

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF013016\
 Data File : BF084689.D
 Acq On : 30 Jan 2016 16:41
 Operator : SJ/IZ
 Sample : H1273-09 5X
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B011(10-12)

Quant Time: Feb 01 00:29:13 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 29 12:54:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	167440	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	563399	20.00	ng	-0.01
38) Acenaphthene-d10	9.76	164	224962	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	364784	20.00	ng	0.00
75) Chrysene-d12	13.87	240	359297	20.00	ng	0.00
86) Perylene-d12	15.27	264	399087	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.31	112	243306	21.93	ng	0.00
7) Phenol-d6	6.37	99	305437	22.97	ng	0.00
23) Nitrobenzene-d5	7.29	82	189403	18.79	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	43761	18.56	ng	-0.01
44) 2-Fluorobiphenyl	9.09	172	300586	19.86	ng	0.00
78) Terphenyl-d14	12.83	244	216135	13.59	ng	0.00

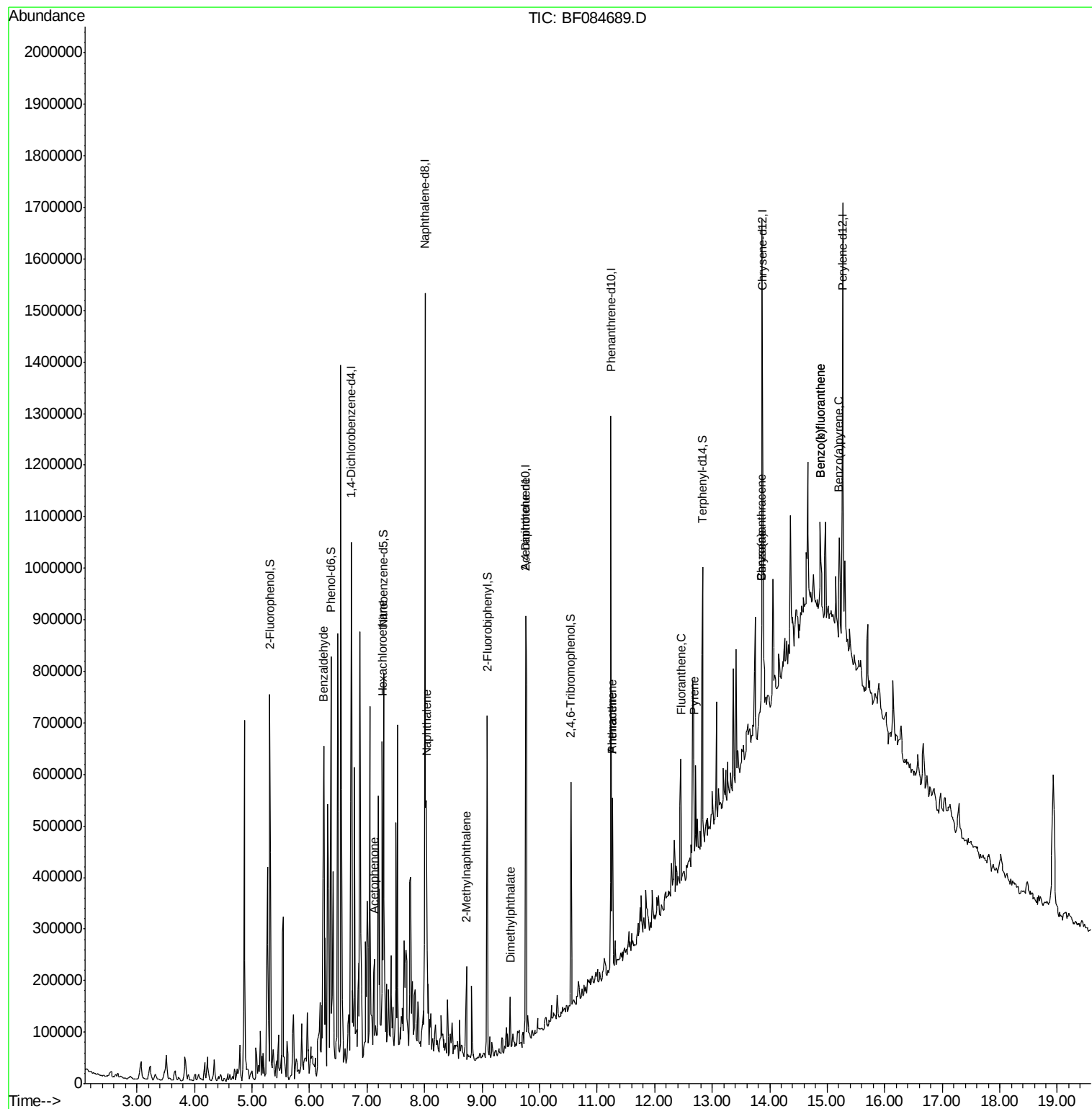
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.25	77	40005	5.20	ng	# 1
18) Hexachloroethane	7.26	117	26701	5.28	ng	# 1
22) Acetophenone	7.13	105	55781	3.79	ng	# 56
31) Naphthalene	8.03	128	134534	4.73	ng	98
37) 2-Methylnaphthalene	8.73	142	58877	3.37	ng	98
49) Dimethylphthalate	9.49	163	55969	3.31	ng	# 92
56) 2,4-Dinitrotoluene	9.76	165	32021	6.63	ng	# 22
70) Phenanthrene	11.26	178	119879	5.94	ng	99
71) Anthracene	11.26	178	119879	5.85	ng	100
74) Fluoranthene	12.45	202	121322	6.08	ng	94
77) Pyrene	12.68	202	133075	4.91	ng	98
80) Benzo(a)anthracene	13.86	228	81216	3.63	ng	# 88
82) Chrysene	13.86	228	81216	3.68	ng	# 92
87) Benzo(b)fluoranthene	14.88	252	97495	3.77	ng	# 72
88) Benzo(k)fluoranthene	14.88	252	97495	4.57	ng	# 77
89) Benzo(a)pyrene	15.21	252	59545	2.66	ng	# 84

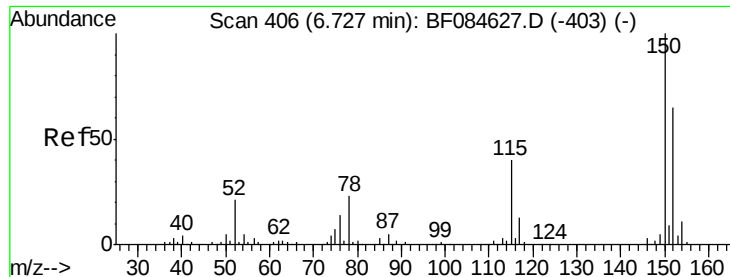
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

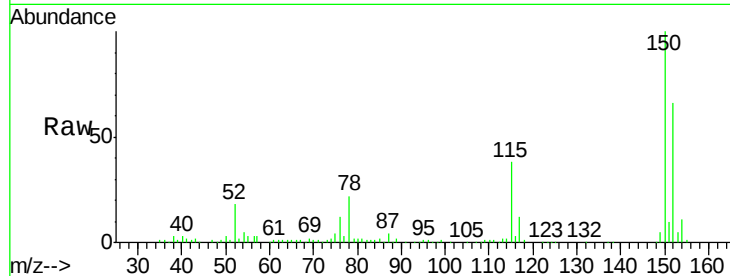
Tgt Ion:152 Resp: 167440

Ion Ratio Lower Upper

152 100

150 151.2 123.0 184.4

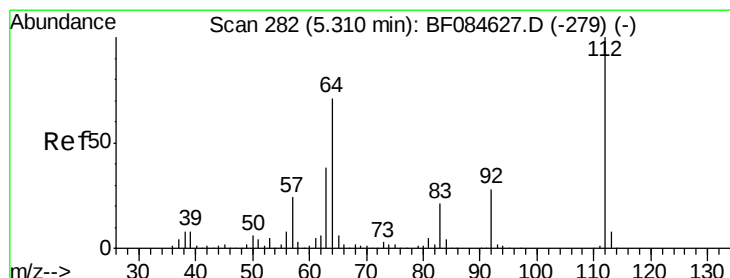
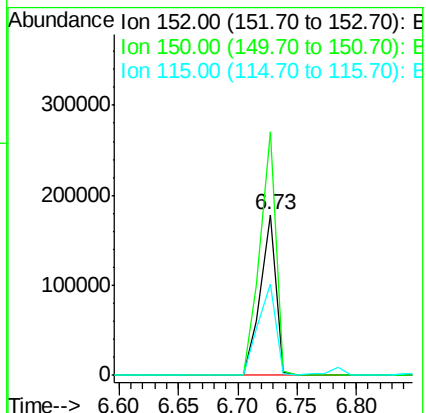
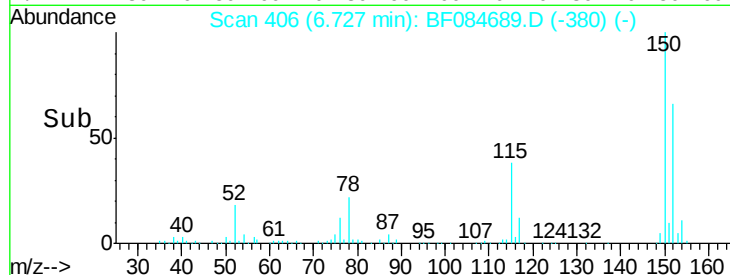
115 57.1 51.4 77.2



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: 21.93 ng

RT: 5.31 min Scan# 282

Delta R.T. 0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

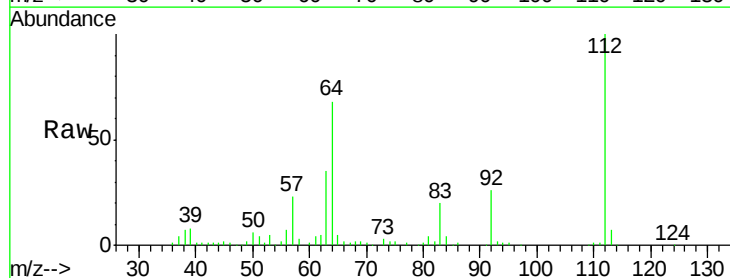
Tgt Ion:112 Resp: 243306

Ion Ratio Lower Upper

112 100

64 68.0 36.6 55.0#

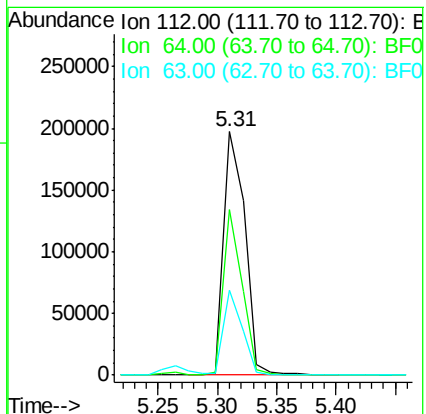
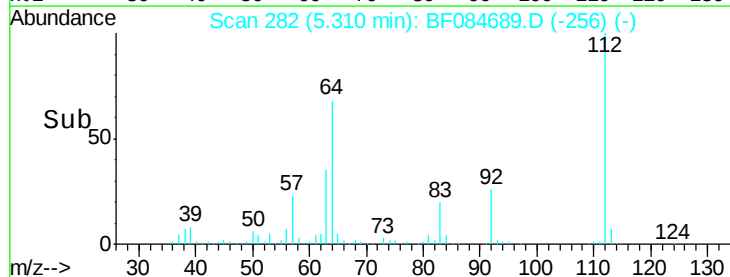
63 34.9 19.4 29.0#

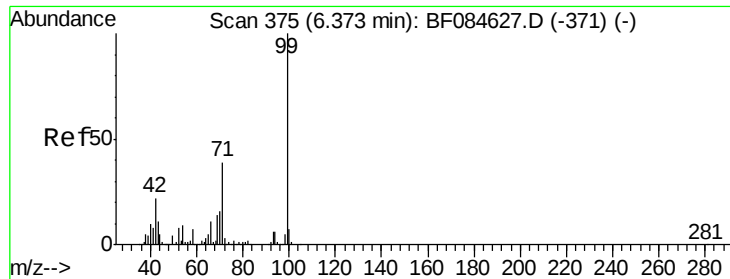


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.97 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

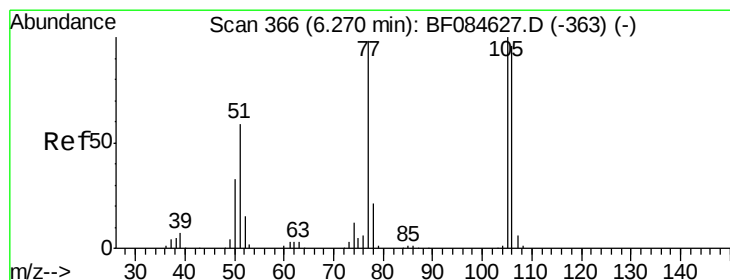
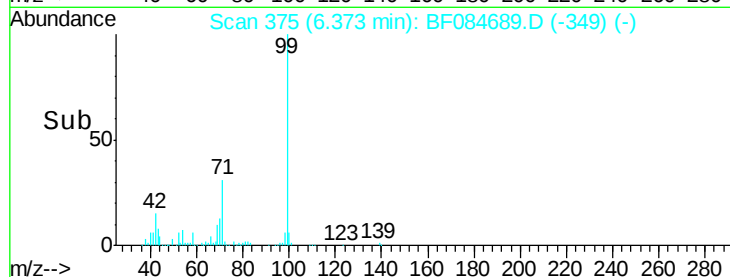
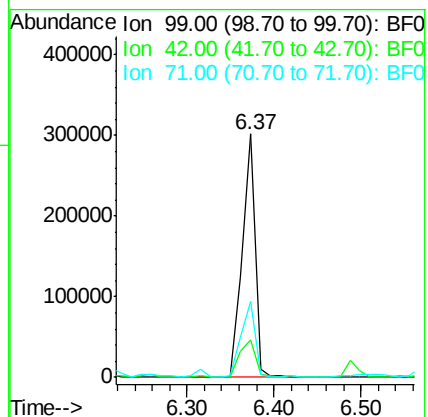
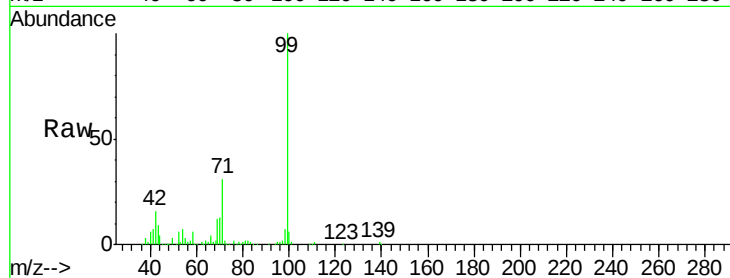
Tgt Ion: 99 Resp: 305437

Ion Ratio Lower Upper

99 100

42 15.7 12.8 19.2

71 31.0 30.9 46.3



#9

Benzaldehyde

Concen: 5.20 ng

RT: 6.25 min Scan# 364

Delta R.T. -0.02 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

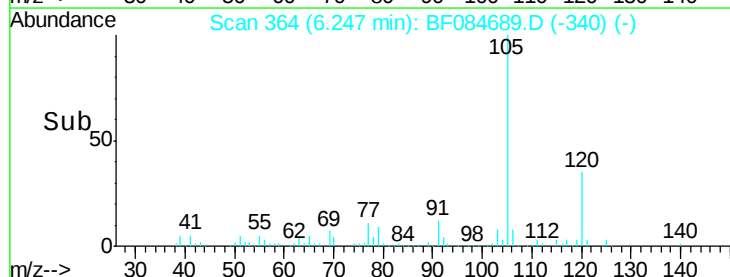
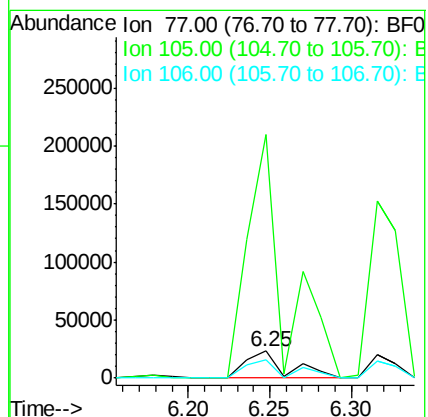
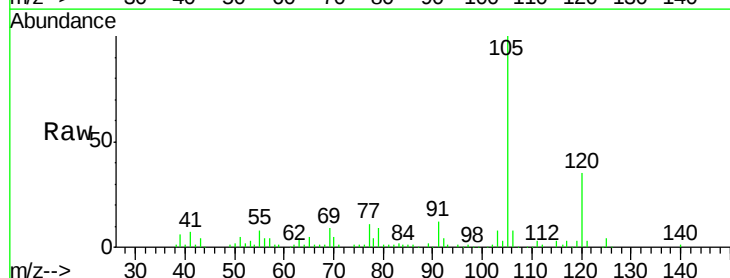
Tgt Ion: 77 Resp: 40005

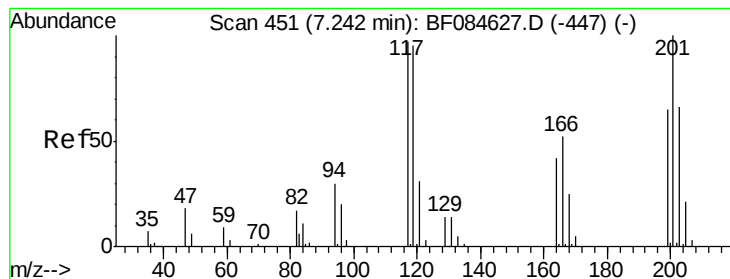
Ion Ratio Lower Upper

77 100

105 909.1 83.0 123.0#

106 70.3 74.6 114.6#





#18

Hexachloroethane

Concen: 5.28 ng

RT: 7.26 min Scan# 453

Delta R.T. 0.02 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

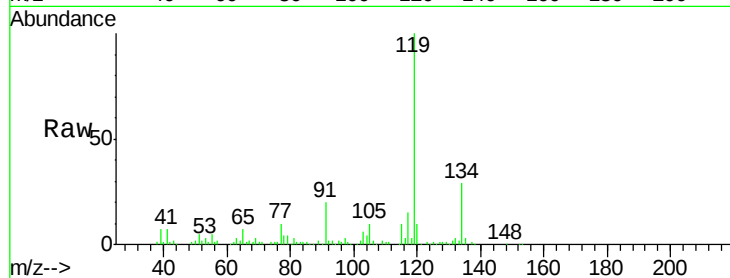
Tgt Ion:117 Resp: 26701

Ion Ratio Lower Upper

117 100

119 657.8 77.4 116.0#

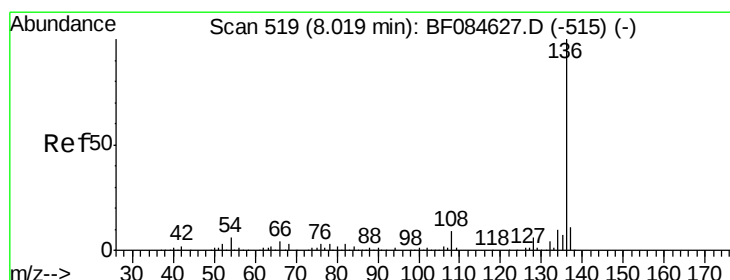
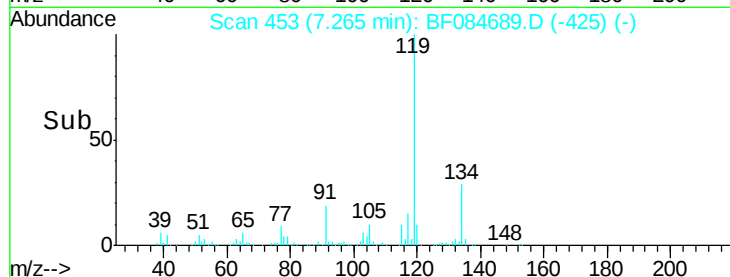
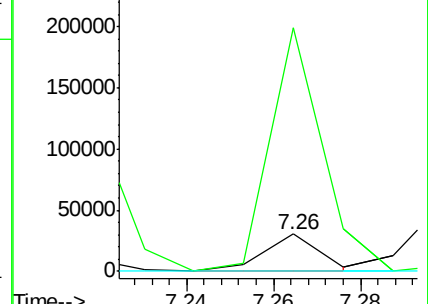
201 0.0 68.6 103.0#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.01 min Scan# 518

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Tgt Ion:136 Resp: 563399

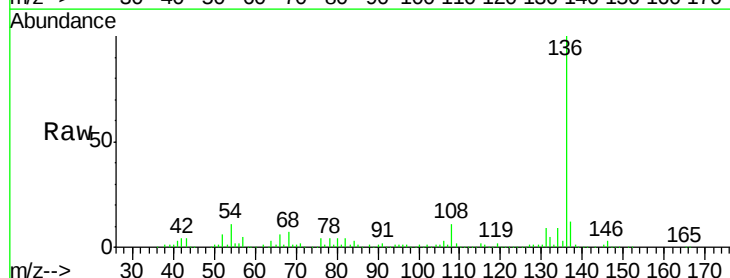
Ion Ratio Lower Upper

136 100

137 11.7 8.7 13.1

54 10.6 5.8 8.8#

68 6.5 4.2 6.2#

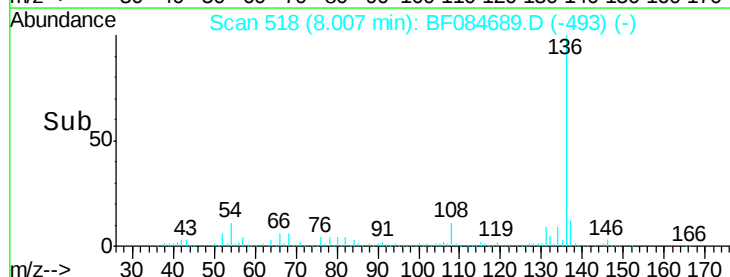
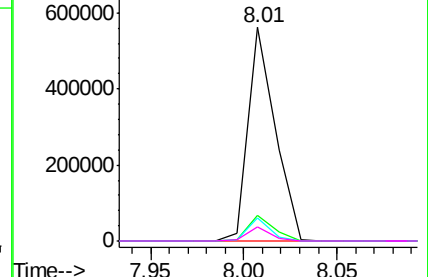


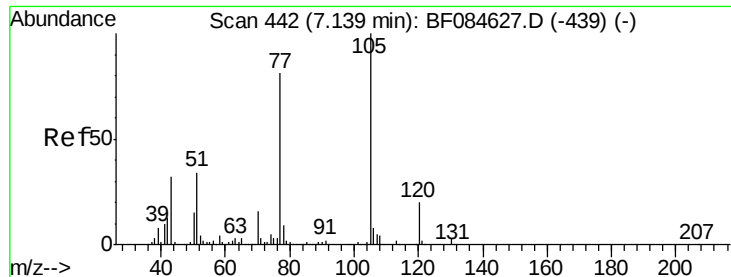
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#22

Acetophenone

Concen: 3.79 ng

RT: 7.13 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

Tgt Ion: 105 Resp: 55781

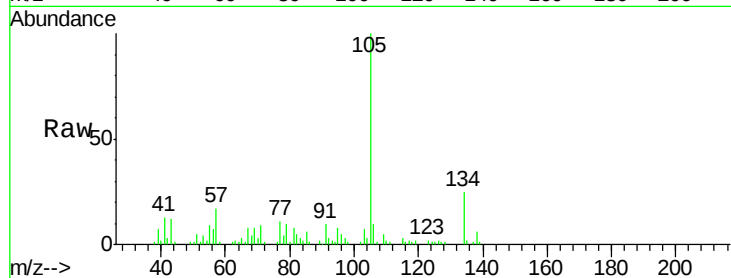
Ion Ratio Lower Upper

105 100

71 8.6 3.7 5.5#

51 4.5 25.1 37.7#

120 0.0 16.6 25.0#

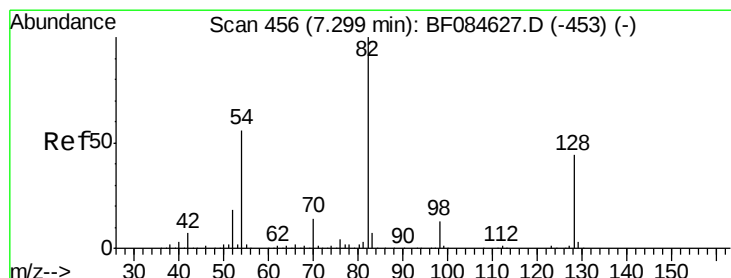
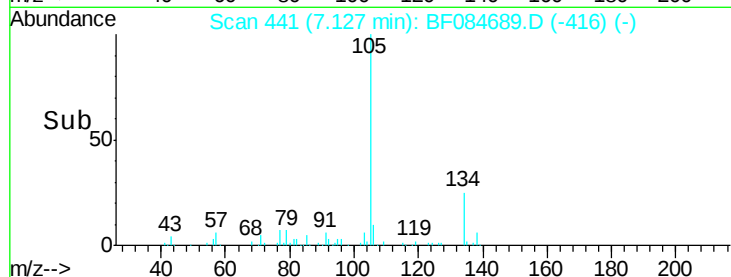
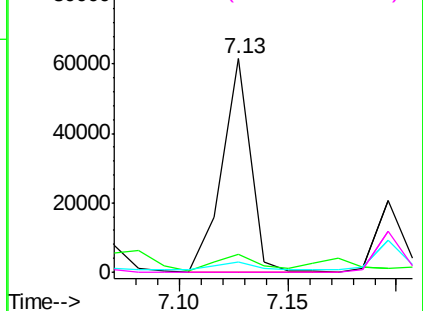


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 18.79 ng

RT: 7.29 min Scan# 455

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

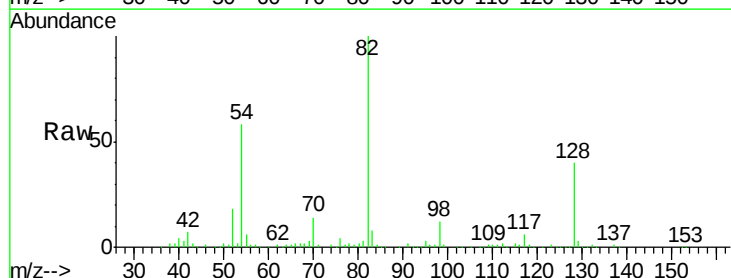
Tgt Ion: 82 Resp: 189403

Ion Ratio Lower Upper

82 100

128 40.4 34.6 51.8

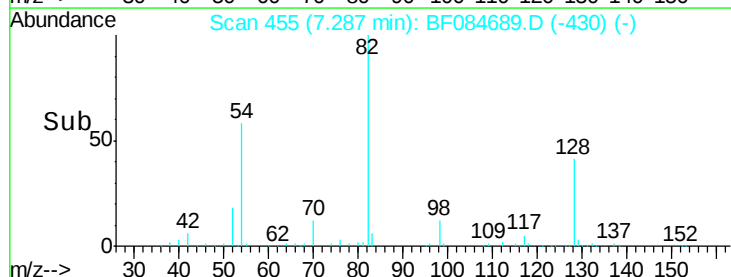
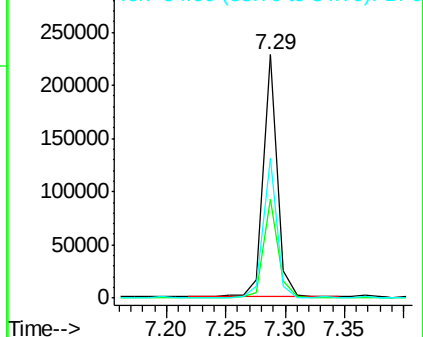
54 57.6 38.4 57.6#

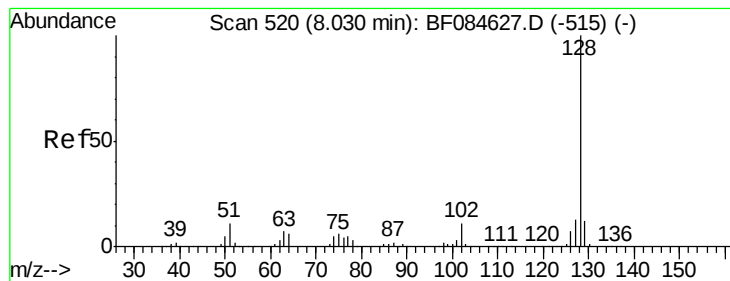


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 4.73 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

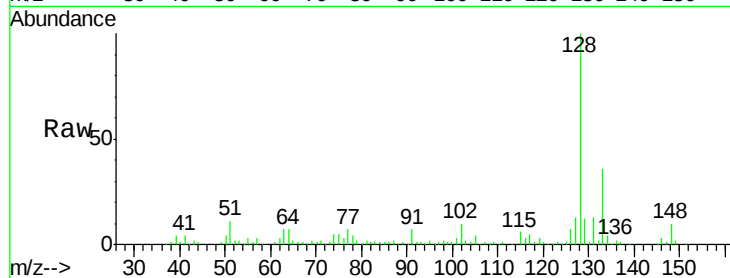
Tgt Ion:128 Resp: 134534

Ion Ratio Lower Upper

128 100

129 12.4 9.1 13.7

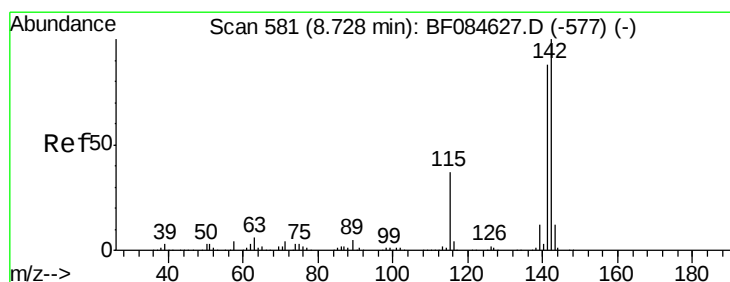
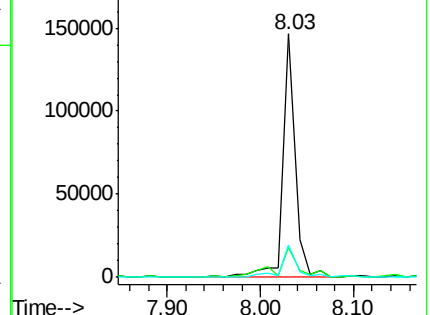
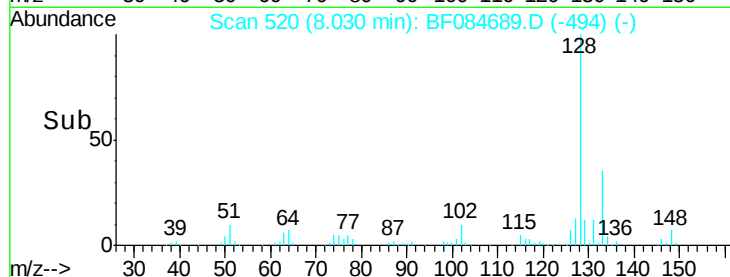
127 13.4 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 3.37 ng

RT: 8.73 min Scan# 581

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

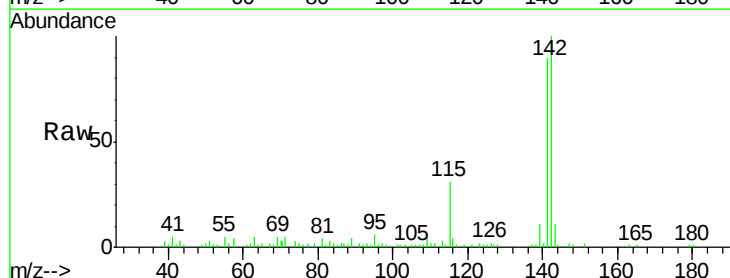
Tgt Ion:142 Resp: 58877

Ion Ratio Lower Upper

142 100

141 90.0 72.4 108.6

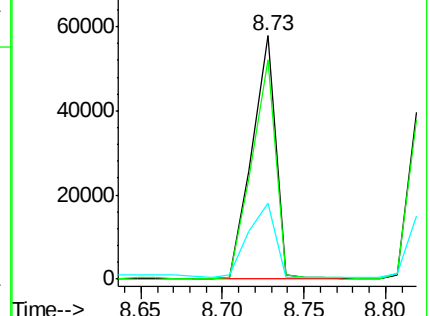
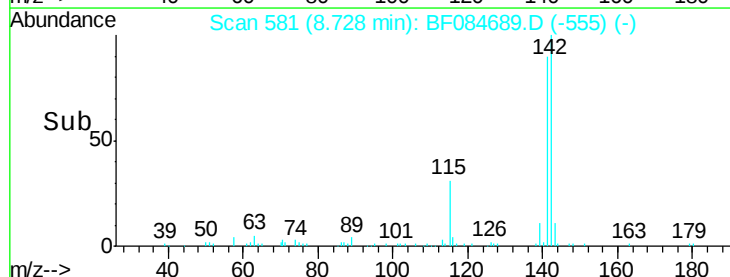
115 31.2 27.9 41.9

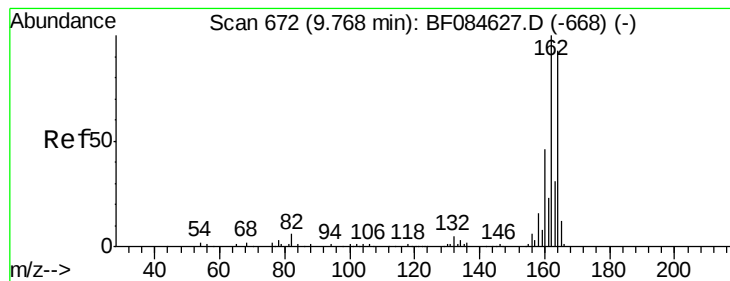


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

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ClientSampleId :

SUP-B011(10-12)

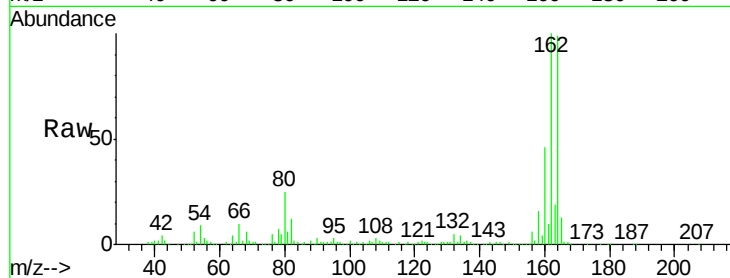
Tgt Ion:164 Resp: 224962

Ion Ratio Lower Upper

164 100

162 101.3 85.1 127.7

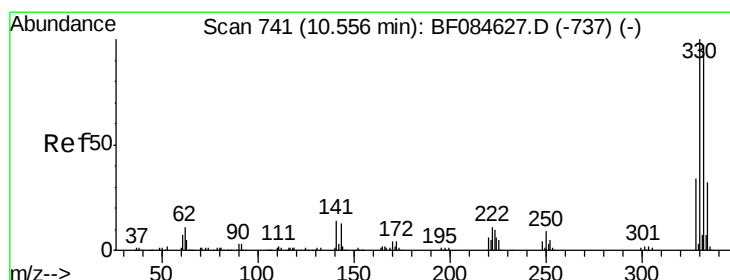
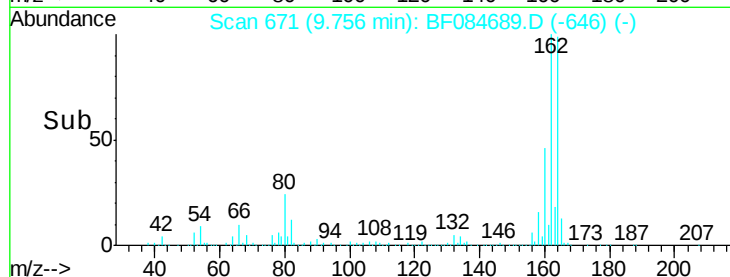
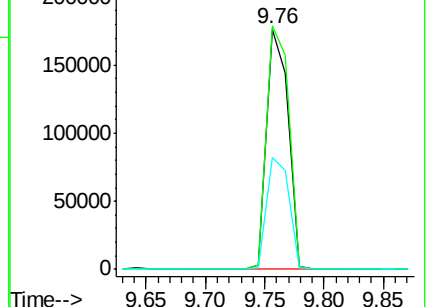
160 46.4 37.5 56.3



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



#41

2,4,6-Tribromophenol

Concen: 18.56 ng

RT: 10.54 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

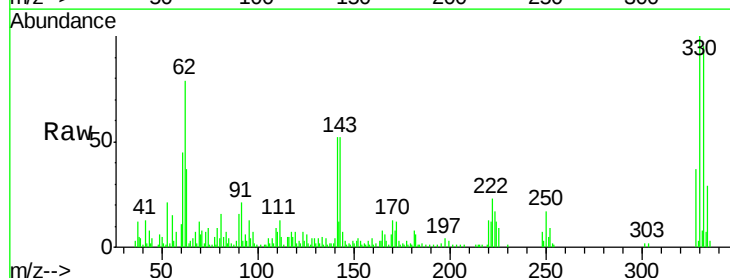
Tgt Ion:330 Resp: 43761

Ion Ratio Lower Upper

330 100

332 98.4 76.6 114.8

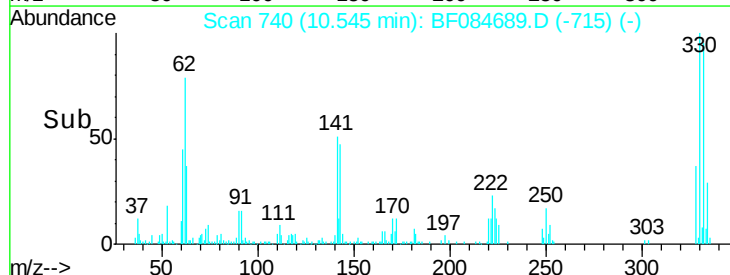
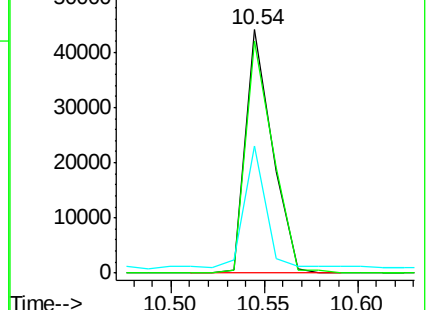
141 43.6 27.8 41.6#

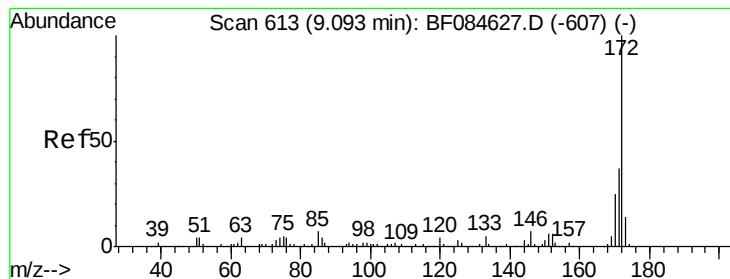


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 19.86 ng

RT: 9.09 min Scan# 613

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

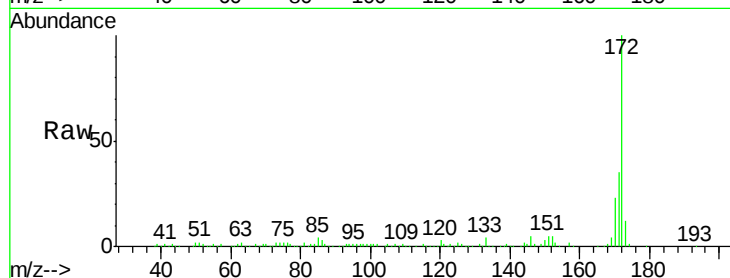
Tgt Ion:172 Resp: 300586

Ion Ratio Lower Upper

172 100

171 35.1 28.9 43.3

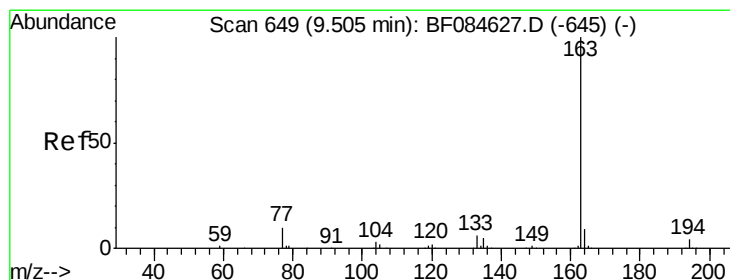
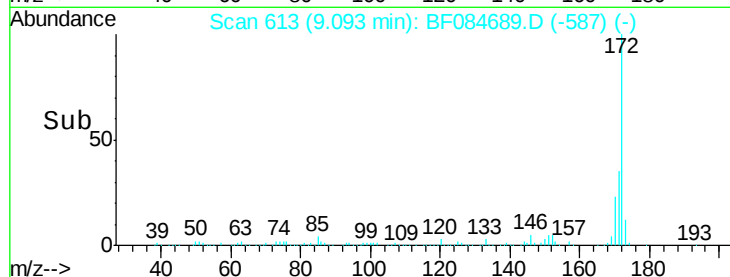
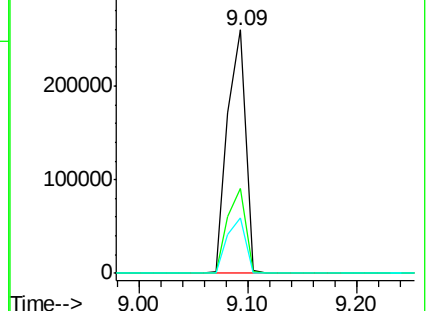
170 22.9 18.6 27.8



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 3.31 ng

RT: 9.49 min Scan# 648

Delta R.T. -0.01 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

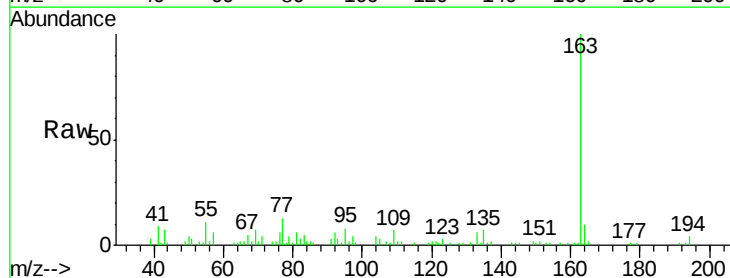
Tgt Ion:163 Resp: 55969

Ion Ratio Lower Upper

163 100

194 3.9 8.0 12.0#

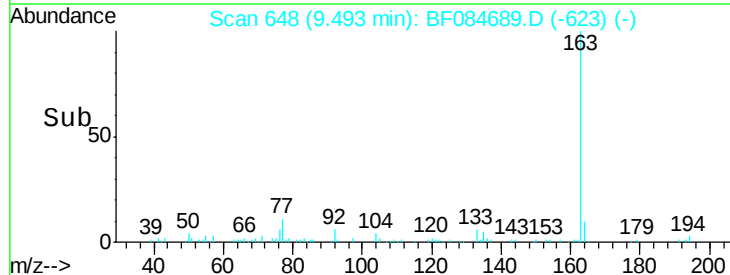
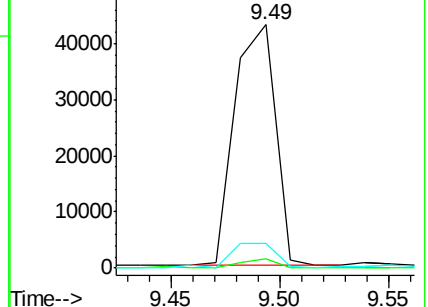
164 9.9 8.0 12.0

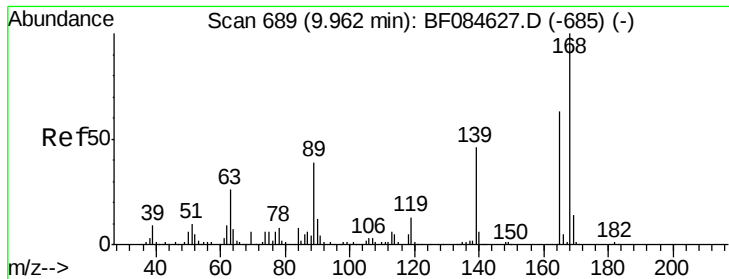


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

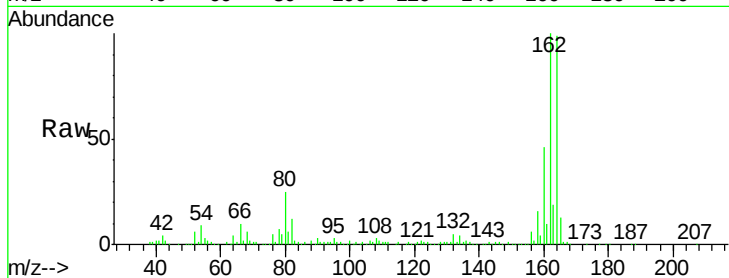




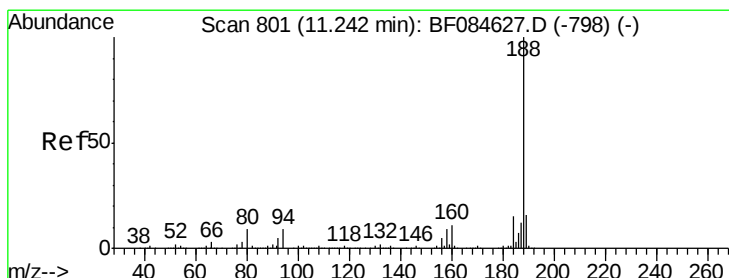
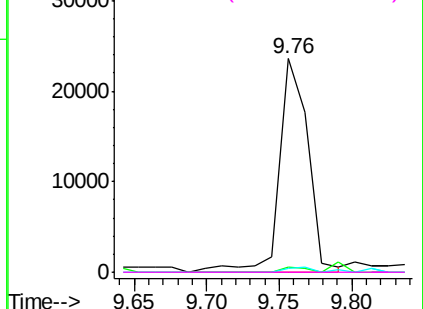
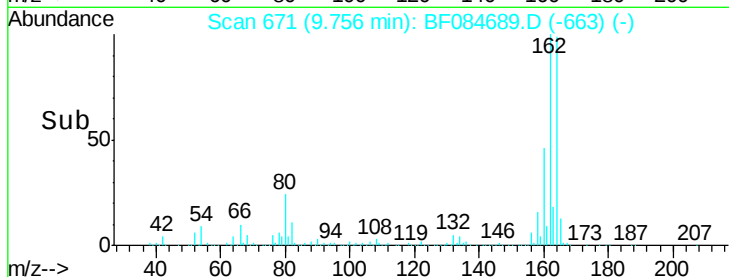
#56
 2,4-Dinitrotoluene
 Concen: 6.63 ng
 RT: 9.76 min Scan# 671
 Delta R.T. -0.21 min
 Lab File: BF084689.D
 Acq: 30 Jan 2016 16:41

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B011(10-12)

Tgt Ion:165 Resp: 32021
 Ion Ratio Lower Upper
 165 100
 63 2.3 36.7 55.1#
 89 1.6 61.9 92.9#
 182 0.0 2.0 3.0#

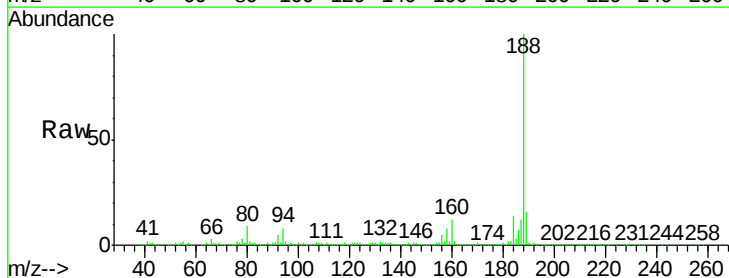


Abundance Ion 165.00 (164.70 to 165.70): E

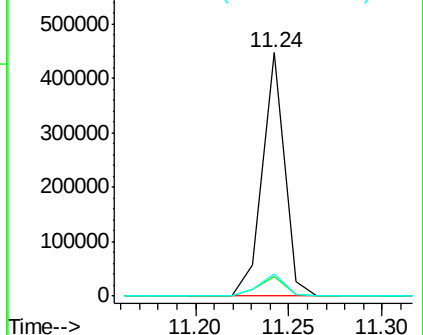
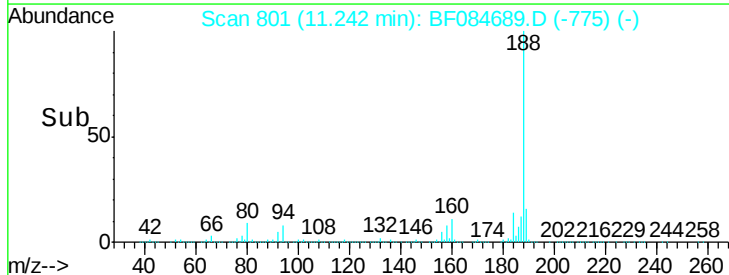


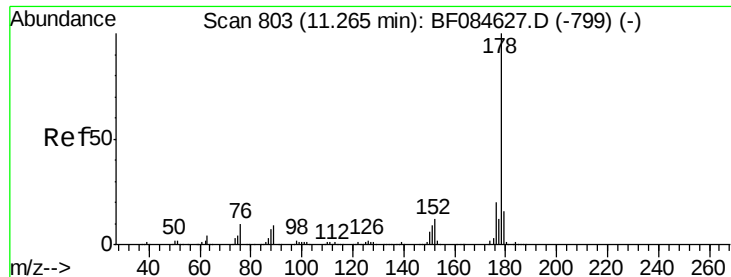
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.24 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: BF084689.D
 Acq: 30 Jan 2016 16:41

Tgt Ion:188 Resp: 364784
 Ion Ratio Lower Upper
 188 100
 94 8.3 9.0 13.4#
 80 9.0 9.6 14.4#



Abundance Ion 188.00 (187.70 to 188.70): E

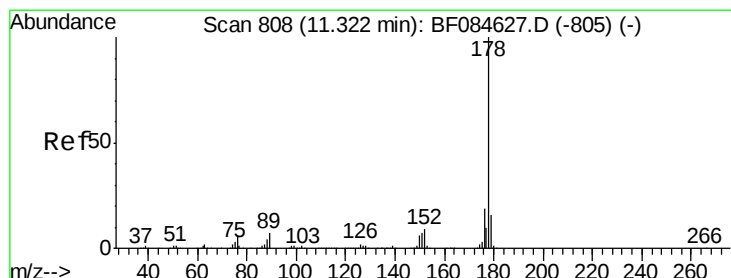
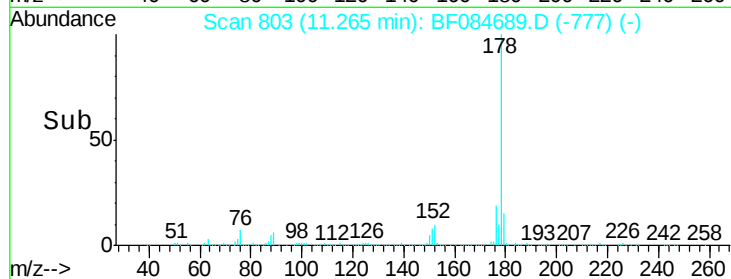
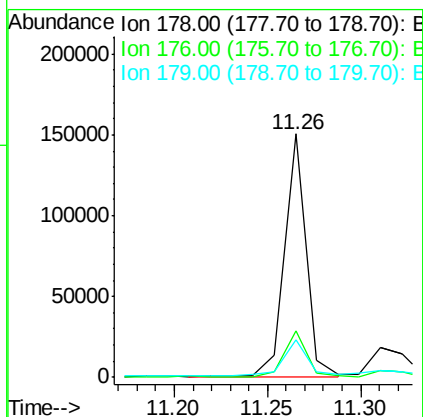
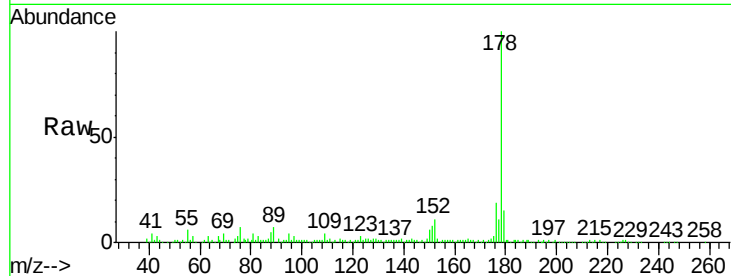




#70
Phenanthrene
Concen: 5.94 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

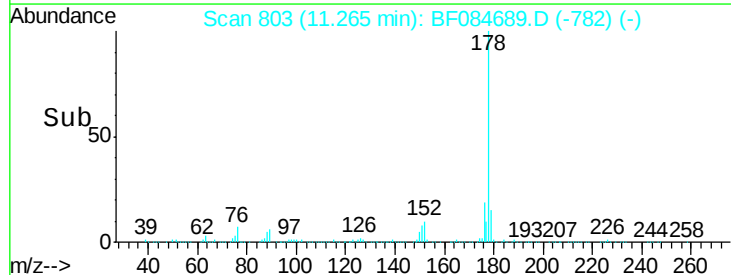
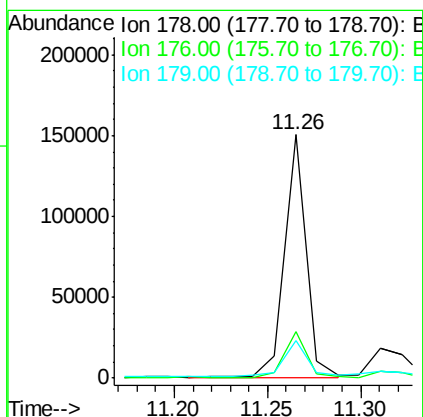
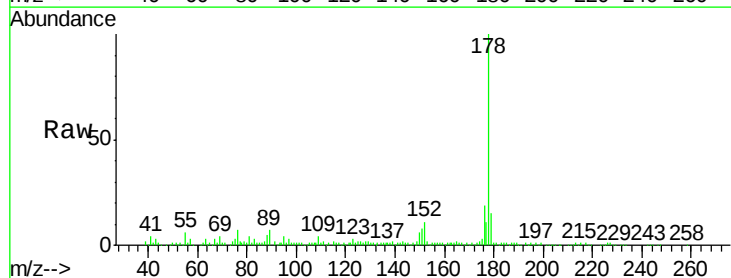
Instrument :
BNA_F
ClientSampleId :
SUP-B011(10-12)

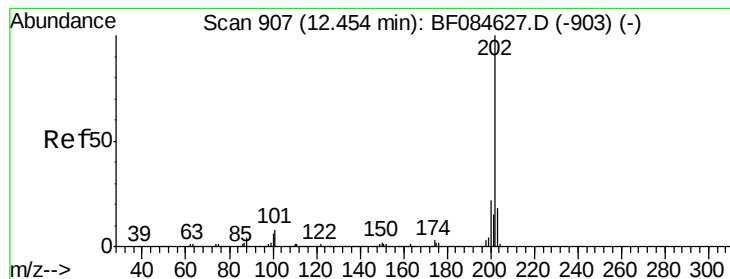
Tgt Ion:178 Resp: 119879
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 12.0 18.0



#71
Anthracene
Concen: 5.85 ng
RT: 11.26 min Scan# 803
Delta R.T. -0.06 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

Tgt Ion:178 Resp: 119879
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.4 12.5 18.7





#74

Fluoranthene

Concen: 6.08 ng

RT: 12.45 min Scan# 907

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

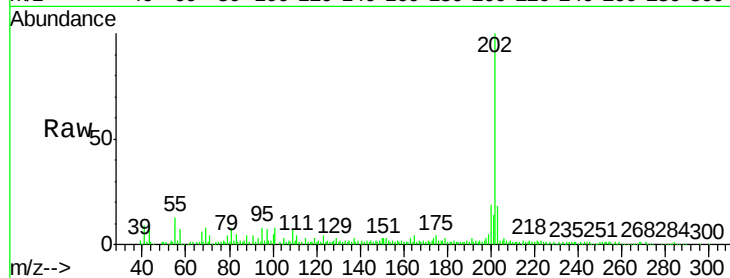
Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

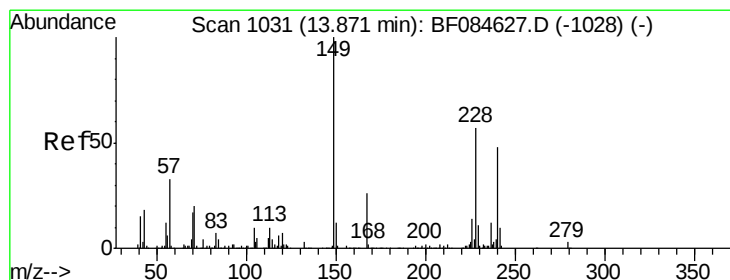
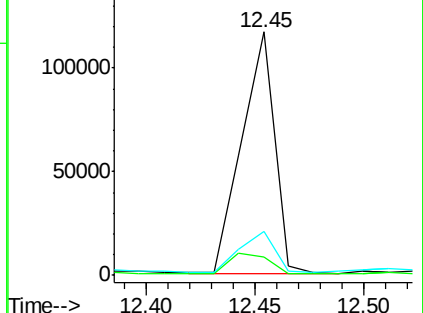
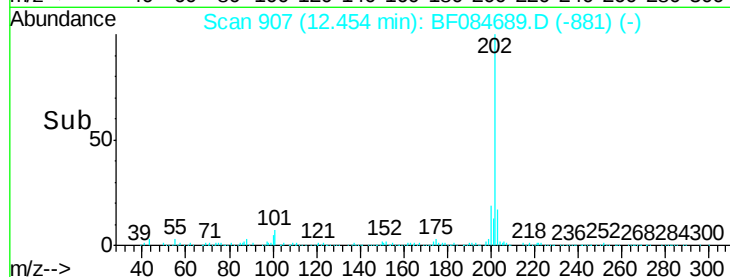
Tgt Ion:	202	Resp:	121322
Ion	Ratio	Lower	Upper
202	100		
101	7.6	0.0	32.8
203	18.2	0.0	37.9



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



#75

Chrysene-d12

Concen: 20.00 ng

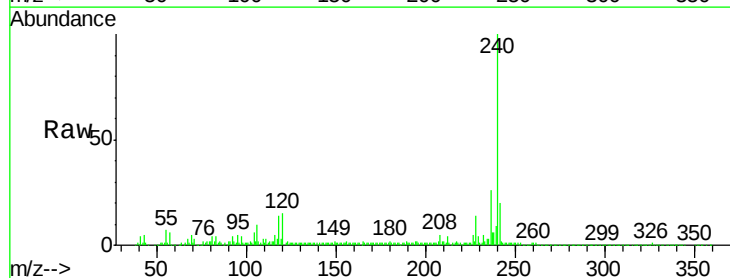
RT: 13.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

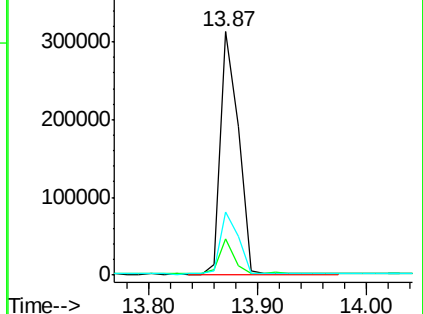
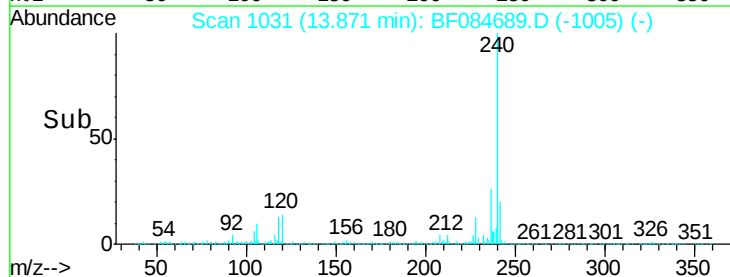
Tgt Ion:	240	Resp:	359297
Ion	Ratio	Lower	Upper
240	100		
120	14.7	9.5	14.3#
236	26.2	20.6	31.0

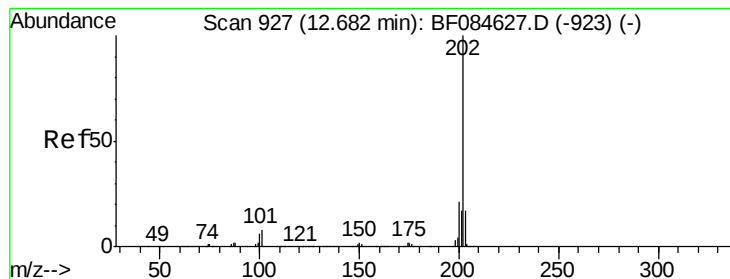


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 4.91 ng

RT: 12.68 min Scan# 927

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

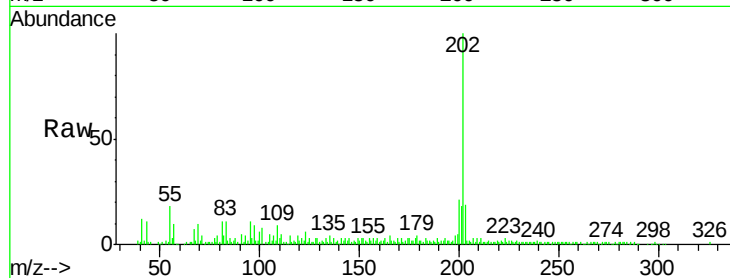
Tgt Ion:202 Resp: 133075

Ion Ratio Lower Upper

202 100

200 20.7 17.2 25.8

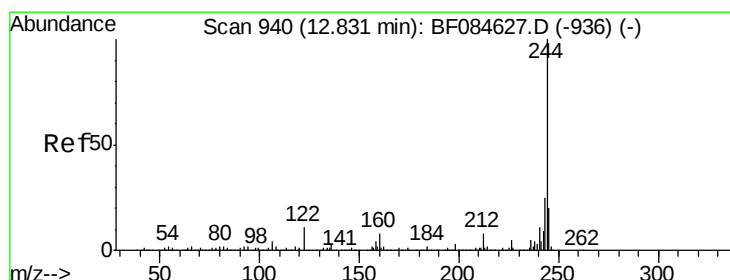
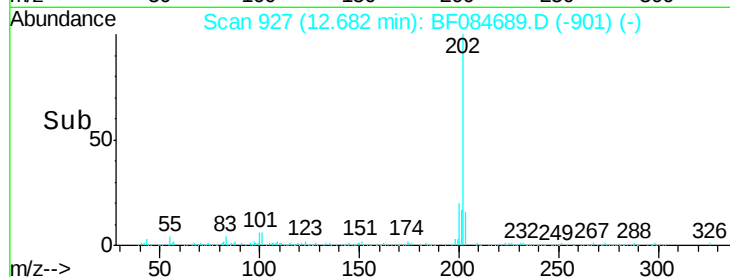
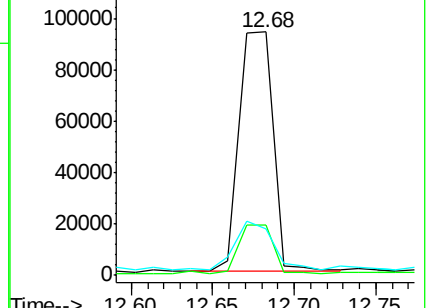
203 18.9 14.3 21.5



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



#78

Terphenyl-d14

Concen: 13.59 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

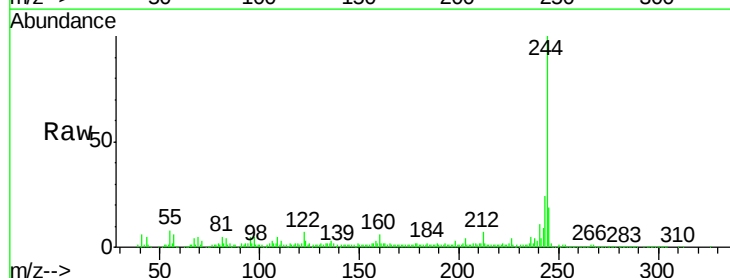
Tgt Ion:244 Resp: 216135

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

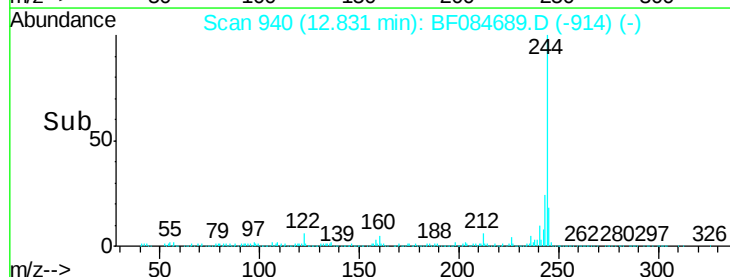
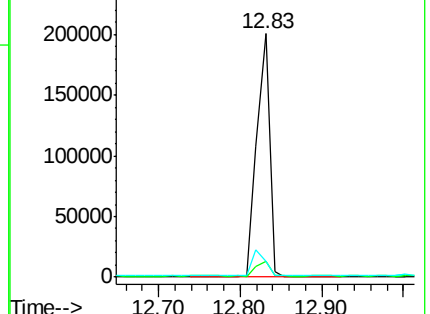
122 6.7 7.4 11.0#

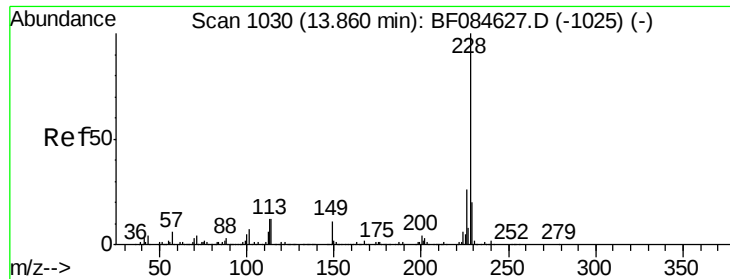


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.63 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

Instrument :

BNA_F

ClientSampleId :

SUP-B011(10-12)

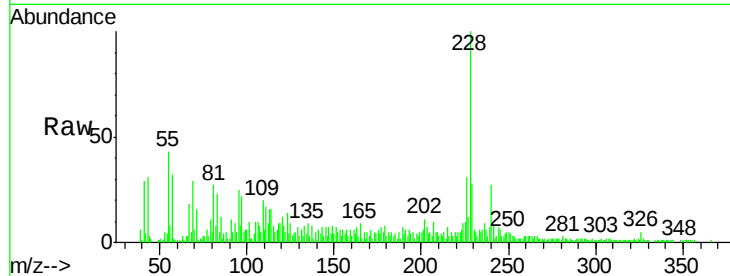
Tgt Ion:228 Resp: 81216

Ion Ratio Lower Upper

228 100

226 31.3 21.8 32.6

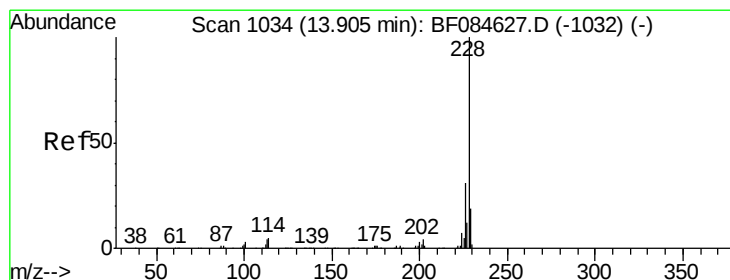
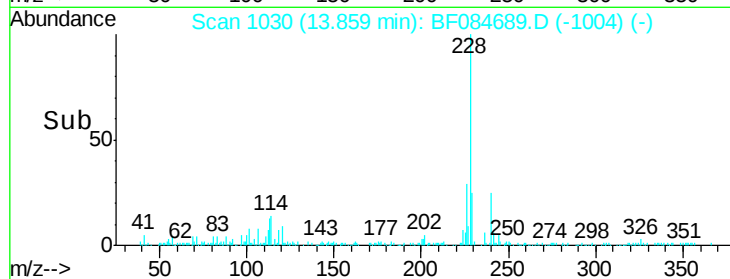
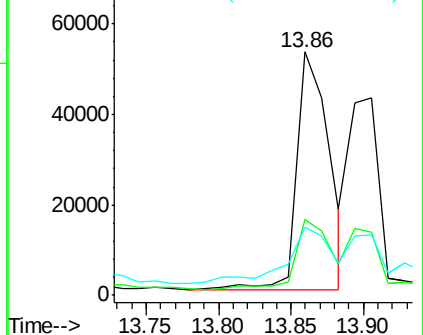
229 28.3 15.8 23.8#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.68 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.05 min

Lab File: BF084689.D

Acq: 30 Jan 2016 16:41

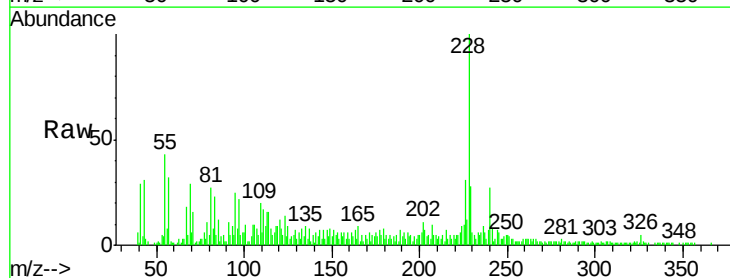
Tgt Ion:228 Resp: 81216

Ion Ratio Lower Upper

228 100

226 31.3 24.3 36.5

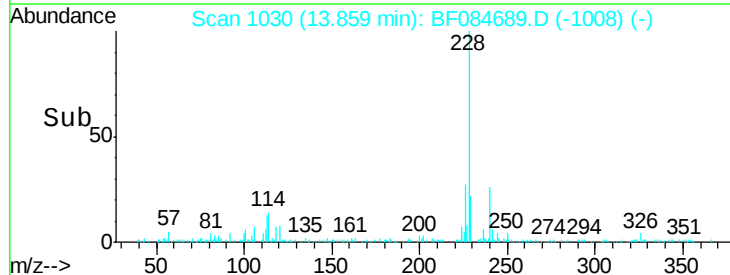
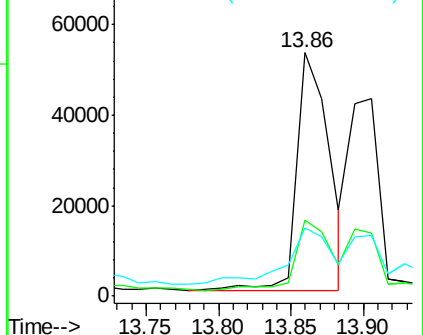
229 28.3 16.1 24.1#

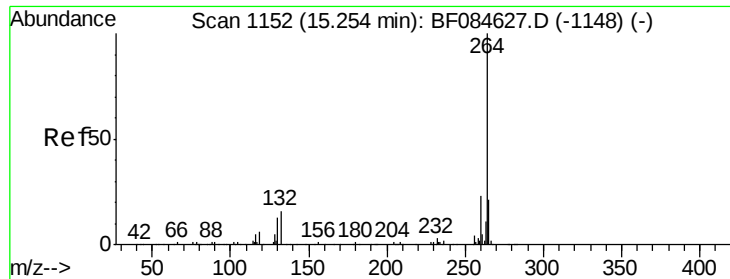


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

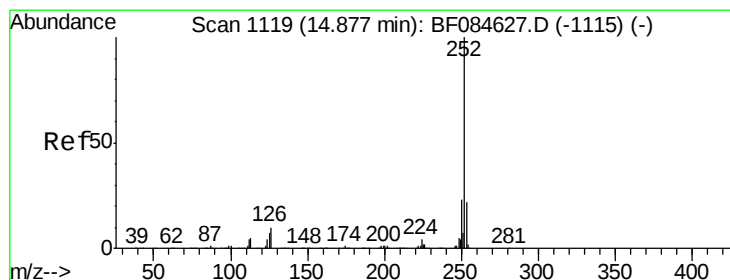
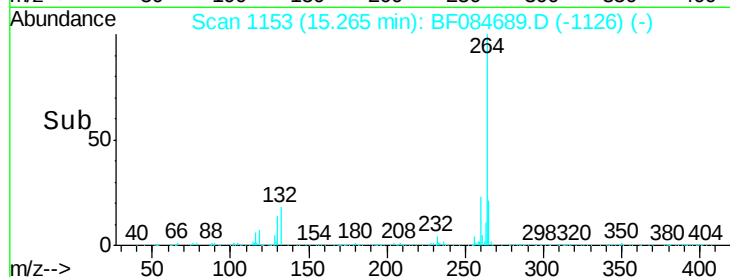
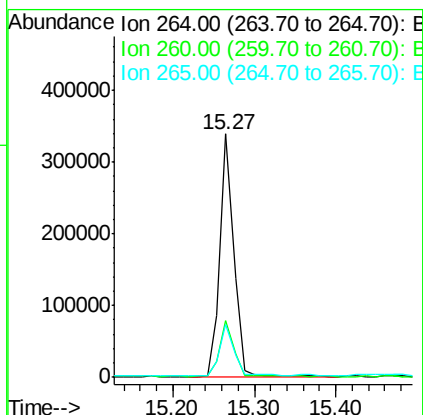
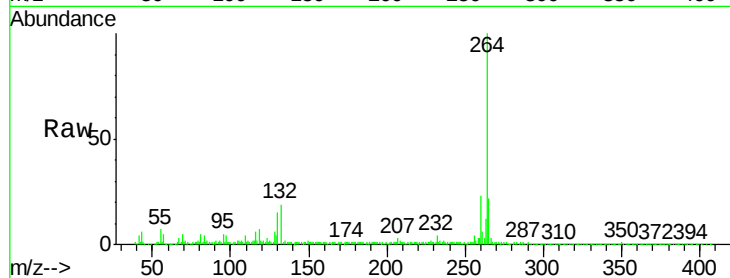




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.27 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

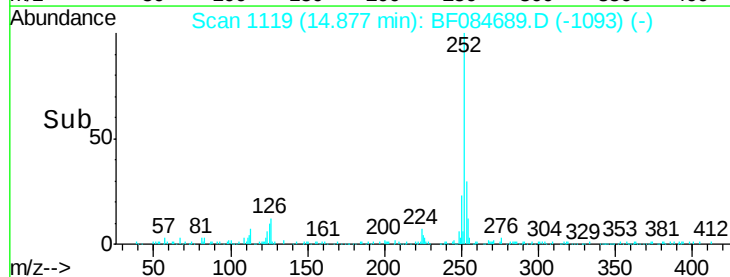
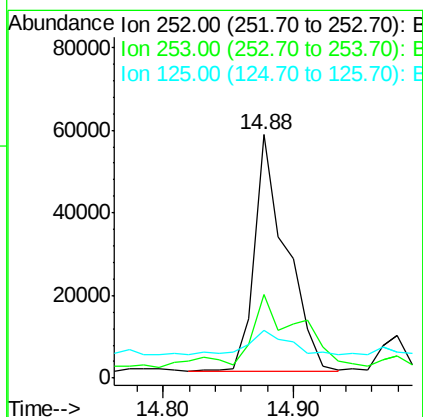
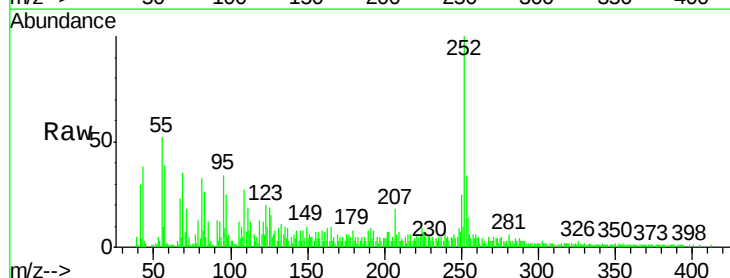
Instrument :
BNA_F
ClientSampleId :
SUP-B011(10-12)

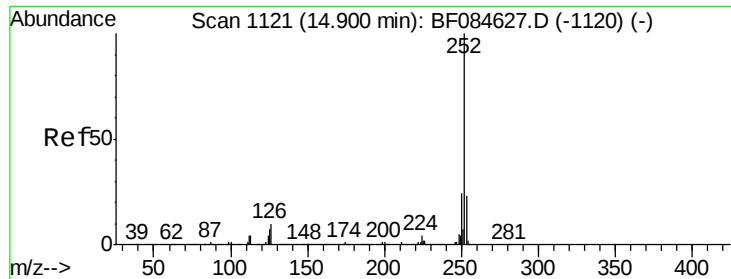
Tgt Ion:264 Resp: 399087
Ion Ratio Lower Upper
264 100
260 23.3 19.4 29.2
265 22.0 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 3.77 ng
RT: 14.88 min Scan# 1119
Delta R.T. -0.00 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

Tgt Ion:252 Resp: 97495
Ion Ratio Lower Upper
252 100
253 34.2 17.3 25.9#
125 19.4 6.5 9.7#

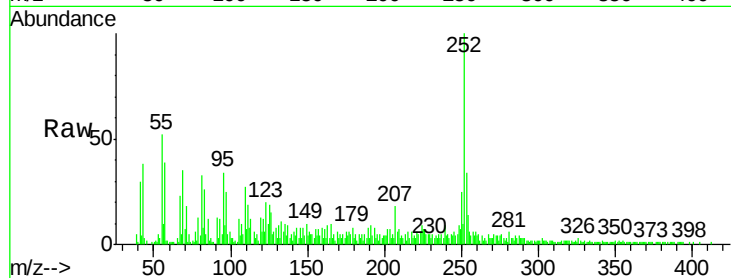




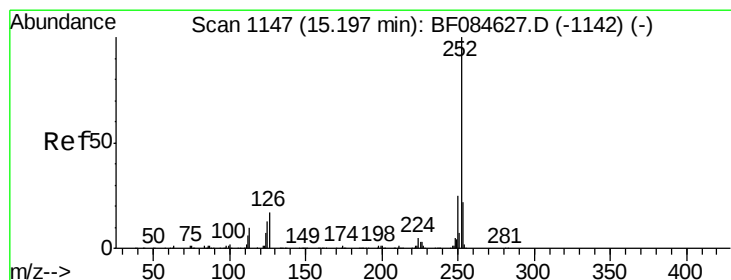
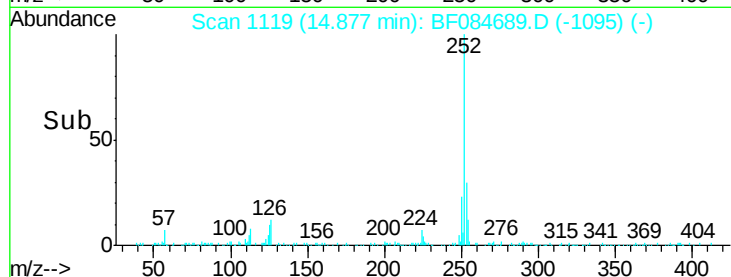
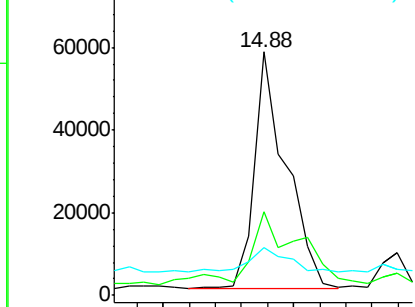
#88
Benzo(k)fluoranthene
Concen: 4.57 ng
RT: 14.88 min Scan# 1119
Delta R.T. -0.02 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

Instrument :
BNA_F
ClientSampleId :
SUP-B011(10-12)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.2	18.1	27.1#
125	19.4	9.0	13.6#

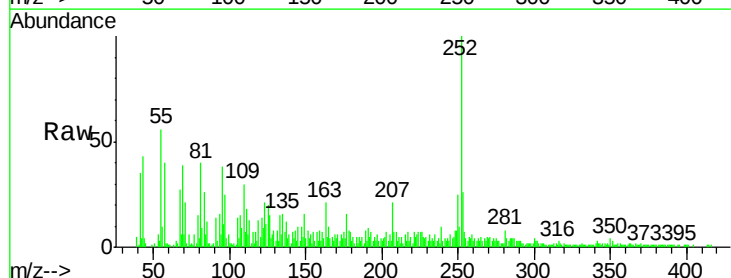


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89
Benzo(a)pyrene
Concen: 2.66 ng
RT: 15.21 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BF084689.D
Acq: 30 Jan 2016 16:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.3	25.9
125	20.2	7.0	10.4#



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

