

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
 Data File : BF083461.D
 Acq On : 3 Dec 2015 15:39
 Operator : UM/IZ
 Sample : G4585-02
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-13(0-8)

Quant Time: Dec 03 17:10:47 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 03 17:02:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	163112	20.00	ng	-0.01
21) Naphthalene-d8	7.81	136	653418	20.00	ng	-0.01
38) Acenaphthene-d10	9.56	164	345030	20.00	ng	0.00
63) Phenanthrene-d10	11.09	188	593583	20.00	ng	0.00
75) Chrysene-d12	14.72	240	445930	20.00	ng	0.00
86) Perylene-d12	16.79	264	377596	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.13	112	1542584	141.91	ng	0.01
7) Phenol-d6	6.20	99	1944844	130.72	ng	0.00
23) Nitrobenzene-d5	7.10	82	1378610	92.75	ng	0.00
41) 2,4,6-Tribromophenol	10.35	330	396405	114.45	ng	-0.01
44) 2-Fluorobiphenyl	8.90	172	1980169	81.79	ng	0.00
78) Terphenyl-d14	13.19	244	1785812	95.51	ng	0.00

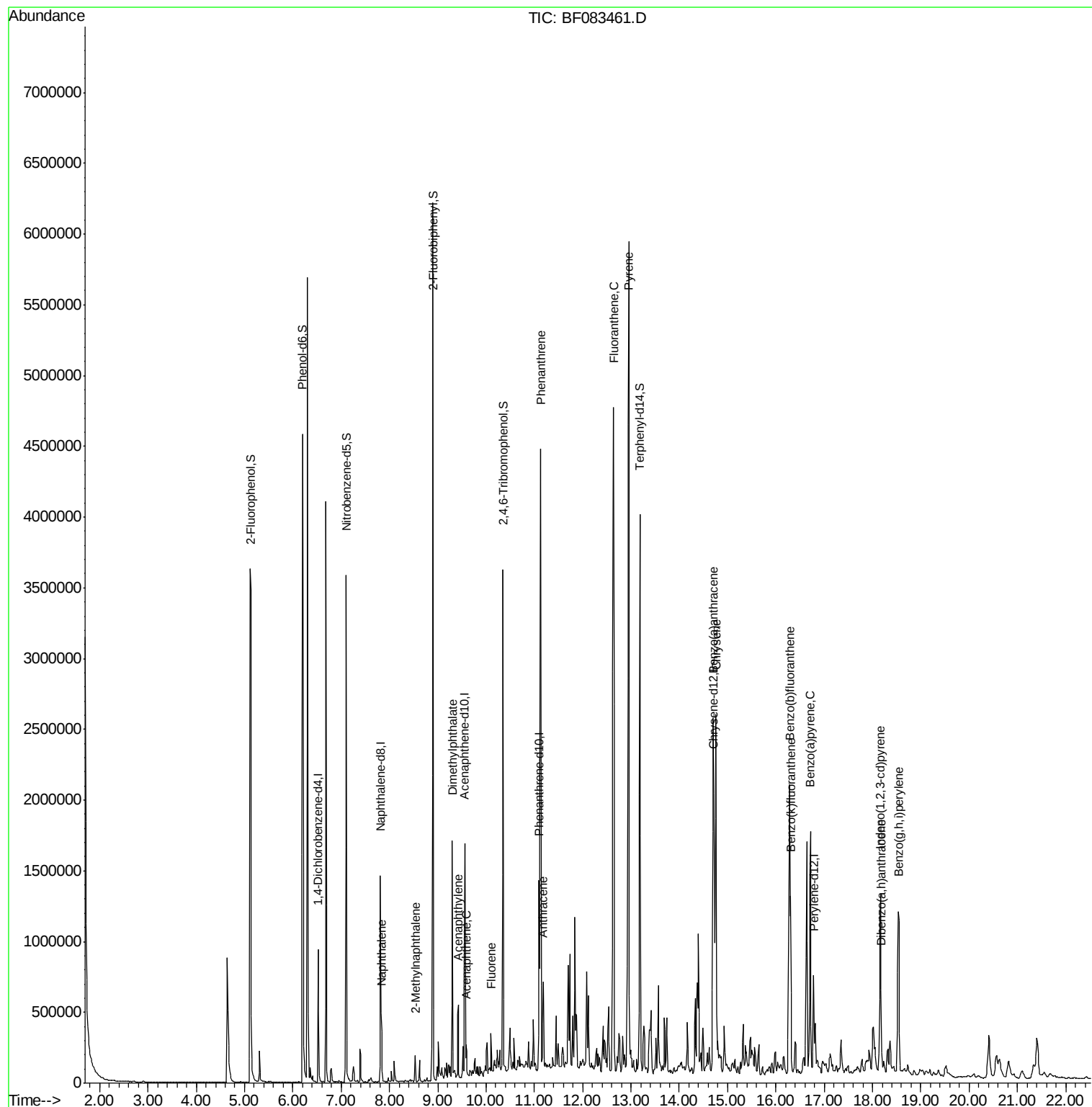
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.84	128	150766	4.25	ng	97
37) 2-Methylnaphthalene	8.53	142	51823	2.19	ng	97
48) Acenaphthylene	9.42	152	315808	8.59	ng	97
49) Dimethylphthalate	9.30	163	577647	20.60	ng	99
51) Acenaphthene	9.58	154	66983	3.10	ng	98
57) Fluorene	10.10	166	85114	3.40	ng	95
70) Phenanthrene	11.13	178	1893237	53.90	ng	97
71) Anthracene	11.18	178	284311	8.04	ng	97
74) Fluoranthene	12.64	202	3226277	88.60	ng	100
77) Pyrene	12.96	202	3974370	127.62	ng	94
80) Benzo(a)anthracene	14.71	228	1586011	58.05	ng	98
82) Chrysene	14.76	228	1434220	54.34	ng	99
85) Indeno(1,2,3-cd)pyrene	18.17	276	899900	46.81	ng	93
87) Benzo(b)fluoranthene	16.28	252	1521273m	62.79	ng	
88) Benzo(k)fluoranthene	16.31	252	529549m	23.15	ng	
89) Benzo(a)pyrene	16.72	252	909166	43.69	ng	99
90) Dibenzo(a,h)anthracene	18.18	278	196188	10.82	ng	97
91) Benzo(g,h,i)perylene	18.55	276	980957	55.12	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

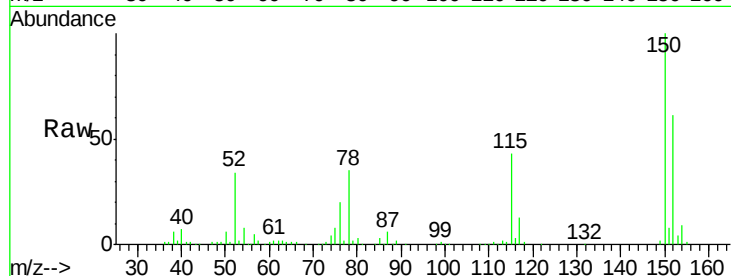
Tot Ion:152 Resp: 163112

Ion Ratio Lower Upper

152 100

150 163.8 129.8 194.8

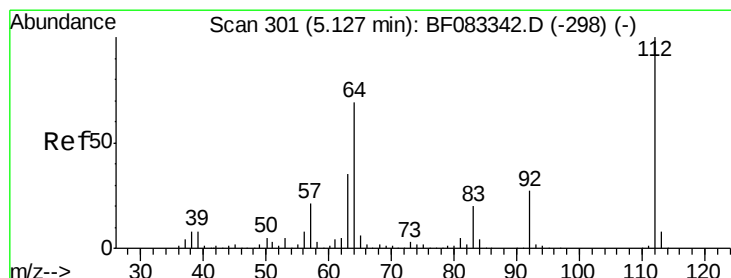
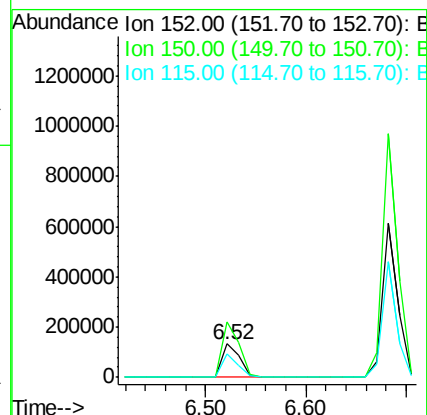
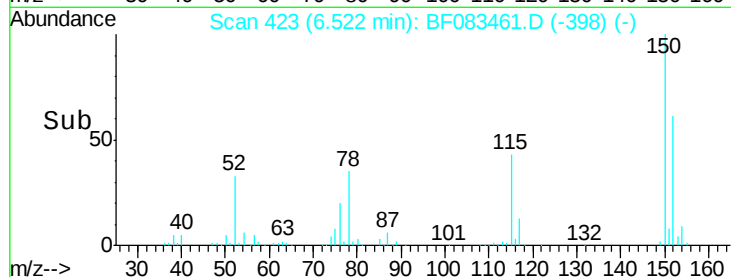
115 71.2 59.2 88.8



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: 141.91 ng

RT: 5.13 min Scan# 301

Delta R.T. 0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

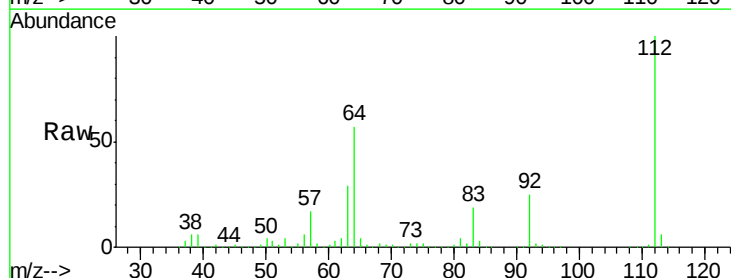
Tgt Ion:112 Resp: 1542584

Ion Ratio Lower Upper

112 100

64 57.2 55.6 83.4

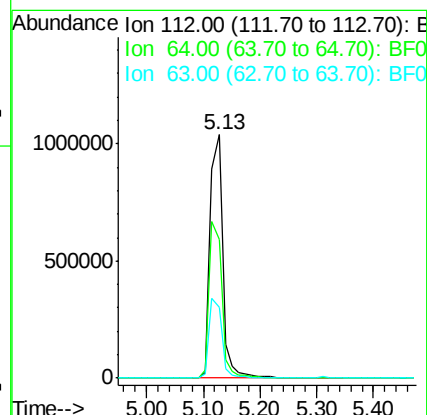
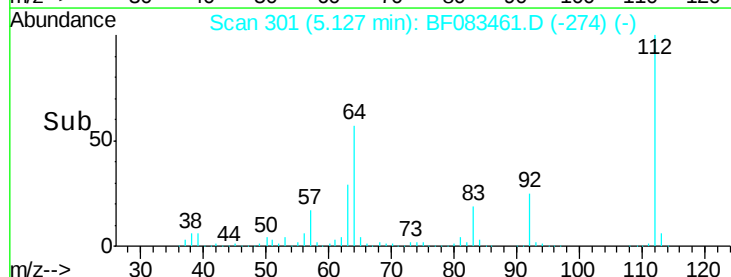
63 29.1 28.2 42.2



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: 130.72 ng

RT: 6.20 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

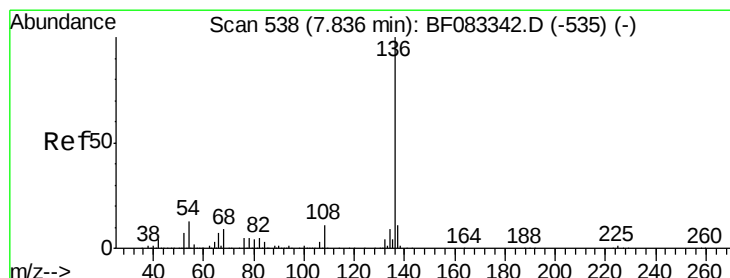
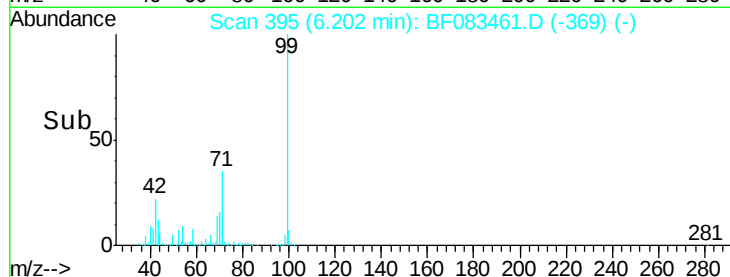
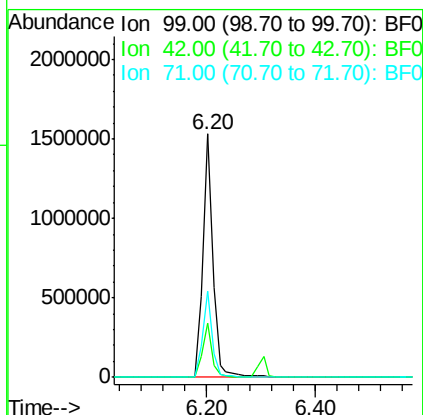
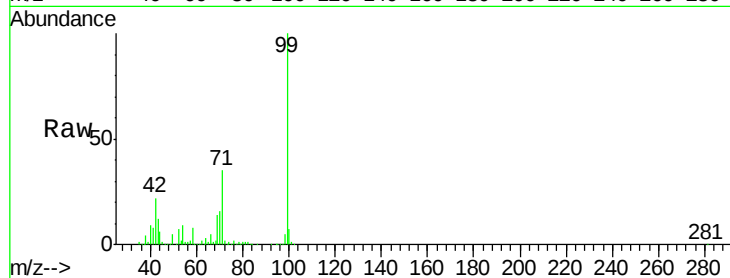
BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

Tot Ion: 99 Resp: 1944844

Ion	Ratio	Lower	Upper
99	100		
42	22.3	14.9	22.3#
71	35.3	24.7	37.1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.81 min Scan# 536

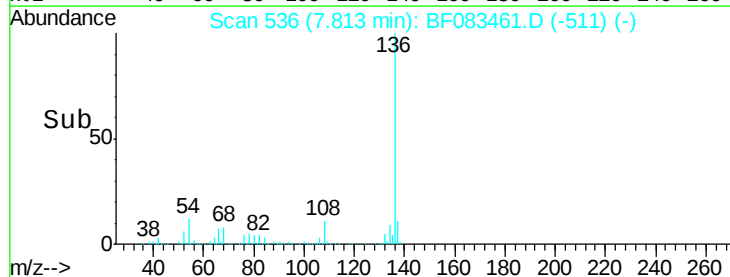
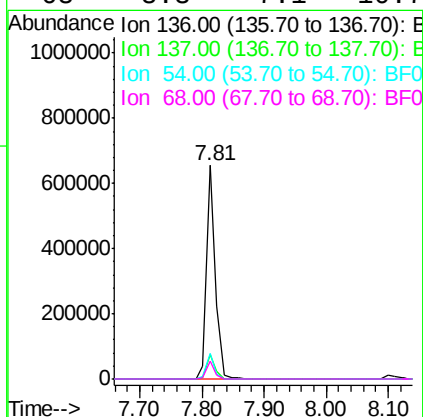
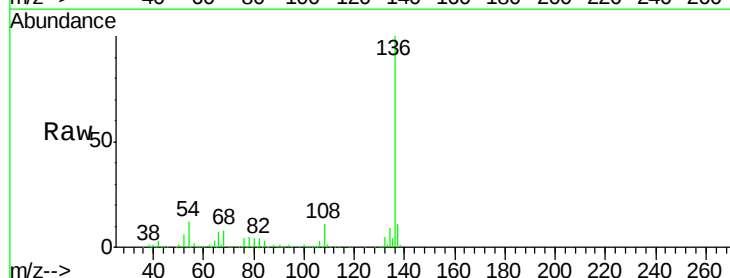
Delta R.T. -0.01 min

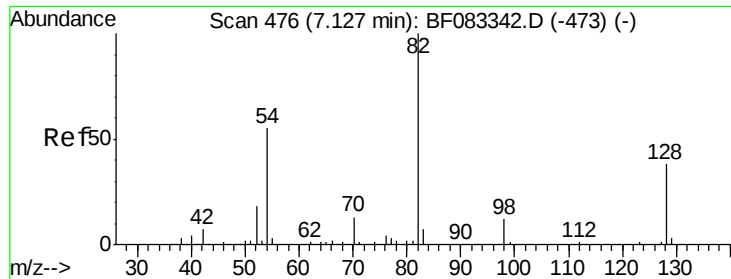
Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Tgt Ion: 136 Resp: 653418

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	12.2	10.1	15.1
68	8.3	7.1	10.7

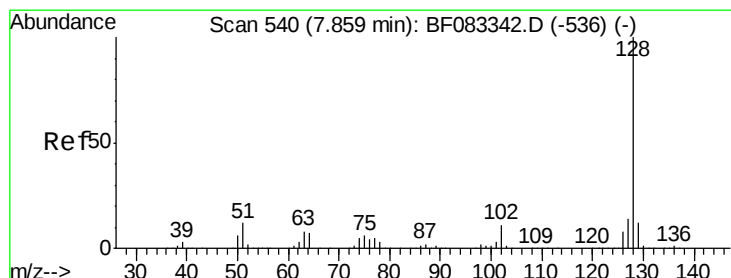
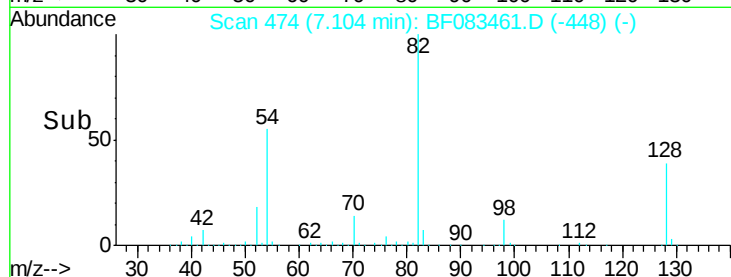
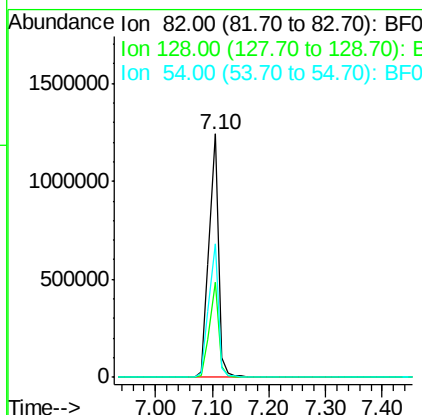
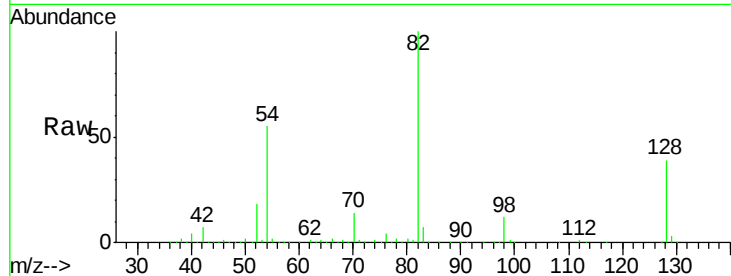




#23
 Nitrobenzene-d5
 Concen: 92.75 ng
 RT: 7.10 min Scan# 474
 Delta R.T. -0.00 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

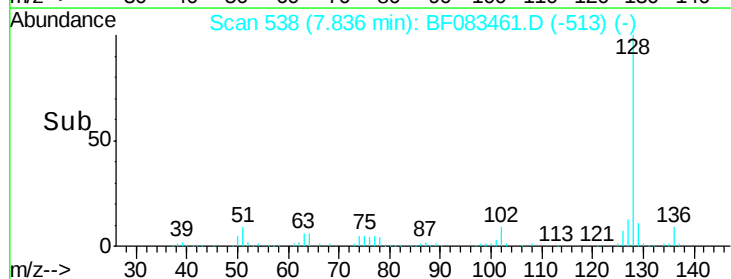
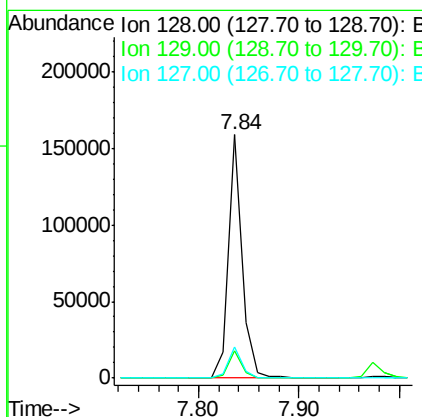
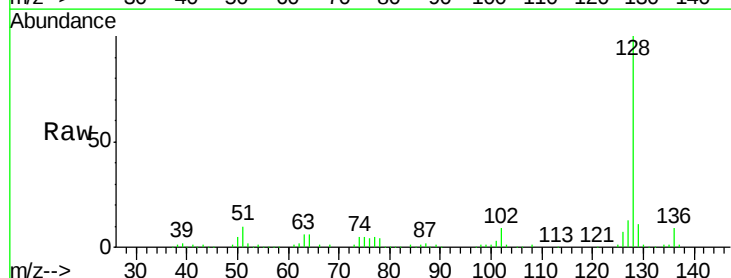
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-13(0-8)

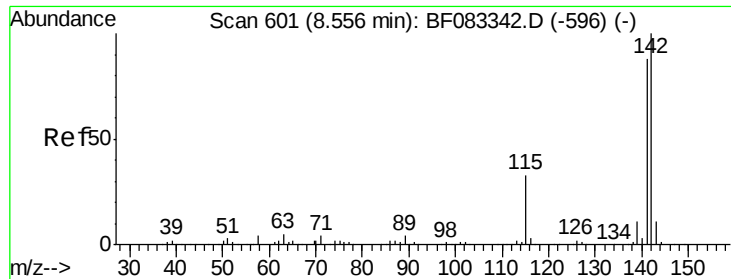
Tot Ion: 82 Resp: 1378610
 Ion Ratio Lower Upper
 82 100
 128 39.1 30.6 46.0
 54 54.9 43.8 65.6



#31
 Naphthalene
 Concen: 4.25 ng
 RT: 7.84 min Scan# 538
 Delta R.T. -0.01 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Tgt Ion: 128 Resp: 150766
 Ion Ratio Lower Upper
 128 100
 129 11.0 9.7 14.5
 127 12.6 11.0 16.4

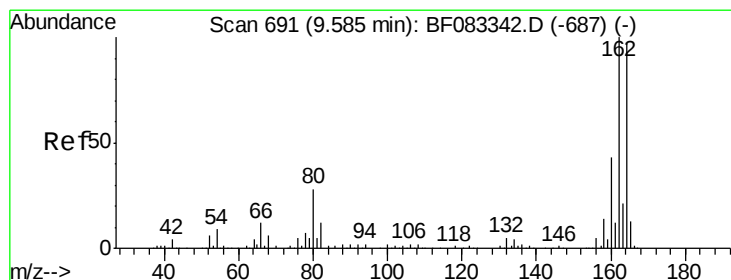
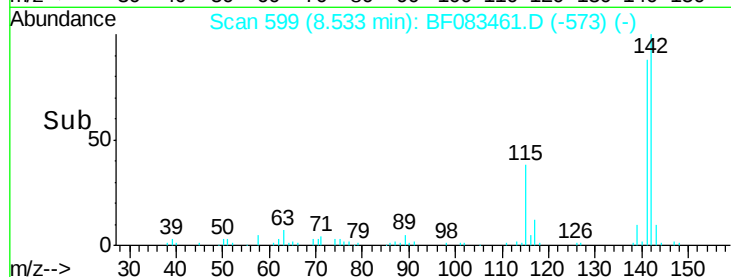
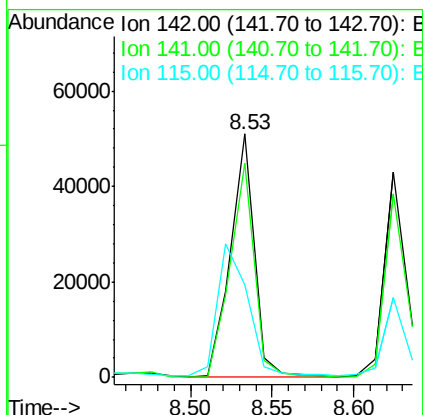
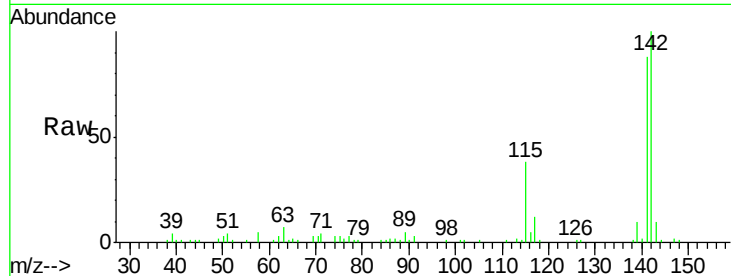




#37
2-Methylnaphthalene
Concen: 2.19 ng
RT: 8.53 min Scan# 599
Delta R.T. -0.00 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

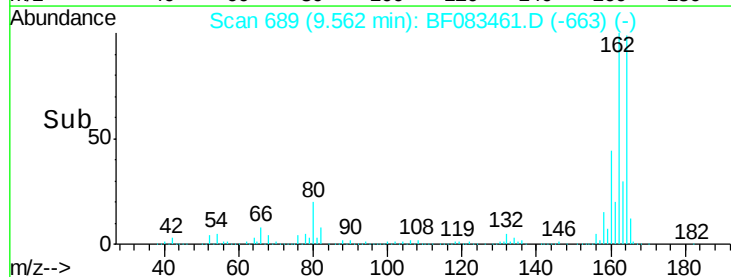
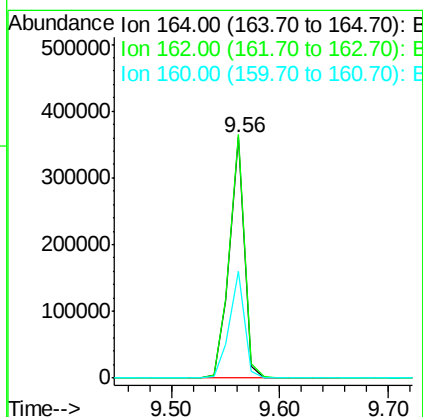
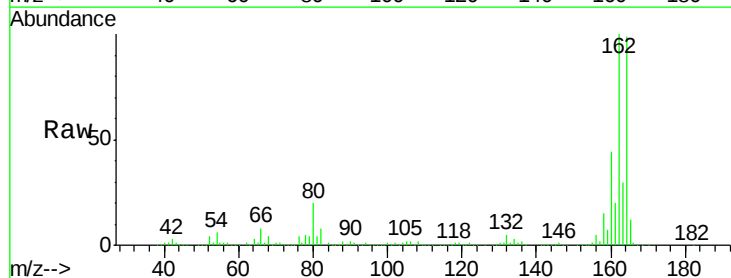
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-13(0-8)

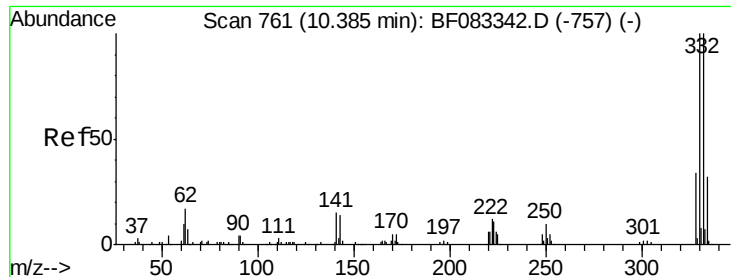
Tot Ion:142 Resp: 51823
Ion Ratio Lower Upper
142 100
141 88.0 70.6 105.8
115 38.0 26.2 39.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 689
Delta R.T. -0.00 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Tgt Ion:164 Resp: 345030
Ion Ratio Lower Upper
164 100
162 101.0 82.6 123.8
160 44.5 35.3 52.9

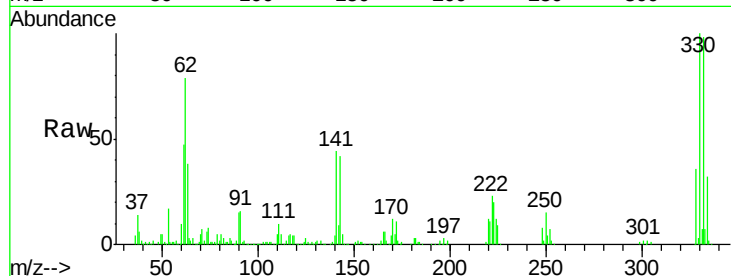




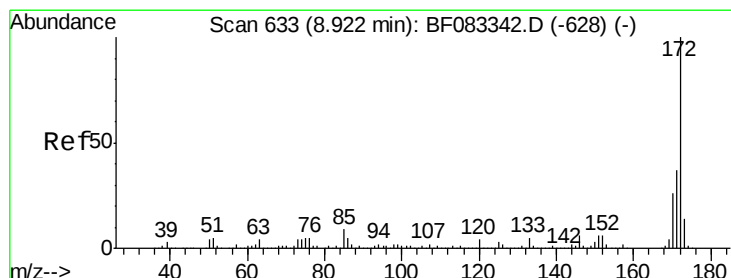
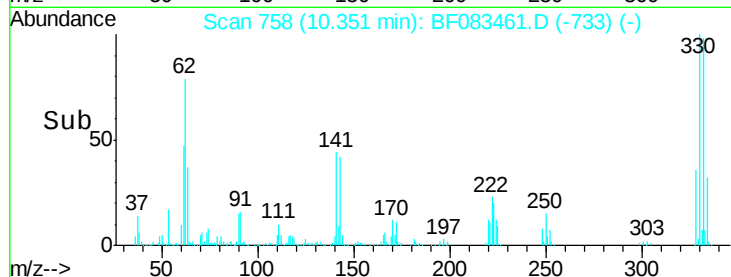
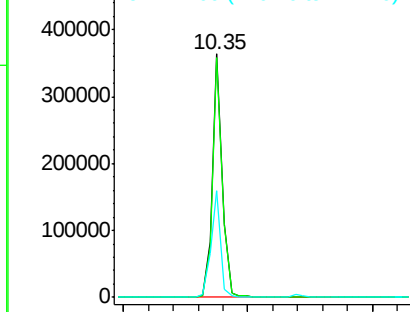
#41
 2,4,6-Tribromophenol
 Concen: 114.45 ng
 RT: 10.35 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-13(0-8)

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.8	116.6
141	42.8	29.4	44.0

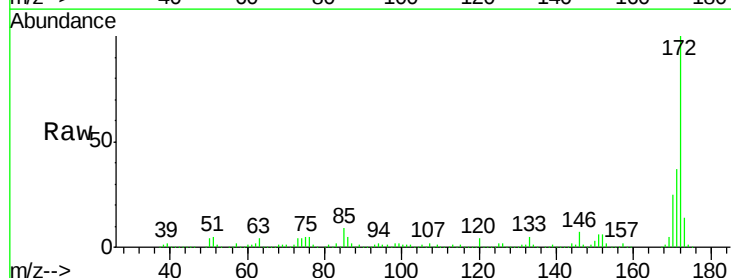


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

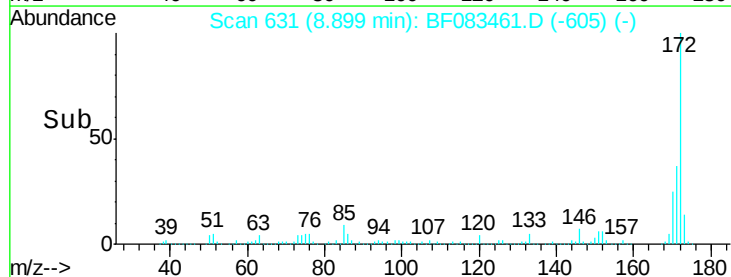
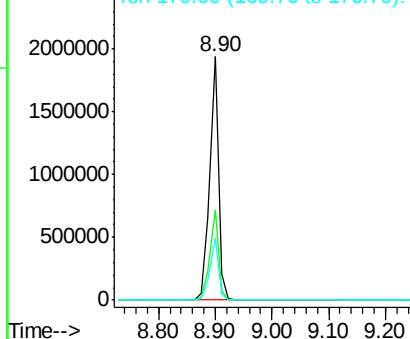


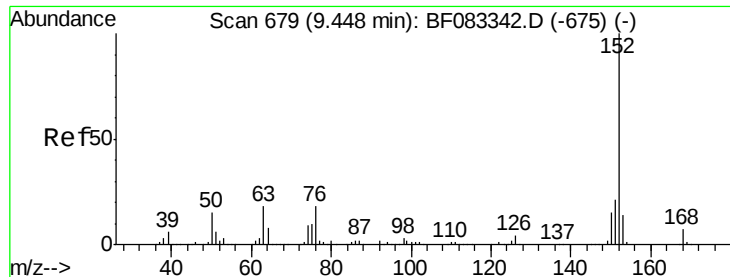
#44
 2-Fluorobiphenyl
 Concen: 81.79 ng
 RT: 8.90 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.4	44.0
170	25.2	20.4	30.6



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





#48

Acenaphthylene

Concen: 8.59 ng

RT: 9.42 min Scan# 677

Delta R.T. -0.00 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

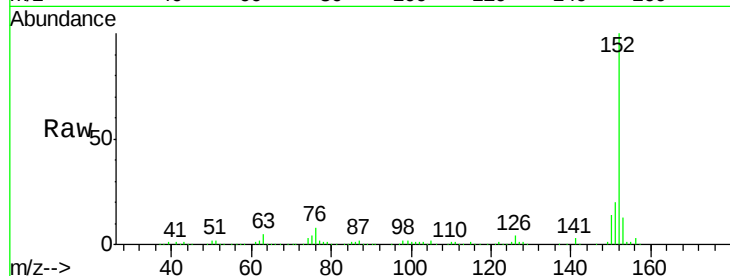
Tot Ion:152 Resp: 315808

Ion Ratio Lower Upper

152 100

151 19.6 16.7 25.1

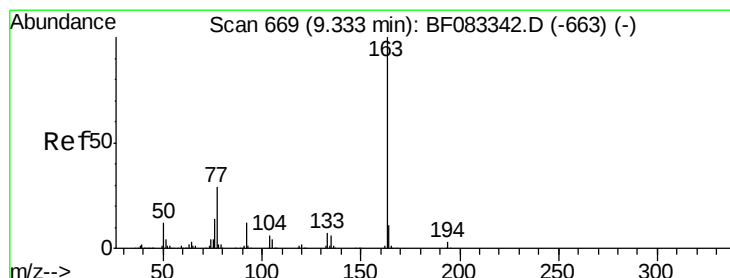
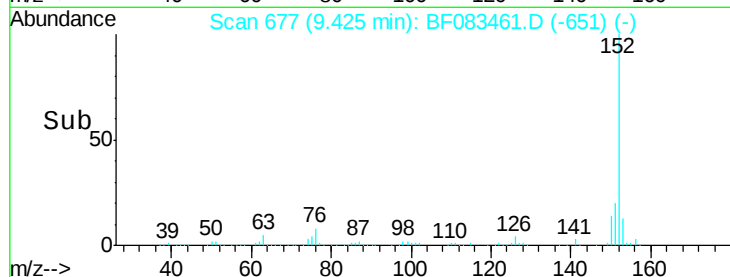
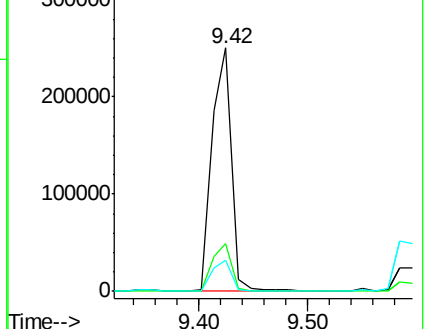
153 13.0 11.2 16.8



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



#49

Dimethylphthalate

Concen: 20.60 ng

RT: 9.30 min Scan# 666

Delta R.T. -0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

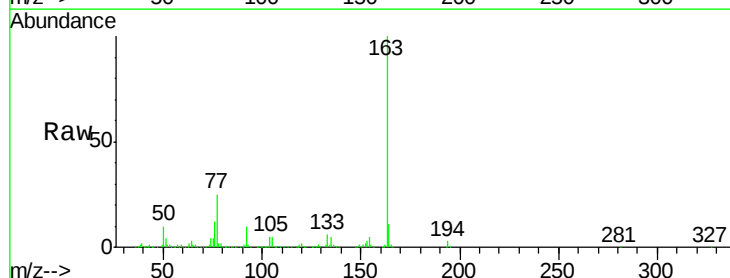
Tgt Ion:163 Resp: 577647

Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

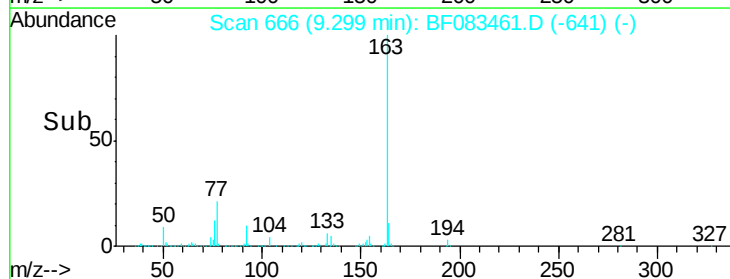
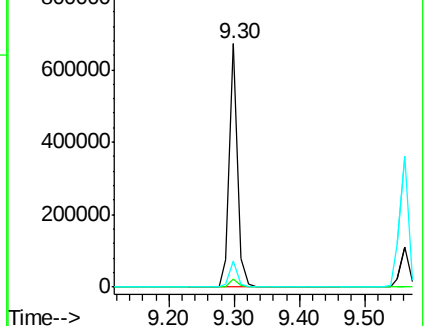
164 10.7 8.8 13.2

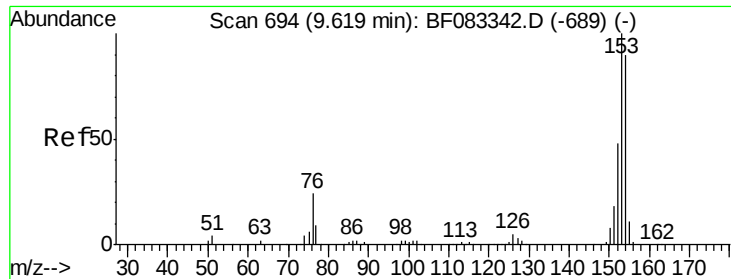


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 3.10 ng

RT: 9.58 min Scan# 691

Delta R.T. -0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

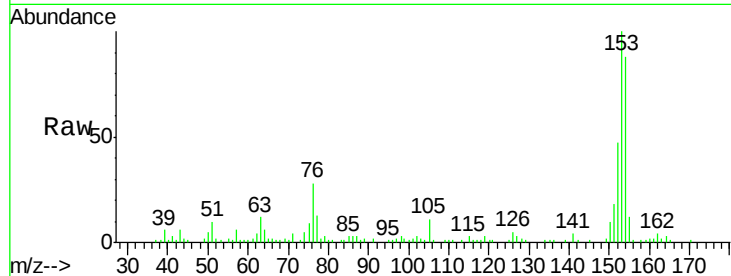
Tot Ion:154 Resp: 66983

Ion Ratio Lower Upper

154 100

153 113.6 89.3 133.9

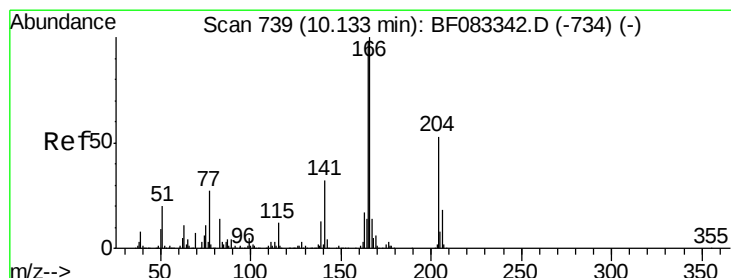
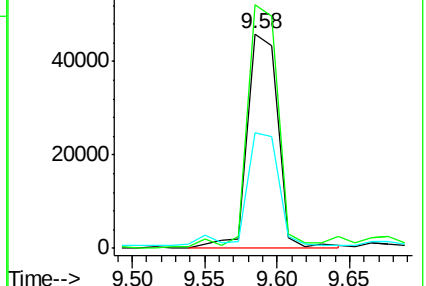
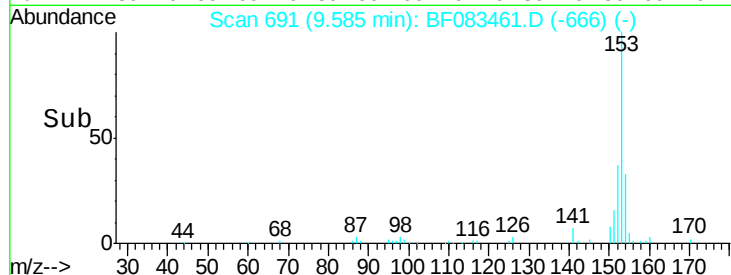
152 53.7 42.5 63.7



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



#57

Fluorene

Concen: 3.40 ng

RT: 10.10 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

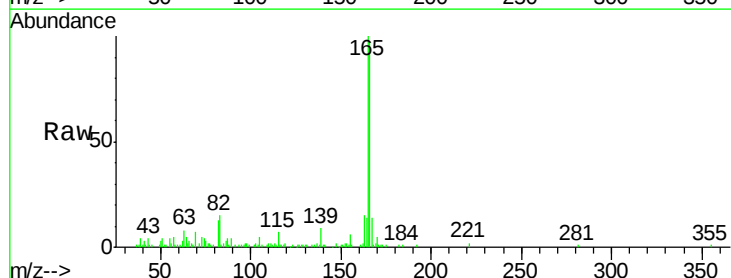
Tgt Ion:166 Resp: 85114

Ion Ratio Lower Upper

166 100

165 103.3 78.3 117.5

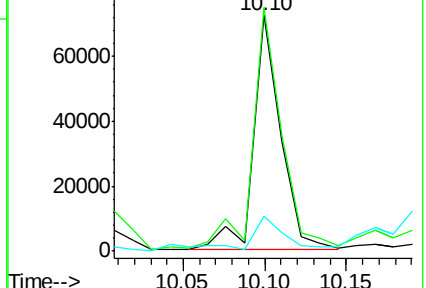
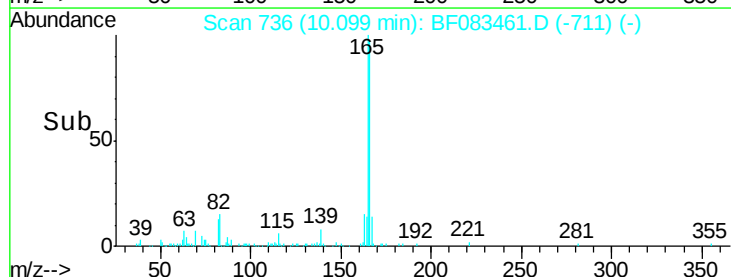
167 14.7 11.1 16.7

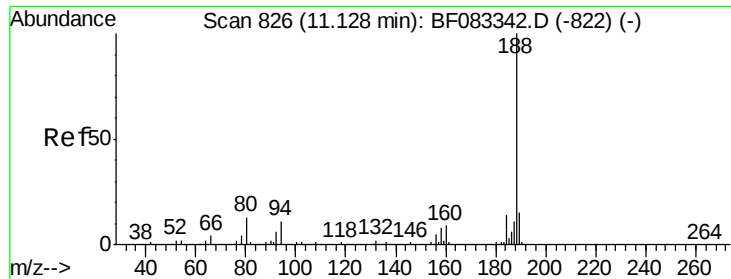


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

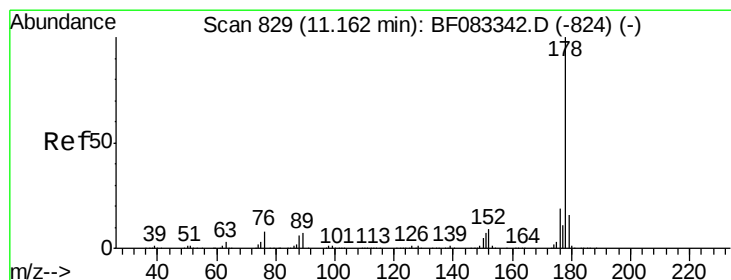
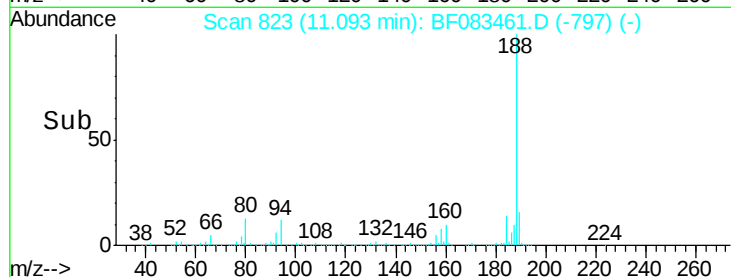
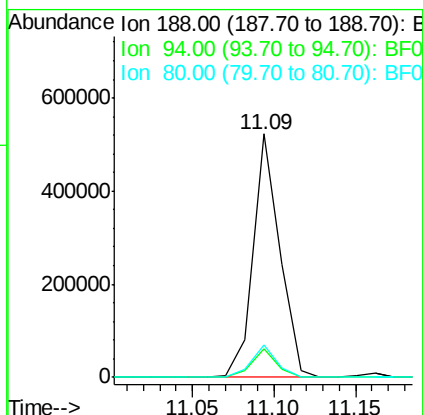
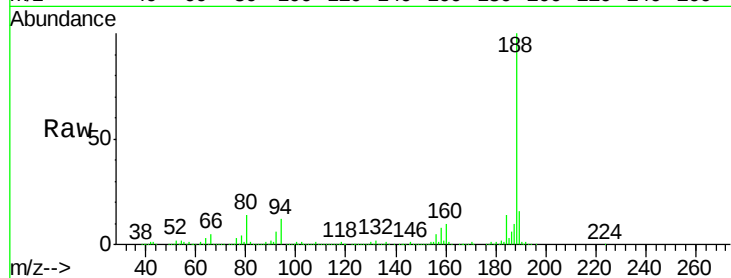




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.09 min Scan# 823
Delta R.T. -0.00 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

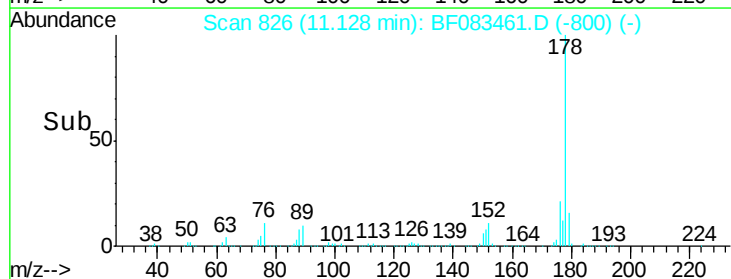
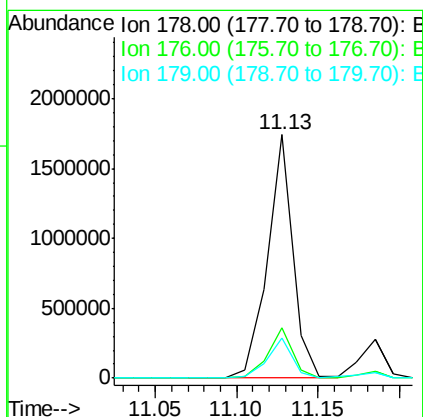
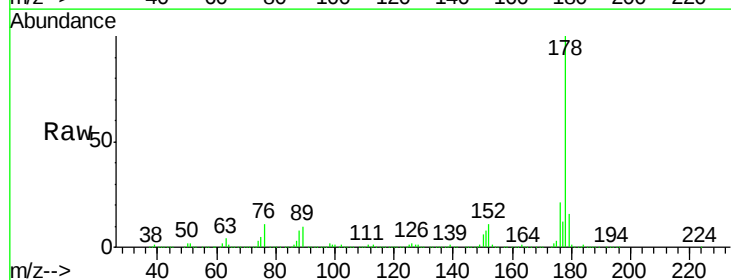
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-13(0-8)

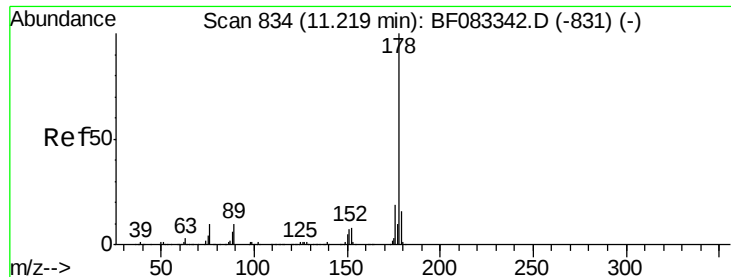
Tot Ion:188 Resp: 593583
Ion Ratio Lower Upper
188 100
94 11.6 8.7 13.1
80 13.5 10.3 15.5



#70
Phenanthrene
Concen: 53.90 ng
RT: 11.13 min Scan# 826
Delta R.T. -0.00 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Tgt Ion:178 Resp: 1893237
Ion Ratio Lower Upper
178 100
176 20.5 15.3 22.9
179 16.4 12.4 18.6

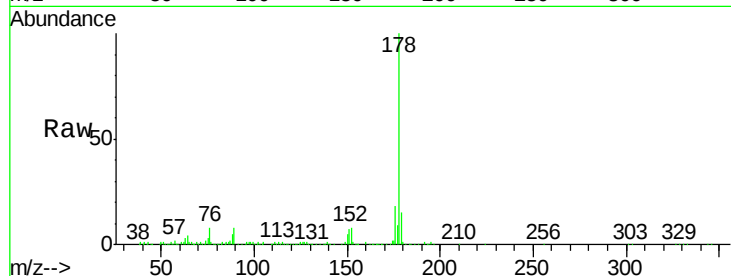




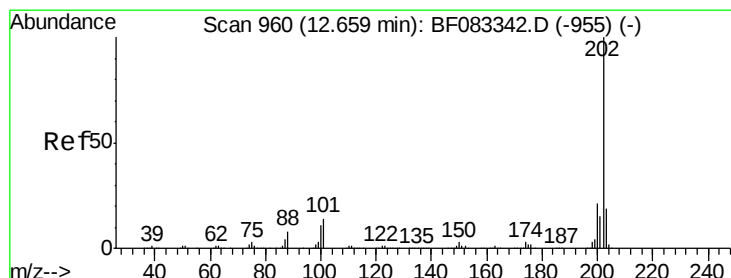
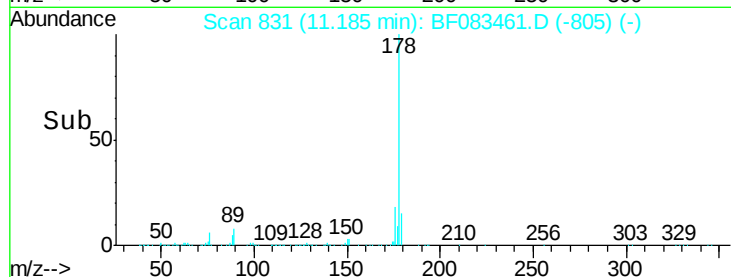
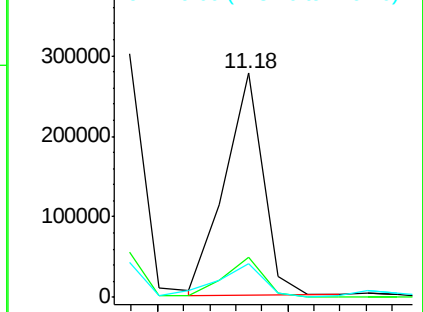
#71
 Anthracene
 Concen: 8.04 ng
 RT: 11.18 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-13(0-8)

Tot Ion:178 Resp: 284311
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.6 23.4
 179 14.8 12.8 19.2

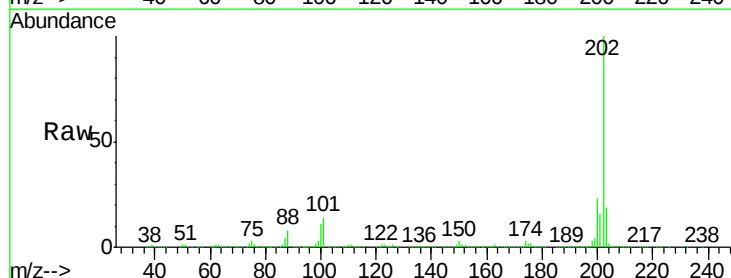


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

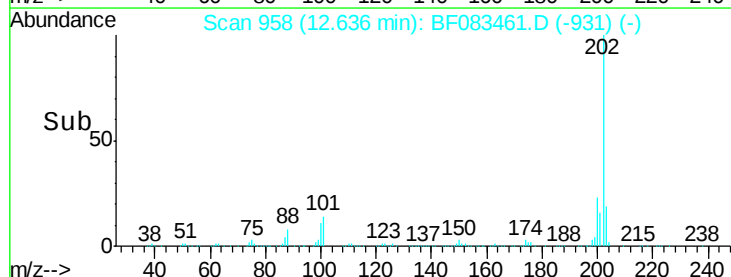
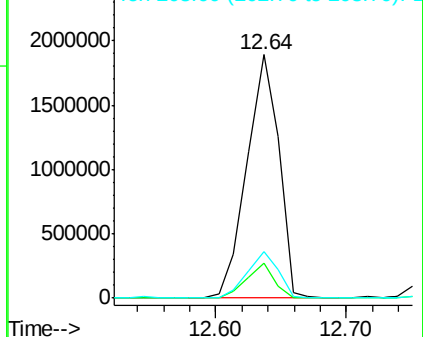


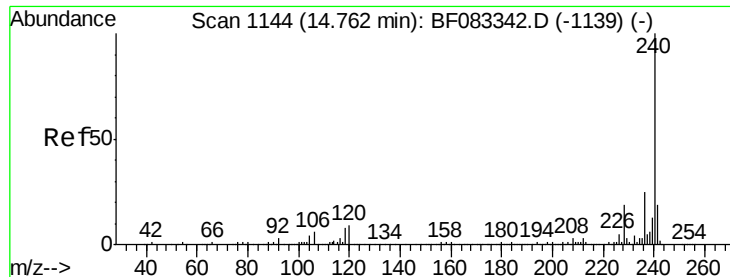
#74
 Fluoranthene
 Concen: 88.60 ng
 RT: 12.64 min Scan# 958
 Delta R.T. 0.01 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Tgt Ion:202 Resp: 3226277
 Ion Ratio Lower Upper
 202 100
 101 14.4 0.0 34.5
 203 19.0 0.0 38.7



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

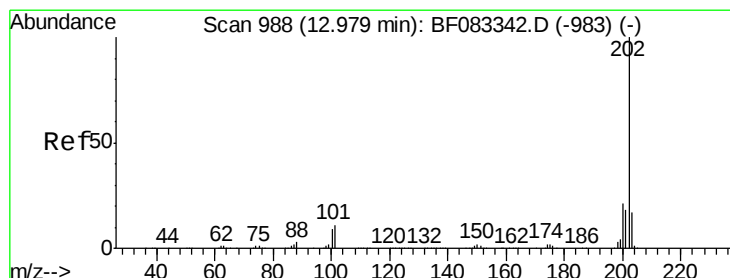
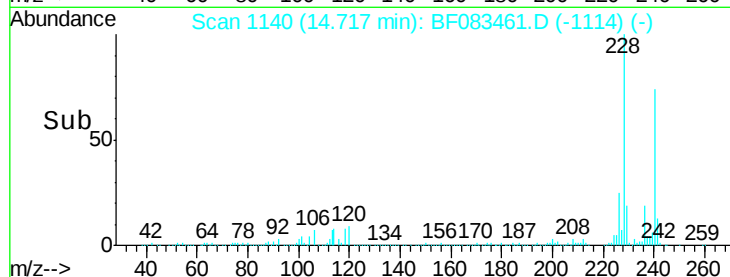
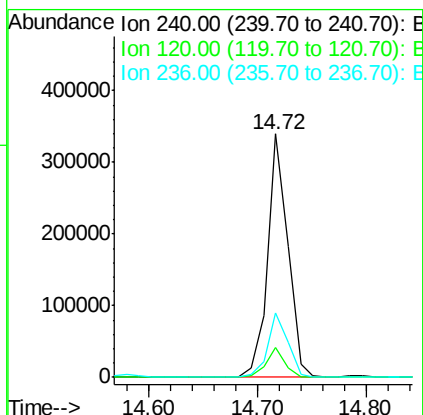
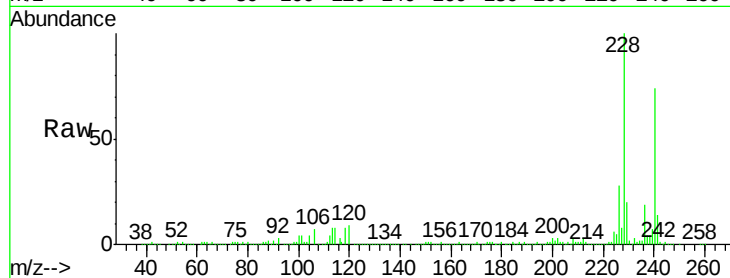




#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.72 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

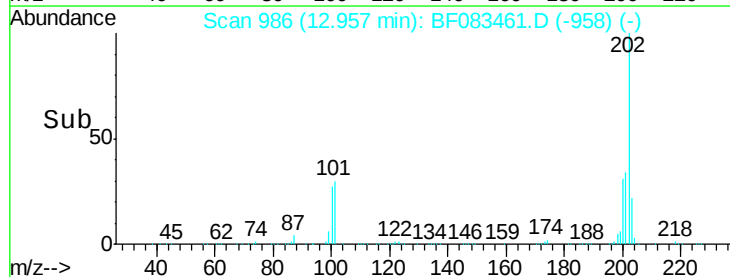
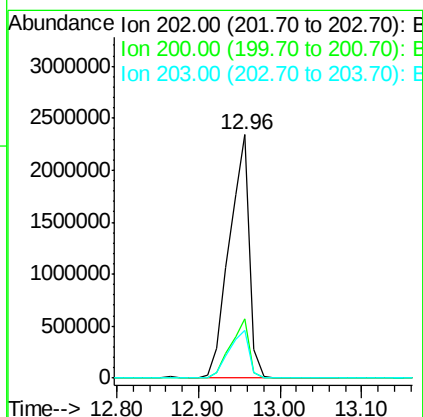
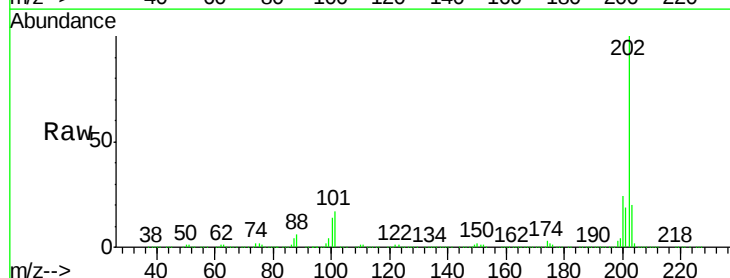
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-13(0-8)

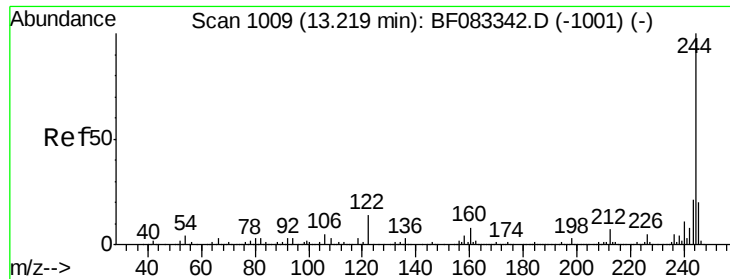
Tot Ion:240 Resp: 445930
Ion Ratio Lower Upper
240 100
120 12.3 6.9 10.3#
236 26.2 19.8 29.6



#77
Pyrene
Concen: 127.62 ng
RT: 12.96 min Scan# 986
Delta R.T. 0.02 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Tgt Ion:202 Resp: 3974370
Ion Ratio Lower Upper
202 100
200 24.3 16.9 25.3
203 19.5 13.9 20.9

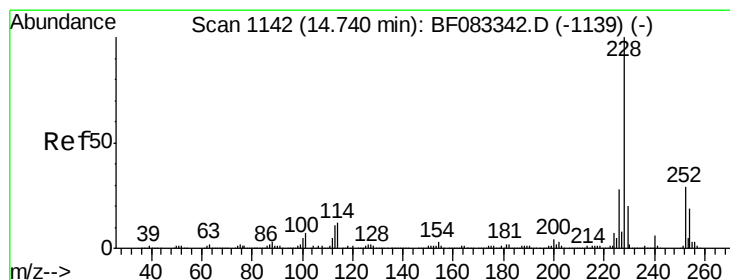
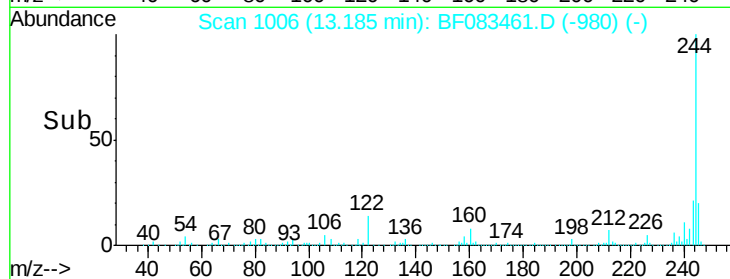
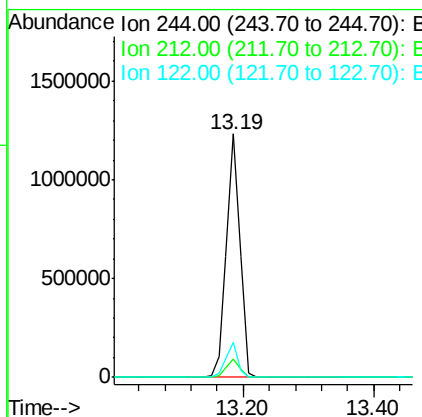
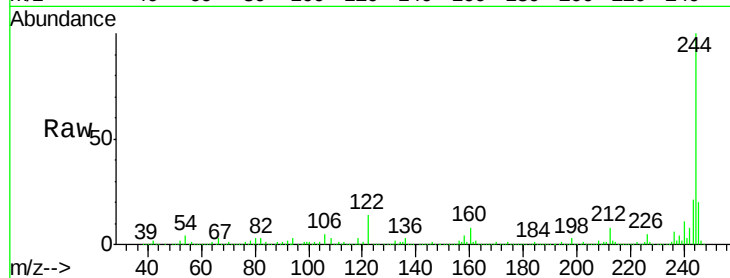




#78
 Terphenyl-d14
 Concen: 95.51 ng
 RT: 13.19 min Scan# 1006
 Delta R.T. -0.00 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

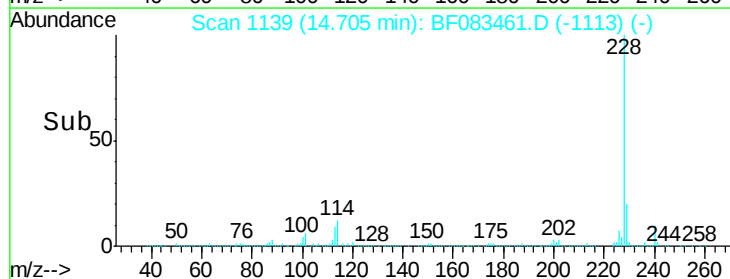
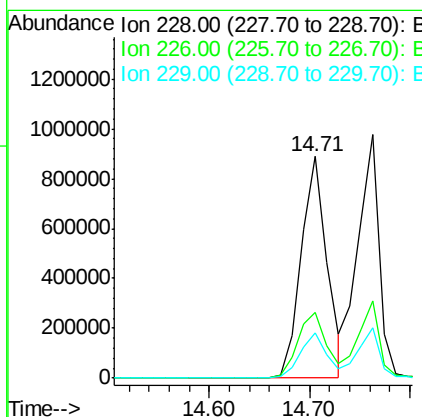
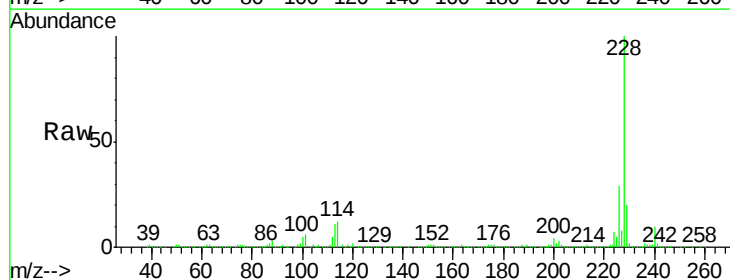
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-13(0-8)

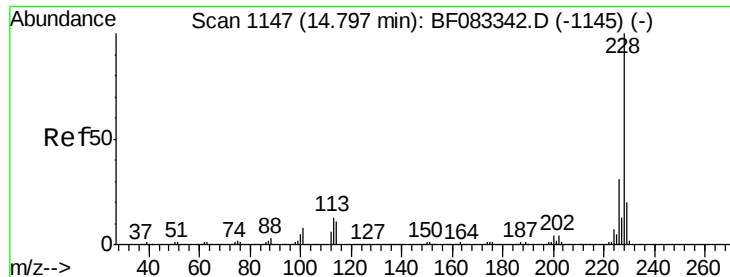
Tot Ion:244 Resp: 1785812
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.8
 122 14.1 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 58.05 ng
 RT: 14.71 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: BF083461.D
 Acq: 3 Dec 2015 15:39

Tgt Ion:228 Resp: 1586011
 Ion Ratio Lower Upper
 228 100
 226 29.4 22.2 33.4
 229 20.1 16.1 24.1





#82

Chrysene

Concen: 54.34 ng

RT: 14.76 min Scan# 1144

Delta R.T. -0.00 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

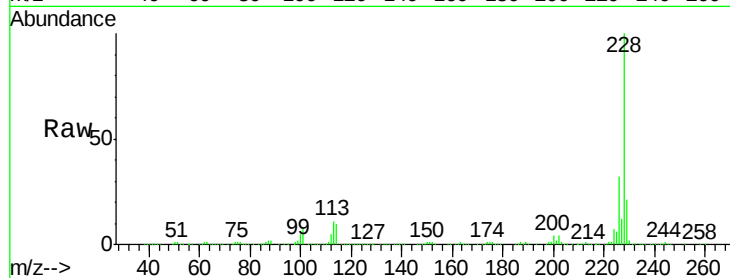
Tot Ion:228 Resp: 1434220

Ion Ratio Lower Upper

228 100

226 31.7 24.6 37.0

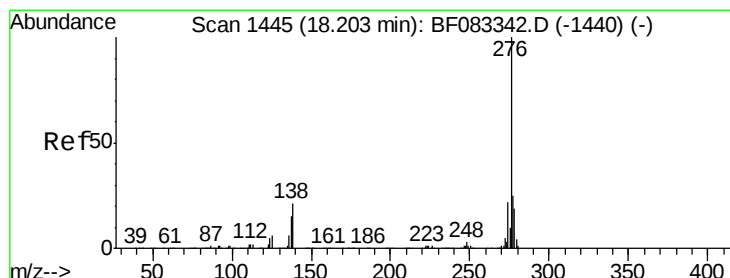
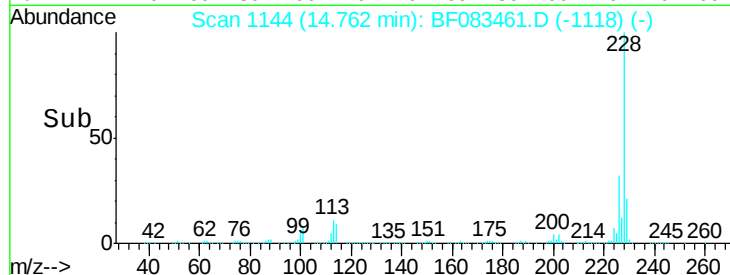
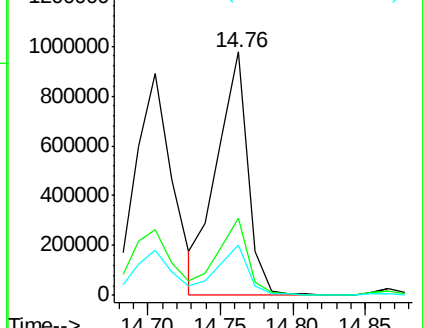
229 20.7 16.2 24.2



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: 46.81 ng

RT: 18.17 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

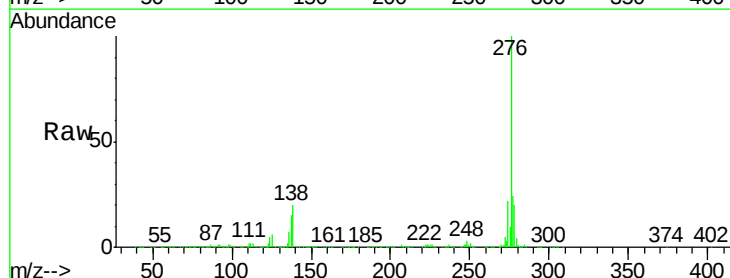
Tgt Ion:276 Resp: 899900

Ion Ratio Lower Upper

276 100

138 21.4 21.2 31.8

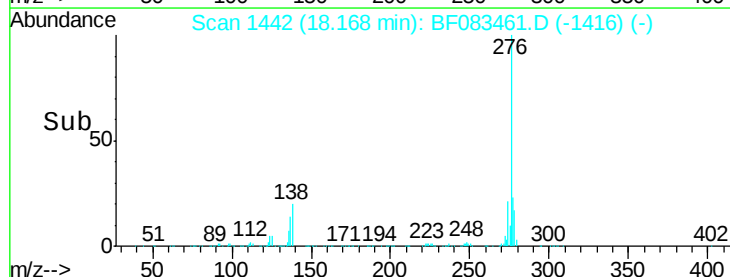
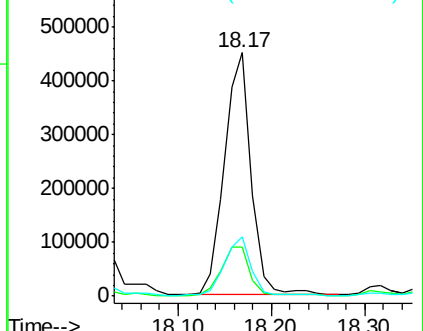
277 23.4 20.0 30.0

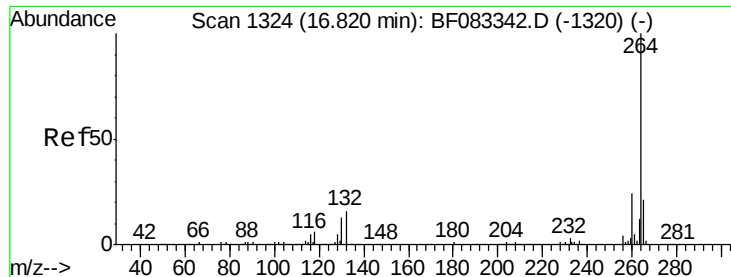


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

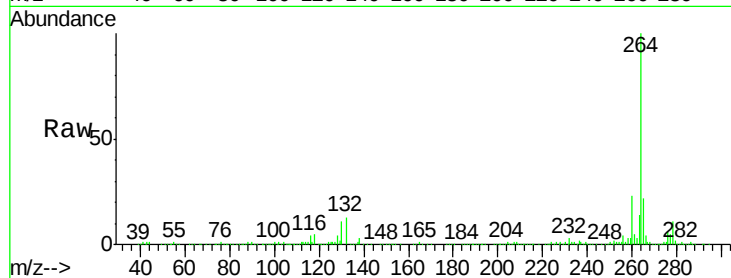




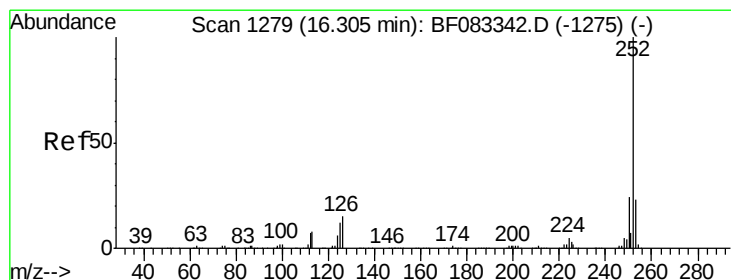
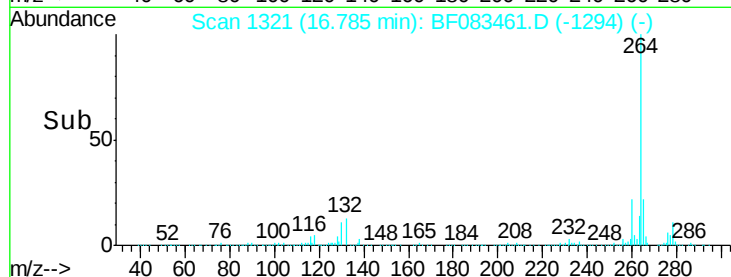
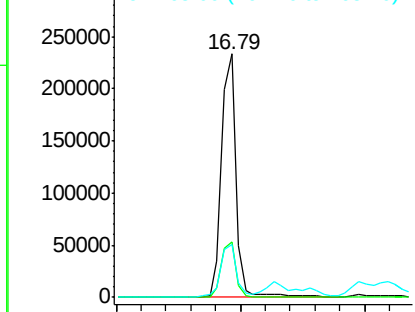
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.79 min Scan# 1321
Delta R.T. 0.01 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-13(0-8)

Tot Ion:264 Resp: 377596
Ion Ratio Lower Upper
264 100
260 22.7 19.0 28.4
265 21.7 16.8 25.2

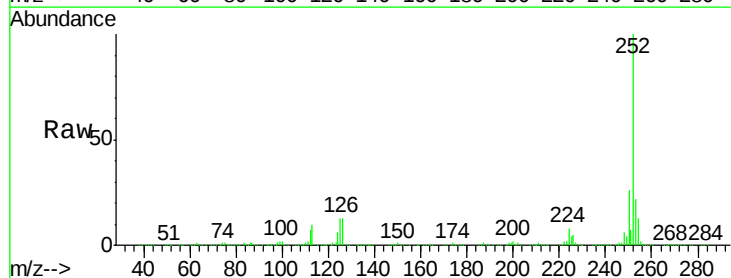


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

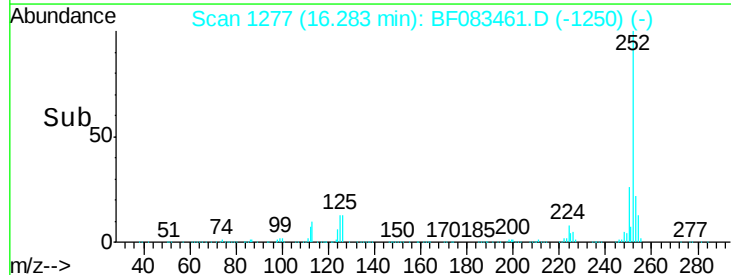
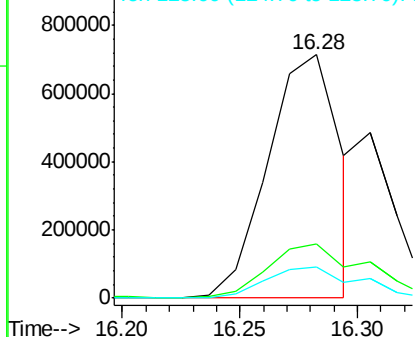


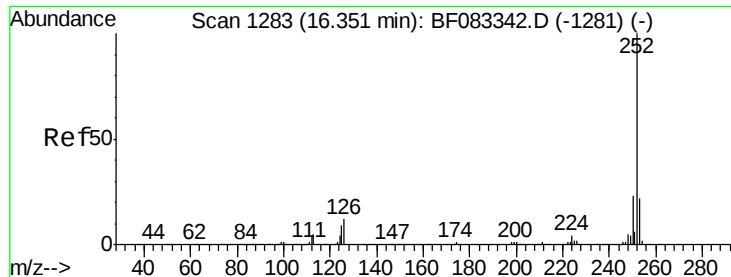
#87
Benzo(b)fluoranthene
Concen: 62.79 ng m
RT: 16.28 min Scan# 1277
Delta R.T. 0.01 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Tgt Ion:252 Resp: 1521273
Ion Ratio Lower Upper
252 100
253 22.0 18.4 27.6
125 12.6 9.6 14.4



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

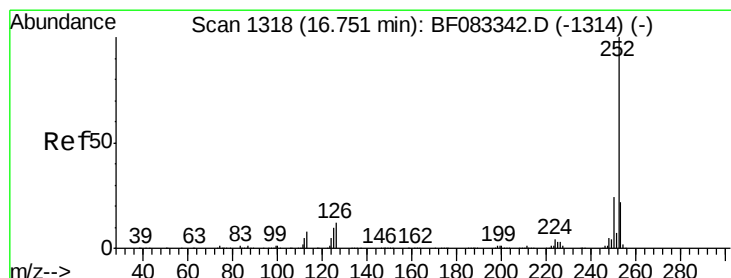
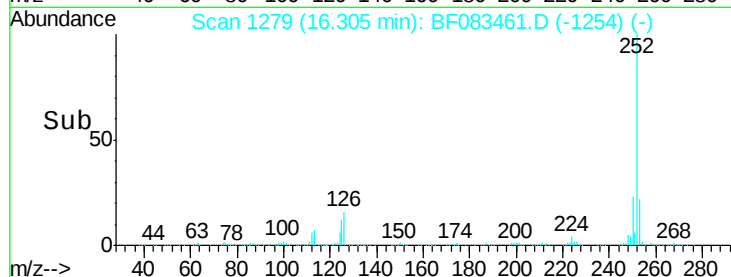
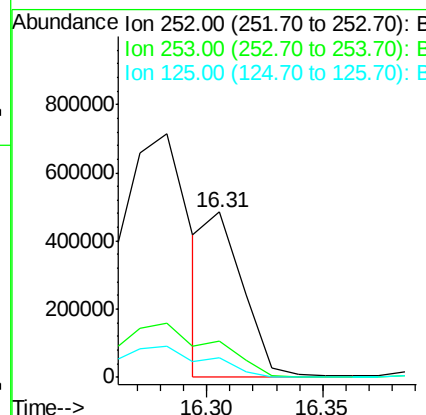
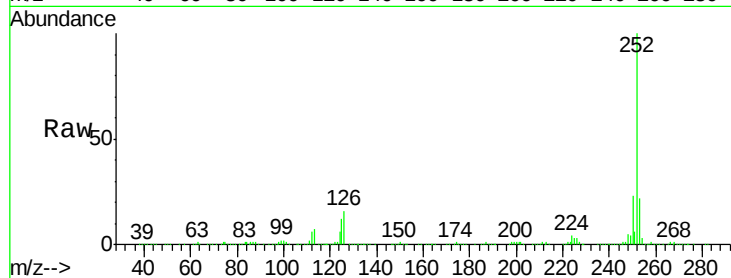




#88
Benzo(k)fluoranthene
Concen: 23.15 ng m
RT: 16.31 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

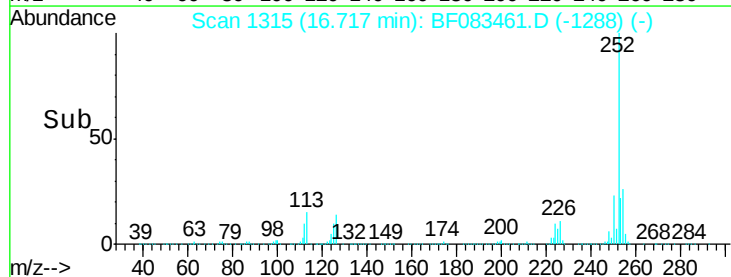
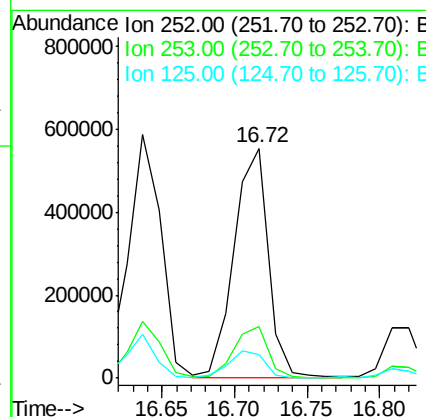
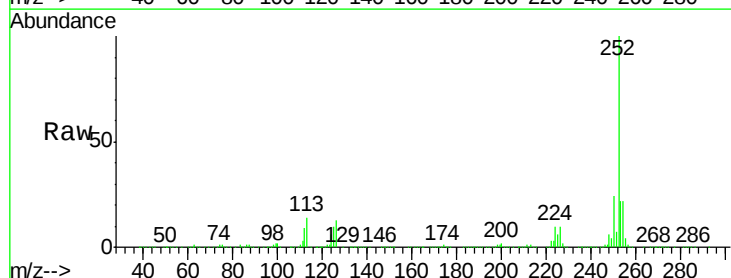
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-13(0-8)

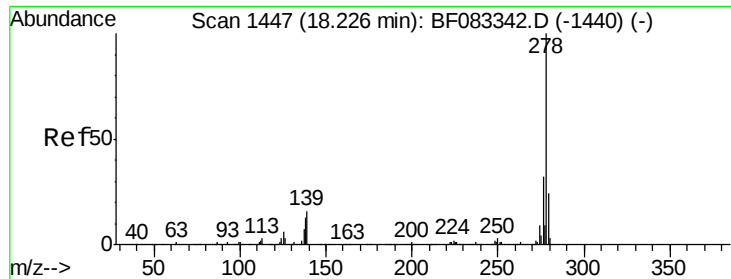
Tot Ion:252 Resp: 529549
Ion Ratio Lower Upper
252 100
253 21.7 17.4 26.0
125 11.9 7.5 11.3#



#89
Benzo(a)pyrene
Concen: 43.69 ng
RT: 16.72 min Scan# 1315
Delta R.T. 0.01 min
Lab File: BF083461.D
Acq: 3 Dec 2015 15:39

Tgt Ion:252 Resp: 909166
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 10.2 7.8 11.8





#90

Dibenzo(a,h)anthracene

Concen: 10.82 ng

RT: 18.18 min Scan# 1443

Delta R.T. -0.00 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Instrument :

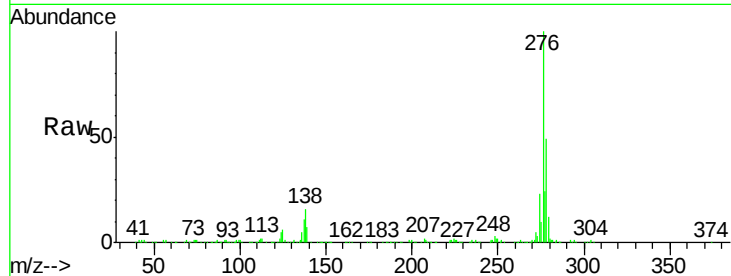
BNA_F

ClientSampleId :

SB-P3WC-13(0-8)

Tot Ion:278 Resp: 196188

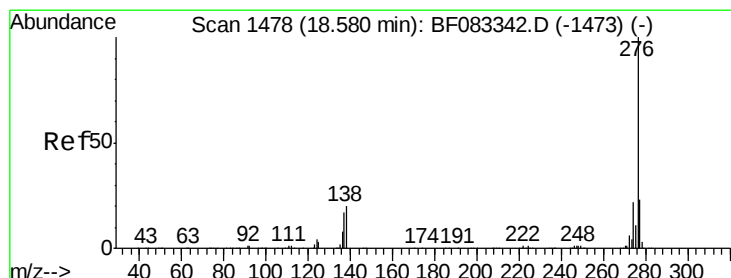
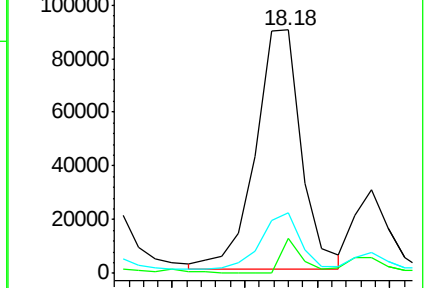
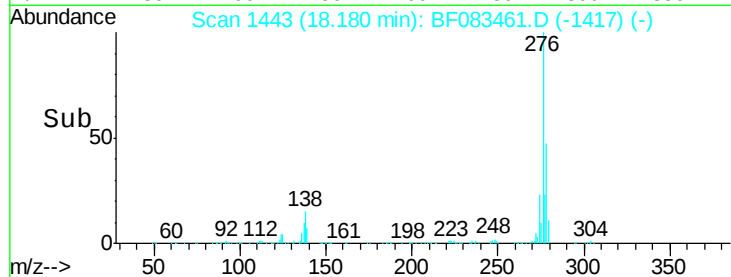
Ion	Ratio	Lower	Upper
278	100		
139	14.5	13.1	19.7
279	24.9	19.2	28.8



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: 55.12 ng

RT: 18.55 min Scan# 1475

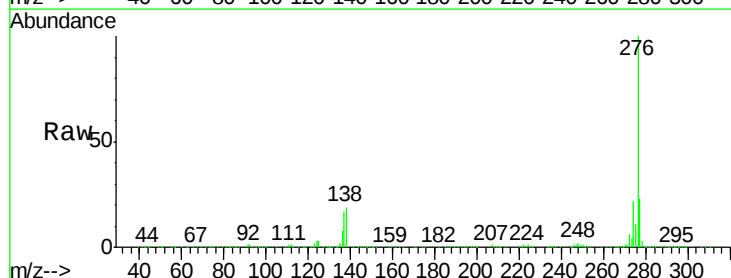
Delta R.T. 0.01 min

Lab File: BF083461.D

Acq: 3 Dec 2015 15:39

Tgt Ion:276 Resp: 980957

Ion	Ratio	Lower	Upper
276	100		
277	22.6	18.6	28.0
138	19.2	16.1	24.1



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

