

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030619\
 Data File : BF112907.D
 Acq On : 7 Mar 2019 3:27
 Operator : JU/SJ
 Sample : K1705-11
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW013-022719

Quant Time: Mar 07 04:53:51 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	194885	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	712098	20.00	ng	-0.01
39) Acenaphthene-d10	9.76	164	304174	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	548362	20.00	ng	0.00
76) Chrysene-d12	13.86	240	535733	20.00	ng	-0.01
87) Perylene-d12	15.26	264	536567	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	957100	76.39	ng	0.00
7) Phenol-d6	6.36	99	1195335	75.95	ng	0.00
23) Nitrobenzene-d5	7.29	82	701976	58.99	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	293466	90.88	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	1192482	60.13	ng	-0.01
79) Terphenyl-d14	12.82	244	1132169	40.97	ng	-0.01

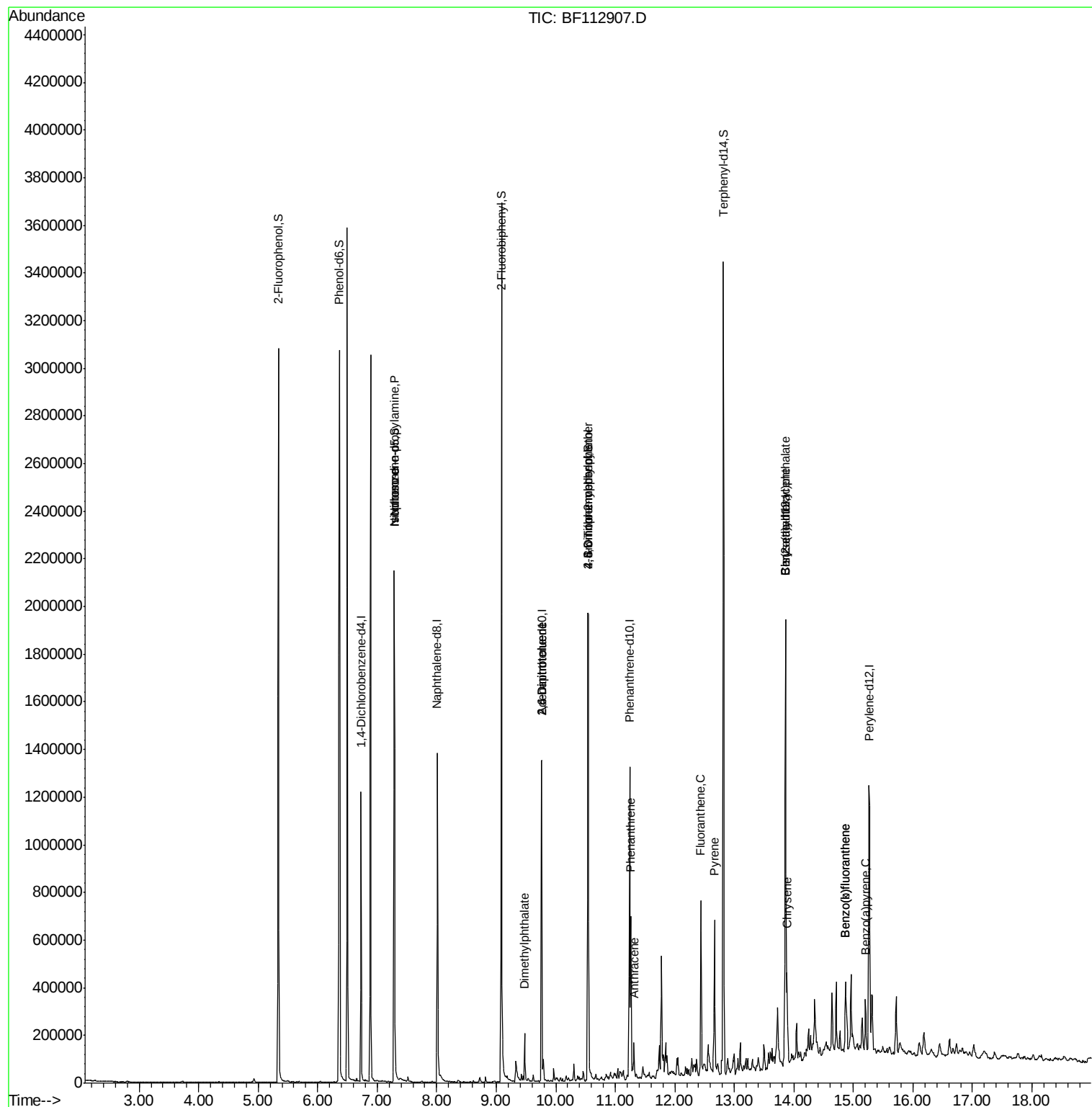
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	90931	9.123	ng	# 74
25) Isophorone	7.29	82	698369	27.240	ng	# 66
50) Dimethylphthalate	9.48	163	84825	3.782	ng	# 98
51) 2,6-Dinitrotoluene	9.76	165	39197	8.393	ng	# 18
57) 2,4-Dinitrotoluene	9.76	165	39198	6.752	ng	# 17
65) 4,6-Dinitro-2-methylphenol	10.55	198	542	4.830	ng	# 1
67) 4-Bromophenyl-phenylether	10.55	248	16462	2.850	ng	# 1
71) Phenanthrene	11.26	178	255638	9.370	ng	97
72) Anthracene	11.31	178	61715	2.161	ng	97
75) Fluoranthene	12.44	202	298292	10.205	ng	97
78) Pyrene	12.67	202	259101	5.737	ng	98
81) Benzo(a)anthracene	13.85	228	143513	3.865	ng	98
83) Chrysene	13.89	228	138977	3.821	ng	97
84) Bis(2-ethylhexyl)phthalate	13.86	149	78379	3.352	ng	99
88) Benzo(b)fluoranthene	14.87	252	207947	5.992	ng	99
89) Benzo(k)fluoranthene	14.87	252	207947	6.615	ng	99
90) Benzo(a)pyrene	15.20	252	102657	3.344	ng	98

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

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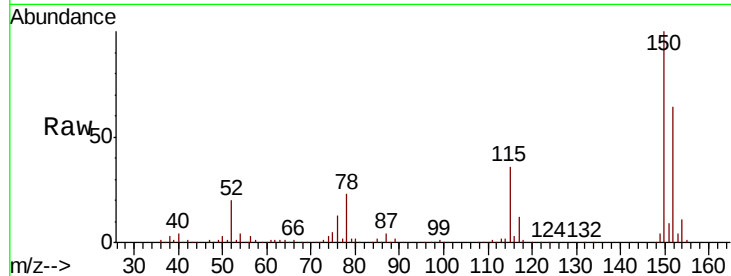




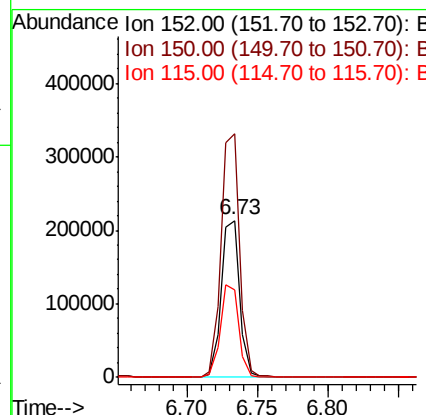
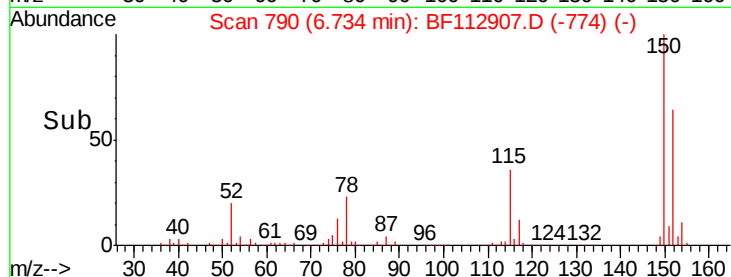
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW013-022719

Tgt Ion:152 Resp: 194885
 Ion Ratio Lower Upper
 152 100
 150 155.5 124.2 186.2
 115 55.9 48.2 72.4

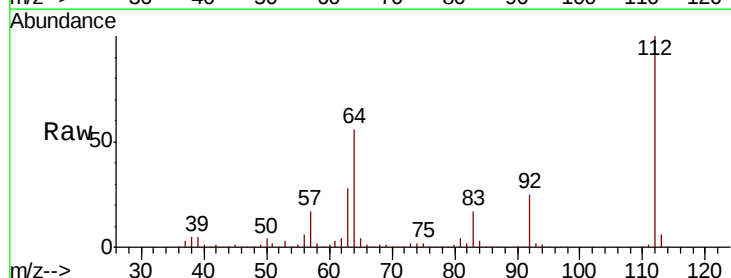


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

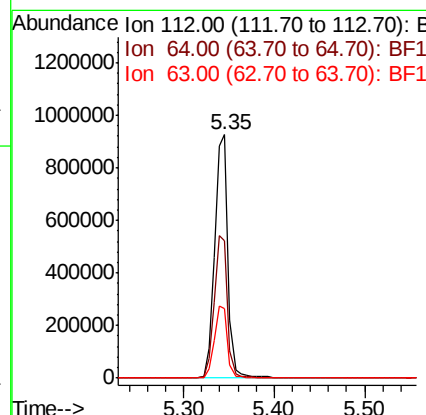
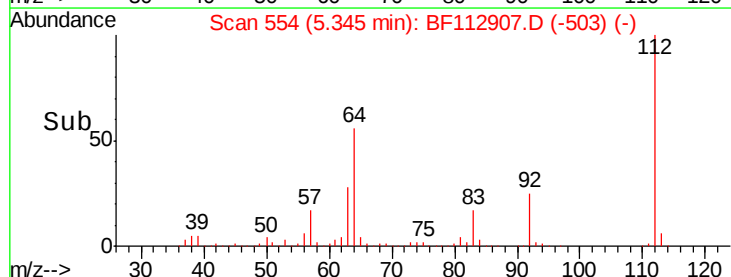


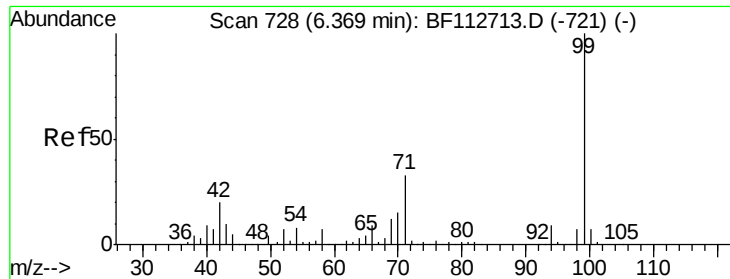
#5
 2-Fluorophenol
 Concen: 76.394 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.00 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Tgt Ion:112 Resp: 957100
 Ion Ratio Lower Upper
 112 100
 64 56.2 47.6 71.4
 63 28.3 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: 75.953 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

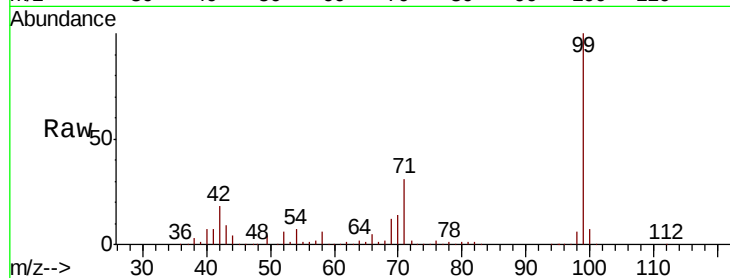
Tgt Ion: 99 Resp: 1195335

Ion Ratio Lower Upper

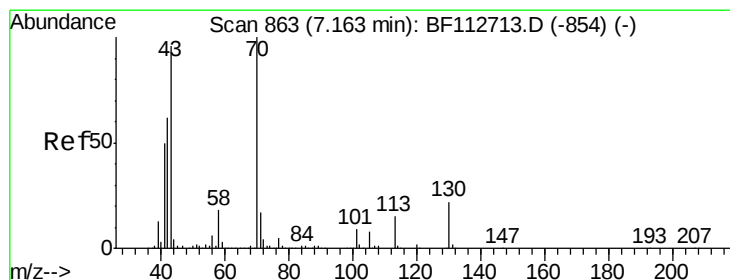
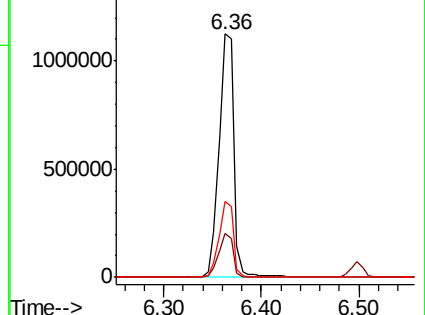
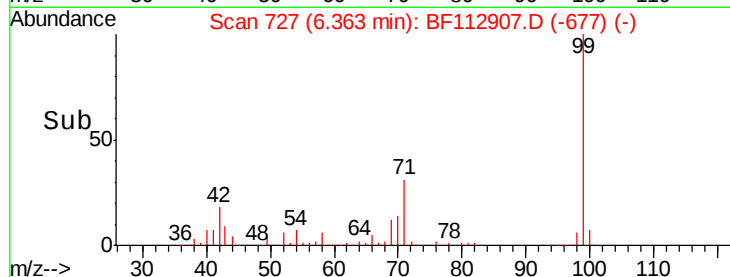
99 100

42 18.3 16.3 24.5

71 31.3 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 9.123 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.12 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Tgt Ion: 70 Resp: 90931

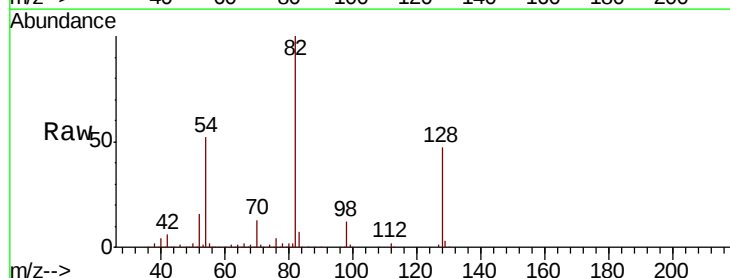
Ion Ratio Lower Upper

70 100

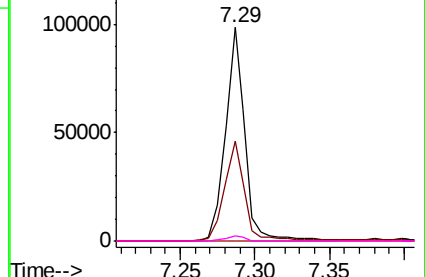
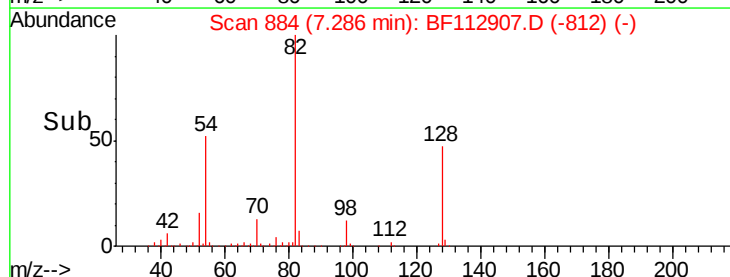
42 46.8 49.9 74.9#

101 0.0 7.4 11.2#

130 2.2 17.4 26.2#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1

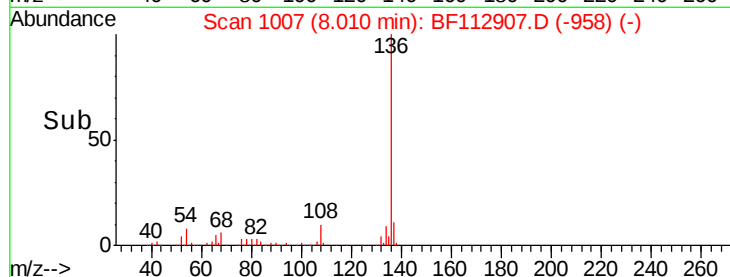
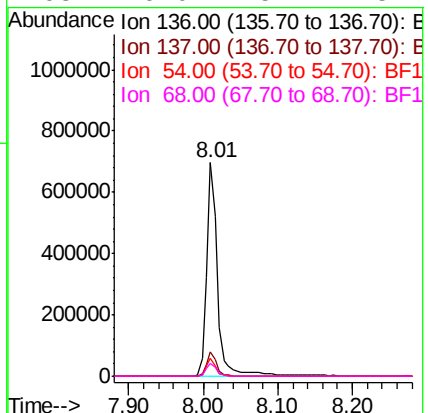
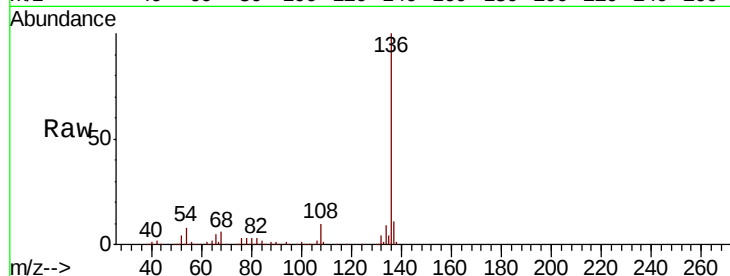




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

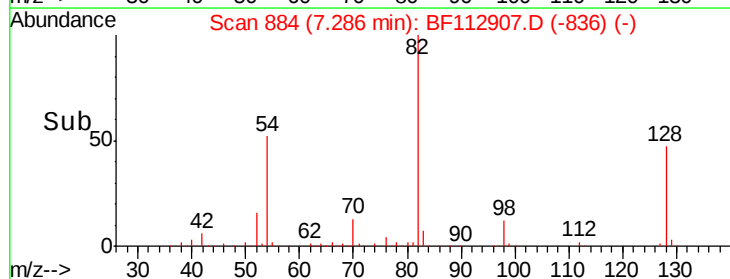
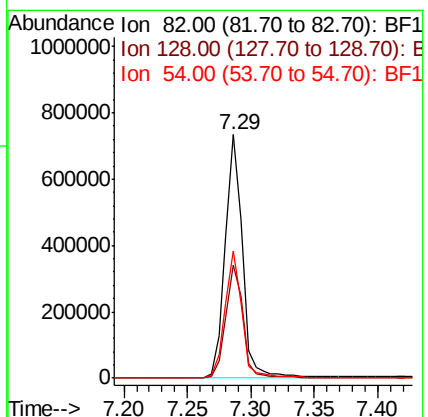
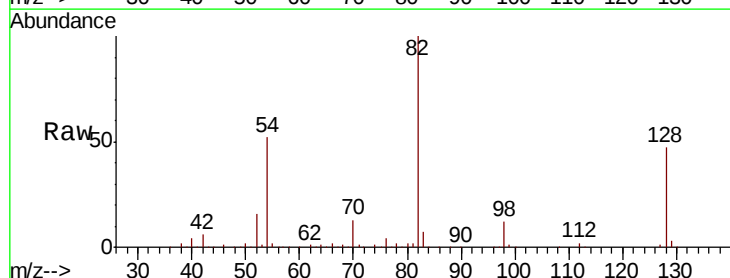
Instrument :
BNA_F
ClientSampleId :
EXT-027-SW013-022719

Tgt Ion:	136	Resp:	712098
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	8.4	7.3	10.9
68	6.0	5.4	8.2



#23
Nitrobenzene-d5
Concen: 58.987 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.02 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Tgt Ion:	82	Resp:	701976
Ion	Ratio	Lower	Upper
82	100		
128	46.7	36.3	54.5
54	52.4	43.7	65.5

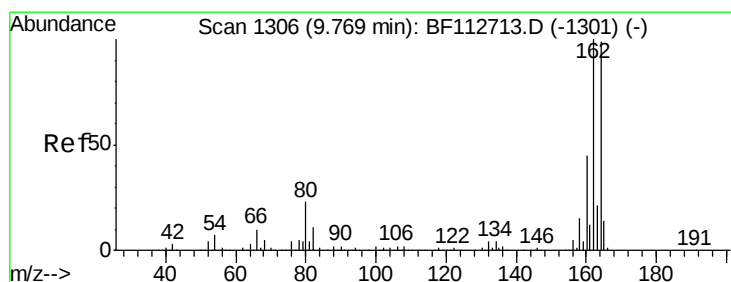
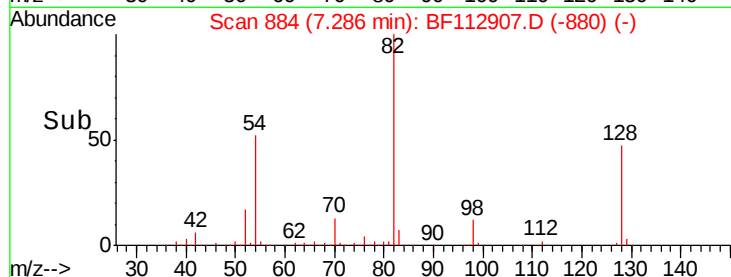
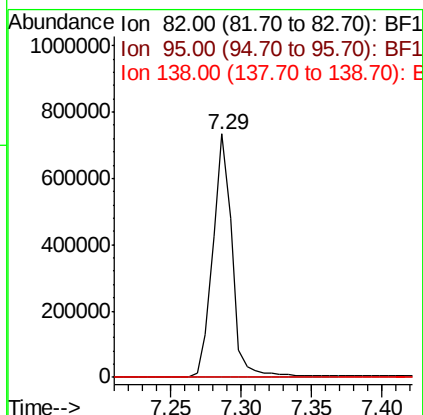
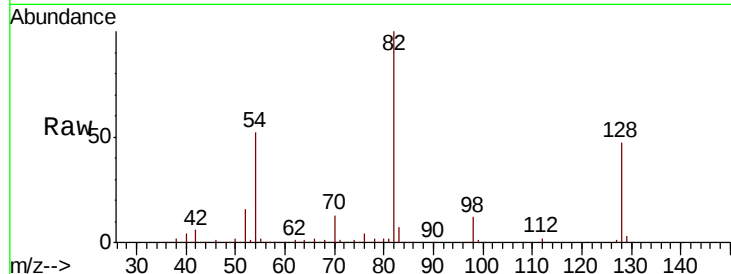




#25
Isophorone
Concen: 27.240 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.28 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

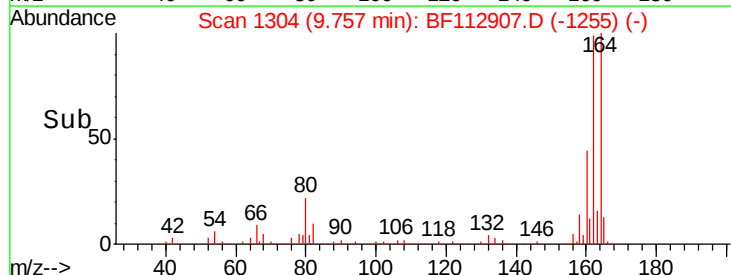
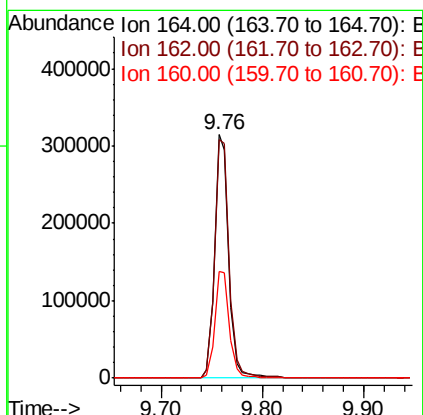
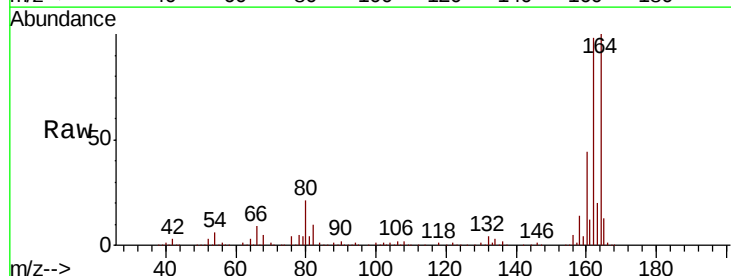
Instrument :
BNA_F
ClientSampleId :
EXT-027-SW013-022719

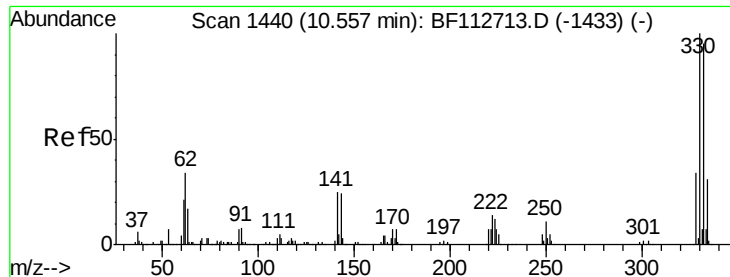
Tgt Ion: 82 Resp: 698369
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 13.8 20.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Tgt Ion: 164 Resp: 304174
Ion Ratio Lower Upper
164 100
162 98.0 80.6 120.8
160 43.7 36.0 54.0

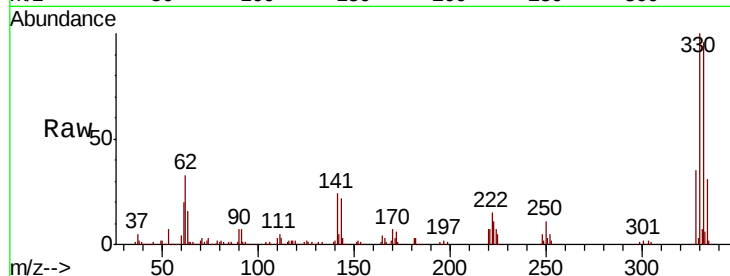




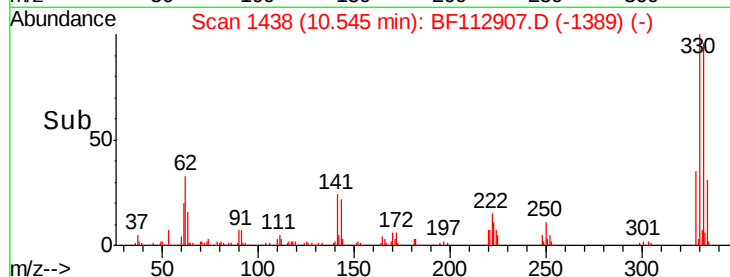
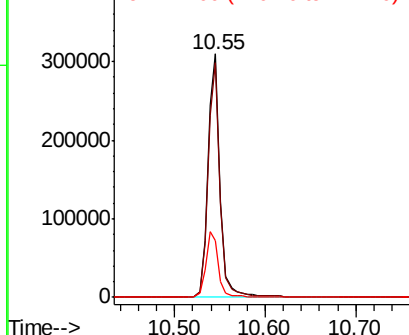
#42
 2,4,6-Tribromophenol
 Concen: 90.879 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW013-022719

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.2	114.4
141	28.1	27.0	40.6

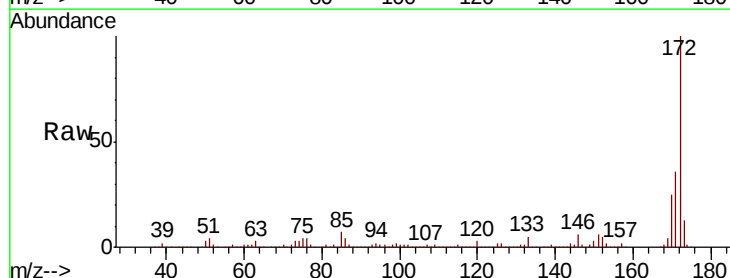


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

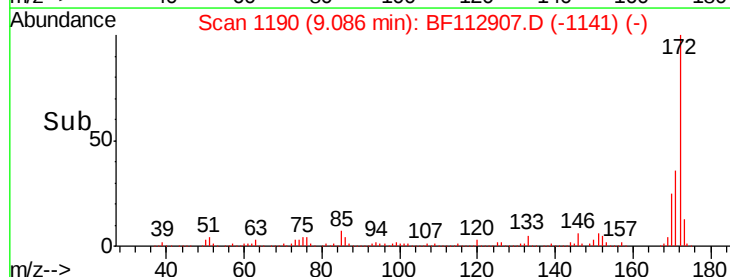
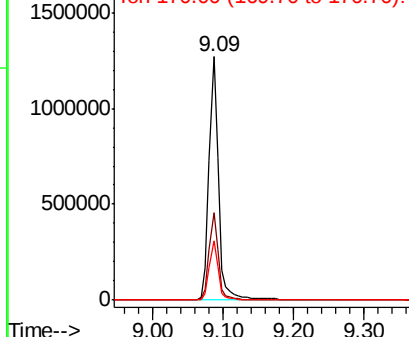


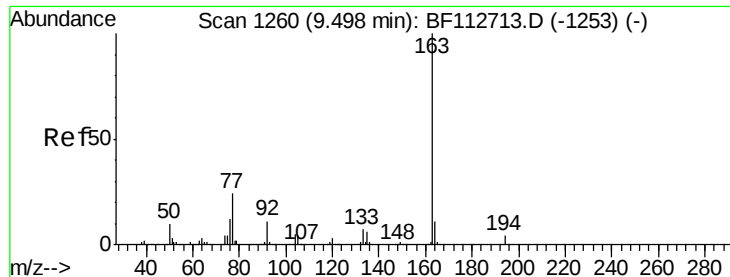
#45
 2-Fluorobiphenyl
 Concen: 60.128 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	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: 3.782 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

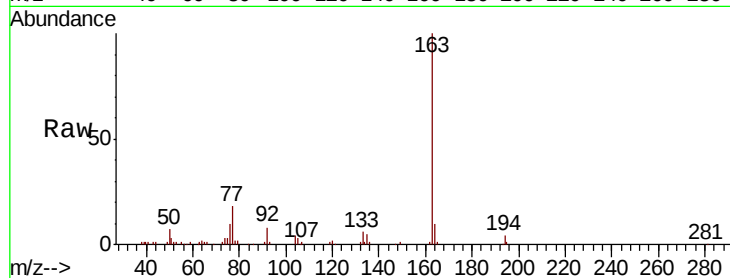
Tgt Ion:163 Resp: 84825

Ion Ratio Lower Upper

163 100

194 4.5 3.0 4.4#

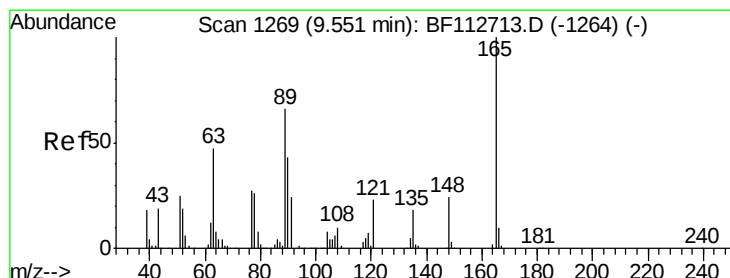
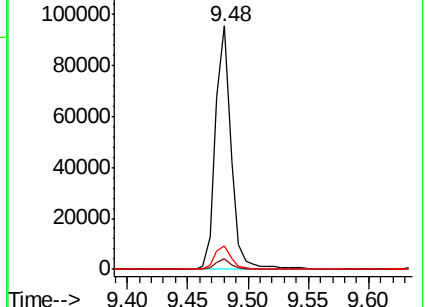
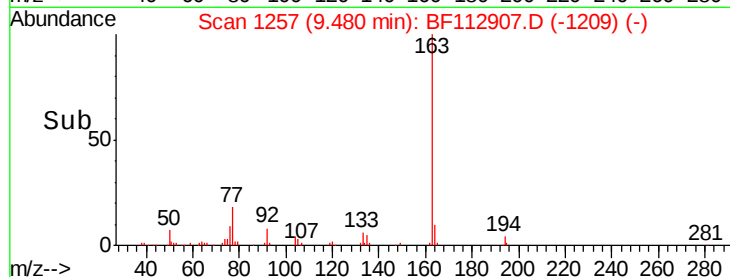
164 9.6 8.4 12.6



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: 8.393 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.21 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

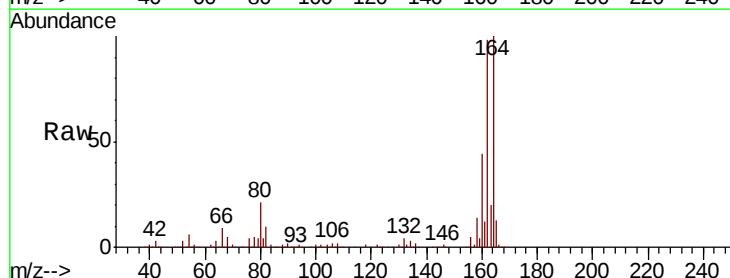
Tgt Ion:165 Resp: 39197

Ion Ratio Lower Upper

165 100

63 1.0 54.1 81.1#

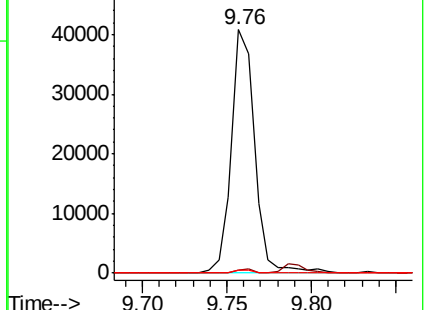
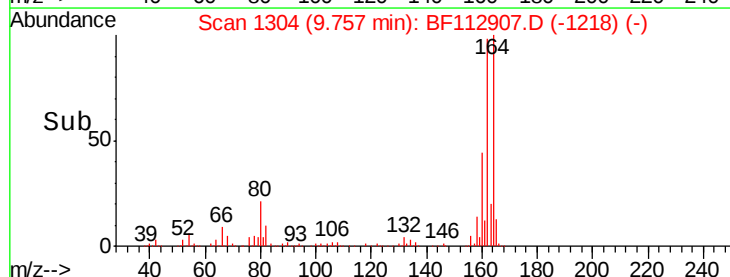
89 1.2 52.8 79.2#



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

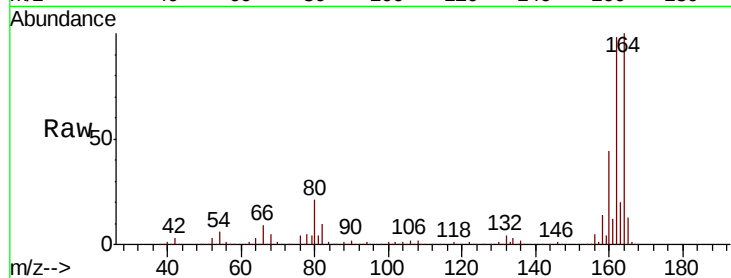




#57
2,4-Dinitrotoluene
Concen: 6.752 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.19 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW013-022719

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	42.2	63.2#
89	1.2	66.2	99.4#
182	0.0	1.8	2.6#



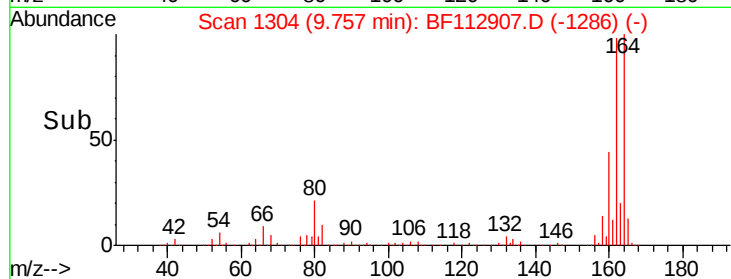
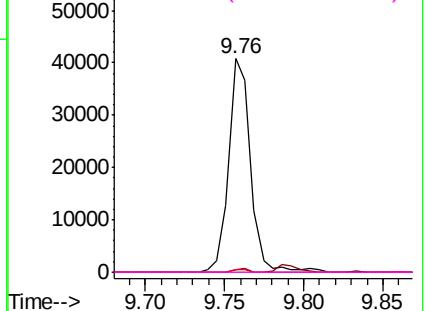
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

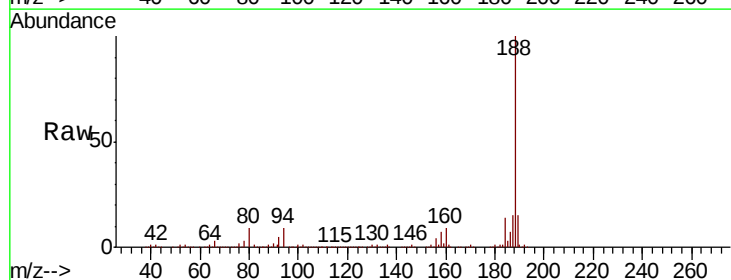
Ion 89.00 (88.70 to 89.70): BF1

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: BF112907.D
Acq: 7 Mar 2019 3:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	9.0	13.4
80	9.2	9.2	13.8

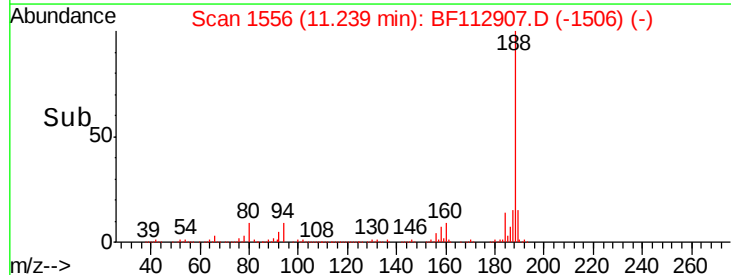
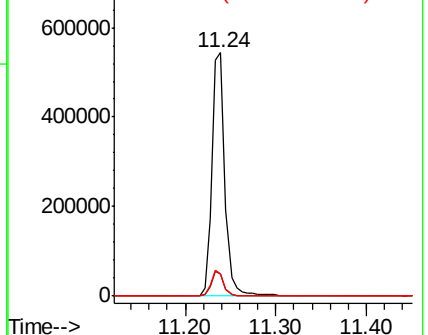


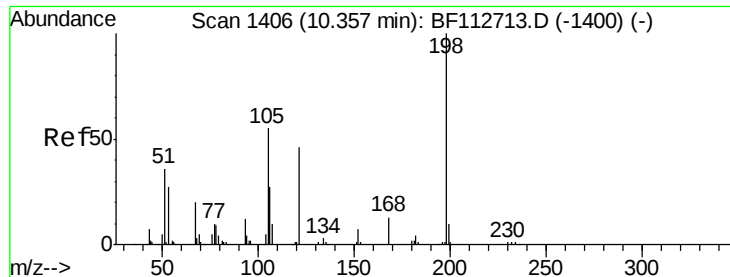
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

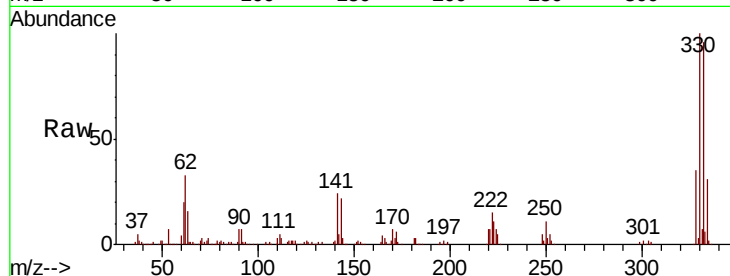




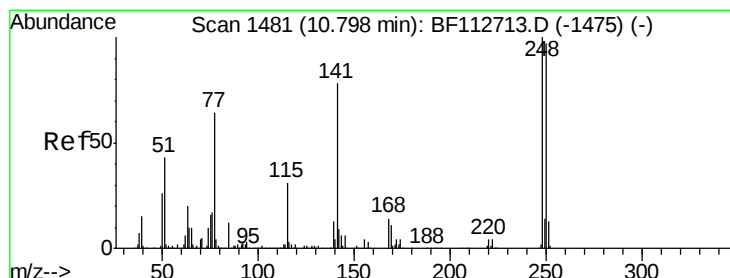
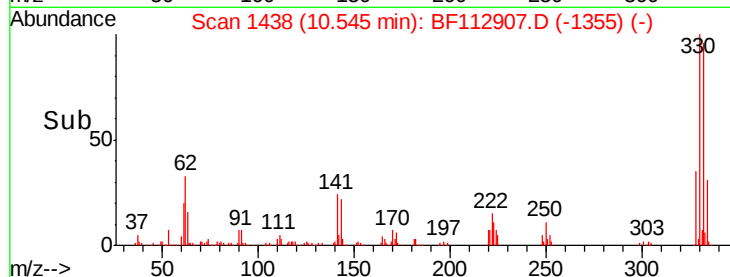
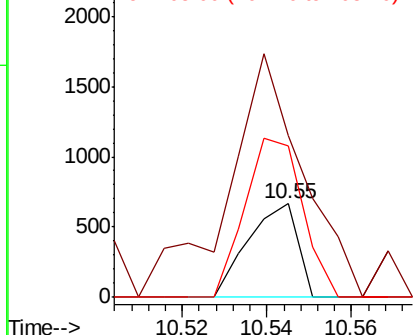
#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.830 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. 0.19 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW013-022719

Tgt Ion:198 Resp: 542
 Ion Ratio Lower Upper
 198 100
 51 173.8 43.8 83.8#
 105 162.2 36.5 76.5#

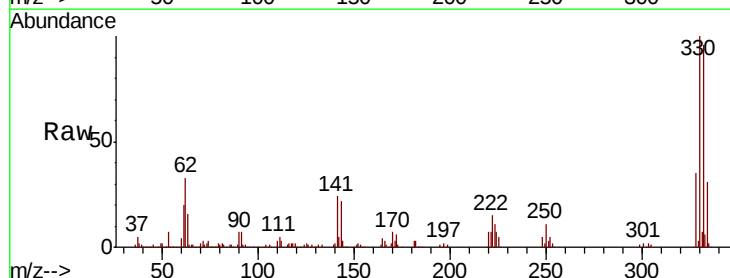


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

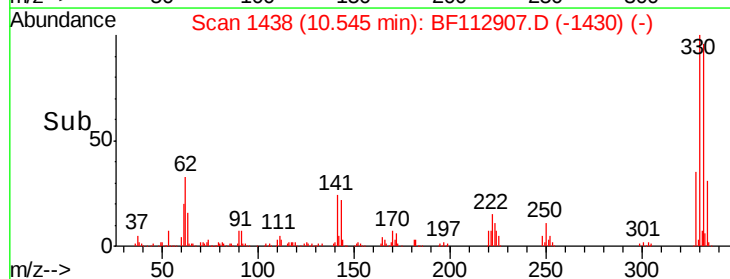
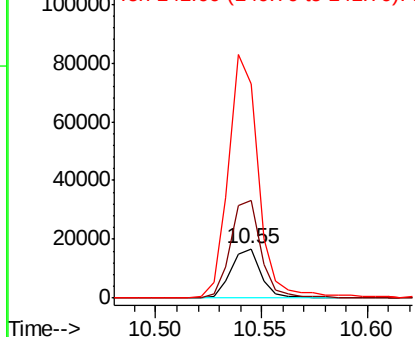


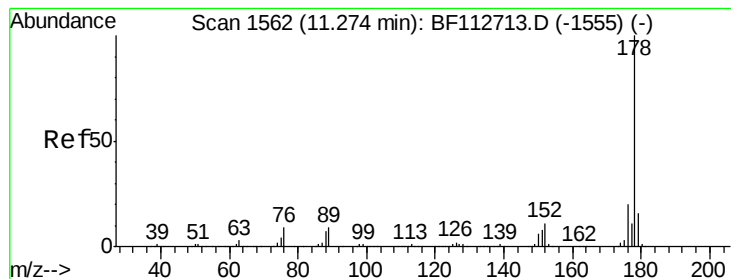
#67
 4-Bromophenyl-phenylether
 Concen: 2.850 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.25 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Tgt Ion:248 Resp: 16462
 Ion Ratio Lower Upper
 248 100
 250 199.1 77.5 116.3#
 141 434.2 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: 9.370 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.02 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

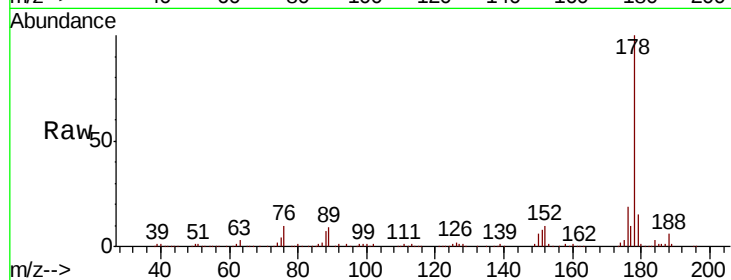
Tgt Ion:178 Resp: 255638

Ion Ratio Lower Upper

178 100

176 18.7 16.3 24.5

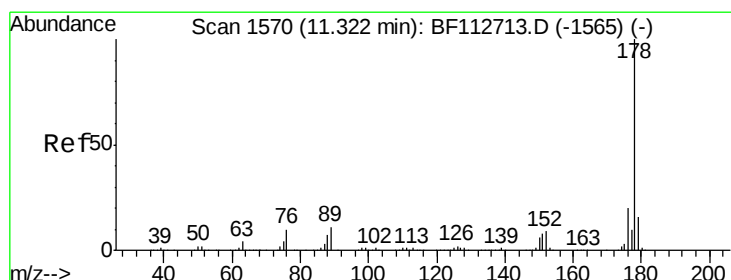
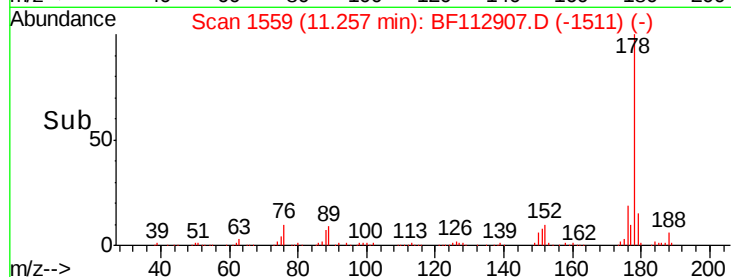
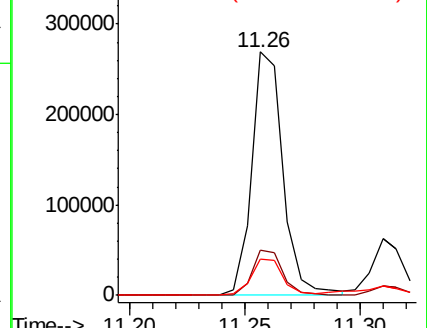
179 14.9 12.7 19.1



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: 2.161 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

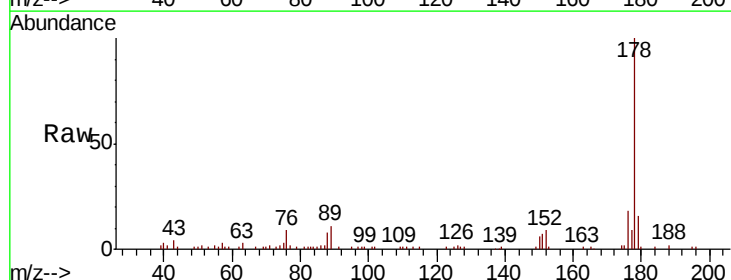
Tgt Ion:178 Resp: 61715

Ion Ratio Lower Upper

178 100

176 17.7 15.8 23.6

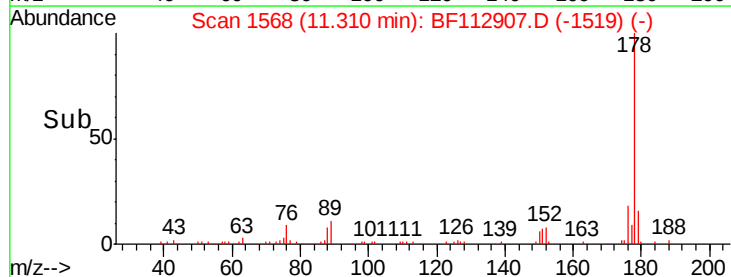
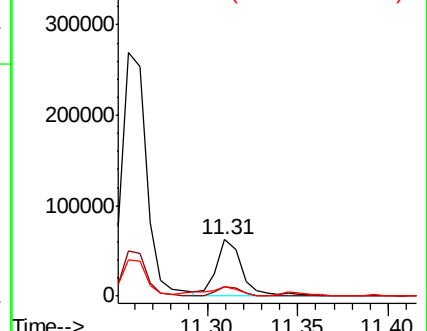
179 15.7 13.0 19.6

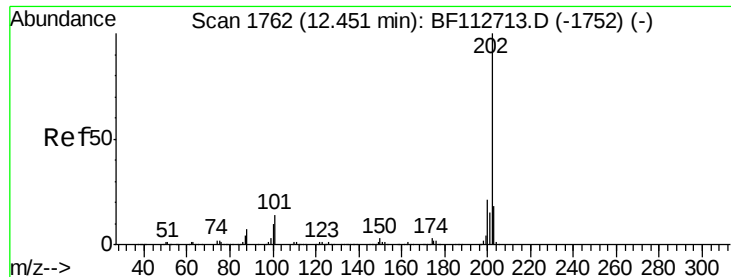


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

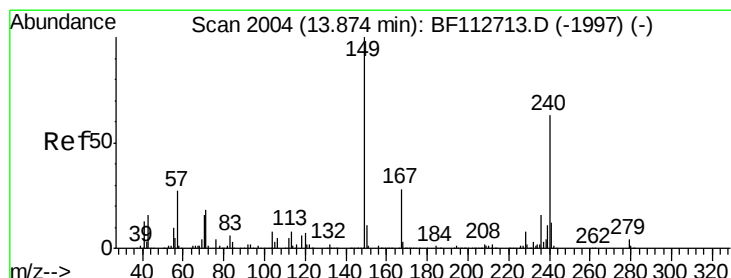
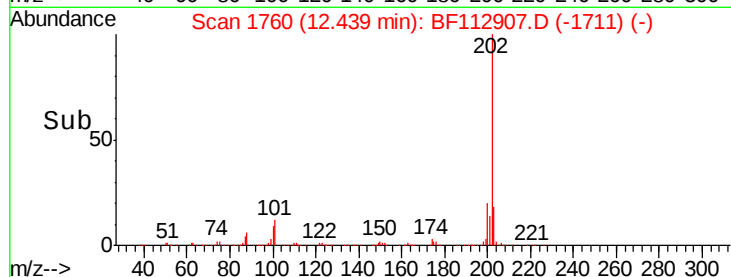
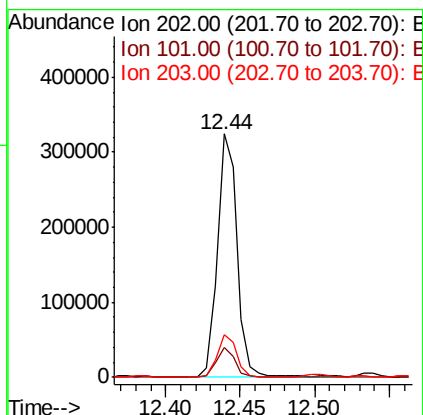
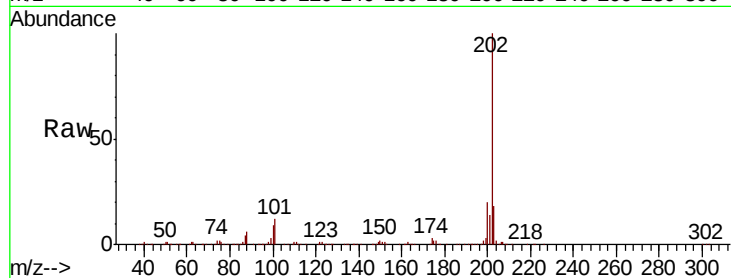




#75
 Fluoranthene
 Concen: 10.205 ng
 RT: 12.44 min Scan# 1760
 Delta R.T. -0.01 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

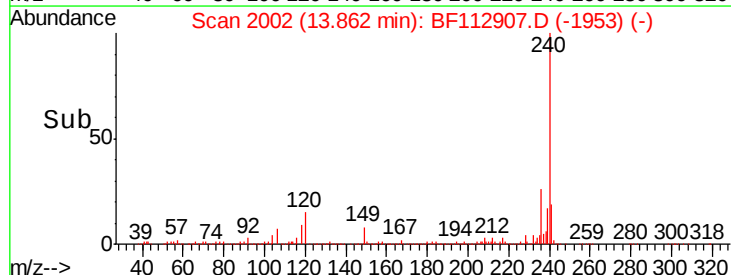
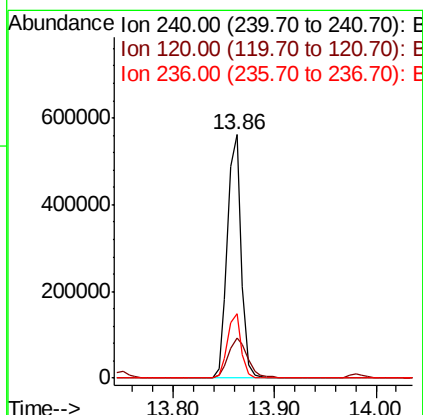
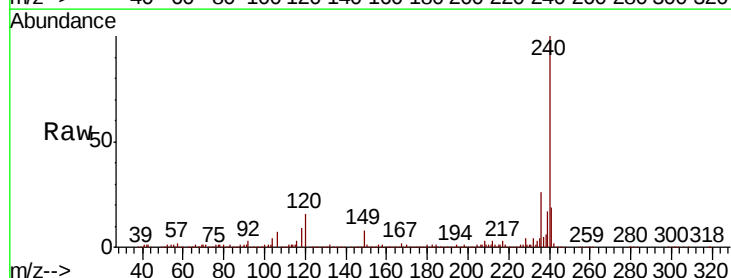
Instrument :
 BNA_F
 ClientSampleId :
 EXT-027-SW013-022719

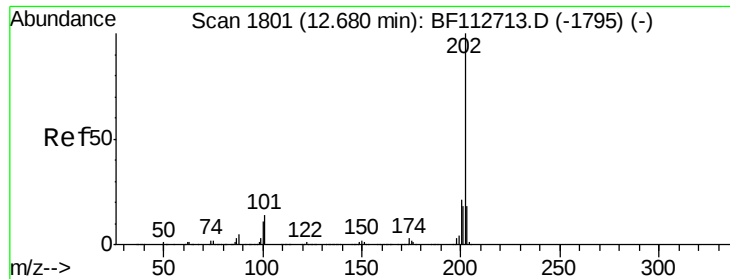
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	33.8
203	17.7	0.0	38.4



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.86 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BF112907.D
 Acq: 7 Mar 2019 3:27

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.4	8.9	13.3#
236	26.4	20.7	31.1





#78

Pyrene

Concen: 5.737 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

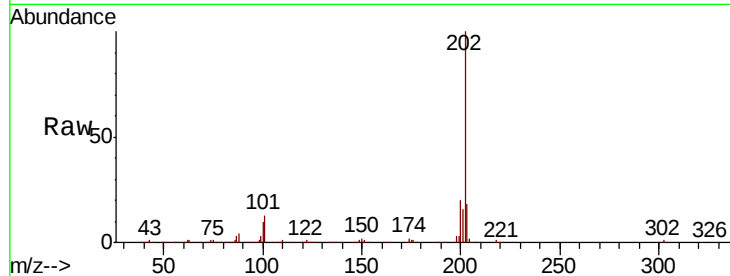
Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

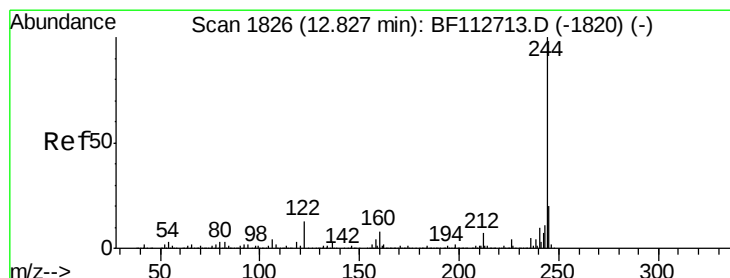
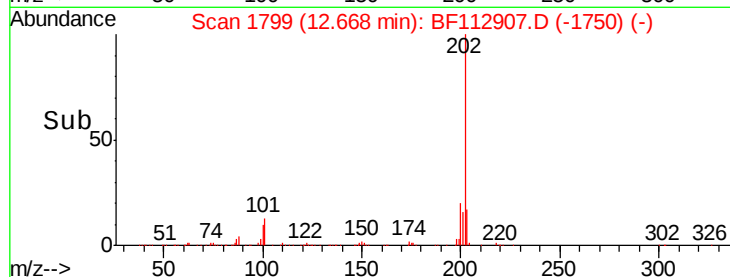
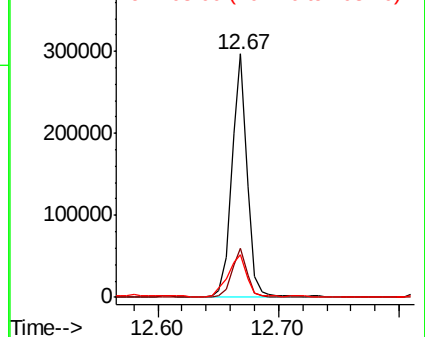
Tgt Ion:	202	Resp:	259101
Ion	Ratio	Lower	Upper
202	100		
200	19.9	17.0	25.4
203	17.6	14.4	21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 40.966 ng

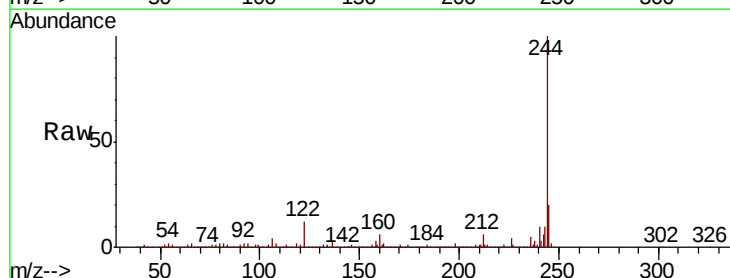
RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

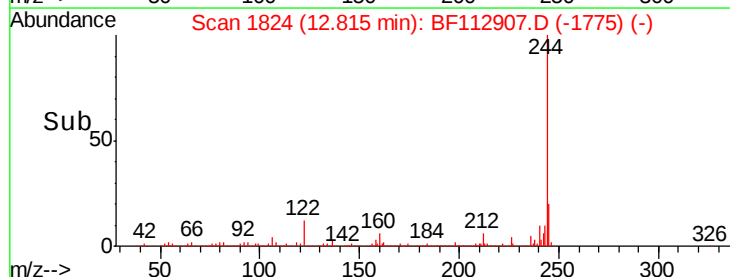
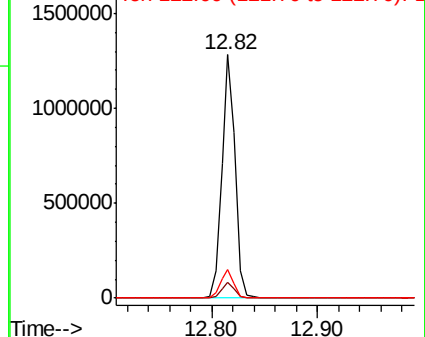
Tgt Ion:	244	Resp:	1132169
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	11.8	10.5	15.7

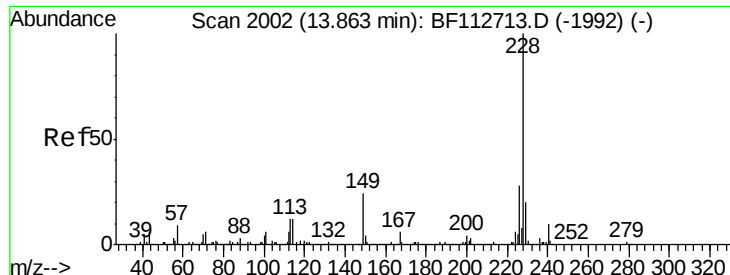


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

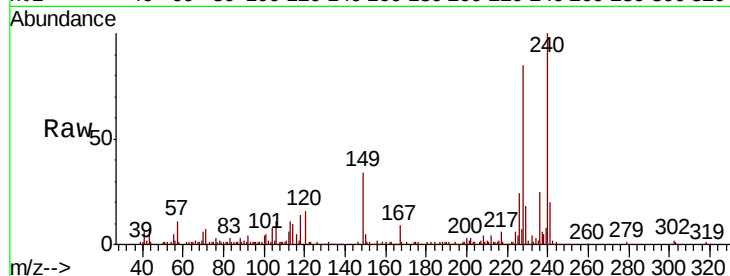




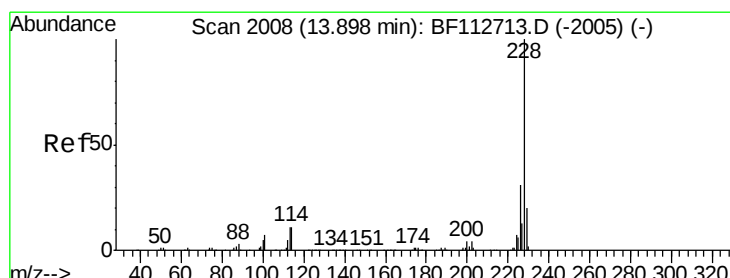
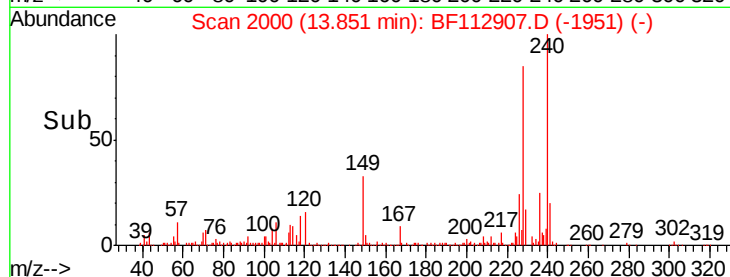
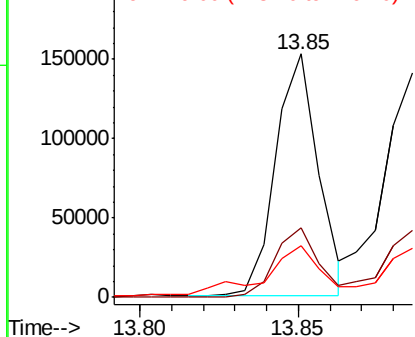
#81
Benzo(a)anthracene
Concen: 3.865 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW013-022719

Tgt Ion:228 Resp: 143513
Ion Ratio Lower Upper
228 100
226 28.3 22.2 33.4
229 21.2 16.0 24.0

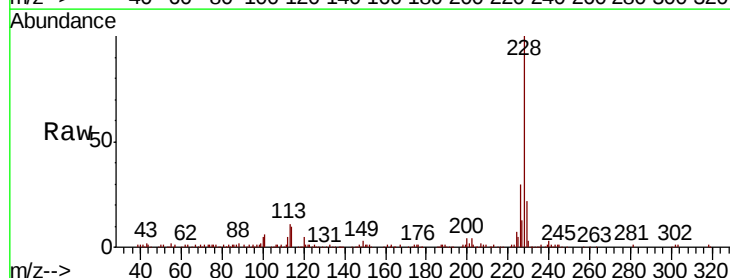


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

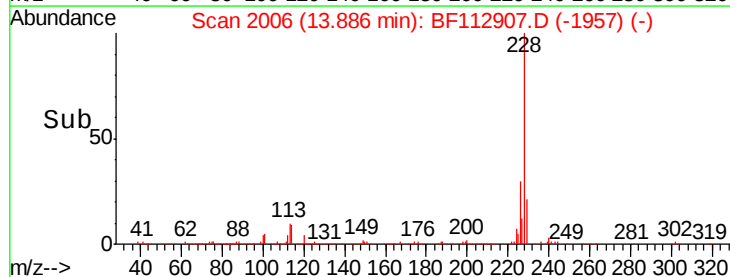
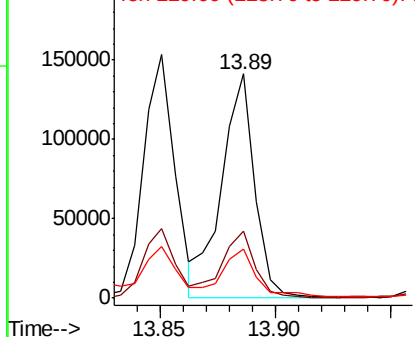


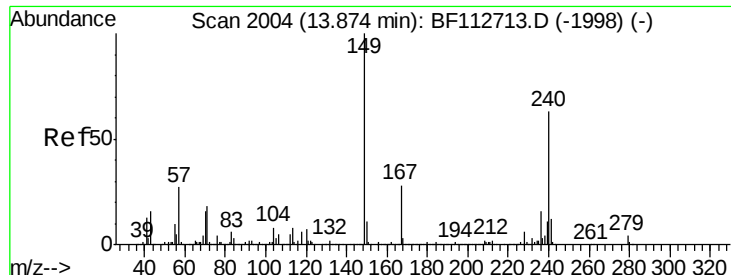
#83
Chrysene
Concen: 3.821 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Tgt Ion:228 Resp: 138977
Ion Ratio Lower Upper
228 100
226 30.0 24.9 37.3
229 22.0 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





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.352 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

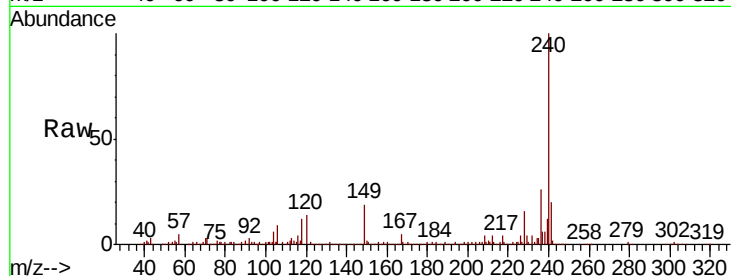
Tgt Ion:149 Resp: 78379

Ion Ratio Lower Upper

149 100

167 28.4 22.4 33.6

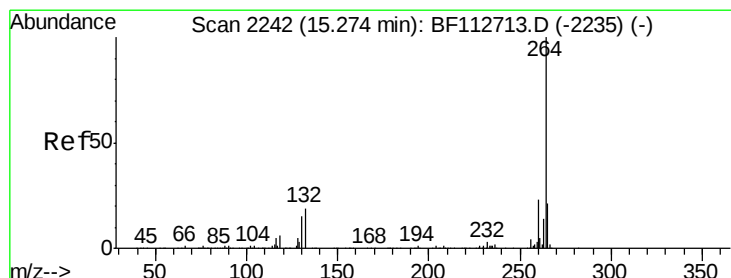
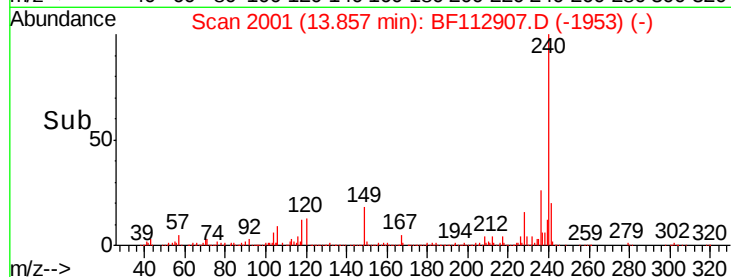
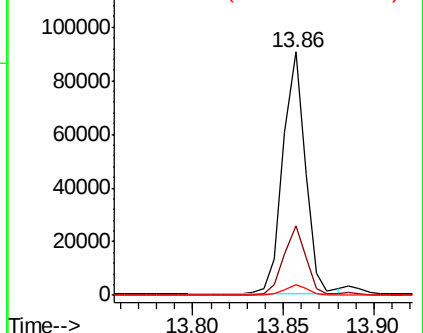
279 4.3 3.3 4.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.26 min Scan# 2240

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

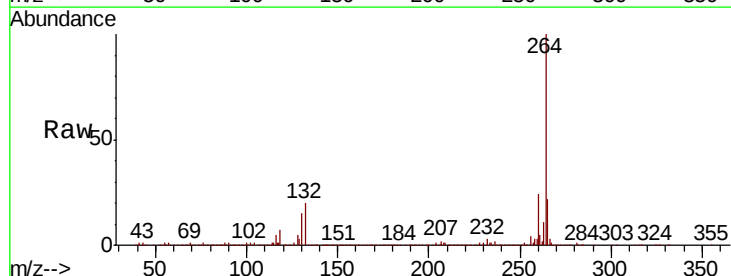
Tgt Ion:264 Resp: 536567

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

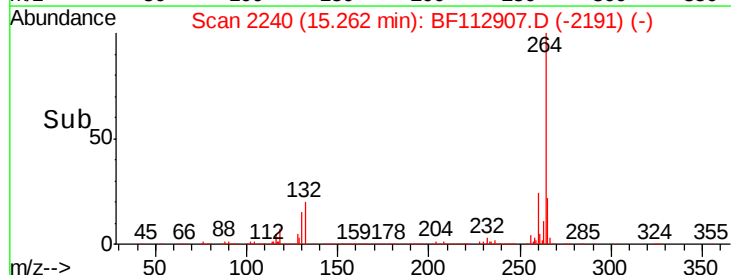
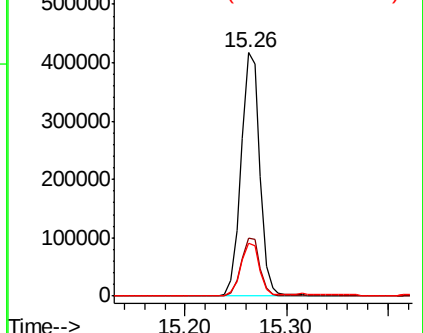
265 21.9 17.2 25.8

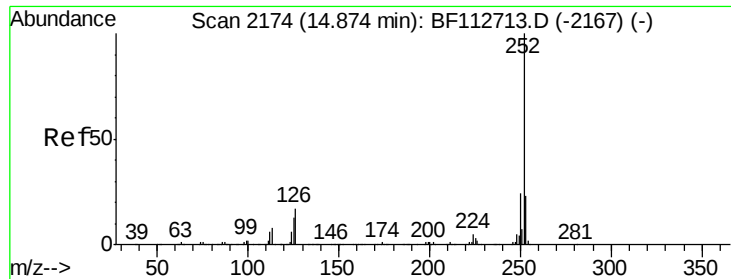


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

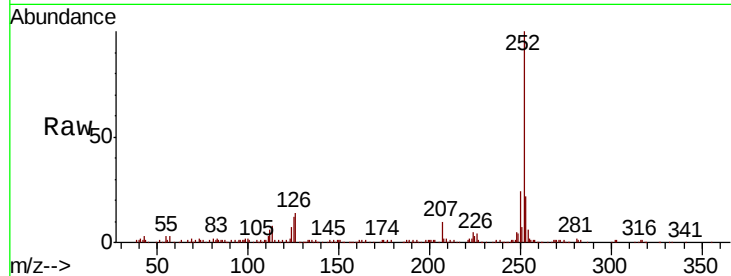




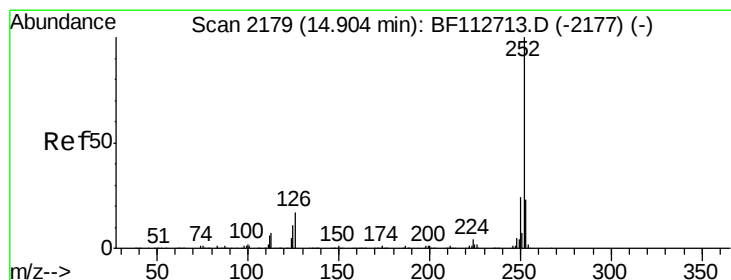
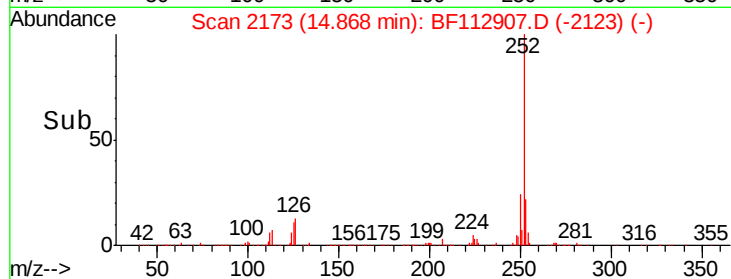
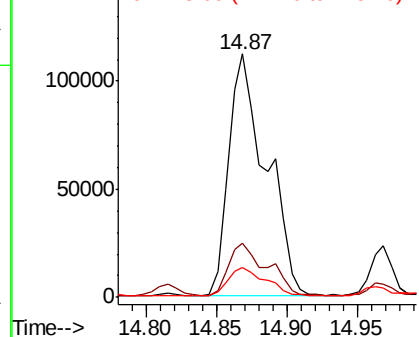
#88
Benzo(b)fluoranthene
Concen: 5.992 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Instrument :
BNA_F
ClientSampleId :
EXT-027-SW013-022719

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	12.1	10.2	15.2

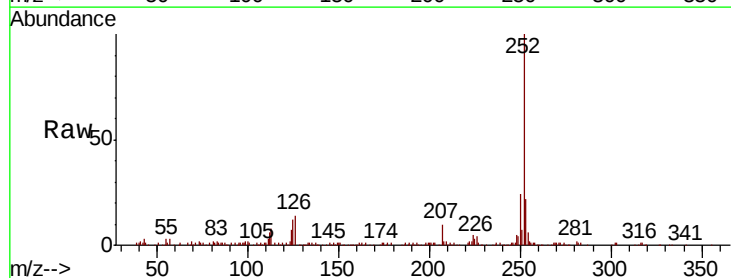


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

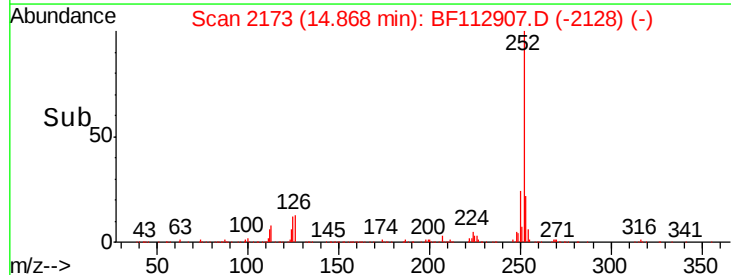
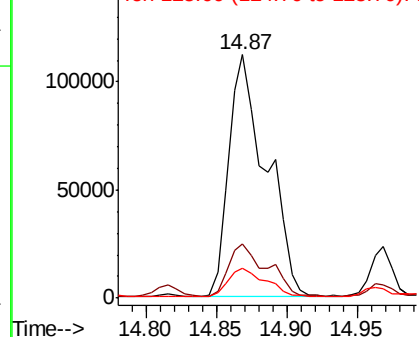


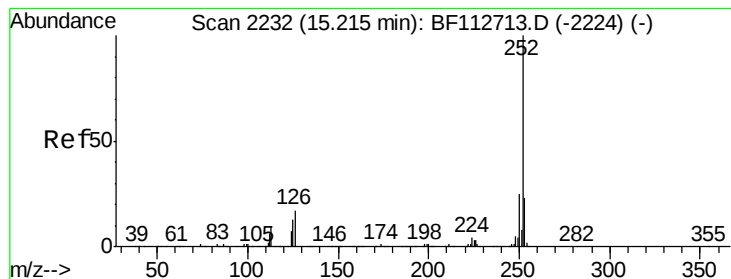
#89
Benzo(k)fluoranthene
Concen: 6.615 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF112907.D
Acq: 7 Mar 2019 3:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	12.1	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: 3.344 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BF112907.D

Acq: 7 Mar 2019 3:27

Instrument :

BNA_F

ClientSampleId :

EXT-027-SW013-022719

Tgt Ion:252 Resp: 102657

Ion Ratio Lower Upper

252 100

253 21.8 18.0 27.0

125 12.3 10.7 16.1

