

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031419\
 Data File : BF113053.D
 Acq On : 14 Mar 2019 16:50
 Operator : JU/SJ
 Sample : K1866-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MR-MH-03-COMP

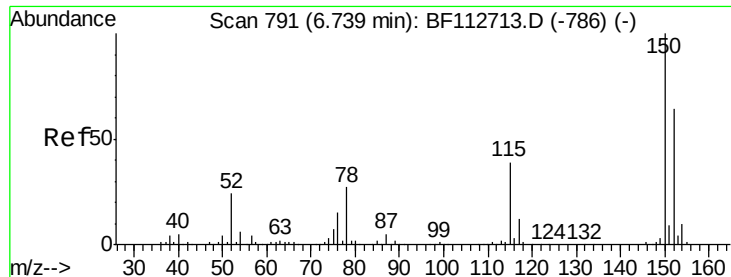
Quant Time: Mar 15 06:43:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	214021	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	815217	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	382444	20.00	ng	-0.01
64) Phenanthrene-d10	11.23	188	803832	20.00	ng	-0.01
76) Chrysene-d12	13.86	240	730902	20.00	ng	0.00
87) Perylene-d12	15.27	264	706788	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	1207853	87.79	ng	0.00
7) Phenol-d6	6.37	99	1566289	90.63	ng	0.00
23) Nitrobenzene-d5	7.29	82	972802	71.40	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	490884	120.90	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	1712354	71.04	ng	0.00
79) Terphenyl-d14	12.82	244	1948744	51.68	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	127309	11.631	ng	# 76
25) Isophorone	7.29	82	945121	32.201	ng	# 66
50) Dimethylphthalate	9.47	163	186497	6.613	ng	98
57) 2,4-Dinitrotoluene	9.76	165	48251	6.610	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.55	198	717	4.809	ng	# 1
67) 4-Bromophenyl-phenylether	10.55	248	27907	3.296	ng	# 1
71) Phenanthrene	11.26	178	132152	3.304	ng	98
75) Fluoranthene	12.44	202	432595	10.096	ng	96
78) Pyrene	12.67	202	431402	7.001	ng	99
81) Benzo(a)anthracene	13.85	228	230465	4.550	ng	97
83) Chrysene	13.89	228	219780	4.429	ng	98
86) Indeno(1,2,3-cd)pyrene	16.62	276	149186	3.527	ng	# 89
88) Benzo(b)fluoranthene	14.87	252	375063	8.204	ng	97
89) Benzo(k)fluoranthene	14.87	252	375063	9.057	ng	98
90) Benzo(a)pyrene	15.21	252	207687	5.136	ng	97
92) Benzo(g,h,i)perylene	17.03	276	147925	4.269	ng	96

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

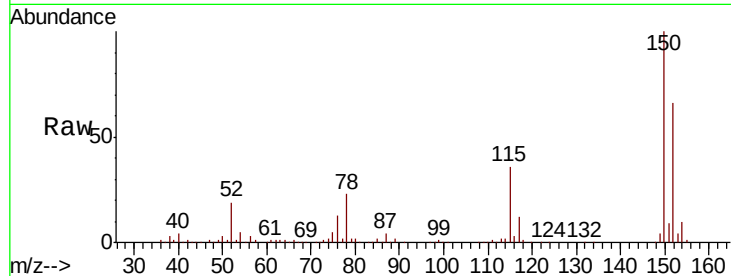


#1

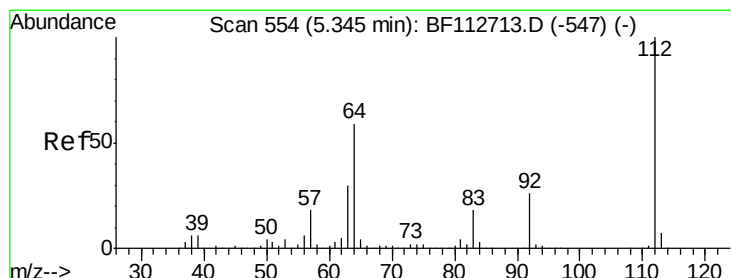
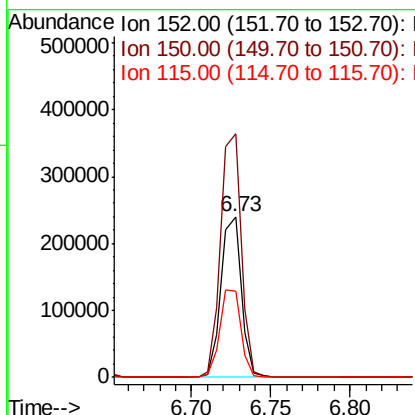
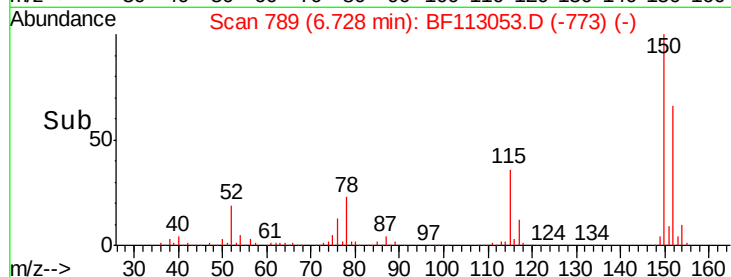
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Instrument :
 BNA_F
 ClientSampleId :
 MR-MH-03-COMP

Tot Ion:152 Resp: 214021
 Ion Ratio Lower Upper
 152 100
 150 151.6 124.2 186.2
 115 54.0 48.2 72.4



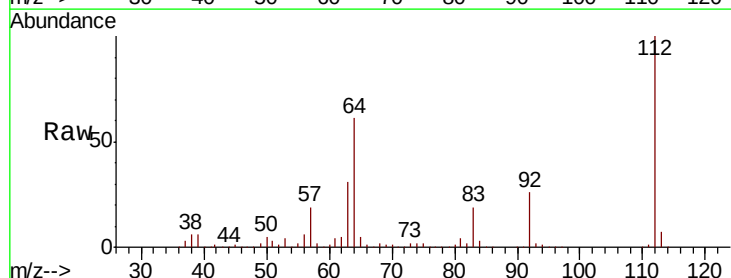
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



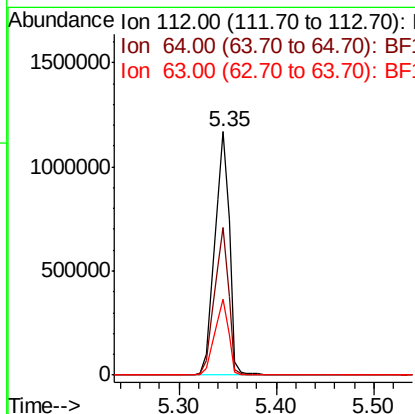
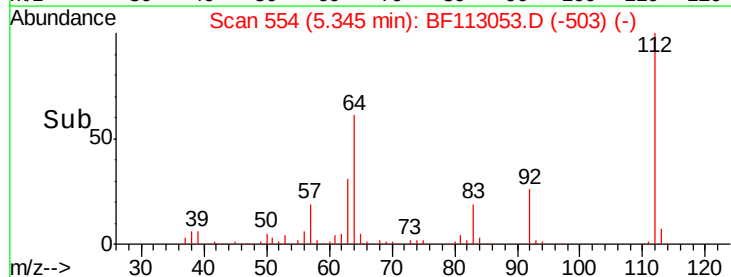
#5

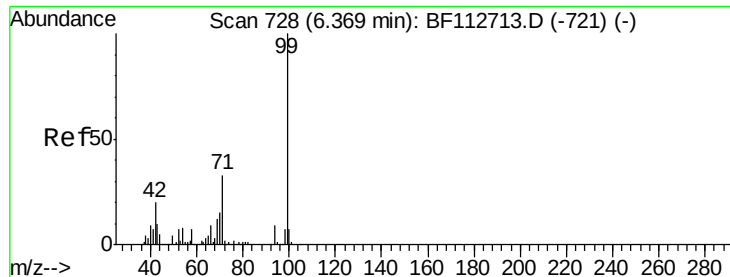
2-Fluorophenol
 Concen: 87.789 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.00 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Tgt Ion:112 Resp: 1207853
 Ion Ratio Lower Upper
 112 100
 64 60.7 47.6 71.4
 63 31.3 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: 90.626 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.00 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

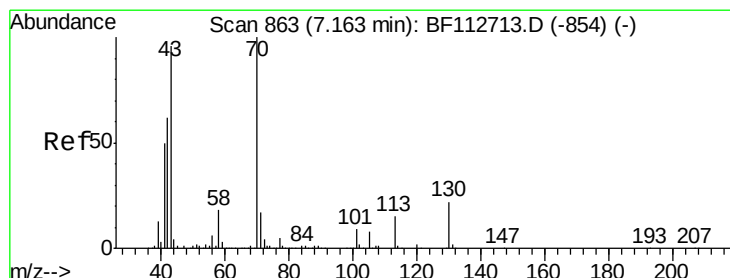
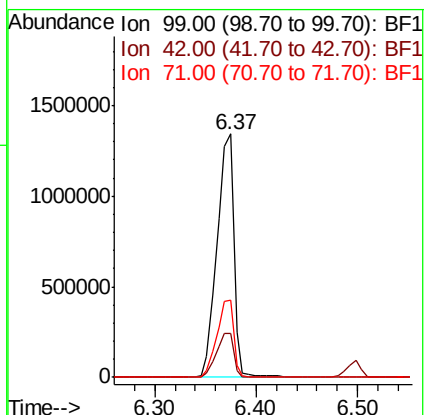
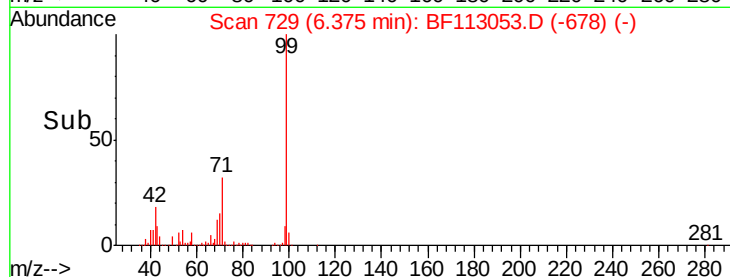
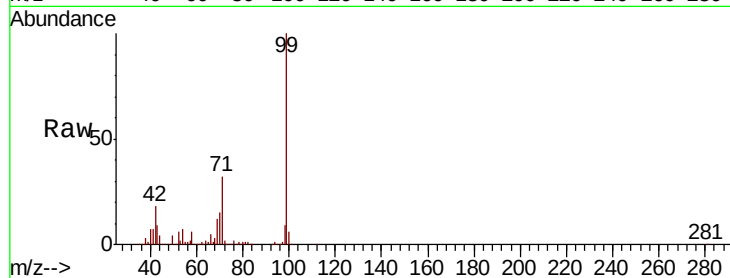
Tot Ion: 99 Resp: 1566289

Ion Ratio Lower Upper

99 100

42 18.2 16.3 24.5

71 31.9 26.2 39.4



#19

n-Nitroso-di-n-propylamine

Concen: 11.631 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Tgt Ion: 70 Resp: 127309

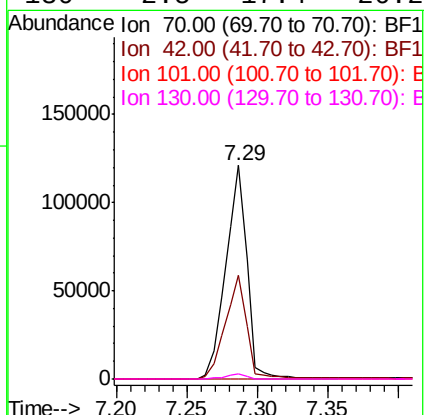
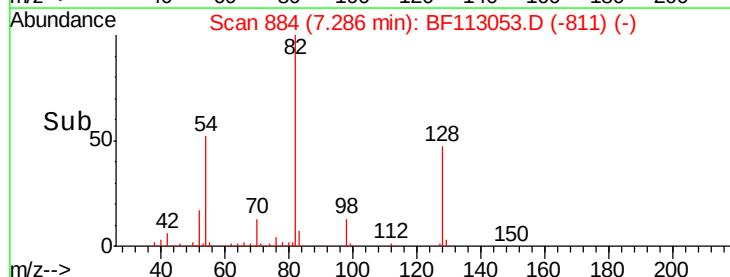
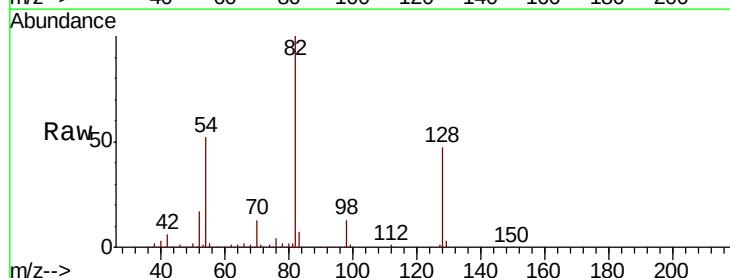
Ion Ratio Lower Upper

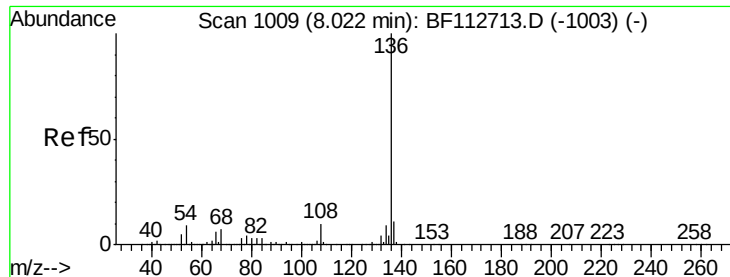
70 100

42 48.3 49.9 74.9#

101 0.0 7.4 11.2#

130 2.5 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: BF113053.D

Acq: 14 Mar 2019 16:50

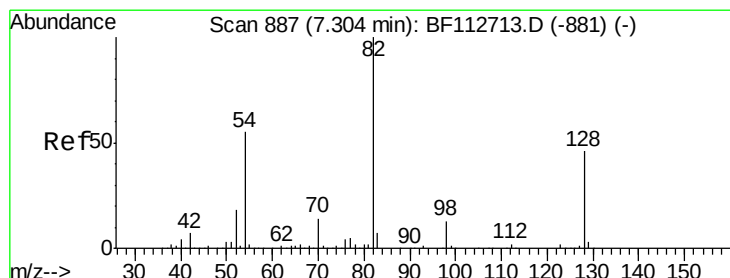
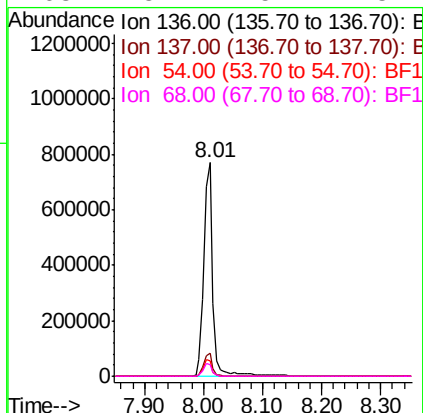
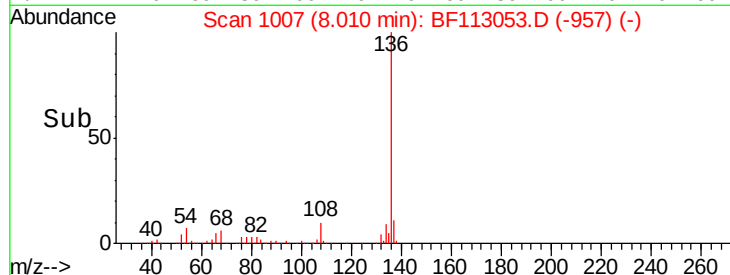
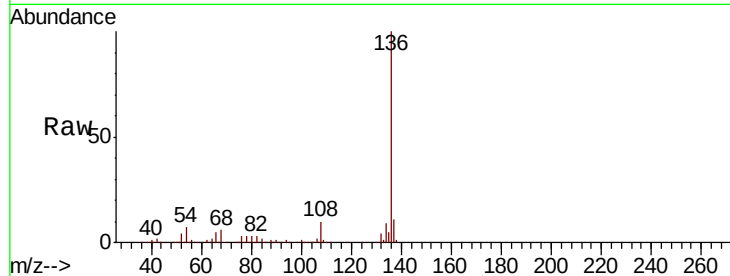
Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

Tot Ion:136	Resp:	815217
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.9 13.3
54	7.3	7.3 10.9#
68	5.7	5.4 8.2



#23

Nitrobenzene-d5

Concen: 71.405 ng

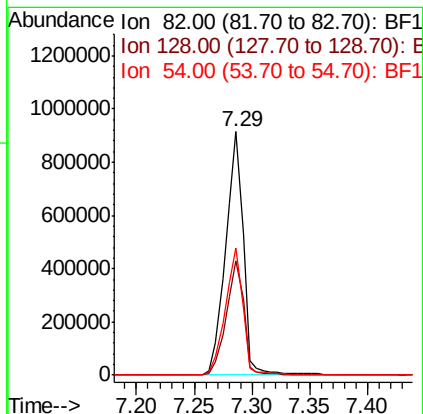
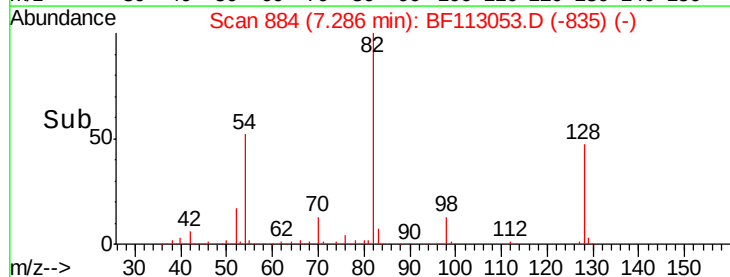
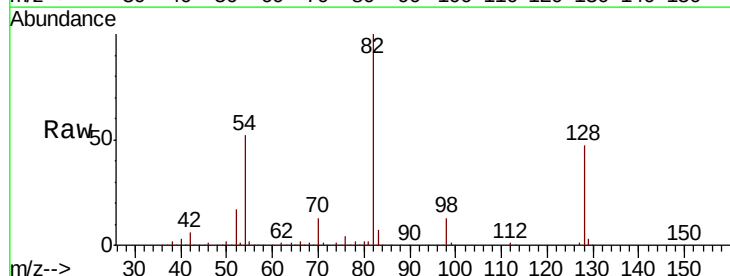
RT: 7.29 min Scan# 884

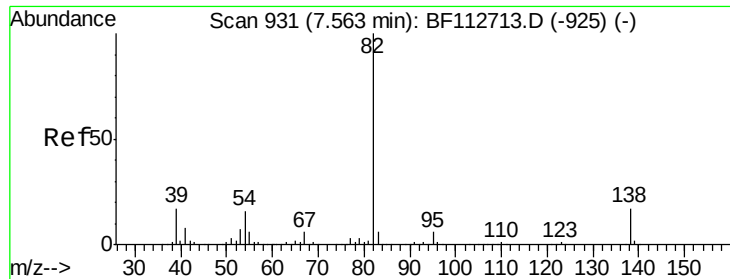
Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Tgt Ion: 82	Resp:	972802
Ion Ratio	Lower	Upper
82	100	
128	46.7	36.3 54.5
54	52.4	43.7 65.5





#25

Isophorone

Concen: 32.201 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.27 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

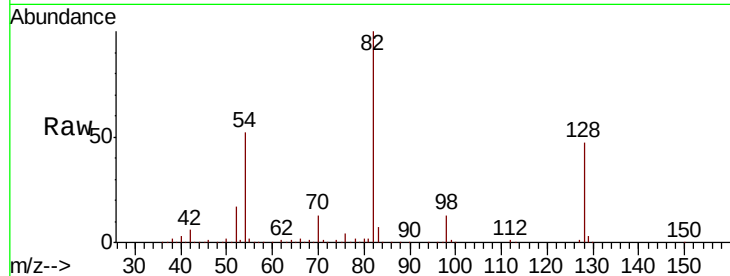
Tot Ion: 82 Resp: 945121

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

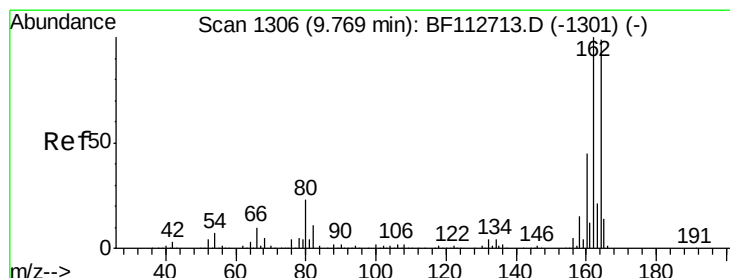
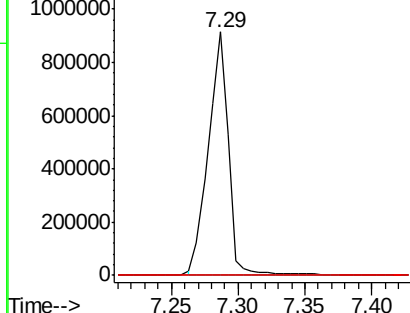
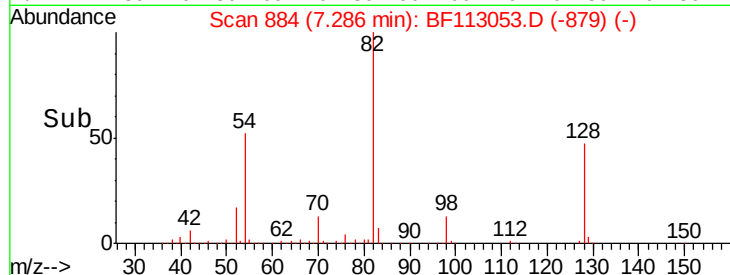
138 0.0 13.8 20.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

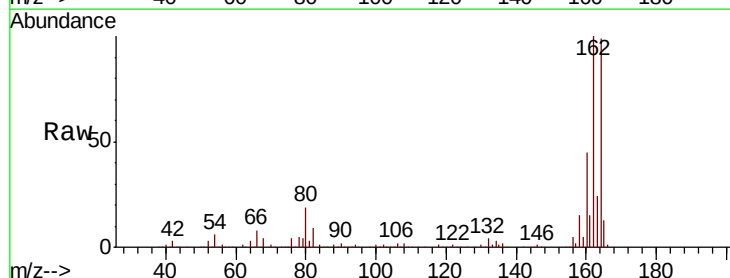
Tgt Ion:164 Resp: 382444

Ion Ratio Lower Upper

164 100

162 101.4 80.6 120.8

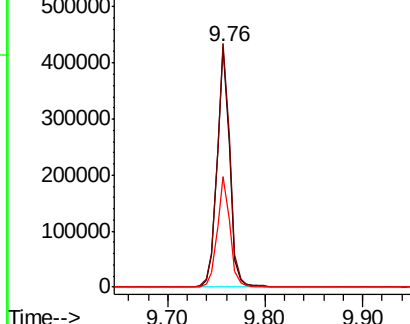
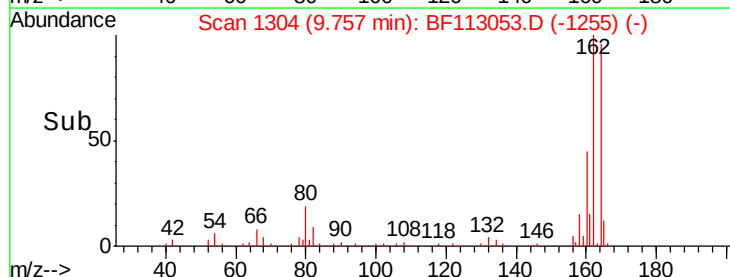
160 45.8 36.0 54.0

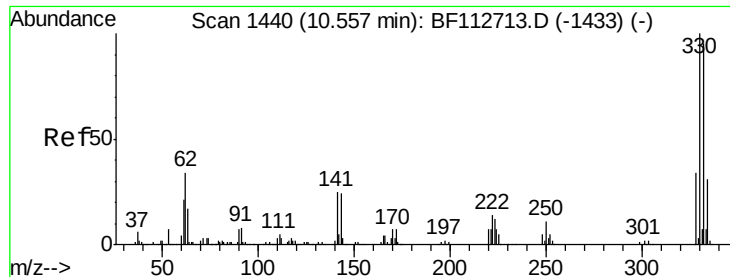


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 120.904 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

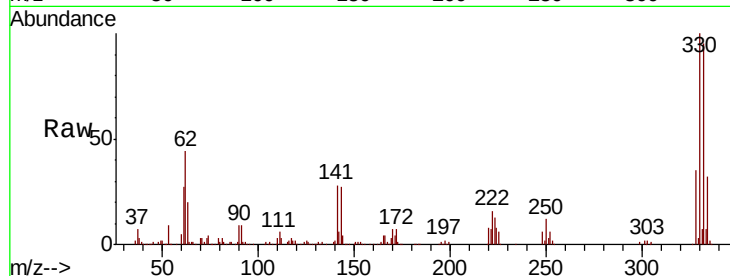
Tot Ion:330 Resp: 490884

Ion Ratio Lower Upper

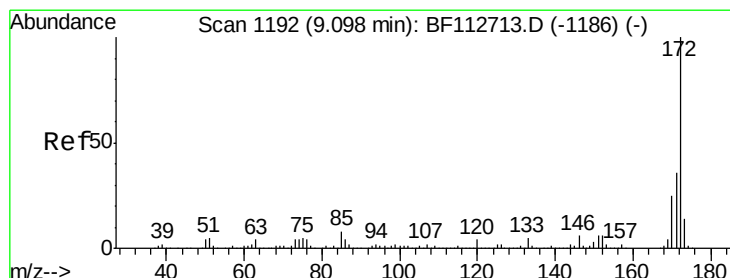
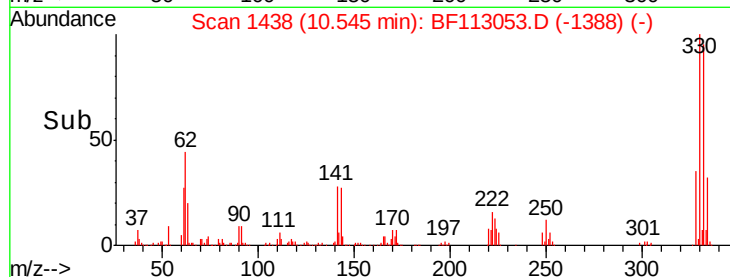
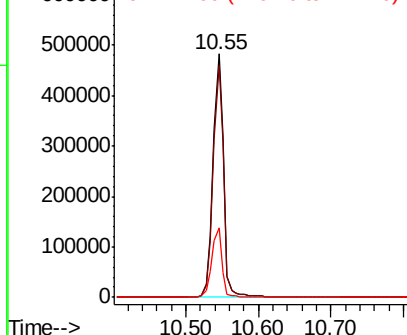
330 100

332 94.4 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: 71.038 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

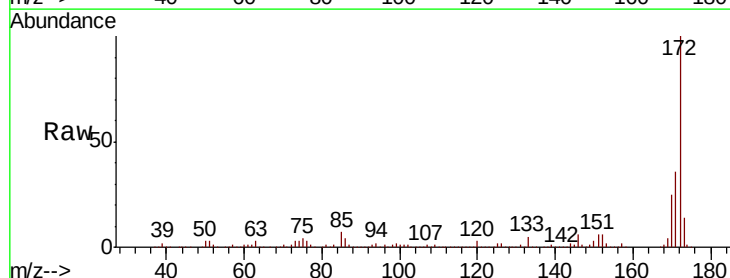
Tgt Ion:172 Resp: 1712354

Ion Ratio Lower Upper

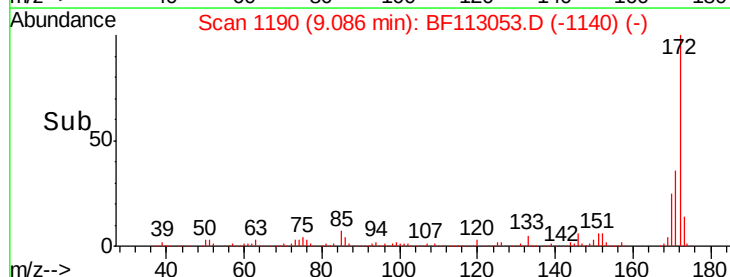
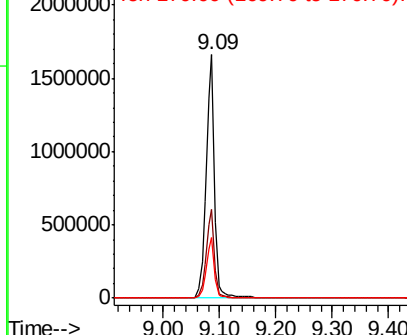
172 100

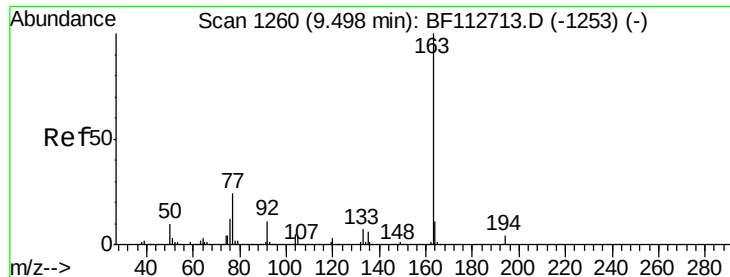
171 36.3 29.0 43.4

170 24.8 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: 6.613 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

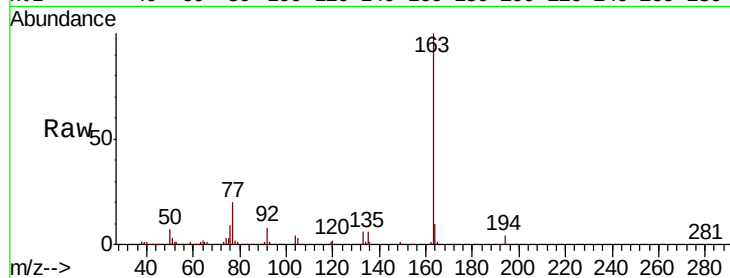
Tot Ion:163 Resp: 186497

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.4

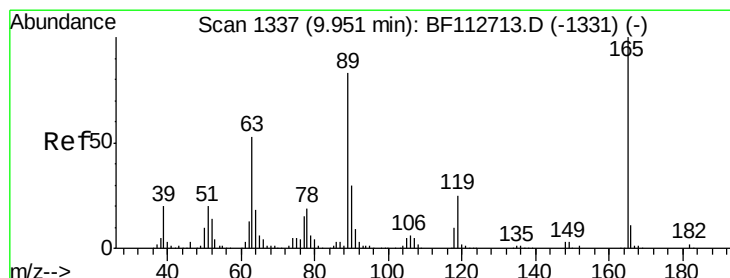
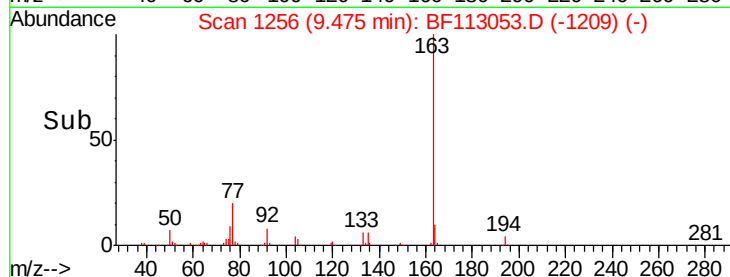
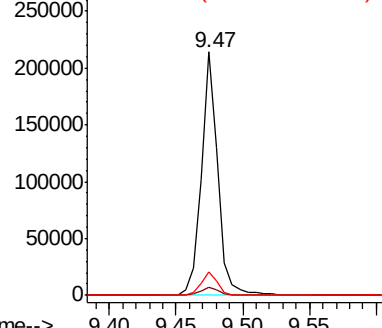
164 9.7 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.610 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.20 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Tgt Ion:165 Resp: 48251

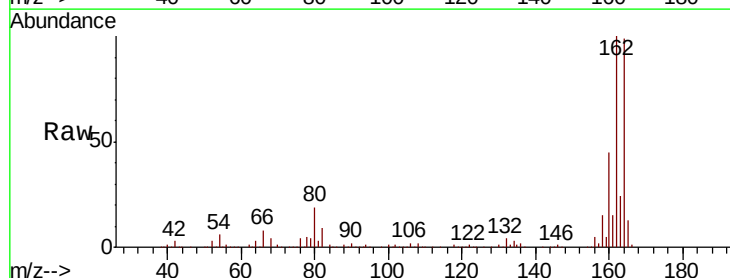
Ion Ratio Lower Upper

165 100

63 0.9 42.2 63.2#

89 1.7 66.2 99.4#

182 0.0 1.8 2.6#

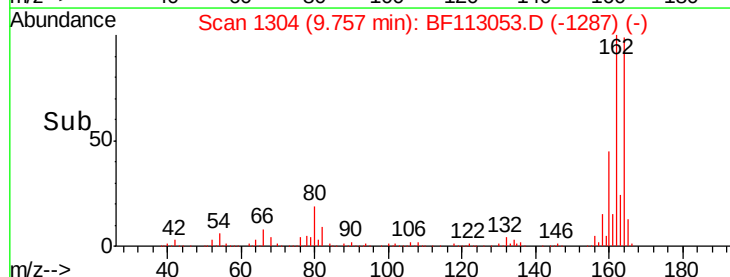
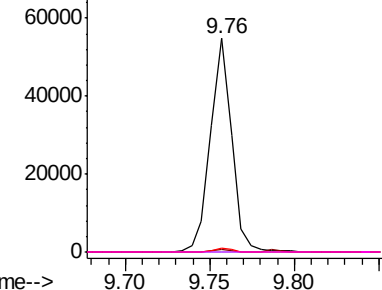


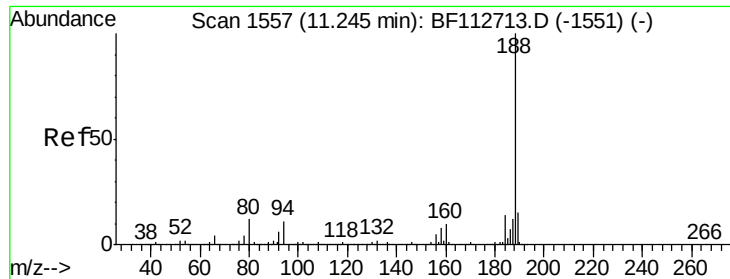
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

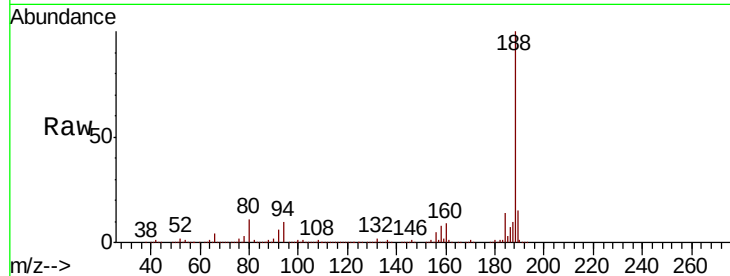
Tot Ion:188 Resp: 803832

Ion Ratio Lower Upper

188 100

94 10.3 9.0 13.4

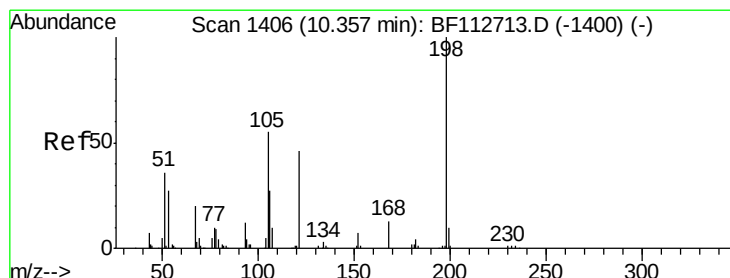
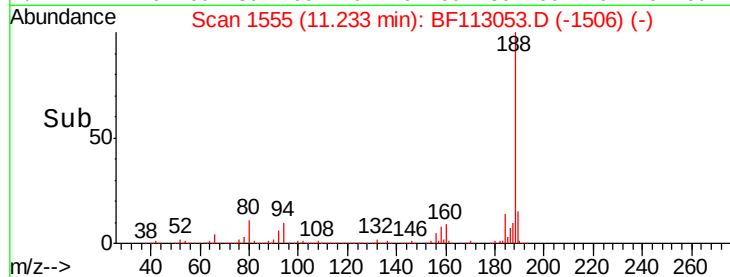
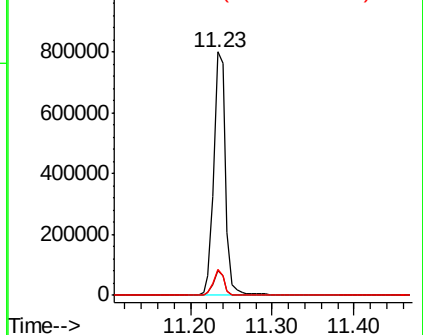
80 10.8 9.2 13.8



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: 4.809 ng

RT: 10.55 min Scan# 1438

Delta R.T. 0.18 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

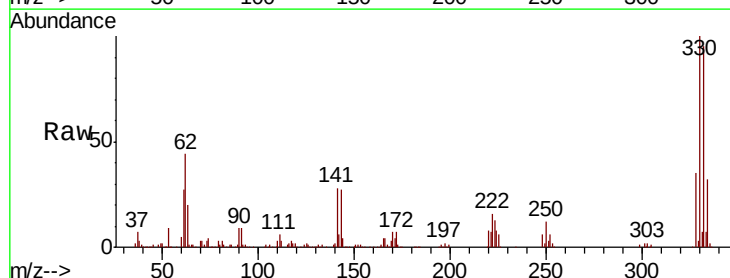
Tgt Ion:198 Resp: 717

Ion Ratio Lower Upper

198 100

51 245.9 43.8 83.8#

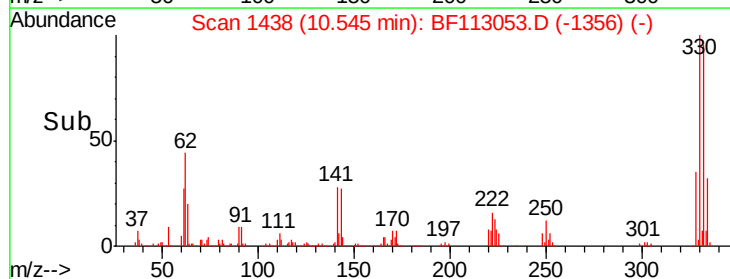
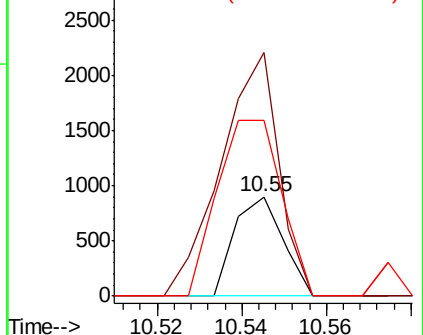
105 177.0 36.5 76.5#

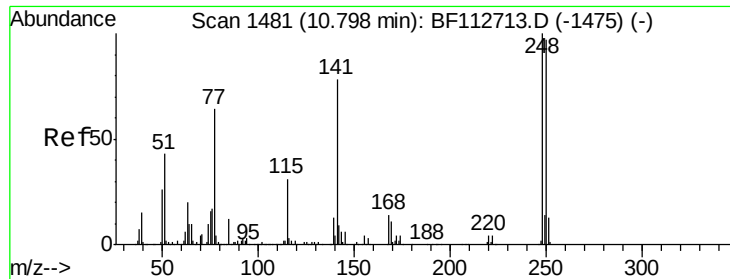


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

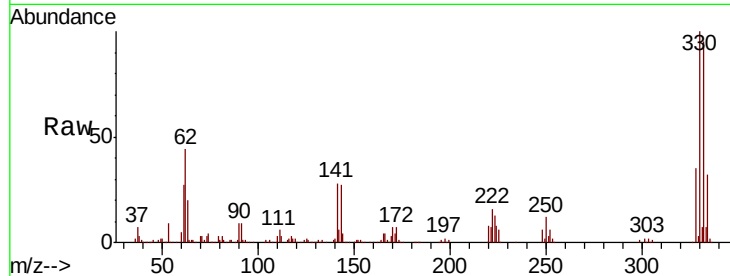




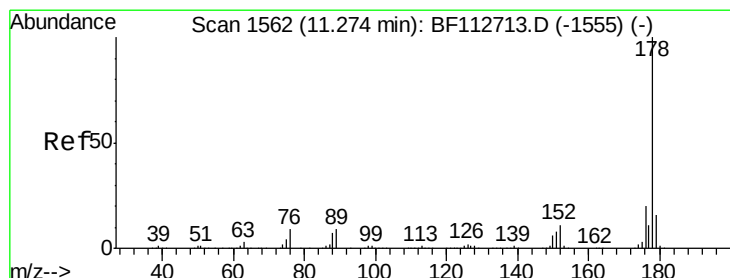
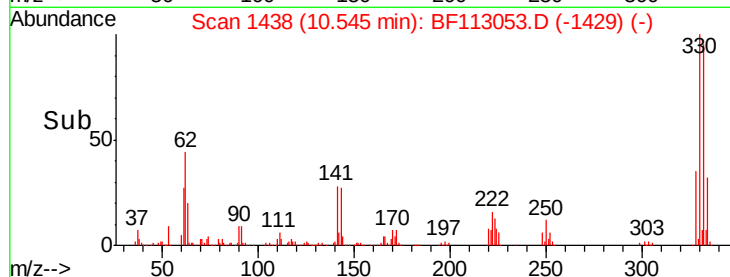
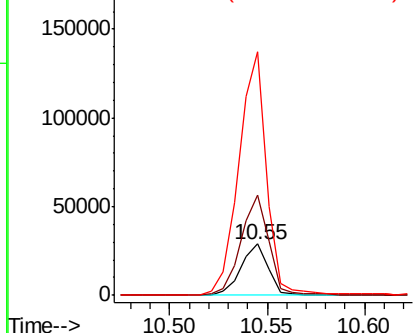
#67
 4-Bromophenyl-phenylether
 Concen: 3.296 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.25 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Instrument :
 BNA_F
 ClientSampleId :
 MR-MH-03-COMP

Tot Ion:248 Resp: 27907
 Ion Ratio Lower Upper
 248 100
 250 195.8 77.5 116.3#
 141 477.3 62.4 93.6#

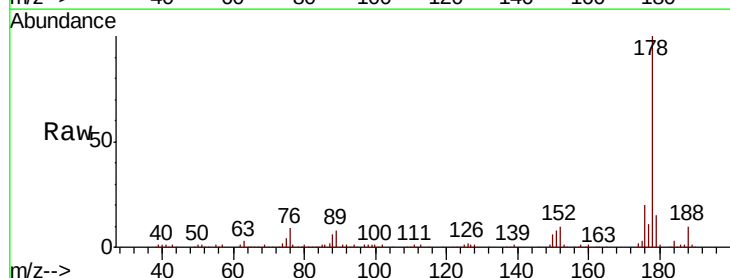


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

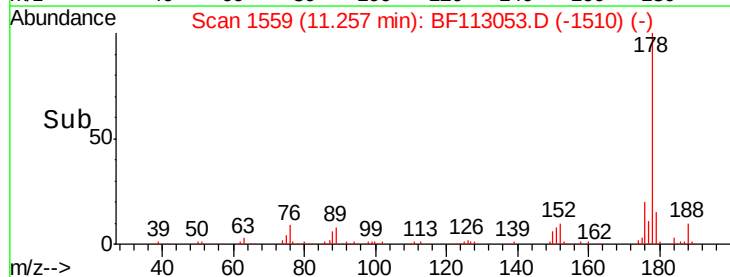
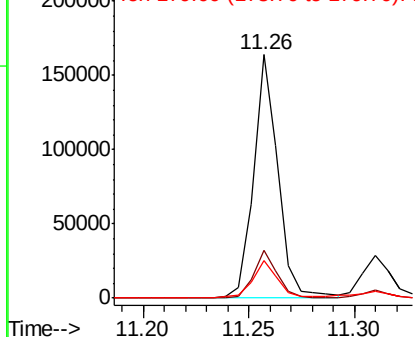


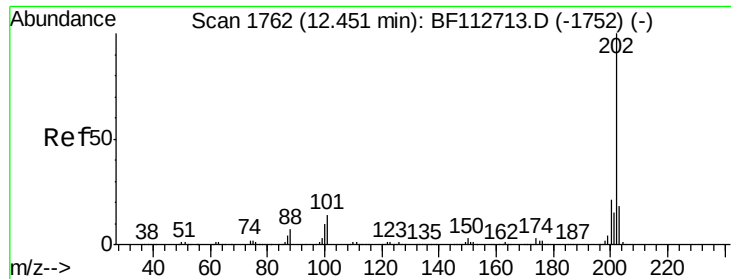
#71
 Phenanthrene
 Concen: 3.304 ng
 RT: 11.26 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Tgt Ion:178 Resp: 132152
 Ion Ratio Lower Upper
 178 100
 176 19.5 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





#75

Fluoranthene

Concen: 10.096 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

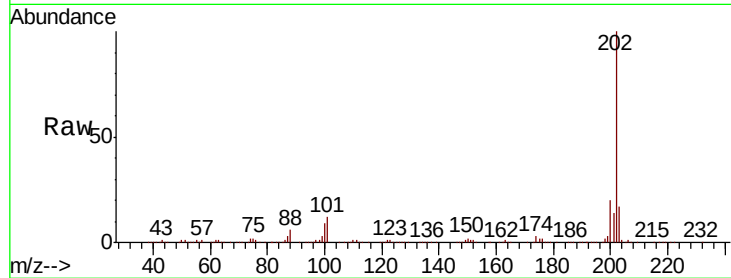
Tot Ion:202 Resp: 432595

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.8

203 17.4 0.0 38.4

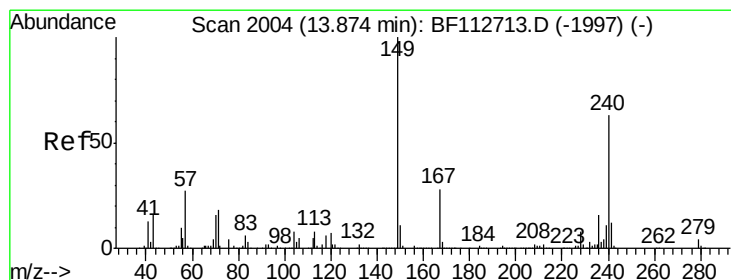
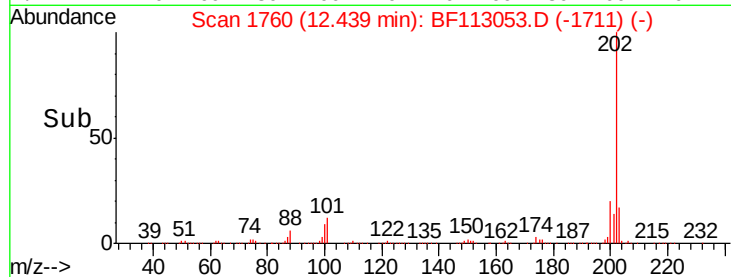
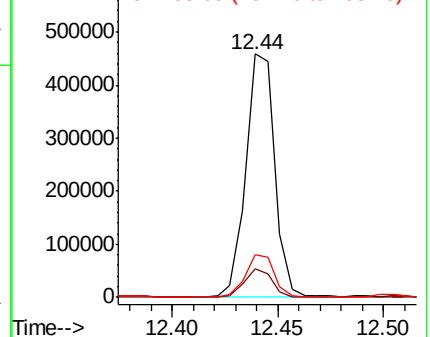


Abundance

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: BF113053.D

Acq: 14 Mar 2019 16:50

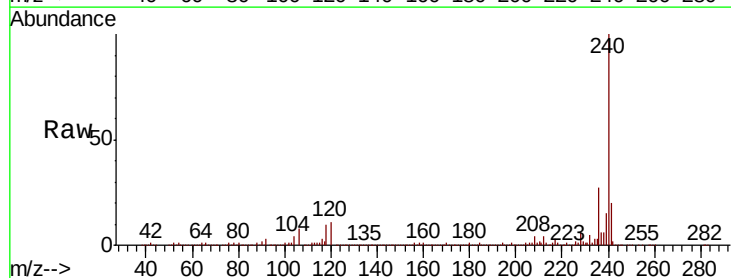
Tgt Ion:240 Resp: 730902

Ion Ratio Lower Upper

240 100

120 11.0 8.9 13.3

236 26.6 20.7 31.1

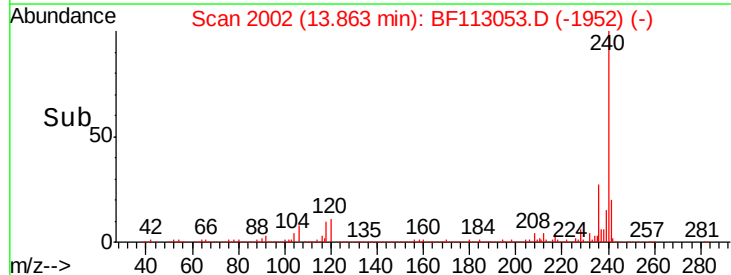
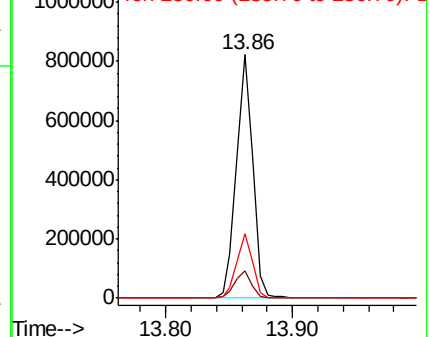


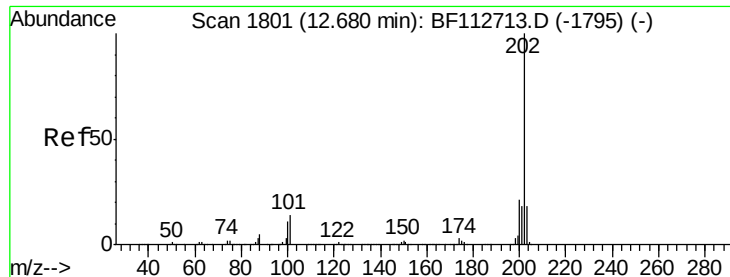
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

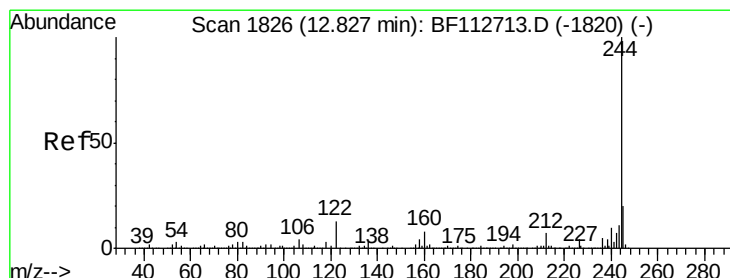
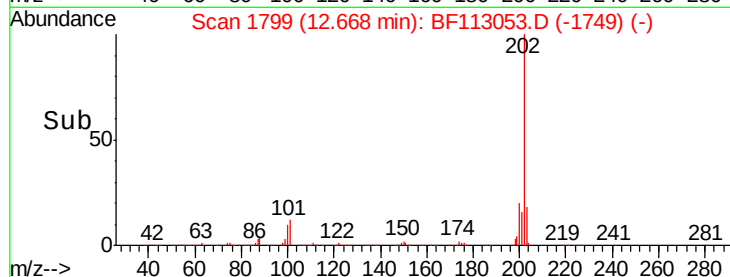
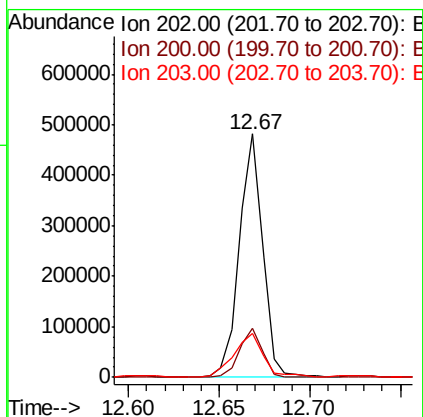
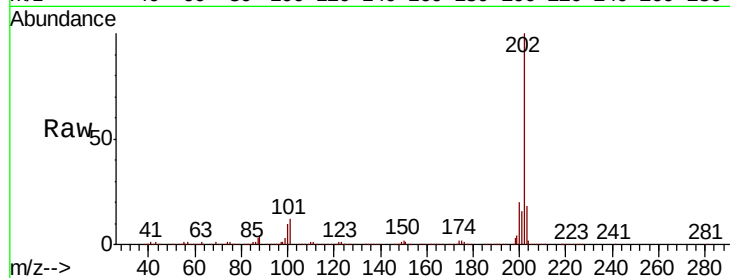




#78
Pvrene
Concen: 7.001 ng
RT: 12.67 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

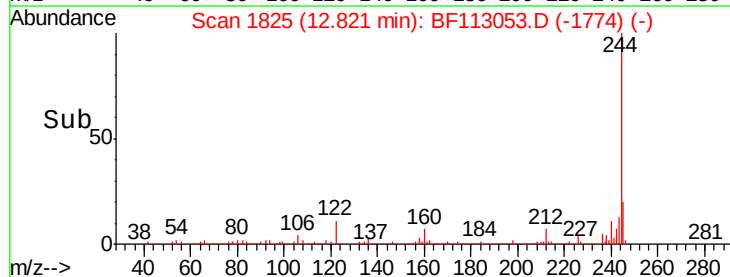
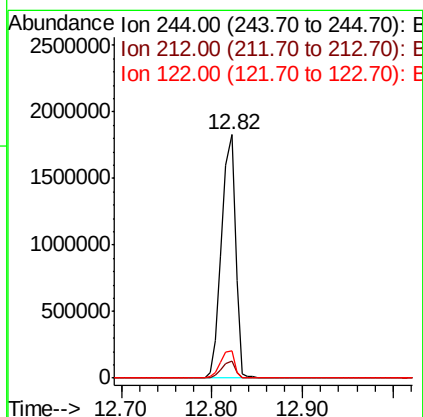
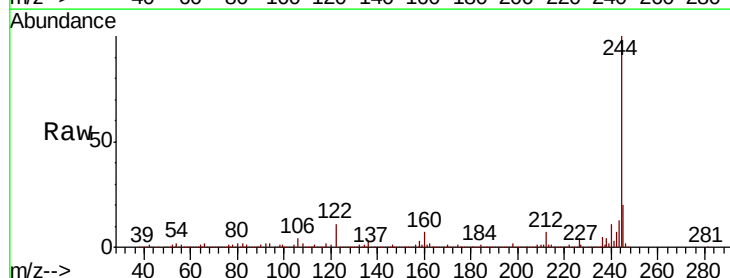
Instrument :
BNA_F
ClientSampleId :
MR-MH-03-COMP

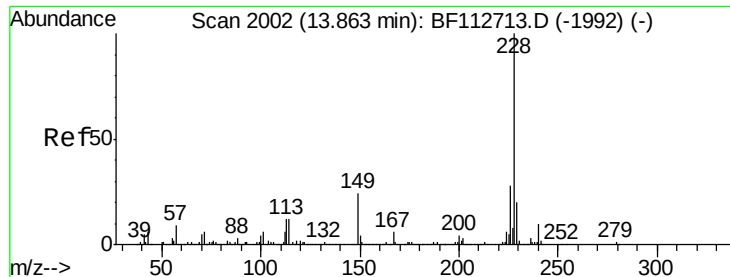
Tot Ion:202 Resp: 431402
Ion Ratio Lower Upper
202 100
200 20.3 17.0 25.4
203 18.3 14.4 21.6



#79
Terphenyl-d14
Concen: 51.685 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.00 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

Tgt Ion:244 Resp: 1948744
Ion Ratio Lower Upper
244 100
212 7.1 5.6 8.4
122 11.2 10.5 15.7





#81

Benzo(a)anthracene

Concen: 4.550 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

Instrument :

BNA_F

ClientSampleId :

MR-MH-03-COMP

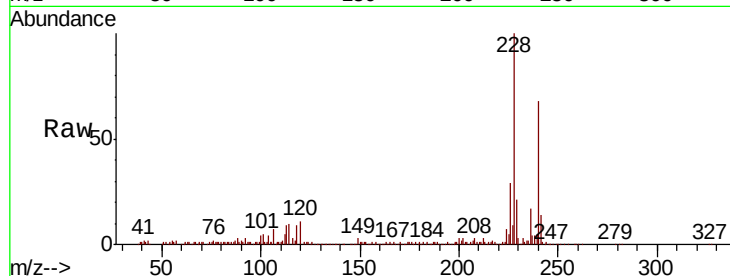
Tot Ion:228 Resp: 230465

Ion Ratio Lower Upper

228 100

226 29.3 22.2 33.4

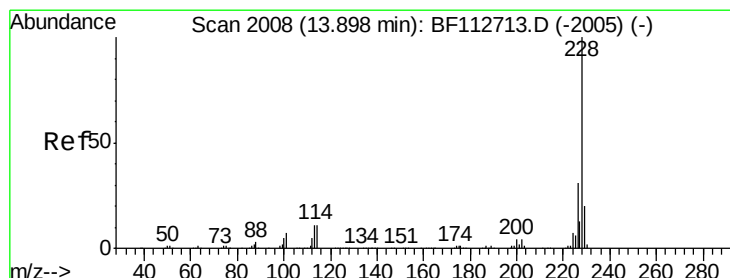
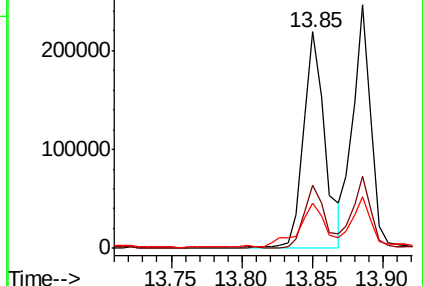
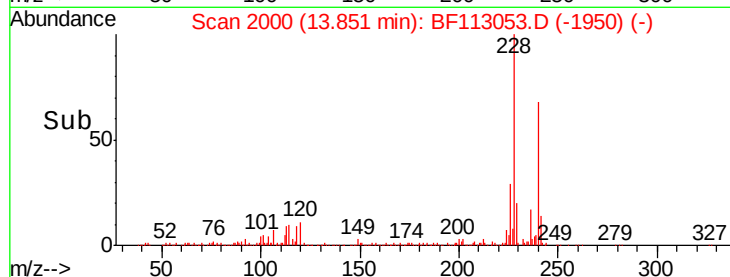
229 21.2 16.0 24.0



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: 4.429 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF113053.D

Acq: 14 Mar 2019 16:50

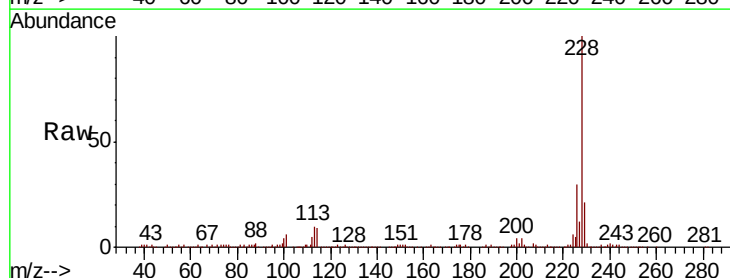
Tgt Ion:228 Resp: 219780

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

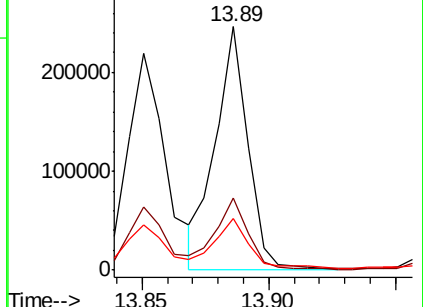
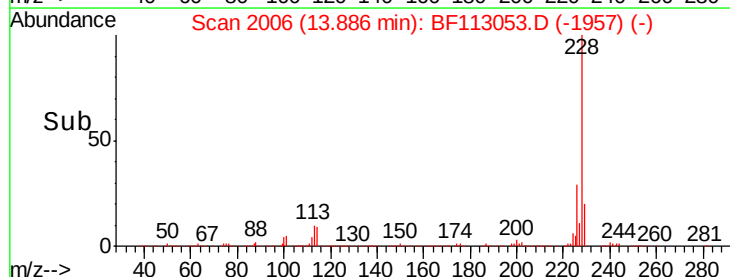
229 21.2 16.3 24.5

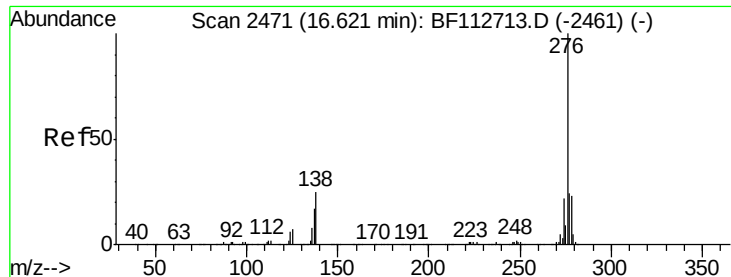


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

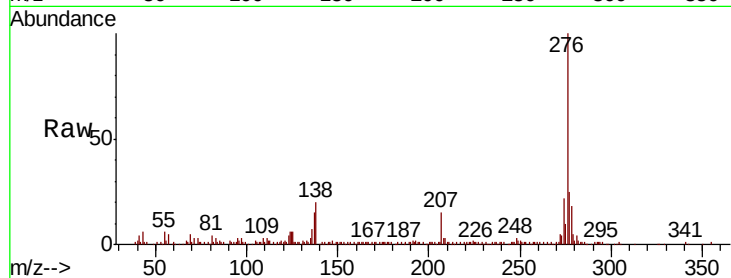




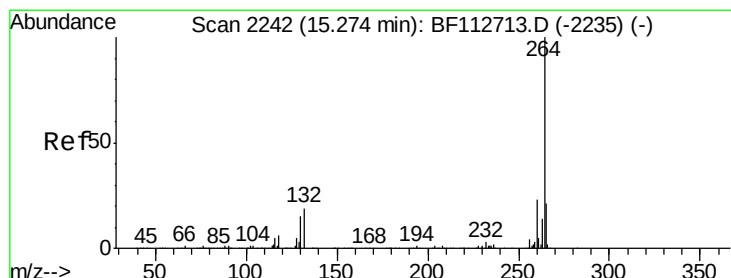
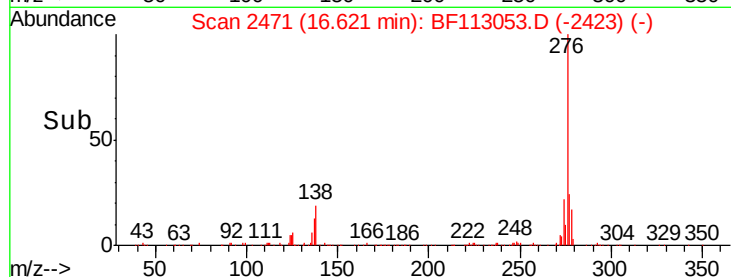
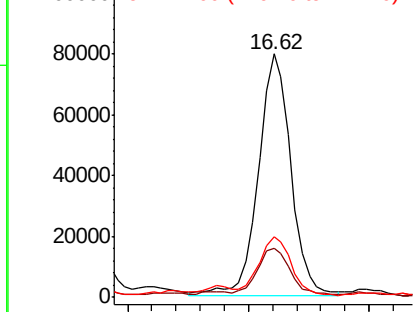
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.527 ng
 RT: 16.62 min Scan# 2471
 Delta R.T. -0.02 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Instrument :
 BNA_F
 ClientSampleId :
 MR-MH-03-COMP

Tot Ion:276 Resp: 149186
 Ion Ratio Lower Upper
 276 100
 138 19.7 23.2 34.8#
 277 23.5 19.9 29.9

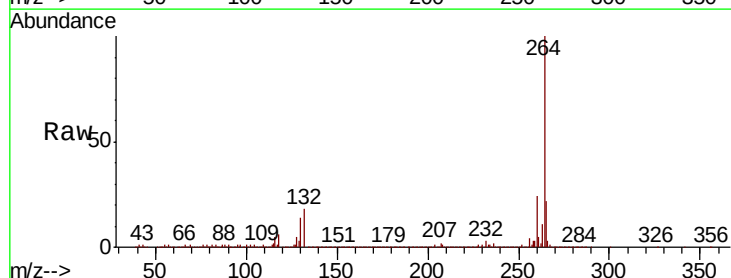


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

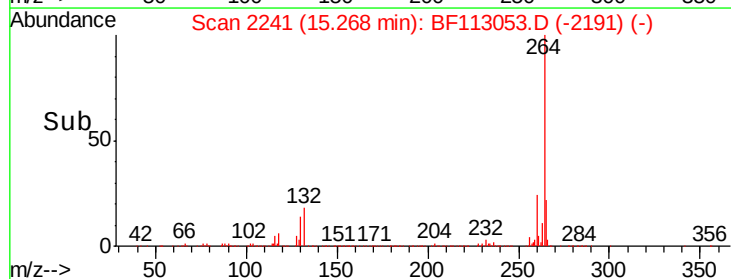
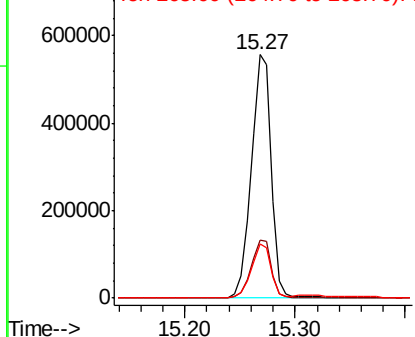


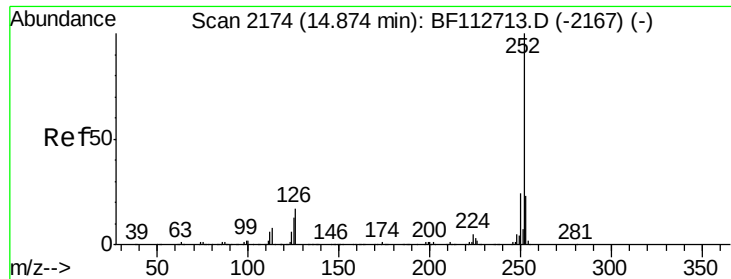
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2241
 Delta R.T. -0.01 min
 Lab File: BF113053.D
 Acq: 14 Mar 2019 16:50

Tgt Ion:264 Resp: 706788
 Ion Ratio Lower Upper
 264 100
 260 24.0 18.7 28.1
 265 22.1 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

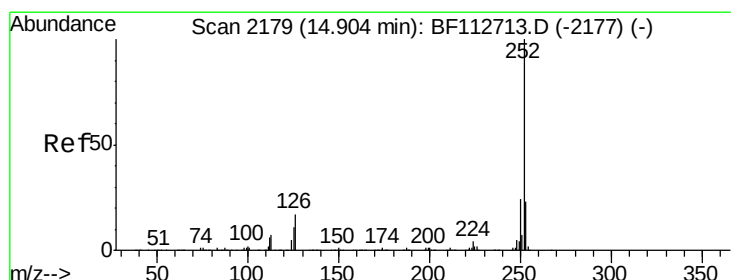
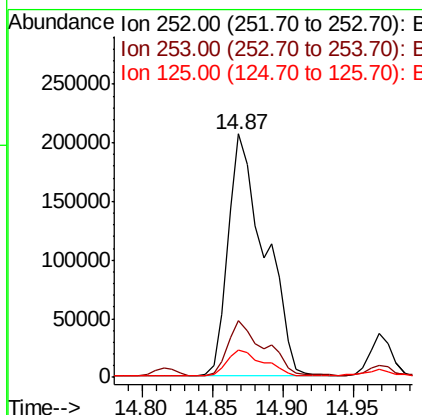
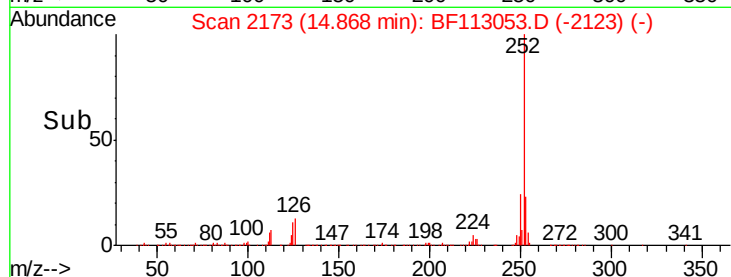
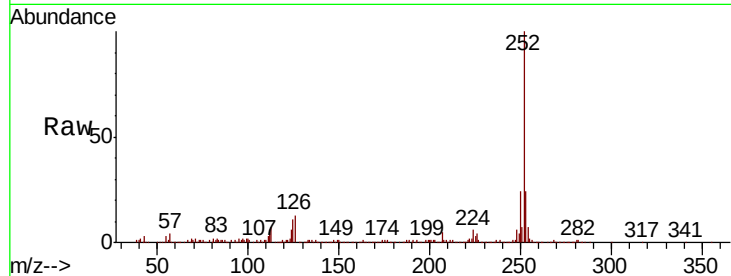




#88
Benzo(b)fluoranthene
Concen: 8.204 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

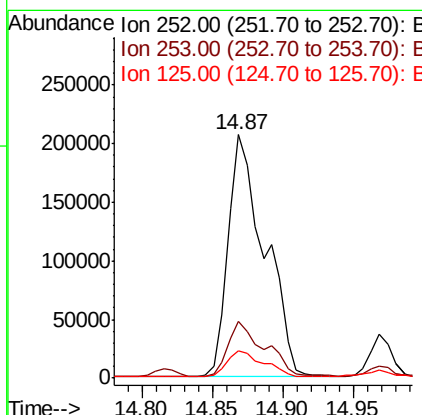
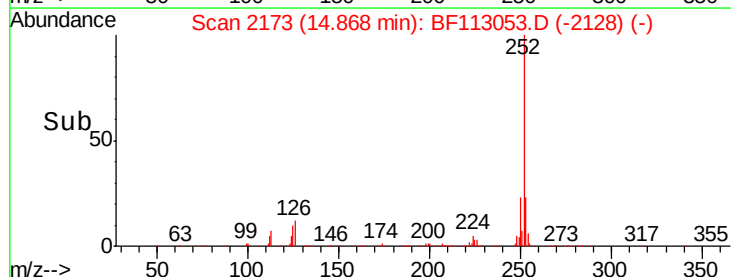
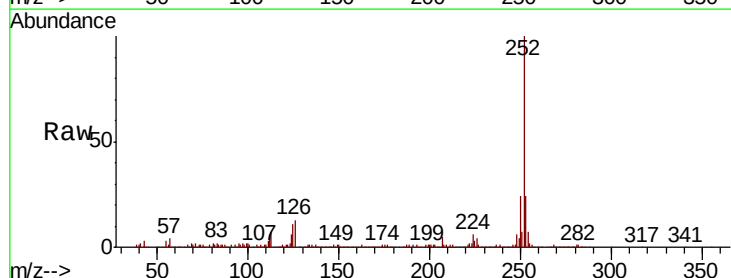
Instrument :
BNA_F
ClientSampleId :
MR-MH-03-COMP

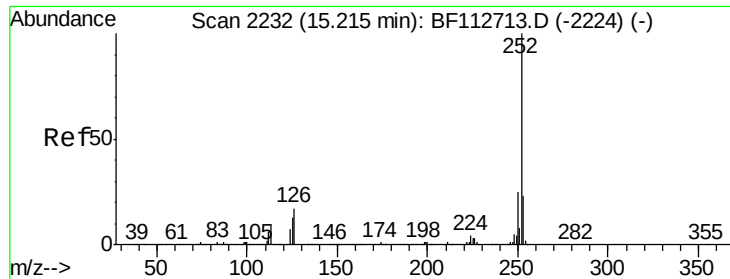
Tot Ion:252 Resp: 375063
Ion Ratio Lower Upper
252 100
253 23.6 18.0 27.0
125 11.3 10.2 15.2



#89
Benzo(k)fluoranthene
Concen: 9.057 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

Tgt Ion:252 Resp: 375063
Ion Ratio Lower Upper
252 100
253 23.6 18.2 27.2
125 11.3 9.8 14.6

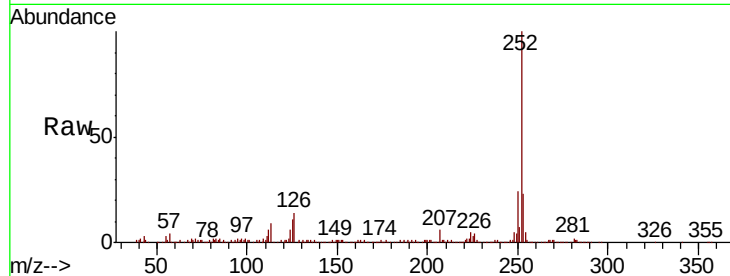




#90
Benzo(a)pyrene
Concen: 5.136 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

Instrument :
BNA_F
ClientSampleId :
MR-MH-03-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	11.1	10.7	16.1

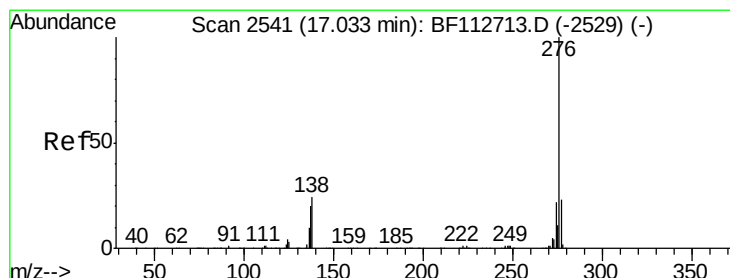
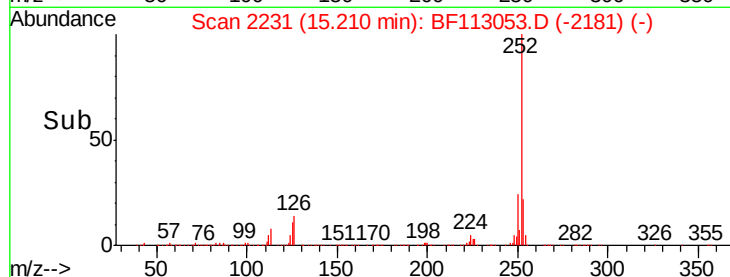
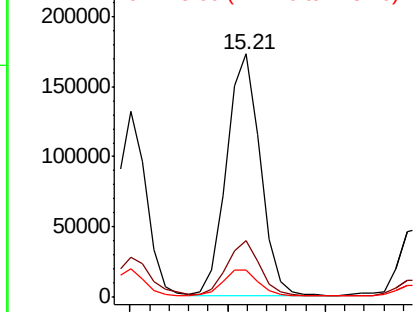


Abundance

Ion 252.00 (251.70 to 252.70): E

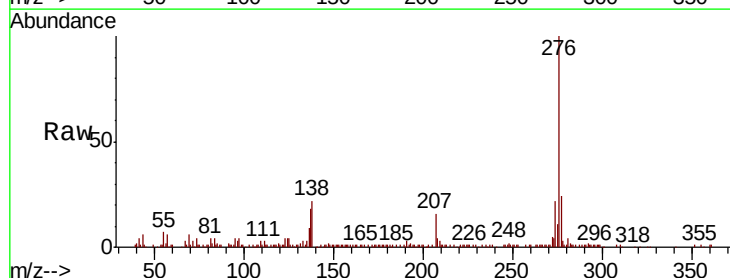
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 4.269 ng
RT: 17.03 min Scan# 2540
Delta R.T. -0.02 min
Lab File: BF113053.D
Acq: 14 Mar 2019 16:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	27.8
138	21.5	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

