

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052615\
 Data File : BF079493.D
 Acq On : 26 May 2015 23:47
 Operator : TP/IZ
 Sample : G2289-12 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Quant Time: May 27 01:21:29 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 26 19:25:27 2015
 Response via : Initial Calibration

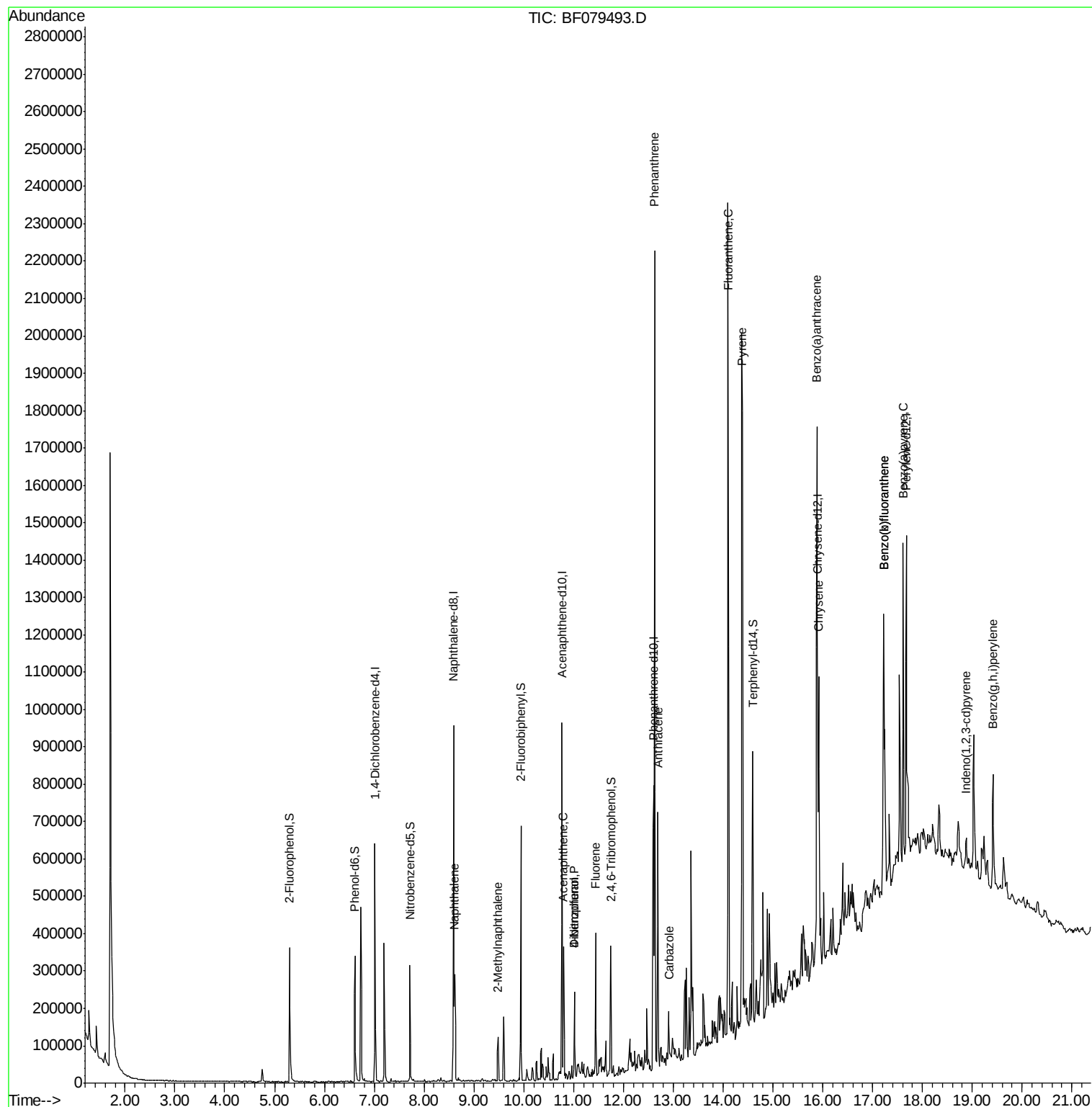
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	98742	20.00	ng	0.00
21) Naphthalene-d8	8.59	136	423089	20.00	ng	0.00
38) Acenaphthene-d10	10.76	164	211549	20.00	ng	0.00
63) Phenanthrene-d10	12.61	188	400591	20.00	ng	0.01
75) Chrysene-d12	15.90	240	415110	20.00	ng	0.02
86) Perylene-d12	17.68	264	453003	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	118576	20.83	ng	0.00
7) Phenol-d6	6.62	99	174757	24.08	ng	0.00
23) Nitrobenzene-d5	7.71	82	104232	14.24	ng	0.00
41) 2,4,6-Tribromophenol	11.75	330	52783	22.72	ng	0.00
44) 2-Fluorobiphenyl	9.94	172	208272	14.05	ng	0.00
78) Terphenyl-d14	14.59	244	241202	13.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.62	128	149461	7.36	ng	99
37) 2-Methylnaphthalene	9.48	142	44089	3.13	ng	99
51) Acenaphthene	10.80	154	82028	6.62	ng	99
54) Dibenzofuran	11.02	168	91013	4.98	ng	97
55) 4-Nitrophenol	11.02	139	34693	15.44	ng	# 14
57) Fluorene	11.44	166	115025	7.64	ng	99
70) Phenanthrene	12.63	178	904982	41.18	ng	98
71) Anthracene	12.70	178	320367	14.36	ng	100
72) Carbazole	12.91	167	73436	3.42	ng	98
73) Di-n-butylphthalate	13.36	149	3889	Below Cal		# 1
74) Fluoranthene	14.10	202	1091176	46.30	ng	94
77) Pyrene	14.39	202	1064866	41.41	ng	100
80) Benzo(a)anthracene	15.89	228	499130	20.90	ng	100
82) Chrysene	15.92	228	413082	18.20	ng	97
85) Indeno(1,2,3-cd)pyrene	18.88	276	58779	2.01	ng	93
87) Benzo(b)fluoranthene	17.22	252	720854	27.90	ng	# 95
88) Benzo(k)fluoranthene	17.22	252	720854	31.20	ng	# 93
89) Benzo(a)pyrene	17.61	252	439451	18.25	ng	98
91) Benzo(g,h,i)perylene	19.42	276	263123	9.27	ng	97

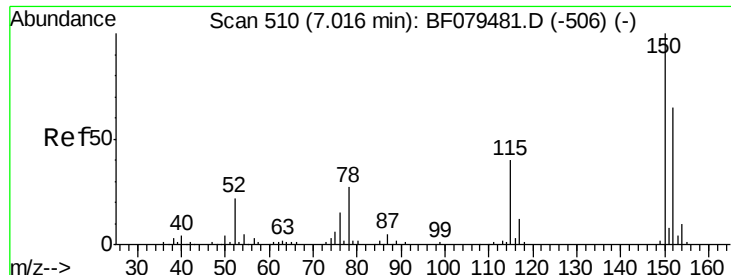
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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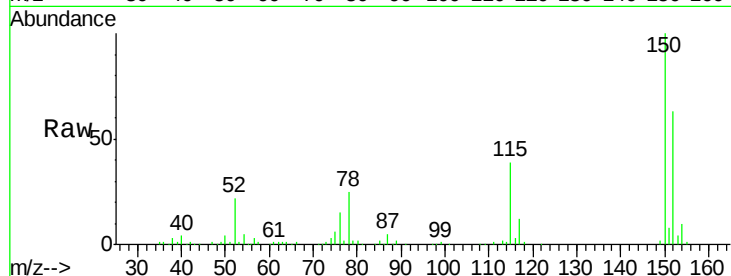


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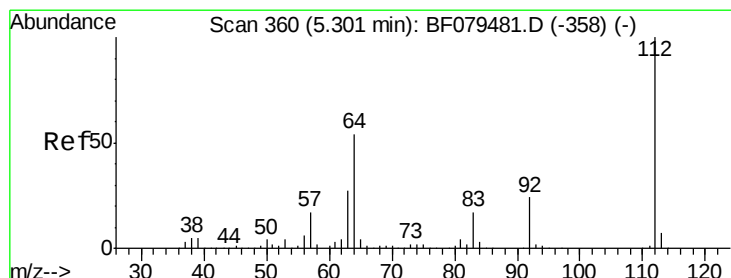
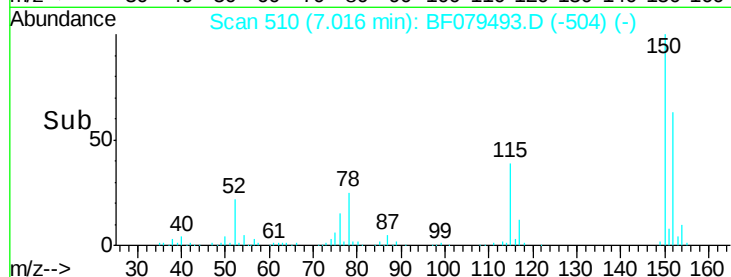
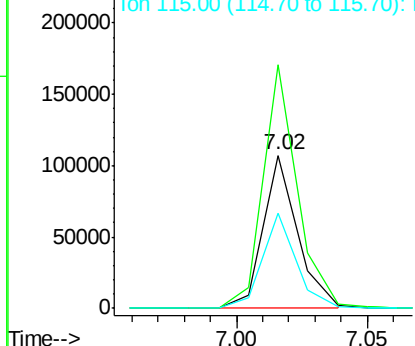
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.02 min Scan# 510
Delta R.T. 0.00 min
Lab File: BF079493.D
Acq: 26 May 2015 23:47

Instrument :
BNA_F
ClientSampleId :
SB-31D

Tgt Ion:152 Resp: 98742
Ion Ratio Lower Upper
152 100
150 159.4 124.0 186.0
115 62.0 49.6 74.4



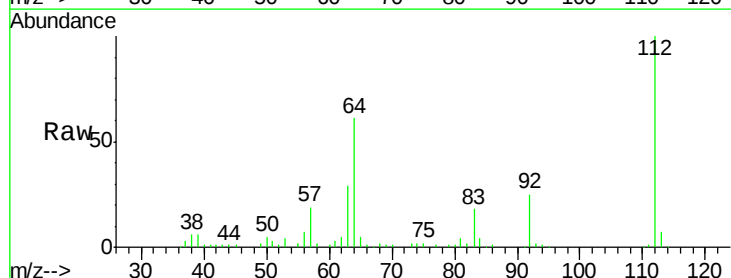
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



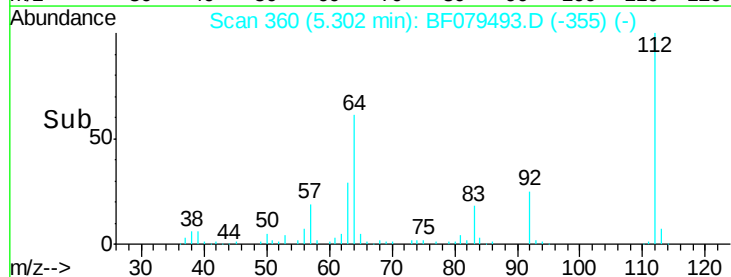
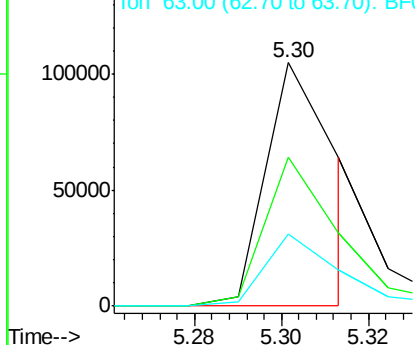
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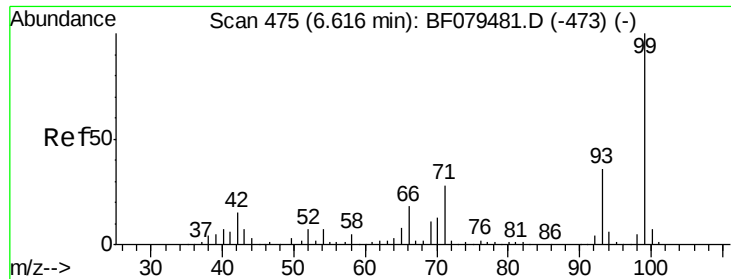
2-Fluorophenol
Concen: 20.83 ng
RT: 5.30 min Scan# 360
Delta R.T. 0.00 min
Lab File: BF079493.D
Acq: 26 May 2015 23:47

Tgt Ion:112 Resp: 118576
Ion Ratio Lower Upper
112 100
64 61.3 43.5 65.3
63 29.4 21.8 32.8



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: 24.08 ng

RT: 6.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

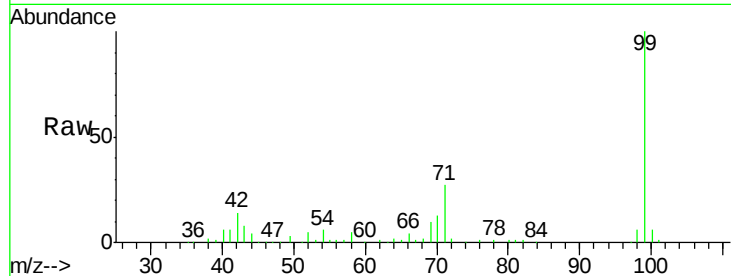
Tgt Ion: 99 Resp: 174757

Ion Ratio Lower Upper

99 100

42 14.4 11.9 17.9

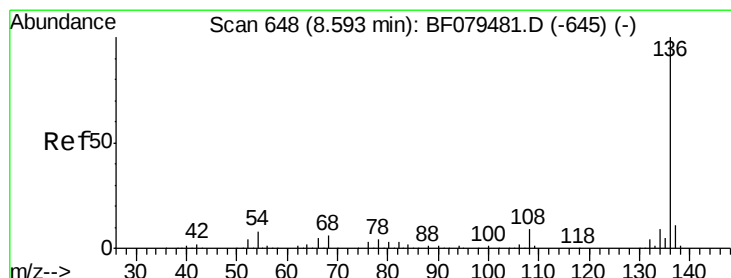
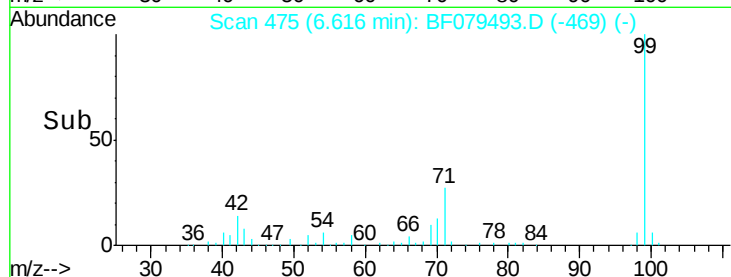
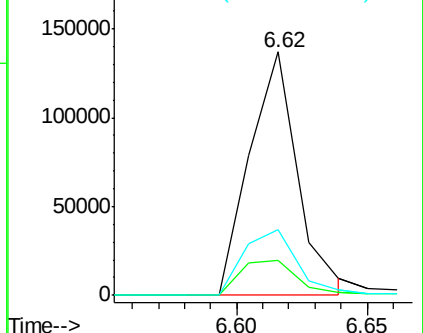
71 27.1 22.1 33.1



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.59 min Scan# 648

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Tgt Ion: 136 Resp: 423089

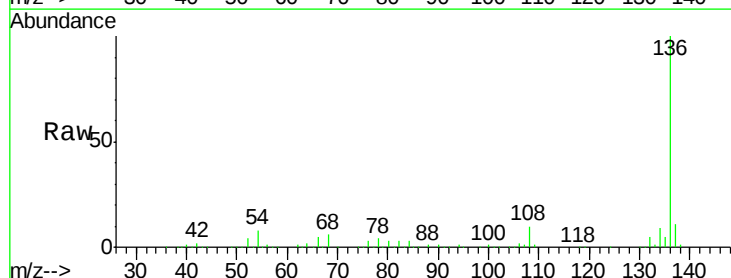
Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 7.8 6.6 9.8

68 6.1 4.7 7.1

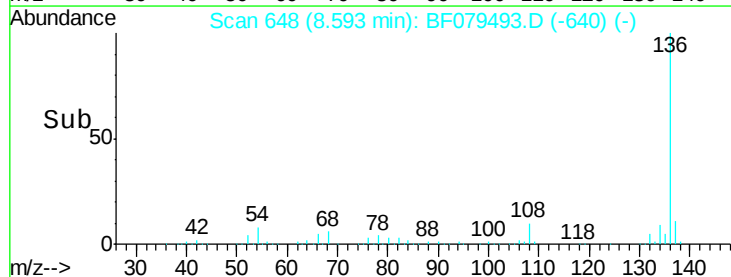
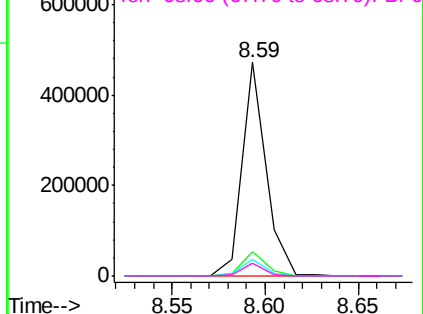


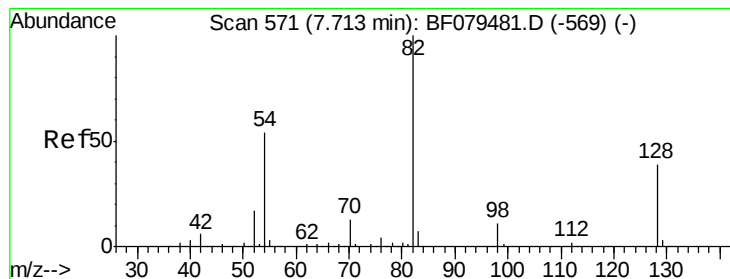
Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.24 ng

RT: 7.71 min Scan# 571

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

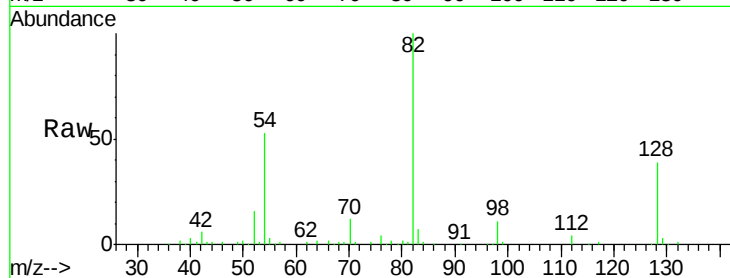
Tgt Ion: 82 Resp: 104232

Ion Ratio Lower Upper

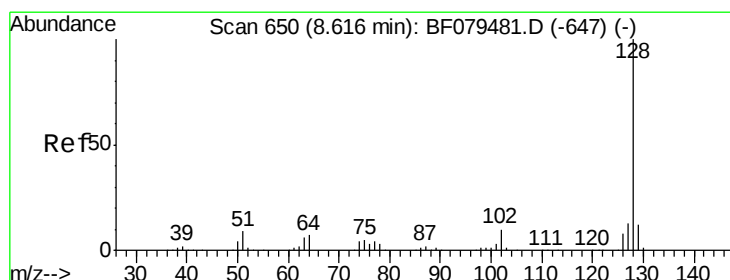
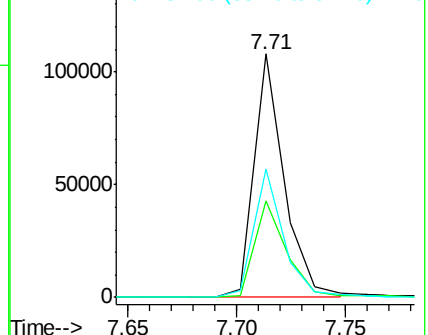
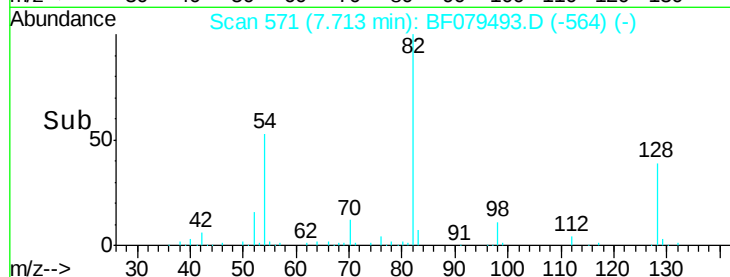
82 100

128 39.5 30.8 46.2

54 52.6 42.8 64.2



Abundance Ion 82.00 (81.70 to 82.70): BF079493.D (-564) (-)



#31

Naphthalene

Concen: 7.36 ng

RT: 8.62 min Scan# 650

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

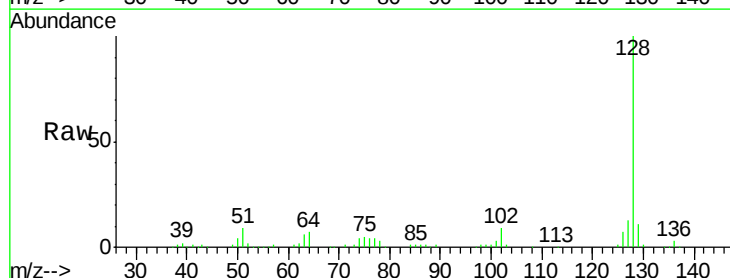
Tgt Ion: 128 Resp: 149461

Ion Ratio Lower Upper

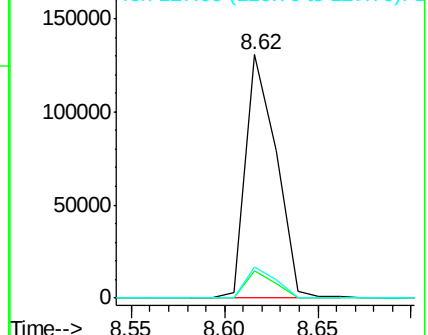
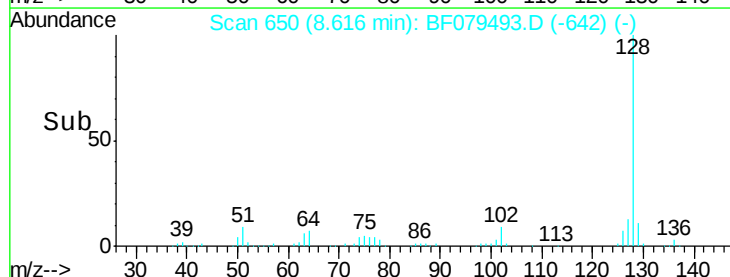
128 100

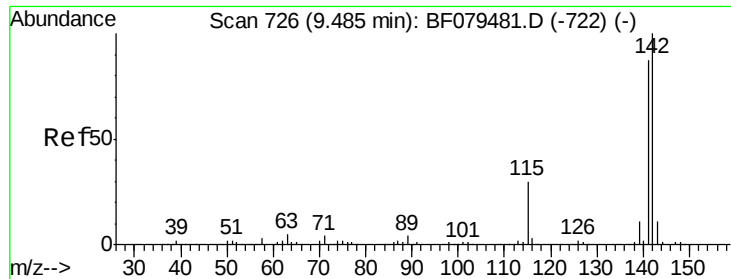
129 11.2 9.3 13.9

127 12.7 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): BF079493.D (-642) (-)

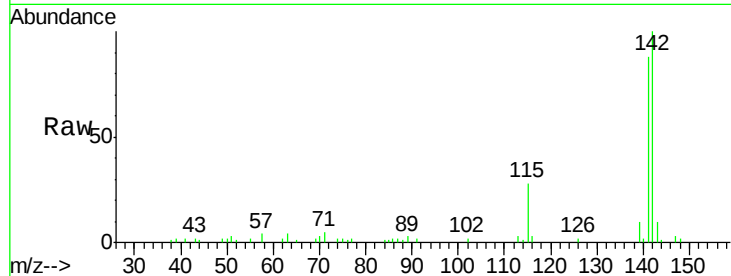




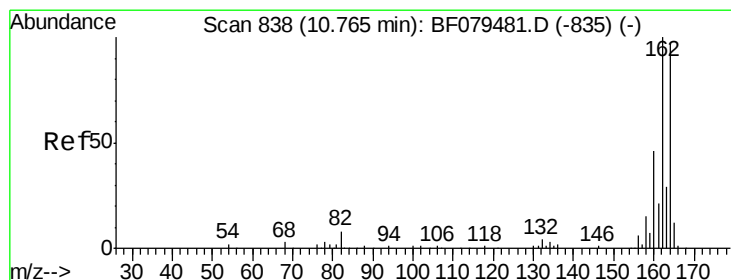
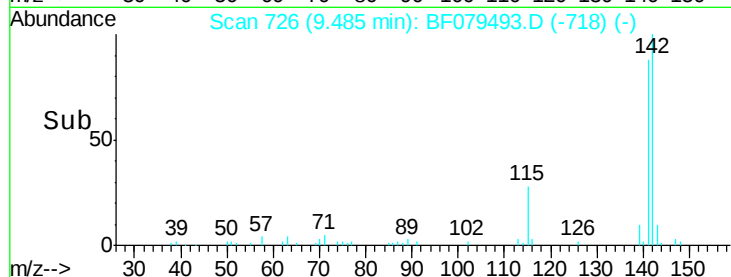
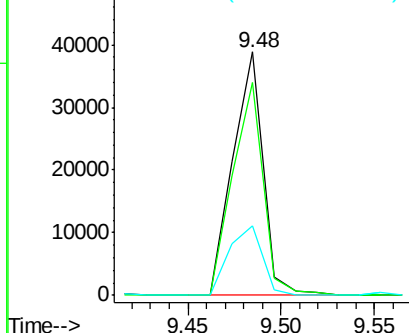
#37
 2-Methylnaphthalene
 Concen: 3.13 ng
 RT: 9.48 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

Instrument :
 BNA_F
 ClientSampleID :
 SB-31D

Tgt Ion:142 Resp: 44089
 Ion Ratio Lower Upper
 142 100
 141 87.6 69.5 104.3
 115 28.4 23.8 35.6

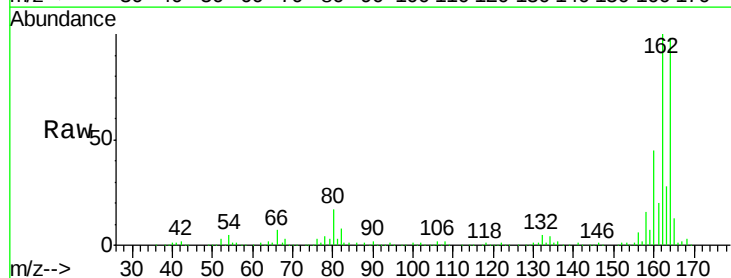


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

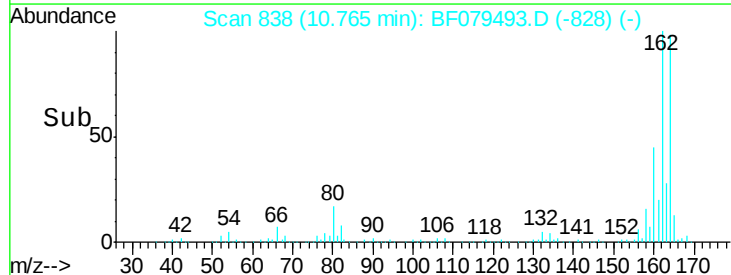
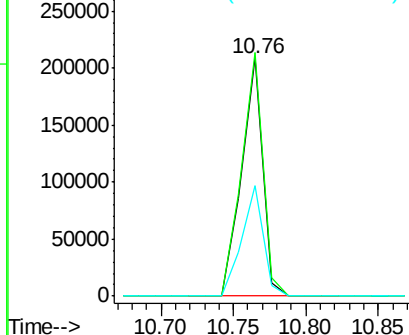


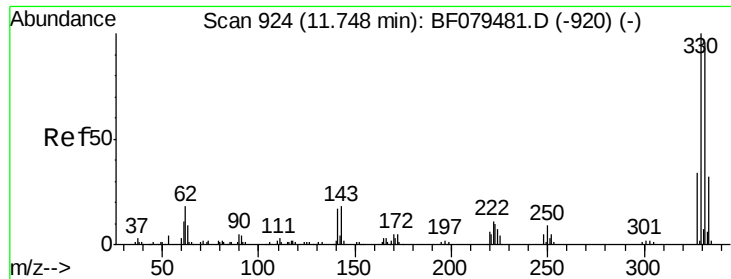
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.76 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

Tgt Ion:164 Resp: 211549
 Ion Ratio Lower Upper
 164 100
 162 102.3 82.6 124.0
 160 46.2 37.7 56.5



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

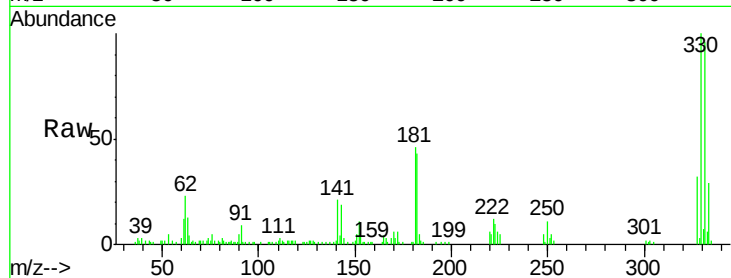




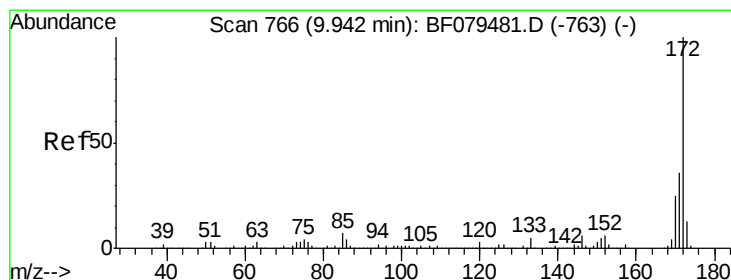
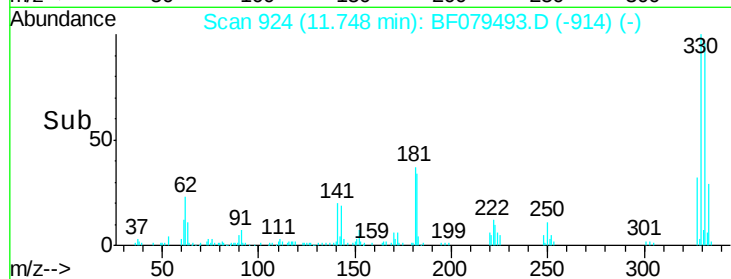
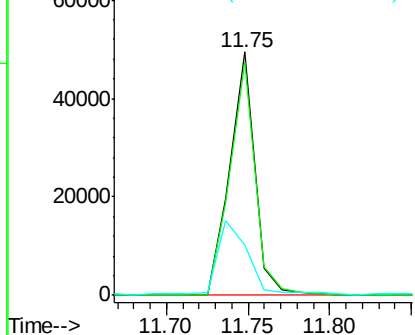
#41
 2,4,6-Tribromophenol
 Concen: 22.72 ng
 RT: 11.75 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	0.0	0.0#
141	39.5	0.0	0.0#

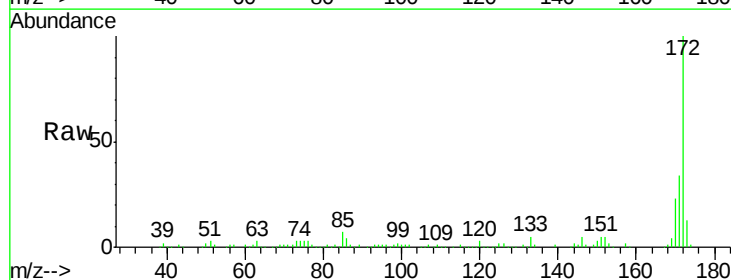


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

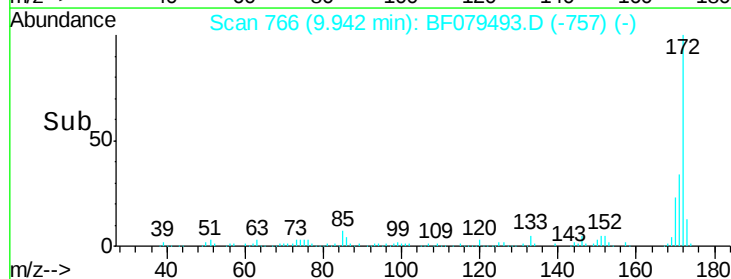
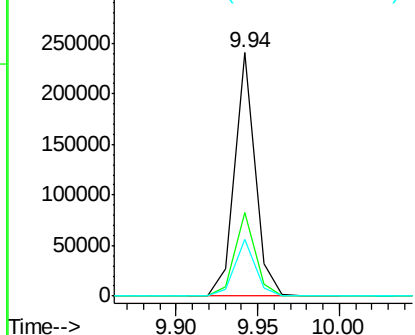


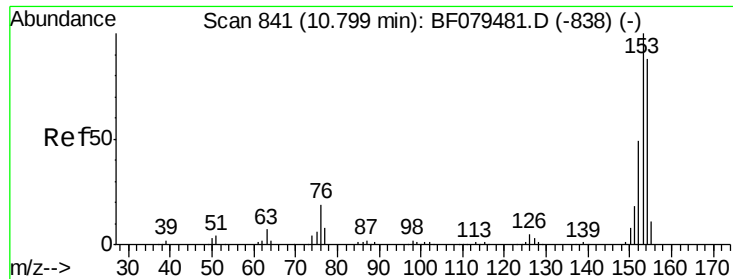
#44
 2-Fluorobiphenyl
 Concen: 14.05 ng
 RT: 9.94 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.5	42.7
170	23.3	19.7	29.5



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





#51

Acenaphthene

Concen: 6.62 ng

RT: 10.80 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

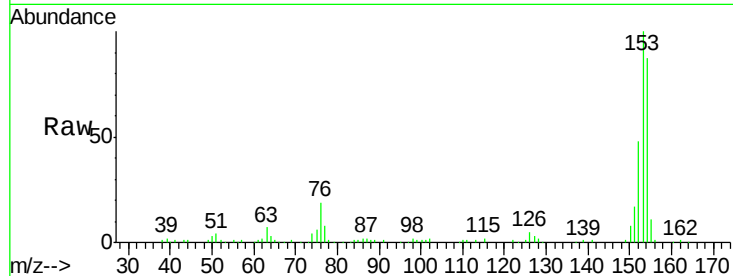
Tgt Ion:154 Resp: 82028

Ion Ratio Lower Upper

154 100

153 115.3 91.1 136.7

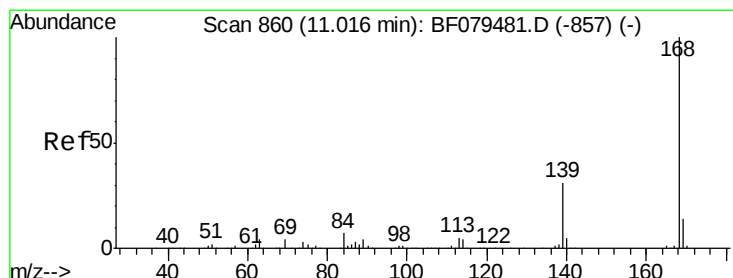
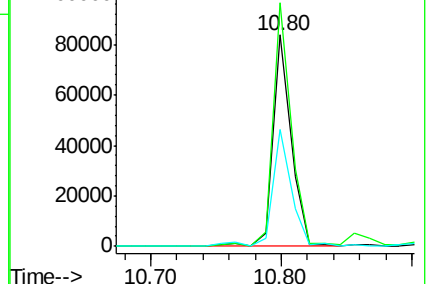
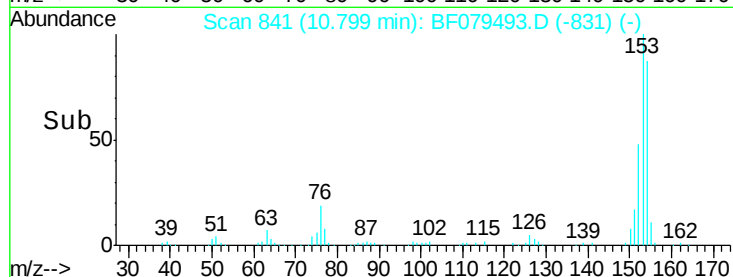
152 55.3 44.6 66.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.98 ng

RT: 11.02 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

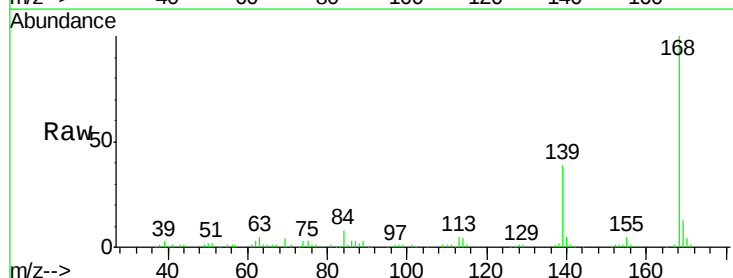
Tgt Ion:168 Resp: 91013

Ion Ratio Lower Upper

168 100

139 38.7 32.9 49.3

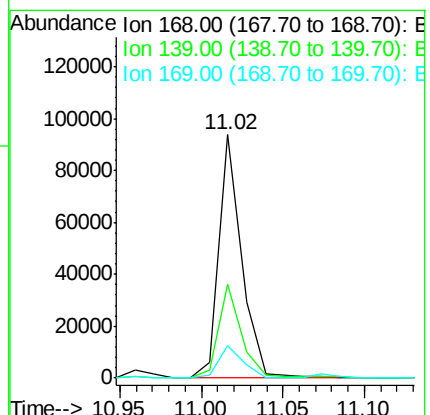
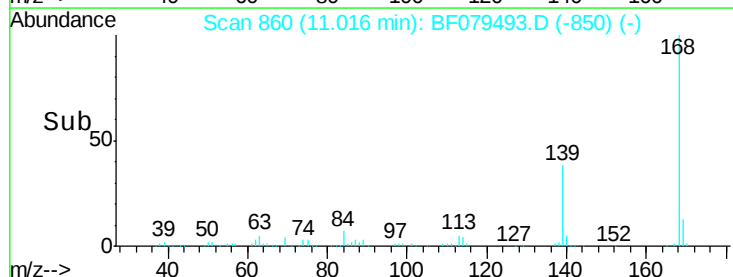
169 13.1 11.1 16.7

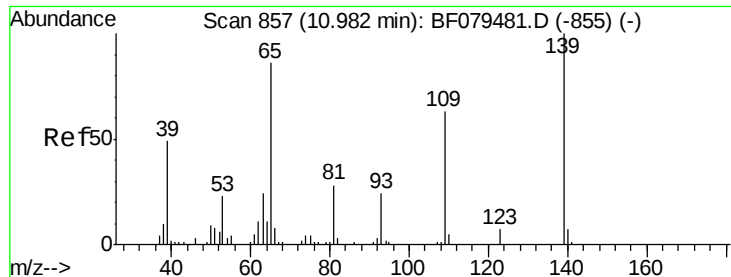


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 15.44 ng

RT: 11.02 min Scan# 860

Delta R.T. 0.03 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

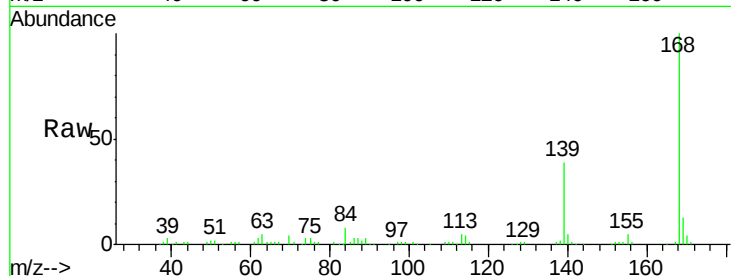
Tgt Ion:139 Resp: 34693

Ion Ratio Lower Upper

139 100

109 1.6 42.8 82.8#

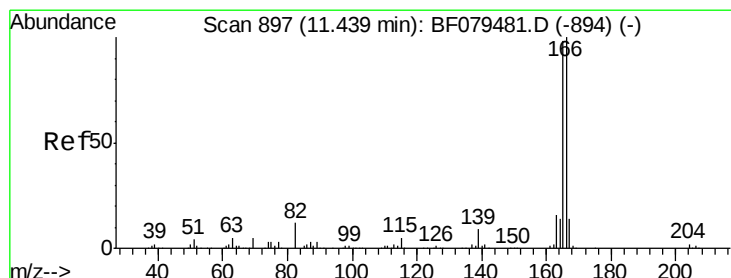
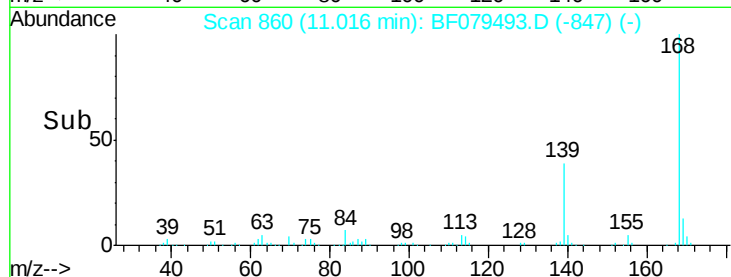
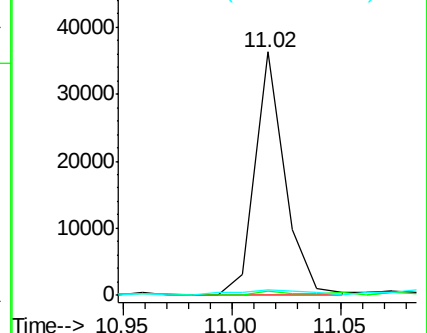
65 2.5 66.3 106.3#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 7.64 ng

RT: 11.44 min Scan# 897

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

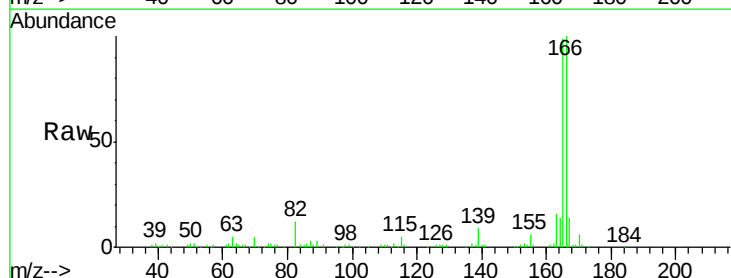
Tgt Ion:166 Resp: 115025

Ion Ratio Lower Upper

166 100

165 98.8 78.6 117.8

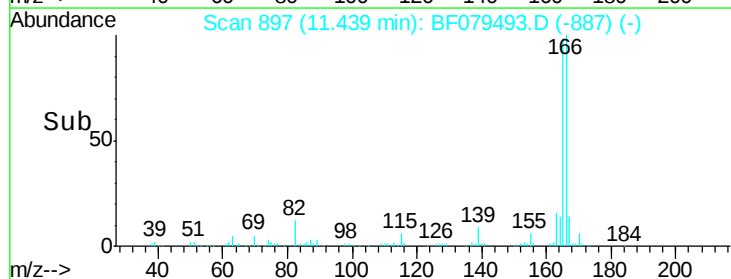
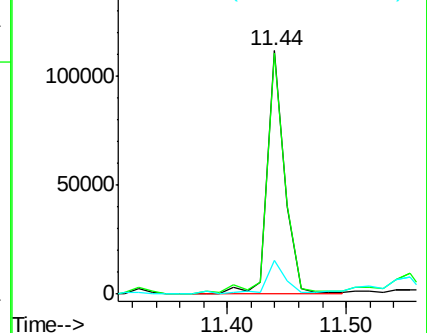
167 14.1 10.8 16.2

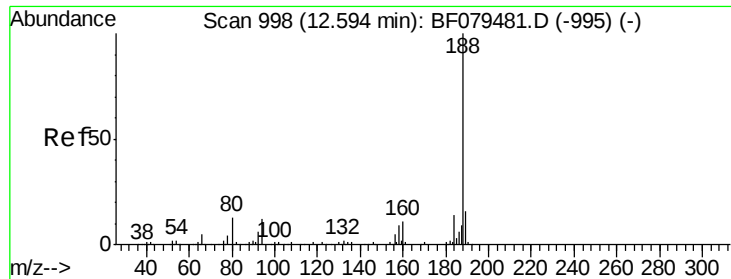


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

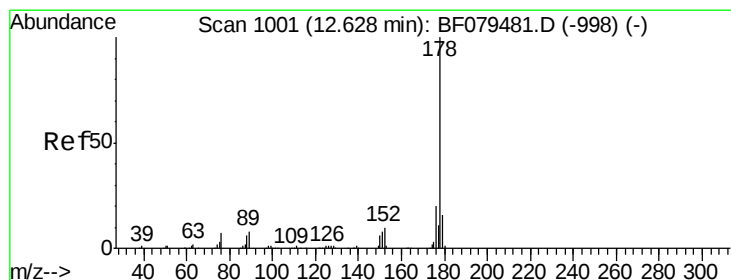
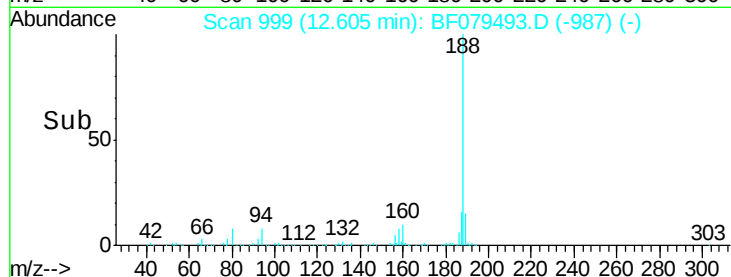
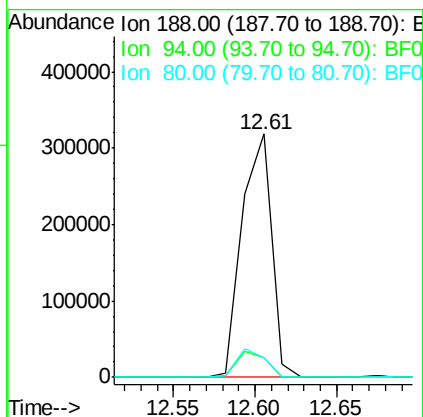
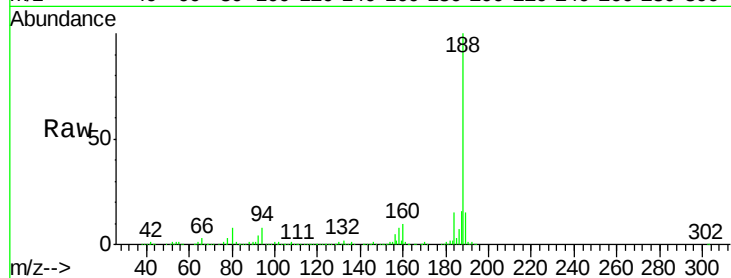




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.61 min Scan# 999
Delta R.T. 0.01 min
Lab File: BF079493.D
Acq: 26 May 2015 23:47

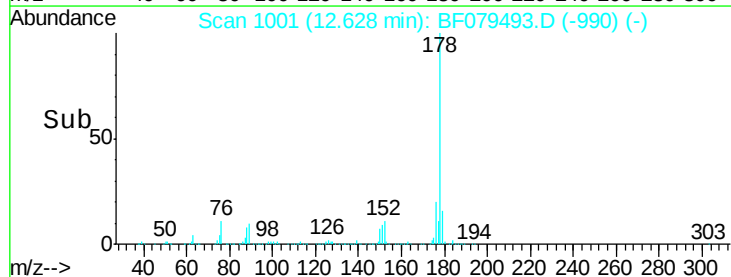
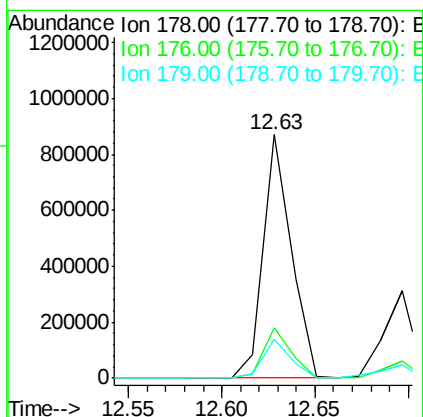
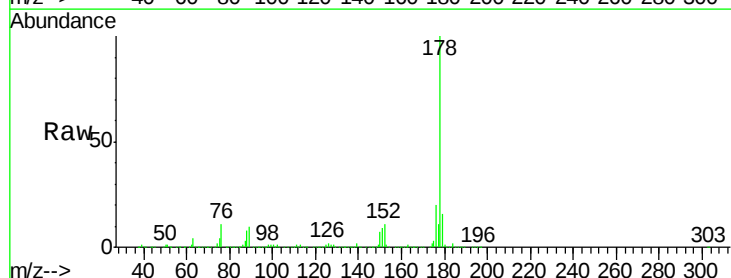
Instrument :
BNA_F
ClientSampleId :
SB-31D

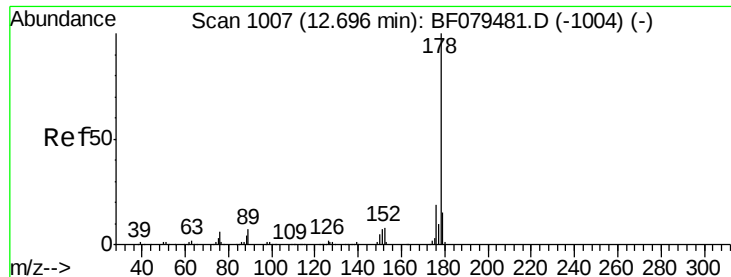
Tgt Ion:188 Resp: 400591
Ion Ratio Lower Upper
188 100
94 7.9 9.8 14.6#
80 8.0 10.5 15.7#



#70
Phenanthrene
Concen: 41.18 ng
RT: 12.63 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BF079493.D
Acq: 26 May 2015 23:47

Tgt Ion:178 Resp: 904982
Ion Ratio Lower Upper
178 100
176 20.5 15.7 23.5
179 15.9 12.4 18.6





#71

Anthracene

Concen: 14.36 ng

RT: 12.70 min Scan# 1007

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

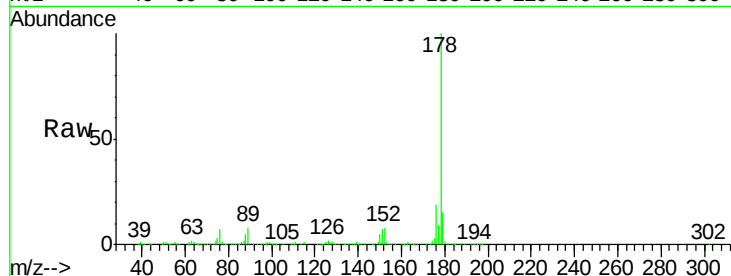
Tgt Ion:178 Resp: 320367

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

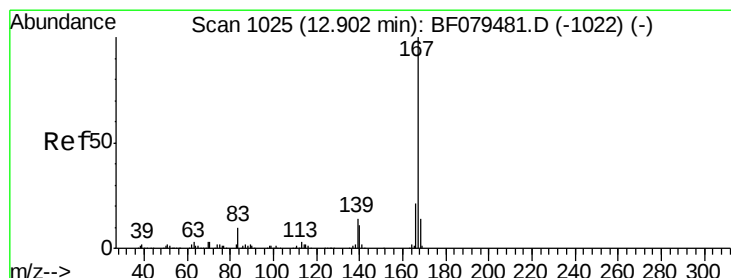
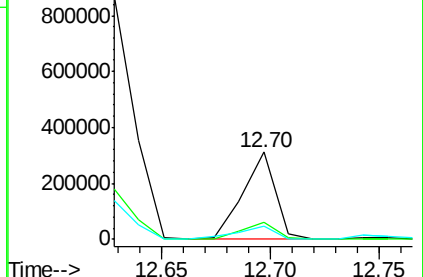
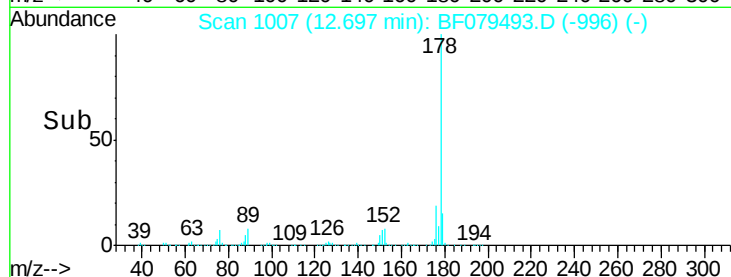
179 15.3 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 3.42 ng

RT: 12.91 min Scan# 1026

Delta R.T. 0.01 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

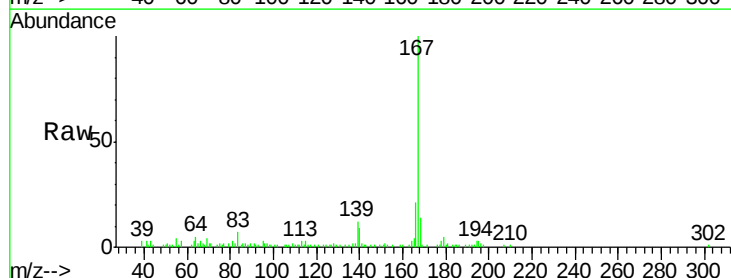
Tgt Ion:167 Resp: 73436

Ion Ratio Lower Upper

167 100

166 21.0 17.0 25.4

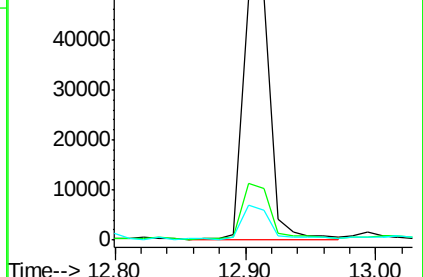
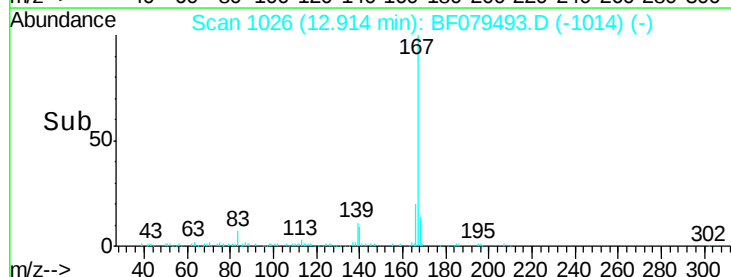
139 12.1 11.2 16.8

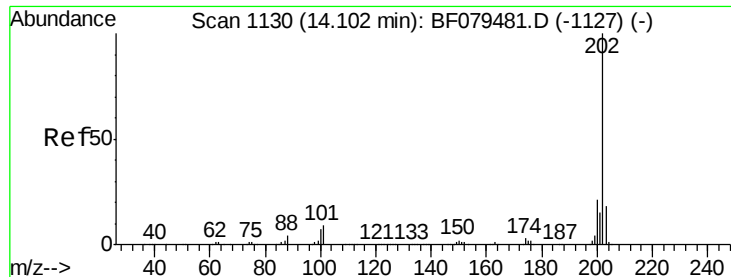


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 46.30 ng

RT: 14.10 min Scan# 1130

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

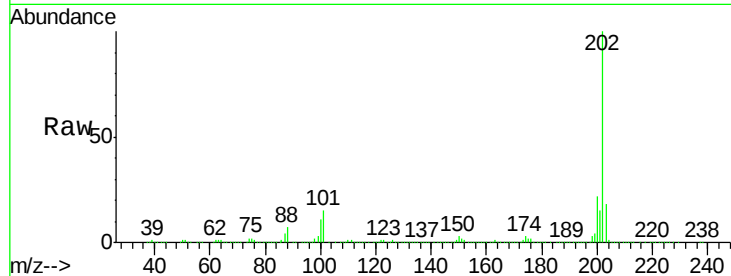
Tgt Ion:202 Resp: 1091176

Ion Ratio Lower Upper

202 100

101 14.9 0.0 29.3

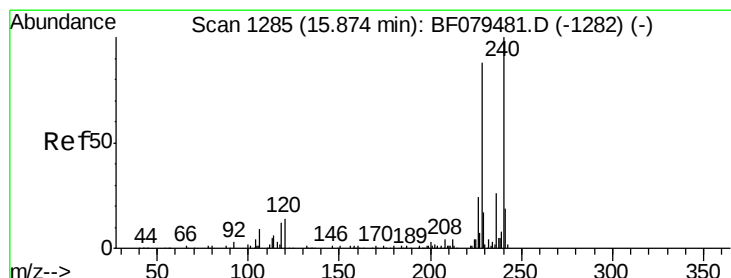
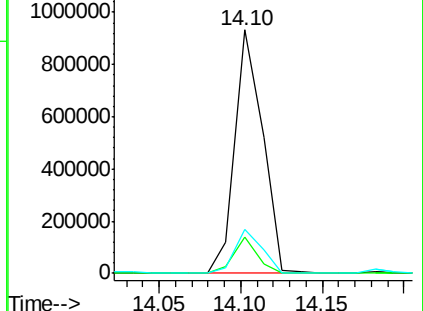
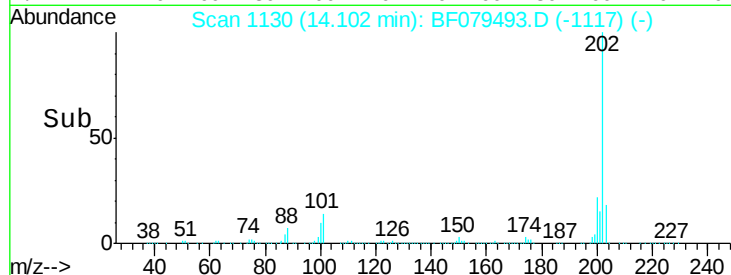
203 18.1 0.0 37.6



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: 15.90 min Scan# 1287

Delta R.T. 0.02 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

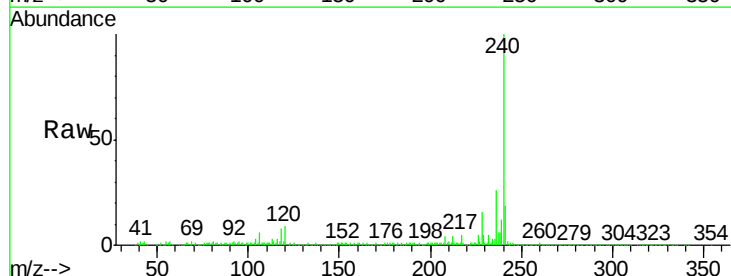
Tgt Ion:240 Resp: 415110

Ion Ratio Lower Upper

240 100

120 8.8 10.8 16.2#

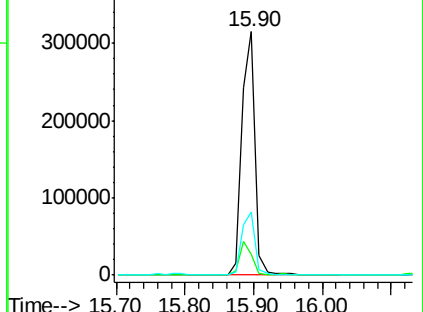
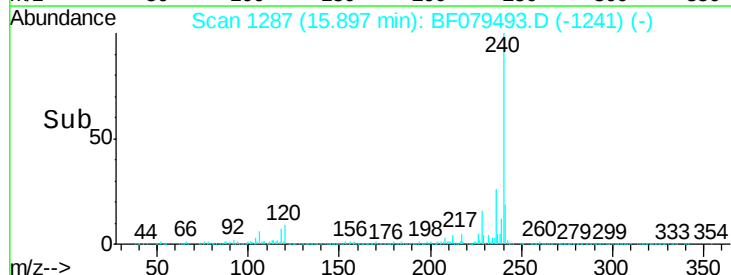
236 26.1 21.0 31.6

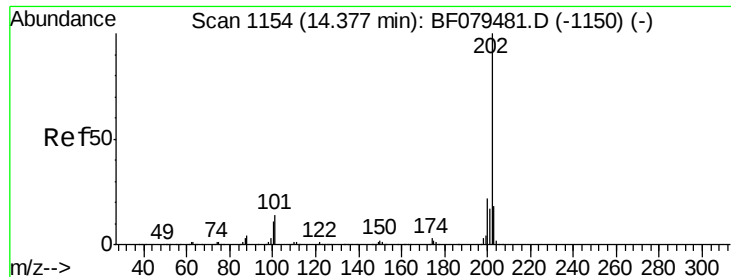


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 41.41 ng

RT: 14.39 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

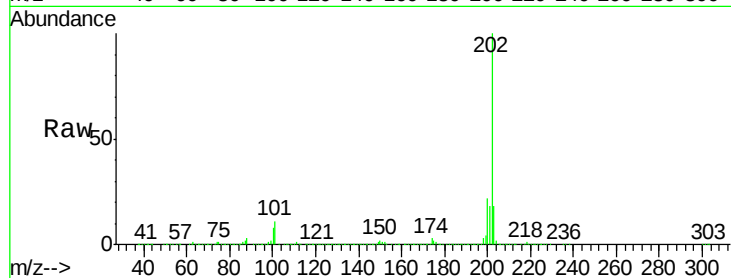
Tgt Ion:202 Resp: 1064866

Ion Ratio Lower Upper

202 100

200 22.2 17.5 26.3

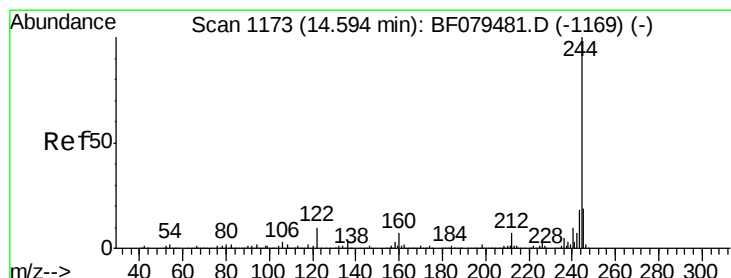
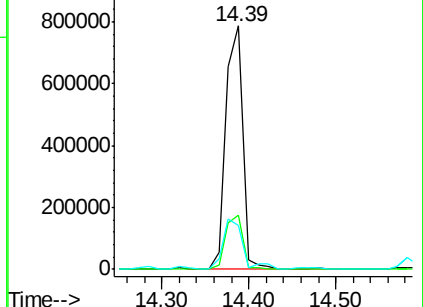
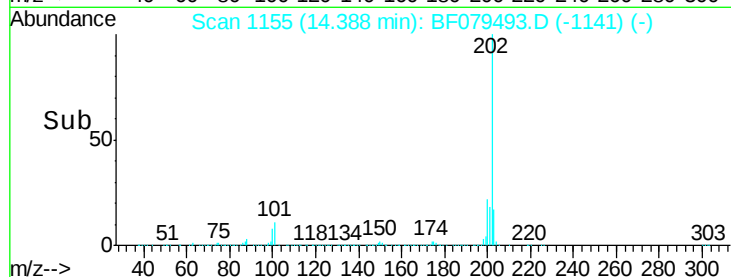
203 18.0 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 13.64 ng

RT: 14.59 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

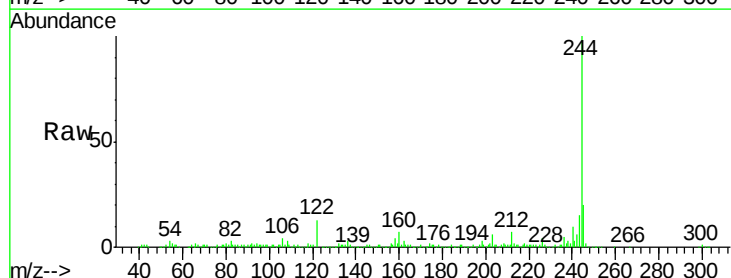
Tgt Ion:244 Resp: 241202

Ion Ratio Lower Upper

244 100

212 6.8 5.2 7.8

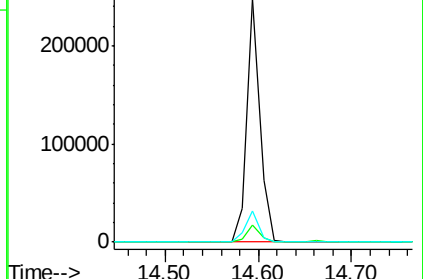
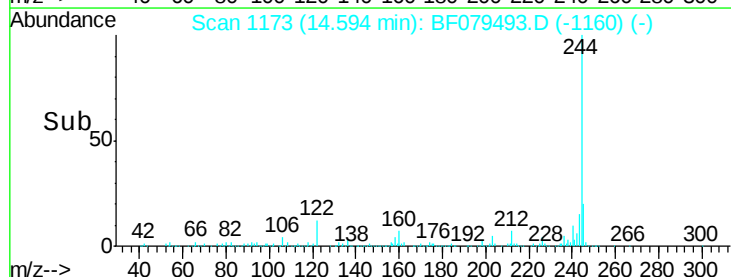
122 12.6 8.0 12.0#

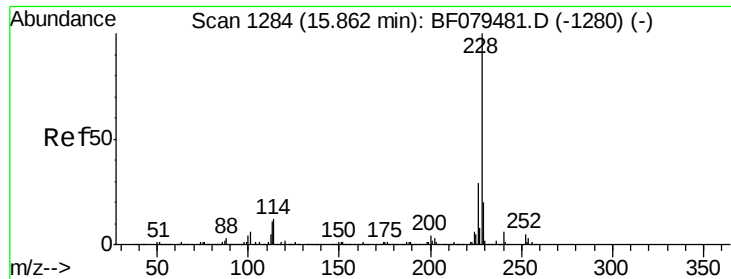


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 20.90 ng

RT: 15.89 min Scan# 1286

Delta R.T. 0.02 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

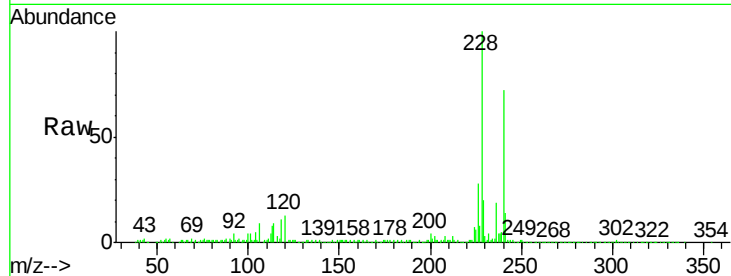
Tgt Ion:228 Resp: 499130

Ion Ratio Lower Upper

228 100

226 28.3 22.8 34.2

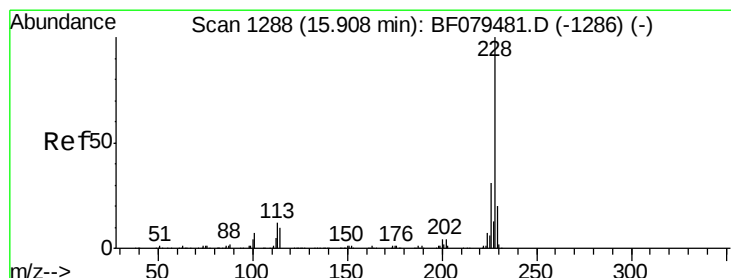
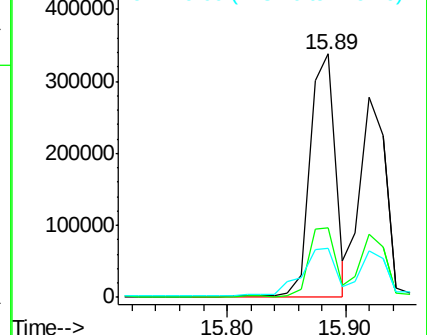
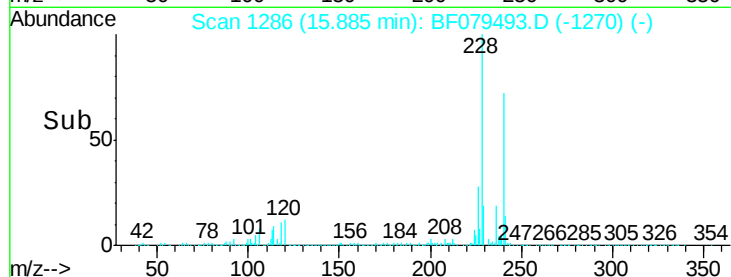
229 20.3 15.9 23.9



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: 18.20 ng

RT: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

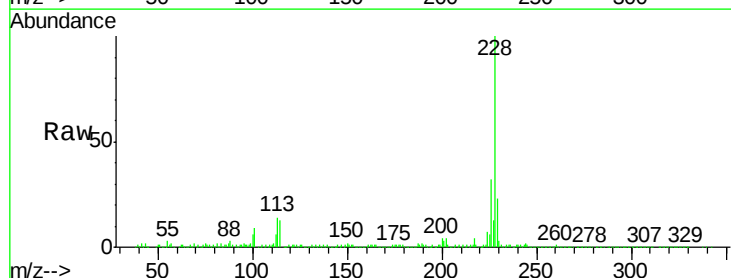
Tgt Ion:228 Resp: 413082

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.4

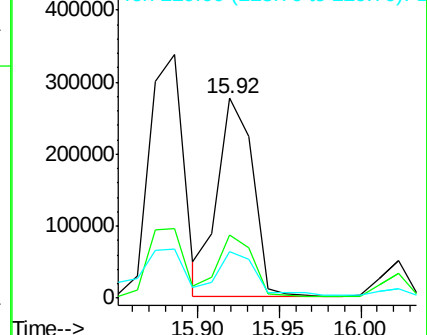
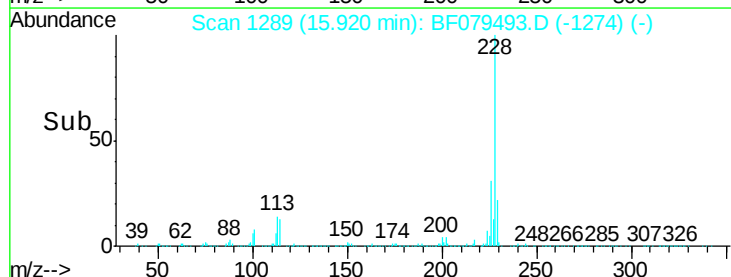
229 23.0 15.9 23.9

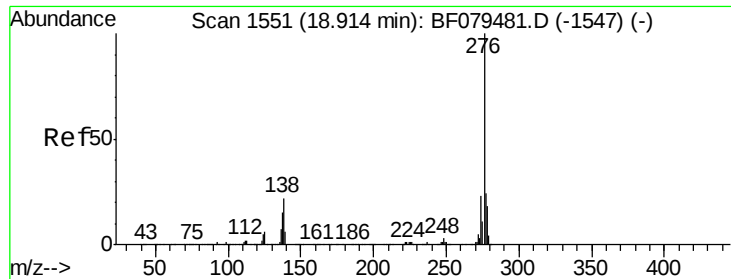


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

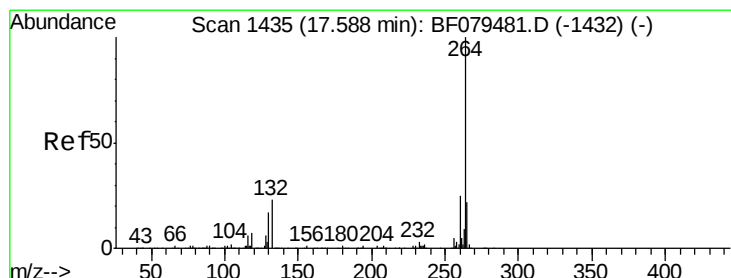
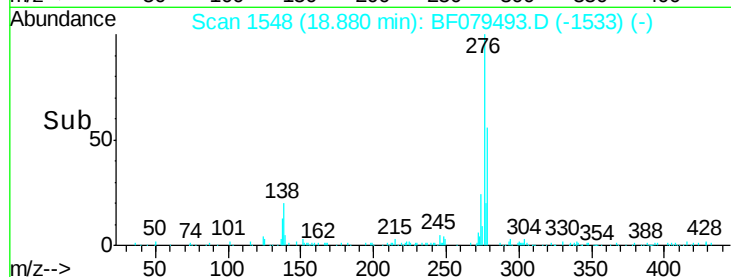
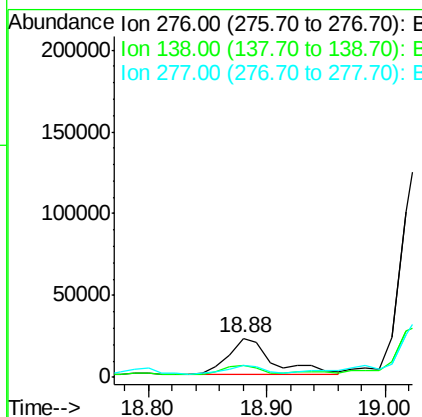
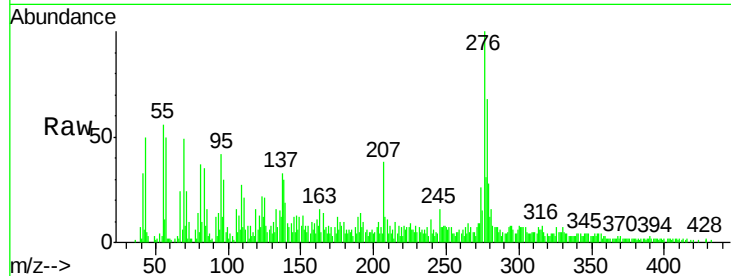




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.01 ng
 RT: 18.88 min Scan# 1548
 Delta R.T. -0.03 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

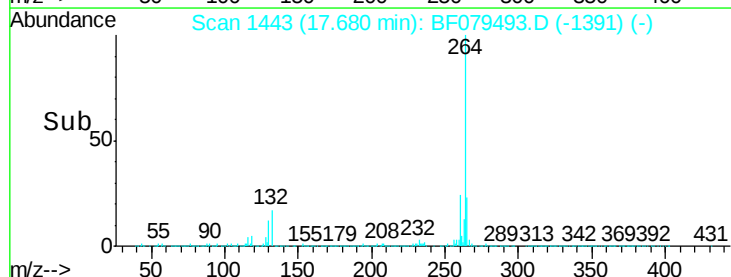
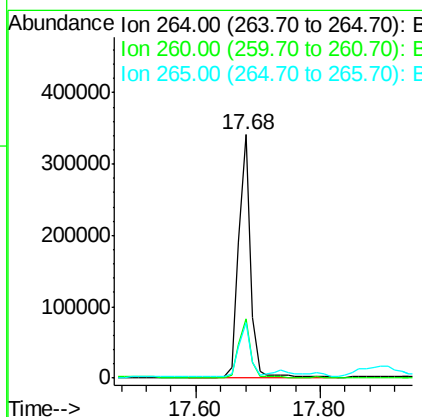
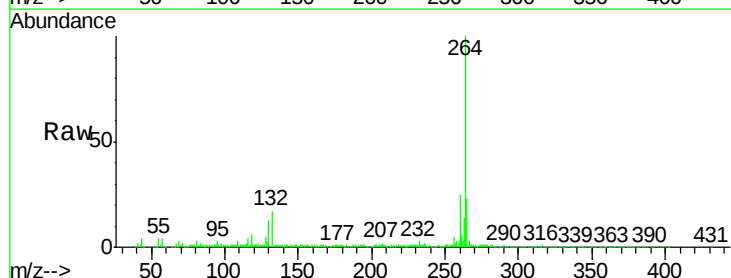
Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

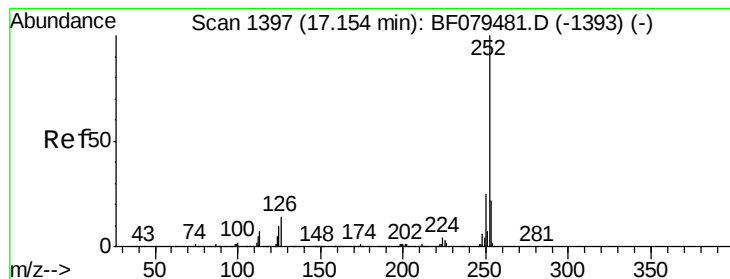
Tgt Ion:276 Resp: 58779
 Ion Ratio Lower Upper
 276 100
 138 22.4 21.4 32.2
 277 21.5 19.8 29.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.68 min Scan# 1443
 Delta R.T. 0.09 min
 Lab File: BF079493.D
 Acq: 26 May 2015 23:47

Tgt Ion:264 Resp: 453003
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.8 29.8
 265 22.9 17.8 26.6





#87

Benzo(b)fluoranthene

Concen: 27.90 ng

RT: 17.22 min Scan# 1403

Delta R.T. 0.07 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

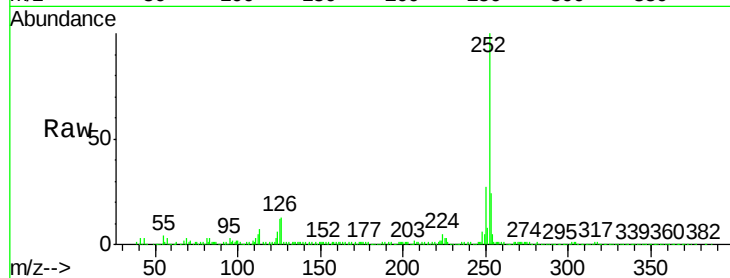
Tgt Ion:252 Resp: 720854

Ion Ratio Lower Upper

252 100

253 23.8 17.6 26.4

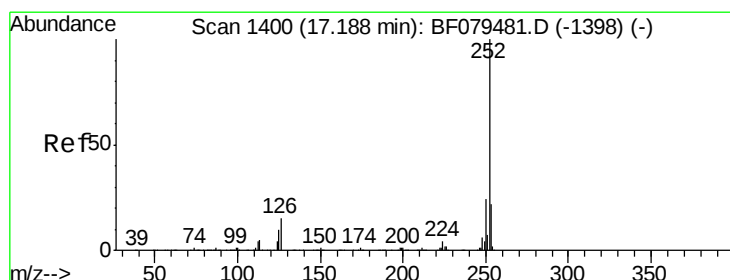
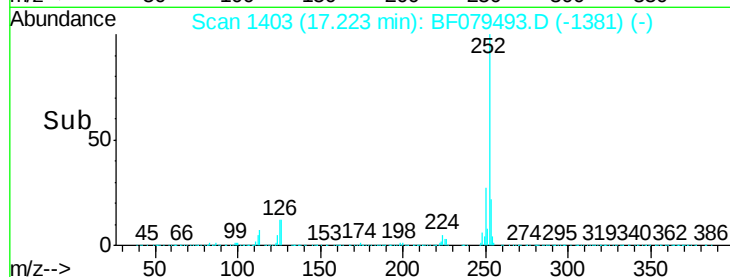
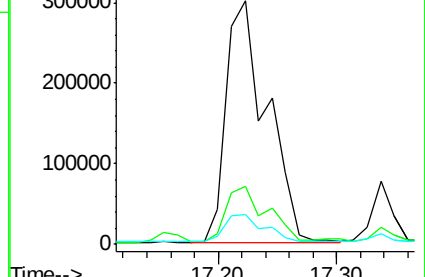
125 12.4 7.8 11.6#



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



#88

Benzo(k)fluoranthene

Concen: 31.20 ng

RT: 17.22 min Scan# 1403

Delta R.T. 0.03 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

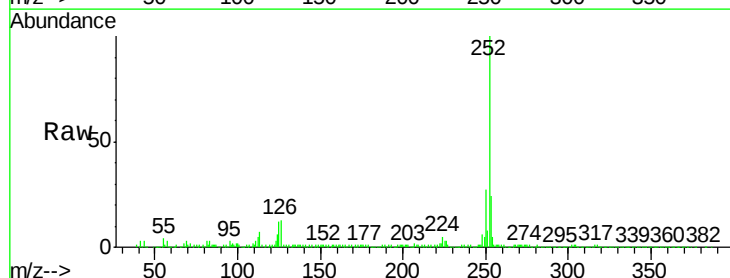
Tgt Ion:252 Resp: 720854

Ion Ratio Lower Upper

252 100

253 23.8 17.2 25.8

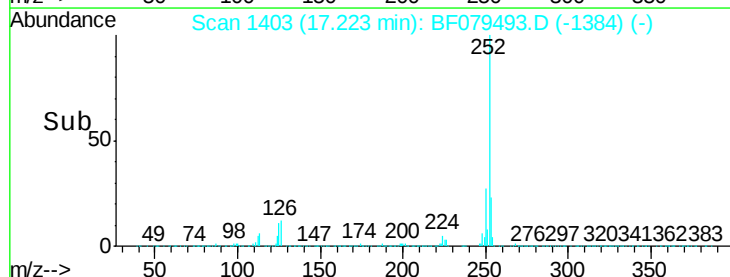
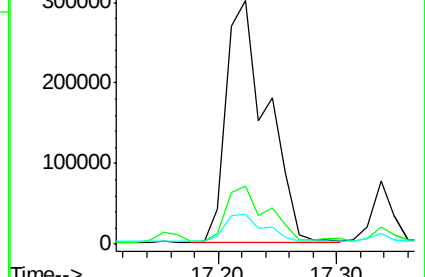
125 12.4 6.8 10.2#

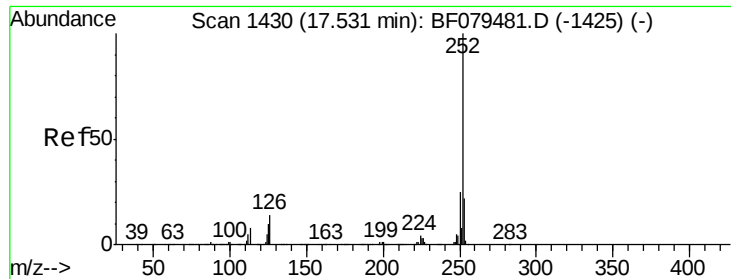


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 18.25 ng

RT: 17.61 min Scan# 1437

Delta R.T. 0.08 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

Instrument :

BNA_F

ClientSampleId :

SB-31D

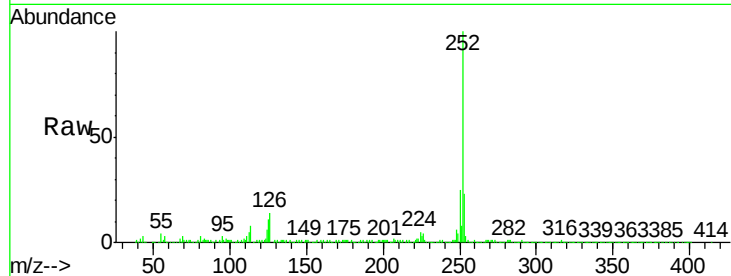
Tgt Ion:252 Resp: 439451

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

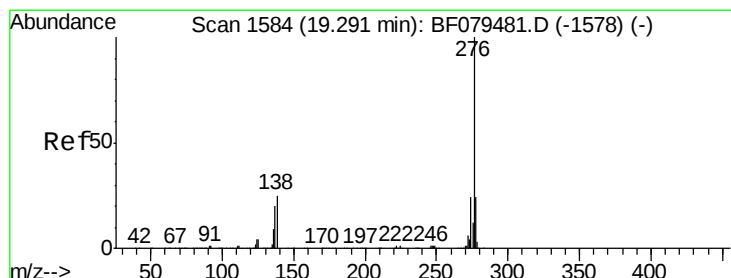
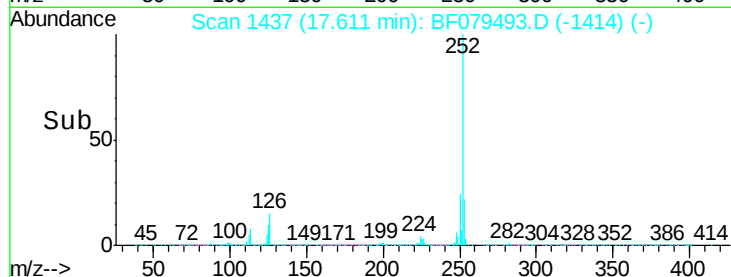
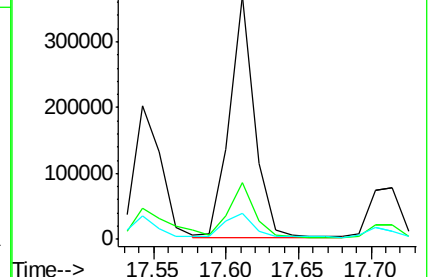
125 10.8 7.9 11.9



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: 9.27 ng

RT: 19.42 min Scan# 1595

Delta R.T. 0.13 min

Lab File: BF079493.D

Acq: 26 May 2015 23:47

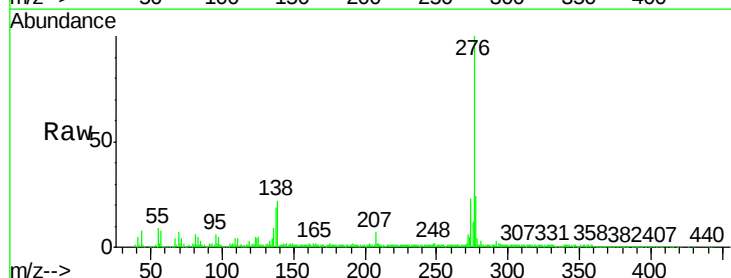
Tgt Ion:276 Resp: 263123

Ion Ratio Lower Upper

276 100

277 23.9 19.1 28.7

138 22.5 20.1 30.1



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

