

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092116\
 Data File : BF090156.D
 Acq On : 21 Sep 2016 12:38
 Operator : UM/SJ
 Sample : H4850-02DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALLDL

Quant Time: Sep 21 13:58:46 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

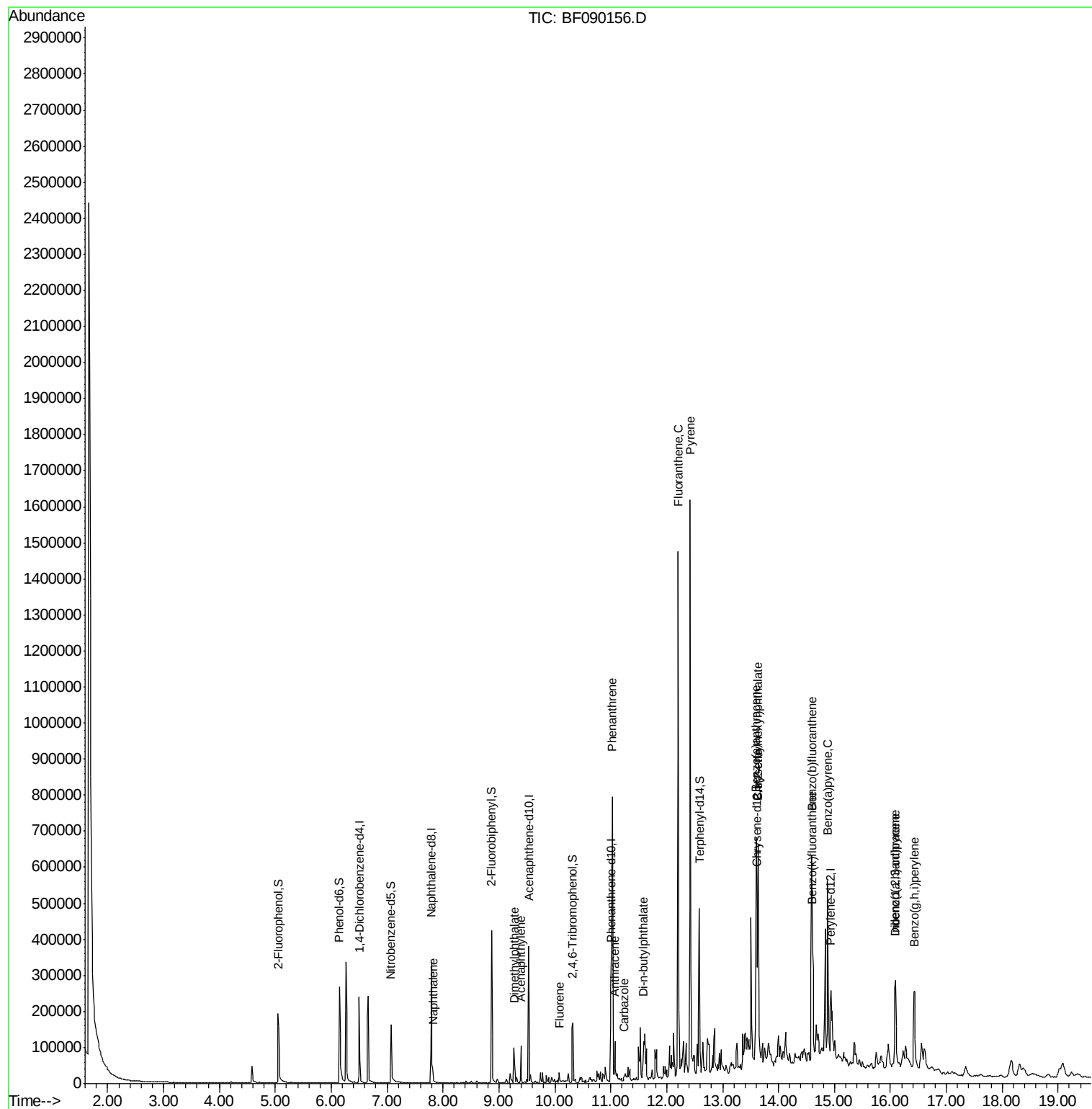
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	42753	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	175945	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	83873	20.00	ng	-0.02
63) Phenanthrene-d10	11.00	188	130402	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	95671	20.00	ng	-0.02
86) Perylene-d12	14.94	264	93272	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	106994	40.79	ng	-0.02
7) Phenol-d6	6.15	99	161156	49.75	ng	-0.02
23) Nitrobenzene-d5	7.07	82	81604	26.89	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	29107	40.45	ng	-0.02
44) 2-Fluorobiphenyl	8.87	172	158250	37.04	ng	-0.02
78) Terphenyl-d14	12.58	244	140176	37.20	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.82	128	18783	2.24	ng	97
48) Acenaphthylene	9.39	152	45552	6.34	ng	98
49) Dimethylphthalate	9.27	163	51039	9.55	ng	98
57) Fluorene	10.08	166	11282	2.67	ng	# 96
70) Phenanthrene	11.03	178	359073	58.88	ng	98
71) Anthracene	11.07	178	56815	8.88	ng	98
72) Carbazole	11.24	167	13685	2.02	ng	98
73) Di-n-butylphthalate	11.59	149	52774	6.71	ng	98
74) Fluoranthene	12.21	202	731819	111.79	ng	94
77) Pyrene	12.42	202	630462	96.30	ng	98
80) Benzo(a)anthracene	13.60	228	201281m	39.11	ng	
82) Chrysene	13.63	228	240581m	47.98	ng	
83) Bis(2-ethylhexyl)phthalate	13.63	149	16119	3.93	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.09	276	165115	40.73	ng	93
87) Benzo(b)fluoranthene	14.59	252	275728m	53.39	ng	
88) Benzo(k)fluoranthene	14.61	252	97331m	20.08	ng	
89) Benzo(a)pyrene	14.88	252	203480	41.88	ng	# 90
90) Dibenzo(a,h)anthracene	16.09	278	34419	9.08	ng	# 73
91) Benzo(a,h,i)perylene	16.43	276	173185	46.67	ng	95

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

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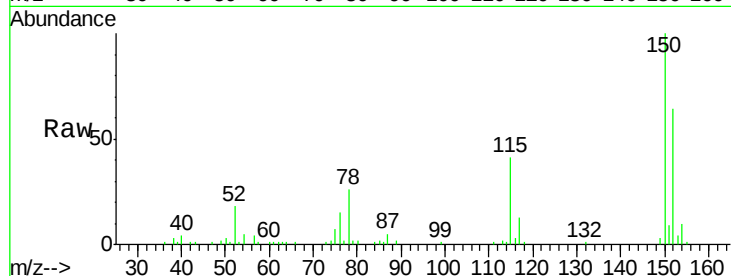


#1

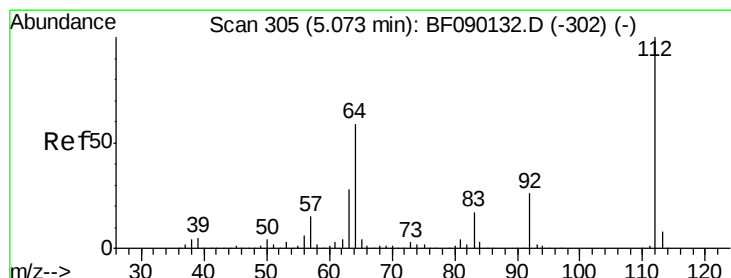
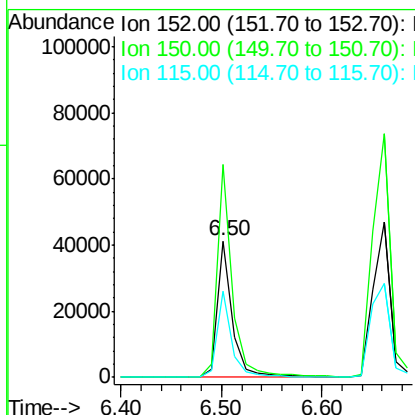
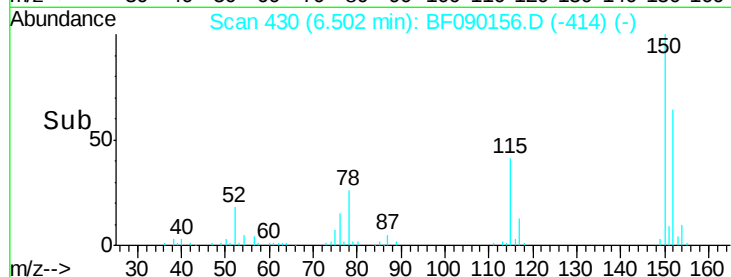
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.50 min Scan# 430
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALLDL

Tot Ion:152 Resp: 42753
Ion Ratio Lower Upper
152 100
150 156.4 128.9 193.3
115 63.4 55.5 83.3



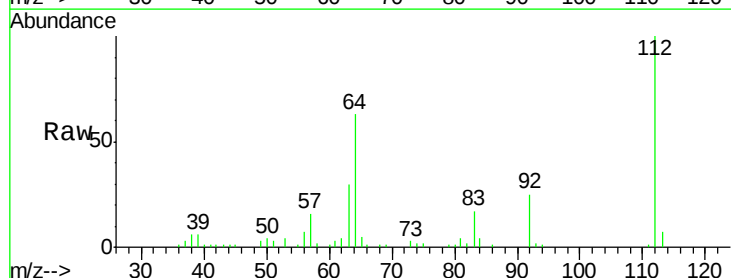
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



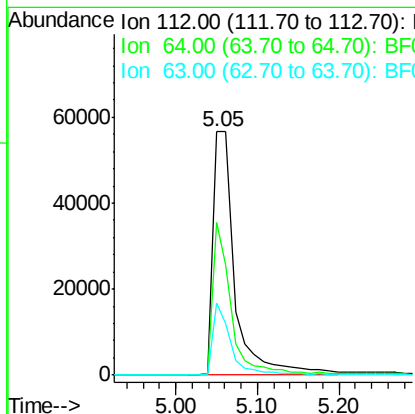
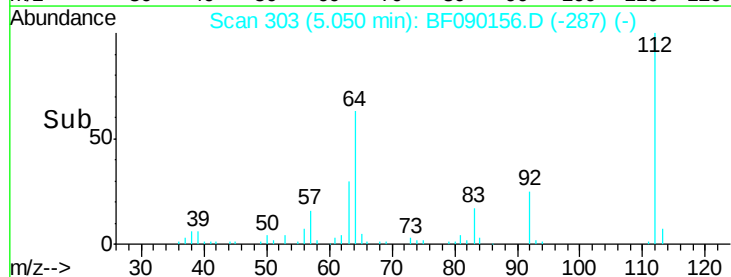
#5

2-Fluorophenol
Concen: 40.79 ng
RT: 5.05 min Scan# 303
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Tgt Ion:112 Resp: 106994
Ion Ratio Lower Upper
112 100
64 62.5 39.8 59.6#
63 29.7 18.9 28.3#



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: 49.75 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALLDL

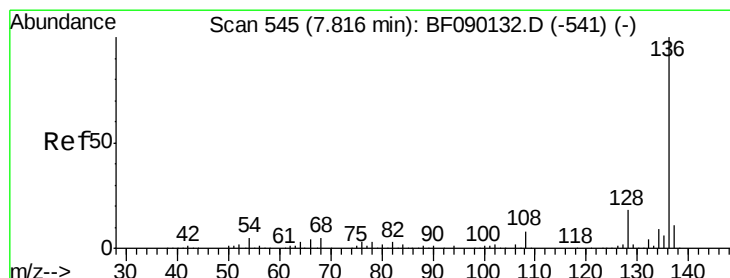
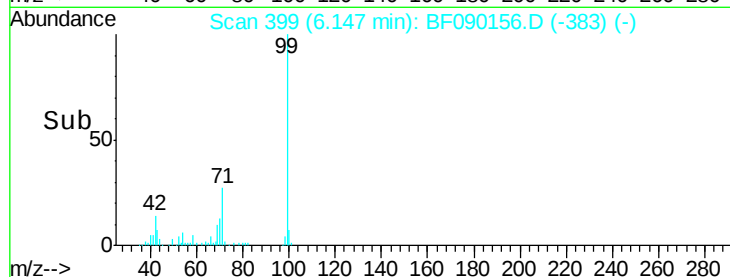
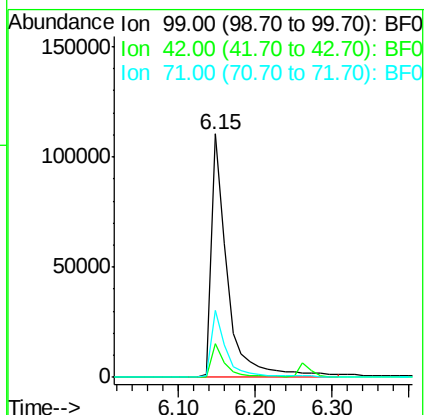
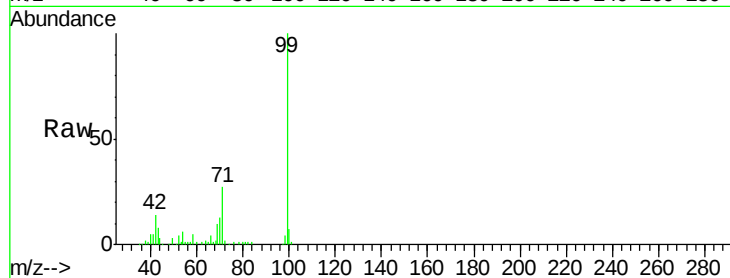
Tot Ion: 99 Resp: 161156

Ion Ratio Lower Upper

99 100

42 13.9 10.6 15.8

71 27.4 23.0 34.6



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.79 min Scan# 543

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Tgt Ion: 136 Resp: 175945

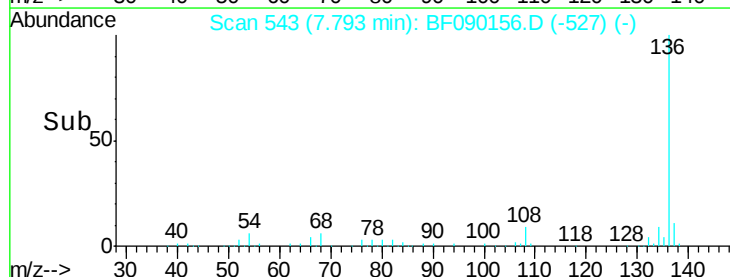
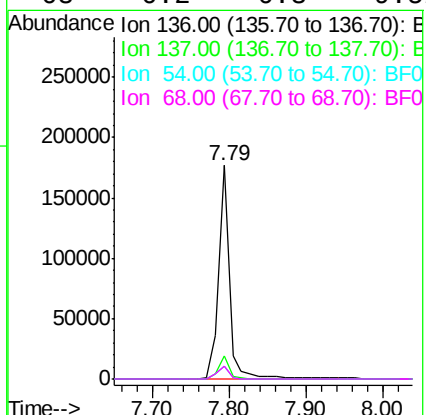
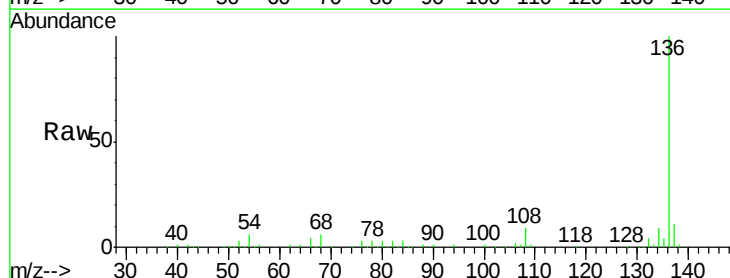
Ion Ratio Lower Upper

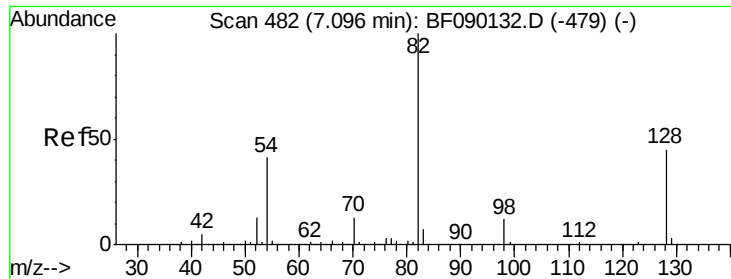
136 100

137 10.6 9.0 13.4

54 6.2 6.4 9.6#

68 6.2 6.3 9.5#

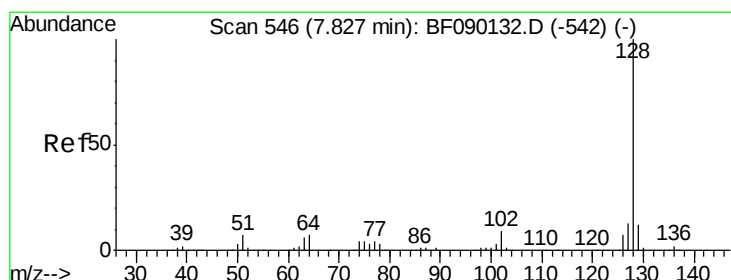
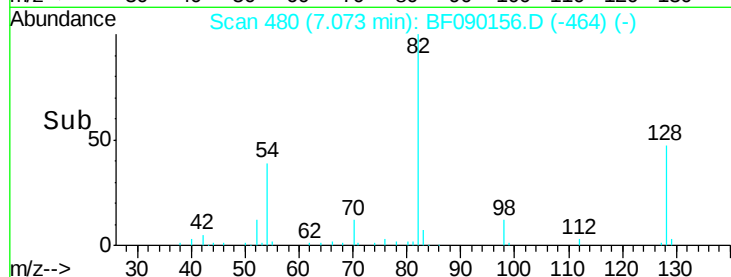
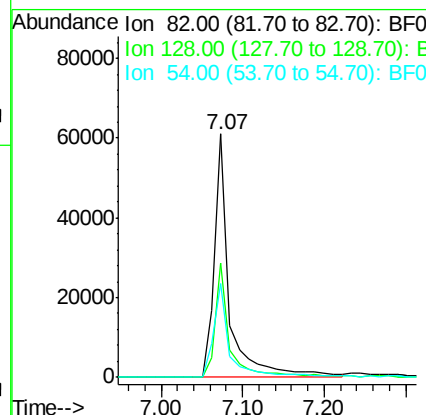
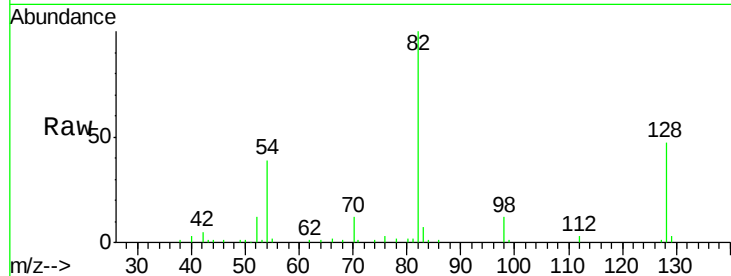




#23
 Nitrobenzene-d5
 Concen: 26.89 ng
 RT: 7.07 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

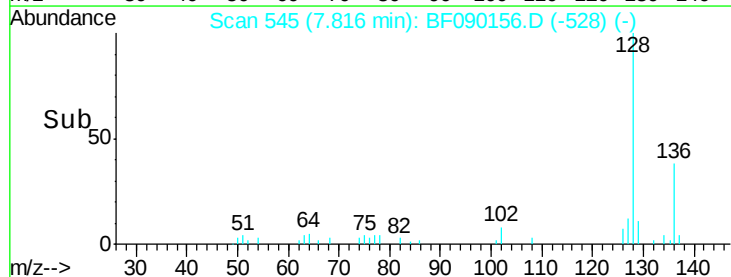
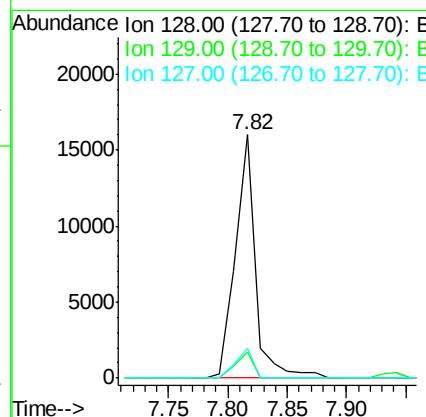
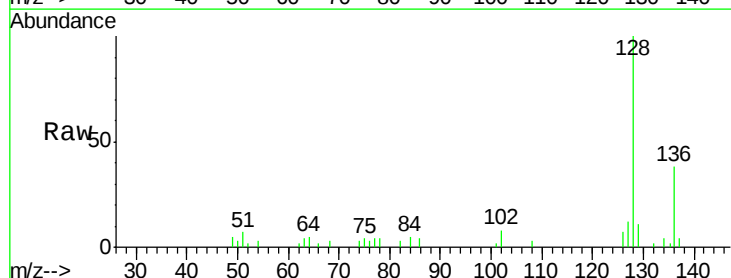
Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALLDL

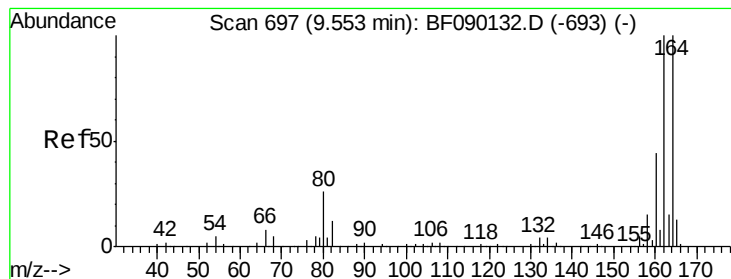
Tot Ion: 82 Resp: 81604
 Ion Ratio Lower Upper
 82 100
 128 46.9 37.5 56.3
 54 38.7 31.9 47.9



#31
 Naphthalene
 Concen: 2.24 ng
 RT: 7.82 min Scan# 545
 Delta R.T. -0.01 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

Tgt Ion: 128 Resp: 18783
 Ion Ratio Lower Upper
 128 100
 129 10.6 9.3 13.9
 127 12.1 10.8 16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALLDL

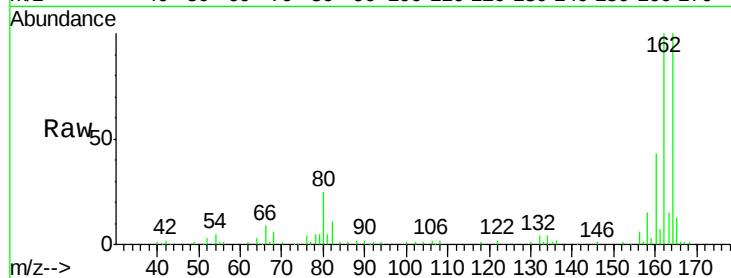
Tot Ion:164 Resp: 83873

Ion Ratio Lower Upper

164 100

162 99.5 81.4 122.2

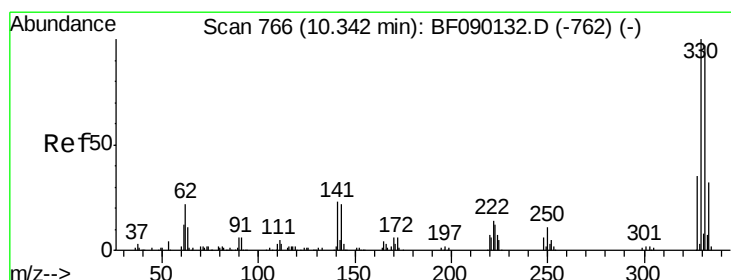
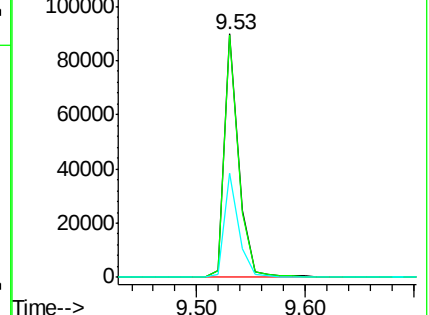
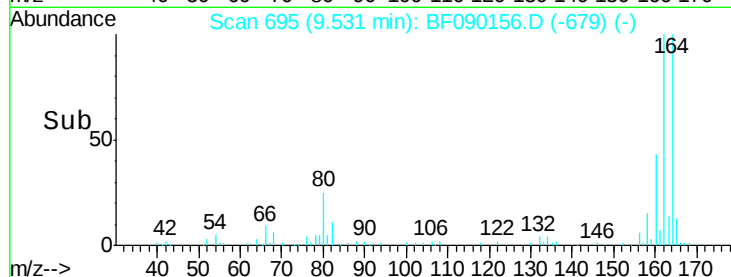
160 42.9 36.6 54.8



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: 40.45 ng

RT: 10.32 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

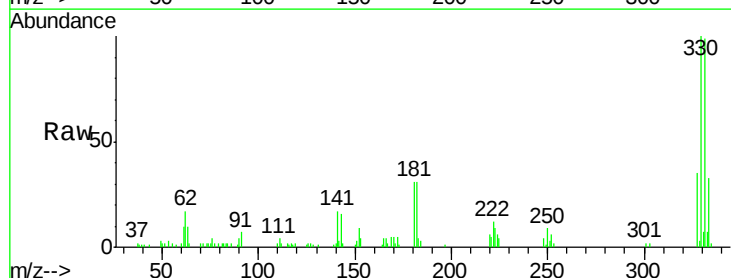
Tgt Ion:330 Resp: 29107

Ion Ratio Lower Upper

330 100

332 96.6 78.1 117.1

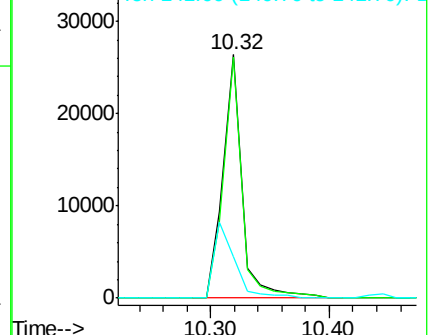
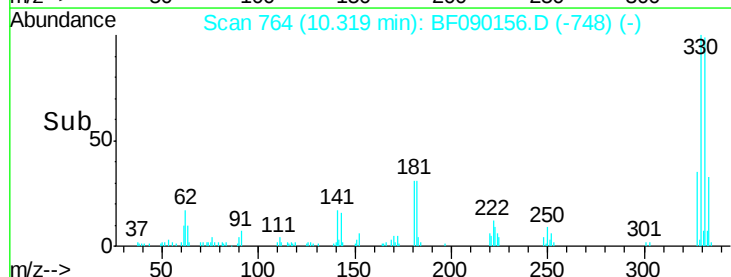
141 34.7 23.9 35.9



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

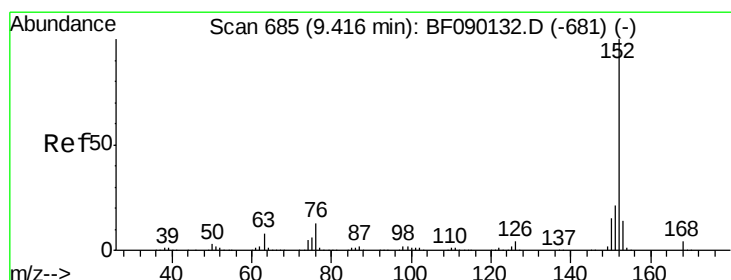
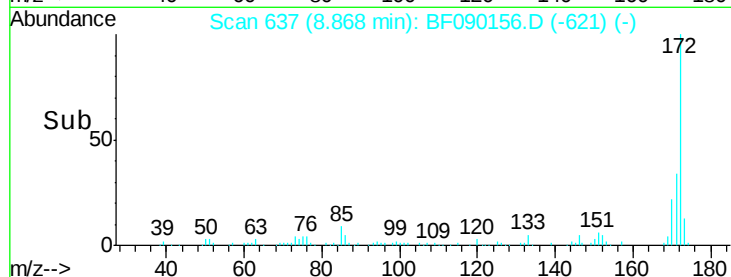
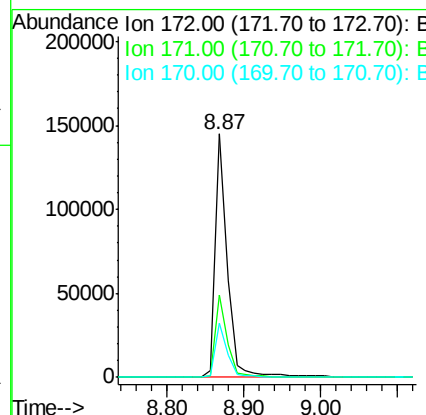
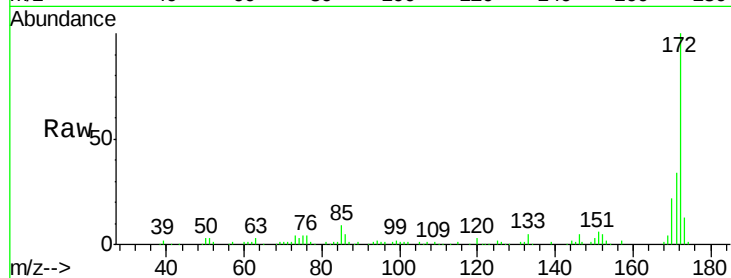




#44
 2-Fluorobiphenyl
 Concen: 37.04 ng
 RT: 8.87 min Scan# 637
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

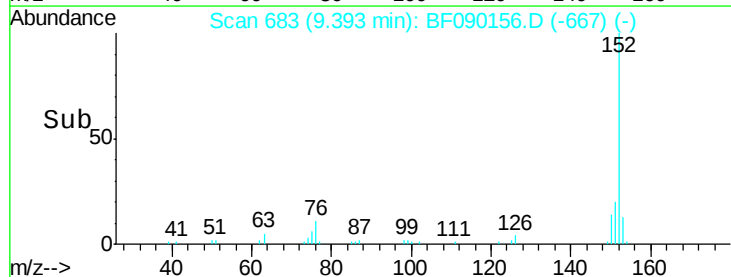
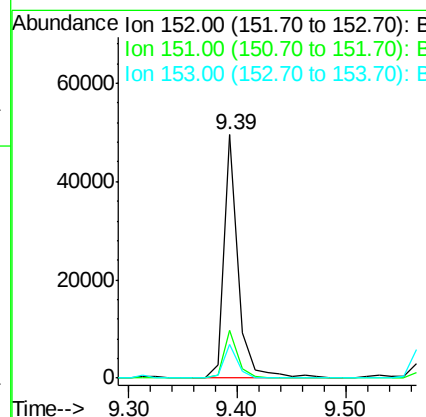
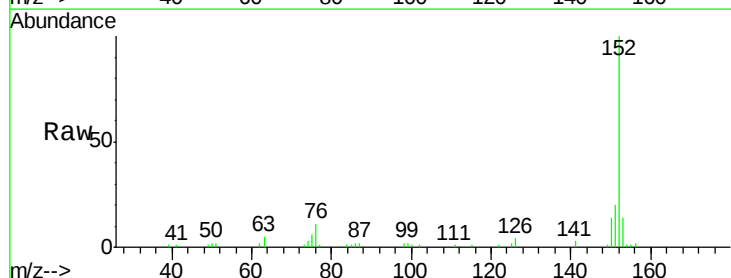
Instrument :
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 FHSW-01-EASTSIDEWALLDL

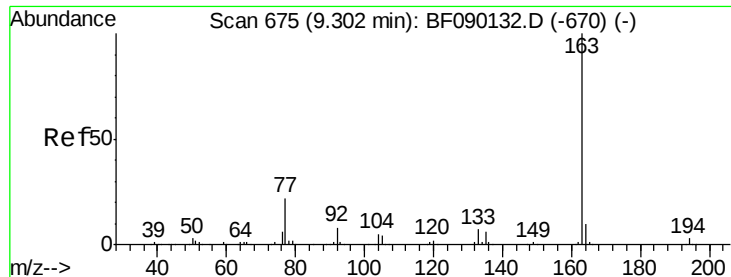
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.2	43.8
170	22.4	19.8	29.8



#48
 Acenaphthylene
 Concen: 6.34 ng
 RT: 9.39 min Scan# 683
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.5	24.7
153	13.6	10.6	15.8

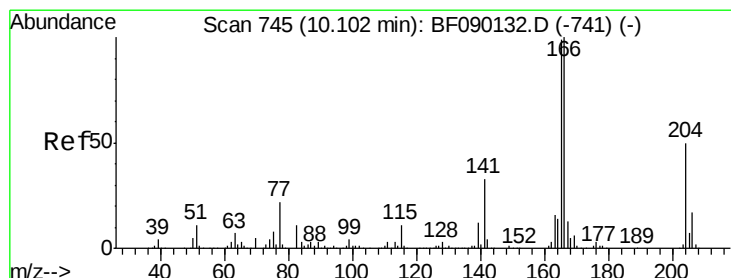
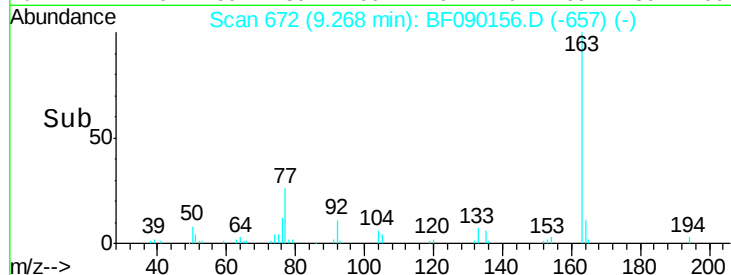
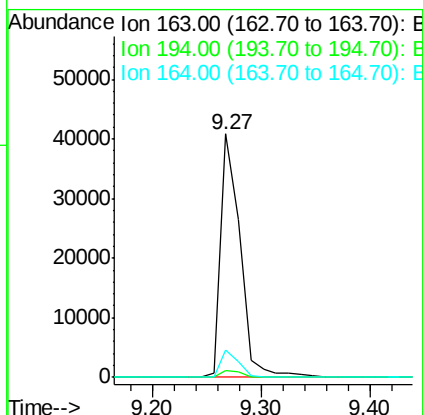
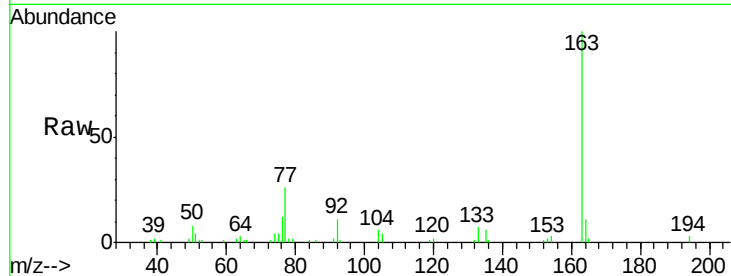




#49
Dimethylphthalate
Concen: 9.55 ng
RT: 9.27 min Scan# 672
Delta R.T. -0.03 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

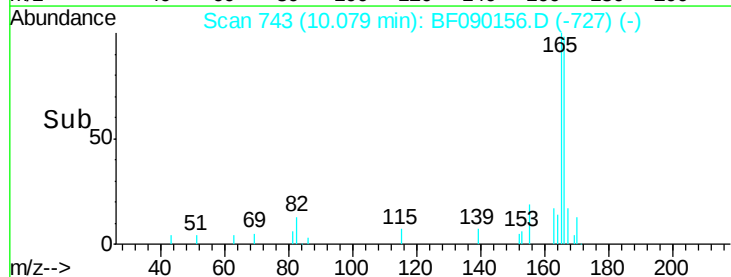
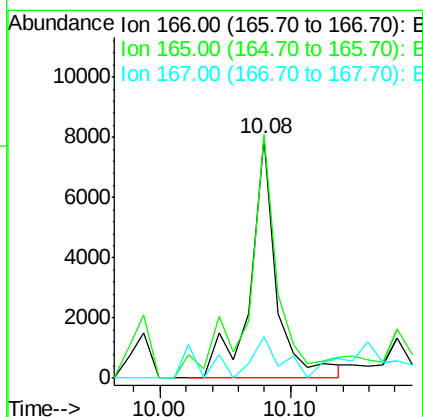
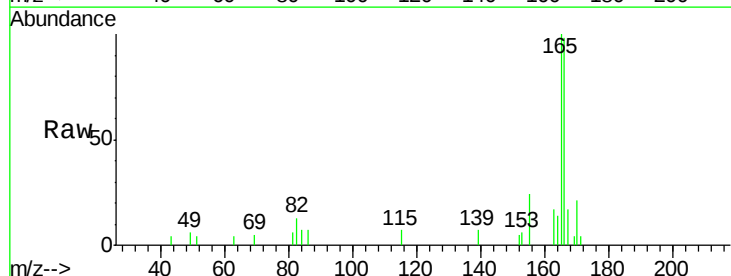
Instrument :
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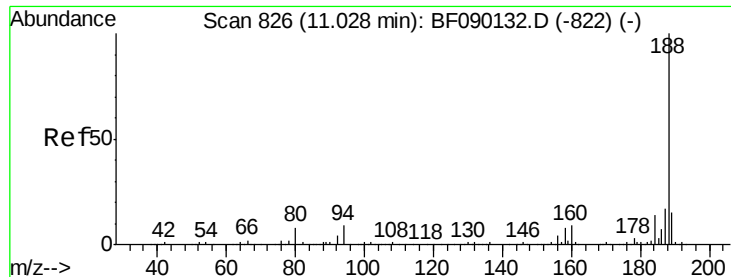
Tot Ion:163 Resp: 51039
Ion Ratio Lower Upper
163 100
194 3.1 2.8 4.2
164 11.1 8.1 12.1



#57
Fluorene
Concen: 2.67 ng
RT: 10.08 min Scan# 743
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Tgt Ion:166 Resp: 11282
Ion Ratio Lower Upper
166 100
165 101.7 78.5 117.7
167 17.5 11.2 16.8#

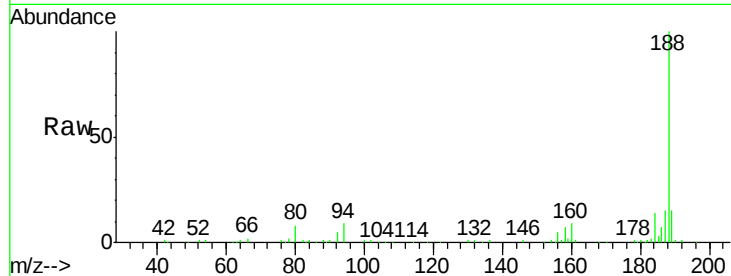




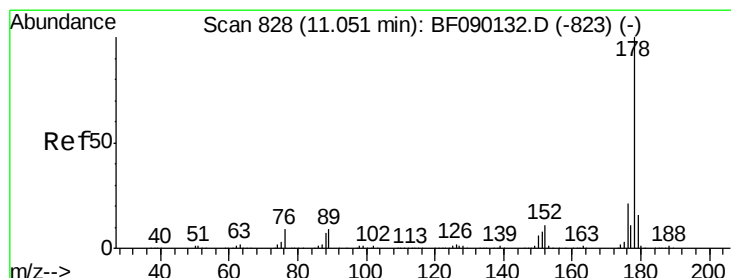
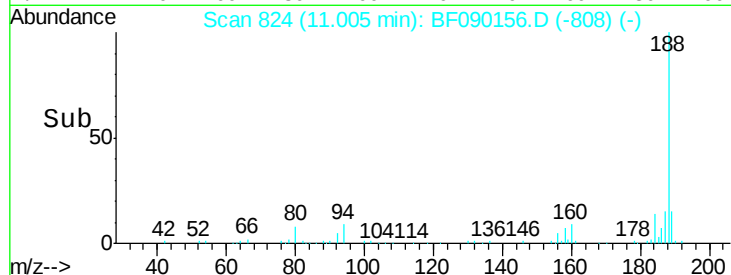
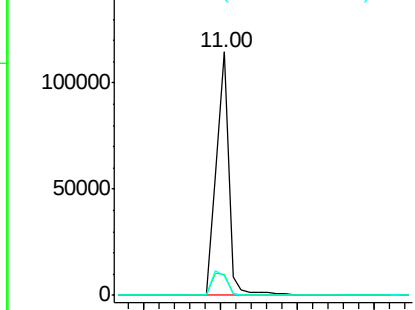
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.00 min Scan# 824
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALLDL

Tot Ion:188 Resp: 130402
Ion Ratio Lower Upper
188 100
94 8.5 10.5 15.7#
80 7.9 11.2 16.8#

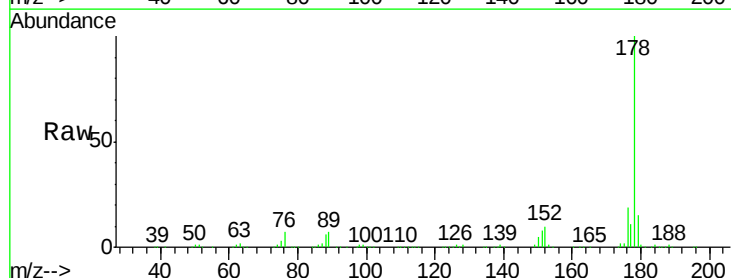


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

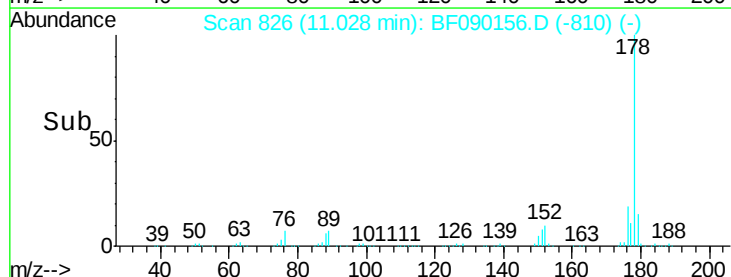
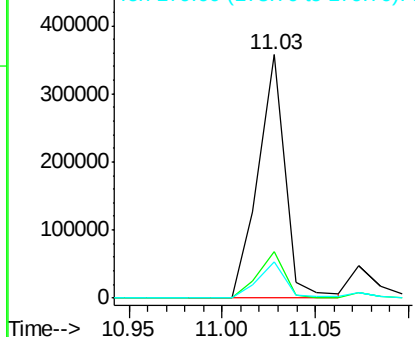


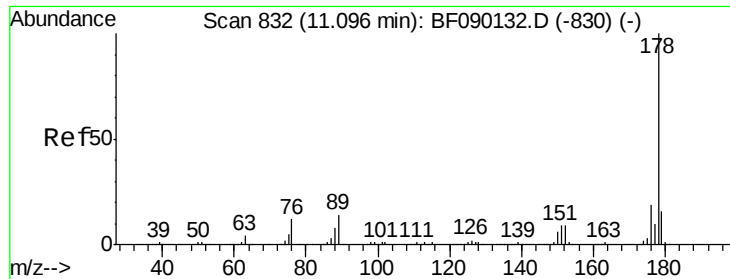
#70
Phenanthrene
Concen: 58.88 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Tgt Ion:178 Resp: 359073
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.1 12.9 19.3



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

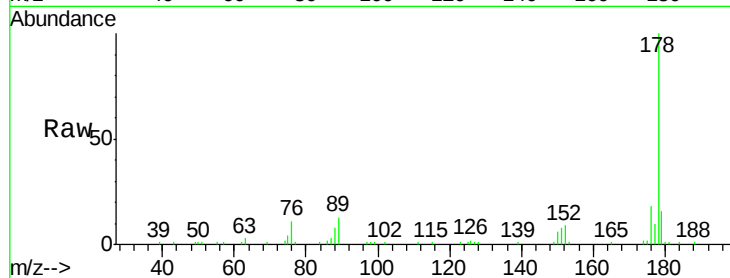




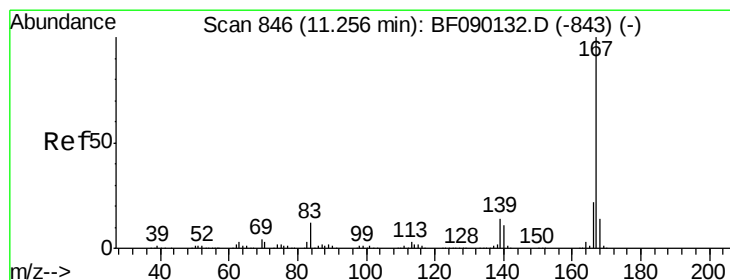
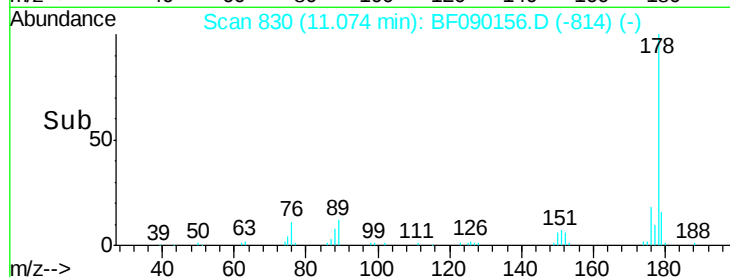
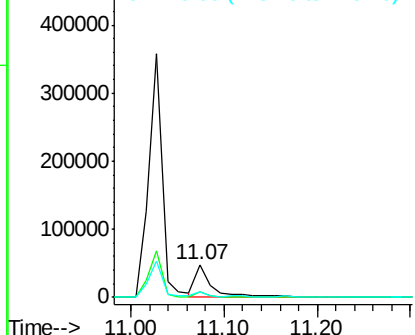
#71
 Anthracene
 Concen: 8.88 ng
 RT: 11.07 min Scan# 830
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALLDL

Tot Ion:178 Resp: 56815
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.8 23.6
 179 16.0 12.6 19.0

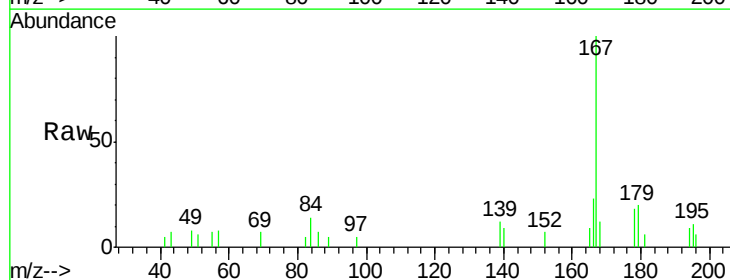


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

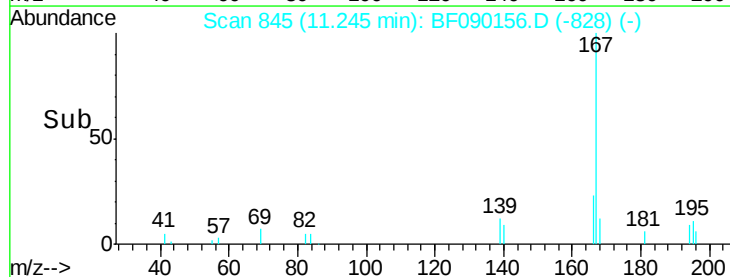
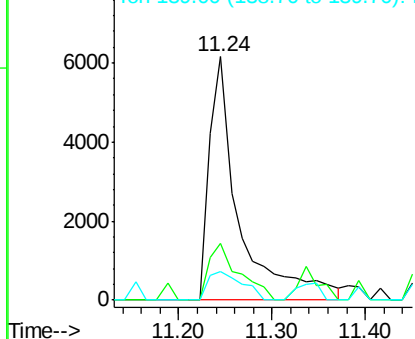


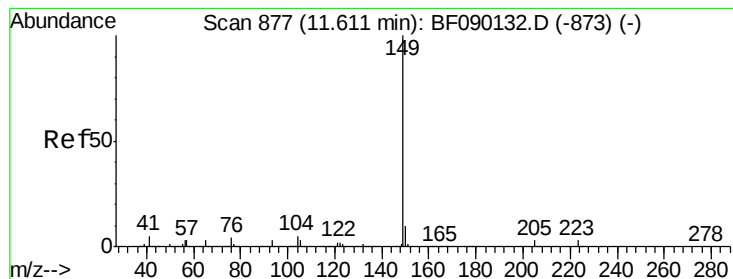
#72
 Carbazole
 Concen: 2.02 ng
 RT: 11.24 min Scan# 845
 Delta R.T. -0.01 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

Tgt Ion:167 Resp: 13685
 Ion Ratio Lower Upper
 167 100
 166 23.3 18.0 27.0
 139 11.9 10.4 15.6



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





#73

Di-n-butylphthalate

Concen: 6.71 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALLDL

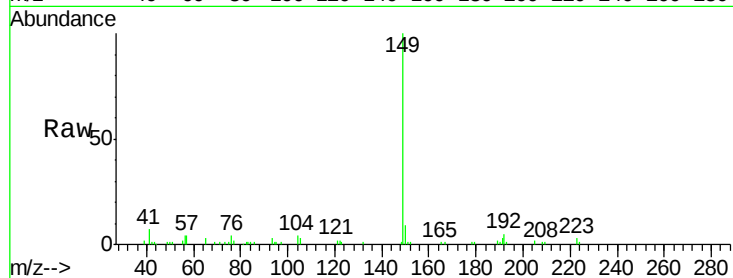
Tot Ion:149 Resp: 52774

Ion Ratio Lower Upper

149 100

150 9.0 7.8 11.8

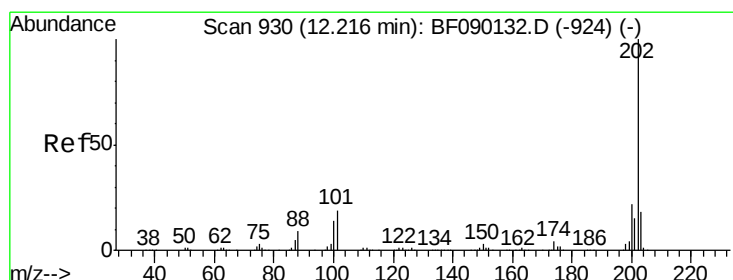
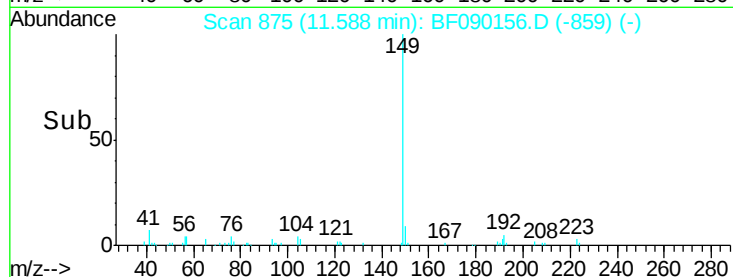
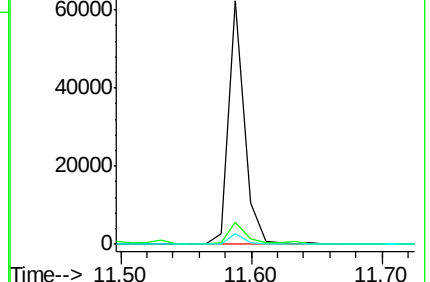
104 4.4 3.9 5.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 111.79 ng

RT: 12.21 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

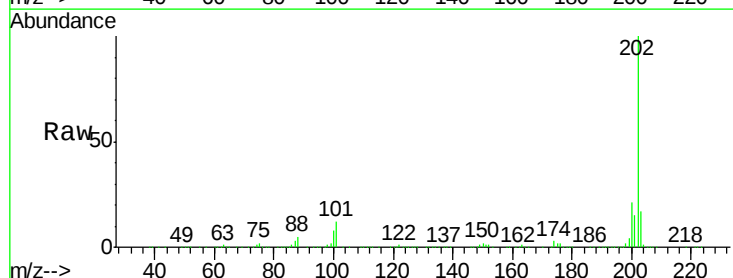
Tgt Ion:202 Resp: 731819

Ion Ratio Lower Upper

202 100

101 11.5 0.0 36.1

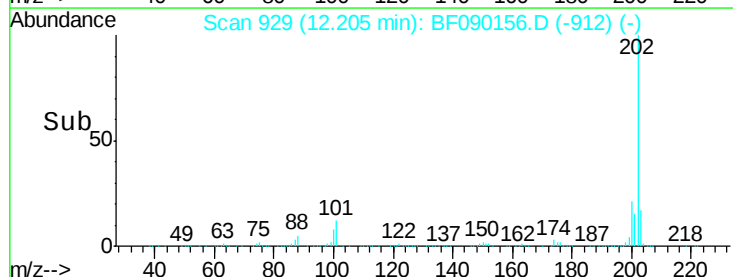
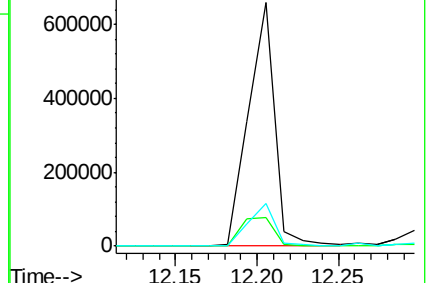
203 17.5 0.0 38.2

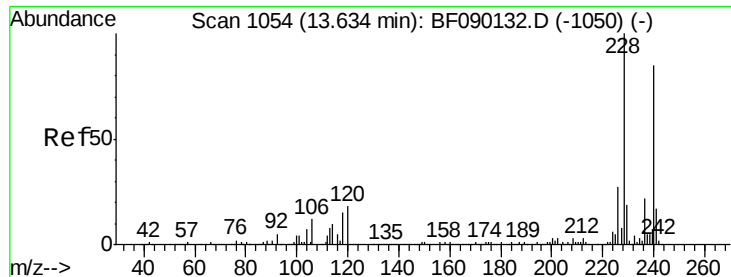


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALLDL

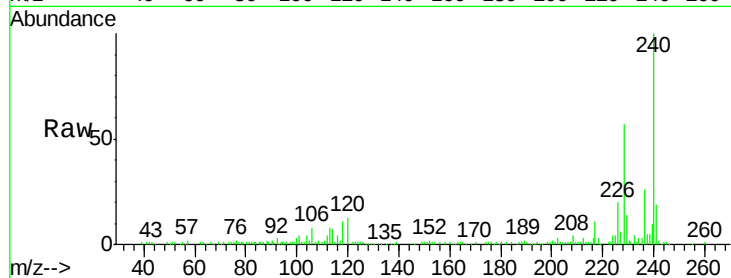
Tot Ion:240 Resp: 95671

Ion Ratio Lower Upper

240 100

120 13.1 10.6 16.0

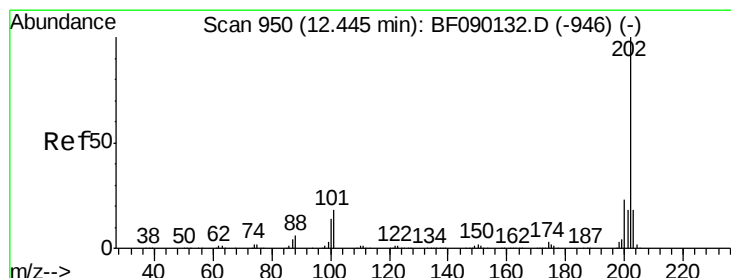
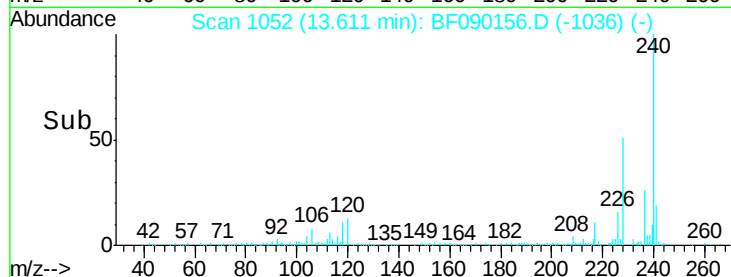
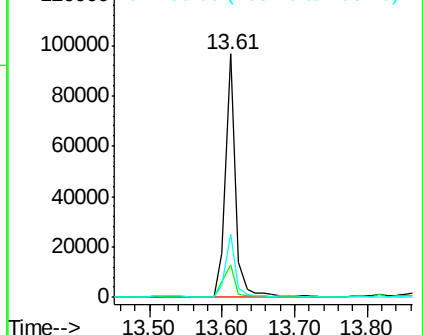
236 25.9 21.6 32.4



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: 96.30 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

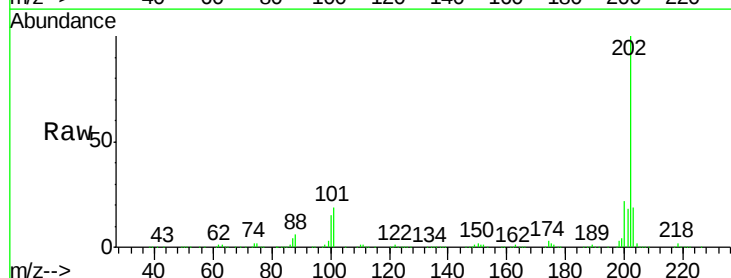
Tgt Ion:202 Resp: 630462

Ion Ratio Lower Upper

202 100

200 21.7 17.9 26.9

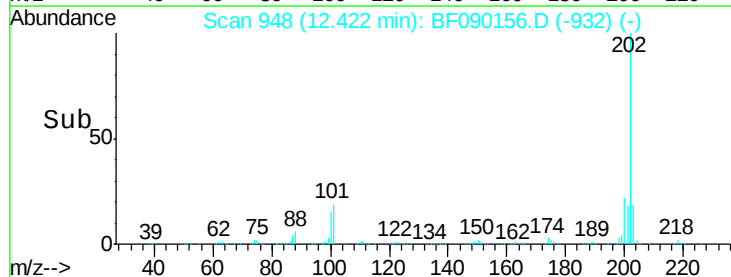
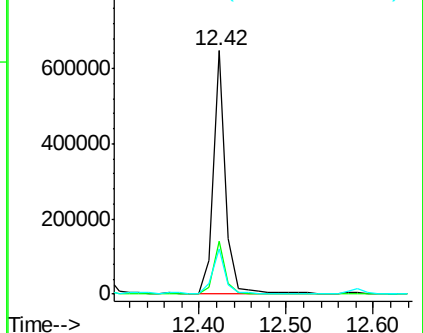
203 18.6 14.2 21.4

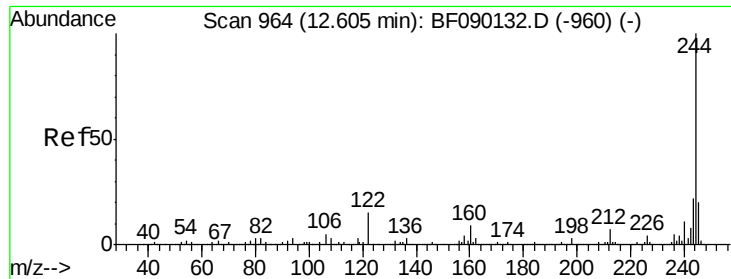


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

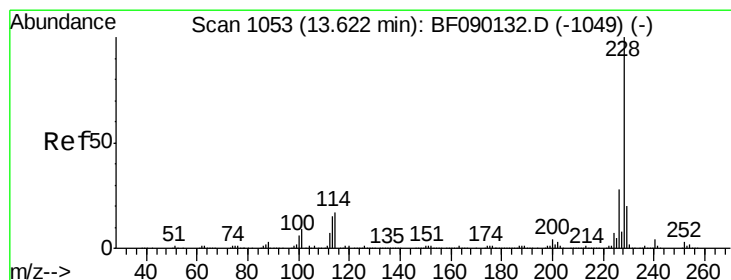
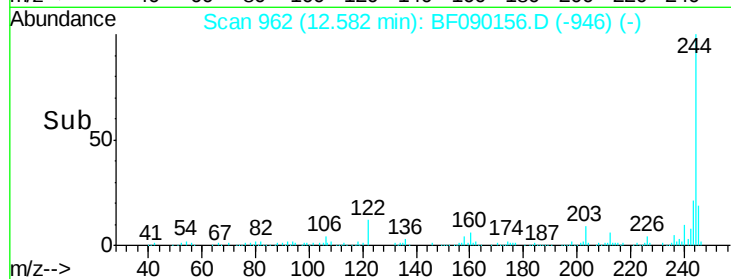
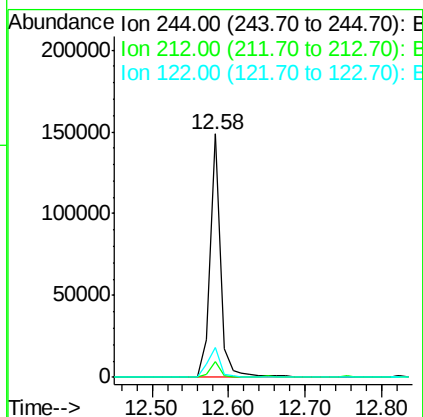
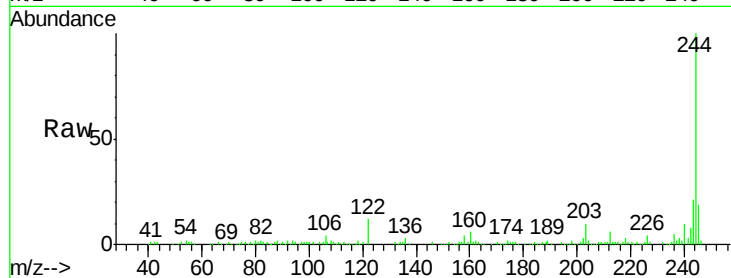




#78
 Terphenyl-d14
 Concen: 37.20 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

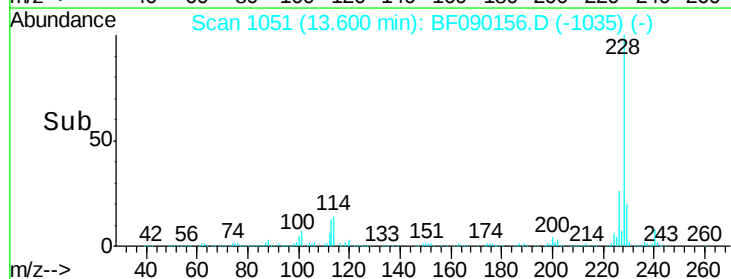
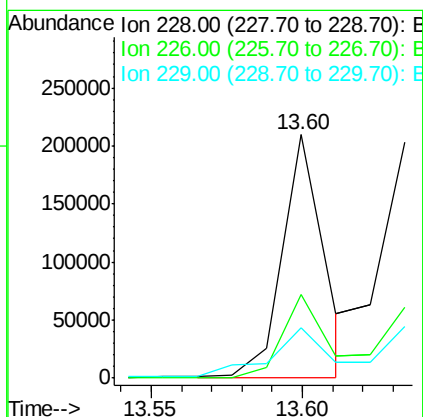
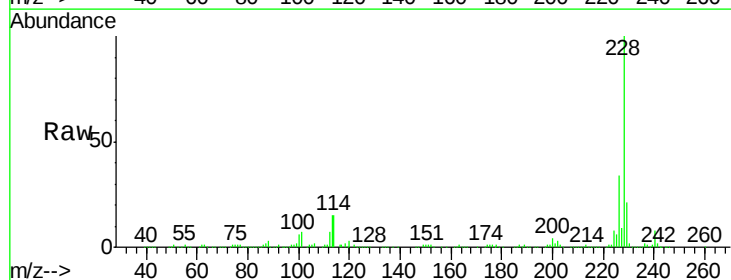
Instrument :
 BNA_F
 ClientSampleId :
 FHSW-01-EASTSIDEWALLDL

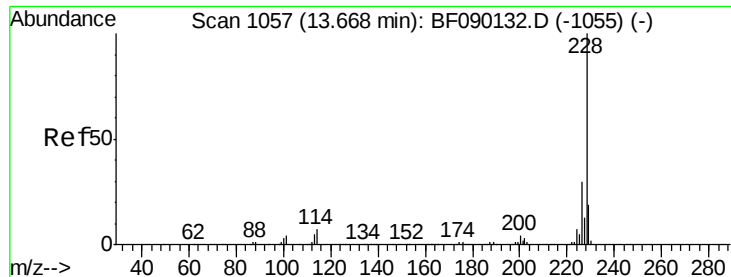
Tot Ion:244 Resp: 140176
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.8 8.8
 122 12.3 9.4 14.0



#80
 Benzo(a)anthracene
 Concen: 39.11 ng m
 RT: 13.60 min Scan# 1051
 Delta R.T. -0.02 min
 Lab File: BF090156.D
 Acq: 21 Sep 2016 12:38

Tgt Ion:228 Resp: 201281
 Ion Ratio Lower Upper
 228 100
 226 34.3 22.0 33.0#
 229 20.8 16.2 24.2





#82

Chrysene

Concen: 47.98 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.03 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument:

BNA_F

ClientSampleID:

FHSW-01-EASTSIDEWALLDL

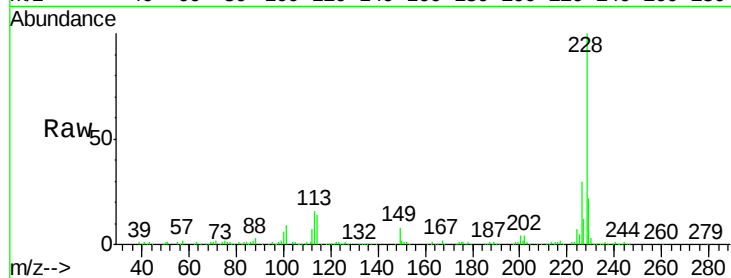
Tot Ion: 228 Resp: 240581

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

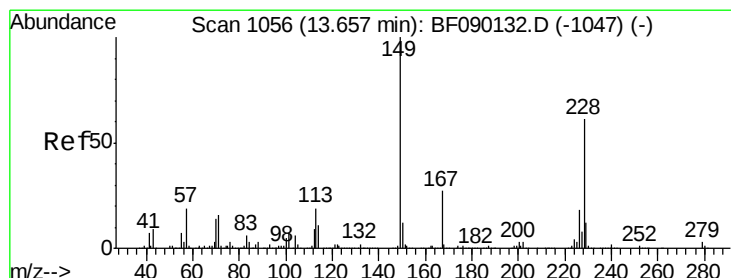
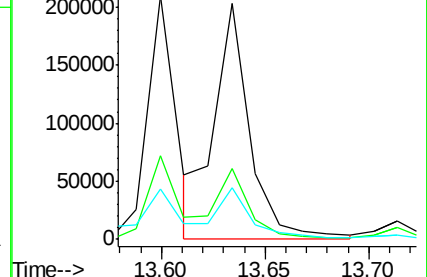
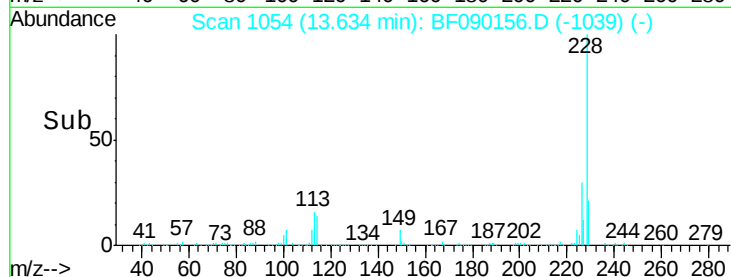
229 21.8 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.93 ng/mL

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

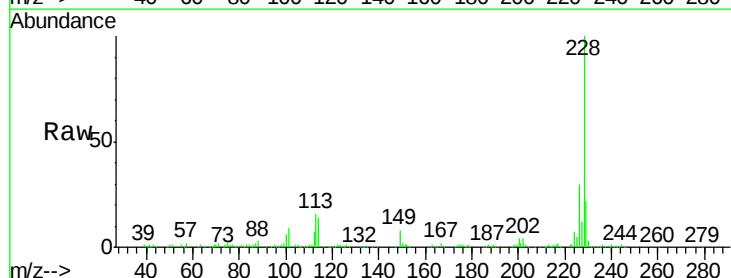
Tgt Ion: 149 Resp: 16119

Ion Ratio Lower Upper

149 100

167 24.3 21.2 31.8

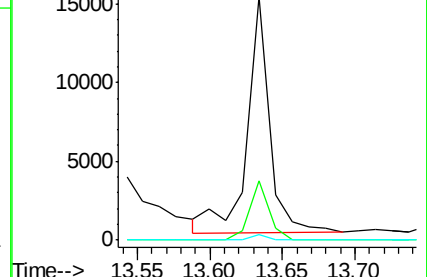
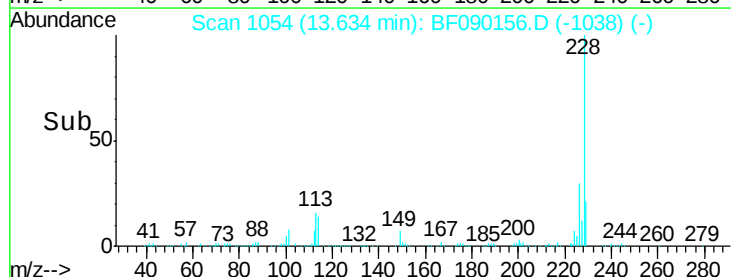
279 2.1 2.2 3.2#

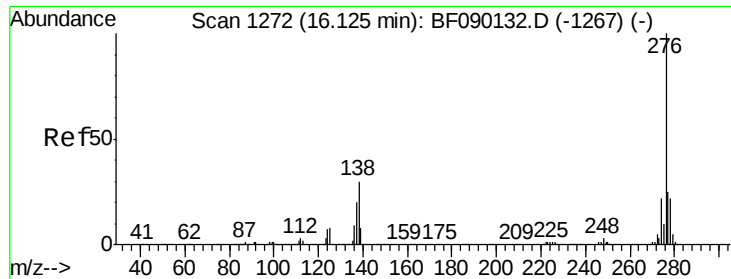


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

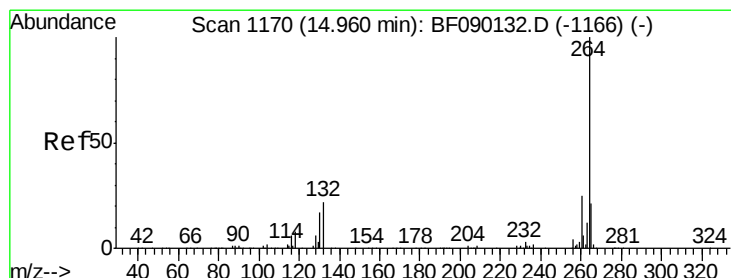
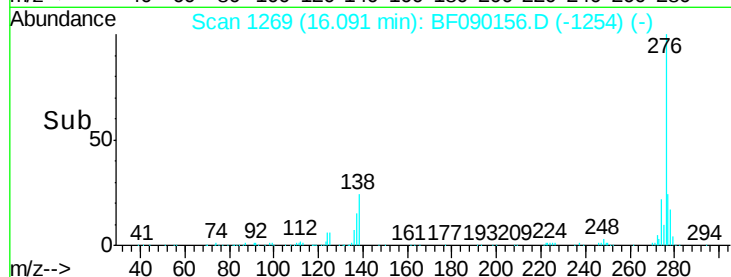
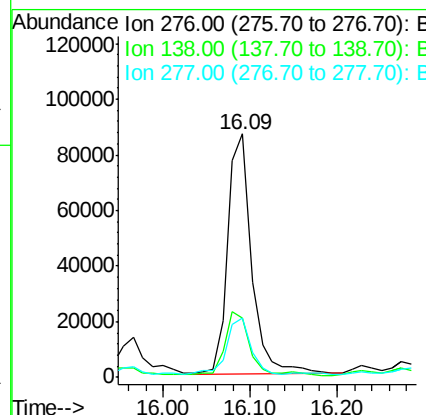
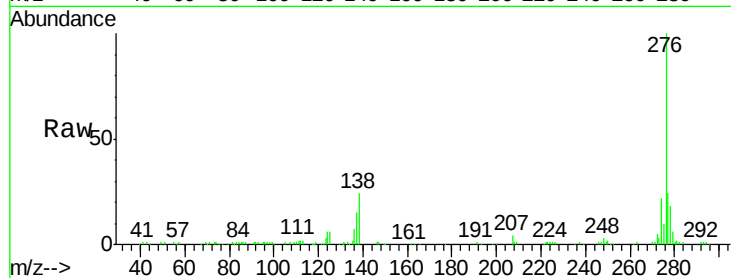




#85
Indeno(1,2,3-cd)pyrene
Concen: 40.73 ng
RT: 16.09 min Scan# 1269
Delta R.T. -0.03 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

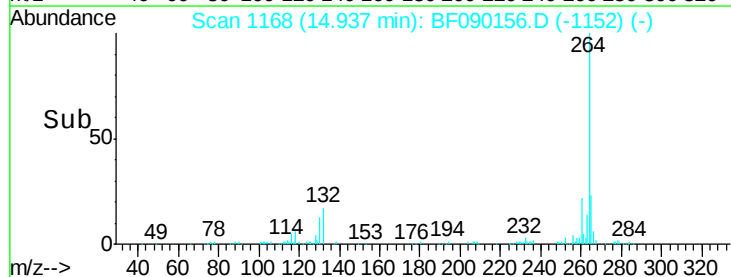
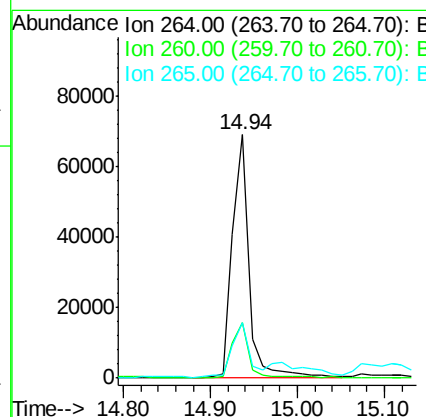
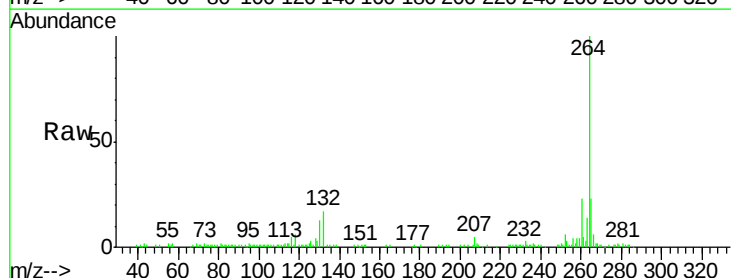
Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALLDL

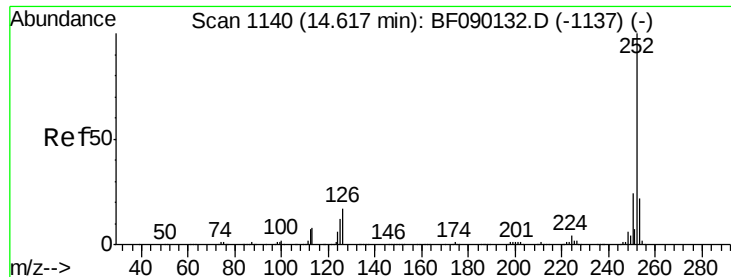
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.2	25.9	38.9
277	23.9	19.9	29.9



#86
Perylene-d12
Concen: 20.00 ng
RT: 14.94 min Scan# 1168
Delta R.T. -0.02 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	22.5	17.0	25.4





#87

Benzo(b)fluoranthene

Concen: 53.39 ng m

RT: 14.59 min Scan# 1138

Delta R.T. -0.02 min

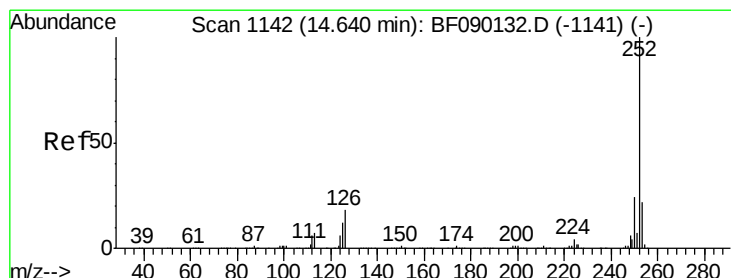
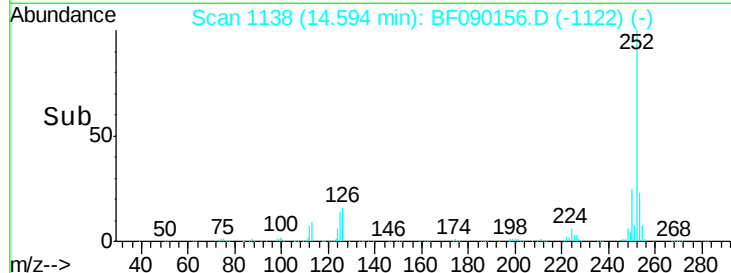
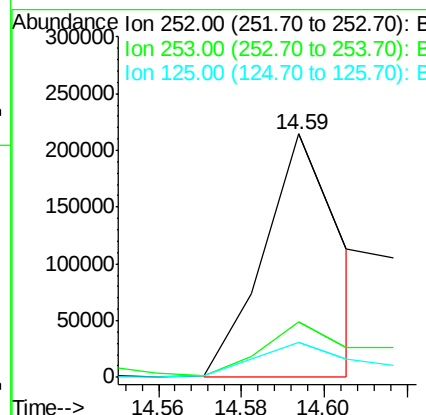
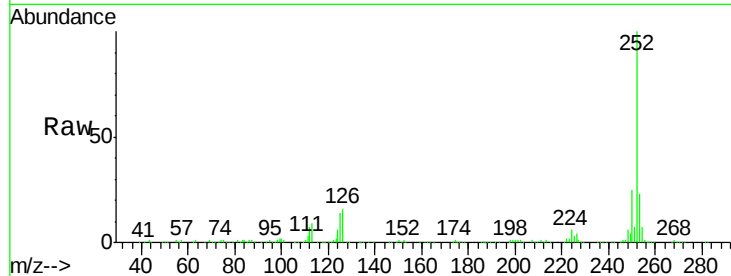
Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALLDL

Tot Ion:252 Resp: 275728

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	14.4	12.7	19.1



#88

Benzo(k)fluoranthene

Concen: 20.08 ng m

RT: 14.61 min Scan# 1139

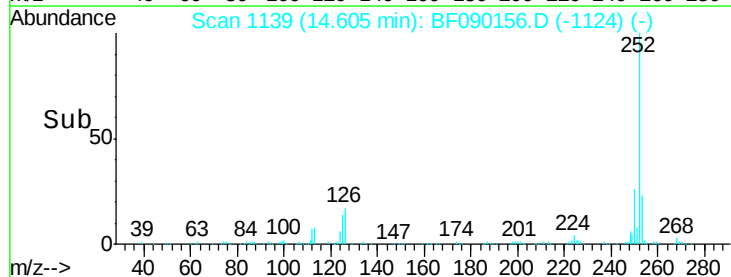
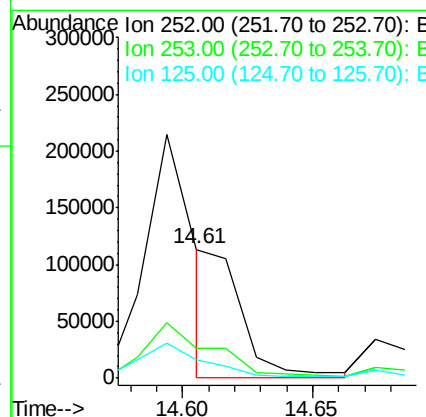
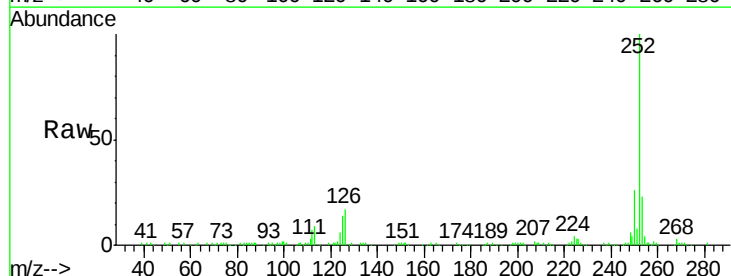
Delta R.T. -0.03 min

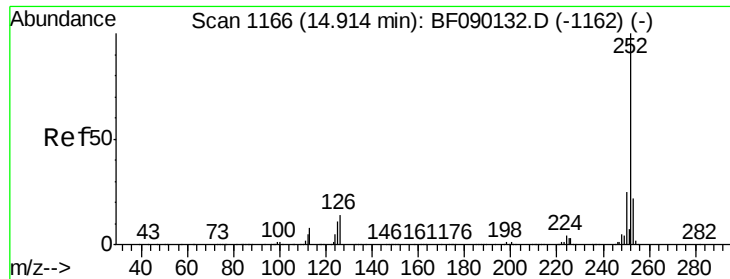
Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Tgt Ion:252 Resp: 97331

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	14.2	7.8	11.6#

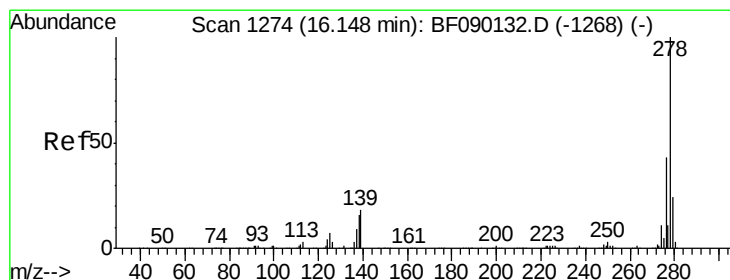
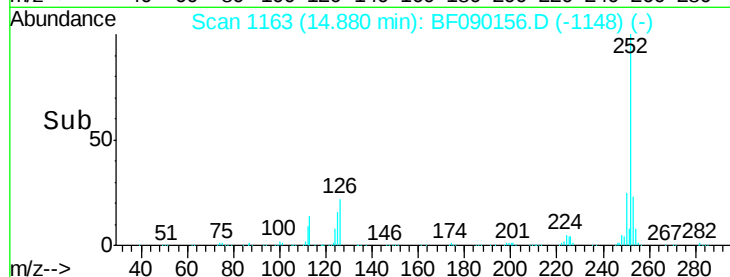
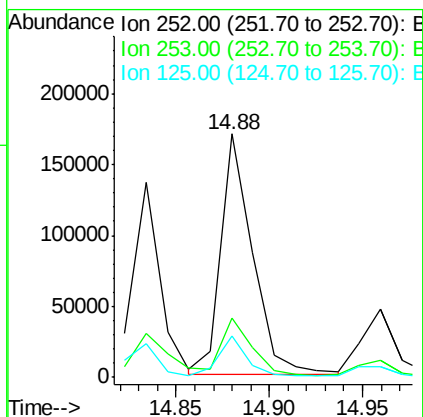
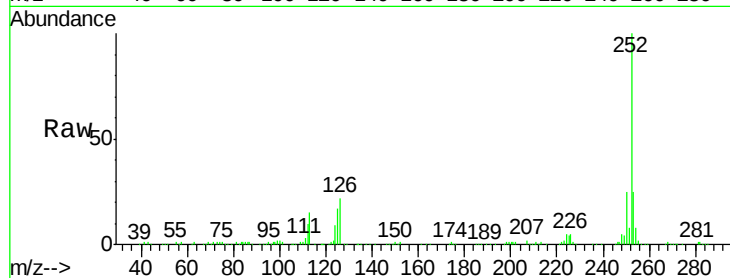




#89
Benzo(a)pyrene
Concen: 41.88 ng
RT: 14.88 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

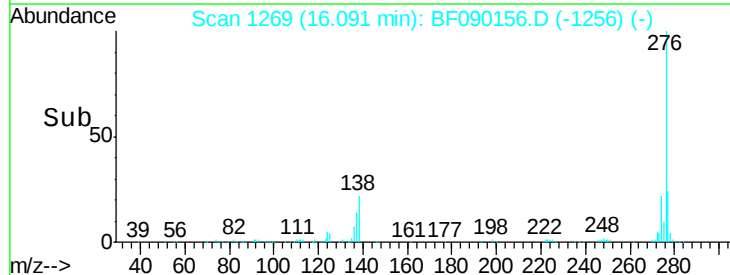
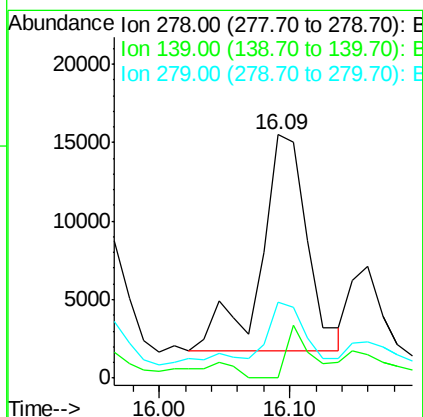
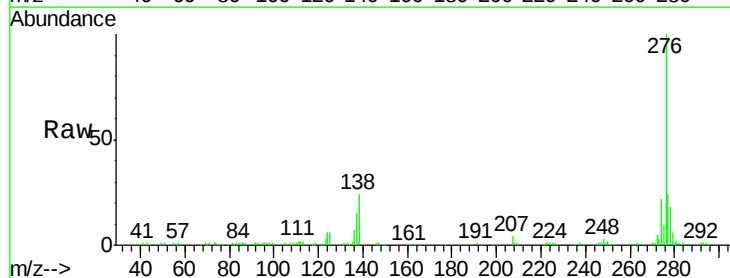
Instrument :
BNA_F
ClientSampleId :
FHSW-01-EASTSIDEWALLDL

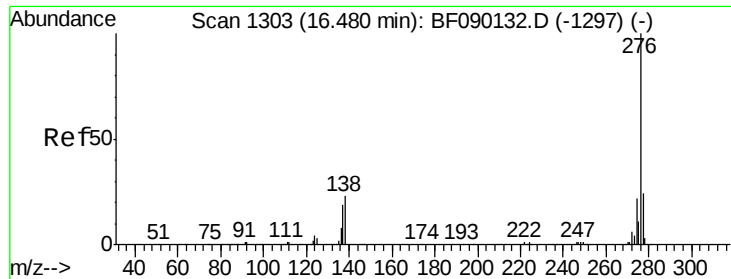
Tot Ion:252 Resp: 203480
Ion Ratio Lower Upper
252 100
253 24.6 17.4 26.0
125 16.9 7.7 11.5#



#90
Dibenzo(a,h)anthracene
Concen: 9.08 ng
RT: 16.09 min Scan# 1269
Delta R.T. -0.06 min
Lab File: BF090156.D
Acq: 21 Sep 2016 12:38

Tgt Ion:278 Resp: 34419
Ion Ratio Lower Upper
278 100
139 0.0 14.6 21.8#
279 31.3 18.8 28.2#





#91

Benzo(a,h,i)perylene

Concen: 46.67 ng

RT: 16.43 min Scan# 1299

Delta R.T. -0.05 min

Lab File: BF090156.D

Acq: 21 Sep 2016 12:38

Instrument :

BNA_F

ClientSampleId :

FHSW-01-EASTSIDEWALLDL

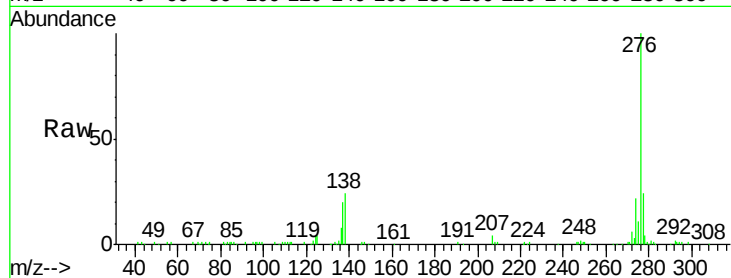
Tot Ion: 276 Resp: 173185

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 24.2 23.3 34.9



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

