

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030619\
 Data File : BF112912.D
 Acq On : 7 Mar 2019 5:44
 Operator : JU/SJ
 Sample : K1705-13
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW024-022719

Quant Time: Mar 07 06:39:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	217264	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	686057	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	302770	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	591929	20.00	ng	0.00
76) Chrysene-d12	13.86	240	597401	20.00	ng	-0.01
87) Perylene-d12	15.27	264	439518	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.35	112	1159183	82.99	ng	0.00
7) Phenol-d6	6.37	99	1427147	81.34	ng	0.00
23) Nitrobenzene-d5	7.29	82	846673	73.85	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	346305	107.74	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	1321062	68.74	ng	-0.01
79) Terphenyl-d14	12.82	244	1349897	43.80	ng	-0.01

Target Compounds

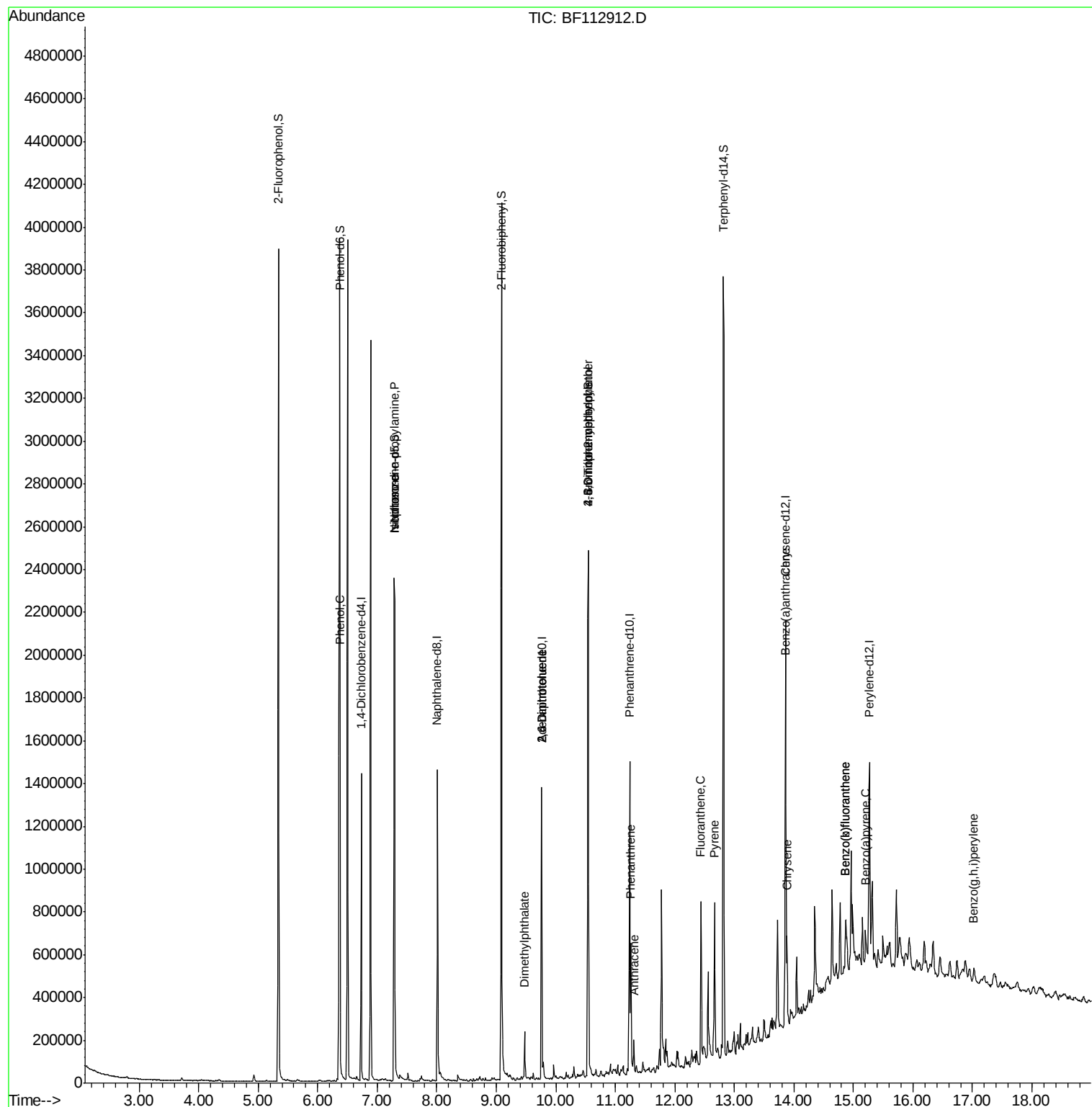
						Qvalue
10) Phenol	6.38	94	48308	2.360	ng	88
19) n-Nitroso-di-n-propylamine	7.29	70	110183	9.916	ng	# 76
25) Isophorone	7.29	82	843466	34.148	ng	# 66
50) Dimethylphthalate	9.48	163	88694	3.973	ng	98
51) 2,6-Dinitrotoluene	9.76	165	40016	8.608	ng	# 18
57) 2,4-Dinitrotoluene	9.76	165	40017	6.925	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.54	198	646	4.853	ng	# 1
67) 4-Bromophenyl-phenylether	10.55	248	19697	3.159	ng	# 1
71) Phenanthrene	11.26	178	222303	7.548	ng	99
72) Anthracene	11.31	178	62418	2.025	ng	96
75) Fluoranthene	12.44	202	325624	10.320	ng	95
78) Pyrene	12.67	202	293060	5.819	ng	98
81) Benzo(a)anthracene	13.85	228	165252	3.991	ng	98
83) Chrysene	13.89	228	149761	3.693	ng	96
88) Benzo(b)fluoranthene	14.87	252	182482	6.419	ng	# 94
89) Benzo(k)fluoranthene	14.87	252	182482	7.086	ng	# 94
90) Benzo(a)pyrene	15.21	252	88340	3.513	ng	98
92) Benzo(g,h,i)perylene	17.03	276	60529	2.809	ng	97

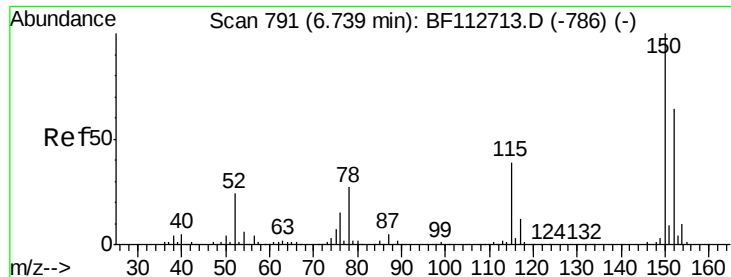
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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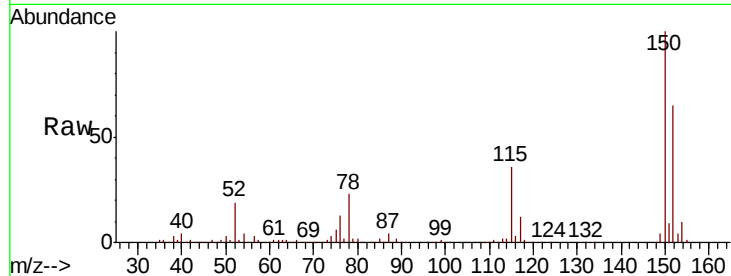


#1

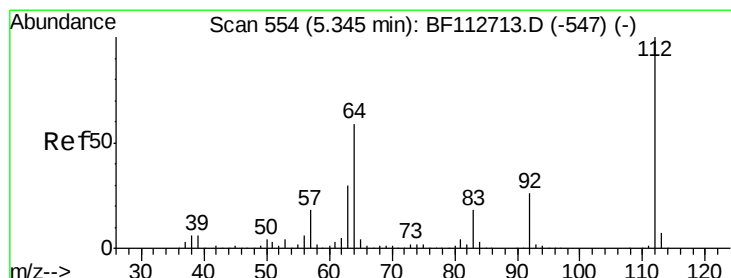
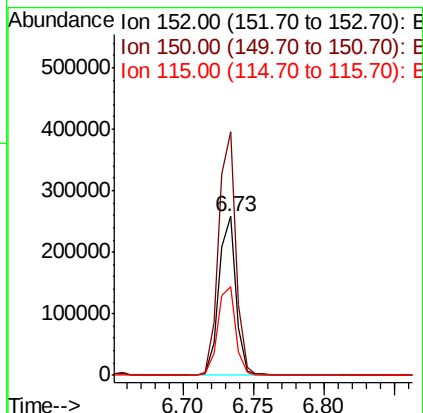
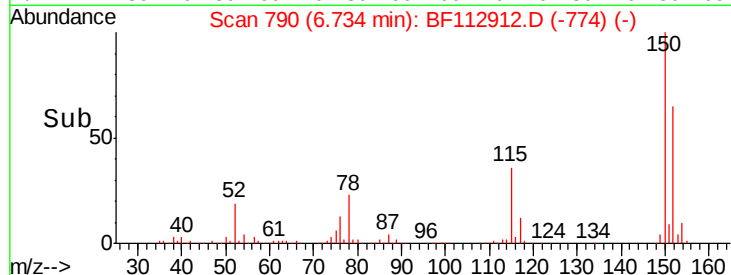
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 790
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW024-022719

Tgt Ion:152 Resp: 217264
Ion Ratio Lower Upper
152 100
150 153.4 124.2 186.2
115 55.6 48.2 72.4



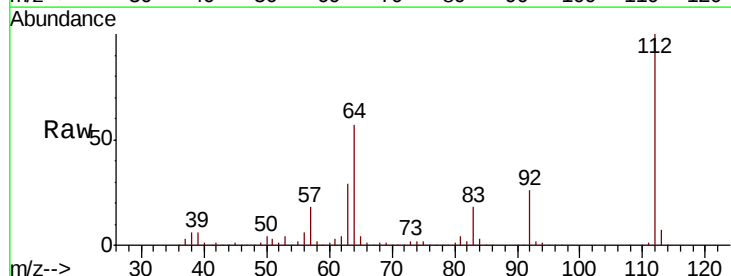
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



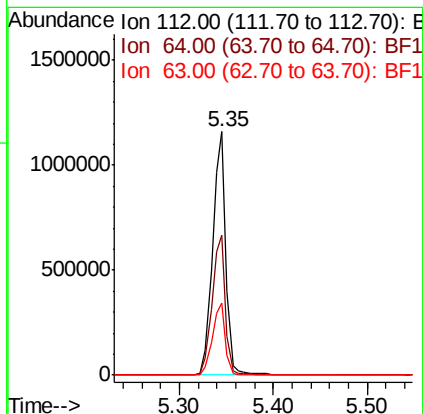
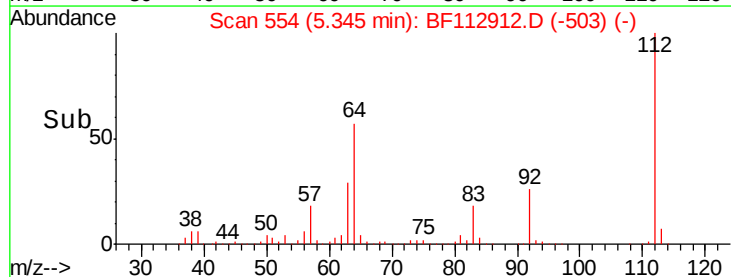
#5

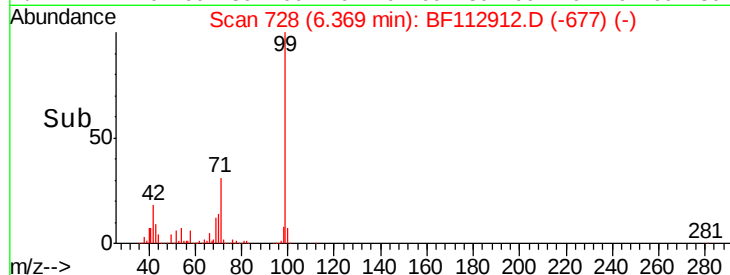
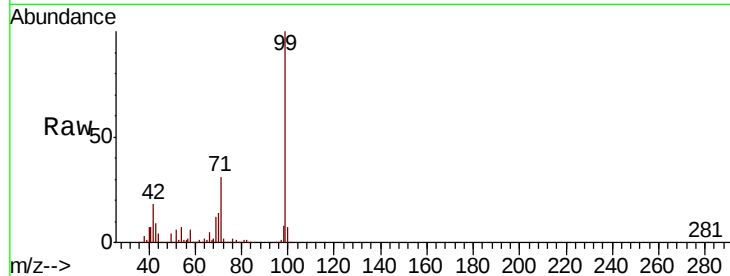
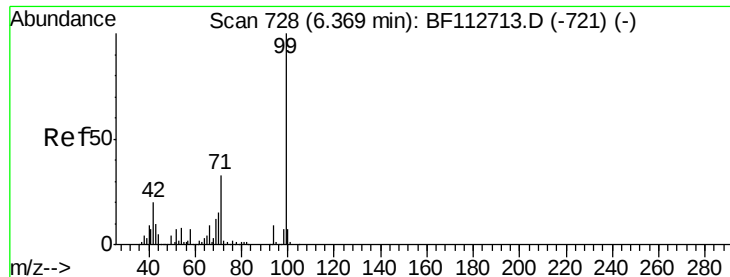
2-Fluorophenol
Concen: 82.994 ng
RT: 5.35 min Scan# 554
Delta R.T. -0.00 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion:112 Resp: 1159183
Ion Ratio Lower Upper
112 100
64 57.3 47.6 71.4
63 29.5 24.4 36.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 81.342 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW024-022719

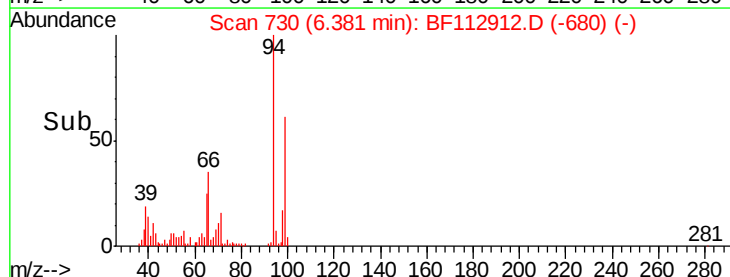
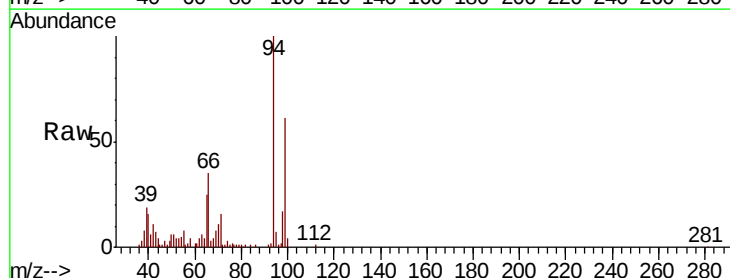
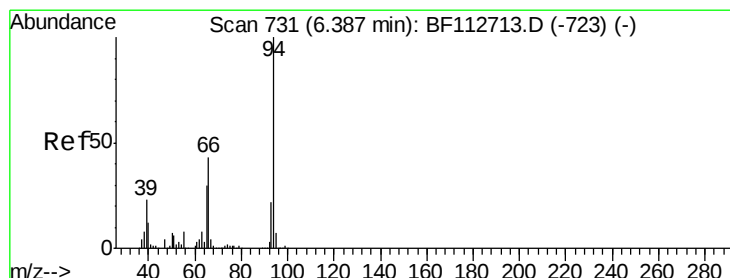
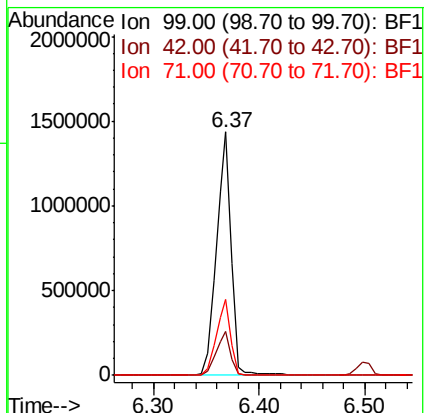
Tgt Ion: 99 Resp: 1427147

Ion Ratio Lower Upper

99 100

42 18.1 16.3 24.5

71 31.3 26.2 39.4



#10

Phenol

Concen: 2.360 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

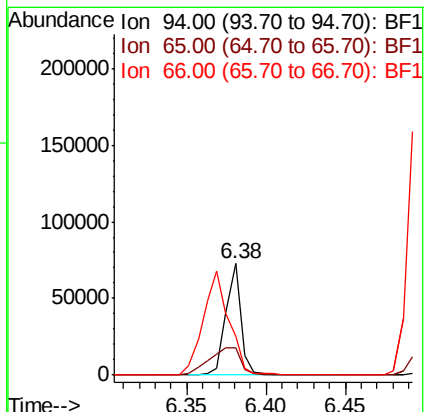
Tgt Ion: 94 Resp: 48308

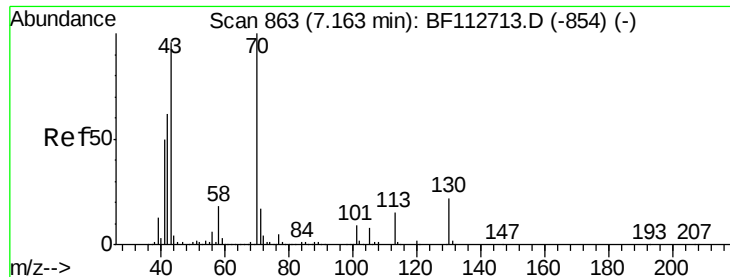
Ion Ratio Lower Upper

94 100

65 24.6 10.5 50.5

66 35.0 22.6 62.6

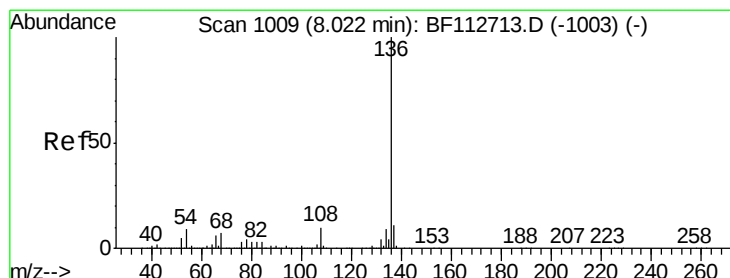
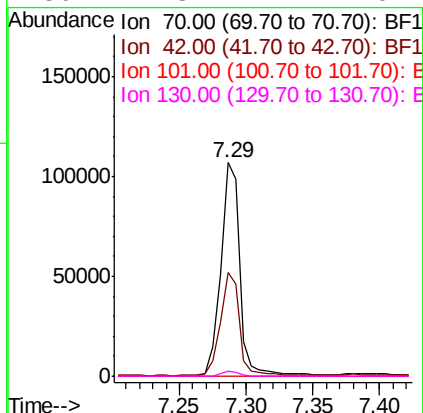
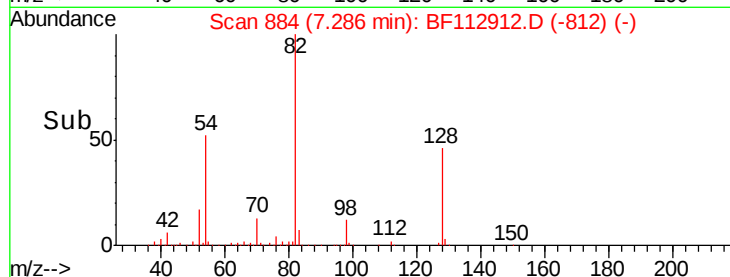
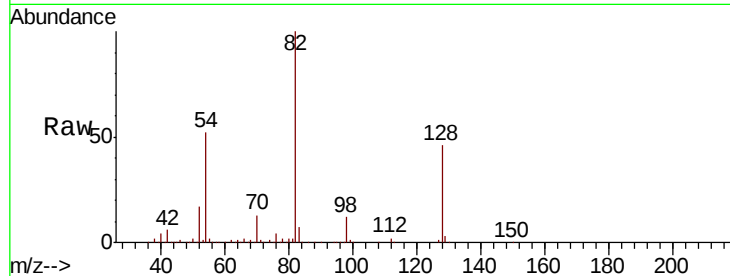




#19
n-Nitroso-di-n-propylamine
Concen: 9.916 ng
RT: 7.29 min Scan# 884
Delta R.T. 0.12 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

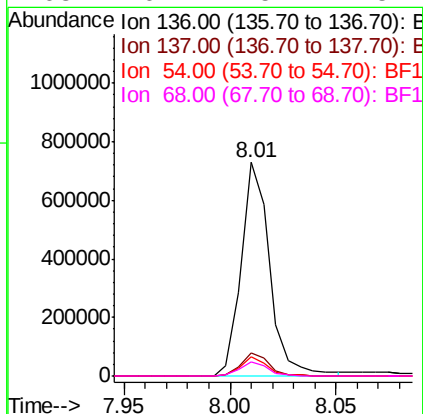
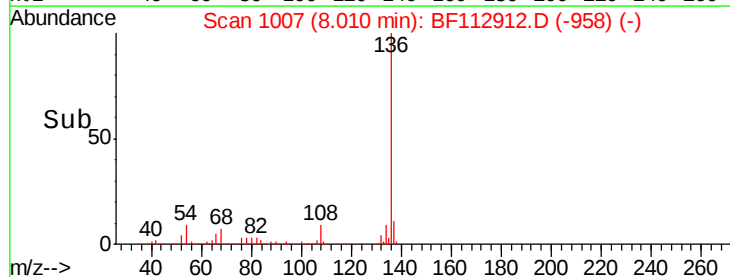
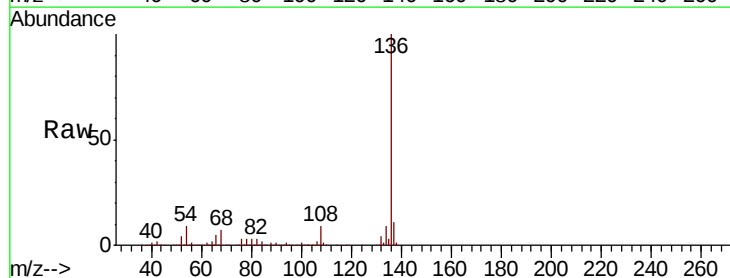
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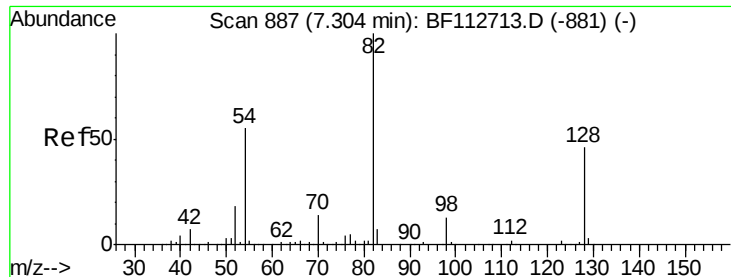
Tgt Ion: 70 Resp: 110183
Ion Ratio Lower Upper
70 100
42 48.6 49.9 74.9#
101 0.0 7.4 11.2#
130 2.3 17.4 26.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion: 136 Resp: 686057
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 8.8 7.3 10.9
68 6.7 5.4 8.2

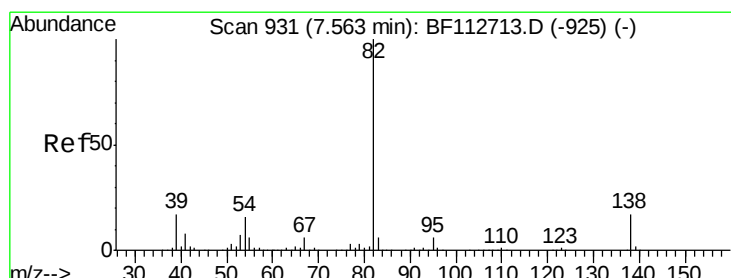
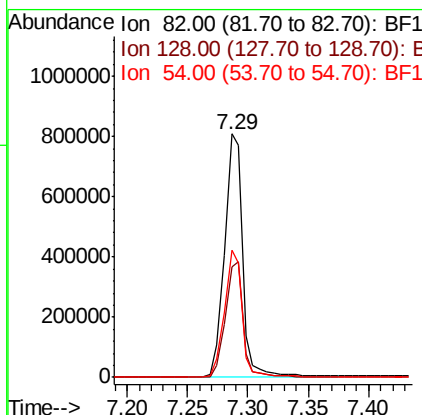
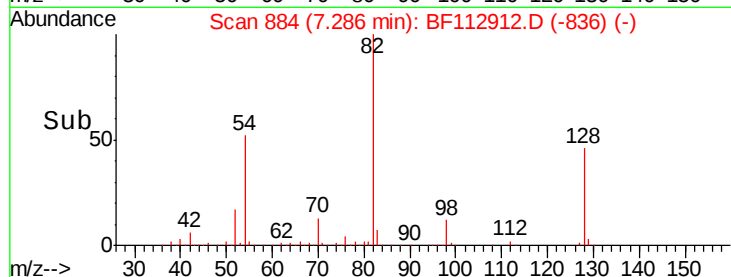
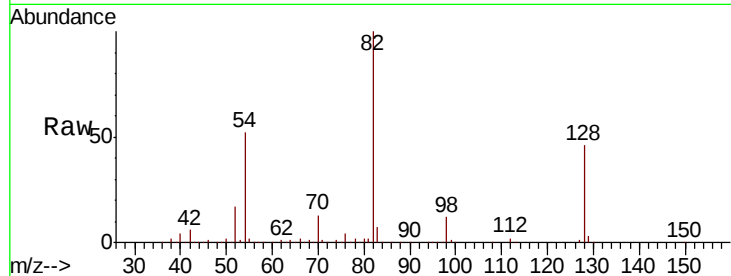




#23
 Nitrobenzene-d5
 Concen: 73.847 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.02 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

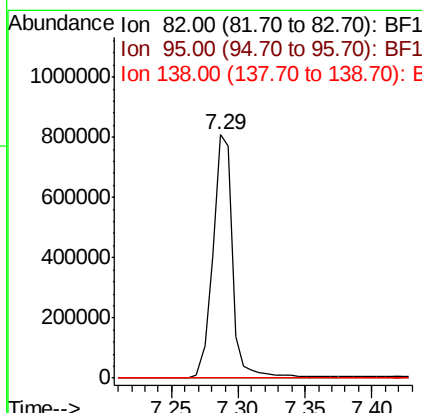
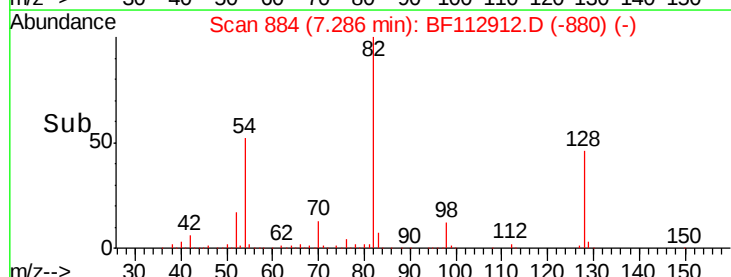
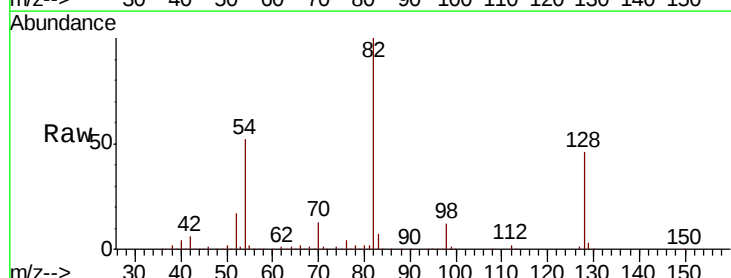
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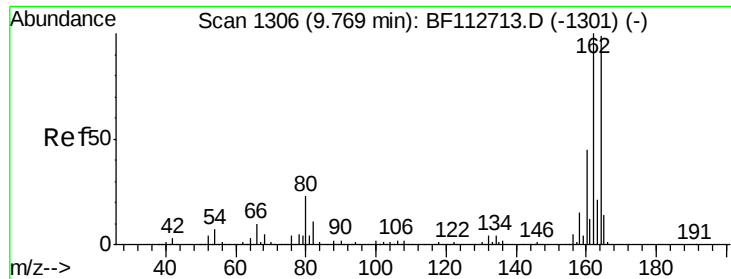
Tgt Ion: 82 Resp: 846673
 Ion Ratio Lower Upper
 82 100
 128 45.6 36.3 54.5
 54 52.3 43.7 65.5



#25
 Isophorone
 Concen: 34.148 ng
 RT: 7.29 min Scan# 884
 Delta R.T. -0.28 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

Tgt Ion: 82 Resp: 843466
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.2 7.8#
 138 0.0 13.8 20.8#

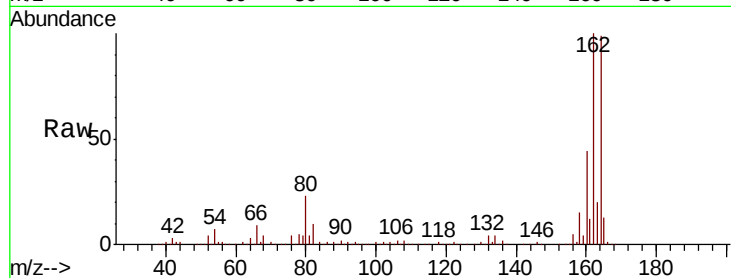




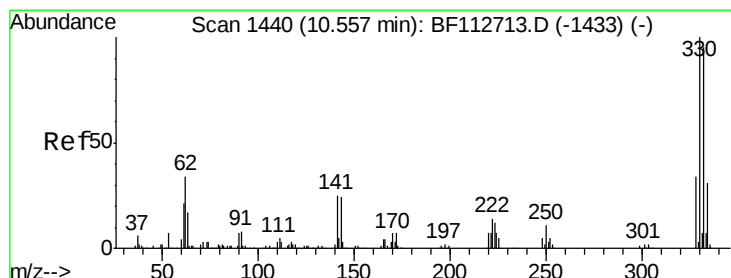
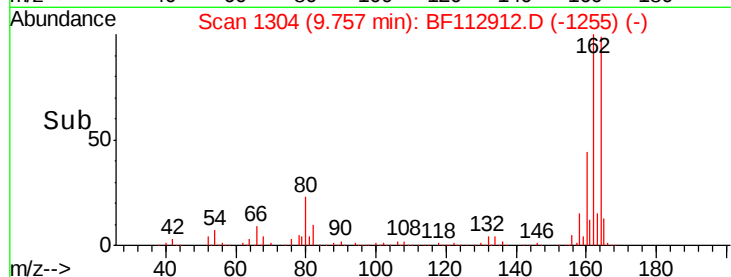
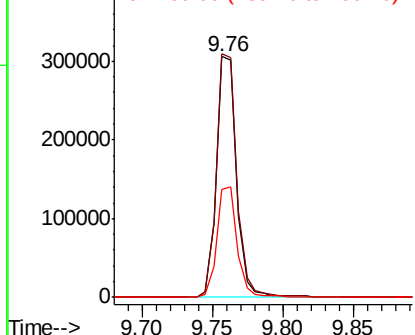
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Instrument :
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ClientSampleId :
EXT-027-SW024-022719

Tgt Ion:164 Resp: 302770
Ion Ratio Lower Upper
164 100
162 101.0 80.6 120.8
160 44.7 36.0 54.0

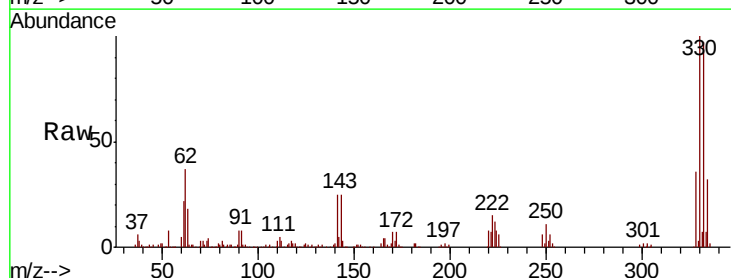


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

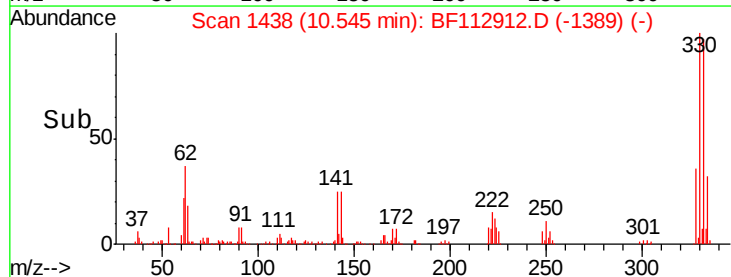
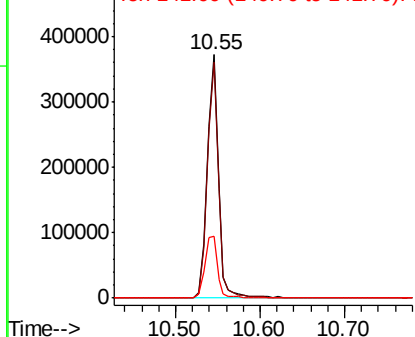


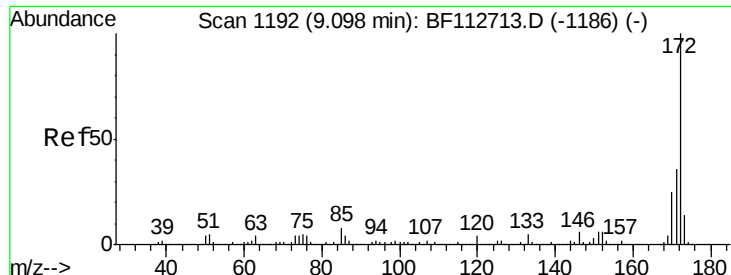
#42
2,4,6-Tribromophenol
Concen: 107.739 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion:330 Resp: 346305
Ion Ratio Lower Upper
330 100
332 96.9 76.2 114.4
141 29.0 27.0 40.6



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

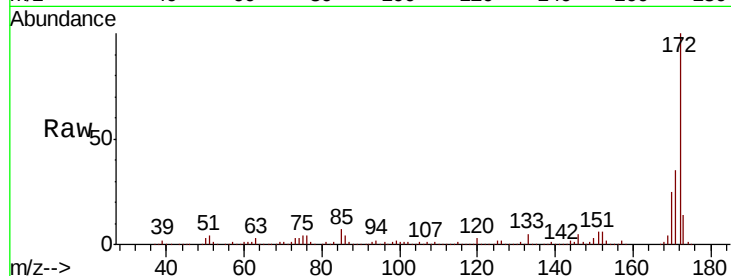




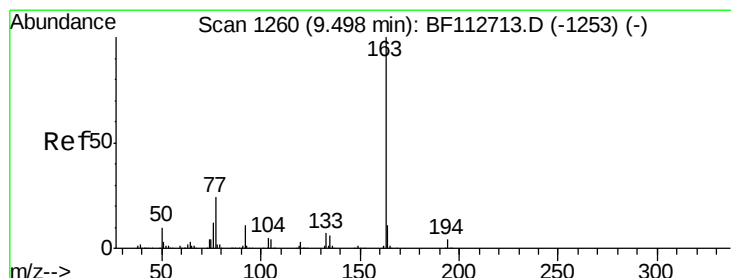
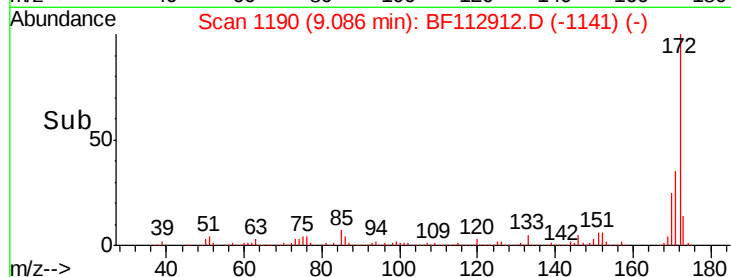
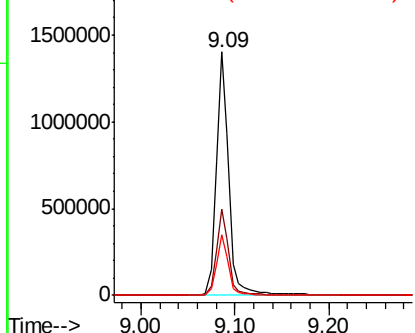
#45
2-Fluorobiphenyl
Concen: 68.735 ng
RT: 9.09 min Scan# 1190
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Instrument :
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EXT-027-SW024-022719

Tgt Ion:172 Resp: 1321062
Ion Ratio Lower Upper
172 100
171 35.4 29.0 43.4
170 24.6 20.0 30.0

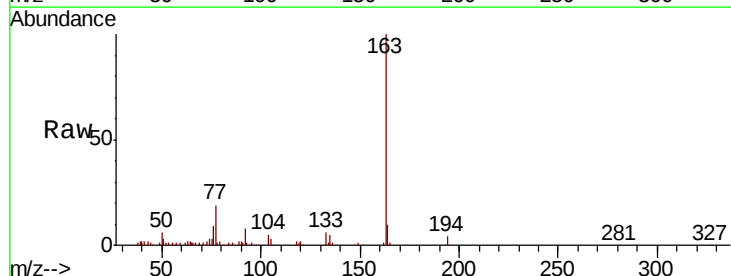


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

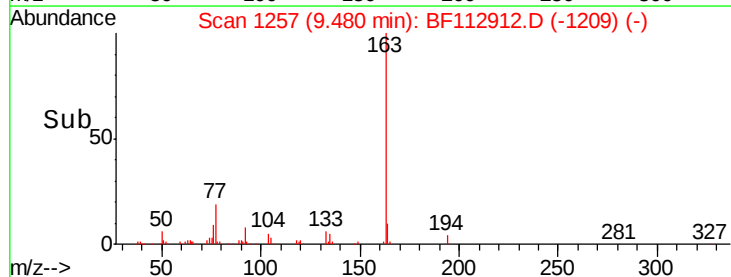
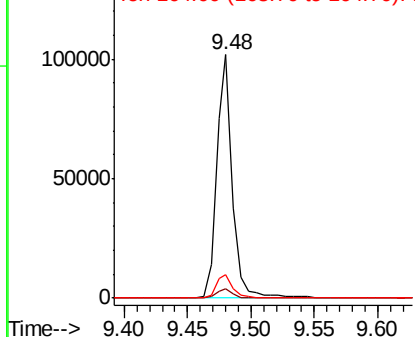


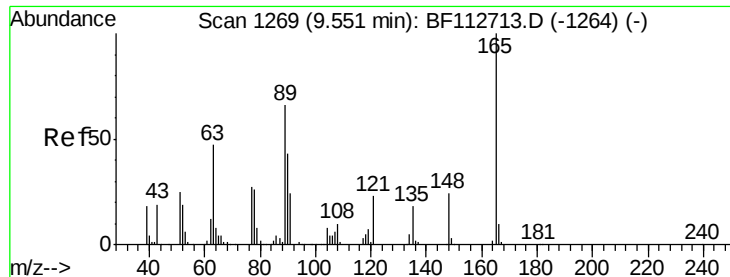
#50
Dimethylphthalate
Concen: 3.973 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion:163 Resp: 88694
Ion Ratio Lower Upper
163 100
194 3.9 3.0 4.4
164 9.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

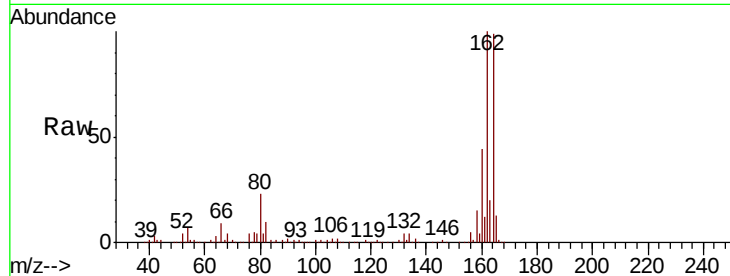




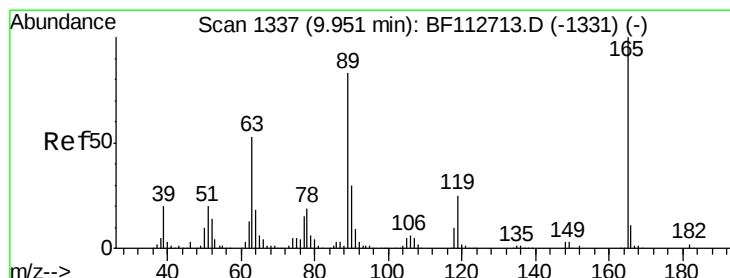
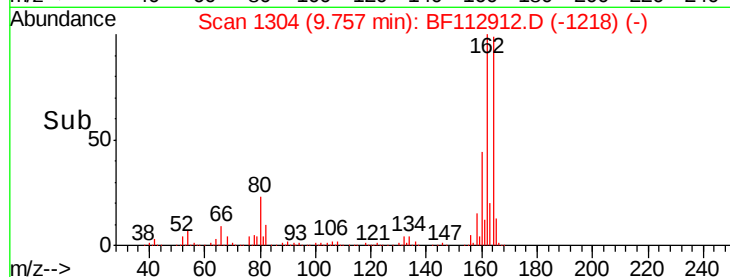
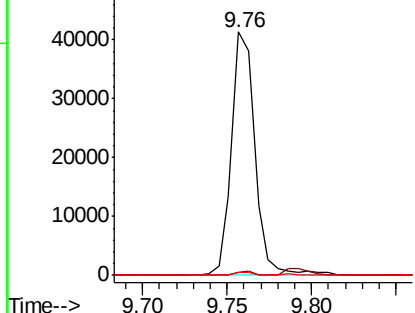
#51
 2,6-Dinitrotoluene
 Concen: 8.608 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.21 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW024-022719

Tgt Ion:165 Resp: 40016
 Ion Ratio Lower Upper
 165 100
 63 1.4 54.1 81.1#
 89 1.1 52.8 79.2#



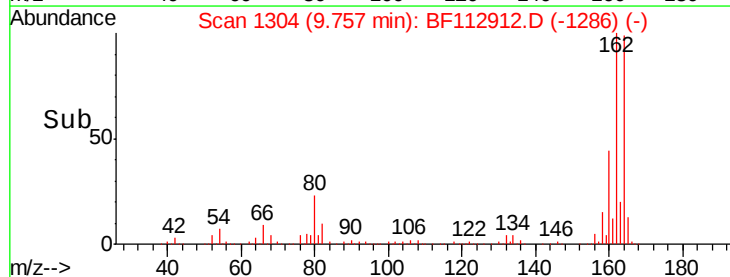
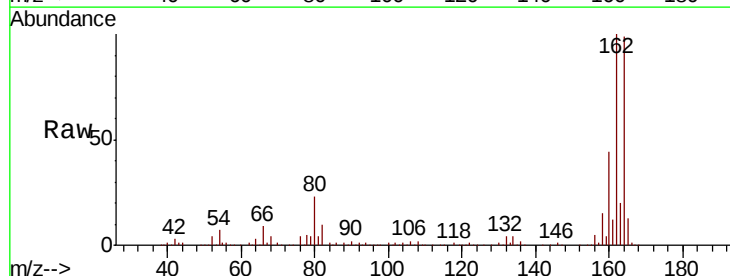
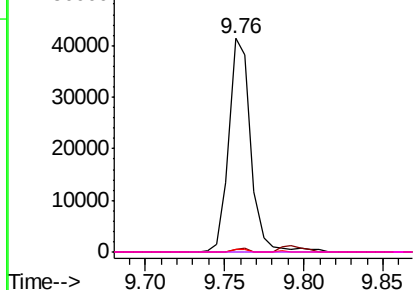
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

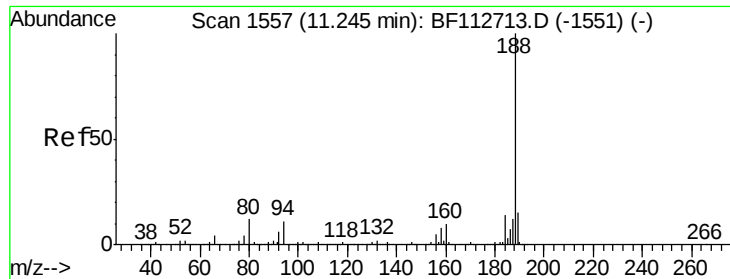


#57
 2,4-Dinitrotoluene
 Concen: 6.925 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.19 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

Tgt Ion:165 Resp: 40017
 Ion Ratio Lower Upper
 165 100
 63 1.4 42.2 63.2#
 89 1.1 66.2 99.4#
 182 0.0 1.8 2.6#

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
 Ion 182.00 (181.70 to 182.70): E

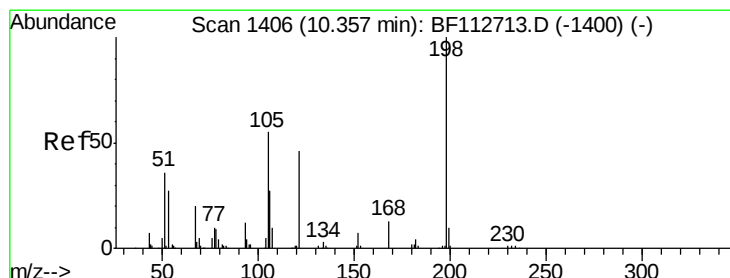
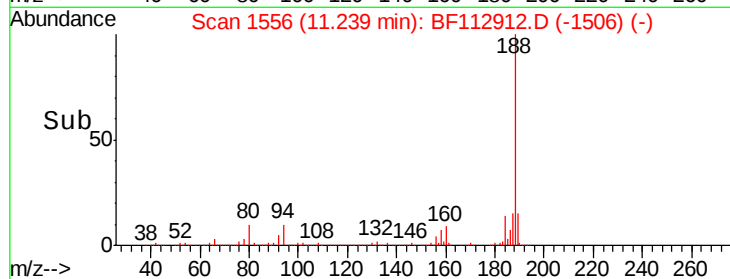
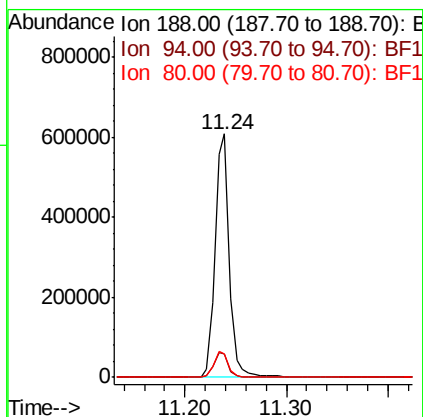
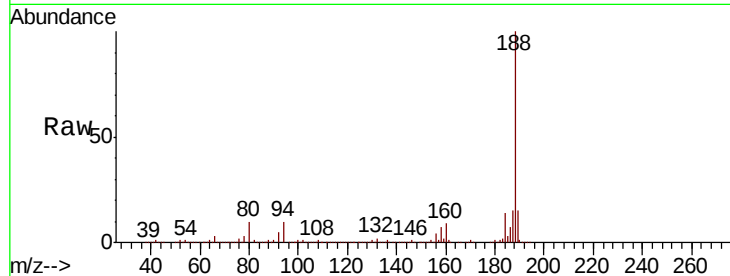




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

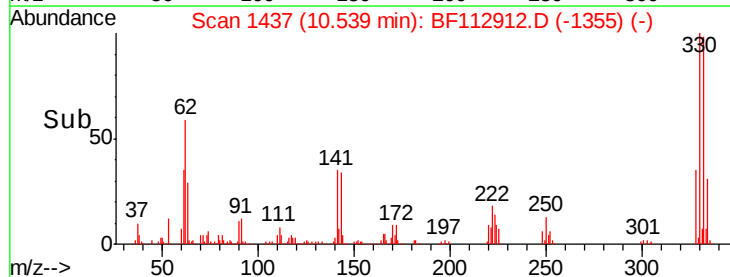
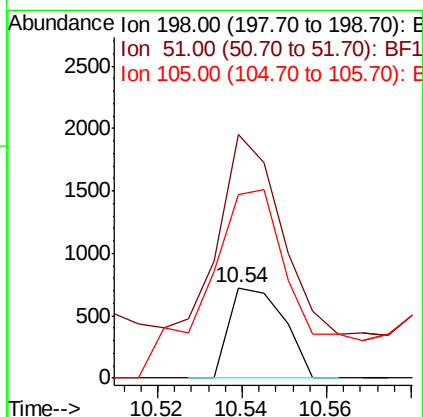
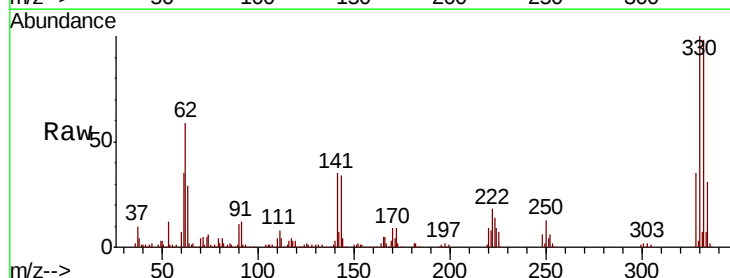
Instrument :
BNA_F
ClientSampleId :
EXT-027-SW024-022719

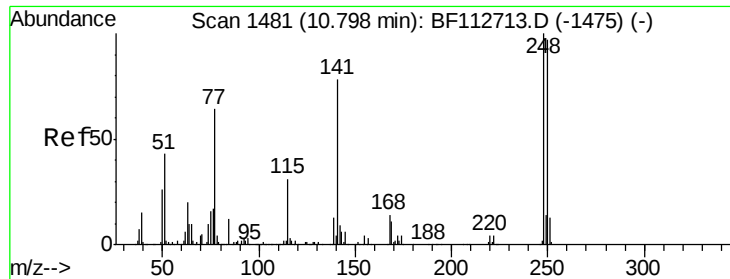
Tgt Ion:188 Resp: 591929
Ion Ratio Lower Upper
188 100
94 9.5 9.0 13.4
80 9.5 9.2 13.8



#65
4,6-Dinitro-2-methylphenol
Concen: 4.853 ng
RT: 10.54 min Scan# 1437
Delta R.T. 0.18 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion:198 Resp: 646
Ion Ratio Lower Upper
198 100
51 269.6 43.8 83.8#
105 203.5 36.5 76.5#

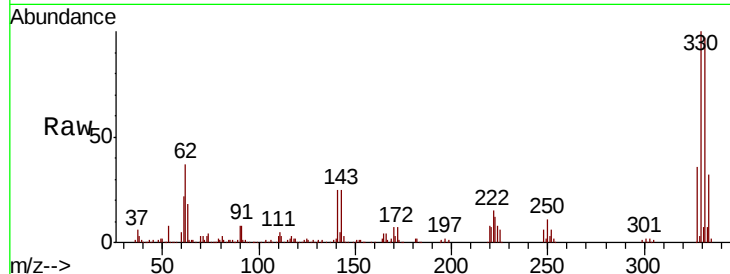




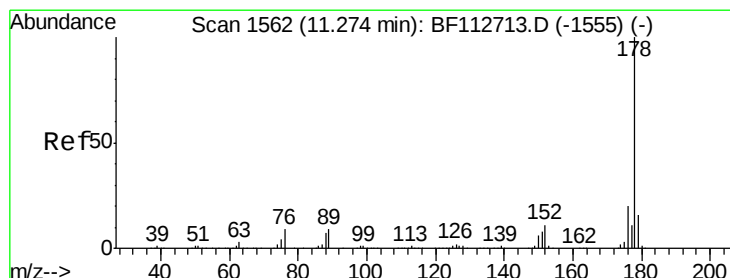
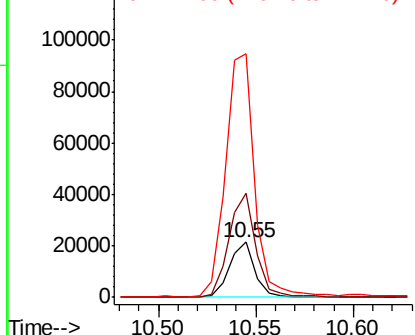
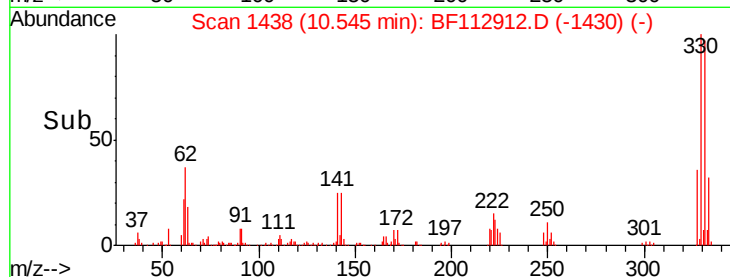
#67
 4-Bromophenyl-phenylether
 Concen: 3.159 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.25 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW024-022719

Tgt Ion:248 Resp: 19697
 Ion Ratio Lower Upper
 248 100
 250 188.0 77.5 116.3#
 141 439.7 62.4 93.6#

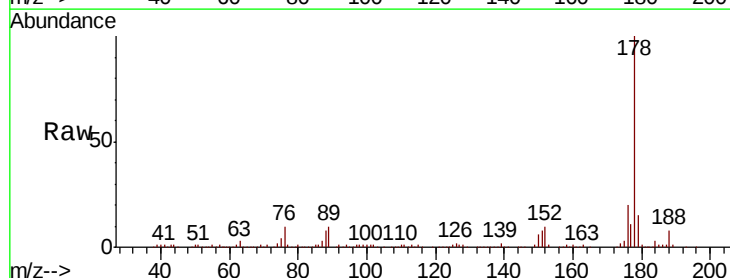


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

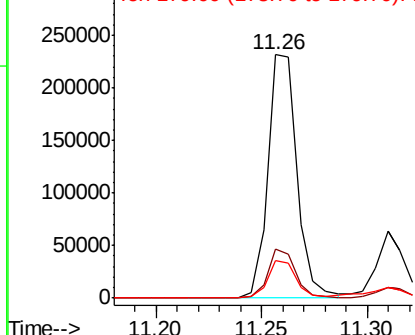
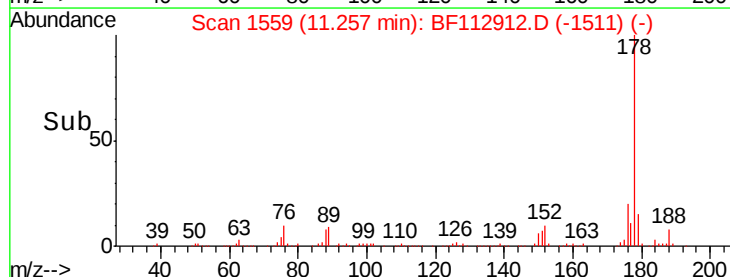


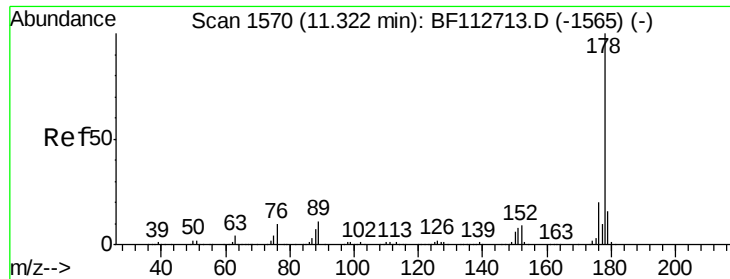
#71
 Phenanthrene
 Concen: 7.548 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.02 min
 Lab File: BF112912.D
 Acq: 7 Mar 2019 5:44

Tgt Ion:178 Resp: 222303
 Ion Ratio Lower Upper
 178 100
 176 20.0 16.3 24.5
 179 15.4 12.7 19.1



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: 2.025 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW024-022719

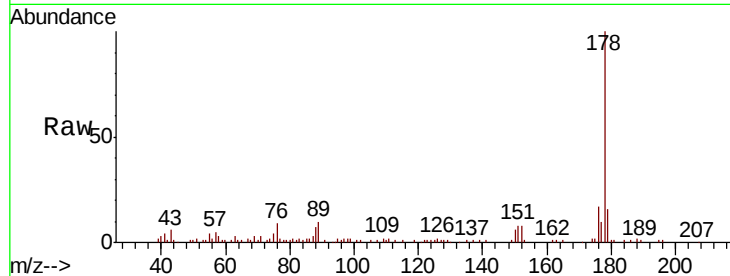
Tgt Ion:178 Resp: 62418

Ion Ratio Lower Upper

178 100

176 16.8 15.8 23.6

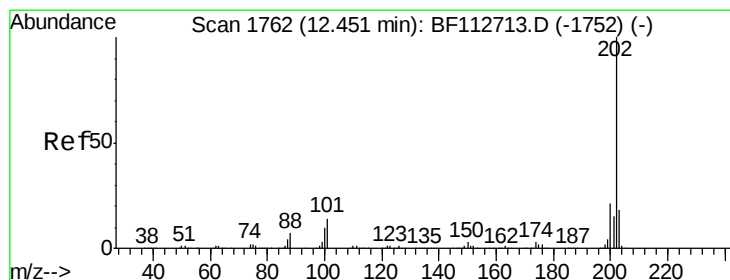
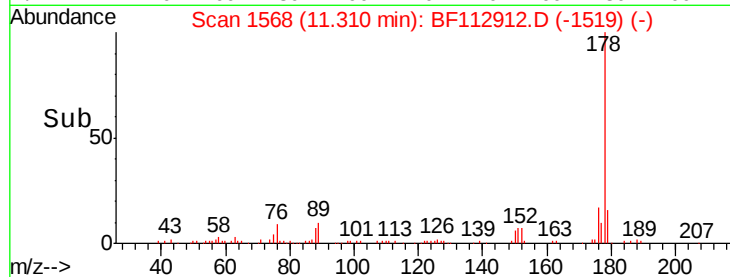
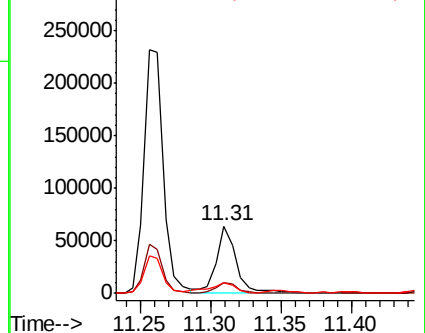
179 16.2 13.0 19.6



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: 10.320 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

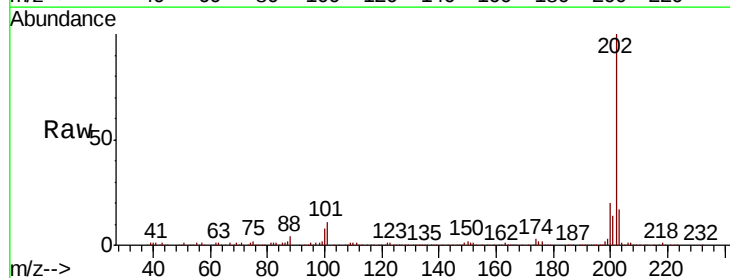
Tgt Ion:202 Resp: 325624

Ion Ratio Lower Upper

202 100

101 10.6 0.0 33.8

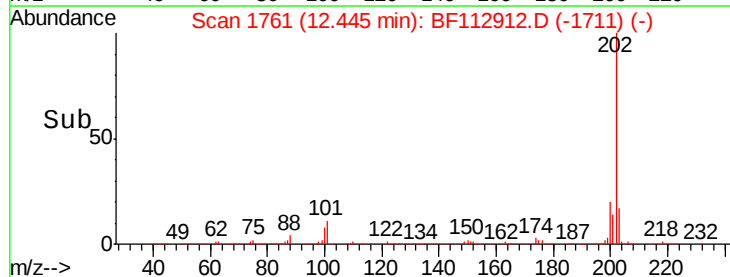
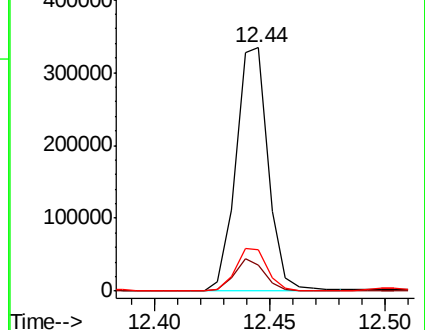
203 16.8 0.0 38.4

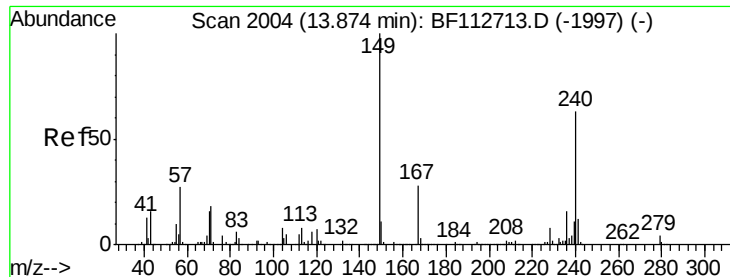


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

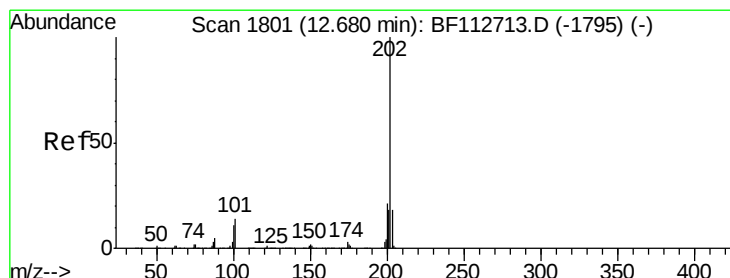
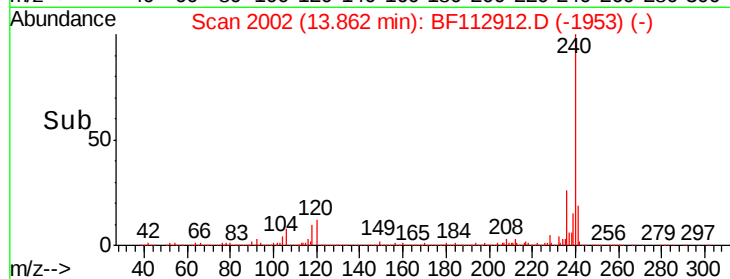
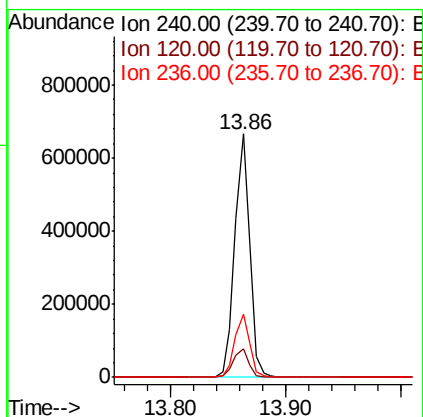
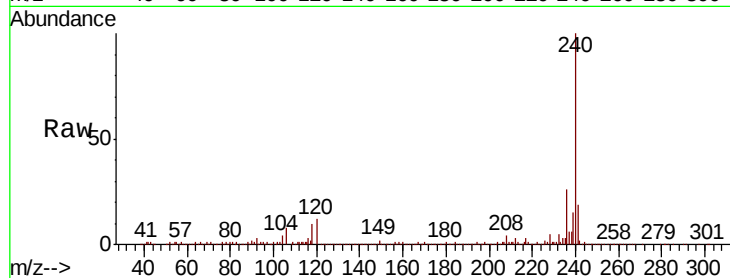




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

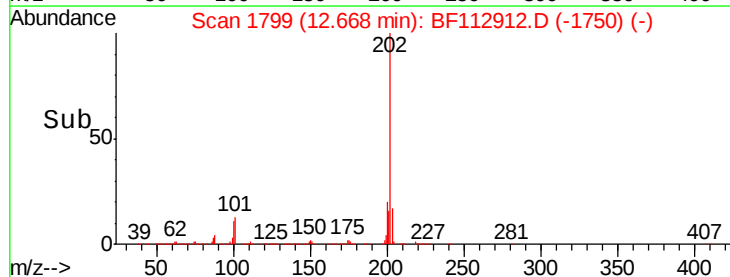
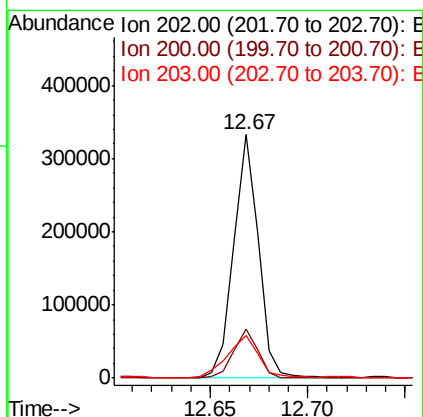
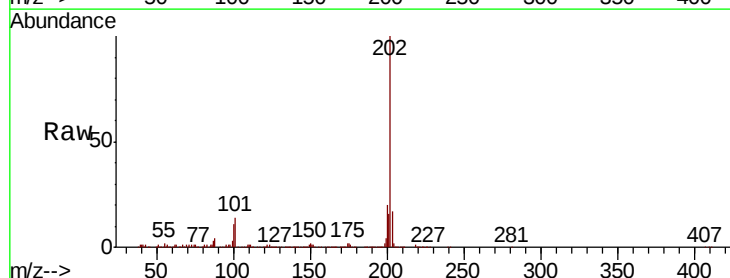
Instrument :
BNA_F
ClientSampleId :
EXT-027-SW024-022719

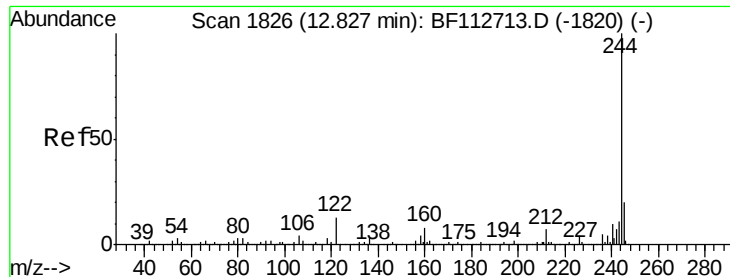
Tgt Ion:240 Resp: 597401
Ion Ratio Lower Upper
240 100
120 11.9 8.9 13.3
236 26.1 20.7 31.1



#78
Pyrene
Concen: 5.819 ng
RT: 12.67 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion:202 Resp: 293060
Ion Ratio Lower Upper
202 100
200 20.1 17.0 25.4
203 17.5 14.4 21.6





#79

Terphenyl-d14

Concen: 43.803 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW024-022719

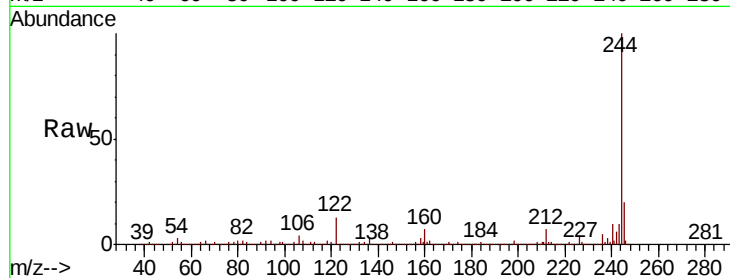
Tgt Ion:244 Resp: 1349897

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

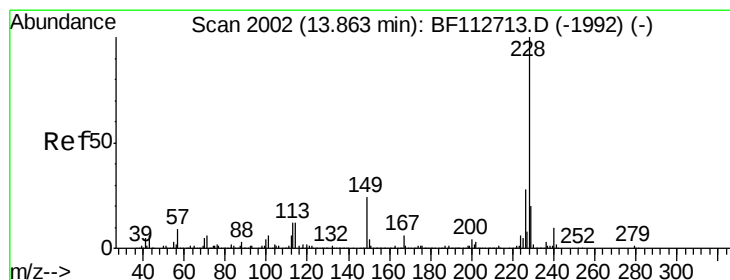
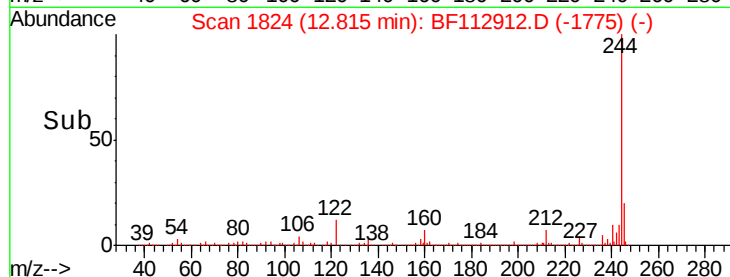
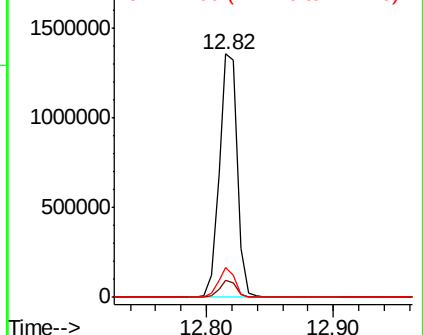
122 12.5 10.5 15.7



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: 3.991 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

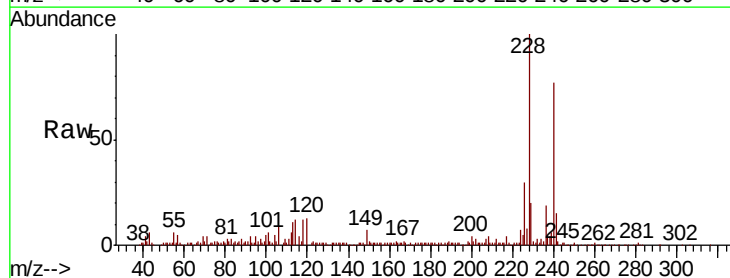
Tgt Ion:228 Resp: 165252

Ion Ratio Lower Upper

228 100

226 29.5 22.2 33.4

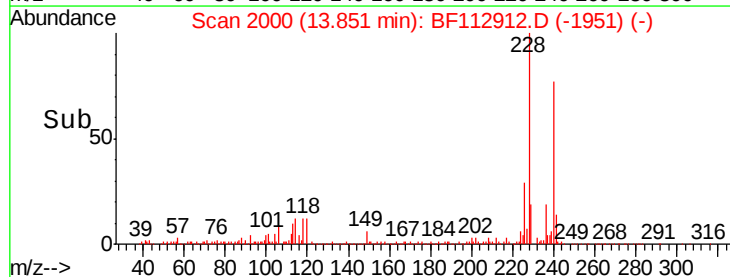
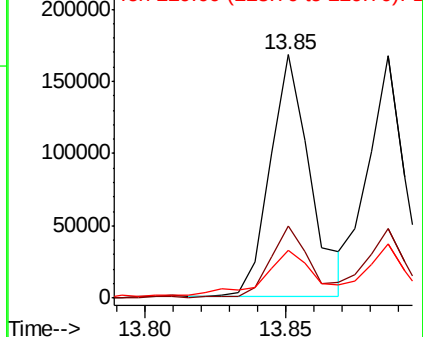
229 19.9 16.0 24.0

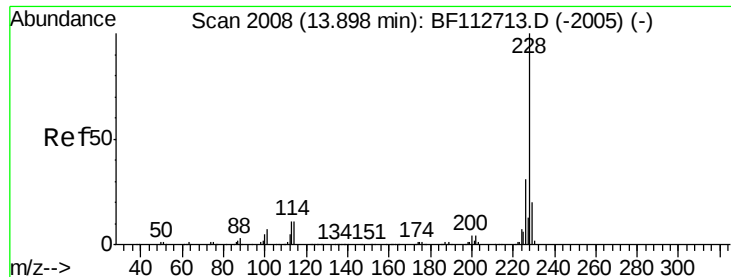


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.693 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW024-022719

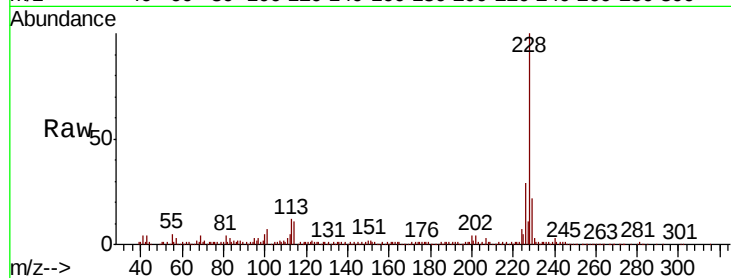
Tgt Ion:228 Resp: 149761

Ion Ratio Lower Upper

228 100

226 28.9 24.9 37.3

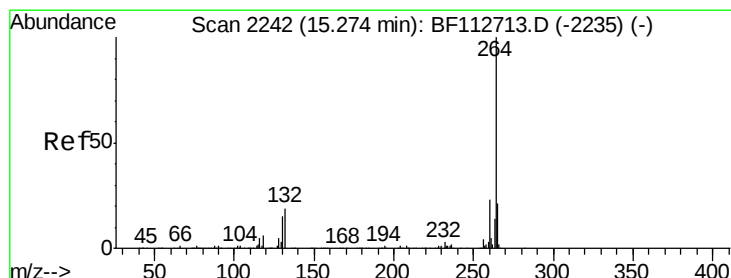
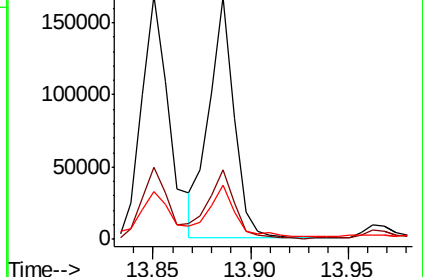
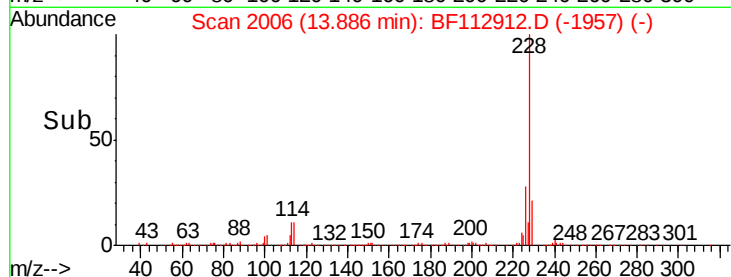
229 22.5 16.3 24.5



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

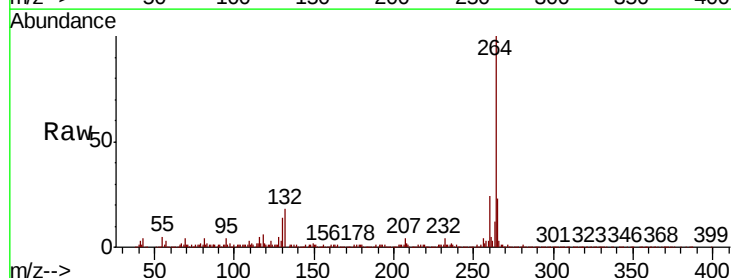
Tgt Ion:264 Resp: 439518

Ion Ratio Lower Upper

264 100

260 23.7 18.7 28.1

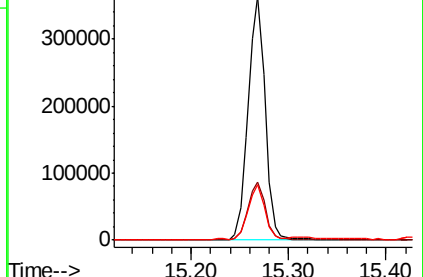
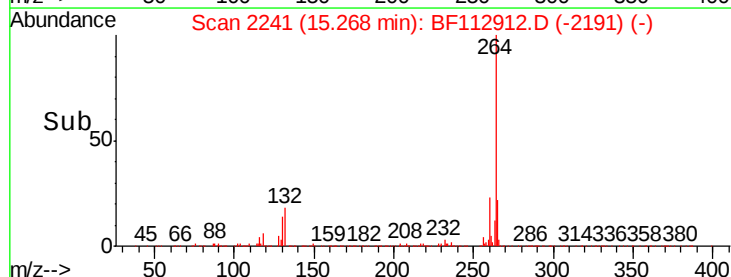
265 22.7 17.2 25.8

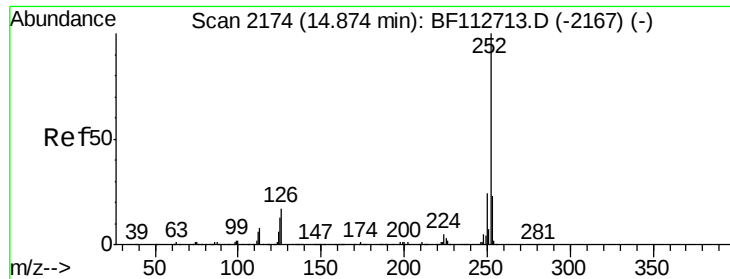


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

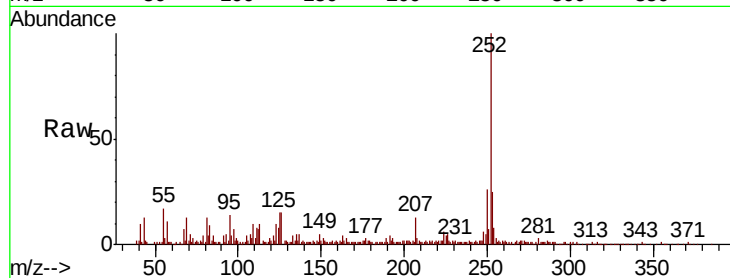




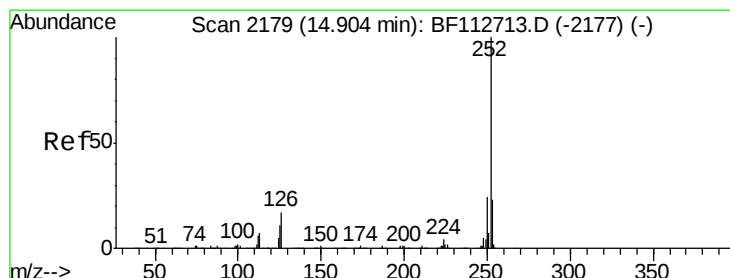
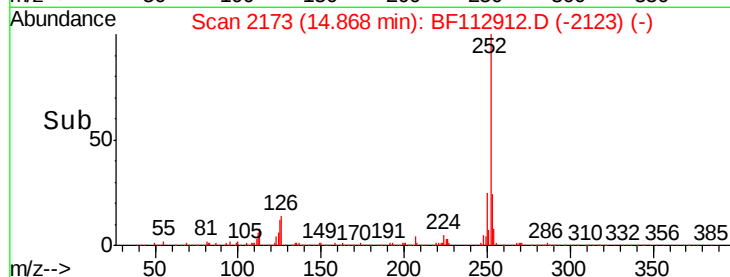
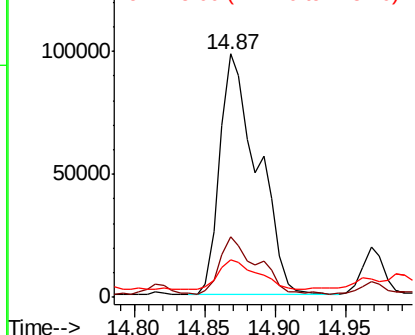
#88
Benzo(b)fluoranthene
Concen: 6.419 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW024-022719

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.0	27.0
125	15.3	10.2	15.2#

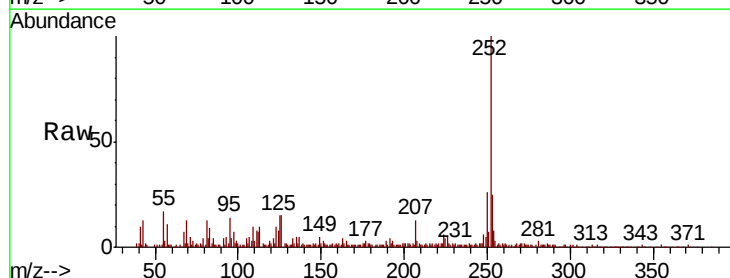


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

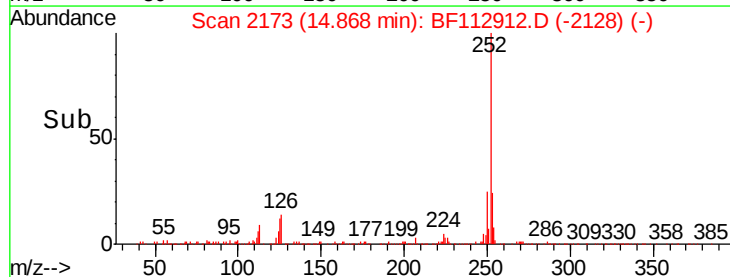
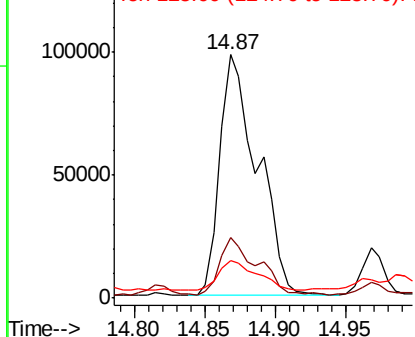


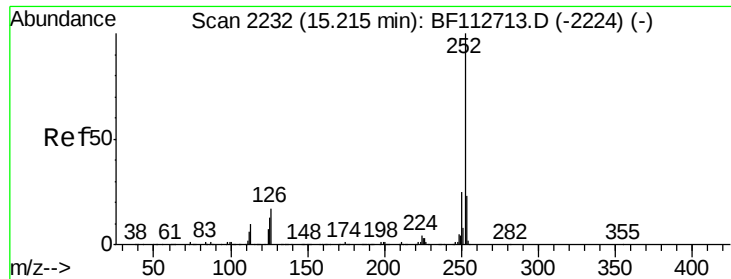
#89
Benzo(k)fluoranthene
Concen: 7.086 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF112912.D
Acq: 7 Mar 2019 5:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.2	27.2
125	15.3	9.8	14.6#



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: 3.513 ng

RT: 15.21 min Scan# 2231

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW024-022719

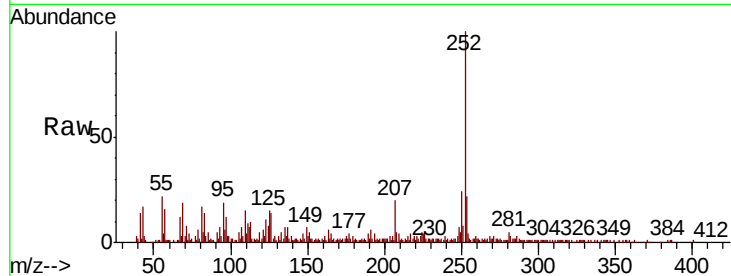
Tgt Ion:252 Resp: 88340

Ion Ratio Lower Upper

252 100

253 22.4 18.0 27.0

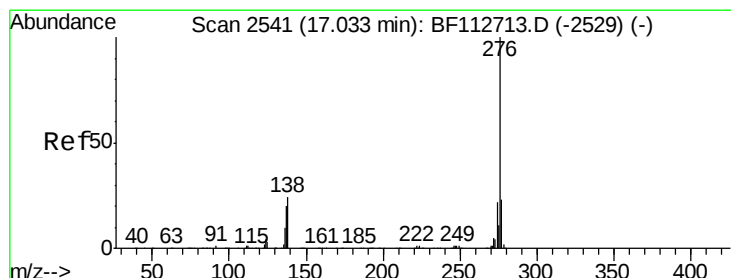
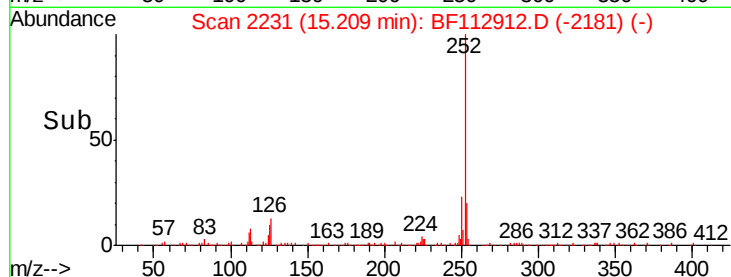
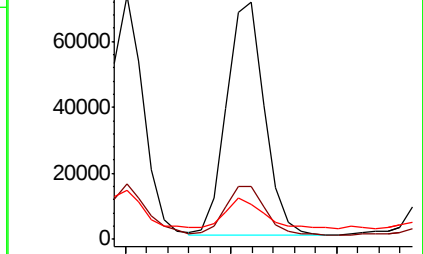
125 14.8 10.7 16.1



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(g,h,i)perylene

Concen: 2.809 ng

RT: 17.03 min Scan# 2540

Delta R.T. -0.01 min

Lab File: BF112912.D

Acq: 7 Mar 2019 5:44

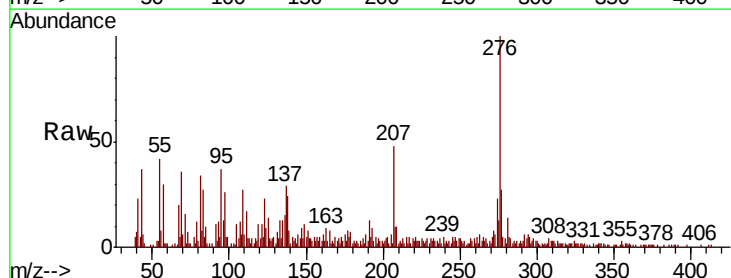
Tgt Ion:276 Resp: 60529

Ion Ratio Lower Upper

276 100

277 26.5 18.6 27.8

138 24.3 19.4 29.0



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

