

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020516\
 Data File : BF084897.D
 Acq On : 6 Feb 2016 8:32
 Operator : SJ/IZ
 Sample : H1312-05RX
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B005(5-7)RX

Quant Time: Feb 07 23:57:37 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	175733	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	704882	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	294973	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	501034	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	345204	20.00	ng	-0.03
86) Perylene-d12	15.17	264	324086	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.25	112	27723	2.46	ng	-0.02
7) Phenol-d6	6.30	99	495629	35.44	ng	-0.03
23) Nitrobenzene-d5	7.23	82	834127	66.66	ng	-0.03
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.02	172	1366264	74.98	ng	-0.03
78) Terphenyl-d14	12.76	244	1124962	73.85	ng	-0.03

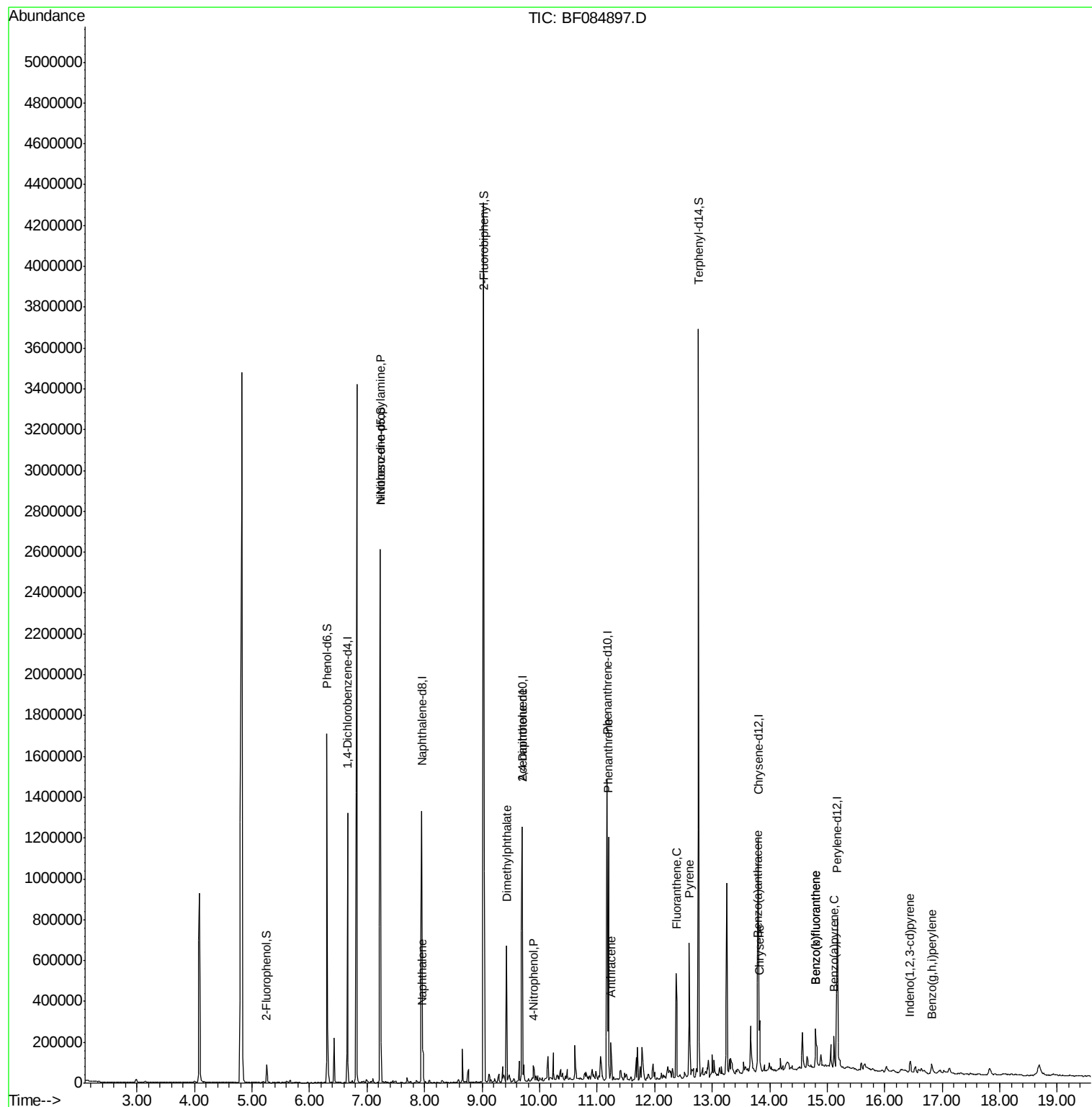
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	113824	12.98	ng	# 70
31) Naphthalene	7.96	128	92558	2.62	ng	98
49) Dimethylphthalate	9.42	163	239194	10.65	ng	# 90
55) 4-Nitrophenol	9.89	139	11905	2.94	ng	# 12
56) 2,4-Dinitrotoluene	9.70	165	39426	6.30	ng	# 22
70) Phenanthrene	11.20	178	400734	14.42	ng	99
71) Anthracene	11.24	178	84803	3.03	ng	99
74) Fluoranthene	12.37	202	273804	9.73	ng	97
77) Pyrene	12.60	202	250552	9.48	ng	98
80) Benzo(a)anthracene	13.79	228	116106	5.42	ng	98
82) Chrysene	13.83	228	81844	3.94	ng	96
85) Indeno(1,2,3-cd)pyrene	16.44	276	37663	2.30	ng	96
87) Benzo(b)fluoranthene	14.80	252	122638	5.63	ng	# 97
88) Benzo(k)fluoranthene	14.80	252	122638	6.81	ng	98
89) Benzo(a)pyrene	15.12	252	70858	3.82	ng	96
91) Benzo(g,h,i)perylene	16.82	276	33175	2.11	ng	96

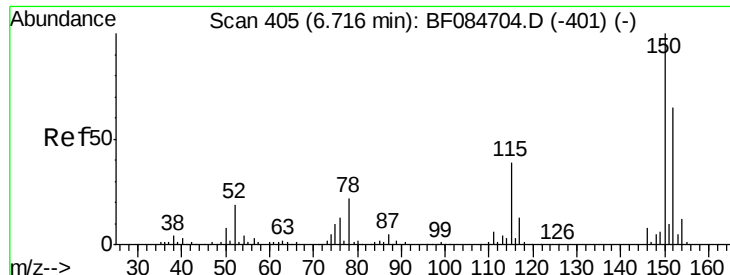
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

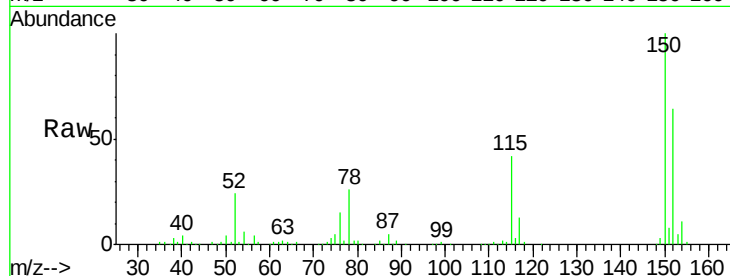
Tgt Ion:152 Resp: 175733

Ion Ratio Lower Upper

152 100

150 156.4 123.0 184.4

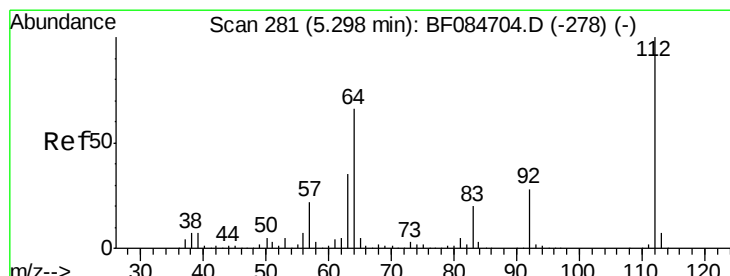
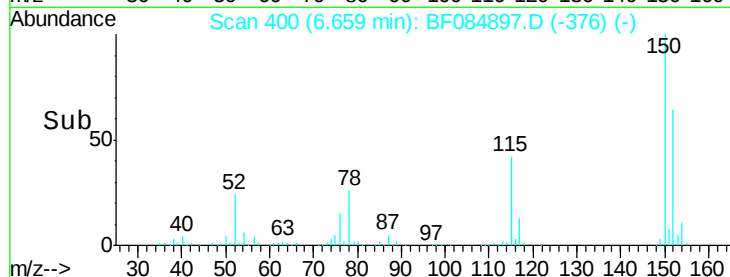
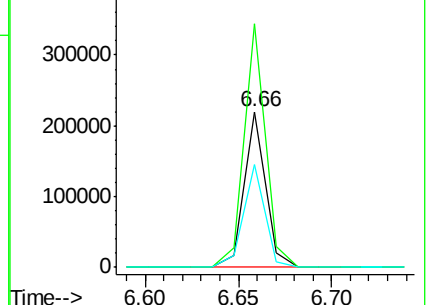
115 65.9 51.4 77.2



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: 2.46 ng

RT: 5.25 min Scan# 277

Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

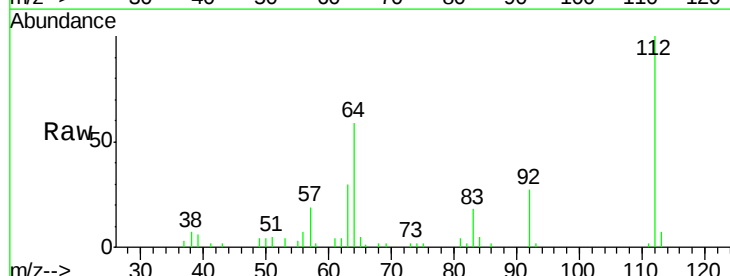
Tgt Ion:112 Resp: 27723

Ion Ratio Lower Upper

112 100

64 58.6 36.6 55.0#

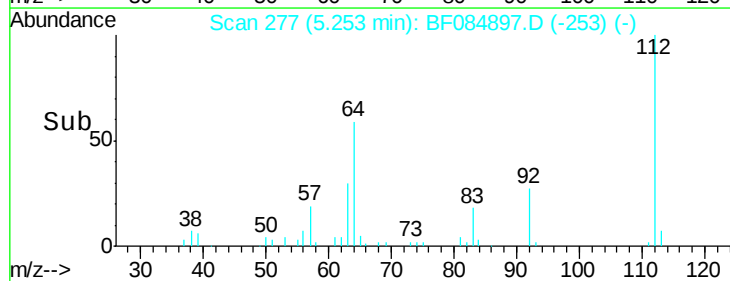
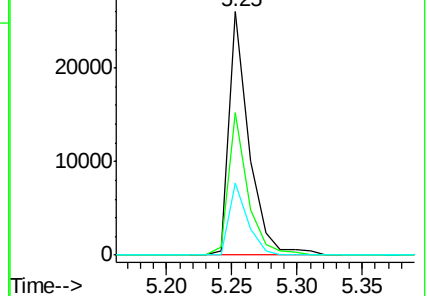
63 29.9 19.4 29.0#



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: 35.44 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

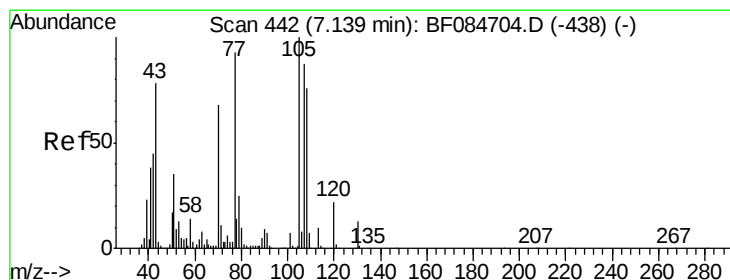
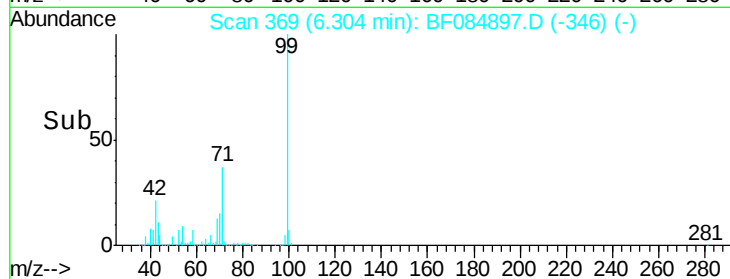
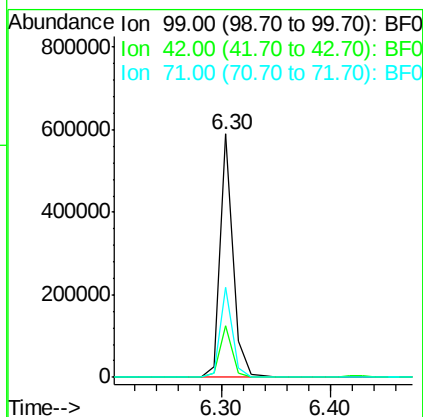
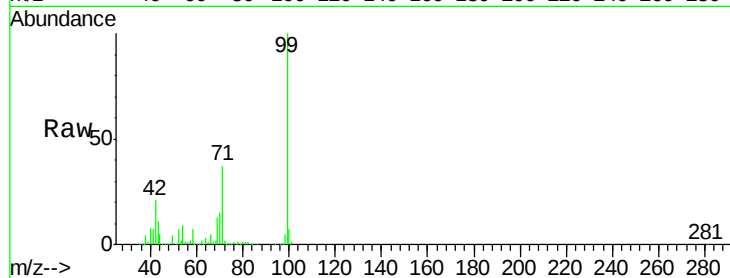
Tgt Ion: 99 Resp: 495629

Ion Ratio Lower Upper

99 100

42 21.1 12.8 19.2#

71 36.9 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 12.98 ng

RT: 7.23 min Scan# 450

Delta R.T. 0.11 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Tgt Ion: 70 Resp: 113824

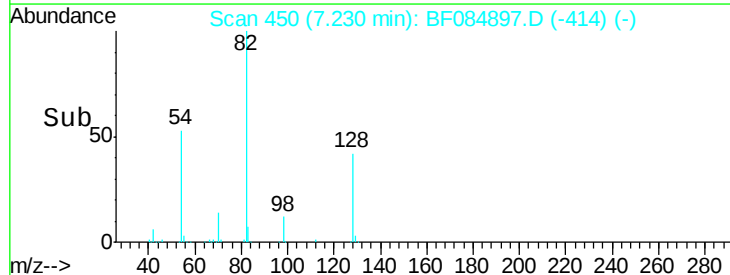
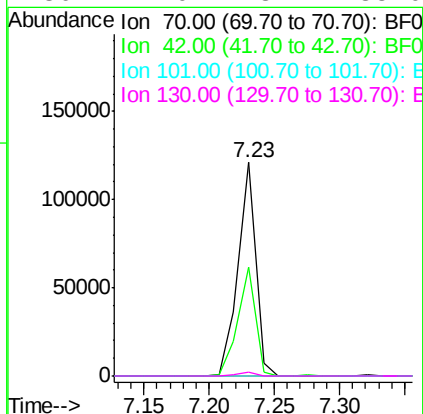
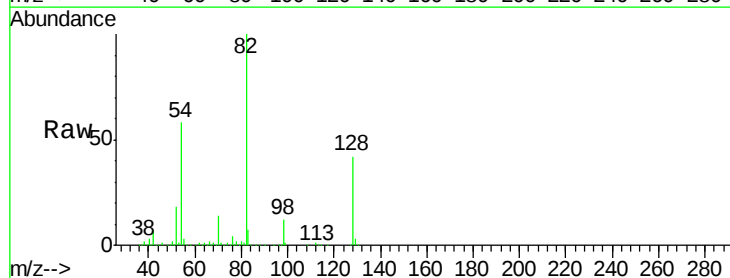
Ion Ratio Lower Upper

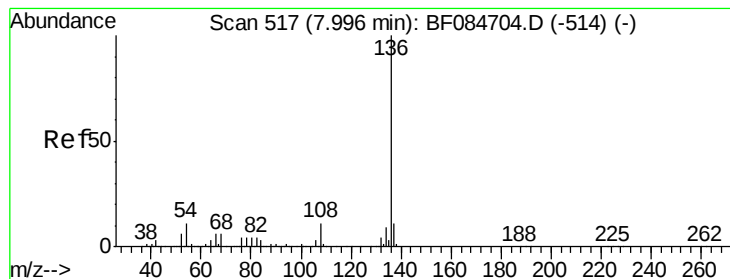
70 100

42 50.8 33.3 49.9#

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

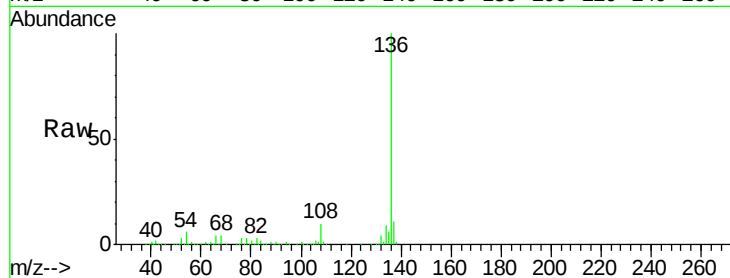
Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

Tgt Ion:	136	Resp:	704882
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.7	13.1
54	6.3	5.8	8.8
68	3.7	4.2	6.2#

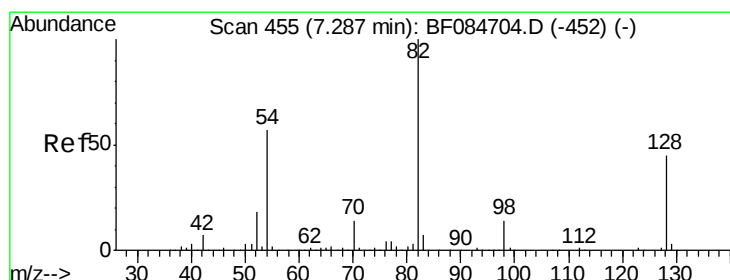
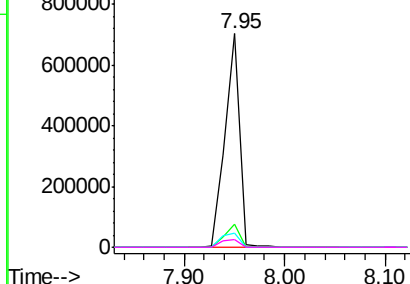
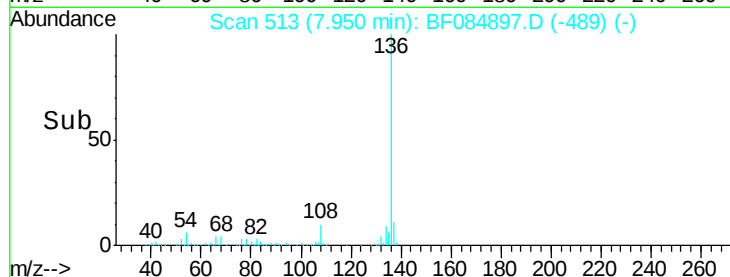


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 66.66 ng

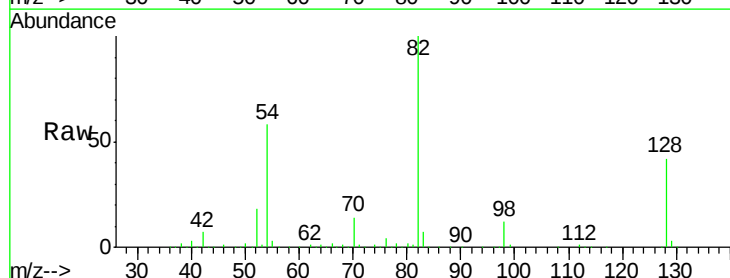
RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

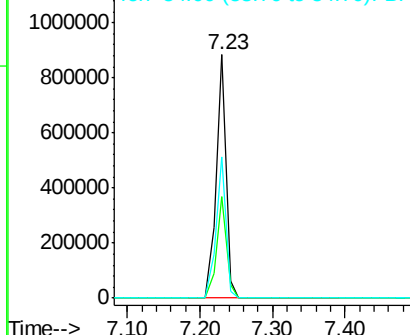
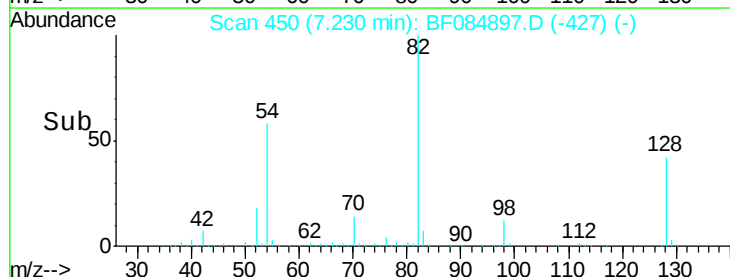
Tgt Ion:	82	Resp:	834127
Ion Ratio	Lower	Upper	
82	100		
128	41.9	34.6	51.8
54	57.8	38.4	57.6#

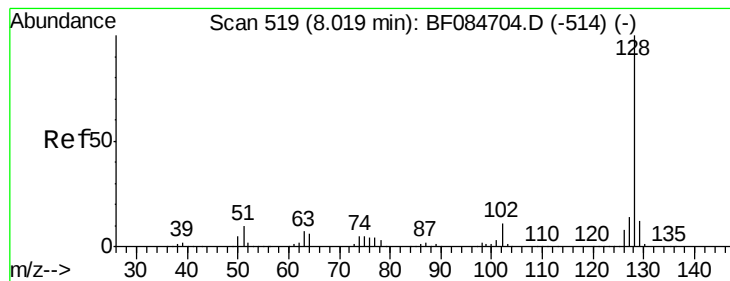


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.62 ng

RT: 7.96 min Scan# 514

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

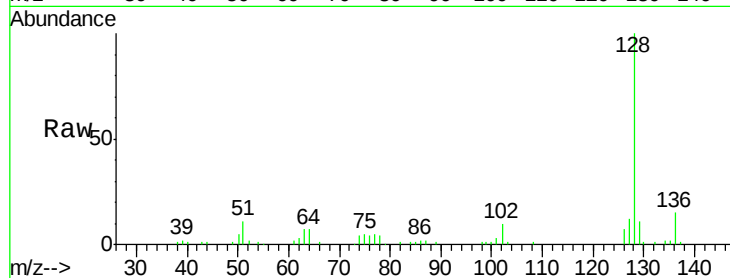
Tgt Ion:128 Resp: 92558

Ion Ratio Lower Upper

128 100

129 11.4 9.1 13.7

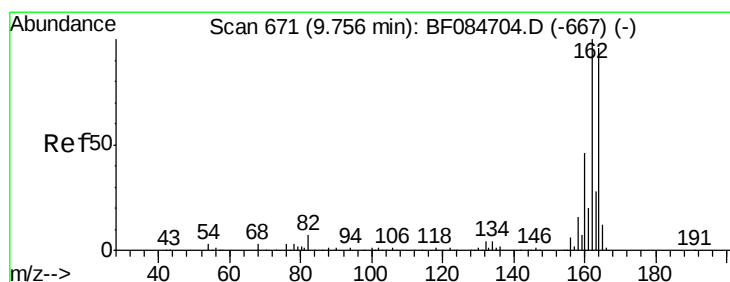
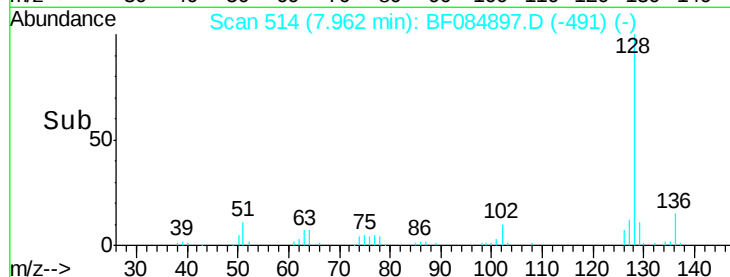
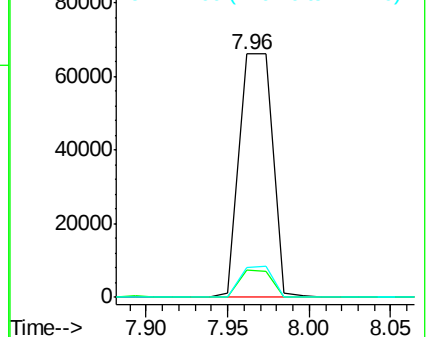
127 12.3 11.1 16.7



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

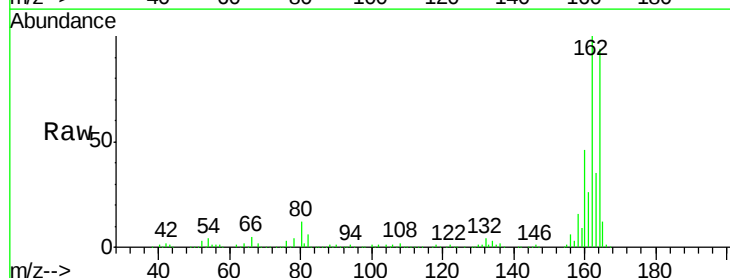
Tgt Ion:164 Resp: 294973

Ion Ratio Lower Upper

164 100

162 106.8 85.1 127.7

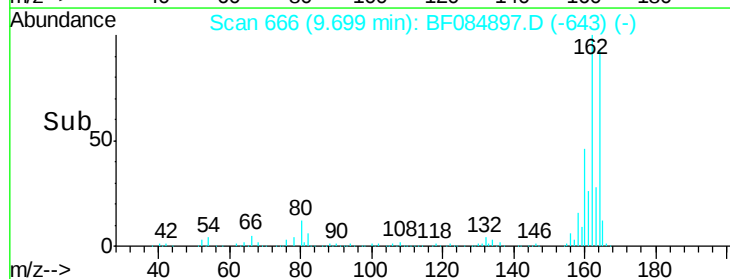
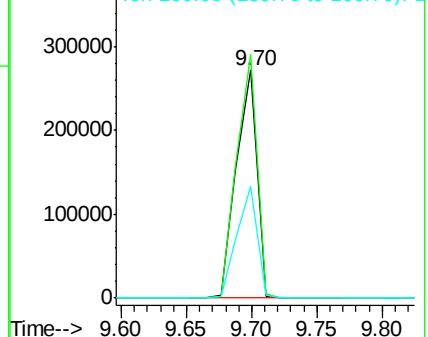
160 48.9 37.5 56.3

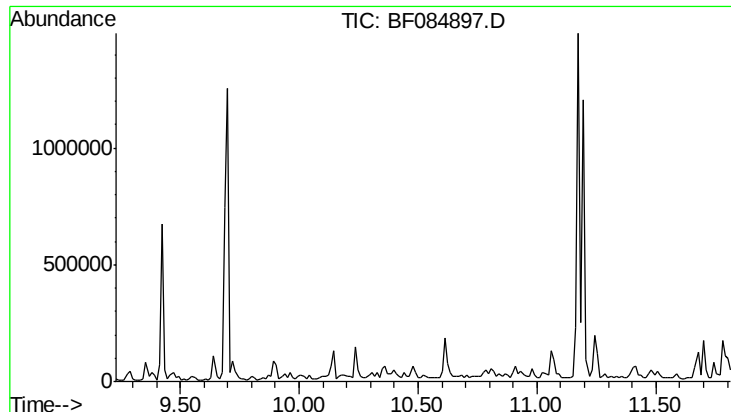


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 0.00 ng

Expected RT: 10.52 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

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ClientSampleId :

SUP-B005(5-7)RX

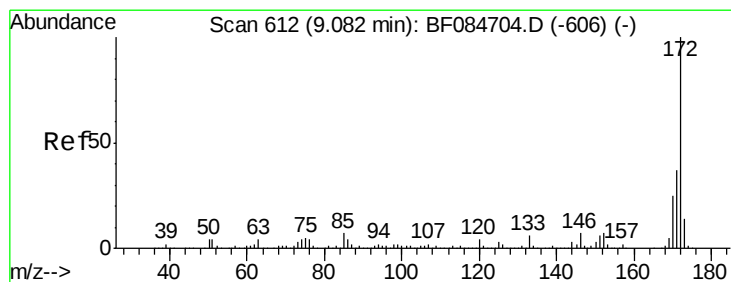
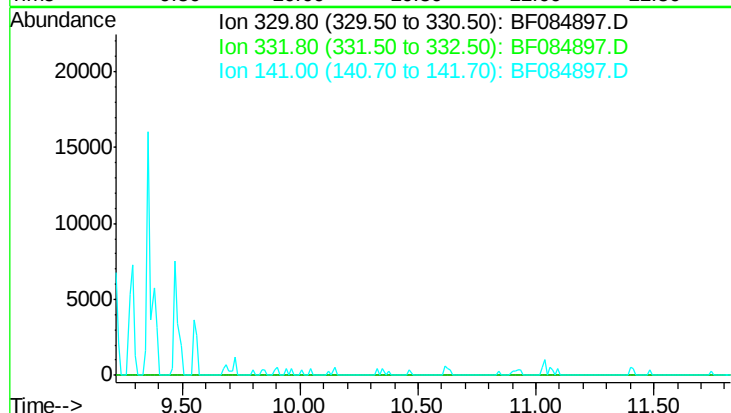
Tgt Ion: 330

Sig Exp Ratio

330 100

332 95.7

141 34.7



#44

2-Fluorobiphenyl

Concen: 74.98 ng

RT: 9.02 min Scan# 607

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

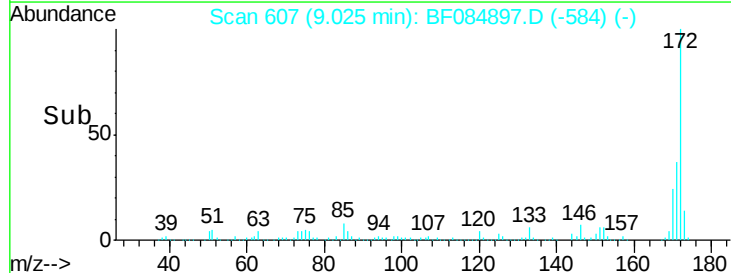
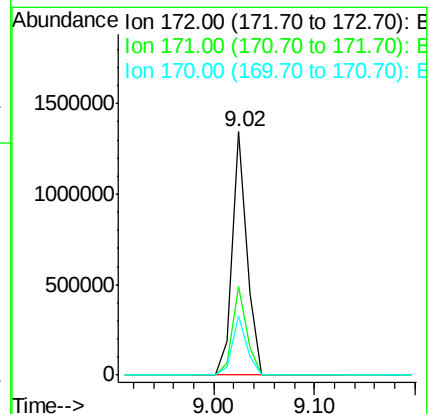
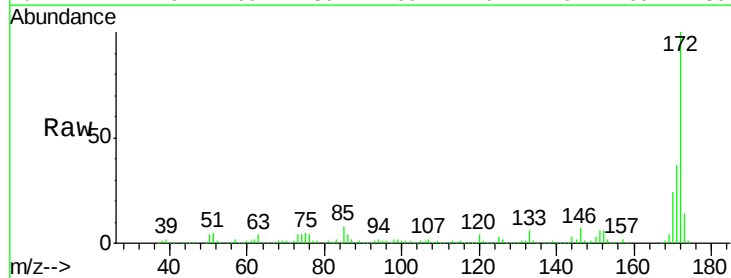
Tgt Ion:172 Resp: 1366264

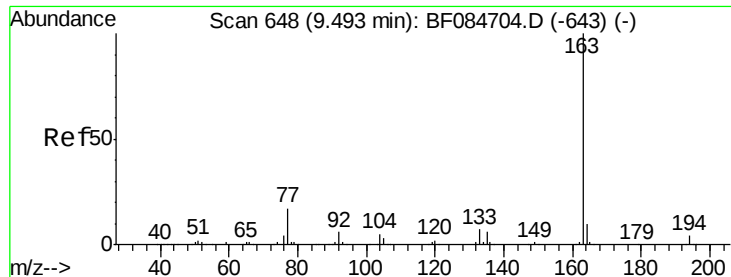
Ion Ratio Lower Upper

172 100

171 36.6 28.9 43.3

170 24.5 18.6 27.8

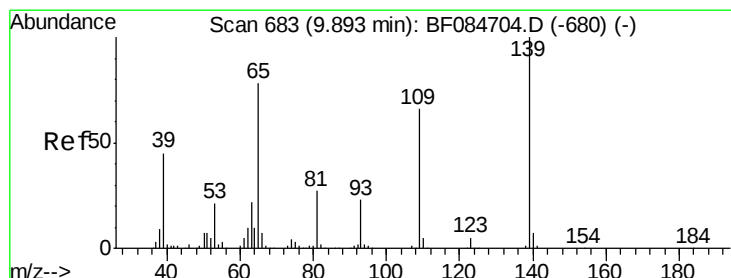
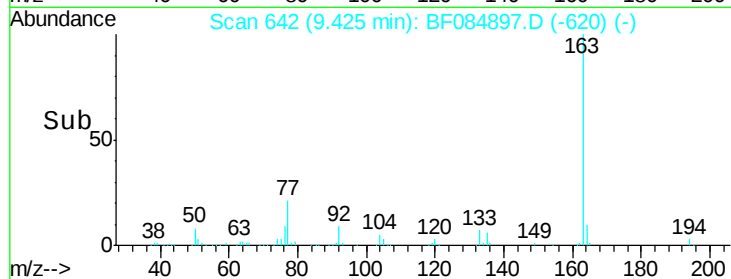
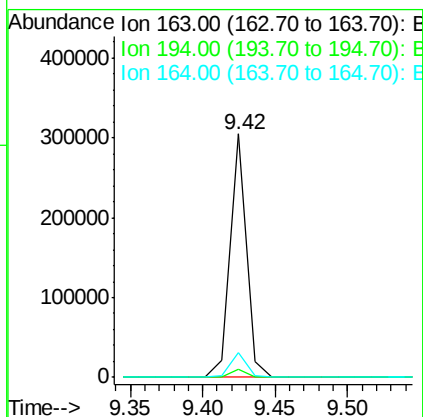
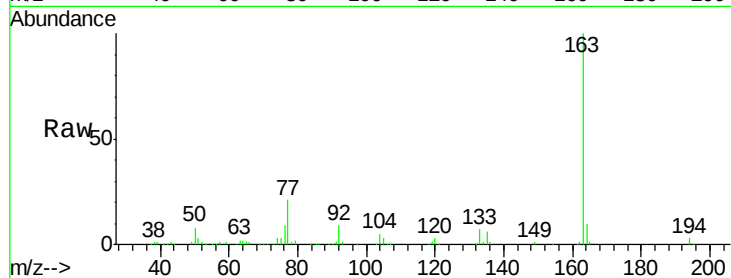




#49
Dimethylphthalate
Concen: 10.65 ng
RT: 9.42 min Scan# 642
Delta R.T. -0.05 min
Lab File: BF084897.D
Acq: 6 Feb 2016 8:32

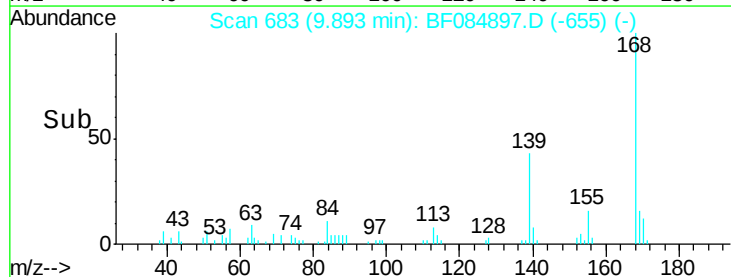
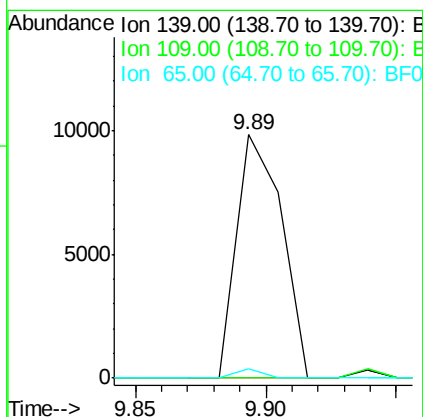
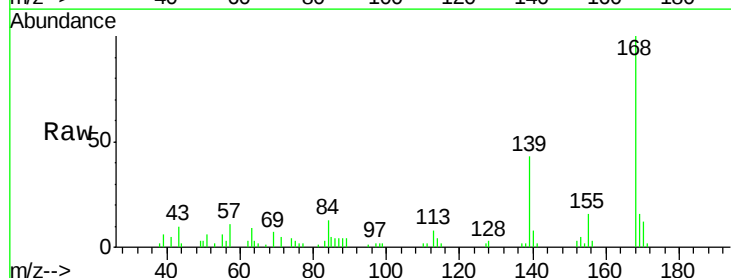
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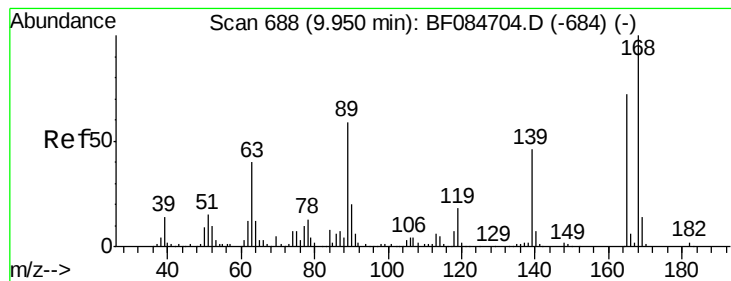
Tgt Ion:163 Resp: 239194
Ion Ratio Lower Upper
163 100
194 3.1 8.0 12.0#
164 10.2 8.0 12.0



#55
4-Nitrophenol
Concen: 2.94 ng
RT: 9.89 min Scan# 683
Delta R.T. 0.02 min
Lab File: BF084897.D
Acq: 6 Feb 2016 8:32

Tgt Ion:139 Resp: 11905
Ion Ratio Lower Upper
139 100
109 0.0 58.5 98.5#
65 3.6 57.6 97.6#





#56

2,4-Dinitrotoluene

Concen: 6.30 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.23 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

Tgt Ion:165 Resp: 39426

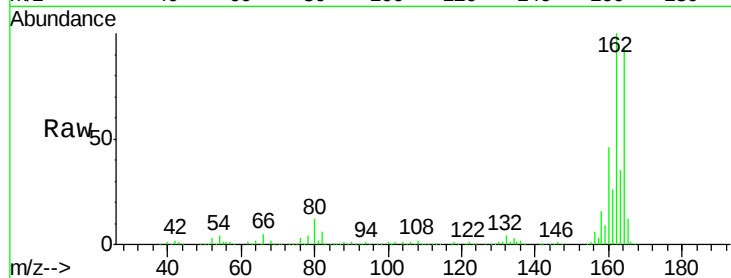
Ion Ratio Lower Upper

165 100

63 1.6 36.7 55.1#

89 1.7 61.9 92.9#

182 0.0 2.0 3.0#

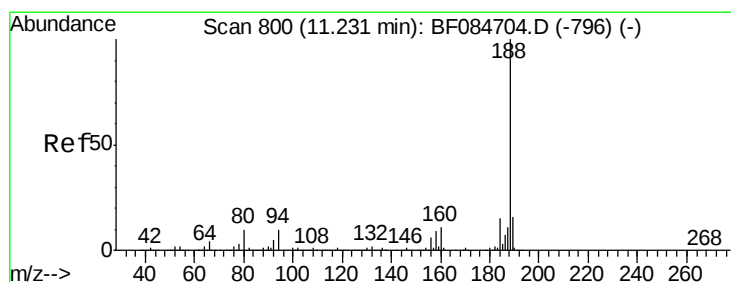
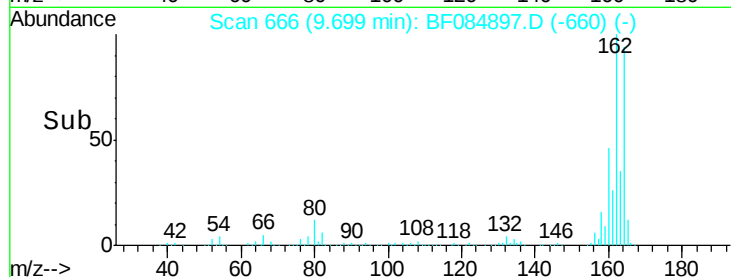
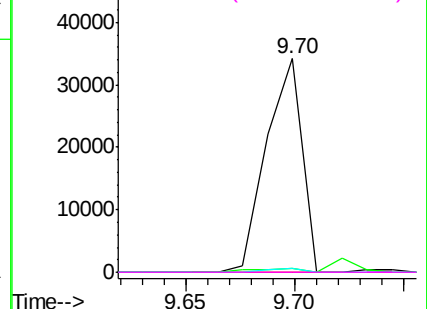


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.17 min Scan# 795

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

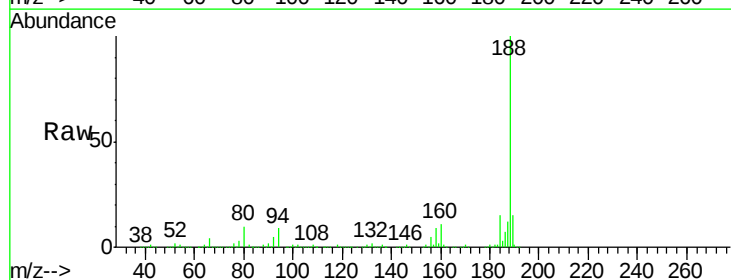
Tgt Ion:188 Resp: 501034

Ion Ratio Lower Upper

188 100

94 8.9 9.0 13.4#

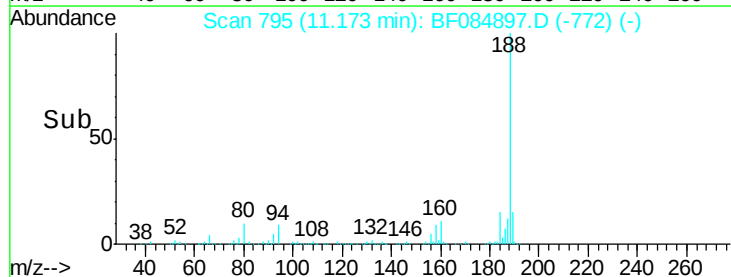
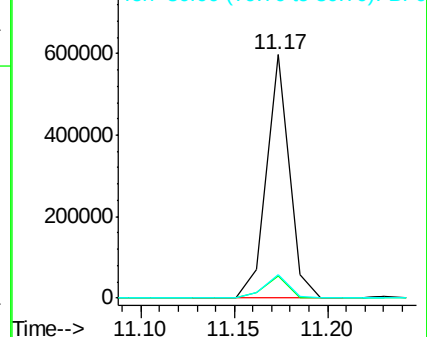
80 9.5 9.6 14.4#

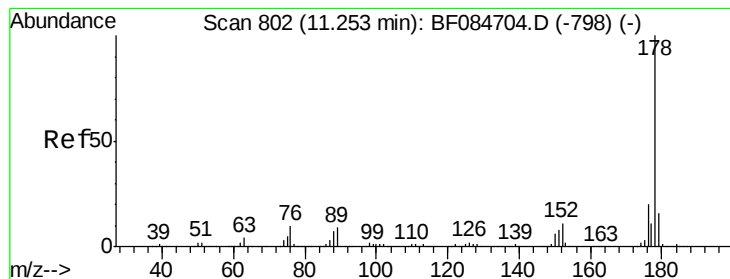


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 14.42 ng

RT: 11.20 min Scan# 797

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

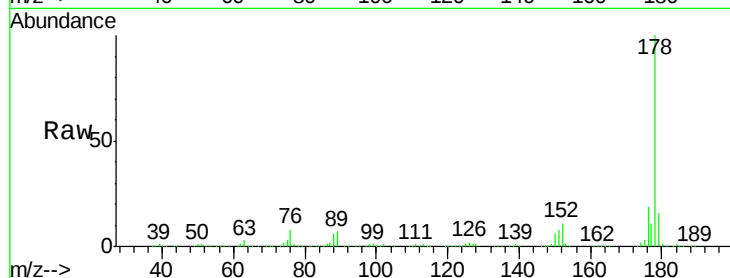
Tgt Ion:178 Resp: 400734

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

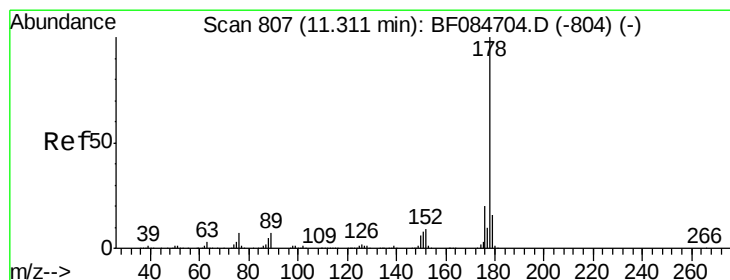
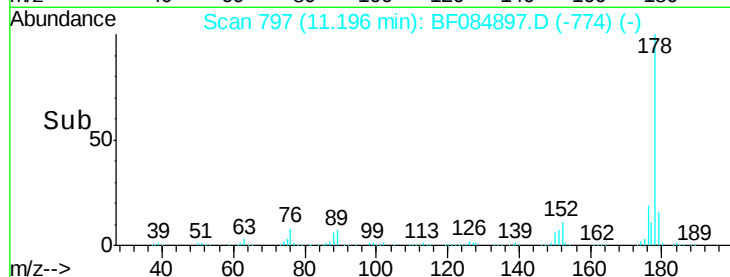
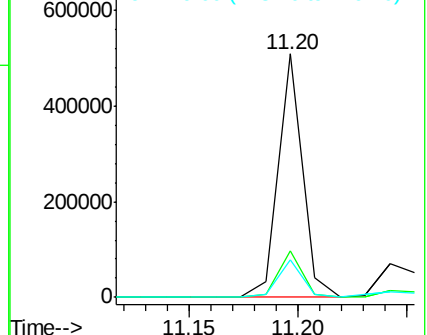
179 15.6 12.0 18.0



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



#71

Anthracene

Concen: 3.03 ng

RT: 11.24 min Scan# 801

Delta R.T. -0.05 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

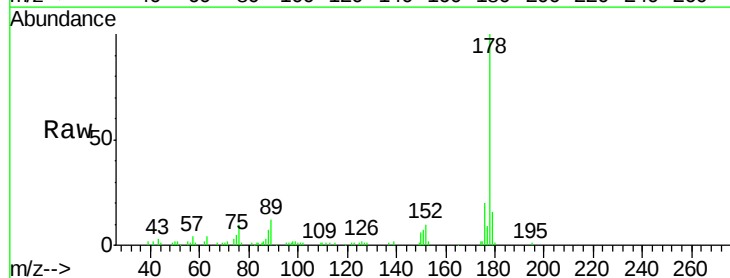
Tgt Ion:178 Resp: 84803

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

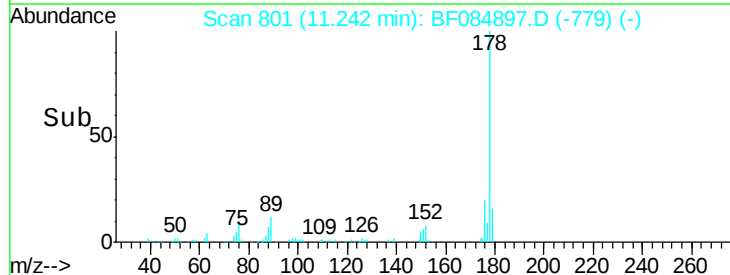
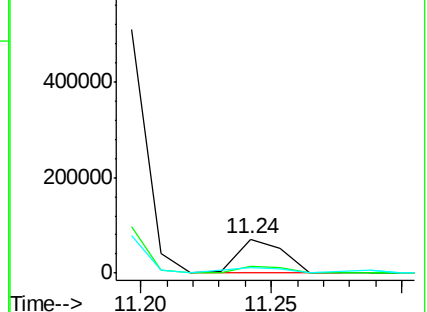
179 16.1 12.5 18.7

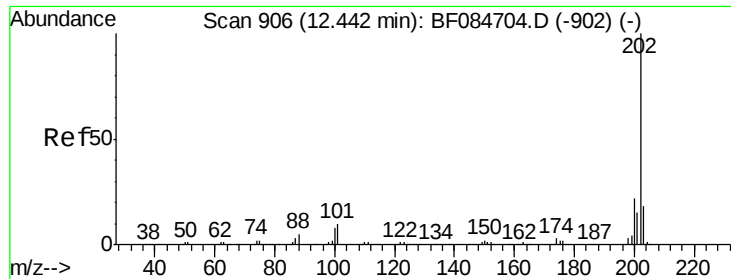


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 9.73 ng

RT: 12.37 min Scan# 900

Delta R.T. -0.05 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

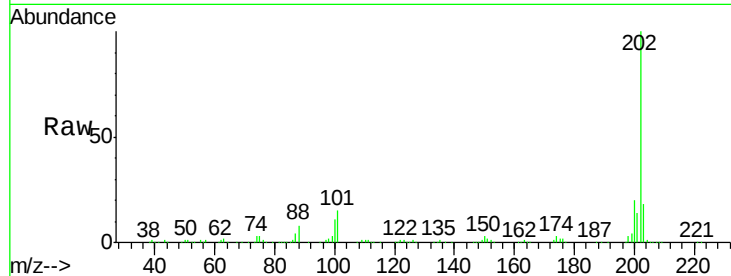
Tgt Ion: 202 Resp: 273804

Ion Ratio Lower Upper

202 100

101 15.2 0.0 32.8

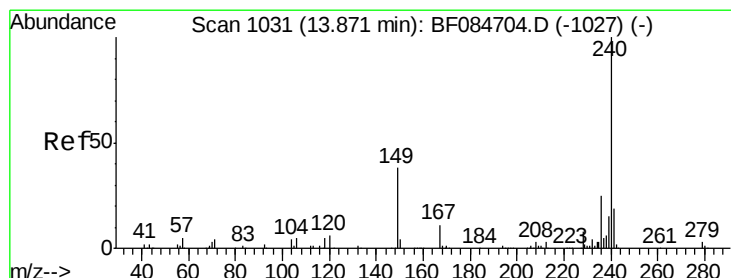
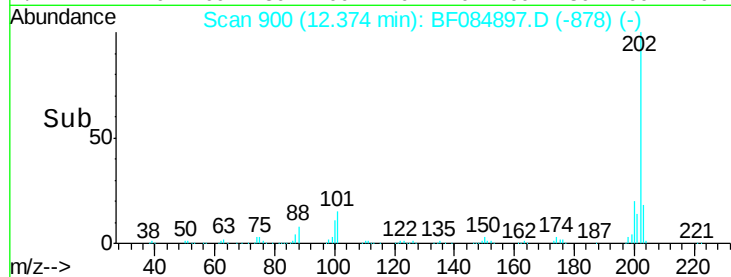
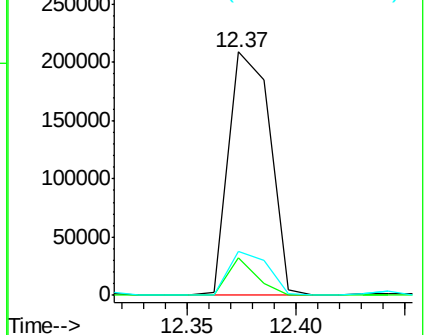
203 17.9 0.0 37.9



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: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

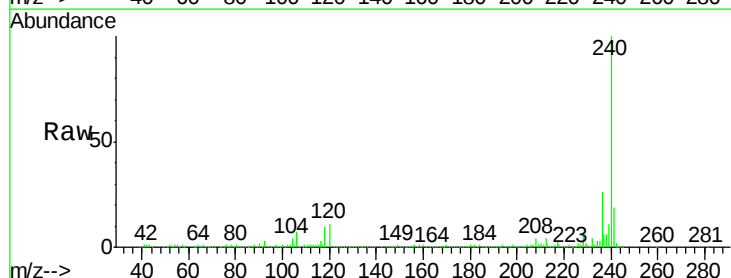
Tgt Ion: 240 Resp: 345204

Ion Ratio Lower Upper

240 100

120 10.7 9.5 14.3

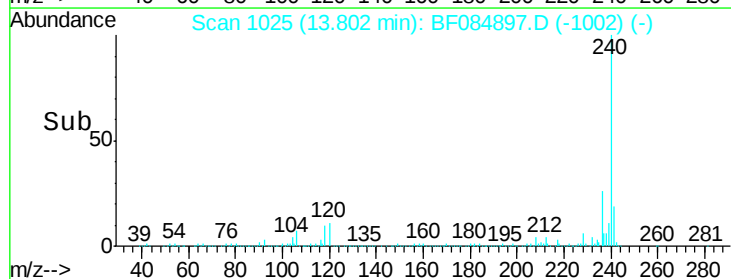
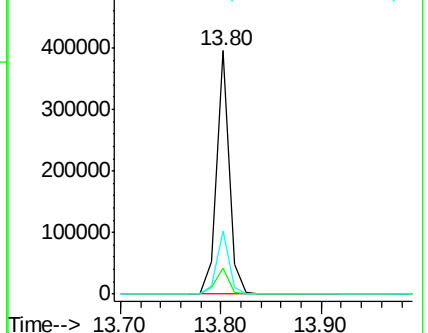
236 26.1 20.6 31.0

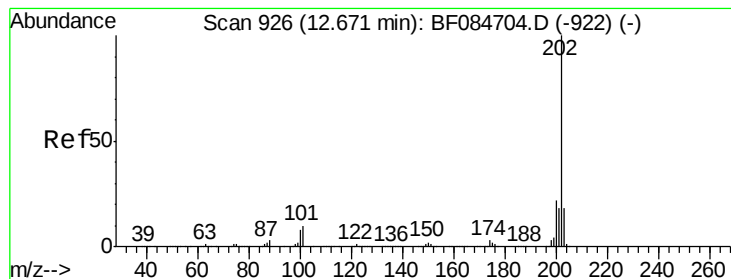


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 9.48 ng

RT: 12.60 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

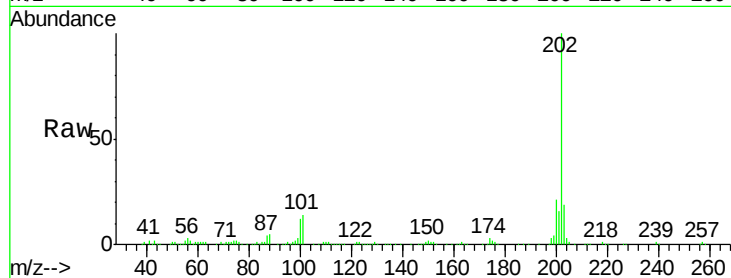
Tgt Ion:202 Resp: 250552

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

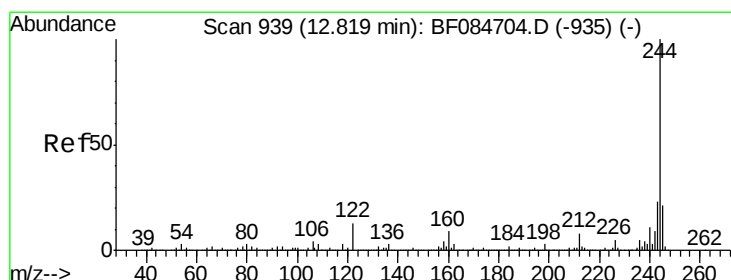
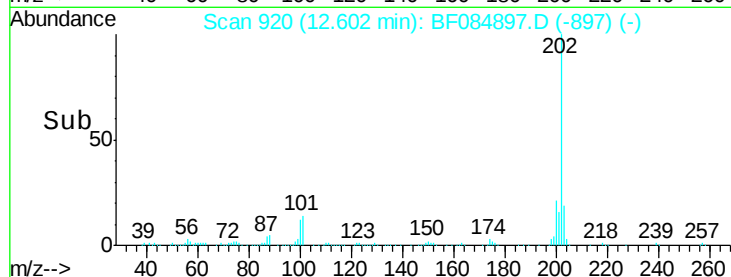
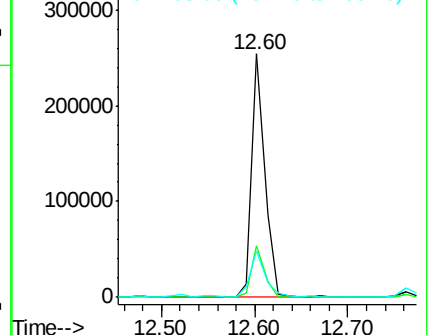
203 19.1 14.3 21.5



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: 73.85 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

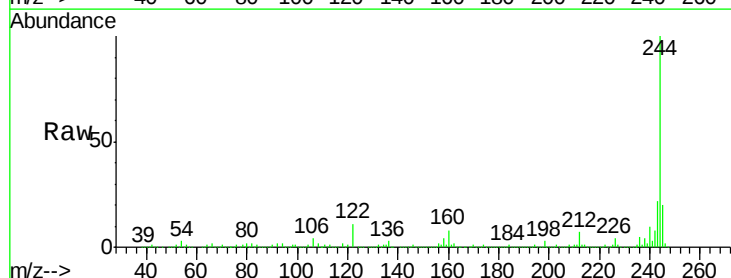
Tgt Ion:244 Resp: 1124962

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

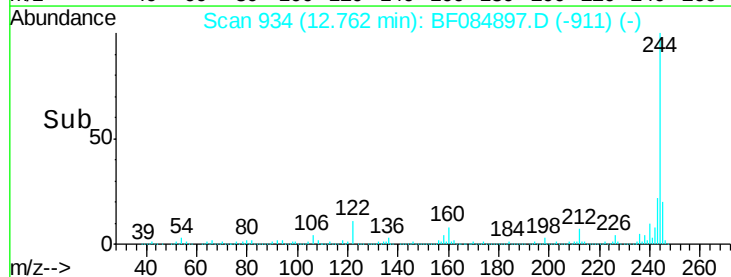
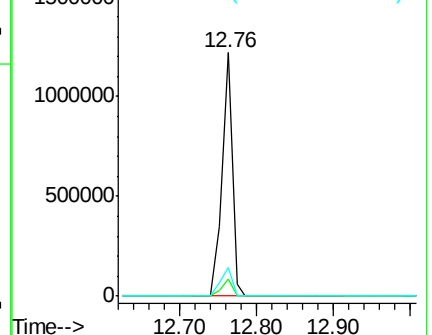
122 11.5 7.4 11.0#

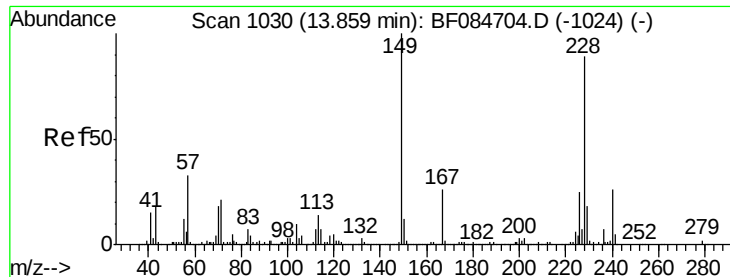


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.42 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

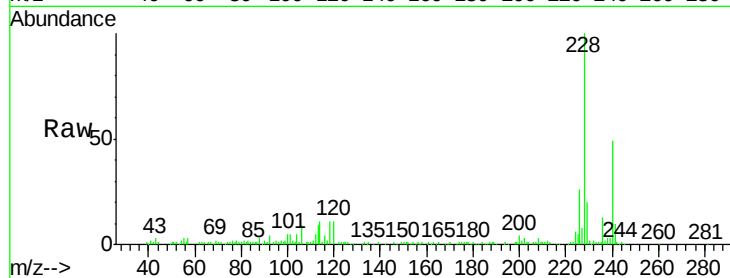
Tgt Ion:228 Resp: 116106

Ion Ratio Lower Upper

228 100

226 26.2 21.8 32.6

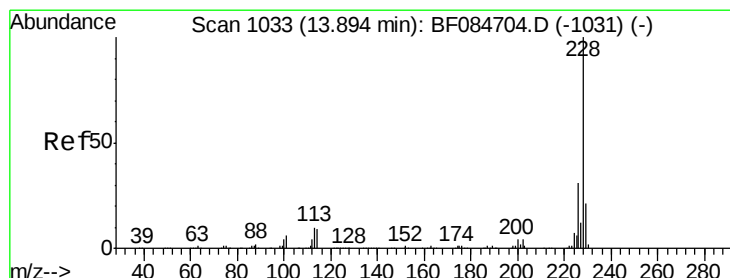
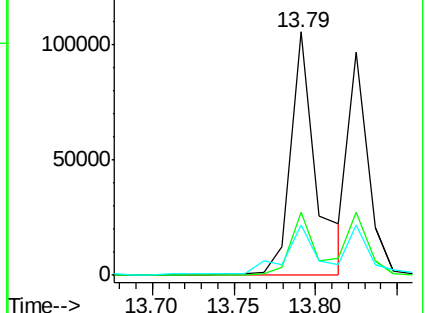
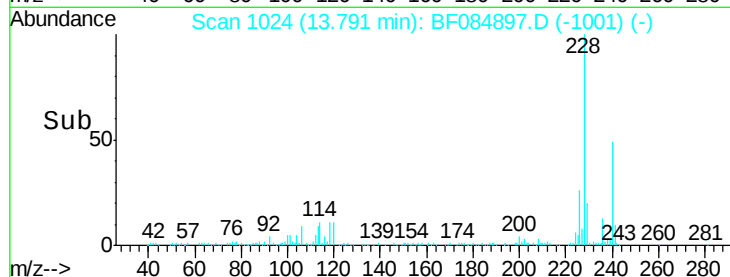
229 20.5 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.94 ng

RT: 13.83 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

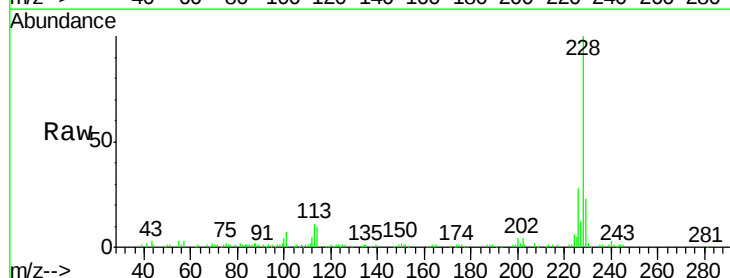
Tgt Ion:228 Resp: 81844

Ion Ratio Lower Upper

228 100

226 28.5 24.3 36.5

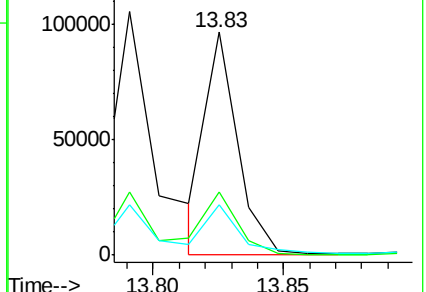
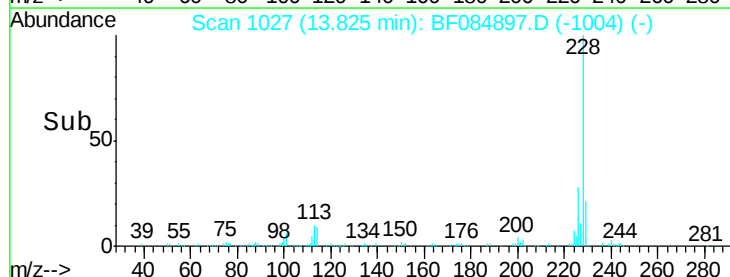
229 22.5 16.1 24.1

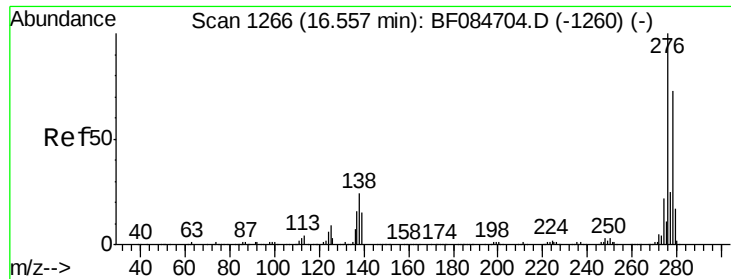


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

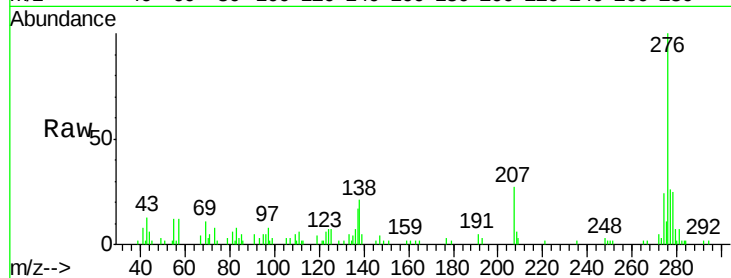




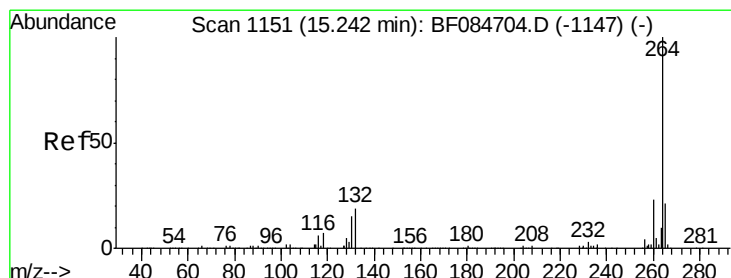
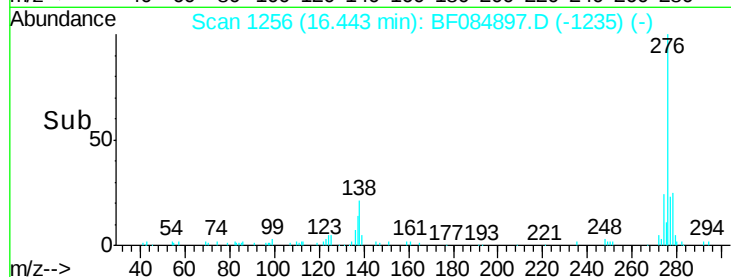
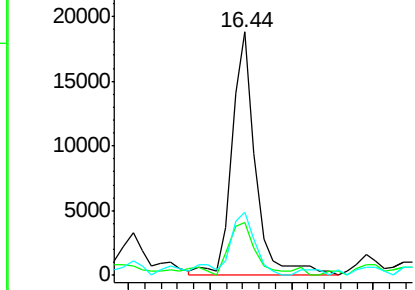
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.30 ng
 RT: 16.44 min Scan# 1256
 Delta R.T. -0.06 min
 Lab File: BF084897.D
 Acq: 6 Feb 2016 8:32

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B005(5-7)RX

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.6	20.6	30.8
277	29.4	20.1	30.1

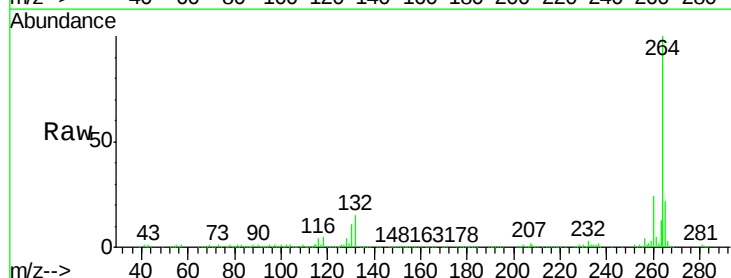


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

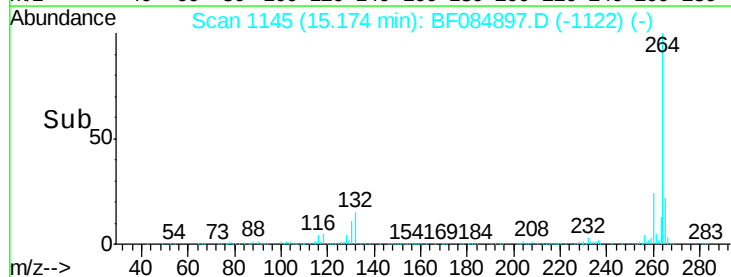
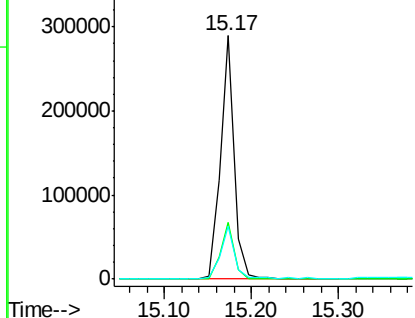


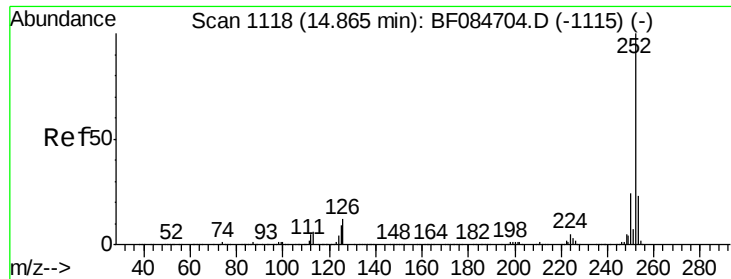
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.17 min Scan# 1145
 Delta R.T. -0.03 min
 Lab File: BF084897.D
 Acq: 6 Feb 2016 8:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.2
265	21.7	17.8	26.6



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





#87

Benzo(b)fluoranthene

Concen: 5.63 ng

RT: 14.80 min Scan# 1112

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

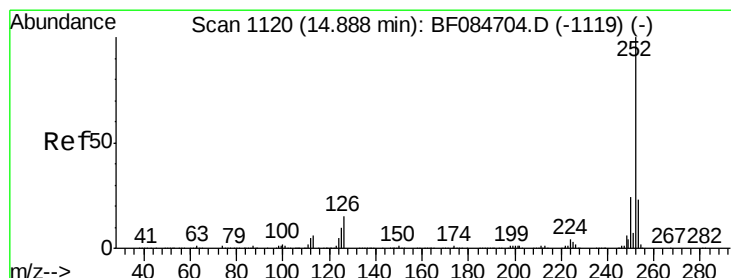
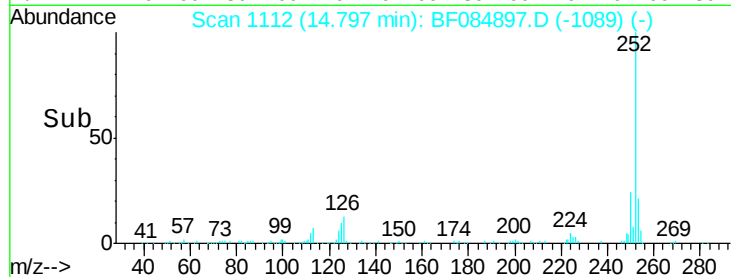
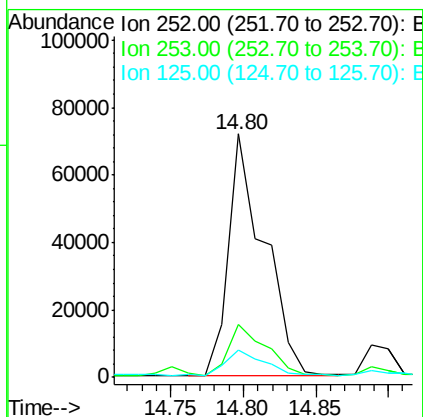
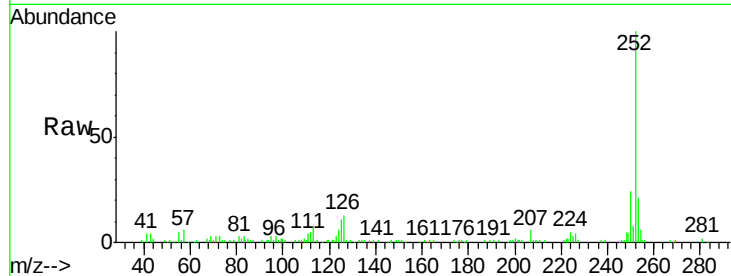
Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

Tgt Ion:	252	Resp:	122638
Ion Ratio	Lower	Upper	
252	100		
253	21.5	17.3	25.9
125	11.1	6.5	9.7#



#88

Benzo(k)fluoranthene

Concen: 6.81 ng

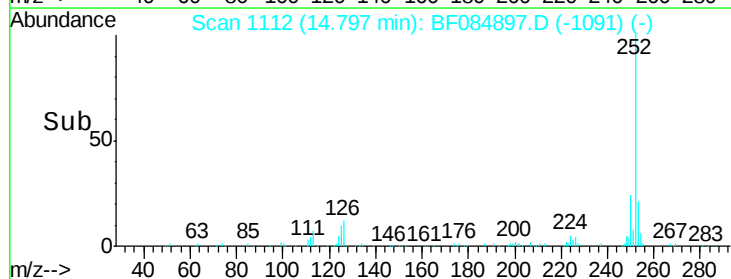
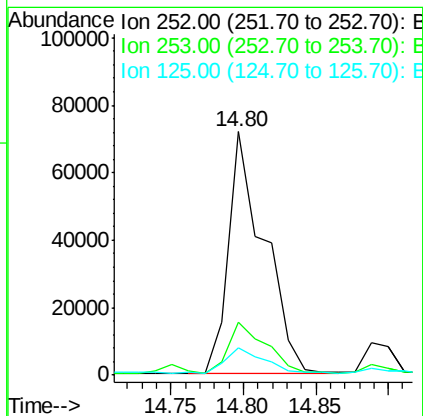
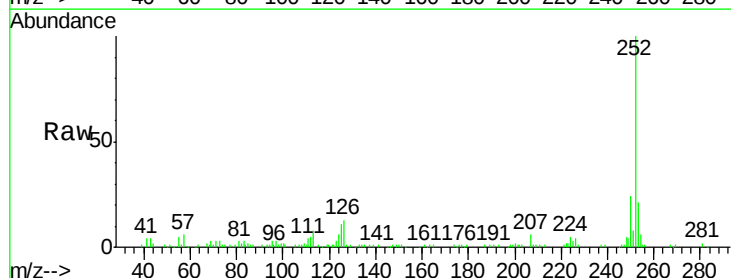
RT: 14.80 min Scan# 1112

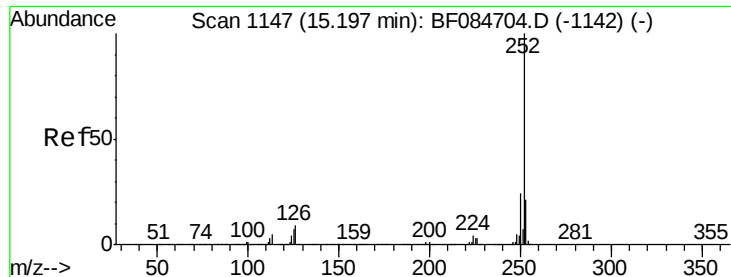
Delta R.T. -0.06 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Tgt Ion:	252	Resp:	122638
Ion Ratio	Lower	Upper	
252	100		
253	21.5	18.1	27.1
125	11.1	9.0	13.6





#89

Benzo(a)pyrene

Concen: 3.82 ng

RT: 15.12 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

Instrument :

BNA_F

ClientSampleId :

SUP-B005(5-7)RX

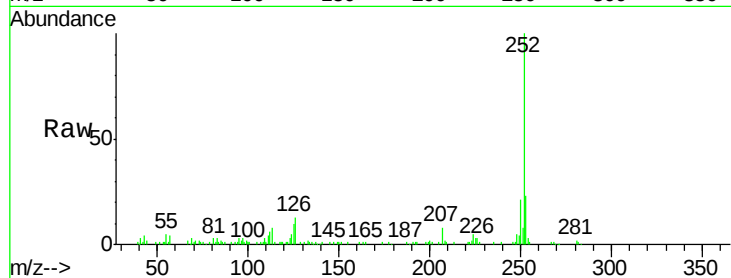
Tgt Ion:252 Resp: 70858

Ion Ratio Lower Upper

252 100

253 23.4 17.3 25.9

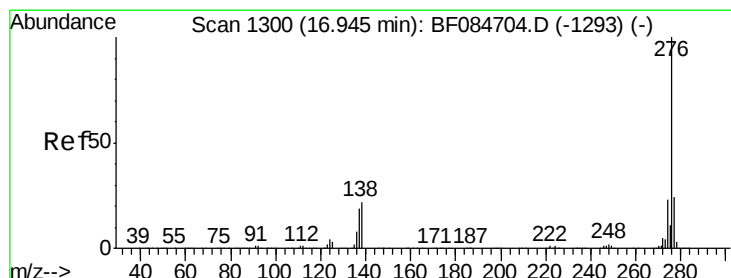
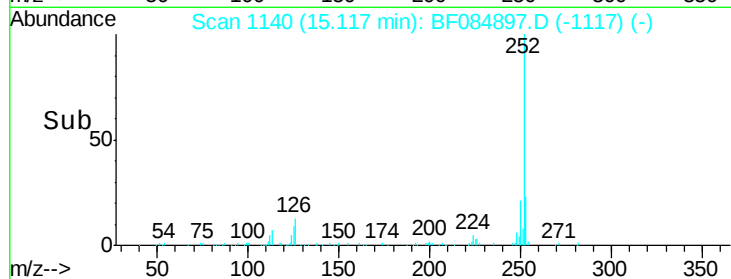
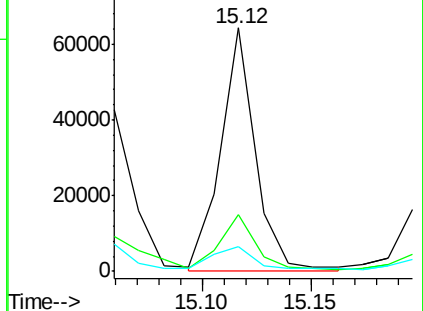
125 10.3 7.0 10.4



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



#91

Benzo(g,h,i)perylene

Concen: 2.11 ng

RT: 16.82 min Scan# 1289

Delta R.T. -0.07 min

Lab File: BF084897.D

Acq: 6 Feb 2016 8:32

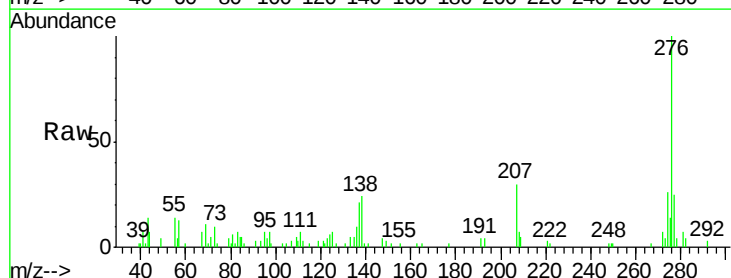
Tgt Ion:276 Resp: 33175

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 24.4 17.8 26.6



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

