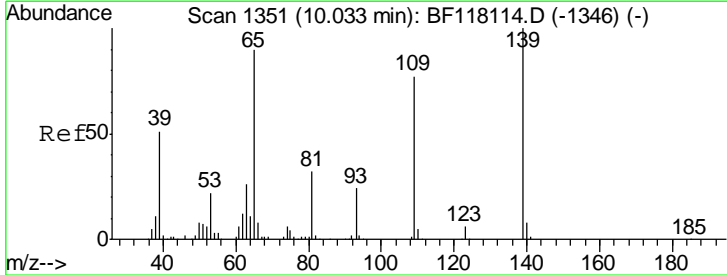
Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

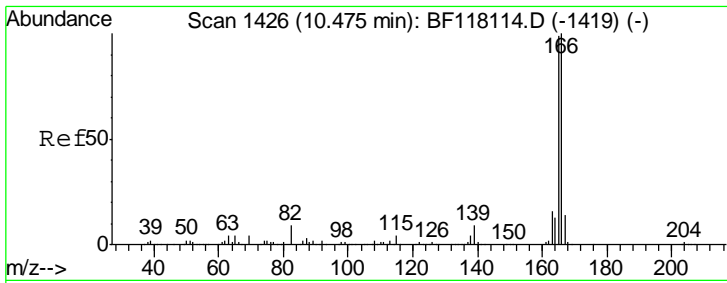
Tgt Ion	Resp	Lower	Upper
168	100		
139	41.3	33.4	50.0
169	14.6	11.0	16.6



#56  
 4-Nitrophenol  
 Concen: 30.465 ng  
 RT: 10.12 min Scan# 1365  
 Delta R.T. 0.08 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
139	100		
109	0.7	57.3	97.3#
65	1.2	70.2	110.2#

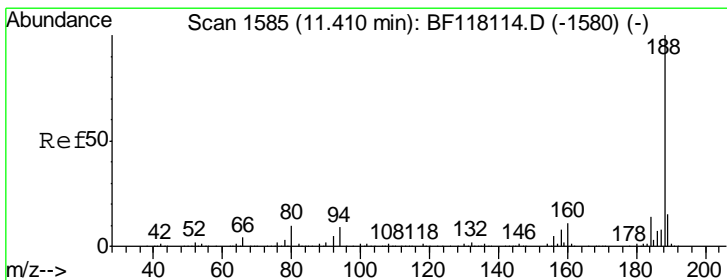
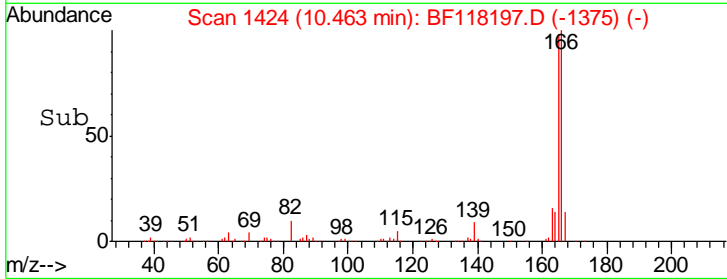
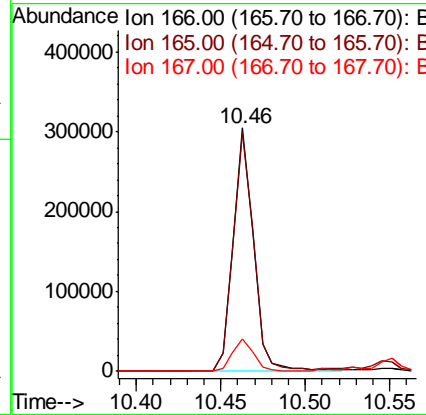
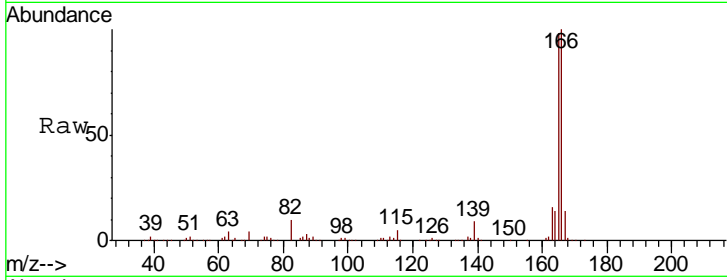




#58  
 Fluorene  
 Concen: 14.678 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

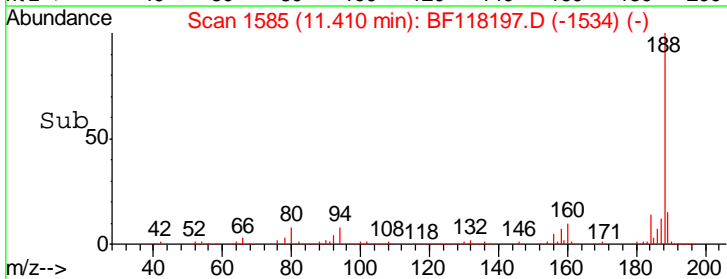
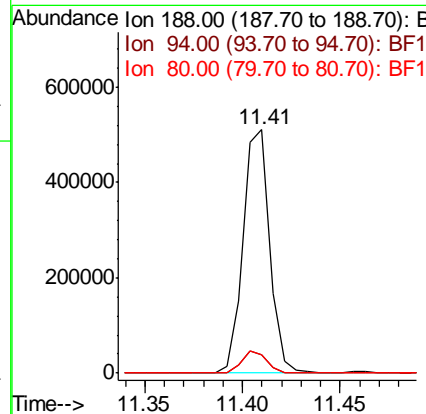
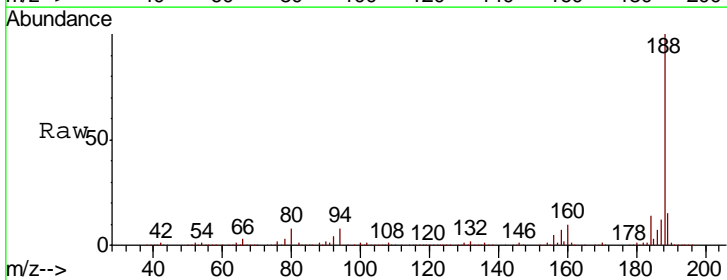
Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

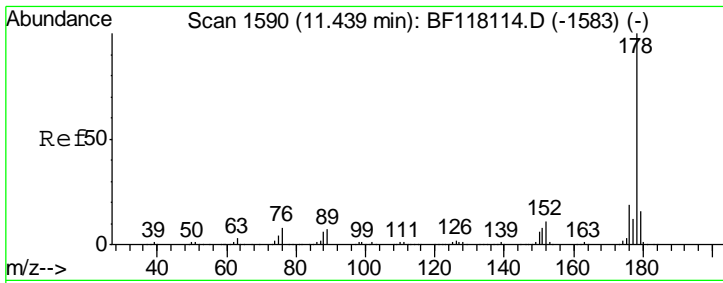
Tgt Ion	Resp	Lower	Upper
166	100		
165	97.9	79.0	118.4
167	13.6	10.9	16.3



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.00 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
188	100		
94	7.5	7.1	10.7
80	7.5	7.9	11.9#



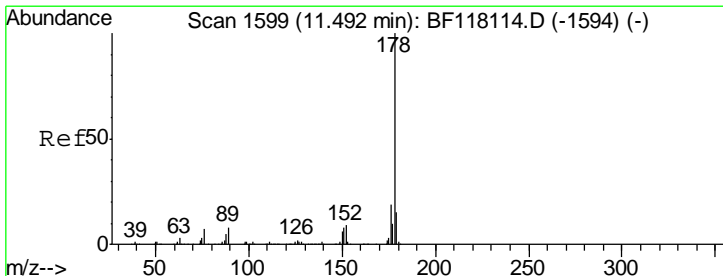
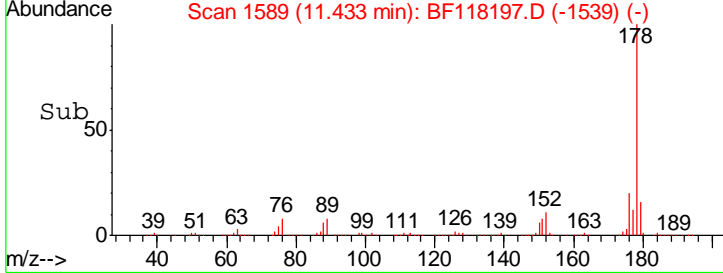
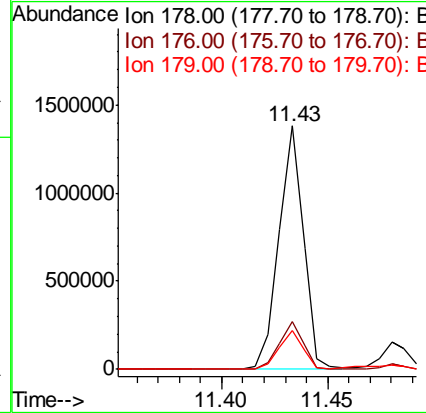
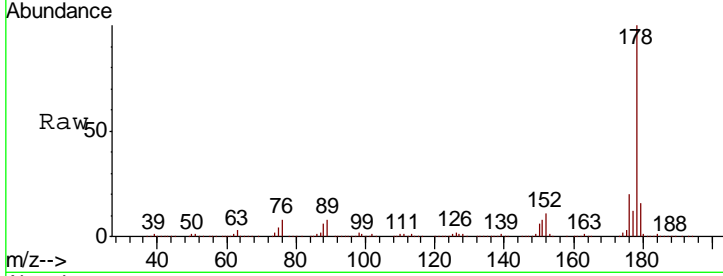


#71  
 Phenanthrene  
 Concen: 43.536 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

Tgt Ion:178 Resp: 1118734

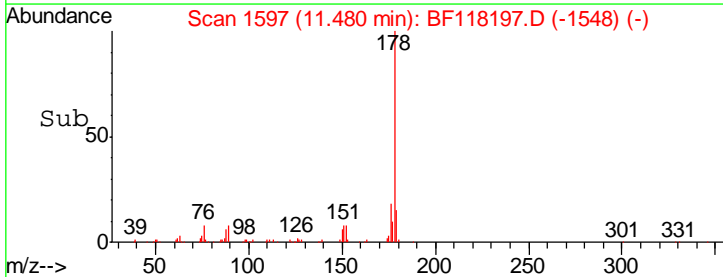
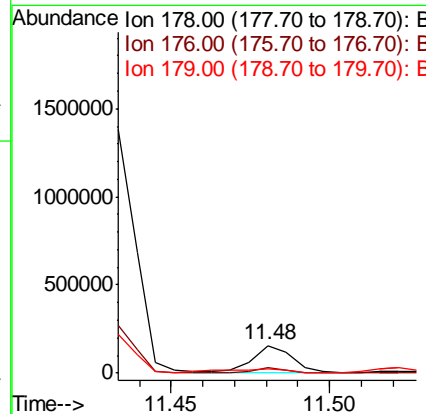
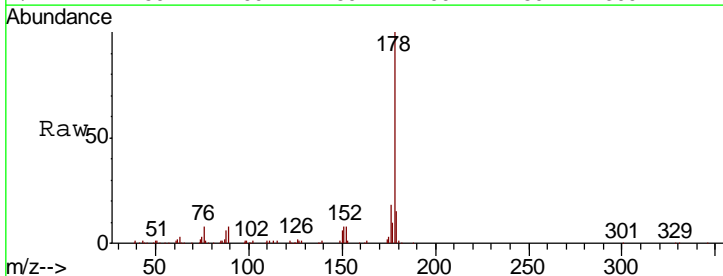
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	16.0	12.6	18.8

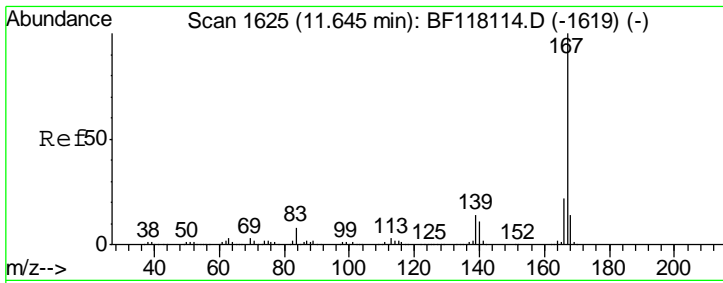


#72  
 Anthracene  
 Concen: 5.119 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion:178 Resp: 131217

Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.0	22.6
179	15.5	12.2	18.4

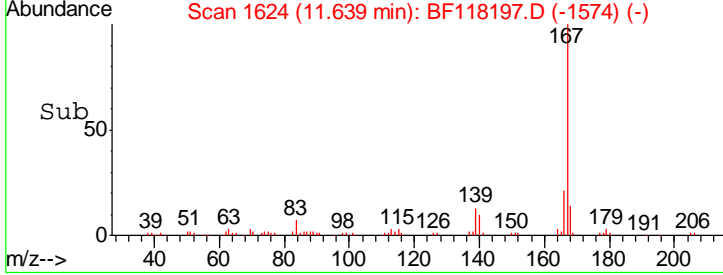
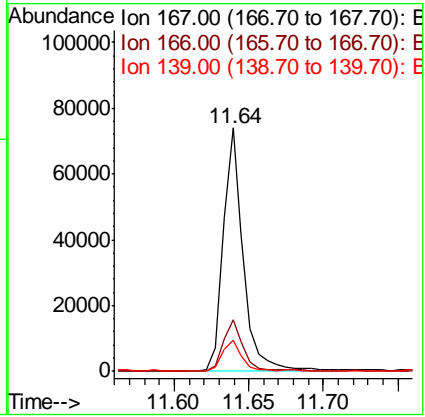
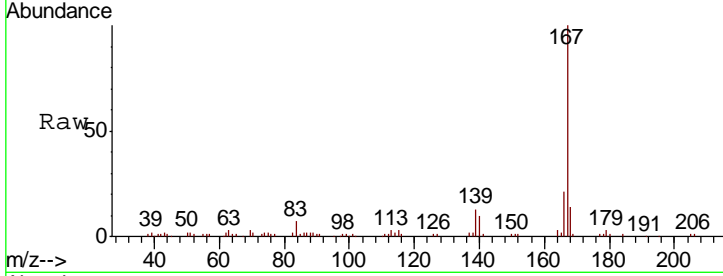




#73  
 Carbazole  
 Concen: 3.063 ng  
 RT: 11.64 min Scan# 1624  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

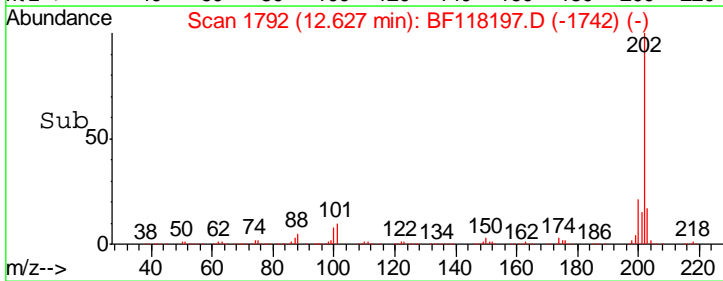
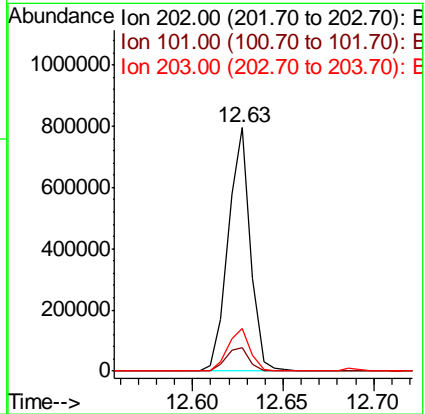
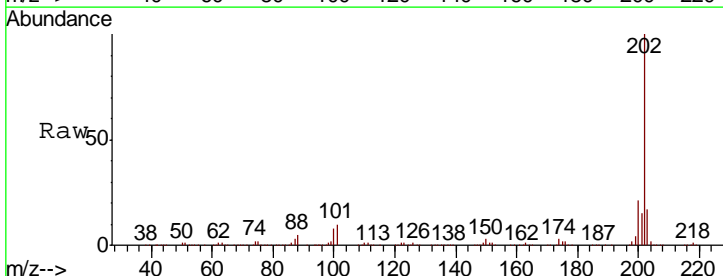
Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

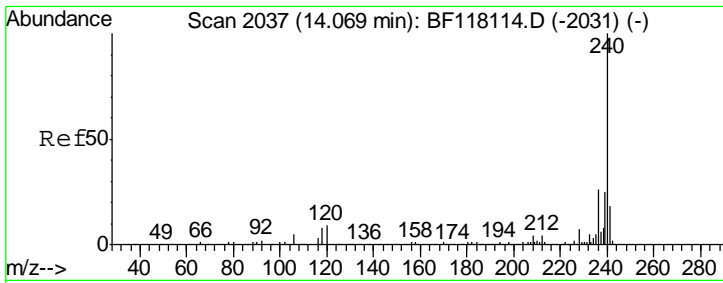
Tgt Ion	Resp	Lower	Upper
167	100		
166	20.9	17.4	26.2
139	13.0	11.4	17.0



#75  
 Fluoranthene  
 Concen: 25.819 ng  
 RT: 12.63 min Scan# 1792  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
202	100		
101	9.9	0.0	30.4
203	17.4	0.0	37.2

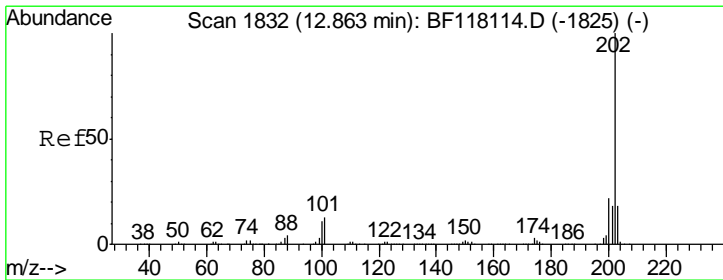
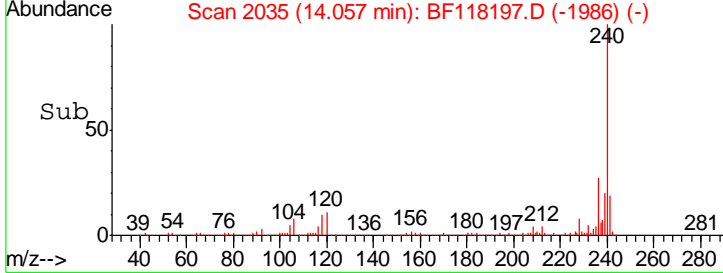
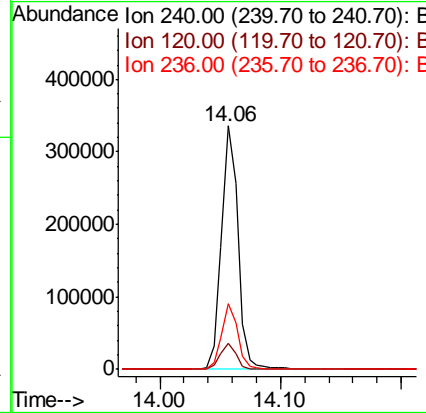
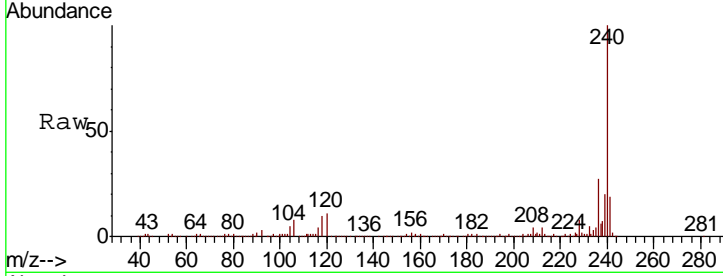




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.06 min Scan# 2035  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

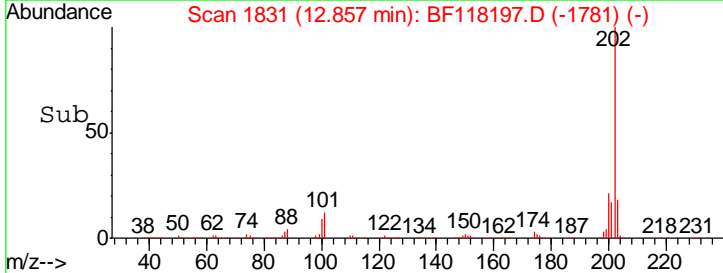
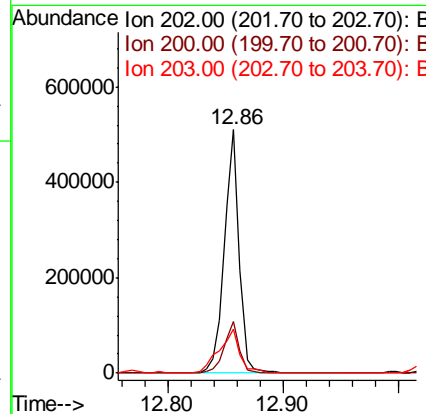
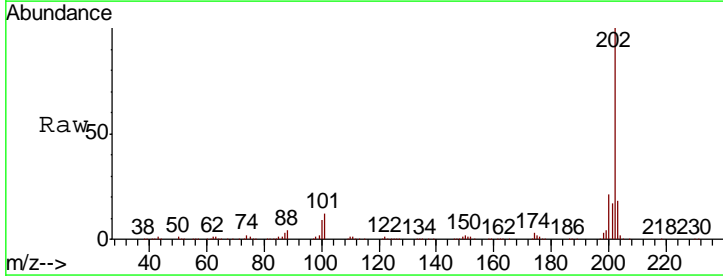
Instrument :  
 BNA\_F  
 ClientSampleID :  
 RBR200059DL

Tgt Ion	Resp	Lower	Upper
240	314779		
120	10.8	7.1	10.7#
236	26.8	21.0	31.6

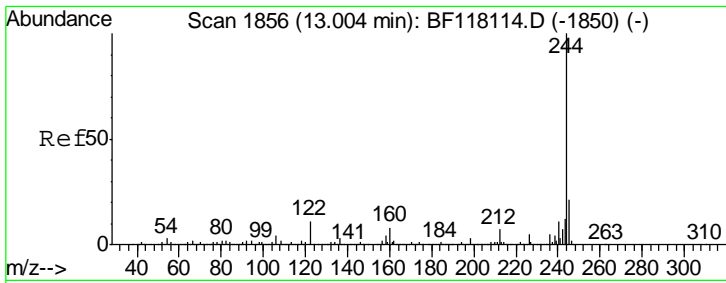


#78  
 Pyrene  
 Concen: 18.284 ng  
 RT: 12.86 min Scan# 1831  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
202	453548		
200	21.2	17.5	26.3
203	17.8	14.6	21.8







#79

Terphenyl-d14

Concen: 34.250 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF118197.D

Acq: 13 Dec 2019 20:24

Instrument :

BNA\_F

ClientSampleId :

RBR200059DL

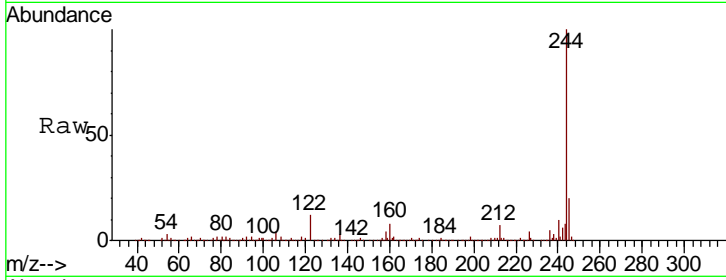
Tgt Ion:244 Resp: 626950

Ion Ratio Lower Upper

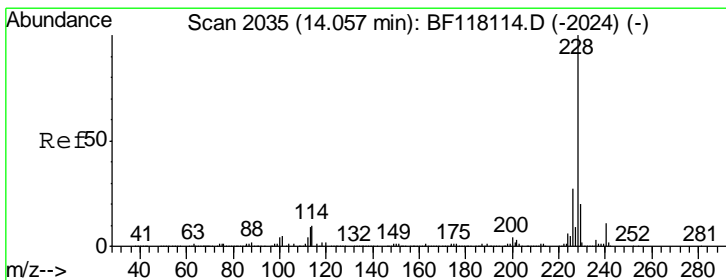
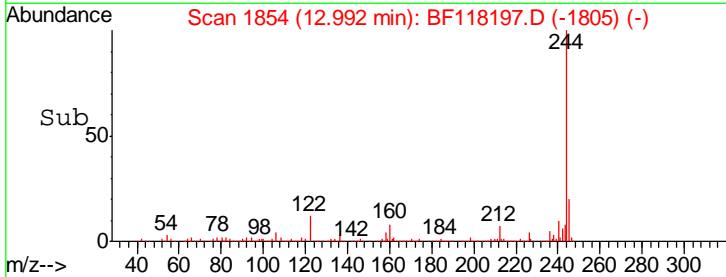
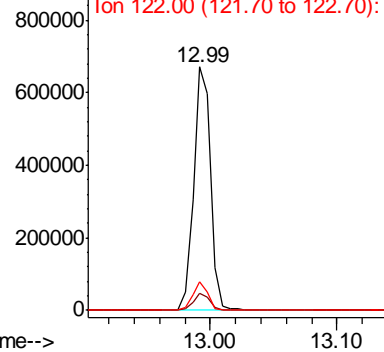
244 100

212 6.9 5.9 8.9

122 11.7 9.0 13.6



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: 4.319 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF118197.D

Acq: 13 Dec 2019 20:24

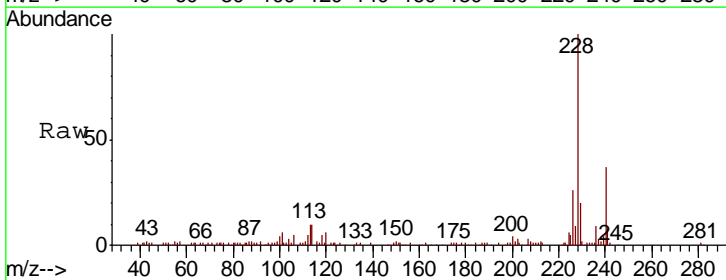
Tgt Ion:228 Resp: 94008

Ion Ratio Lower Upper

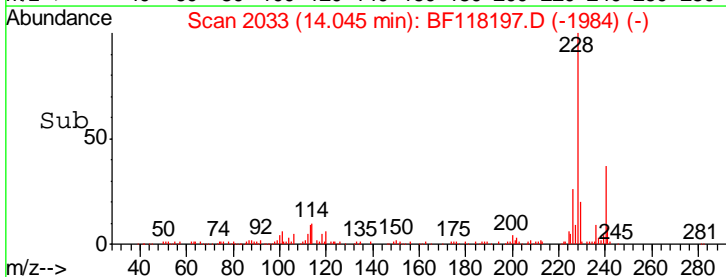
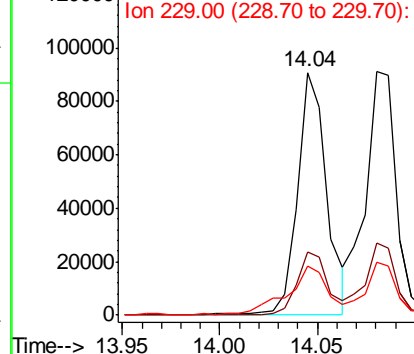
228 100

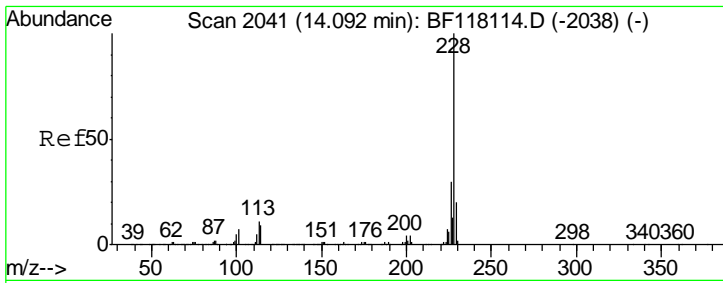
226 26.3 21.8 32.8

229 20.5 15.8 23.8



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

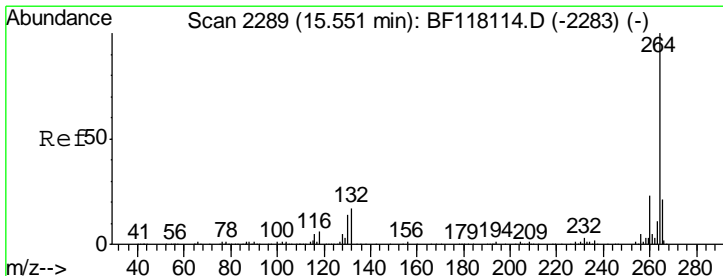
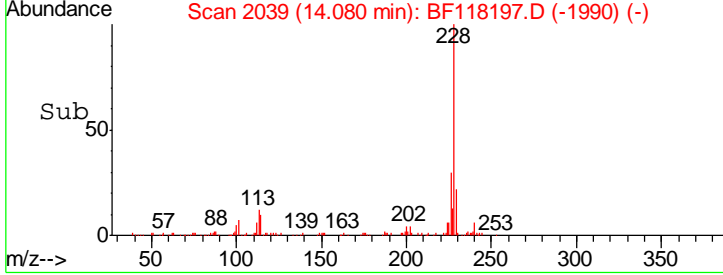
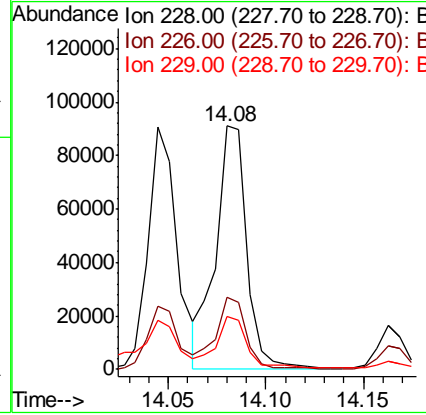
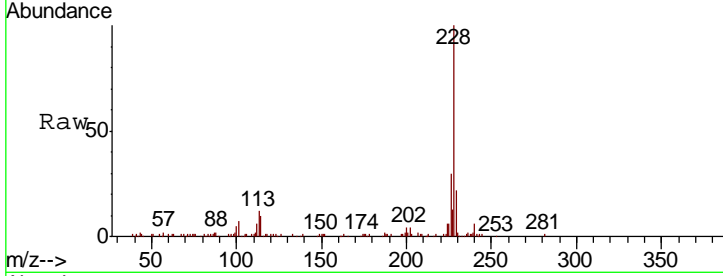




#83  
 Chrysene  
 Concen: 4.852 ng  
 RT: 14.08 min Scan# 2039  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

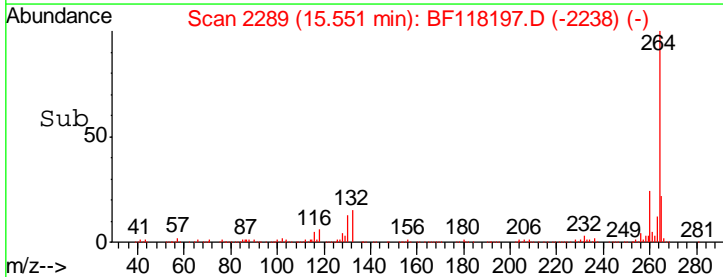
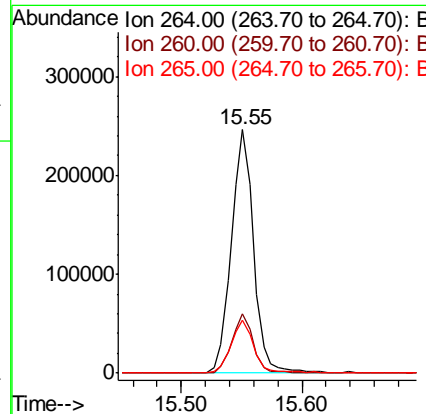
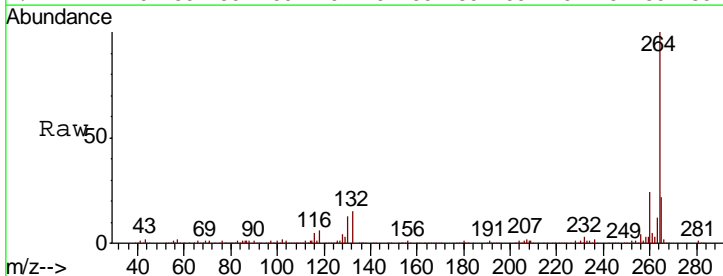
Instrument : BNA\_F  
 ClientSampleID : RBR200059DL

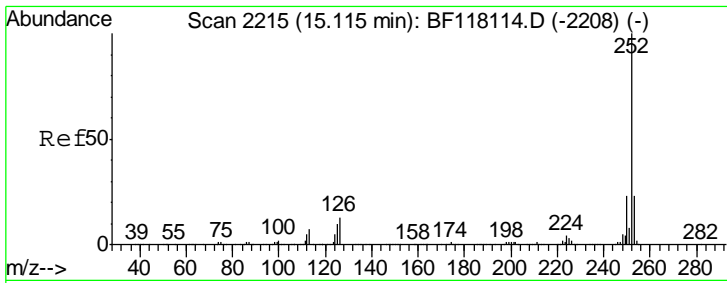
Tgt Ion	Resp	Lower	Upper
228	100873		
226	29.7	23.8	35.8
229	21.9	15.7	23.5



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.55 min Scan# 2289  
 Delta R.T. -0.00 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
264	316243		
260	24.2	18.6	28.0
265	21.9	16.8	25.2

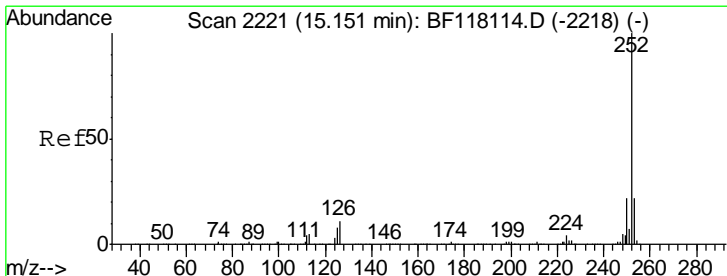
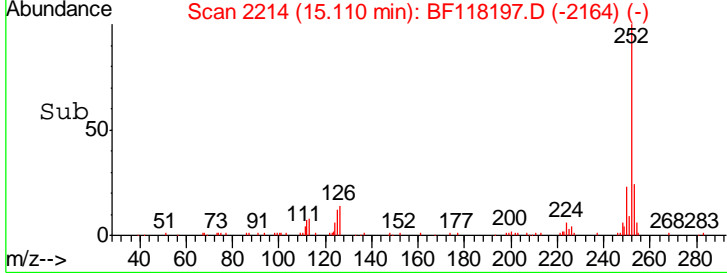
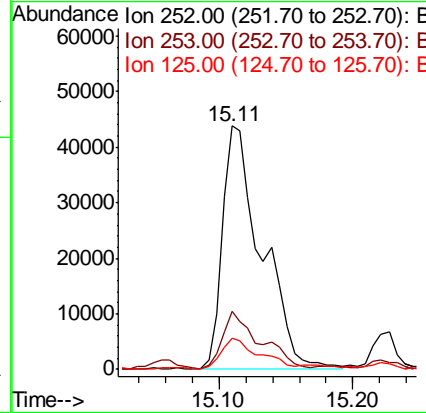
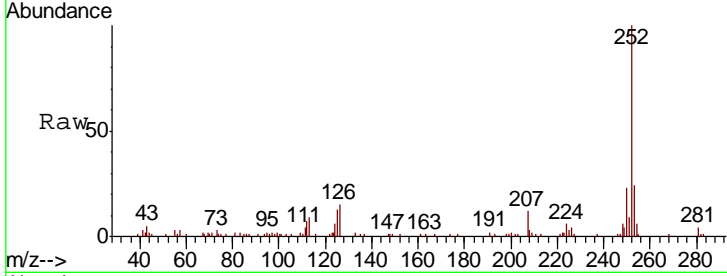




#88  
 Benzo(b)fluoranthene  
 Concen: 4.311 ng  
 RT: 15.11 min Scan# 2214  
 Delta R.T. -0.01 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Instrument : BNA\_F  
 ClientSampleId : RBR200059DL

Tgt Ion	Resp	Lower	Upper
252	100		
253	23.7	18.2	27.4
125	13.0	8.3	12.5#



#89  
 Benzo(k)fluoranthene  
 Concen: 4.488 ng  
 RT: 15.11 min Scan# 2214  
 Delta R.T. -0.04 min  
 Lab File: BF118197.D  
 Acq: 13 Dec 2019 20:24

Tgt Ion	Resp	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	13.0	6.7	10.1#

