

Data Path : Z:\HPCHEM1\BNA F\Data\BF100515\
 Data File : BF082058.D
 Acq On : 5 Oct 2015 21:59
 Operator : UM/IZ
 Sample : G3866-01DL2 4X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E5WC-1(6-12)DL

Quant Time: Oct 06 01:30:54 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 05 17:58:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.04	152	97483	20.00	ng	0.16
21) Naphthalene-d8	8.17	136	401449	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	168495	20.00	ng	-0.01
63) Phenanthrene-d10	11.42	188	315223	20.00	ng	0.00
75) Chrysene-d12	14.06	240	220944	20.00	ng	0.00
86) Perylene-d12	15.51	264	215261	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	185232	34.49	ng	-0.01
7) Phenol-d6	6.50	99	264194	39.10	ng	-0.01
23) Nitrobenzene-d5	7.45	82	143989	23.91	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	56905	33.35	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	284154	24.23	ng	0.00
78) Terphenyl-d14	13.00	244	188844	21.80	ng	-0.01

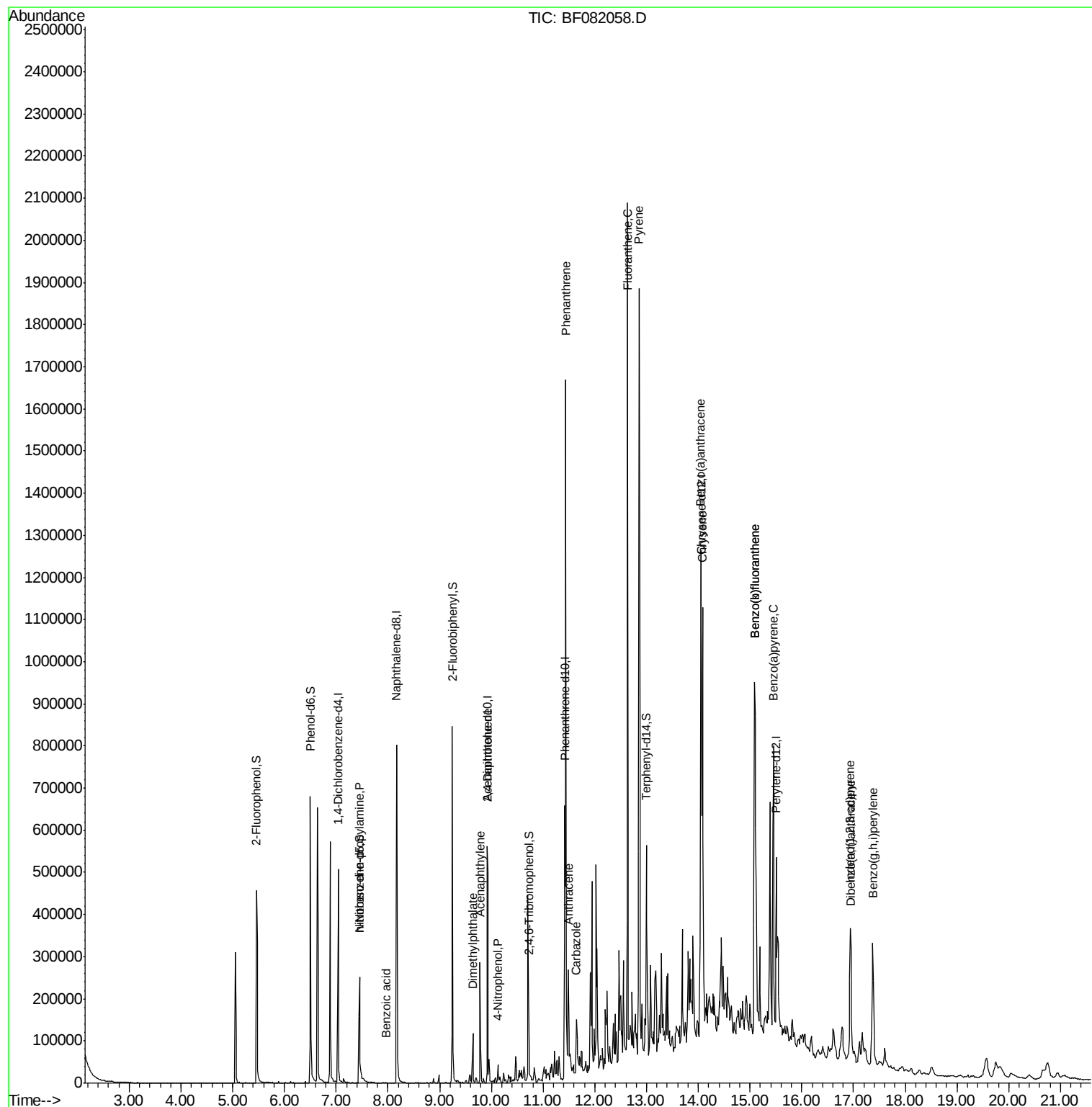
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.45	70	18423	4.49	ng	# 55
32) Benzoic acid	7.97	122	469	7.46	ng	# 9
48) Acenaphthylene	9.78	152	139149	8.52	ng	98
49) Dimethylphthalate	9.65	163	62399	5.37	ng	# 97
55) 4-Nitrophenol	10.13	139	7273	3.45	ng	# 25
56) 2,4-Dinitrotoluene	9.92	165	21582	6.70	ng	# 34
70) Phenanthrene	11.44	178	675334	44.50	ng	97
71) Anthracene	11.49	178	143972	8.99	ng	99
72) Carbazole	11.65	167	90582	6.25	ng	96
73) Di-n-butylphthalate	11.98	149	2154	Below Cal		# 57
74) Fluoranthene	12.63	202	905236	53.61	ng	91
77) Pvrene	12.86	202	884913	67.04	ng	96
80) Benzo(a)anthracene	14.05	228	536916	45.13	ng	# 88
82) Chrysene	14.08	228	422746	37.58	ng	93
85) Indeno(1,2,3-cd)pyrene	16.94	276	243949	26.21	ng	# 83
87) Benzo(b)fluoranthene	15.09	252	741344	60.32	ng	# 88
88) Benzo(k)fluoranthene	15.09	252	741344	65.81	ng	# 88
89) Benzo(a)pyrene	15.45	252	388367	36.43	ng	# 82
90) Dibenzo(a,h)anthracene	16.95	278	60597	6.77	ng	# 79
91) Benzo(a,h,i)perylene	17.37	276	254199	27.73	ng	# 76

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

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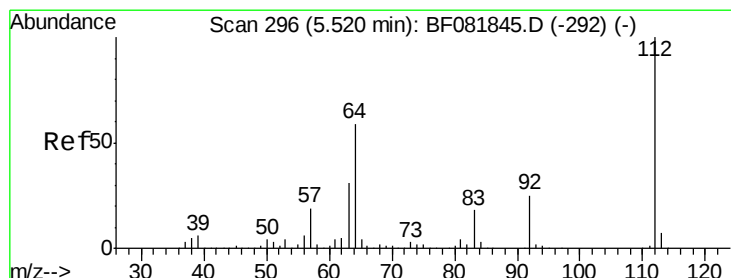
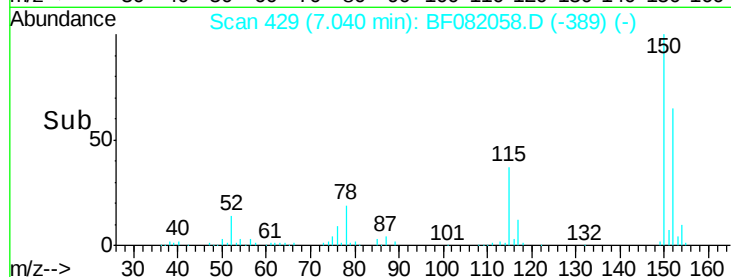
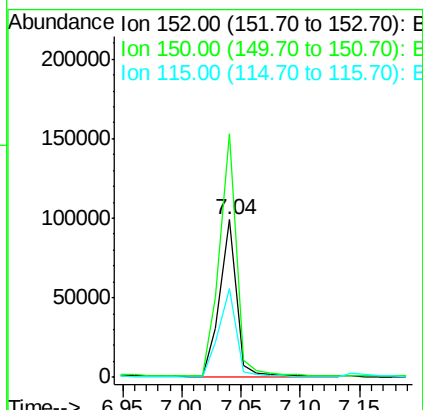
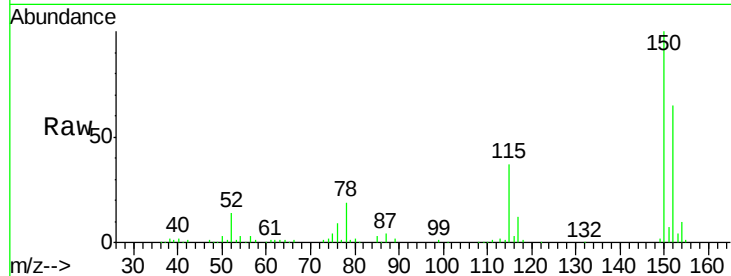


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.04 min Scan# 429
Delta R.T. 0.16 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

Instrument :
BNA_F
ClientSampleId :
E5WC-1(6-12)DL

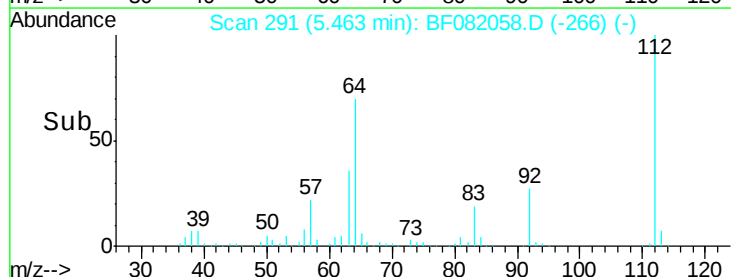
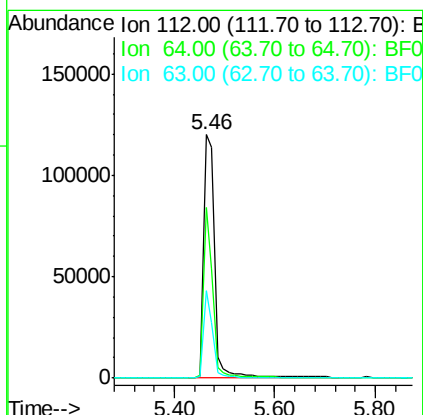
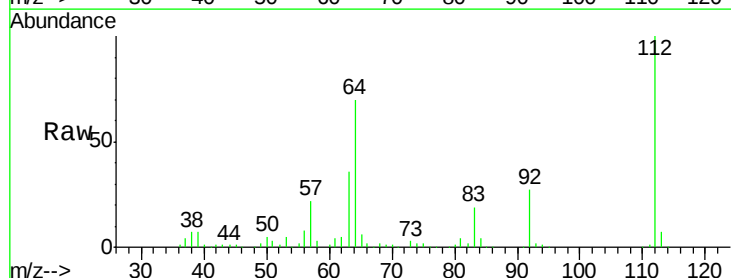
Tot Ion:152 Resp: 97483
Ion Ratio Lower Upper
152 100
150 154.3 124.7 187.1
115 56.3 39.0 58.4

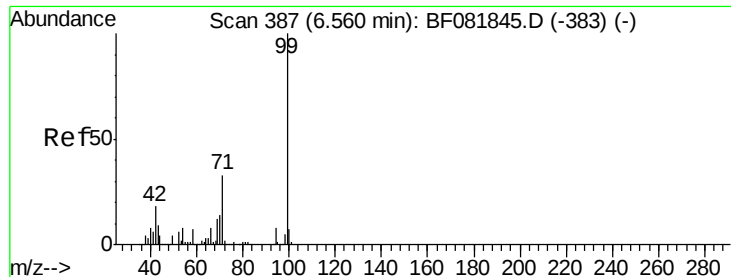


#5

2-Fluorophenol
Concen: 34.49 ng
RT: 5.46 min Scan# 291
Delta R.T. -0.01 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

Tgt Ion:112 Resp: 185232
Ion Ratio Lower Upper
112 100
64 70.1 39.7 59.5#
63 36.1 17.4 26.0#





#7

Phenol-d6

Concen: 39.10 ng

RT: 6.50 min Scan# 382

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

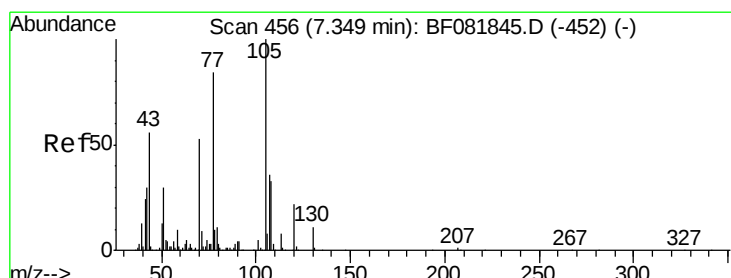
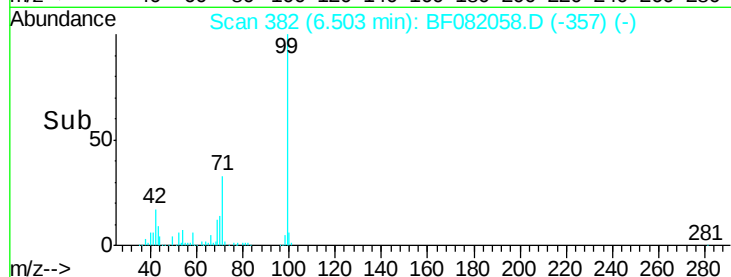
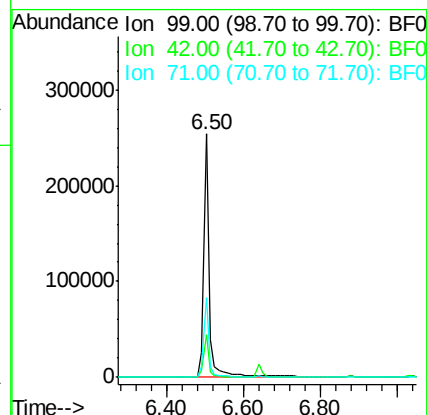
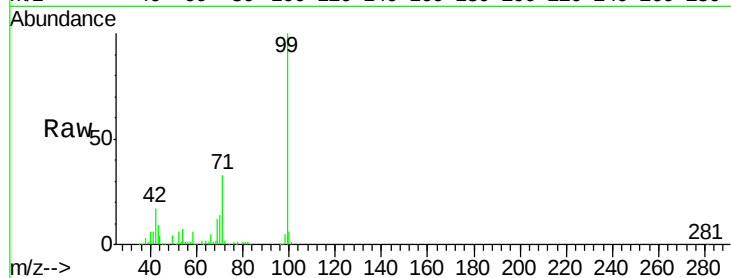
Tot Ion: 99 Resp: 264194

Ion Ratio Lower Upper

99 100

42 17.5 13.7 20.5

71 32.6 14.2 21.2#



#19

n-Nitroso-di-n-propylamine

Concen: 4.49 ng

RT: 7.45 min Scan# 465

Delta R.T. 0.15 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Tgt Ion: 70 Resp: 18423

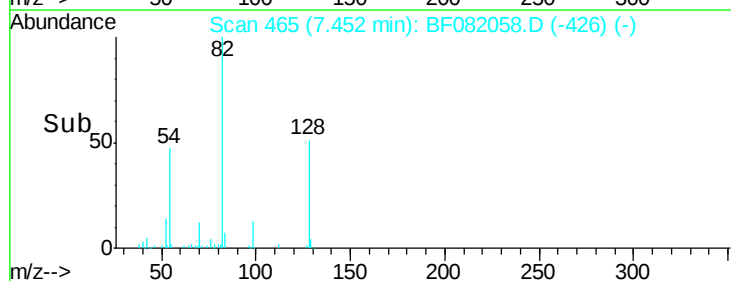
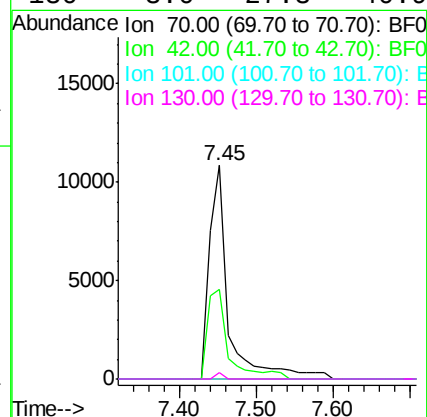
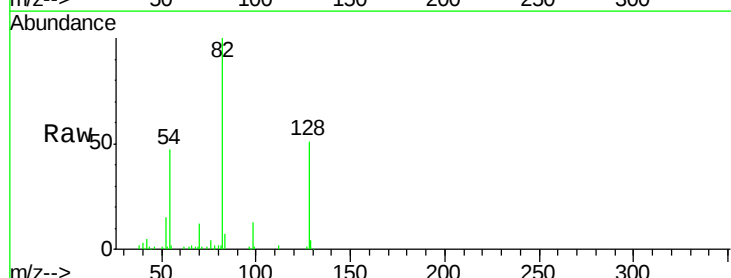
Ion Ratio Lower Upper

70 100

42 42.2 63.8 95.6#

101 0.0 9.2 13.8#

130 3.0 27.3 40.9#

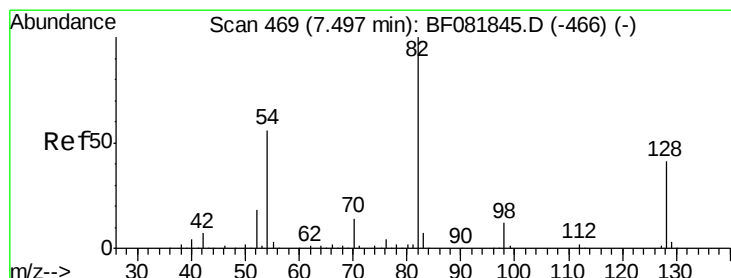
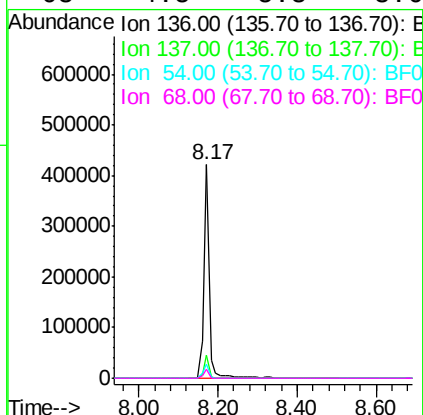
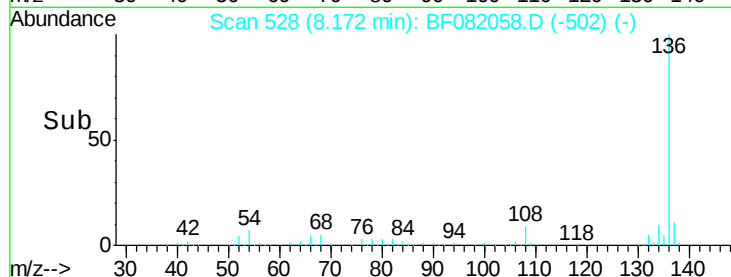
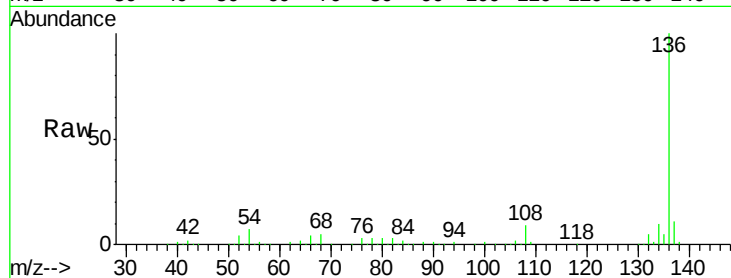




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.17 min Scan# 528
Delta R.T. -0.00 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

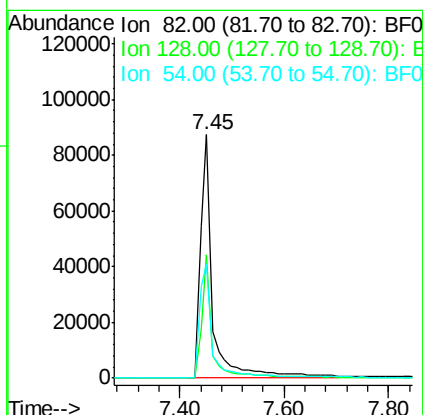
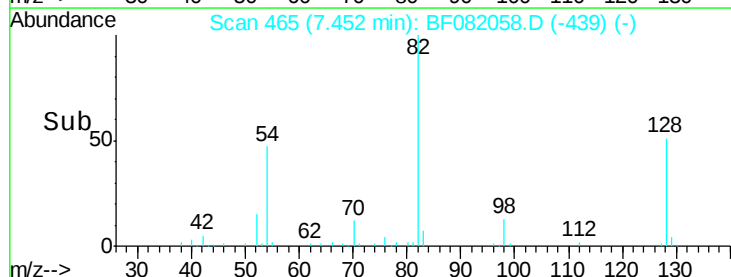
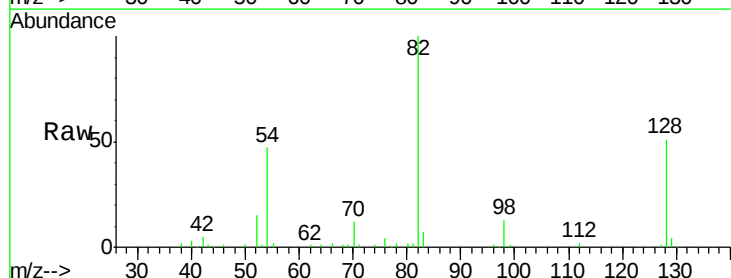
Instrument :
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E5WC-1(6-12)DL

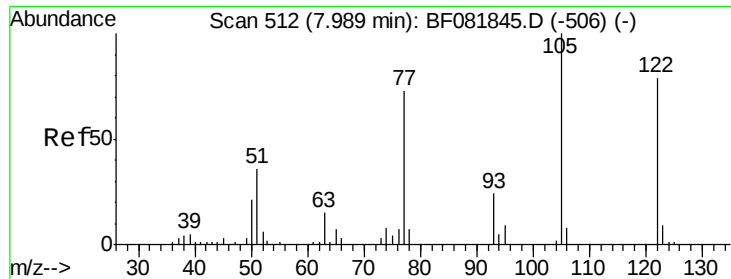
Tot Ion:136	Resp:	401449
Ion Ratio	Lower	Upper
136	100	
137	11.0	9.0 13.6
54	6.8	8.2 12.2#
68	4.5	5.8 8.6#



#23
Nitrobenzene-d5
Concen: 23.91 ng
RT: 7.45 min Scan# 465
Delta R.T. -0.00 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

Tgt Ion: 82	Resp:	143989
Ion Ratio	Lower	Upper
82	100	
128	50.9	51.0 76.6#
54	47.2	47.5 71.3#





#32

Benzoic acid

Concen: 7.46 ng

RT: 7.97 min Scan# 510

Delta R.T. 0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

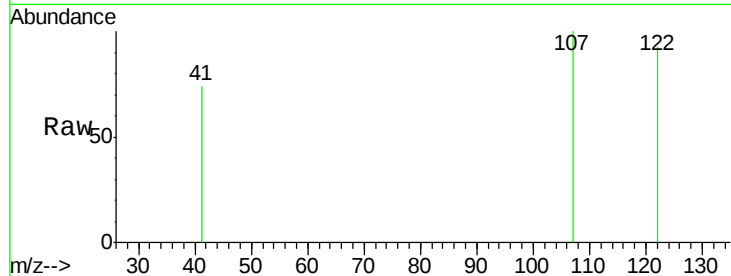
Tot Ion:122 Resp: 469

Ion Ratio Lower Upper

122 100

105 0.0 76.1 116.1#

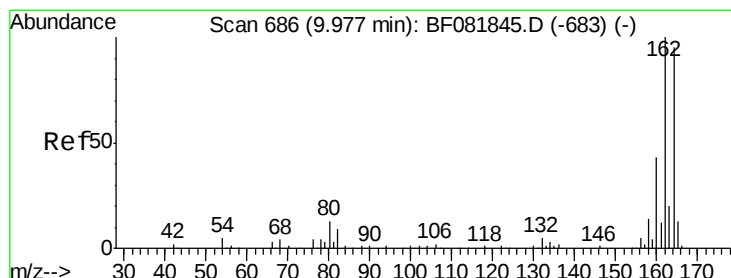
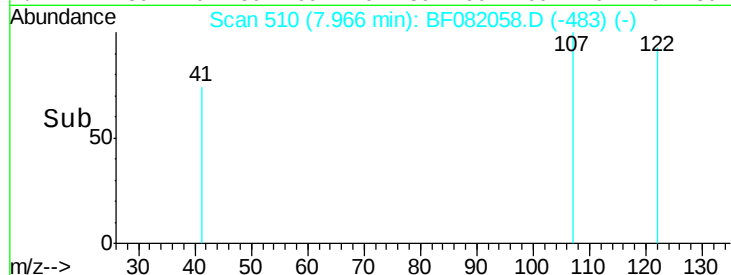
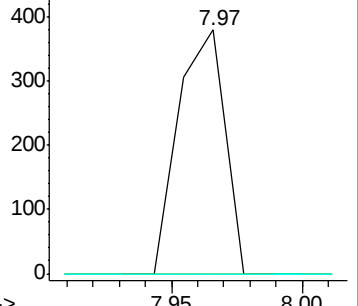
77 0.0 40.5 80.5#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

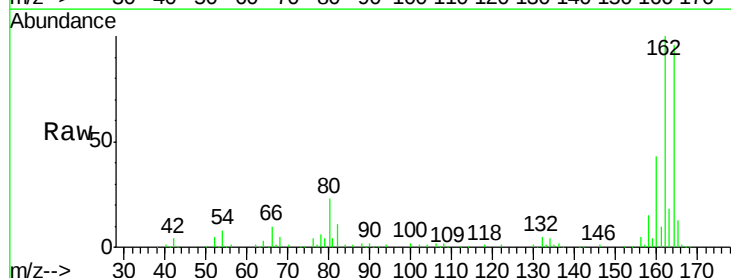
Tgt Ion:164 Resp: 168495

Ion Ratio Lower Upper

164 100

162 103.7 75.2 112.8

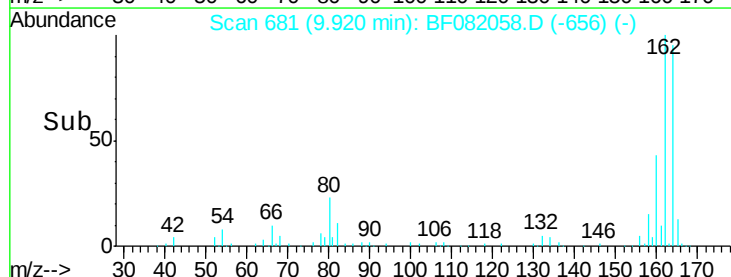
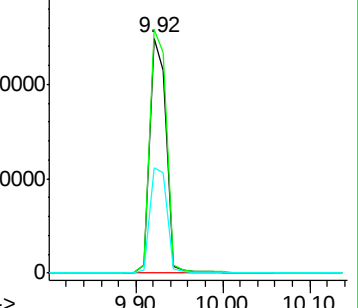
160 44.8 31.5 47.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

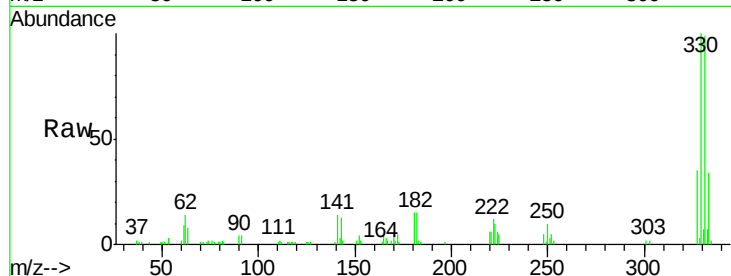




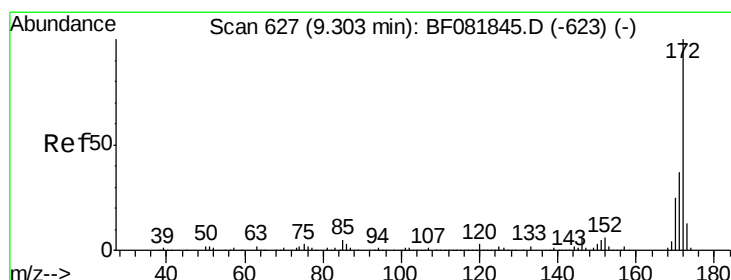
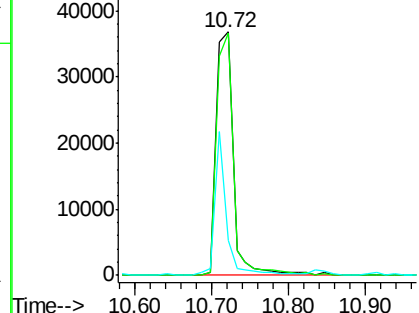
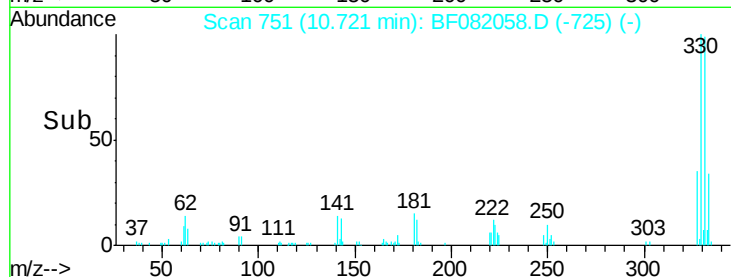
#41
 2,4,6-Tribromophenol
 Concen: 33.35 ng
 RT: 10.72 min Scan# 751
 Delta R.T. -0.00 min
 Lab File: BF082058.D
 Acq: 5 Oct 2015 21:59

Instrument :
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 ClientSampleId :
 E5WC-1(6-12)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	114.8
141	39.3	29.7	44.5

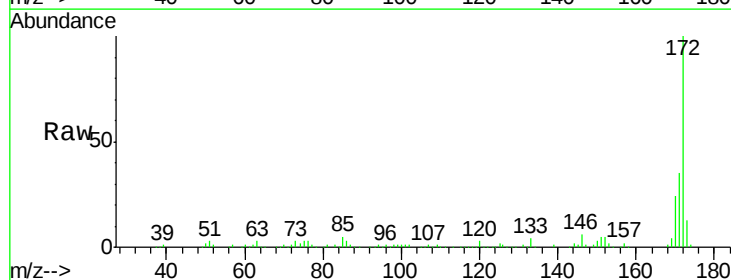


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

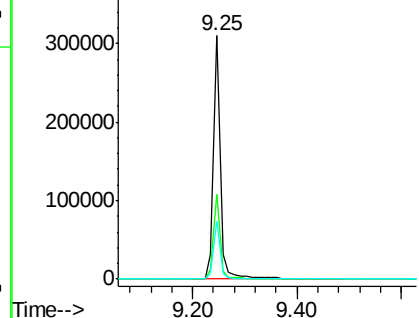
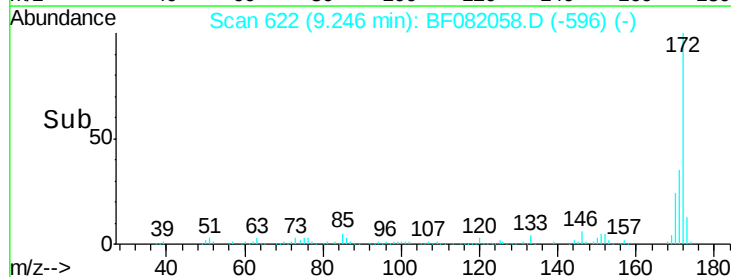


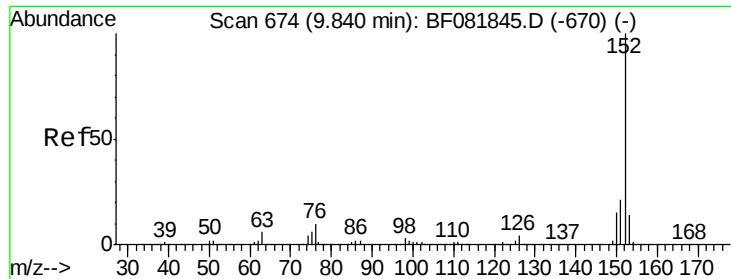
#44
 2-Fluorobiphenyl
 Concen: 24.23 ng
 RT: 9.25 min Scan# 622
 Delta R.T. -0.00 min
 Lab File: BF082058.D
 Acq: 5 Oct 2015 21:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	26.1	39.1
170	23.7	17.4	26.2



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: 8.52 ng

RT: 9.78 min Scan# 669

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

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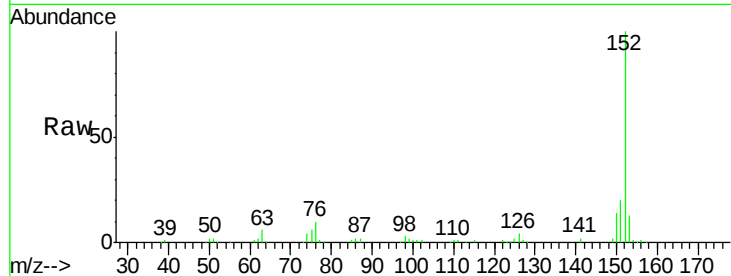
Tot Ion:152 Resp: 139149

Ion Ratio Lower Upper

152 100

151 19.8 14.6 22.0

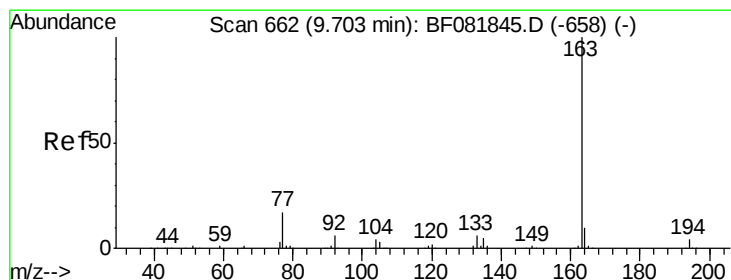
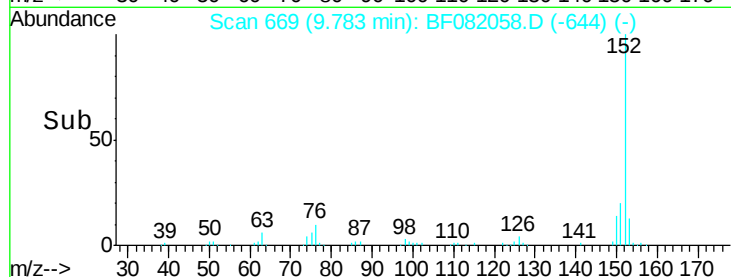
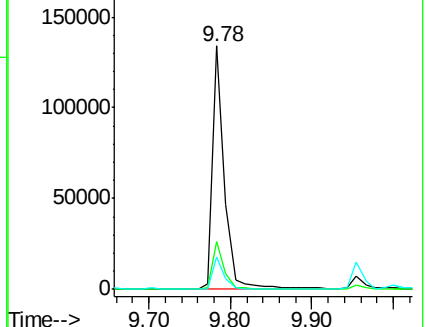
153 13.3 10.3 15.5



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: 5.37 ng

RT: 9.65 min Scan# 657

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

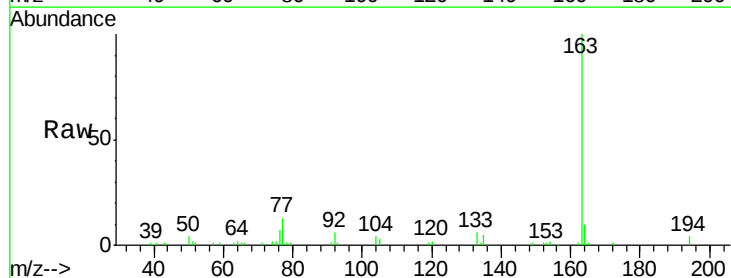
Tgt Ion:163 Resp: 62399

Ion Ratio Lower Upper

163 100

194 3.9 4.4 6.6#

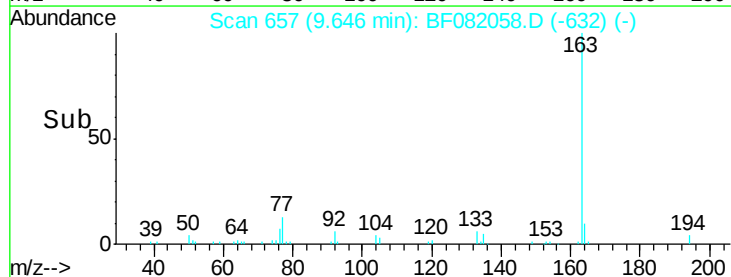
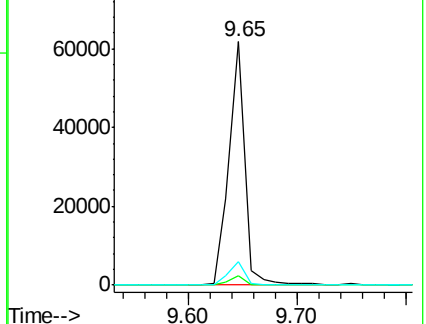
164 9.7 8.3 12.5

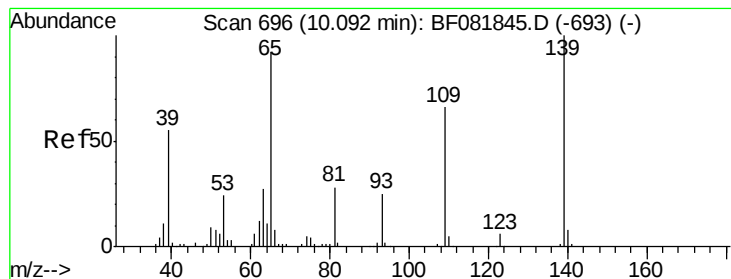


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#55

4-Nitrophenol

Concen: 3.45 ng

RT: 10.13 min Scan# 699

Delta R.T. 0.08 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

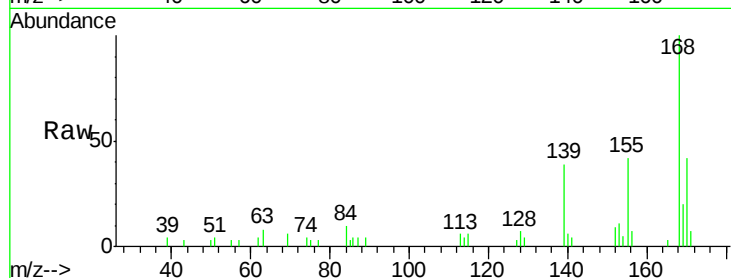
Tot Ion:139 Resp: 7273

Ion Ratio Lower Upper

139 100

109 0.0 12.7 52.7#

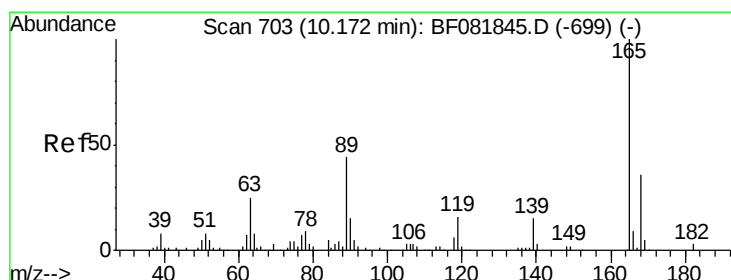
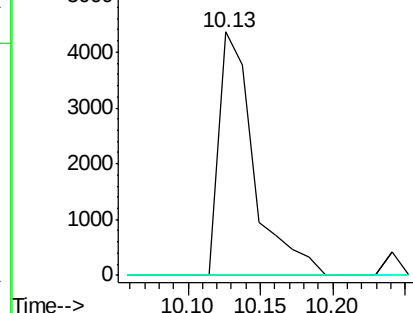
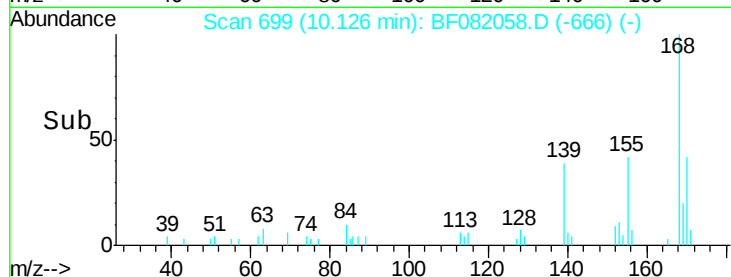
65 0.0 45.9 85.9#



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



#56

2,4-Dinitrotoluene

Concen: 6.70 ng

RT: 9.92 min Scan# 681

Delta R.T. -0.21 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Tgt Ion:165 Resp: 21582

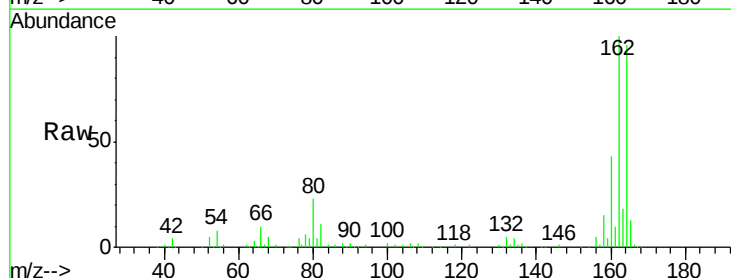
Ion Ratio Lower Upper

165 100

63 1.9 29.8 44.6#

89 2.0 44.5 66.7#

182 0.0 3.0 4.4#

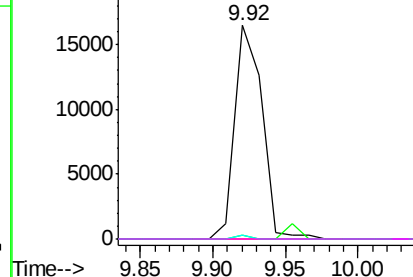
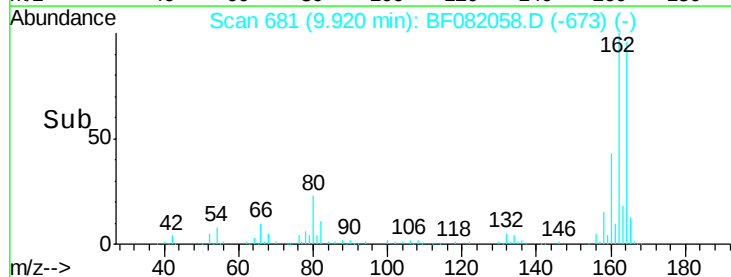


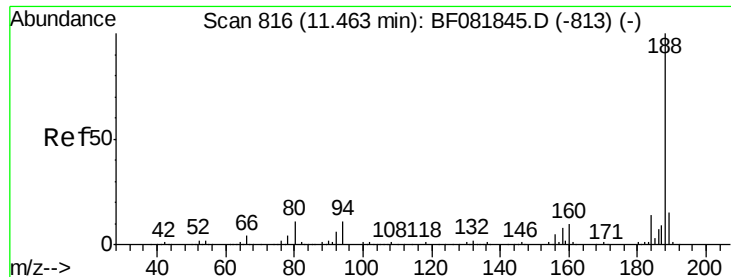
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

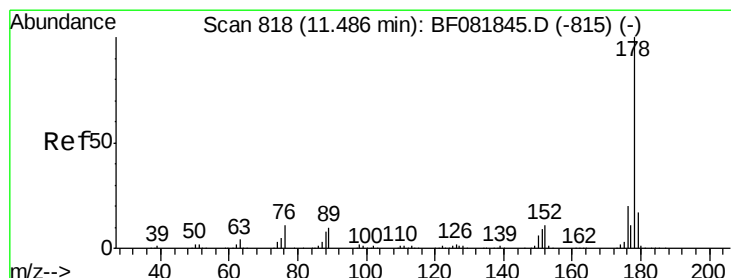
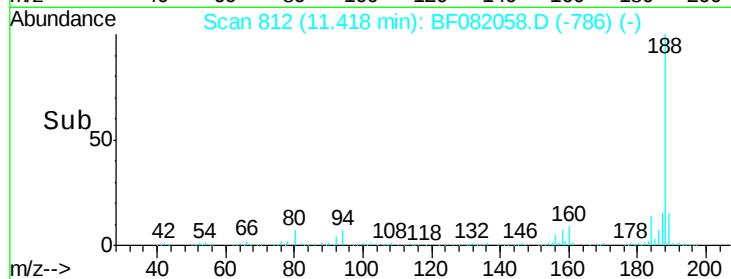
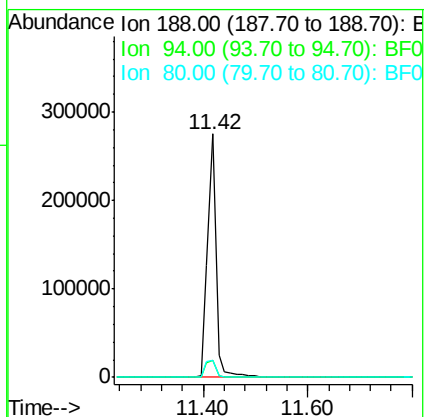
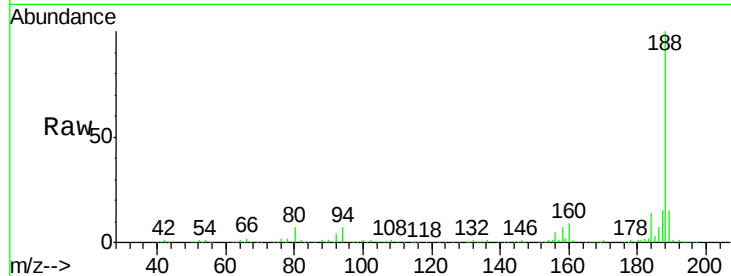




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 812
 Delta R.T. -0.00 min
 Lab File: BF082058.D
 Acq: 5 Oct 2015 21:59

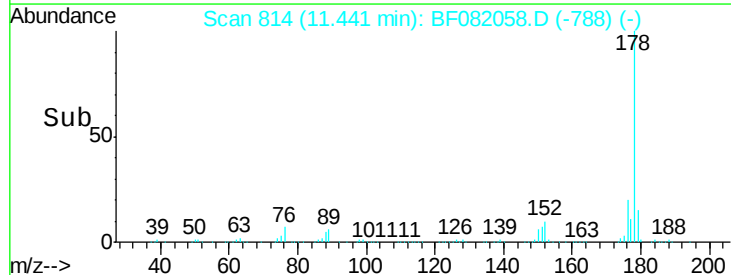
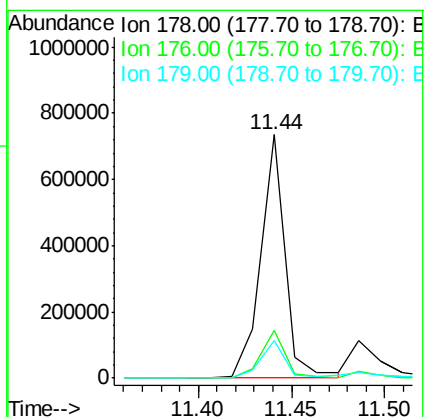
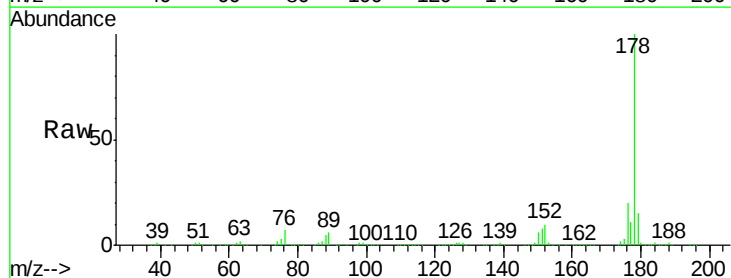
Instrument :
 BNA_F
 ClientSampleId :
 E5WC-1(6-12)DL

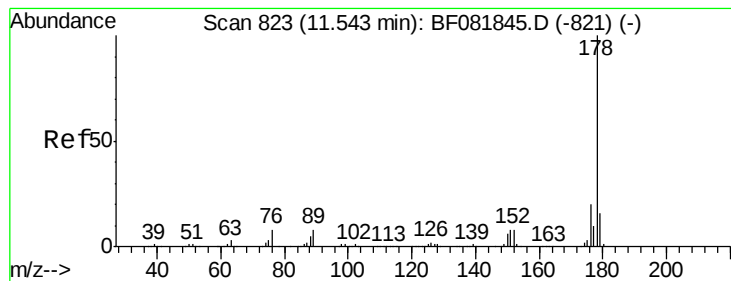
Tot Ion:188 Resp: 315223
 Ion Ratio Lower Upper
 188 100
 94 6.8 11.1 16.7#
 80 7.0 11.0 16.4#



#70
 Phenanthrene
 Concen: 44.50 ng
 RT: 11.44 min Scan# 814
 Delta R.T. -0.00 min
 Lab File: BF082058.D
 Acq: 5 Oct 2015 21:59

Tgt Ion:178 Resp: 675334
 Ion Ratio Lower Upper
 178 100
 176 19.8 13.8 20.8
 179 15.3 12.2 18.2





#71

Anthracene

Concen: 8.99 ng

RT: 11.49 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

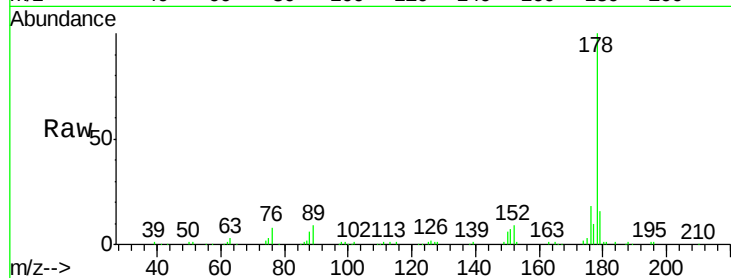
Tot Ion:178 Resp: 143972

Ion Ratio Lower Upper

178 100

176 17.8 14.1 21.1

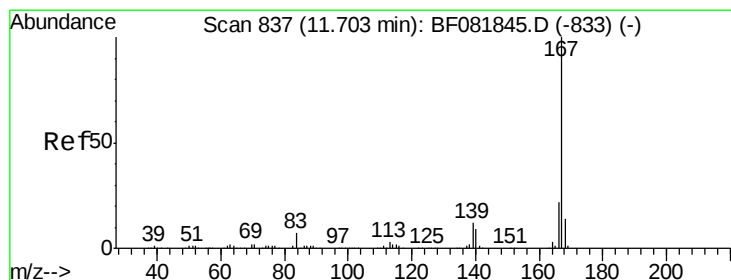
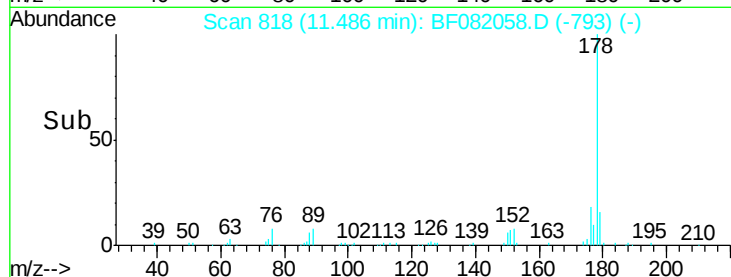
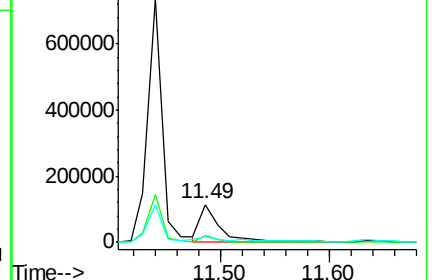
179 16.3 12.2 18.2



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



#72

Carbazole

Concen: 6.25 ng

RT: 11.65 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

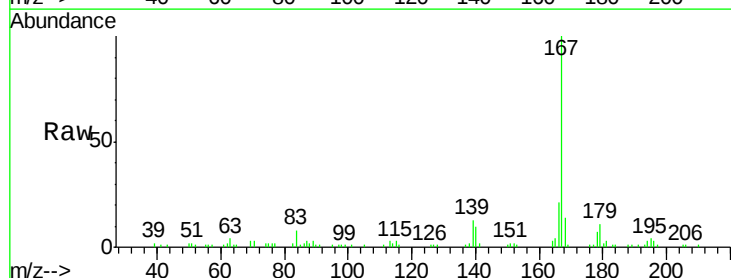
Tgt Ion:167 Resp: 90582

Ion Ratio Lower Upper

167 100

166 21.2 15.7 23.5

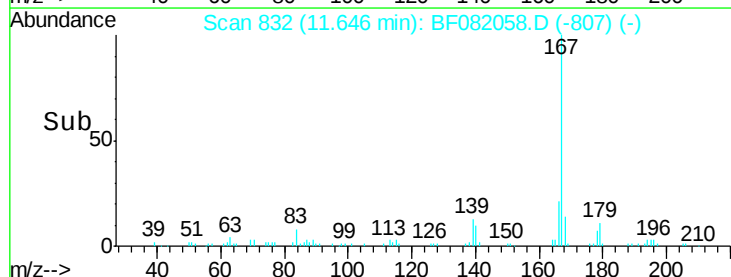
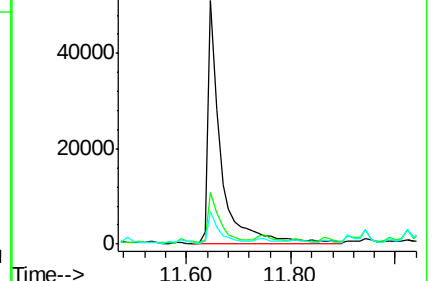
139 13.4 9.5 14.3

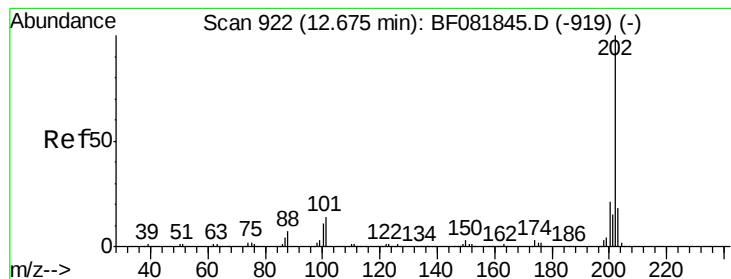


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 53.61 ng

RT: 12.63 min Scan# 918

Delta R.T. -0.00 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

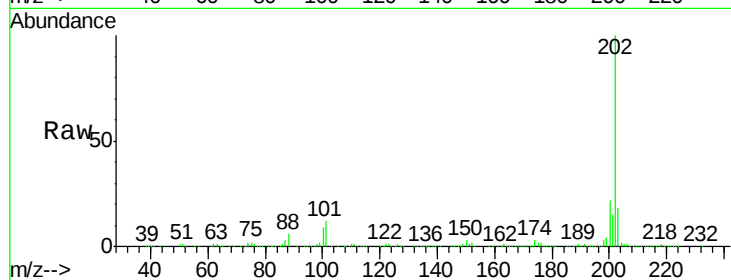
Tot Ion:202 Resp: 905236

Ion Ratio Lower Upper

202 100

101 11.9 0.0 38.3

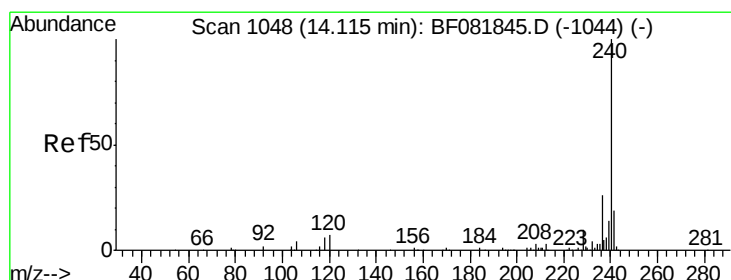
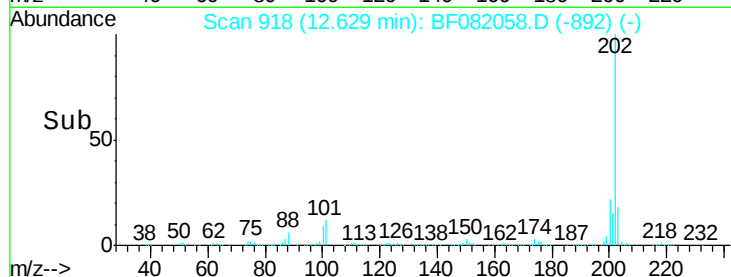
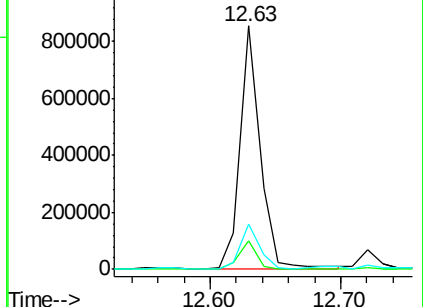
203 18.4 0.0 37.3



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: 14.06 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

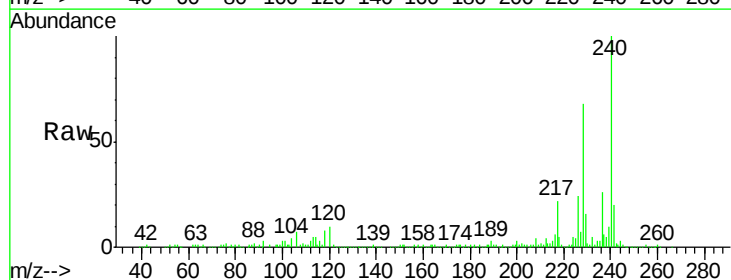
Tgt Ion:240 Resp: 220944

Ion Ratio Lower Upper

240 100

120 9.6 16.2 24.2#

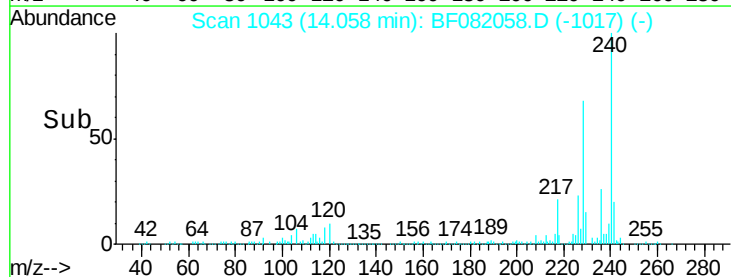
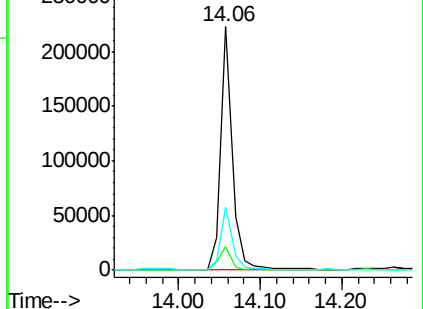
236 26.0 18.4 27.6

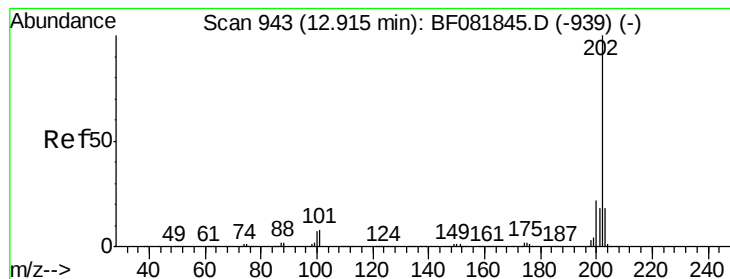


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 67.04 ng

RT: 12.86 min Scan# 938

Delta R.T. -0.00 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

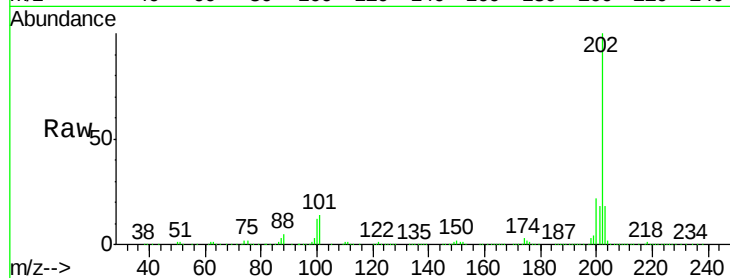
Tot Ion:202 Resp: 884913

Ion Ratio Lower Upper

202 100

200 21.8 15.0 22.4

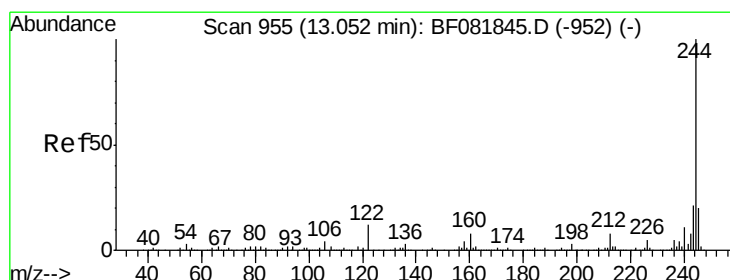
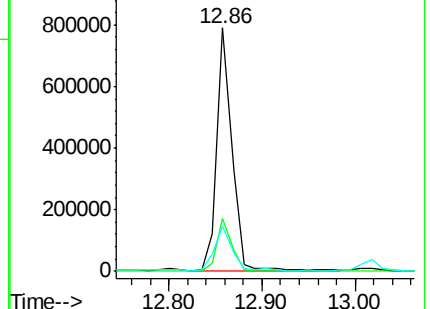
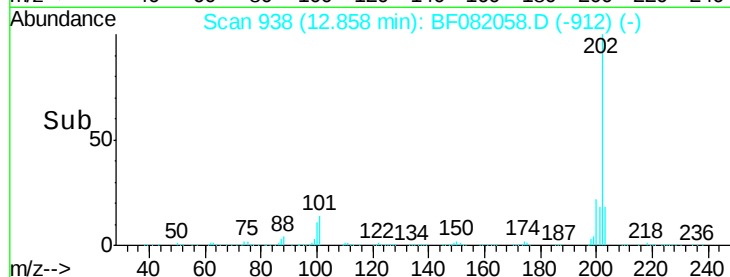
203 18.4 14.1 21.1



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: 21.80 ng

RT: 13.00 min Scan# 950

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

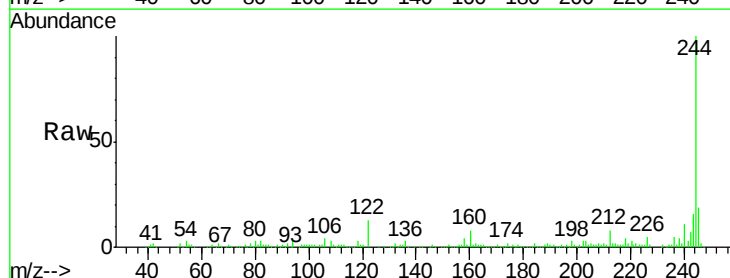
Tgt Ion:244 Resp: 188844

Ion Ratio Lower Upper

244 100

212 7.6 4.3 6.5#

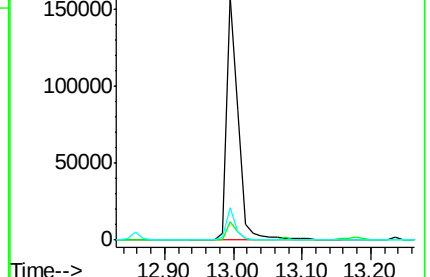
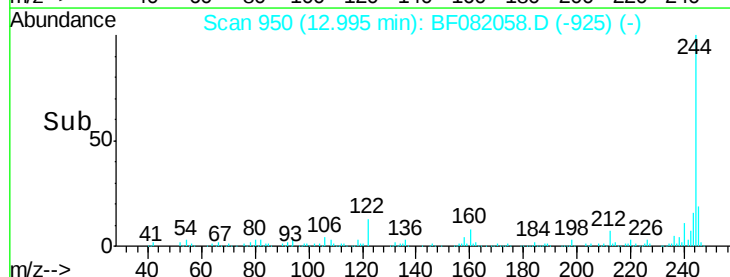
122 13.3 17.4 26.2#

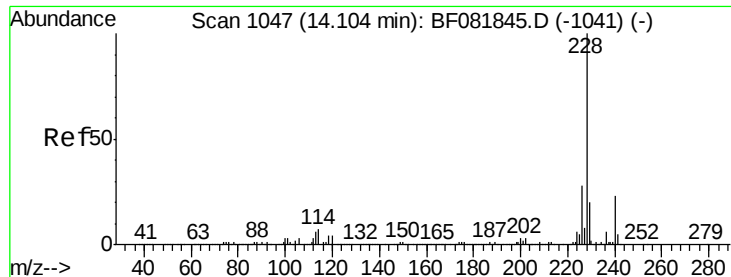


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

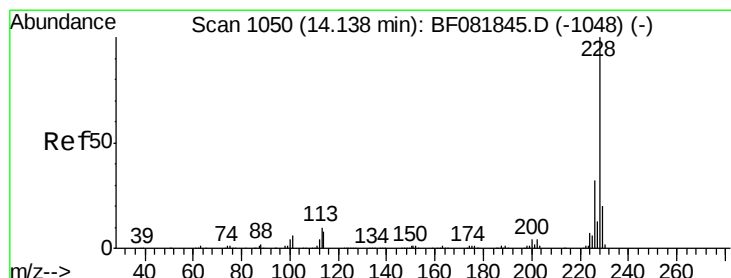
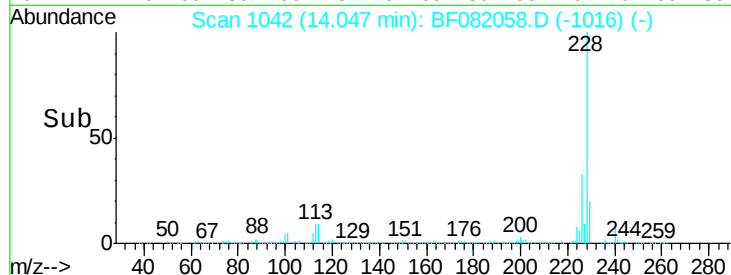
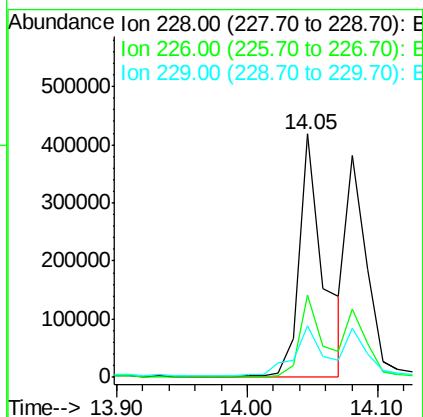
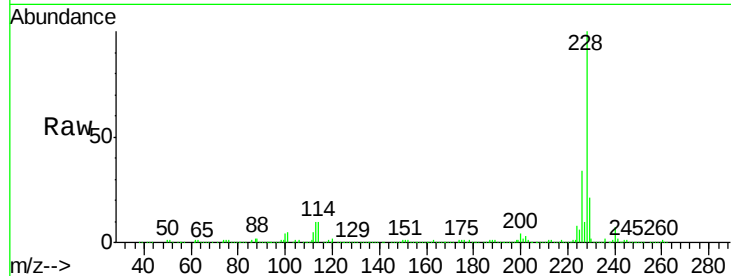




#80
Benzo(a)anthracene
Concen: 45.13 ng
RT: 14.05 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

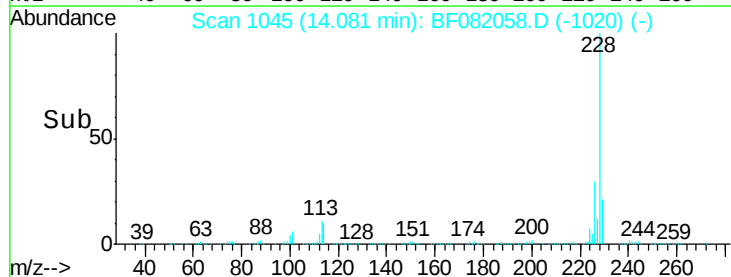
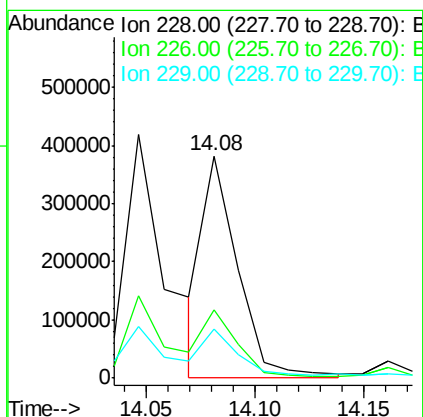
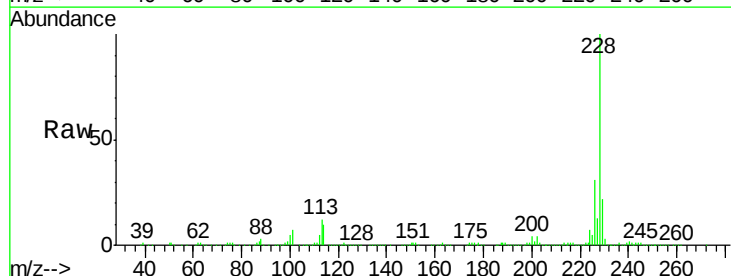
Instrument :
BNA_F
ClientSampleId :
E5WC-1(6-12)DL

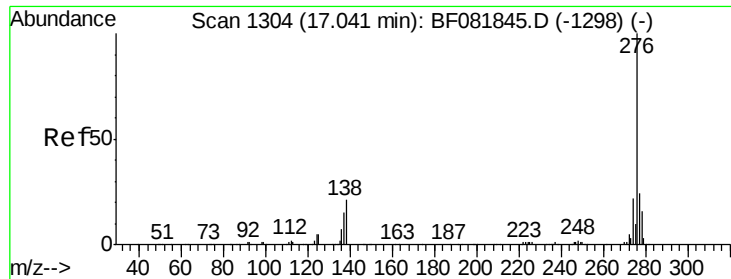
Tot Ion:228 Resp: 536916
Ion Ratio Lower Upper
228 100
226 33.7 20.0 30.0#
229 21.2 15.4 23.2



#82
Chrysene
Concen: 37.58 ng
RT: 14.08 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

Tgt Ion:228 Resp: 422746
Ion Ratio Lower Upper
228 100
226 30.6 21.0 31.4
229 21.9 15.6 23.4

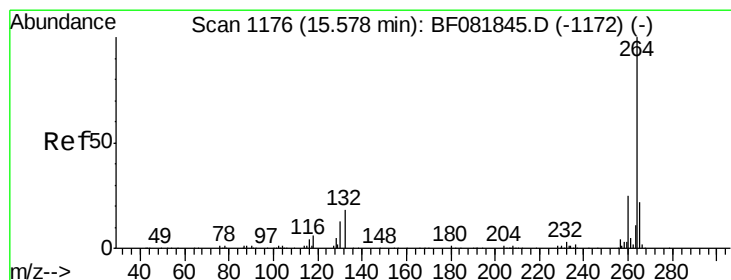
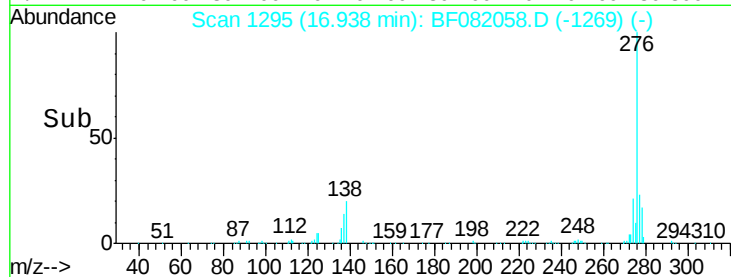
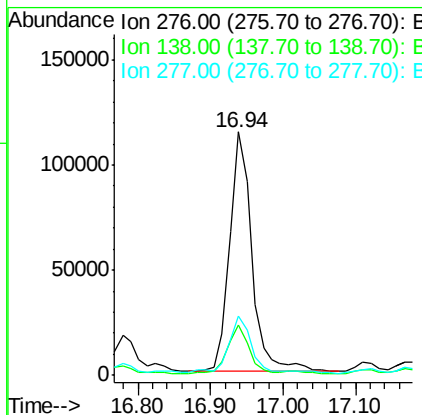
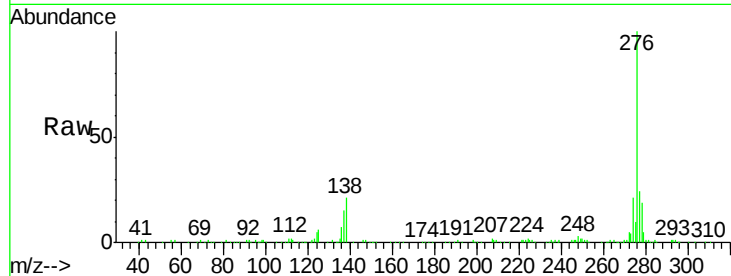




#85
Indeno(1,2,3-cd)pyrene
Concen: 26.21 ng
RT: 16.94 min Scan# 1295
Delta R.T. -0.00 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

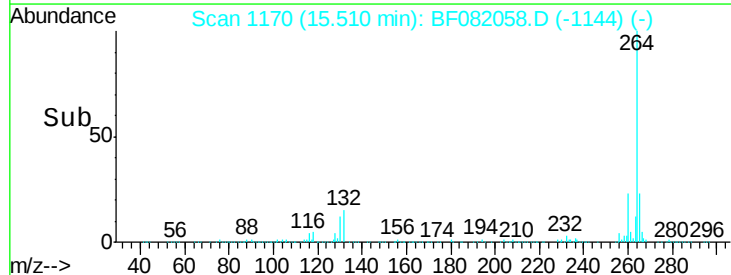
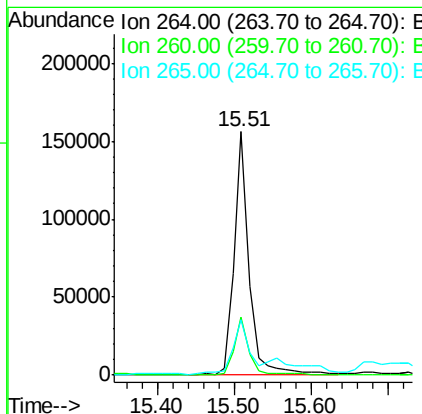
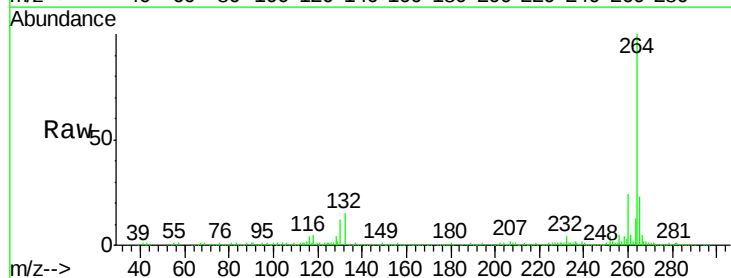
Instrument :
BNA_F
ClientSampleId :
E5WC-1(6-12)DL

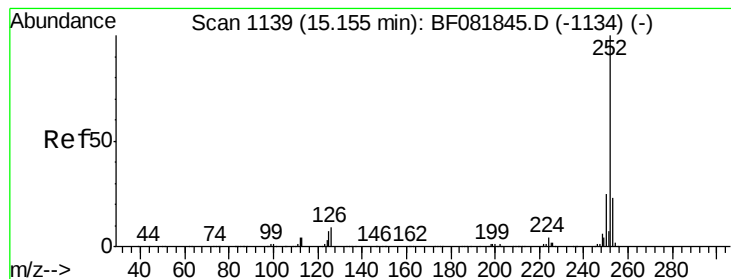
Tot Ion:276 Resp: 243949
Ion Ratio Lower Upper
276 100
138 19.6 25.7 38.5#
277 22.9 15.6 23.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BF082058.D
Acq: 5 Oct 2015 21:59

Tgt Ion:264 Resp: 215261
Ion Ratio Lower Upper
264 100
260 23.6 16.7 25.1
265 23.0 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 60.32 ng

RT: 15.09 min Scan# 1133

Delta R.T. -0.00 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

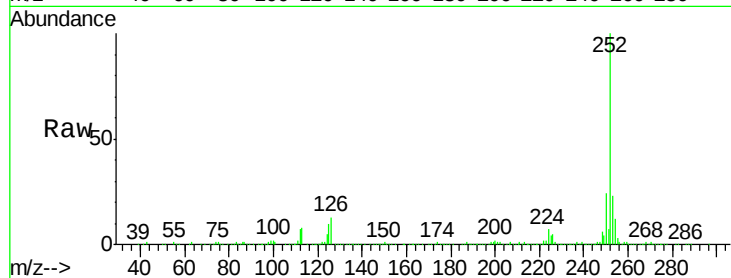
Tot Ion:252 Resp: 741344

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

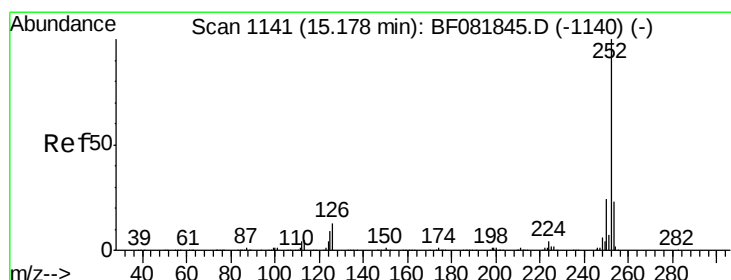
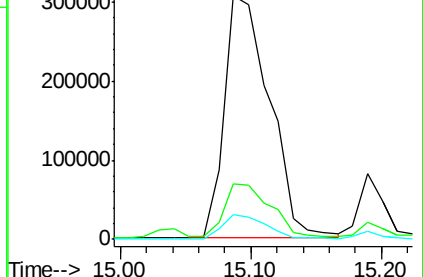
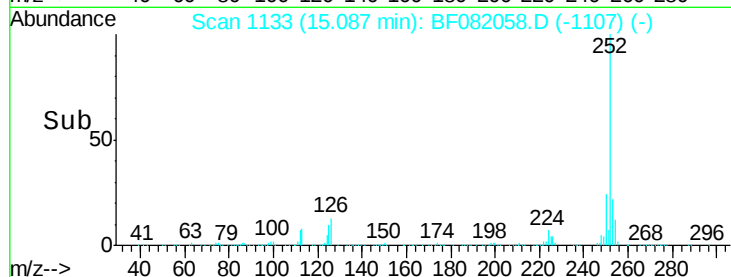
125 10.4 17.1 25.7#



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: 65.81 ng

RT: 15.09 min Scan# 1133

Delta R.T. -0.03 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

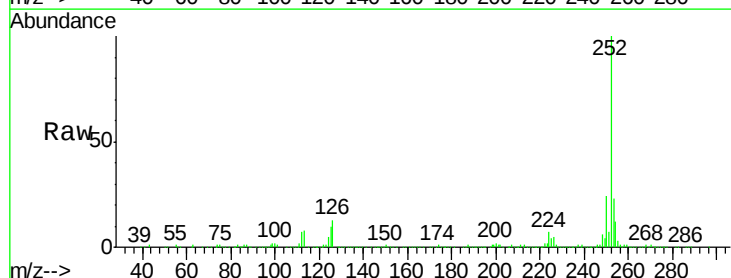
Tgt Ion:252 Resp: 741344

Ion Ratio Lower Upper

252 100

253 22.8 17.0 25.4

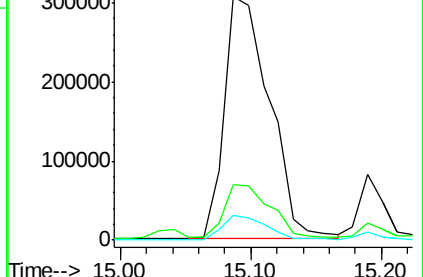
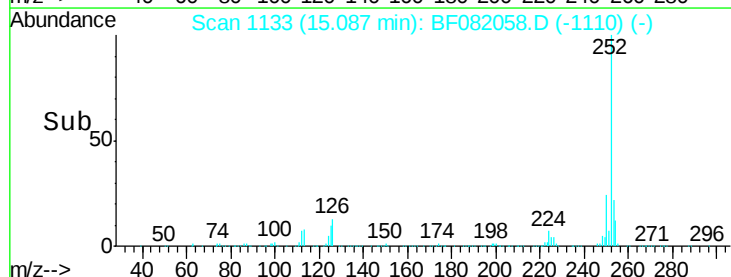
125 10.4 16.0 24.0#

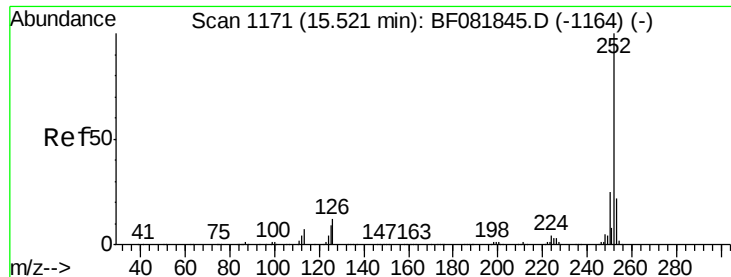


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 36.43 ng

RT: 15.45 min Scan# 1165

Delta R.T. -0.00 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

Instrument :

BNA_F

ClientSampleId :

E5WC-1(6-12)DL

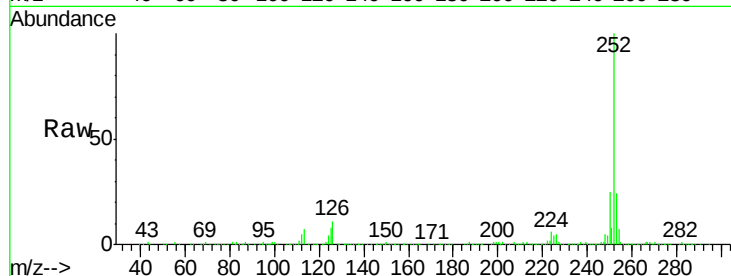
Tot Ion:252 Resp: 388367

Ion Ratio Lower Upper

252 100

253 23.6 17.2 25.8

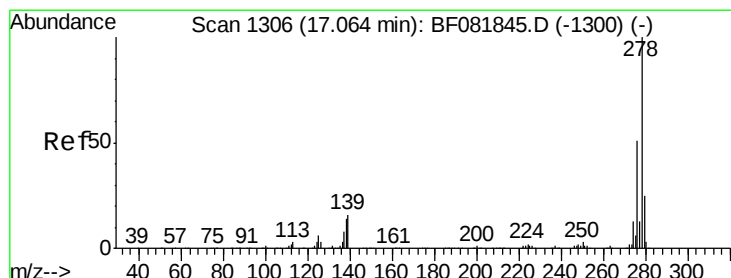
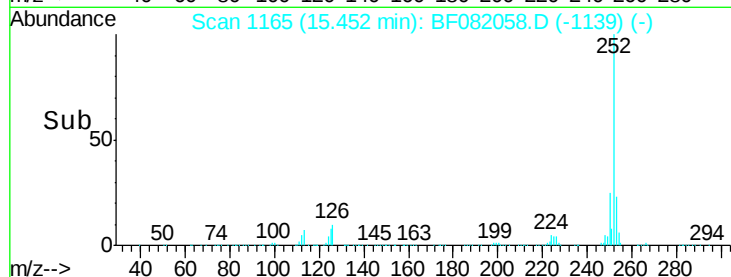
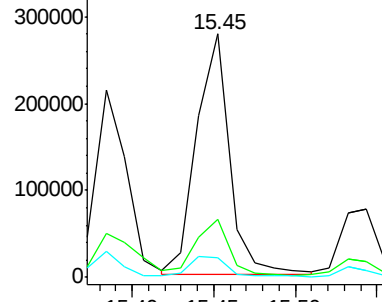
125 8.0 18.0 27.0#



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: 6.77 ng

RT: 16.95 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF082058.D

Acq: 5 Oct 2015 21:59

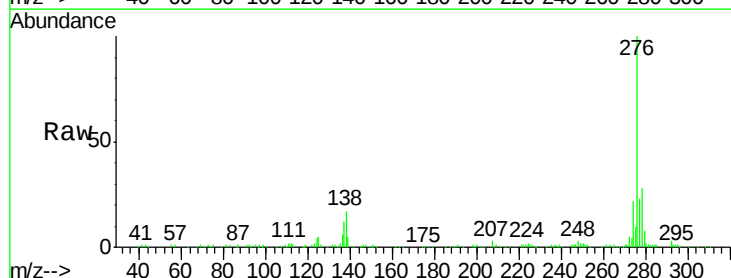
Tgt Ion:278 Resp: 60597

Ion Ratio Lower Upper

278 100

139 16.6 26.3 39.5#

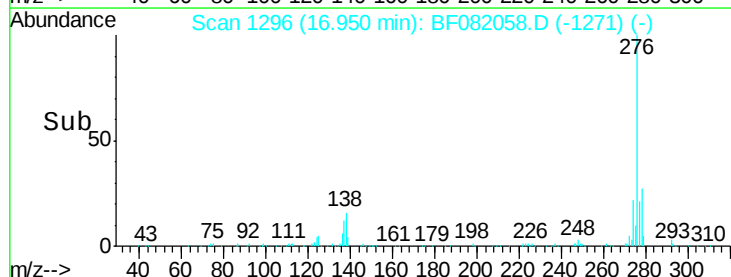
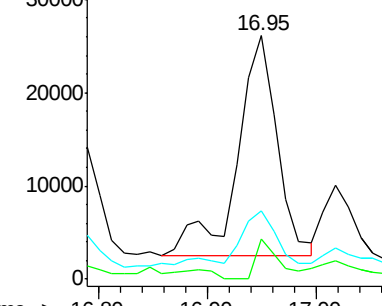
279 27.9 18.2 27.4#

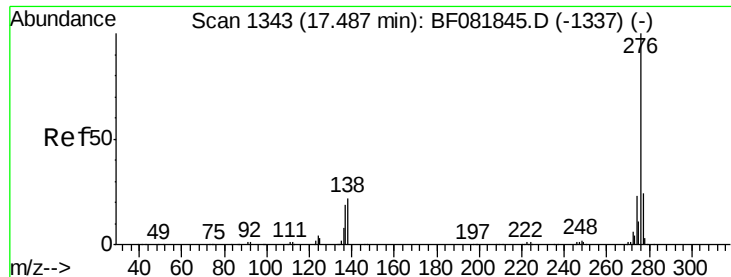


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

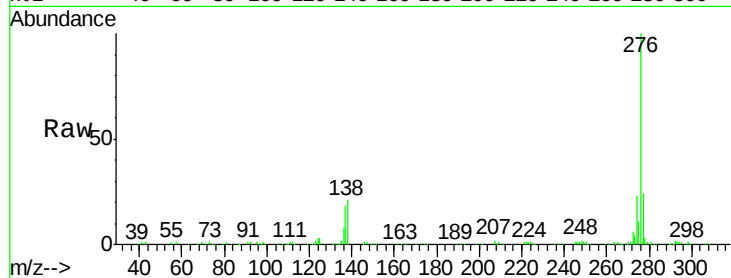




#91
 Benzo(a,h,i)perylene
 Concen: 27.73 ng
 RT: 17.37 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: BF082058.D
 Acq: 5 Oct 2015 21:59

Instrument :
 BNA_F
 ClientSampleId :
 E5WC-1(6-12)DL

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	23.5	17.8	26.6	
138	20.8	34.6	51.8	



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

