

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051515\
 Data File : BF079293.D
 Acq On : 16 May 2015 4:50
 Operator : TP/IZ
 Sample : G2246-04DL 4X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12DL

Quant Time: May 16 06:15:44 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 16 04:02:20 2015
 Response via : Initial Calibration

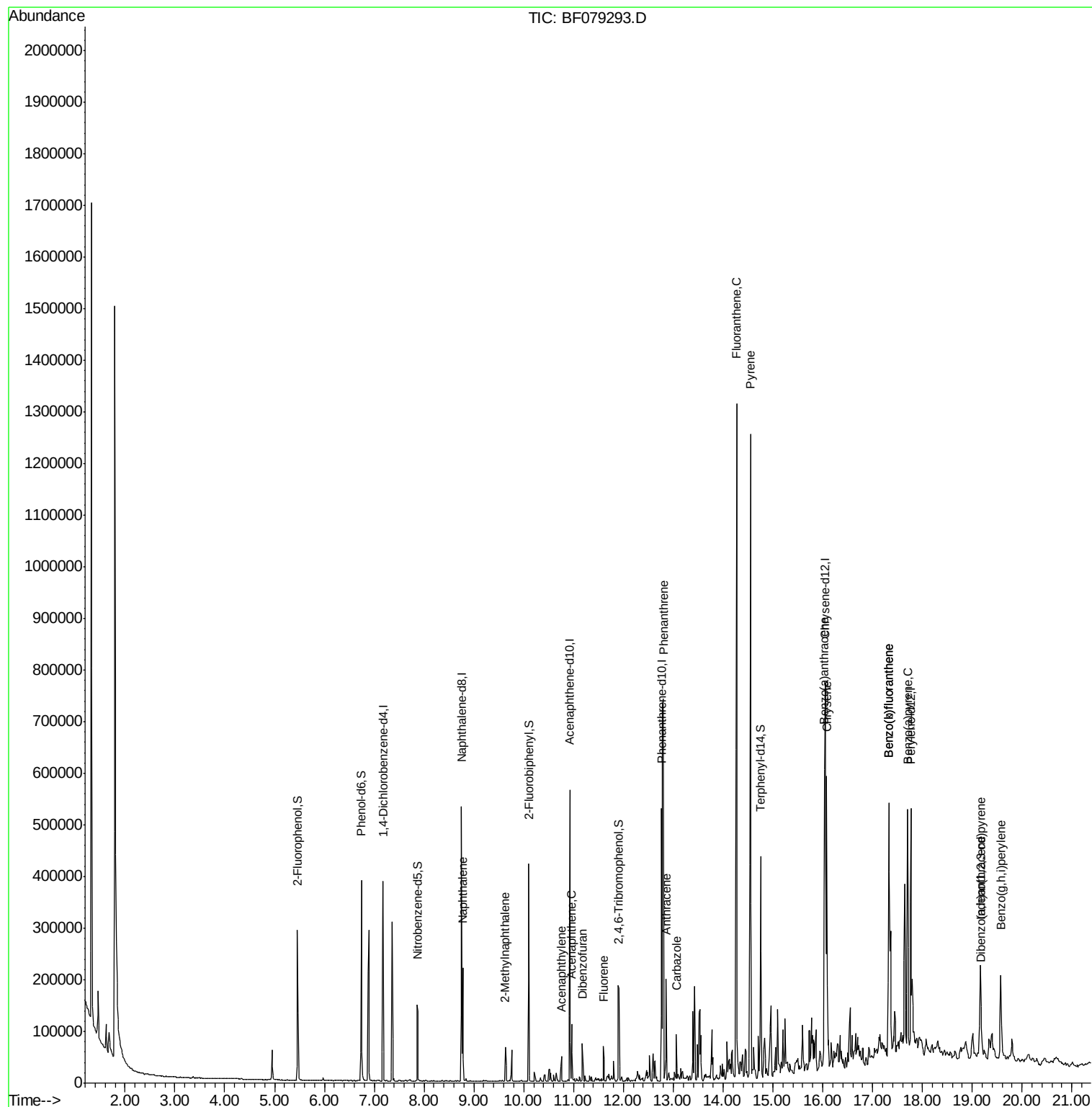
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.18	152	58170	20.00	ng	0.00
21) Naphthalene-d8	8.75	136	241493	20.00	ng	0.00
38) Acenaphthene-d10	10.93	164	112607	20.00	ng	0.00
63) Phenanthrene-d10	12.77	188	203121	20.00	ng	0.00
75) Chrysene-d12	16.05	240	201845	20.00	ng	-0.01
86) Perylene-d12	17.77	264	222310	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	90647	26.82	ng	0.00
7) Phenol-d6	6.74	99	130096	29.12	ng	0.00
23) Nitrobenzene-d5	7.86	82	68837	16.38	ng	-0.01
41) 2,4,6-Tribromophenol	11.91	330	29728	24.40	ng	0.00
44) 2-Fluorobiphenyl	10.10	172	151543	18.75	ng	0.00
78) Terphenyl-d14	14.75	244	157597	18.69	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.78	128	94993	8.26	ng	99
37) 2-Methylnaphthalene	9.63	142	22234	2.79	ng	98
48) Acenaphthylene	10.75	152	24614	2.15	ng	99
51) Acenaphthene	10.96	154	30269	4.43	ng	97
54) Dibenzofuran	11.18	168	31809	3.22	ng	94
57) Fluorene	11.60	166	24048	2.97	ng	98
70) Phenanthrene	12.80	178	437423	38.49	ng	100
71) Anthracene	12.86	178	79454	7.13	ng	99
72) Carbazole	13.06	167	36566	3.44	ng	99
74) Fluoranthene	14.27	202	611197	51.62	ng	94
77) Pyrene	14.55	202	545874	46.93	ng	100
80) Benzo(a)anthracene	16.03	228	262490	23.75	ng	94
82) Chrysene	16.08	228	232914	21.91	ng	98
85) Indeno(1,2,3-cd)pyrene	19.17	276	143693	10.61	ng	95
87) Benzo(b)fluoranthene	17.33	252	392285	32.24	ng	99
88) Benzo(k)fluoranthene	17.33	252	392285	33.30	ng	# 96
89) Benzo(a)pyrene	17.70	252	218447	19.50	ng	98
90) Dibenzo(a,h)anthracene	19.18	278	32927	2.77	ng	94
91) Benzo(g,h,i)perylene	19.58	276	137826	11.55	ng	100

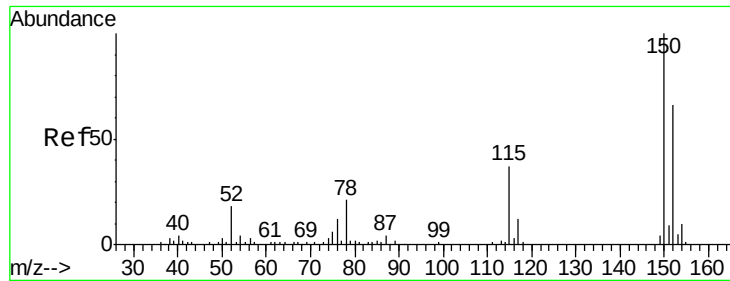
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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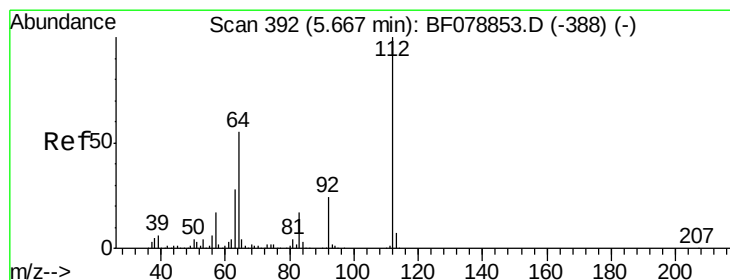
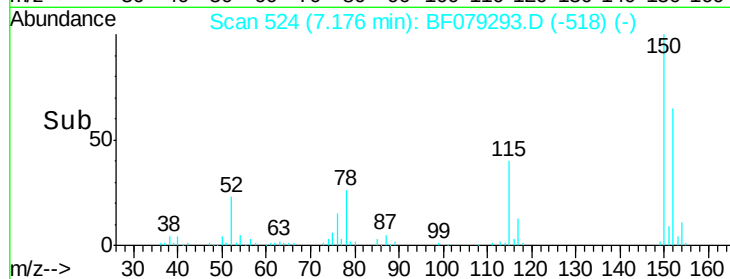
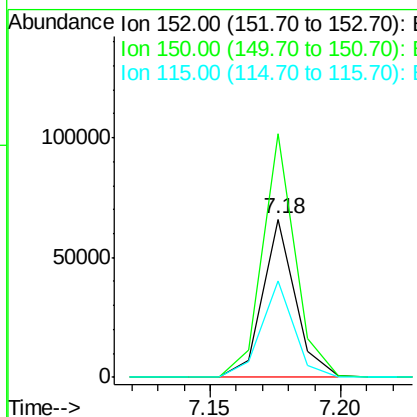
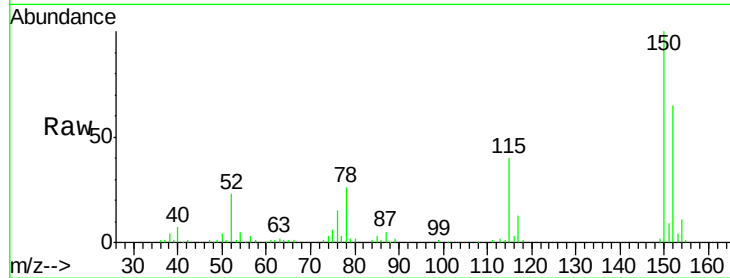




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.18 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

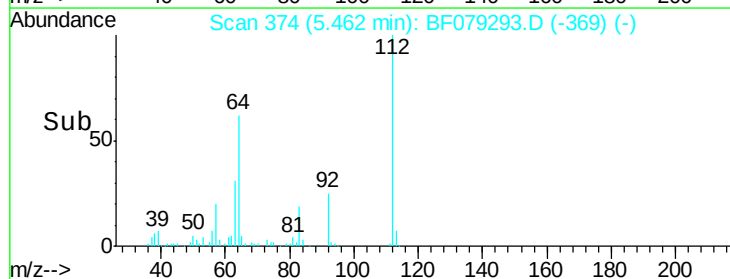
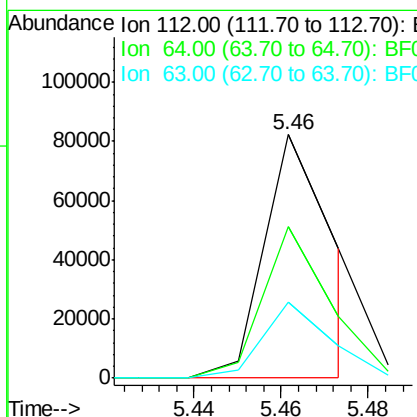
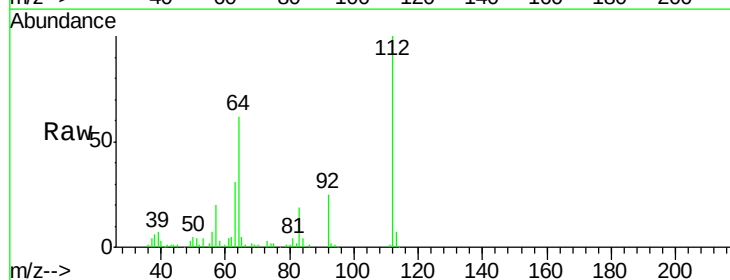
Instrument :
 BNA_F
 ClientSampleId :
 SB-12DL

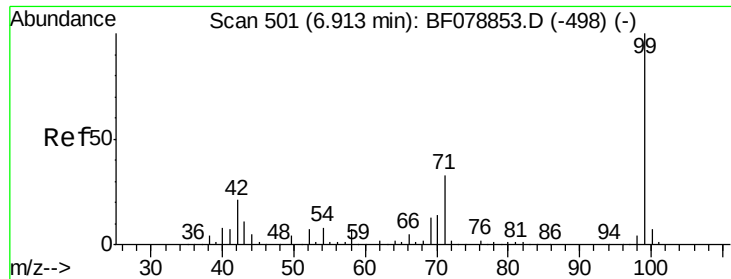
Tgt Ion:152 Resp: 58170
 Ion Ratio Lower Upper
 152 100
 150 153.9 123.8 185.8
 115 61.0 49.4 74.0



#5
 2-Fluorophenol
 Concen: 26.82 ng
 RT: 5.46 min Scan# 374
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Tgt Ion:112 Resp: 90647
 Ion Ratio Lower Upper
 112 100
 64 62.1 44.2 66.2
 63 31.3 22.7 34.1





#7

Phenol-d6

Concen: 29.12 ng

RT: 6.74 min Scan# 486

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampleId :

SB-12DL

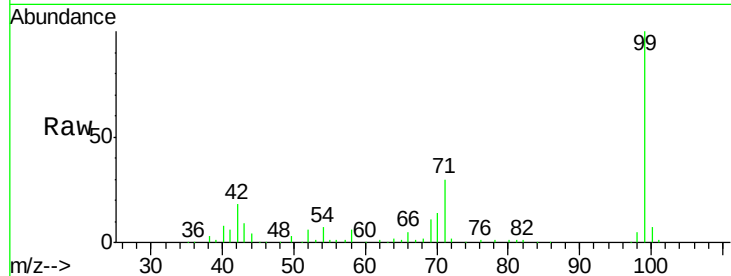
Tgt Ion: 99 Resp: 130096

Ion Ratio Lower Upper

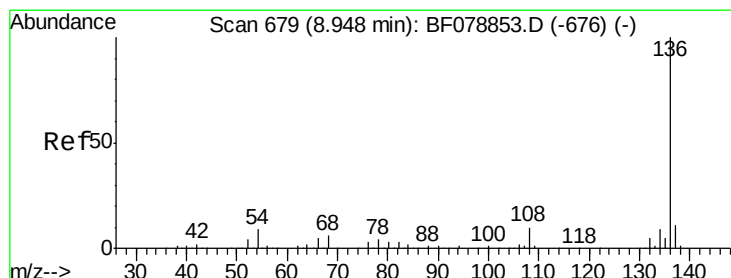
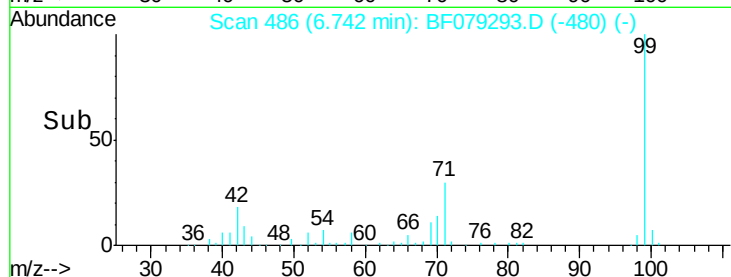
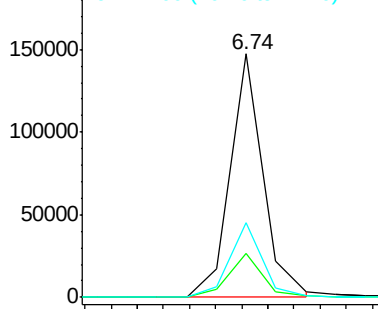
99 100

42 18.3 17.1 25.7

71 30.5 26.3 39.5



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: 8.75 min Scan# 662

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Tgt Ion: 136 Resp: 241493

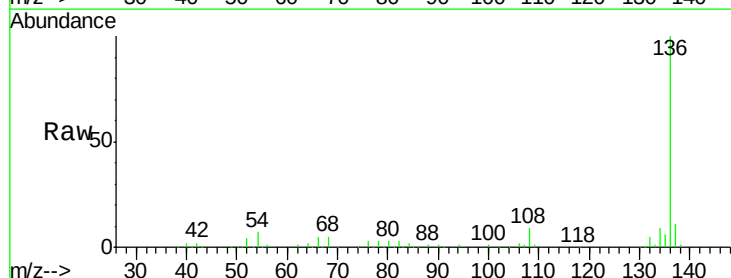
Ion Ratio Lower Upper

136 100

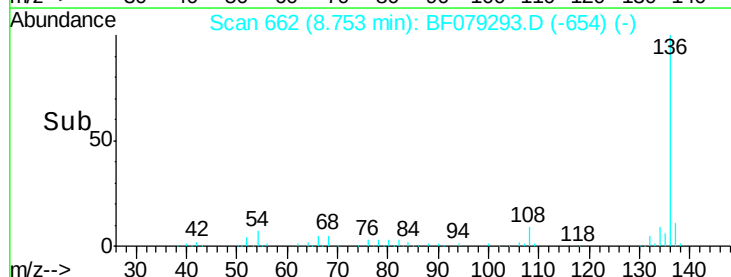
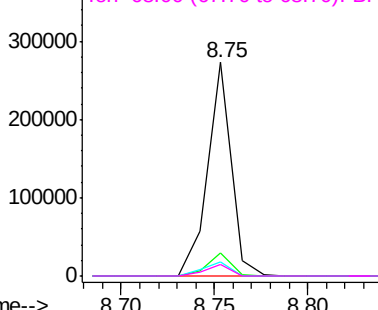
137 10.7 8.8 13.2

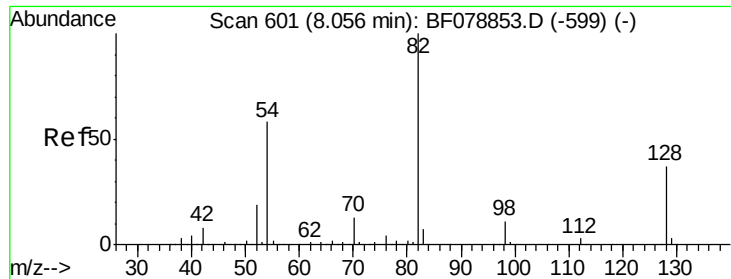
54 6.8 6.9 10.3#

68 5.2 4.9 7.3



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

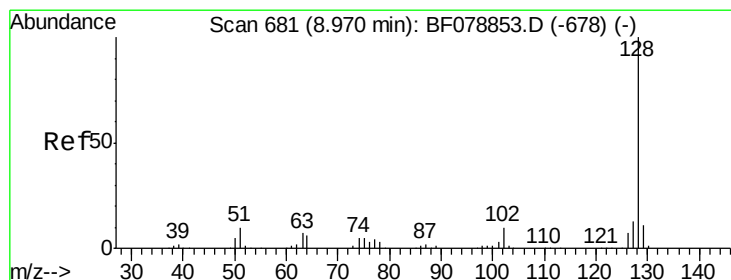
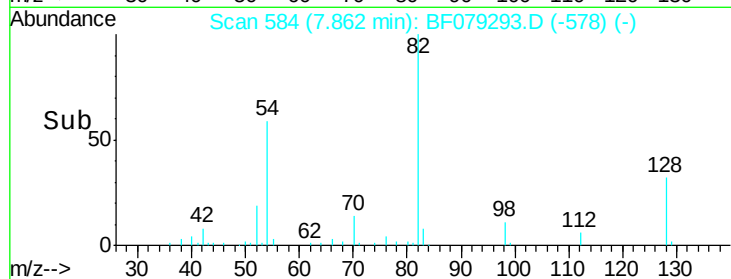
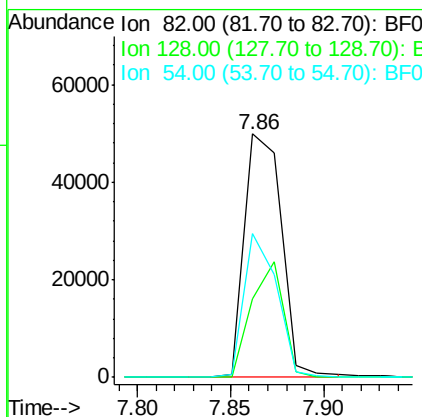
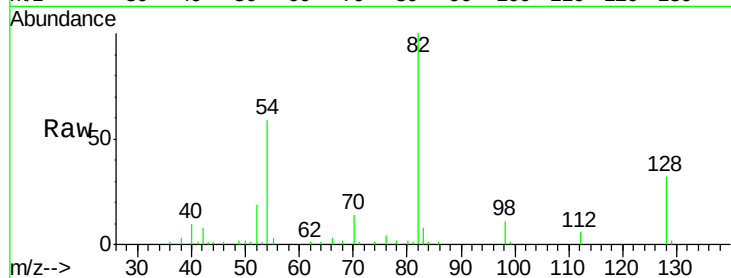




#23
 Nitrobenzene-d5
 Concen: 16.38 ng
 RT: 7.86 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

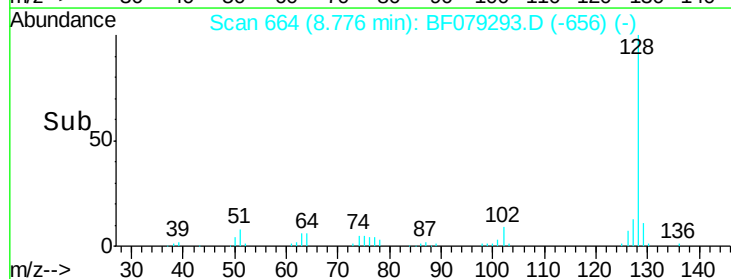
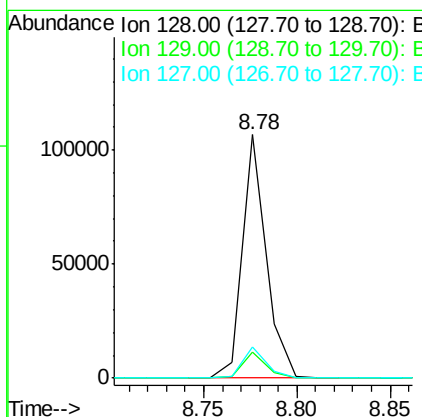
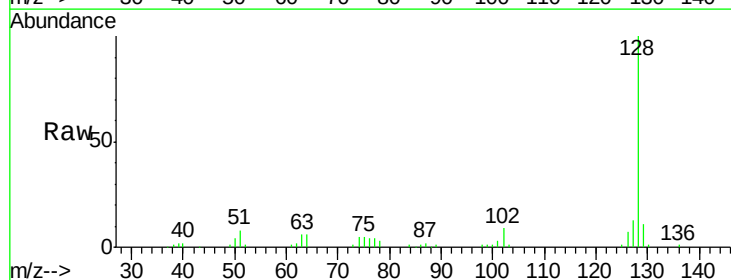
Instrument :
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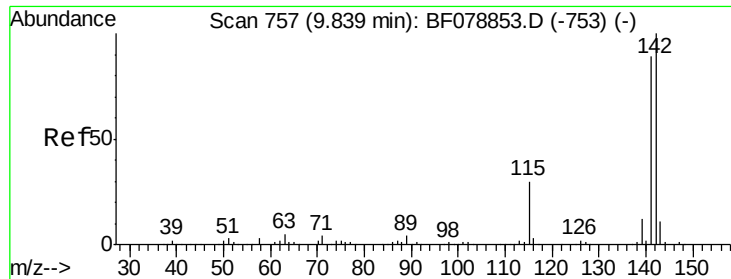
Tgt Ion: 82 Resp: 68837
 Ion Ratio Lower Upper
 82 100
 128 32.4 29.7 44.5
 54 59.3 46.2 69.4



#31
 Naphthalene
 Concen: 8.26 ng
 RT: 8.78 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Tgt Ion: 128 Resp: 94993
 Ion Ratio Lower Upper
 128 100
 129 10.7 9.2 13.8
 127 12.6 10.3 15.5

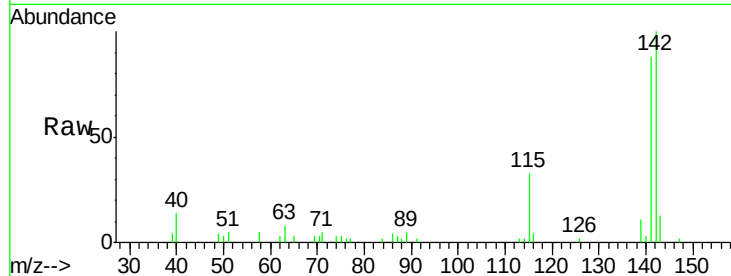




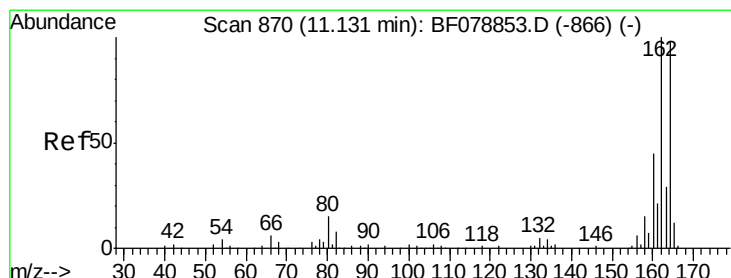
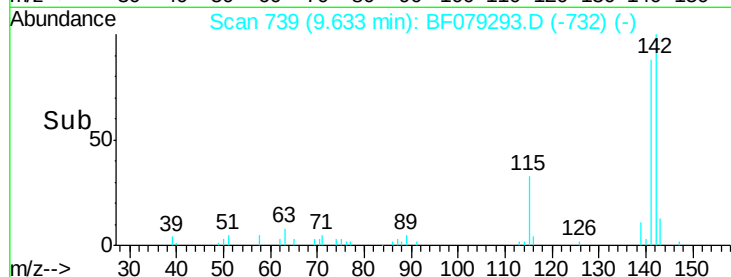
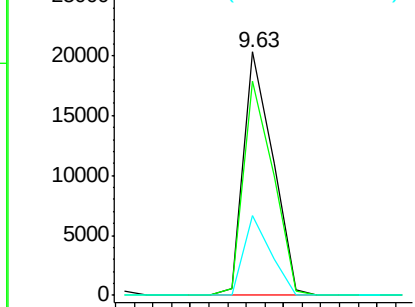
#37
 2-Methylnaphthalene
 Concen: 2.79 ng
 RT: 9.63 min Scan# 739
 Delta R.T. -0.01 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Instrument :
 BNA_F
 ClientSampleID :
 SB-12DL

Tgt Ion:142 Resp: 22234
 Ion Ratio Lower Upper
 142 100
 141 88.2 71.6 107.4
 115 32.5 24.2 36.4

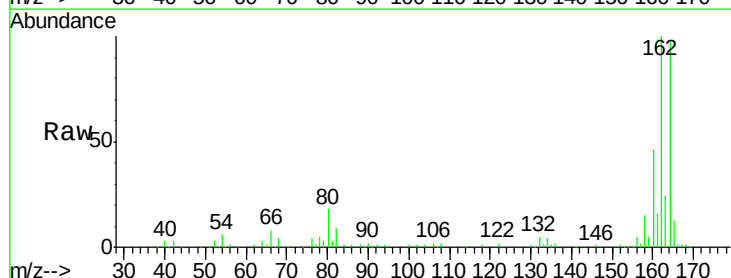


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

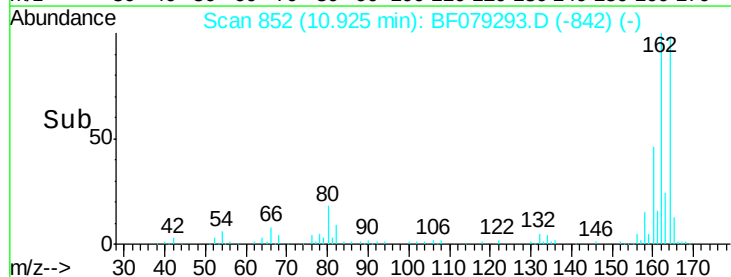
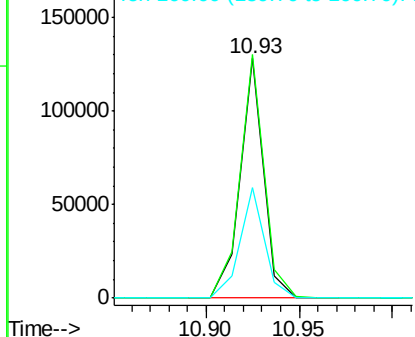


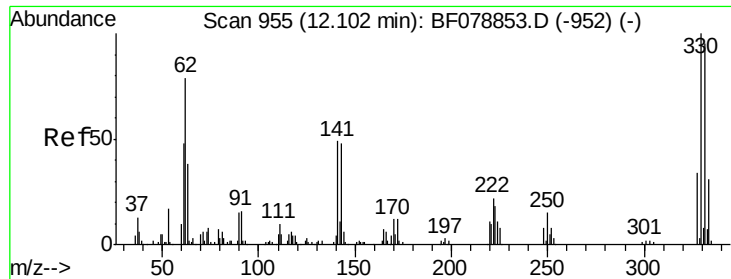
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.93 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Tgt Ion:164 Resp: 112607
 Ion Ratio Lower Upper
 164 100
 162 101.6 81.4 122.0
 160 46.3 36.6 54.8



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

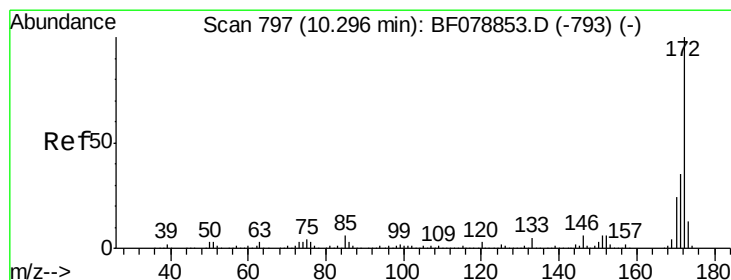
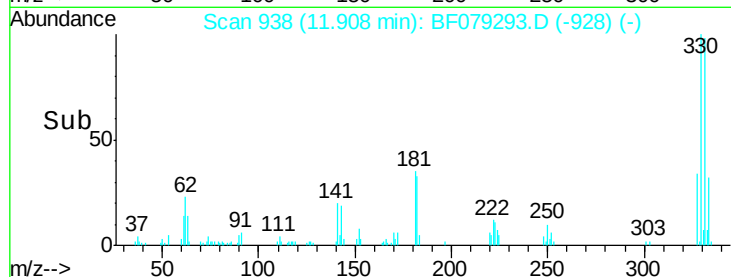
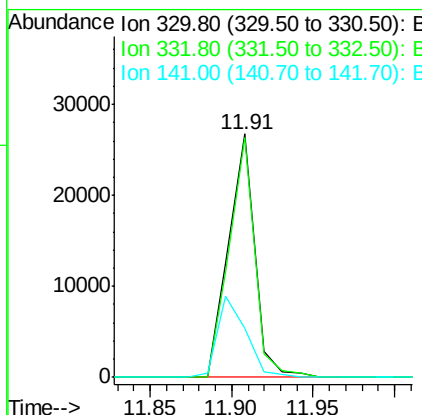
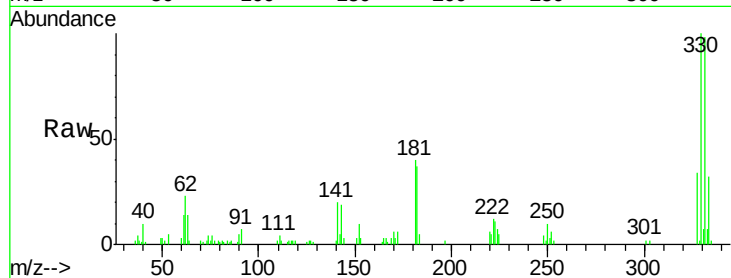




#41
 2,4,6-Tribromophenol
 Concen: 24.40 ng
 RT: 11.91 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

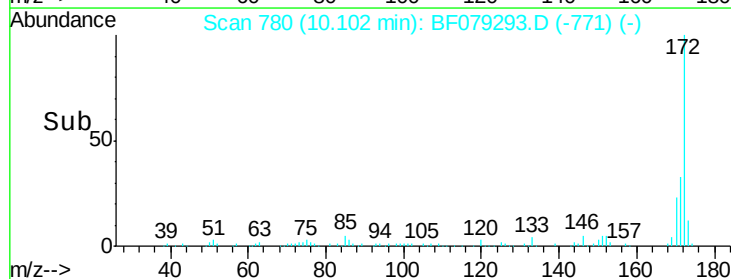
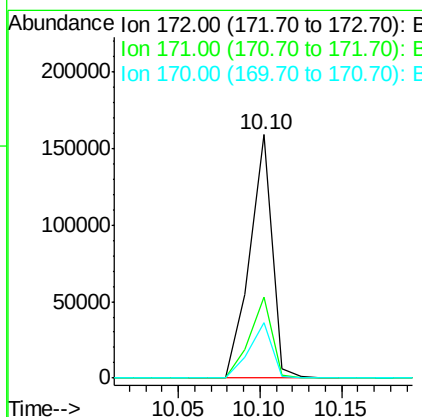
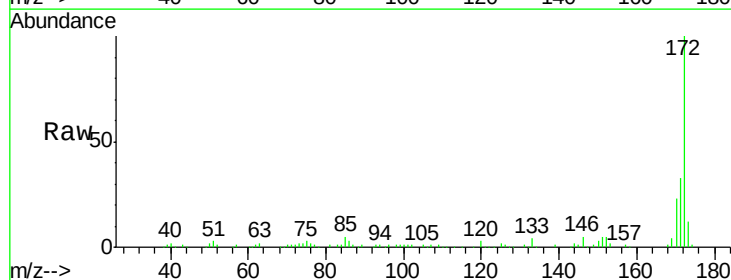
Instrument :
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 ClientSampleId :
 SB-12DL

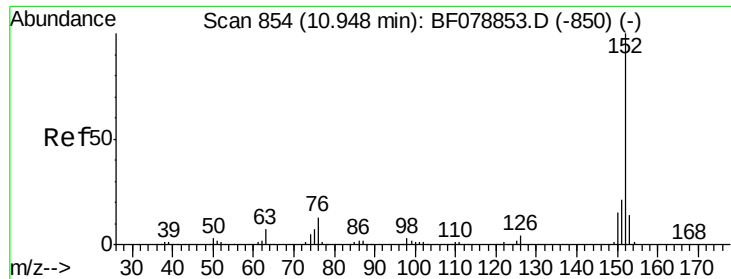
Tgt Ion:330 Resp: 29728
 Ion Ratio Lower Upper
 330 100
 332 96.1 76.9 115.3
 141 36.0 27.8 41.8



#44
 2-Fluorobiphenyl
 Concen: 18.75 ng
 RT: 10.10 min Scan# 780
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Tgt Ion:172 Resp: 151543
 Ion Ratio Lower Upper
 172 100
 171 33.4 28.3 42.5
 170 22.6 19.4 29.2





#48

Acenaphthylene

Concen: 2.15 ng

RT: 10.75 min Scan# 837

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampled :

SB-12DL

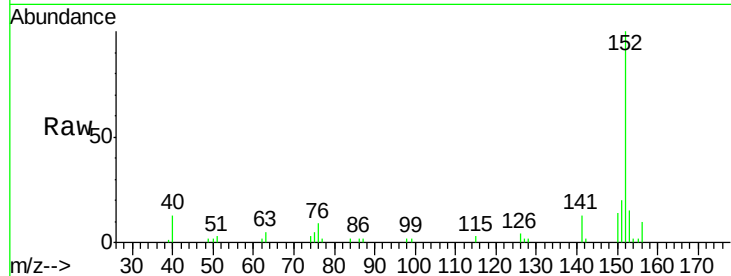
Tgt Ion:152 Resp: 24614

Ion Ratio Lower Upper

152 100

151 20.4 16.6 24.8

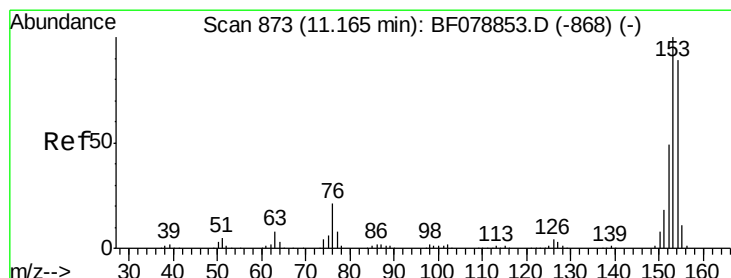
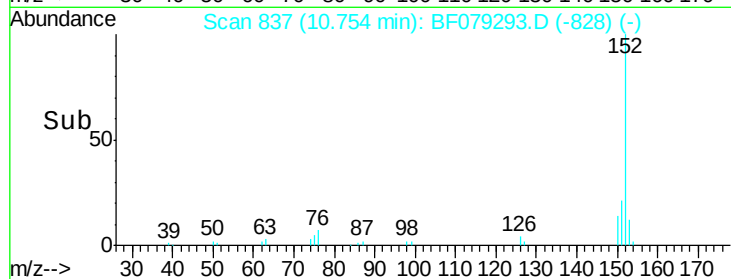
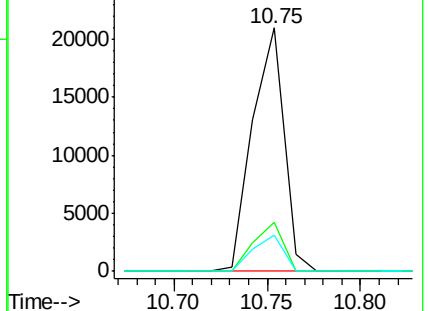
153 14.8 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 4.43 ng

RT: 10.96 min Scan# 855

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

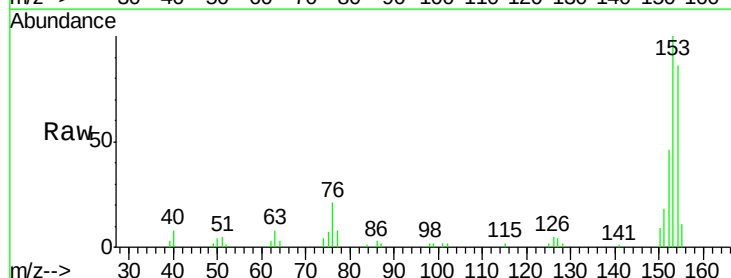
Tgt Ion:154 Resp: 30269

Ion Ratio Lower Upper

154 100

153 116.0 90.2 135.2

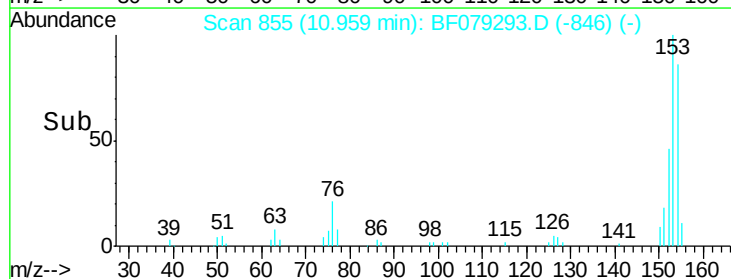
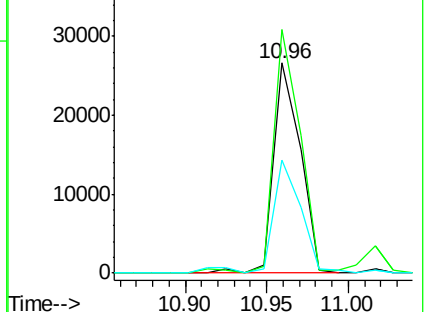
152 53.6 43.8 65.8

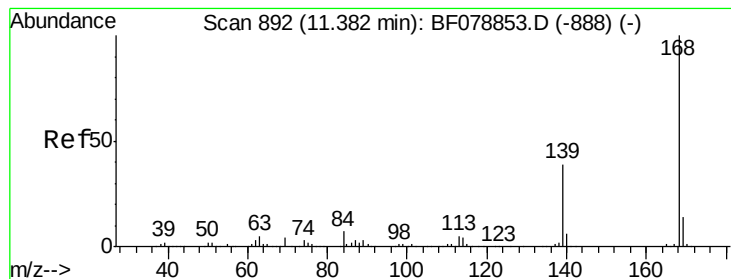


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 3.22 ng

RT: 11.18 min Scan# 874

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

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SB-12DL

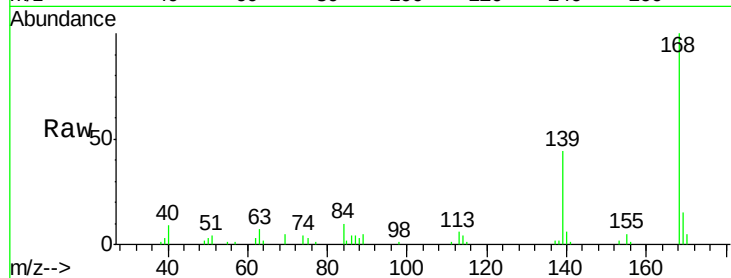
Tgt Ion:168 Resp: 31809

Ion Ratio Lower Upper

168 100

139 43.5 31.5 47.3

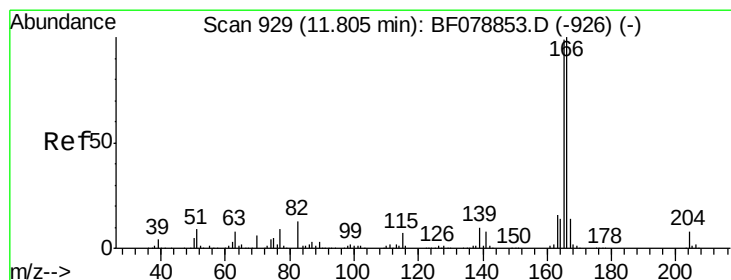
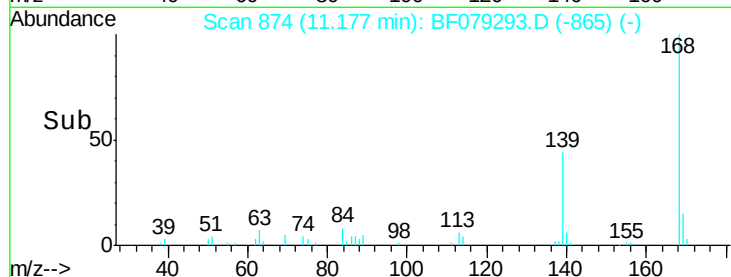
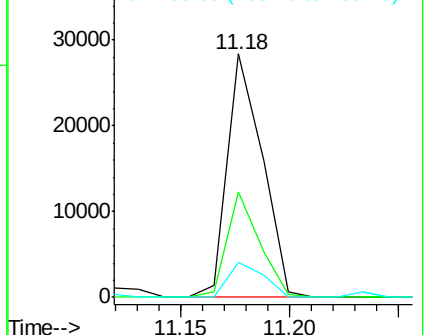
169 14.6 11.0 16.4



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



#57

Fluorene

Concen: 2.97 ng

RT: 11.60 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

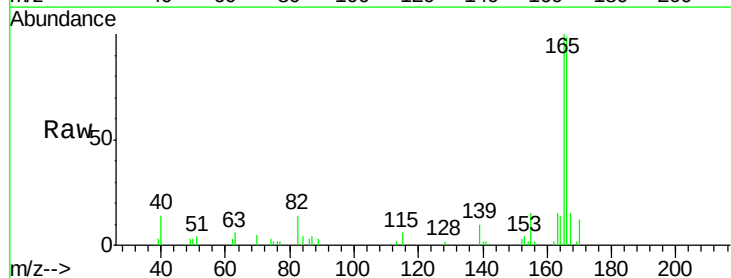
Tgt Ion:166 Resp: 24048

Ion Ratio Lower Upper

166 100

165 100.7 79.5 119.3

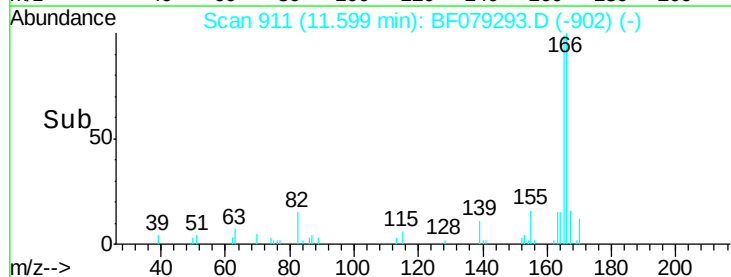
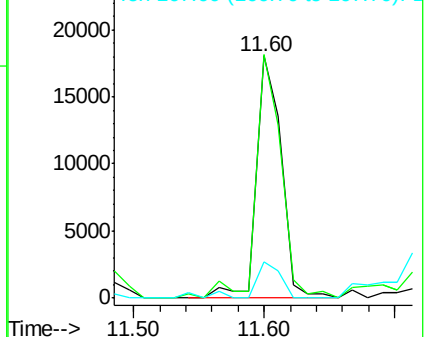
167 15.1 11.0 16.6

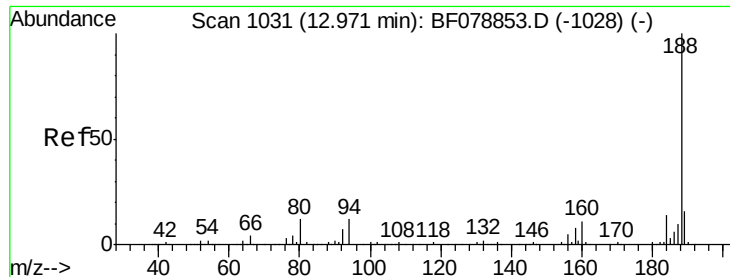


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

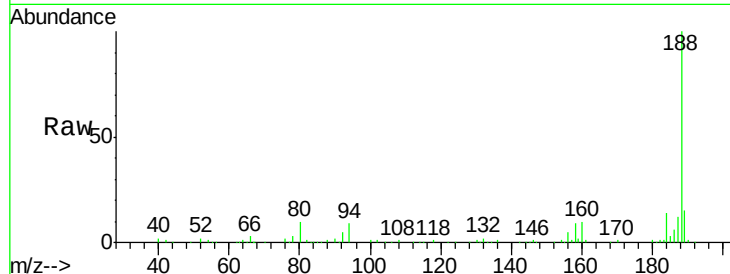




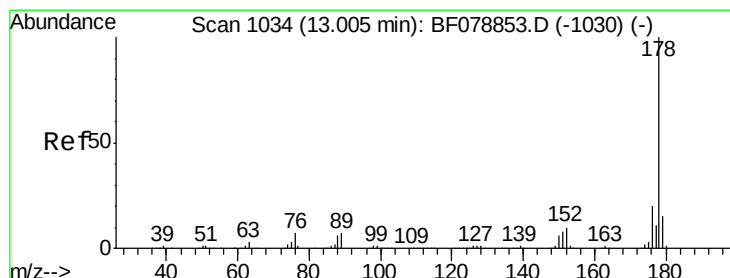
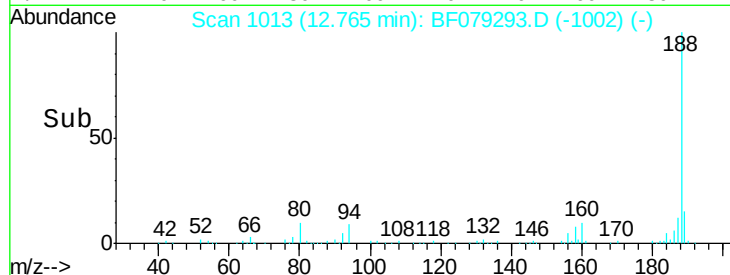
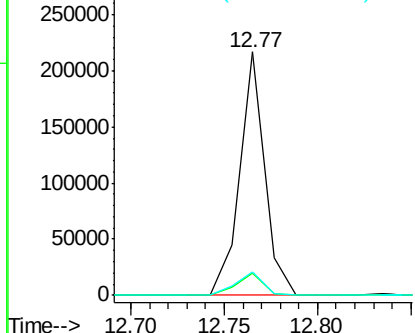
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.77 min Scan# 1013
Delta R.T. 0.00 min
Lab File: BF079293.D
Acq: 16 May 2015 4:50

Instrument :
BNA_F
ClientSampleId :
SB-12DL

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	9.4	14.0#
80	9.9	9.8	14.6

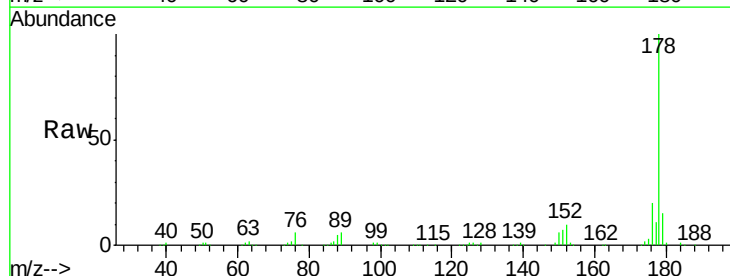


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

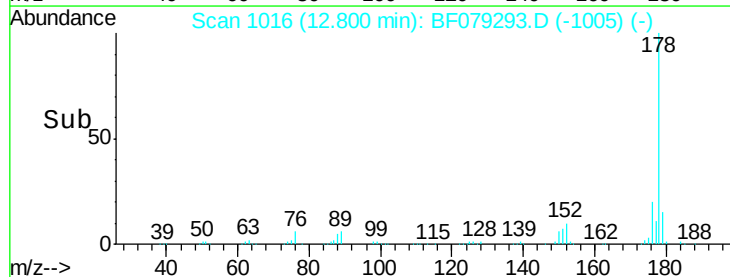
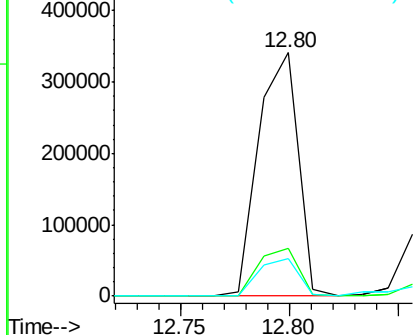


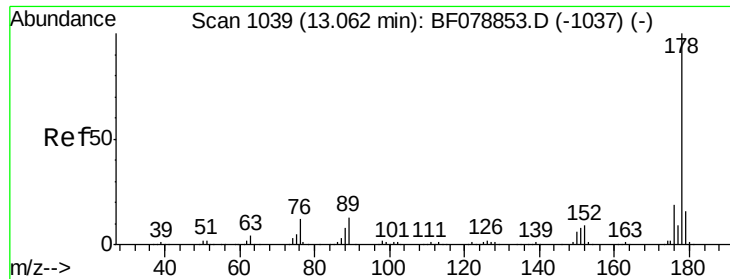
#70
Phenanthrene
Concen: 38.49 ng
RT: 12.80 min Scan# 1016
Delta R.T. 0.00 min
Lab File: BF079293.D
Acq: 16 May 2015 4:50

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.2	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

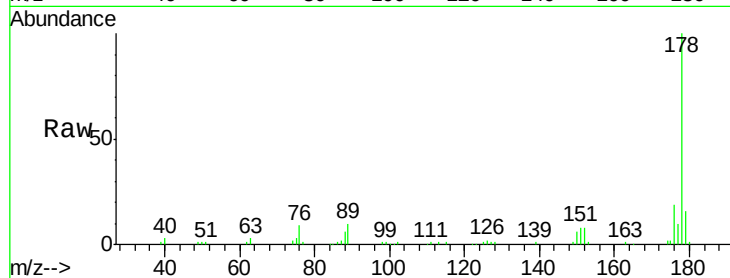




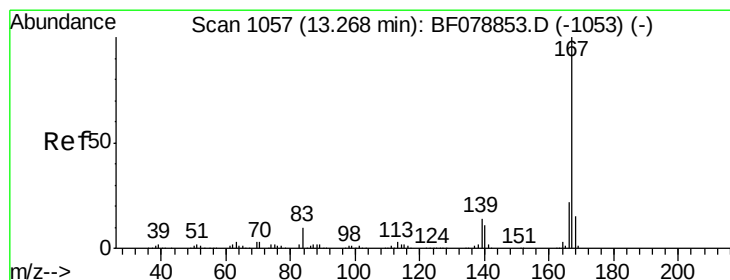
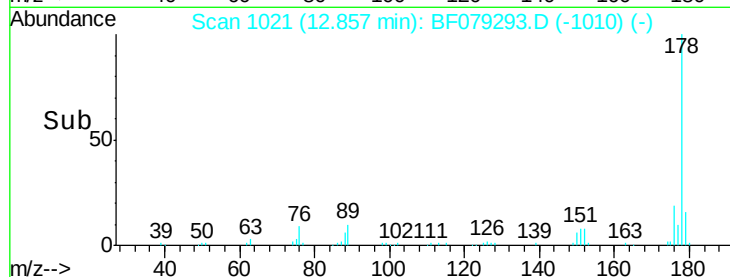
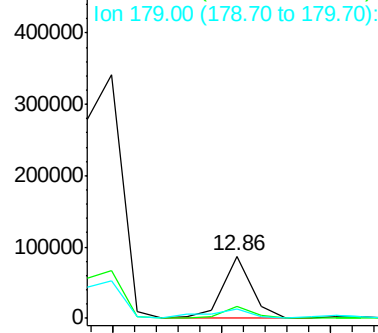
#71
 Anthracene
 Concen: 7.13 ng
 RT: 12.86 min Scan# 1021
 Delta R.T. 0.00 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Instrument :
 BNA_F
 ClientSampleId :
 SB-12DL

Tgt Ion:178 Resp: 79454
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.3 22.9
 179 15.5 12.6 19.0

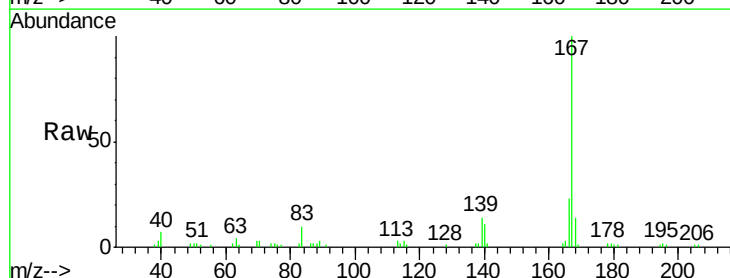


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

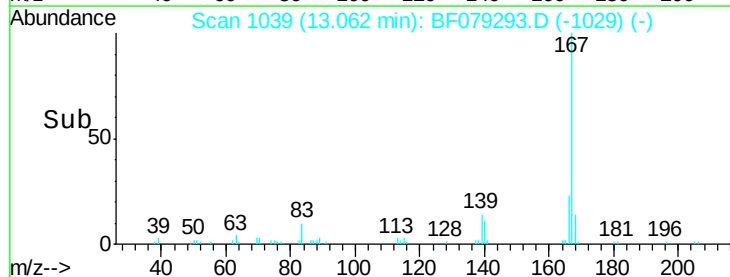
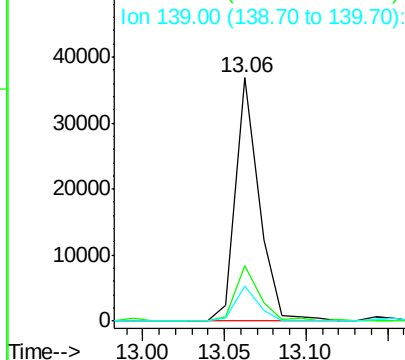


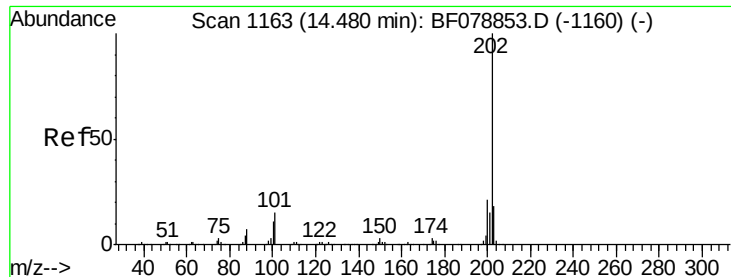
#72
 Carbazole
 Concen: 3.44 ng
 RT: 13.06 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: BF079293.D
 Acq: 16 May 2015 4:50

Tgt Ion:167 Resp: 36566
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.5 26.3
 139 14.2 11.0 16.4



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: 51.62 ng

RT: 14.27 min Scan# 1145

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

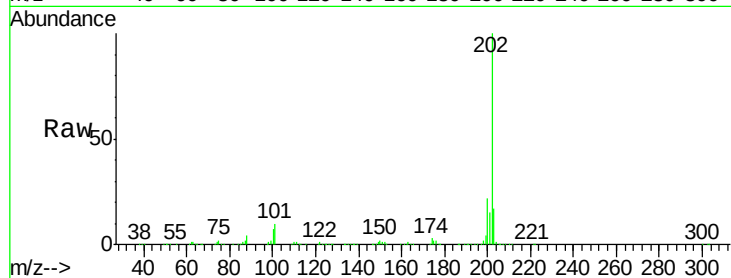
Instrument :

BNA_F

ClientSampleId :

SB-12DL

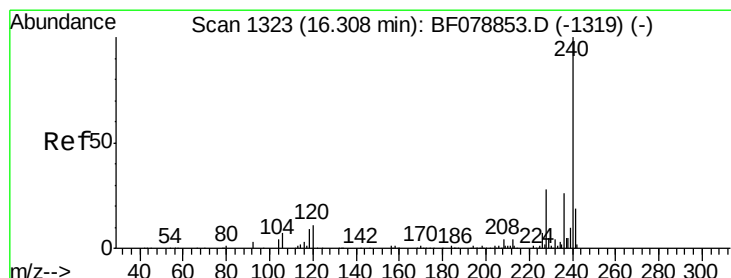
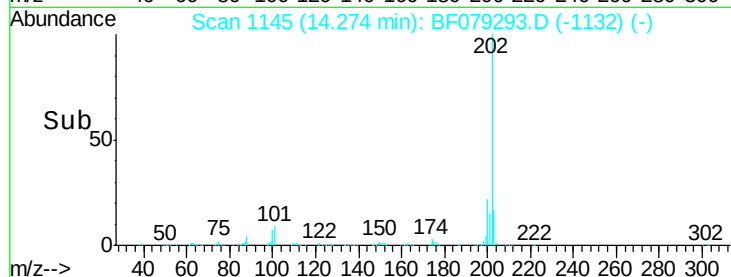
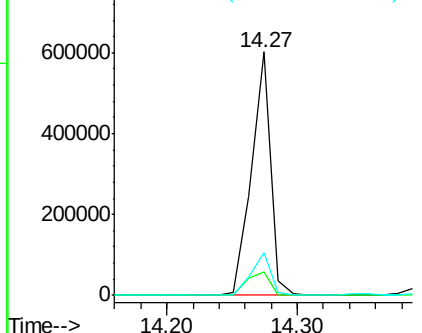
Tgt Ion:	202	Resp:	611197
Ion Ratio	Lower	Upper	
202	100		
101	9.6	0.0	34.7
203	17.5	0.0	37.9



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

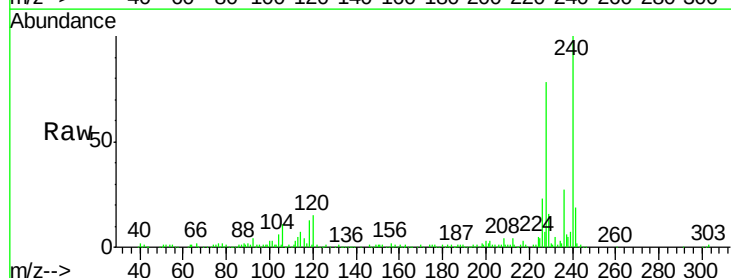
RT: 16.05 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

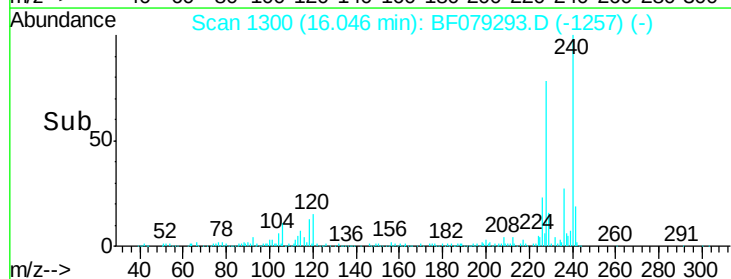
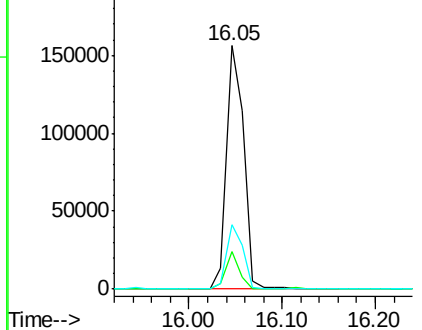
Tgt Ion:	240	Resp:	201845
Ion Ratio	Lower	Upper	
240	100		
120	15.3	8.6	12.8#
236	26.7	21.0	31.6

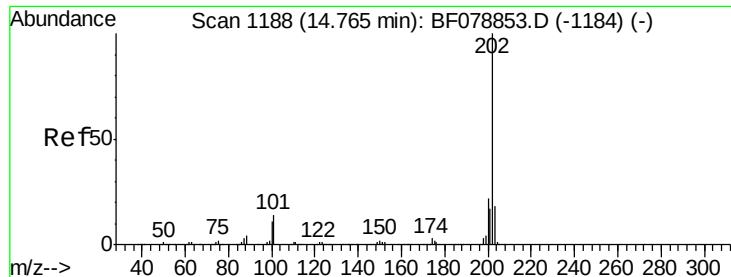


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 46.93 ng

RT: 14.55 min Scan# 1169

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampleId :

SB-12DL

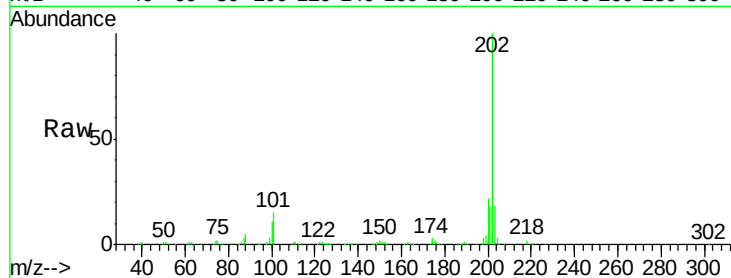
Tgt Ion:202 Resp: 545874

Ion Ratio Lower Upper

202 100

200 21.6 17.5 26.3

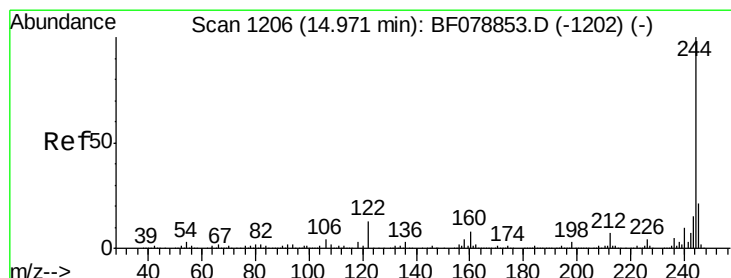
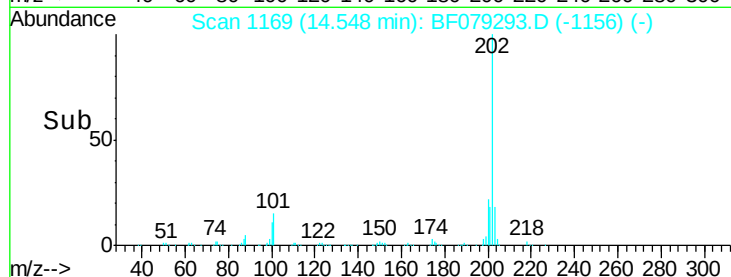
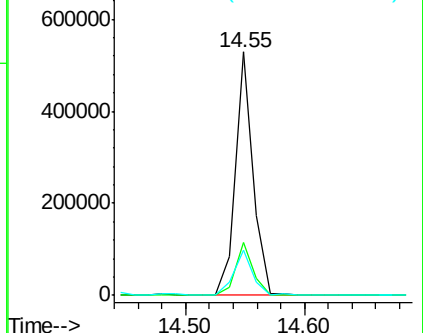
203 18.4 14.7 22.1



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: 18.69 ng

RT: 14.75 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

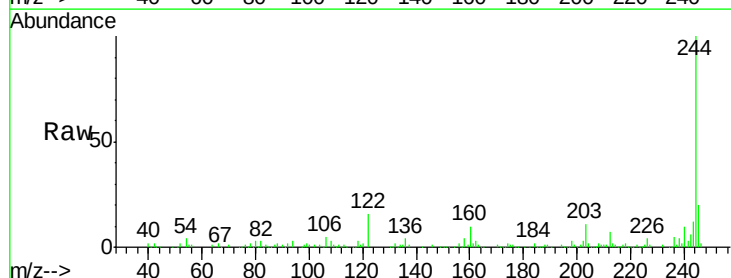
Tgt Ion:244 Resp: 157597

Ion Ratio Lower Upper

244 100

212 7.2 5.6 8.4

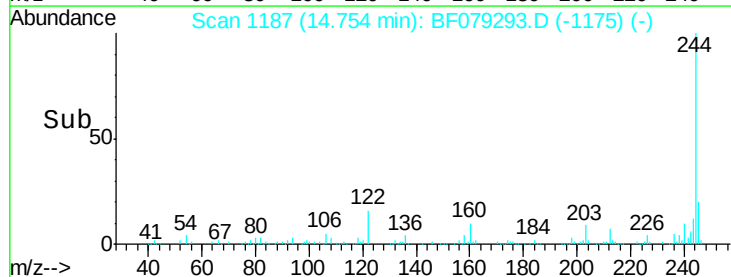
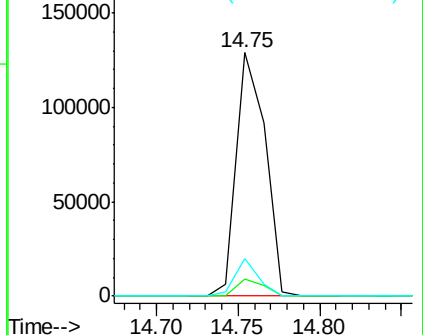
122 15.5 10.5 15.7

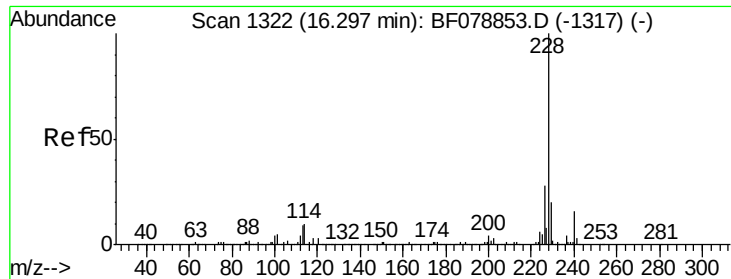


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.75 ng

RT: 16.03 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampled :

SB-12DL

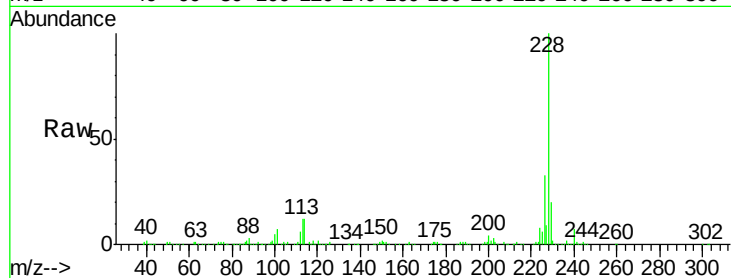
Tgt Ion:228 Resp: 262490

Ion Ratio Lower Upper

228 100

226 33.0 22.3 33.5

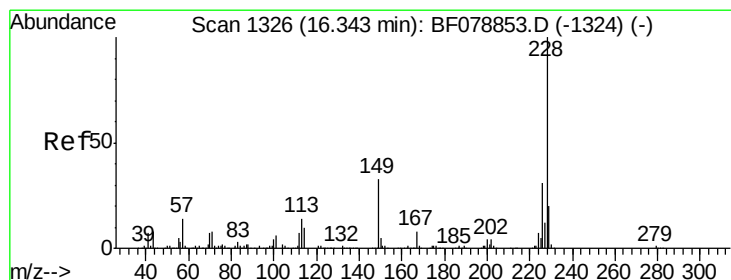
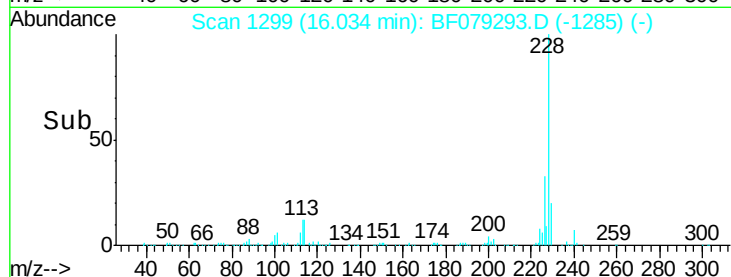
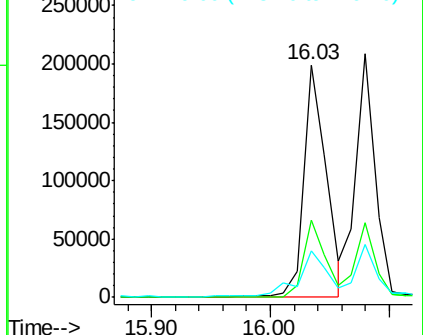
229 20.1 16.1 24.1



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



#82

Chrysene

Concen: 21.91 ng

RT: 16.08 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

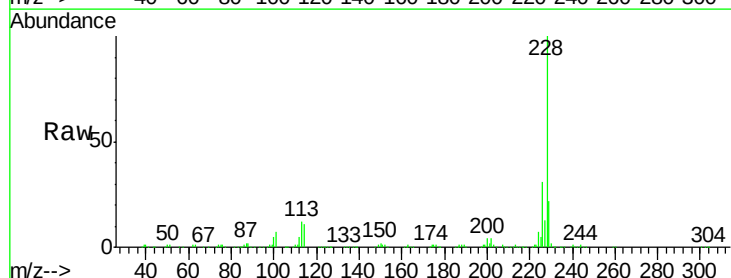
Tgt Ion:228 Resp: 232914

Ion Ratio Lower Upper

228 100

226 30.6 24.8 37.2

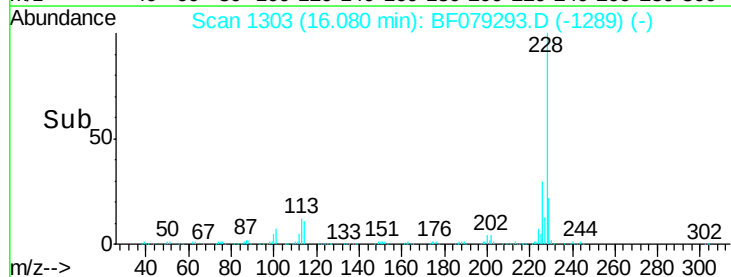
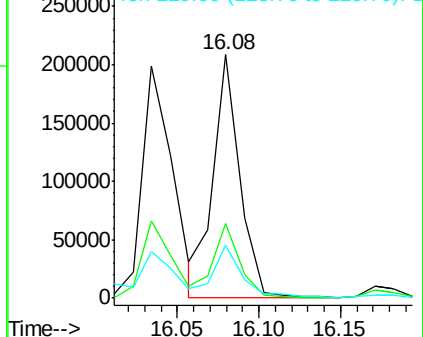
229 22.0 16.1 24.1

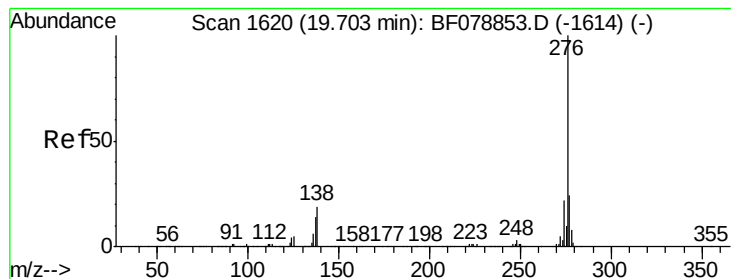


Abundance Ion 228.00 (227.70 to 228.70): E

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: 10.61 ng

RT: 19.17 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampleId :

SB-12DL

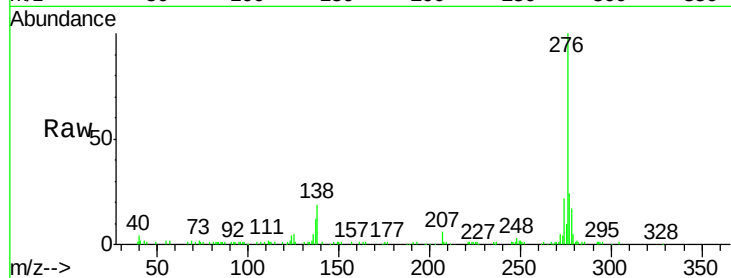
Tgt Ion:276 Resp: 143693

Ion Ratio Lower Upper

276 100

138 21.4 21.1 31.7

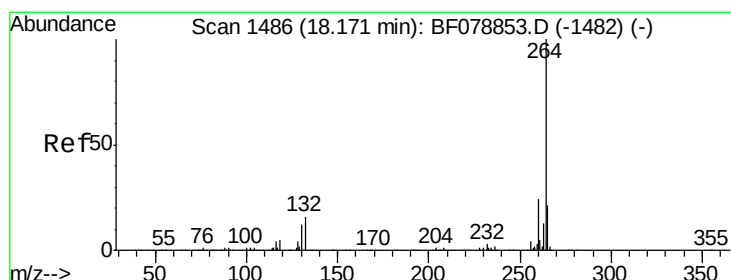
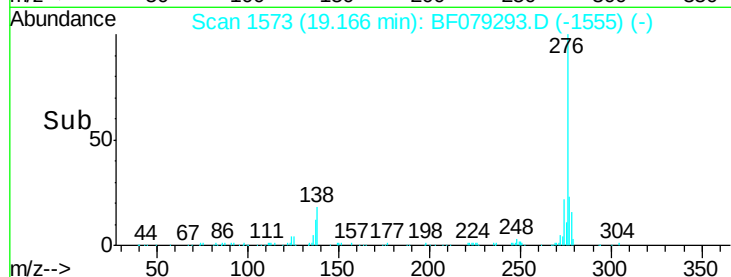
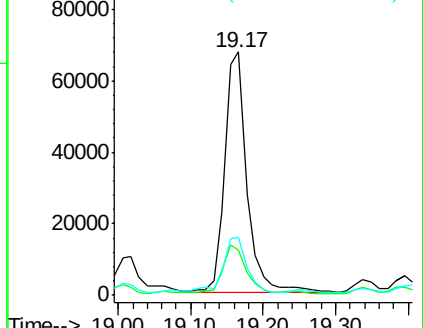
277 24.9 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.77 min Scan# 1451

Delta R.T. 0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

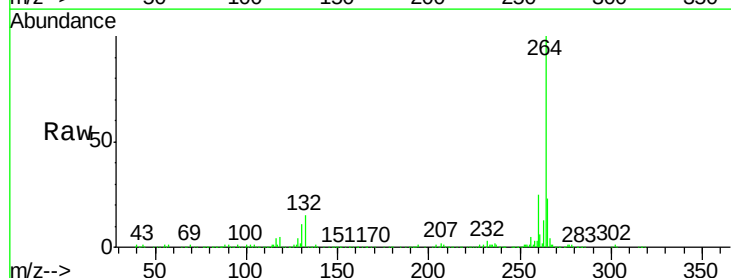
Tgt Ion:264 Resp: 222310

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

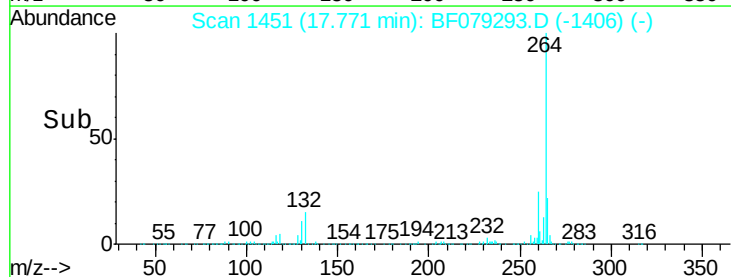
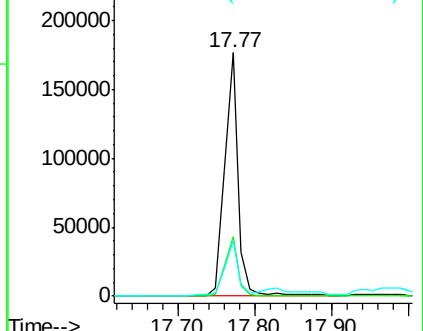
265 22.6 17.2 25.8

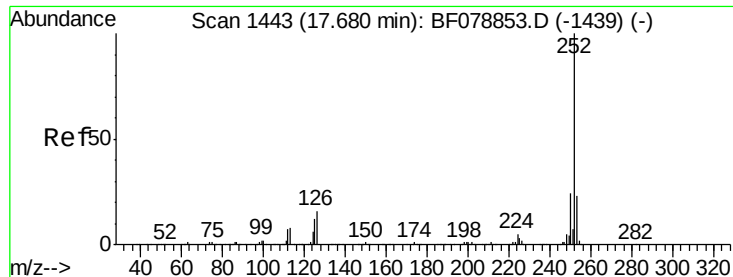


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 32.24 ng

RT: 17.33 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

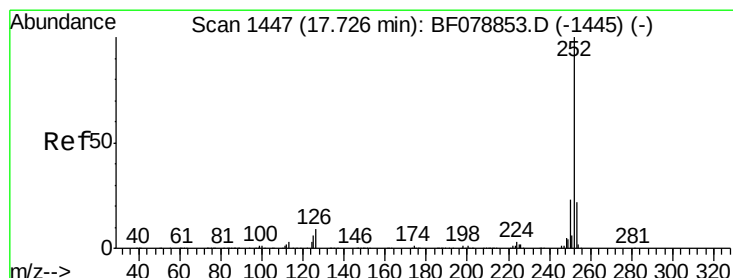
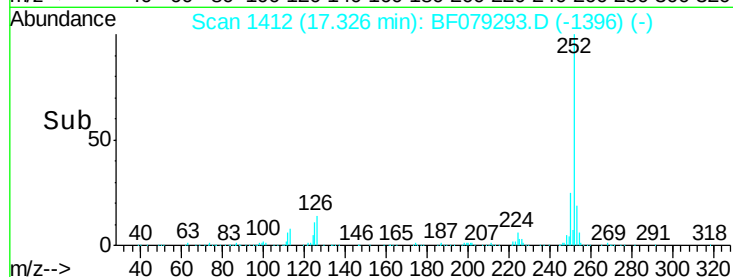
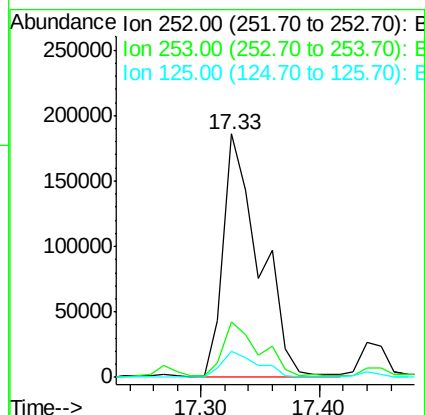
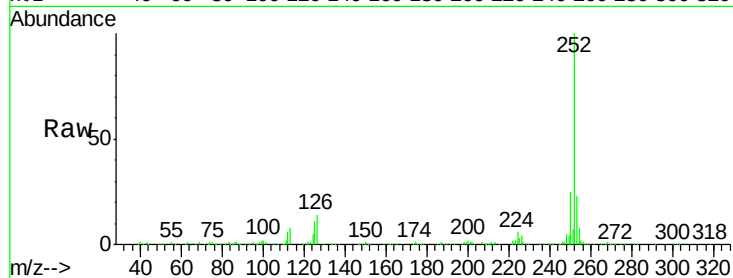
Instrument :

BNA_F

ClientSampled :

SB-12DL

Tgt Ion:	252	Resp:	392285
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.1	27.1
125	10.8	9.4	14.2



#88

Benzo(k)fluoranthene

Concen: 33.30 ng

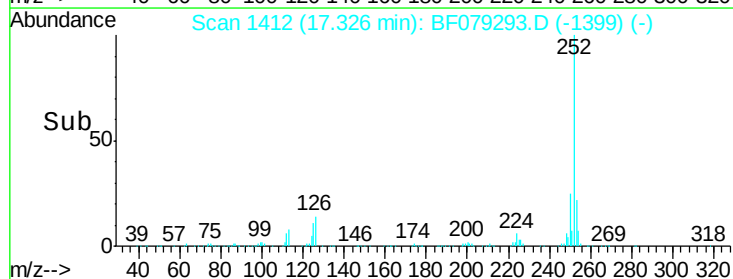
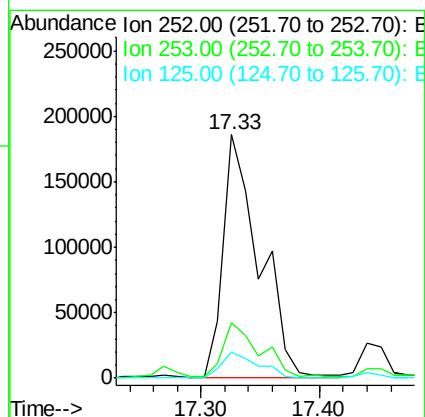
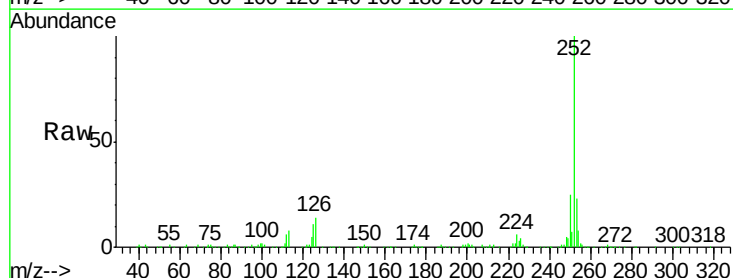
RT: 17.33 min Scan# 1412

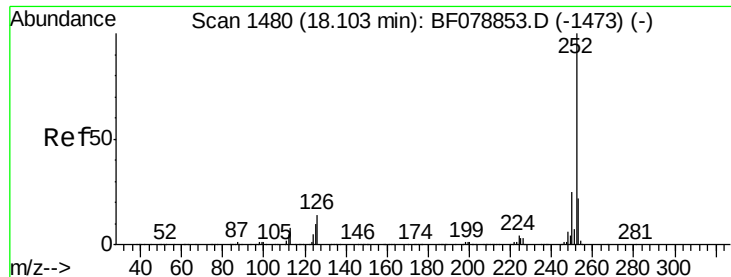
Delta R.T. -0.03 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Tgt Ion:	252	Resp:	392285
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.4	26.0
125	10.8	6.1	9.1#





#89

Benzo(a)pyrene

Concen: 19.50 ng

RT: 17.70 min Scan# 1445

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampleId :

SB-12DL

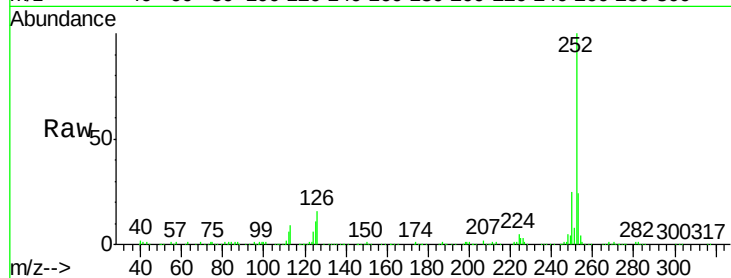
Tgt Ion:252 Resp: 218447

Ion Ratio Lower Upper

252 100

253 23.6 18.0 27.0

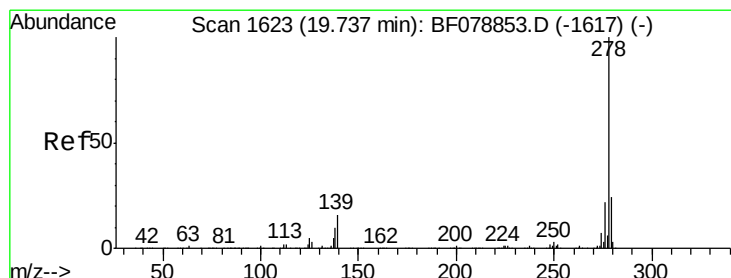
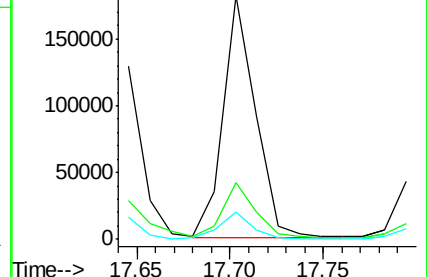
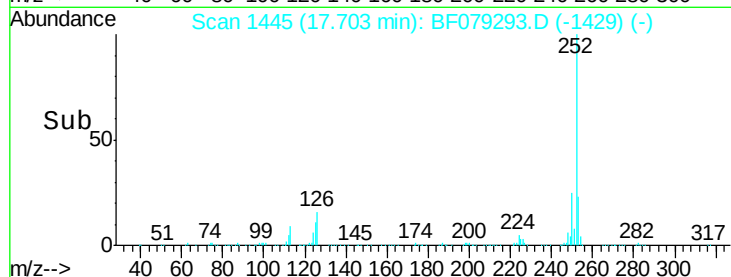
125 11.2 8.2 12.2



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



#90

Dibenzo(a,h)anthracene

Concen: 2.77 ng

RT: 19.18 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

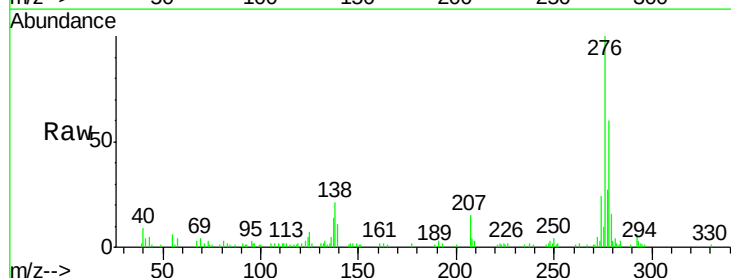
Tgt Ion:278 Resp: 32927

Ion Ratio Lower Upper

278 100

139 17.9 13.1 19.7

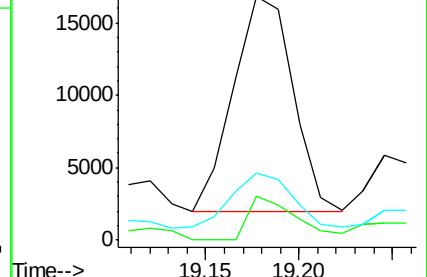
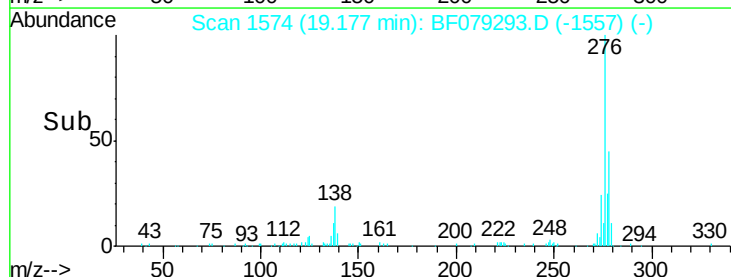
279 27.6 19.1 28.7

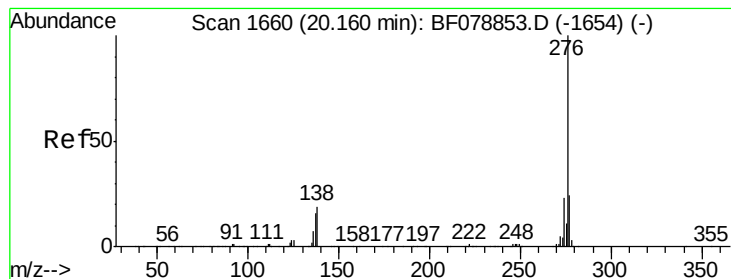


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 11.55 ng

RT: 19.58 min Scan# 1609

Delta R.T. 0.00 min

Lab File: BF079293.D

Acq: 16 May 2015 4:50

Instrument :

BNA_F

ClientSampleId :

SB-12DL

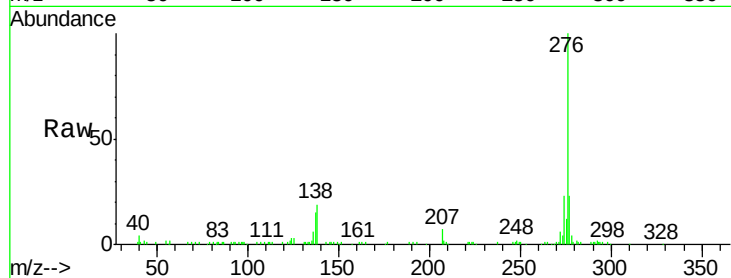
Tgt Ion: 276 Resp: 137826

Ion Ratio Lower Upper

276 100

277 23.4 18.8 28.2

138 18.8 15.2 22.8



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

