

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088156.D
 Acq On : 21 Oct 2014 23:01
 Operator : TP/JJ
 Sample : F4351-17
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

Quant Time: Oct 22 04:39:47 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

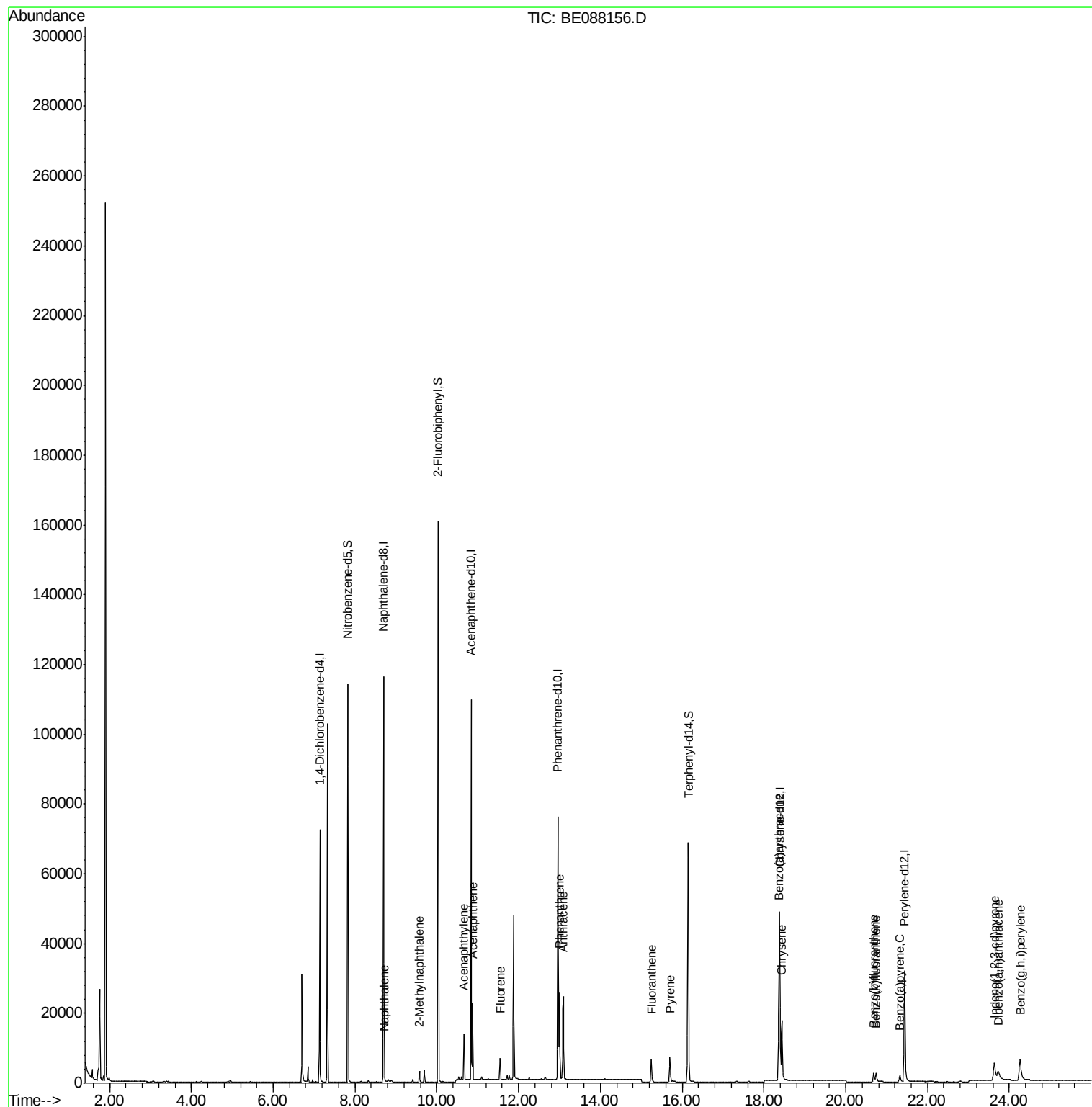
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	20754	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	82687	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	45200	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	87046	5.00	ng	0.00
16) Chrysene-d12	18.38	240	53429	5.00	ng	0.00
22) Perylene-d12	21.44	264	43004	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	47884	8.03	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	89166	7.14	ng	0.00
18) Terphenyl-d14	16.15	244	87927	10.23	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	810	0.05	ng	# 89
6) 2-Methylnaphthalene	9.58	142	1295	0.13	ng	# 97
9) Acenaphthylene	10.66	152	15091	0.22	ng	# 99
10) Acenaphthene	10.88	154	2734	0.26	ng	# 94
11) Fluorene	11.55	166	3457	0.31	ng	# 100
13) Phenanthrene	13.00	178	25880	0.19	ng	# 96
14) Anthracene	13.09	178	24755	0.36	ng	# 98
15) Fluoranthene	15.25	202	6438	0.39	ng	# 100
17) Pyrene	15.70	202	6686	0.46	ng	# 100
19) Benzo(a)anthracene	18.36	228	20310	0.43	ng	# 98
20) Chrysene	18.43	228	21714	0.47	ng	# 97
21) Indeno(1,2,3-cd)pyrene	23.63	276	10959	0.21	ng	# 89
23) Benzo(b)fluoranthene	20.68	252	3937	0.38	ng	# 94
24) Benzo(k)fluoranthene	20.74	252	4266	0.39	ng	# 93
25) Benzo(a)pyrene	21.32	252	3437	0.36	ng	# 91
26) Dibenzo(a,h)anthracene	23.73	278	2853	0.31	ng	# 88
27) Benzo(g,h,i)perylene	24.26	276	14437	0.35	ng	# 94

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

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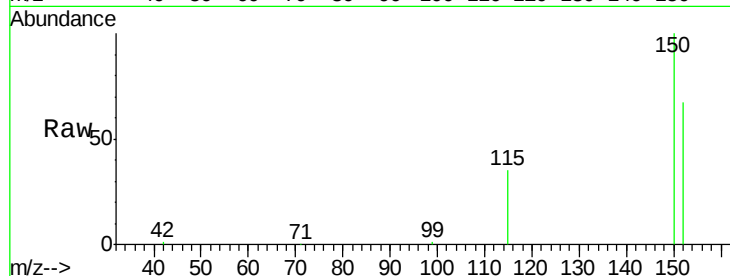
Tgt Ion:152 Resp: 20754

Ion Ratio Lower Upper

152 100

150 150.3 129.2 193.8

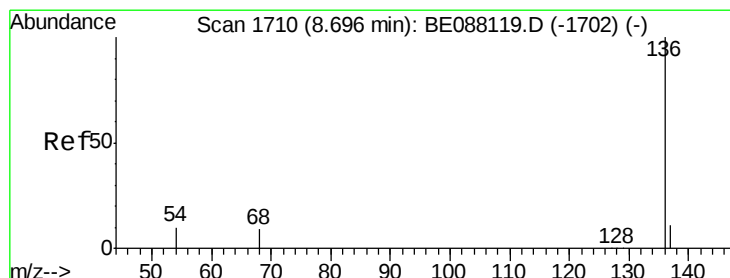
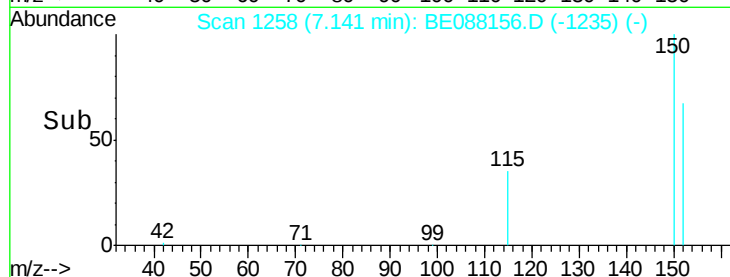
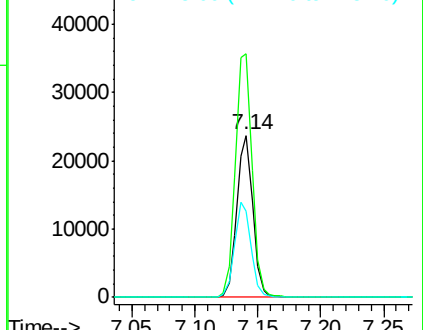
115 53.2 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

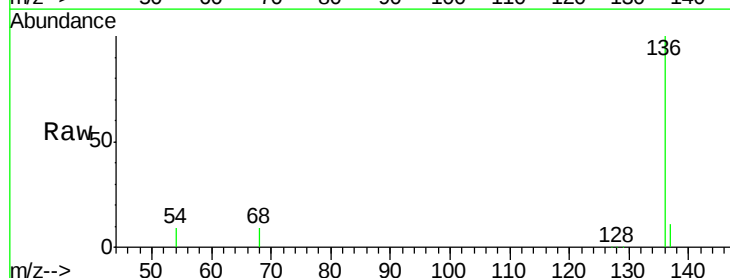
Tgt Ion:136 Resp: 82687

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

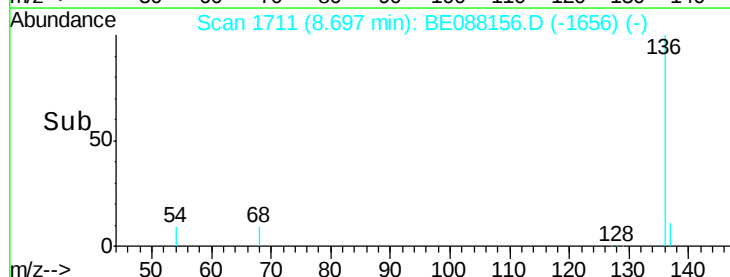
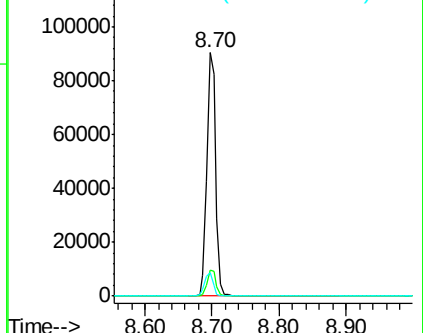
54 9.5 7.7 11.5

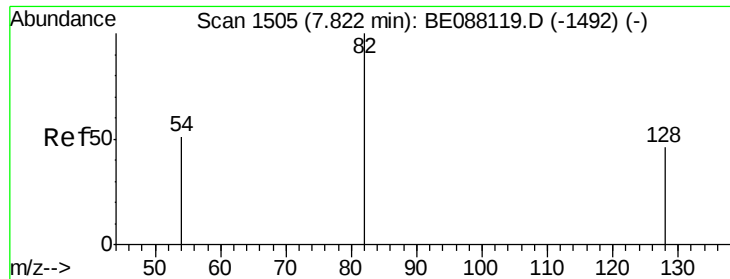


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 8.03 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

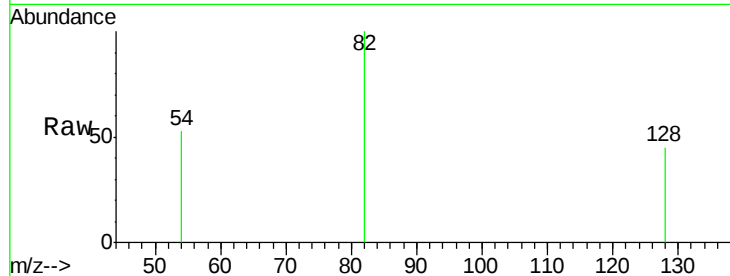
Tgt Ion: 82 Resp: 47884

Ion Ratio Lower Upper

82 100

128 45.1 37.1 55.7

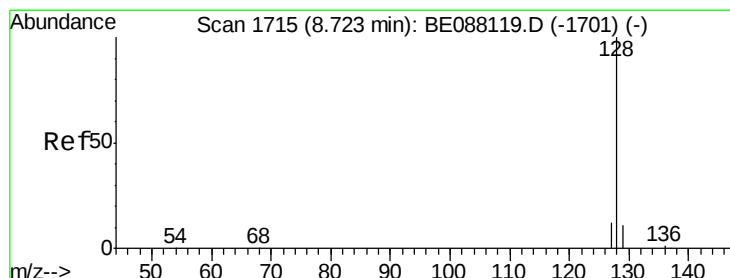
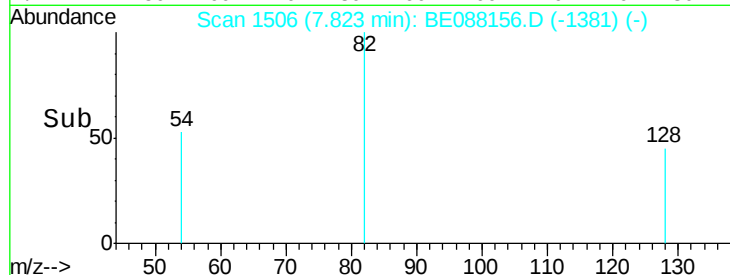
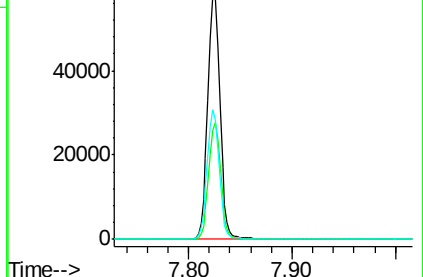
54 53.3 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE088119.D (-1492) (-)

Ion 128.00 (127.70 to 128.70): BE088119.D (-1492) (-)

Ion 54.00 (53.70 to 54.70): BE088119.D (-1492) (-)



#5

Naphthalene

Concen: 0.05 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

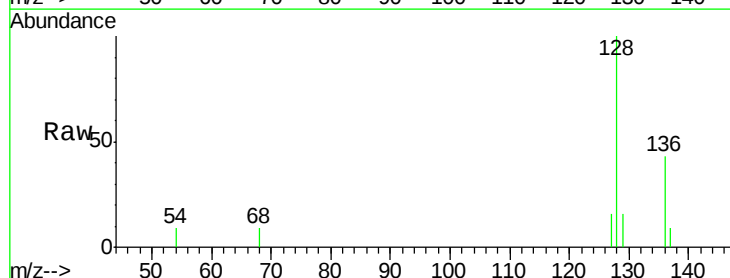
Tgt Ion: 128 Resp: 810

Ion Ratio Lower Upper

128 100

129 16.0 8.9 13.3#

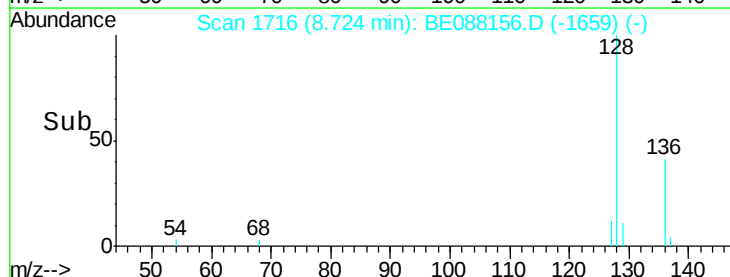
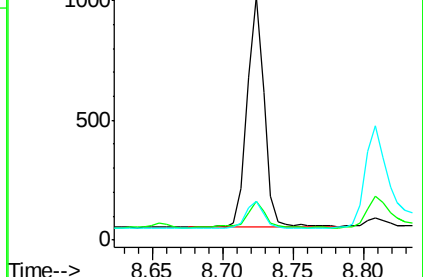
127 15.9 9.7 14.5#

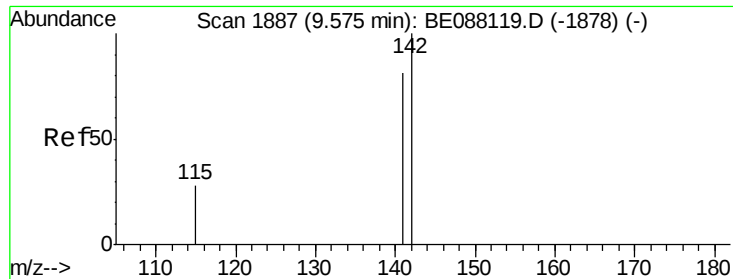


Abundance Ion 128.00 (127.70 to 128.70): BE088119.D (-1701) (-)

Ion 129.00 (128.70 to 129.70): BE088119.D (-1701) (-)

Ion 127.00 (126.70 to 127.70): BE088119.D (-1701) (-)





#6

2-Methylnaphthalene

Concen: 0.13 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

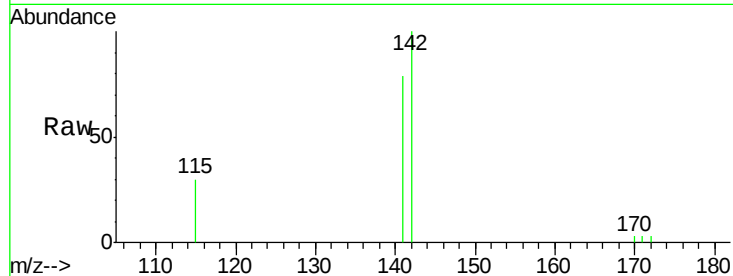
Tgt Ion:142 Resp: 1295

Ion Ratio Lower Upper

142 100

141 78.8 64.6 97.0

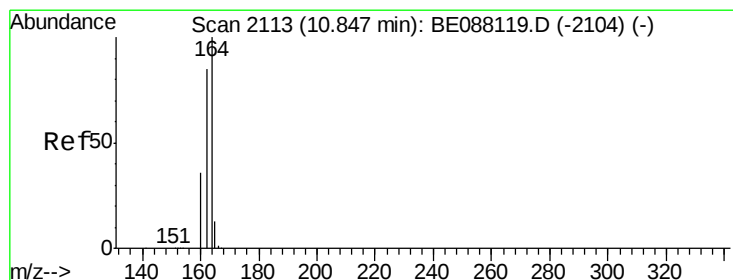
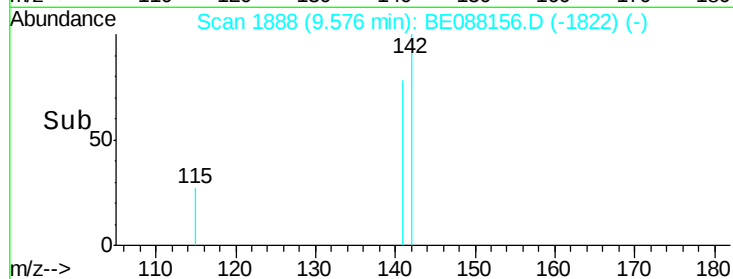
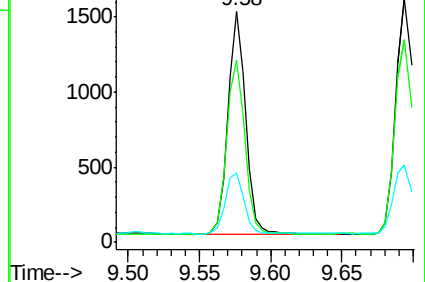
115 30.1 22.6 34.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

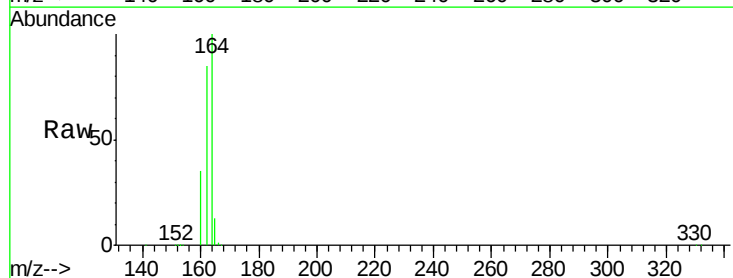
Tgt Ion:164 Resp: 45200

Ion Ratio Lower Upper

164 100

162 85.3 68.3 102.5

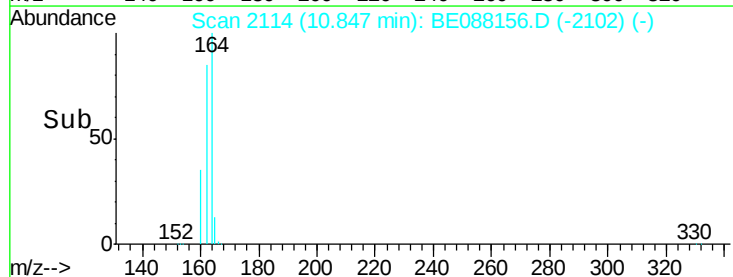
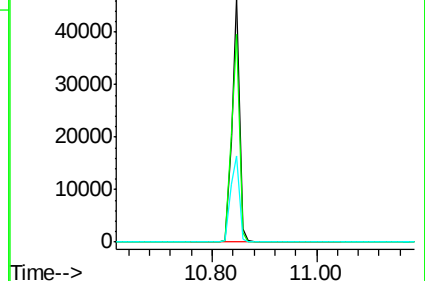
160 35.4 28.7 43.1



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





#8

2-Fluorobiphenyl

Concen: 7.14 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

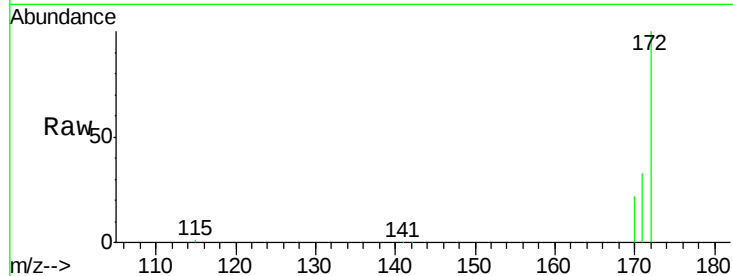
Tgt Ion:172 Resp: 89166

Ion Ratio Lower Upper

172 100

171 32.8 25.4 38.2

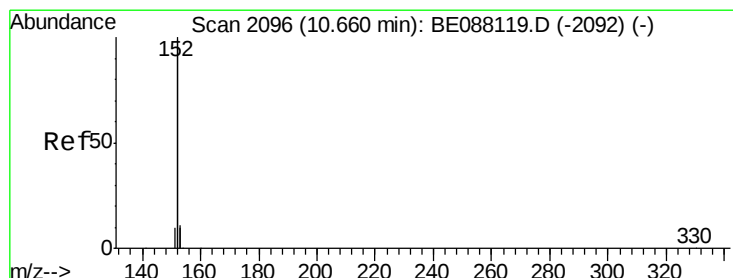
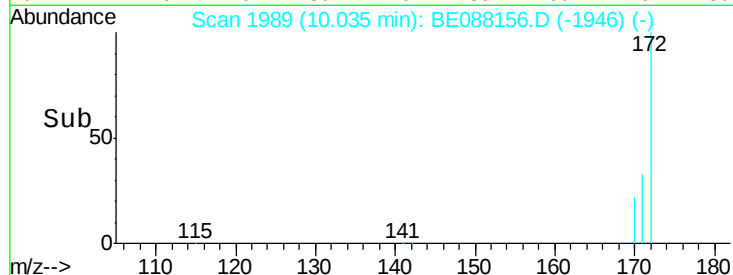
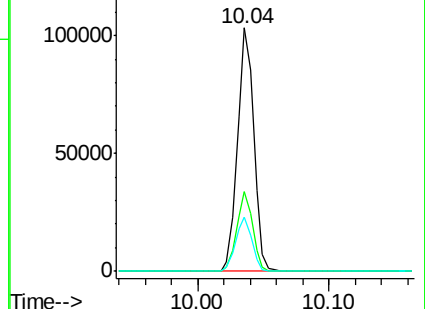
170 22.5 17.4 26.2



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



#9

Acenaphthylene

Concen: 0.22 ng

RT: 10.66 min Scan# 2097

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

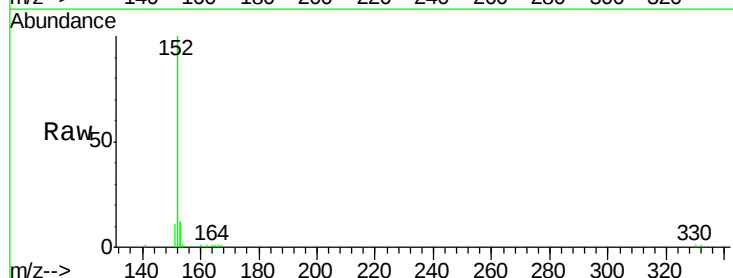
Tgt Ion:152 Resp: 15091

Ion Ratio Lower Upper

152 100

151 4.7 3.7 5.5

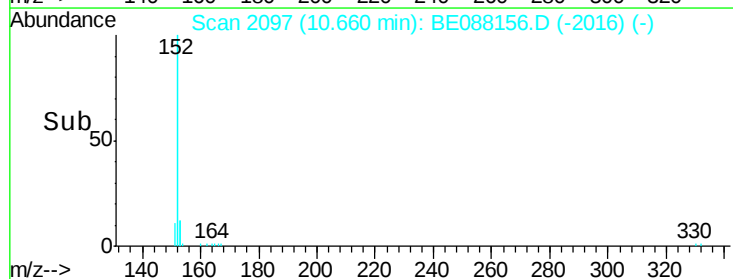
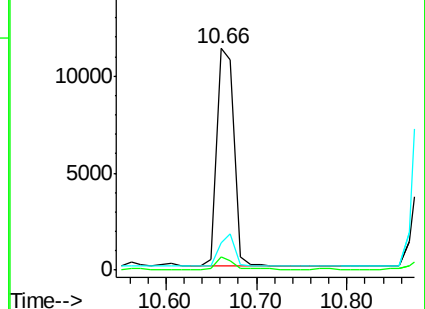
153 13.3 10.4 15.6

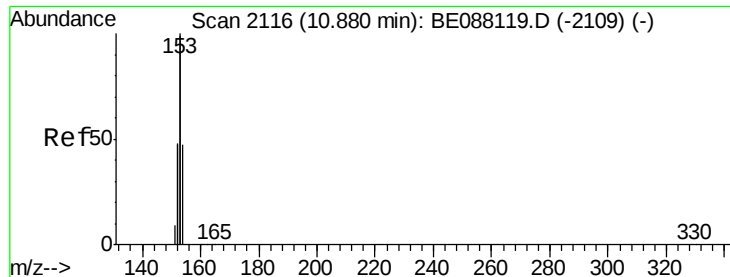


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.26 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

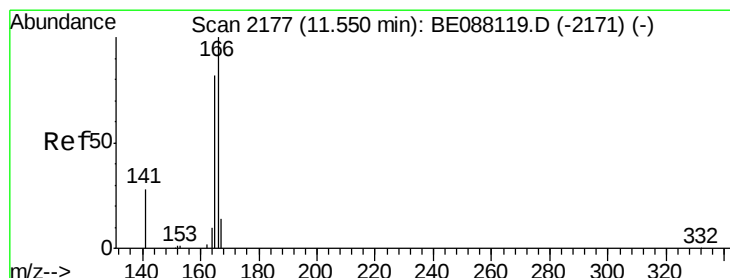
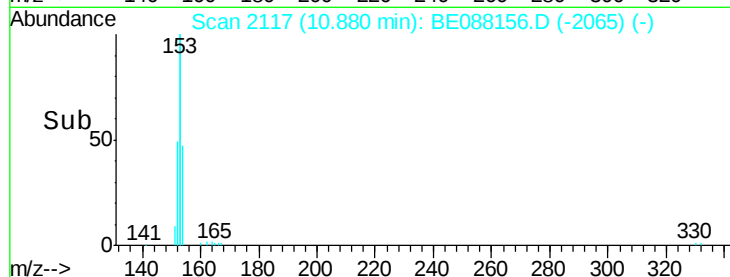
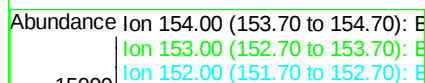
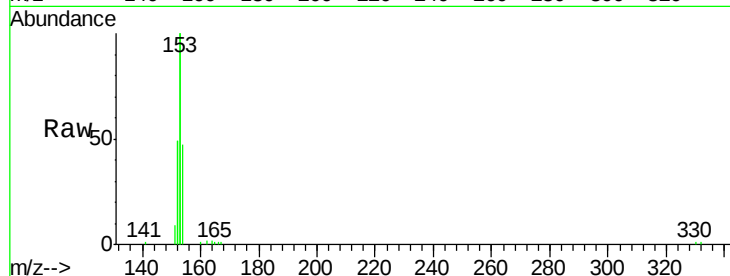
Tgt Ion:154 Resp: 2734

Ion Ratio Lower Upper

154 100

153 394.4 327.8 491.6

152 189.8 157.6 236.4



#11

Fluorene

Concen: 0.31 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

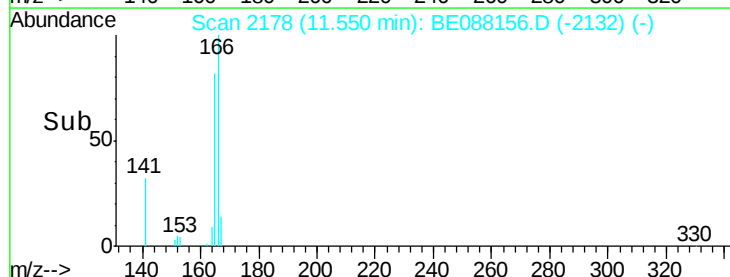
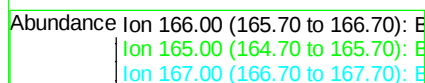
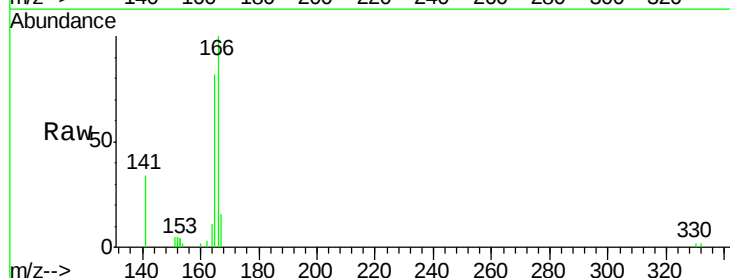
Tgt Ion:166 Resp: 3457

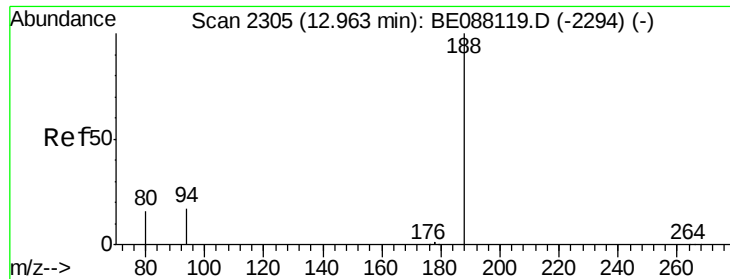
Ion Ratio Lower Upper

166 100

165 89.1 71.4 107.2

167 13.7 10.6 16.0

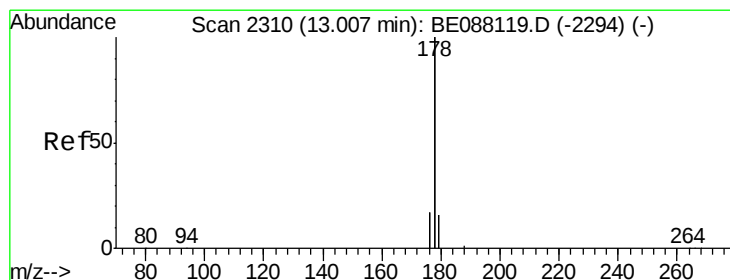
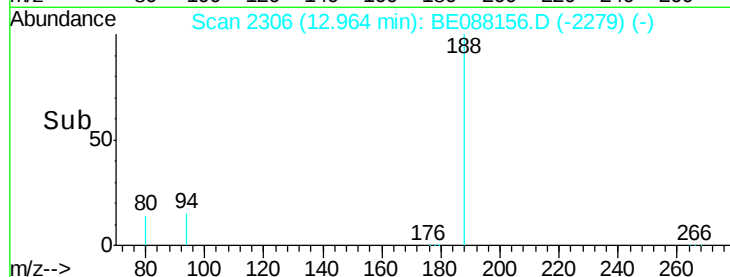
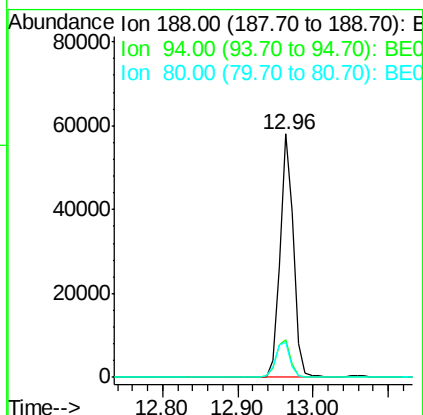
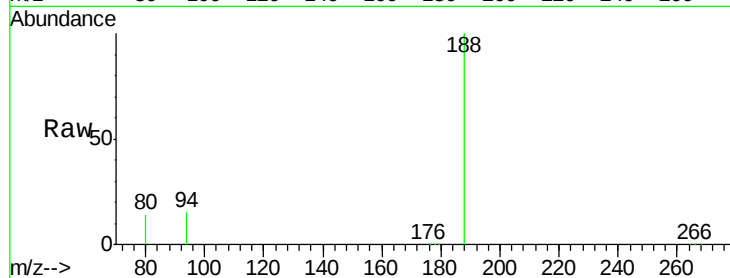




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

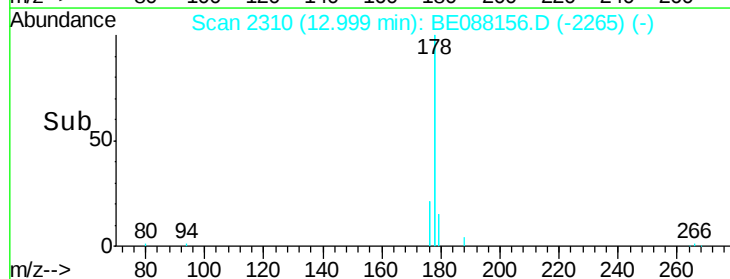
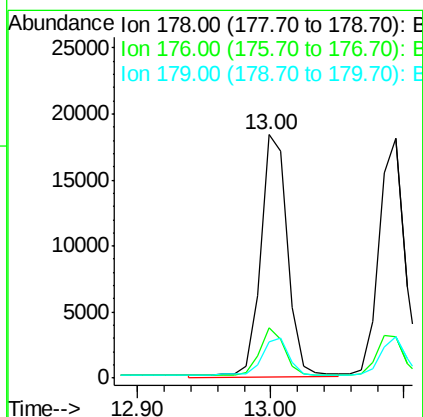
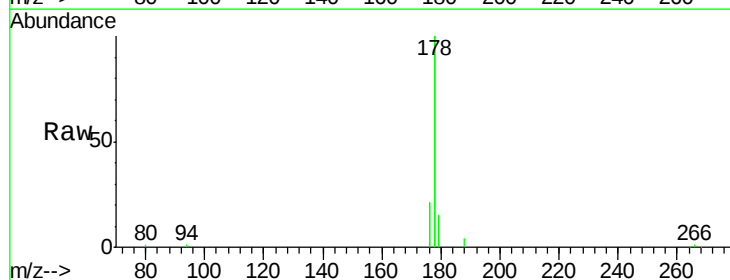
Instrument :
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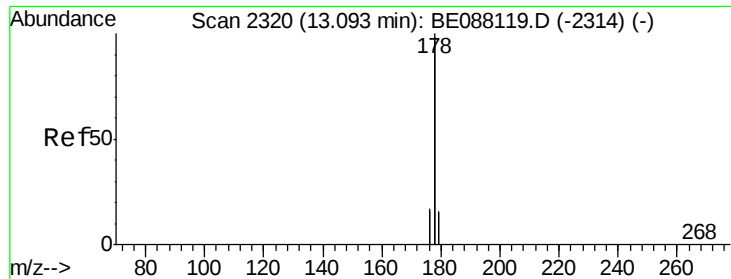
Tgt Ion:188 Resp: 87046
Ion Ratio Lower Upper
188 100
94 15.5 13.9 20.9
80 14.2 12.9 19.3



#13
Phenanthrene
Concen: 0.19 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion:178 Resp: 25880
Ion Ratio Lower Upper
178 100
176 18.0 12.5 18.7
179 18.1 13.5 20.3





#14

Anthracene

Concen: 0.36 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

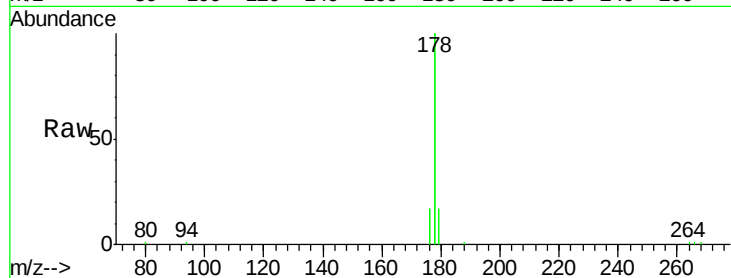
Tgt Ion:178 Resp: 24755

Ion Ratio Lower Upper

178 100

176 17.4 14.6 21.8

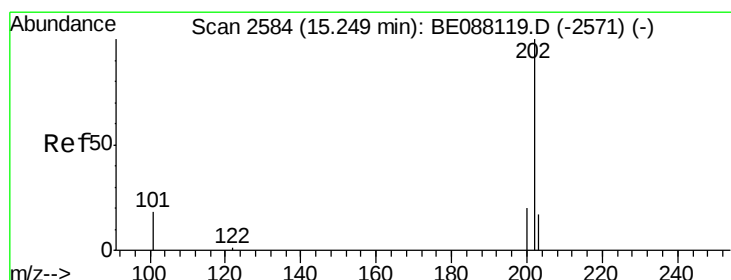
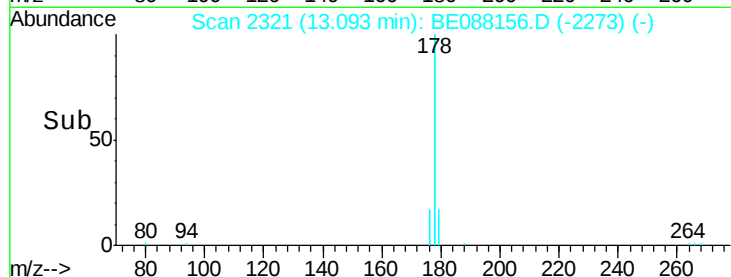
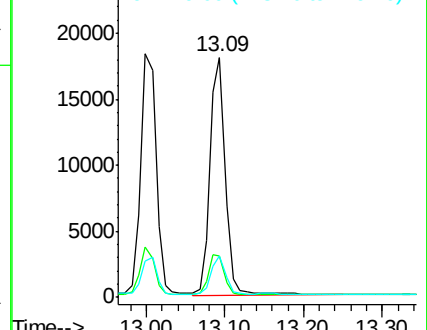
179 15.0 12.5 18.7



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



#15

Fluoranthene

Concen: 0.39 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

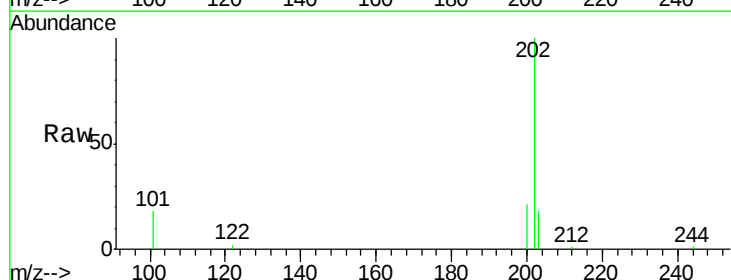
Tgt Ion:202 Resp: 6438

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

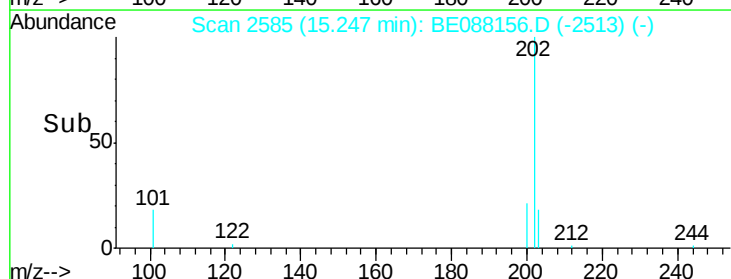
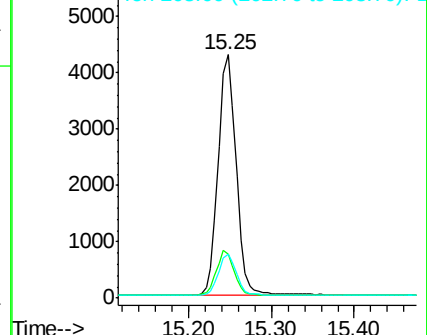
203 16.8 13.5 20.3

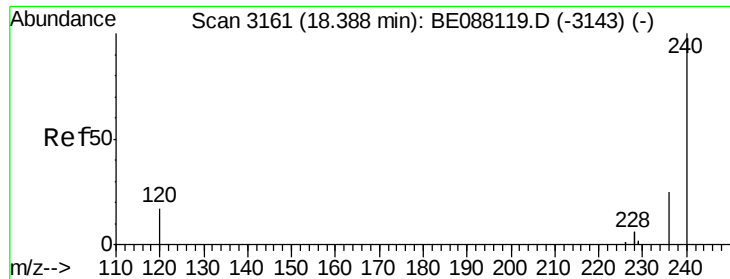


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

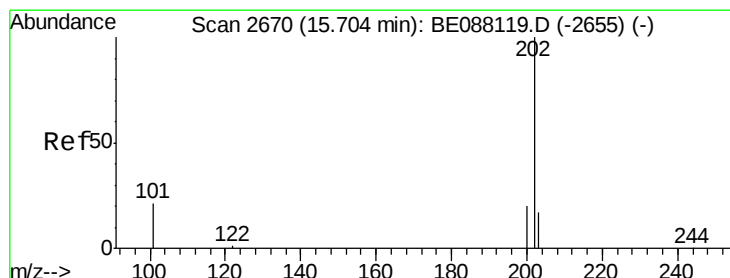
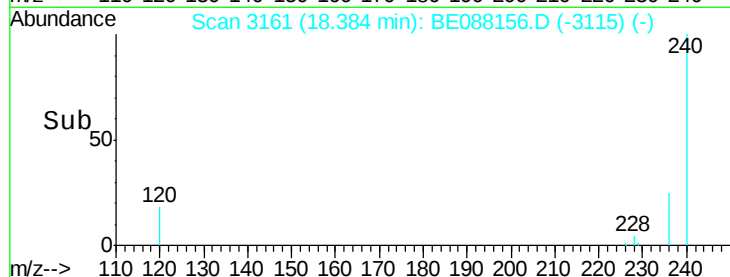
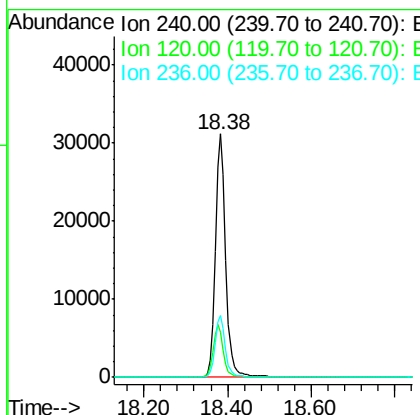
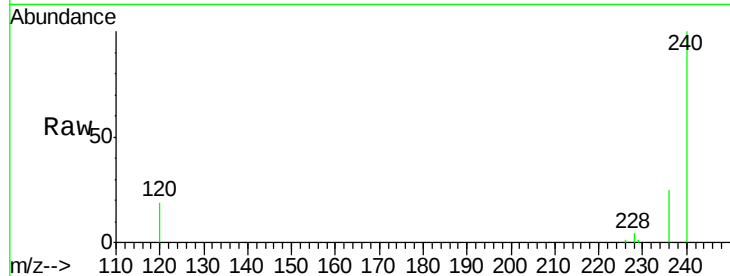




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

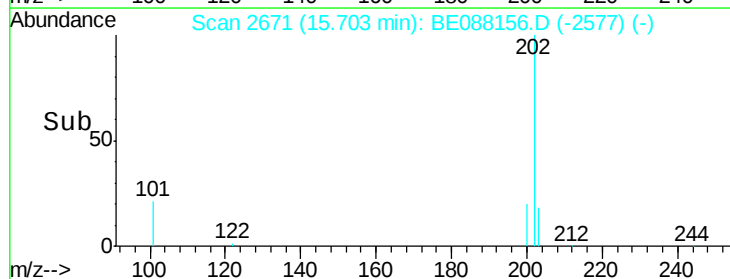
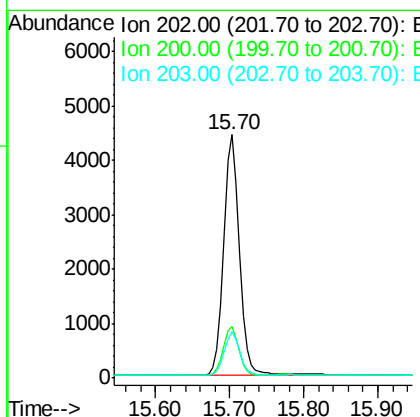
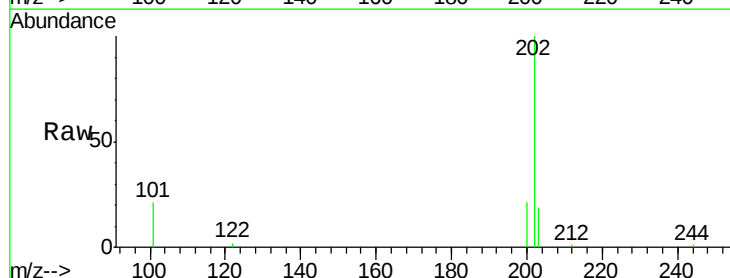
Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

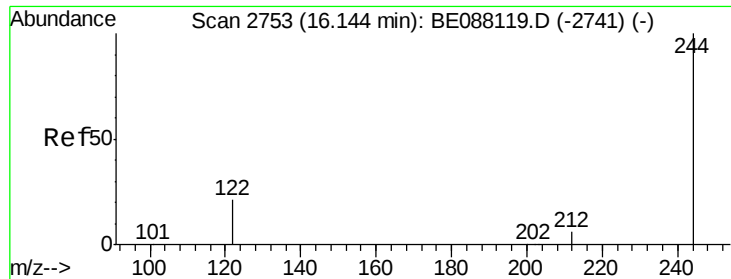
Tgt Ion:240 Resp: 53429
Ion Ratio Lower Upper
240 100
120 18.6 13.9 20.9
236 25.3 19.9 29.9



#17
Pyrene
Concen: 0.46 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion:202 Resp: 6686
Ion Ratio Lower Upper
202 100
200 20.1 16.1 24.1
203 17.6 13.9 20.9





#18

Terphenyl-d14

Concen: 10.23 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

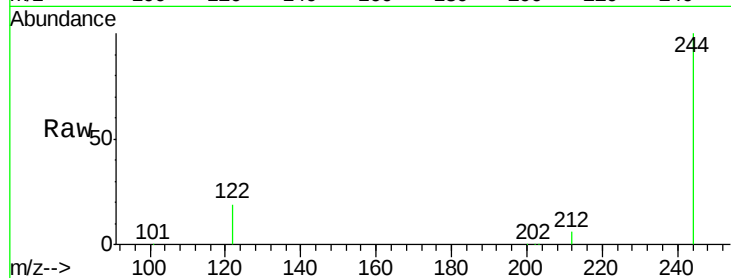
Tgt Ion:244 Resp: 87927

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

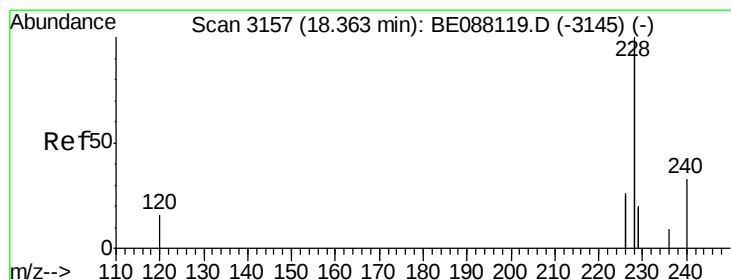
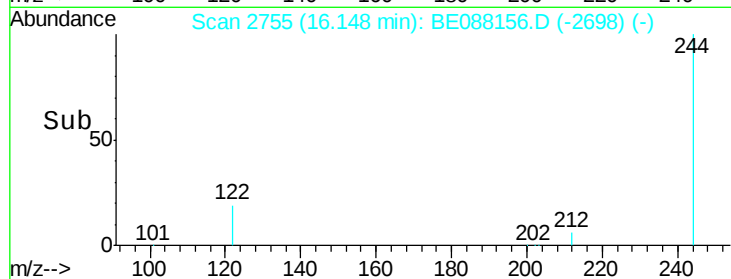
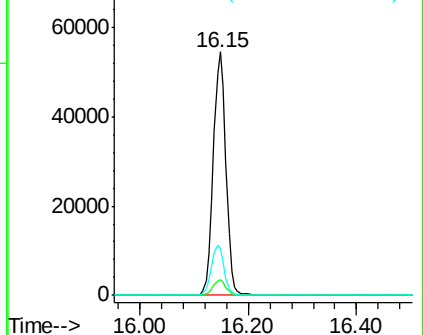
122 19.2 17.5 26.3



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



#19

Benzo(a)anthracene

Concen: 0.43 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

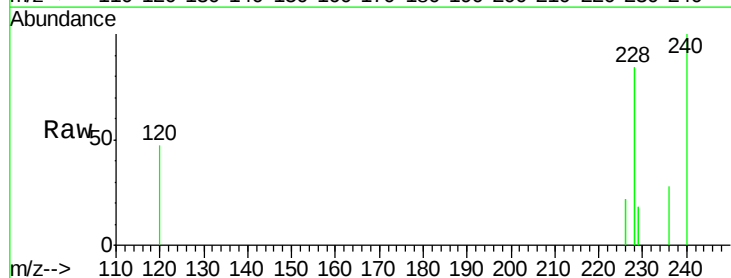
Tgt Ion:228 Resp: 20310

Ion Ratio Lower Upper

228 100

226 26.2 20.8 31.2

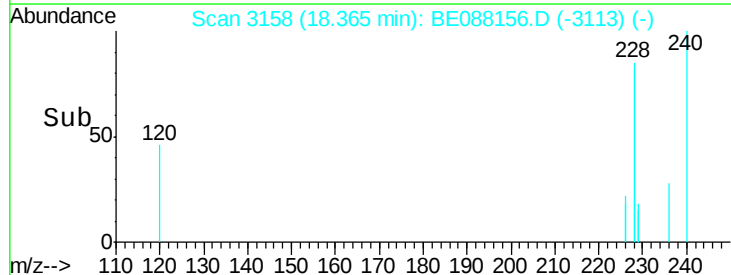
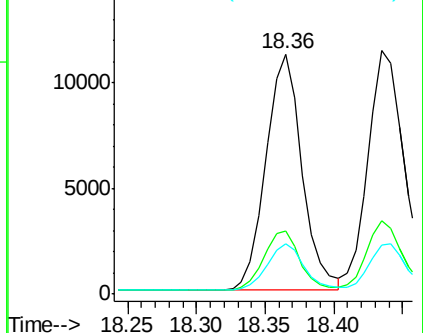
229 21.0 15.6 23.4

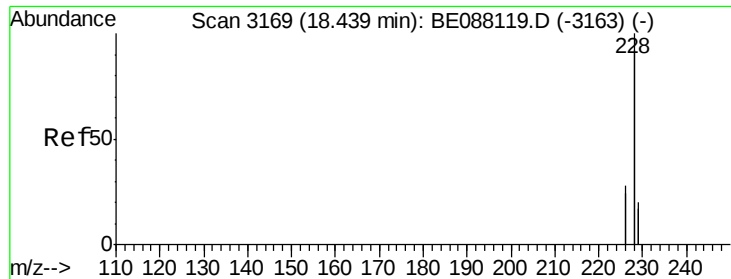


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.47 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

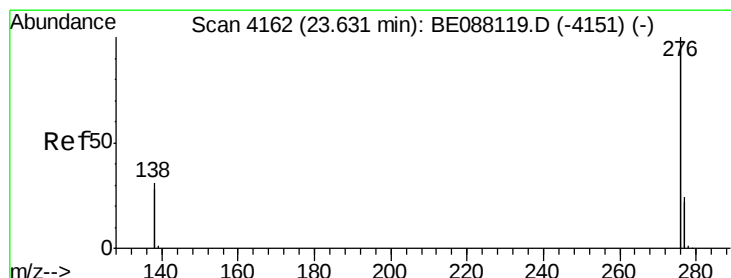
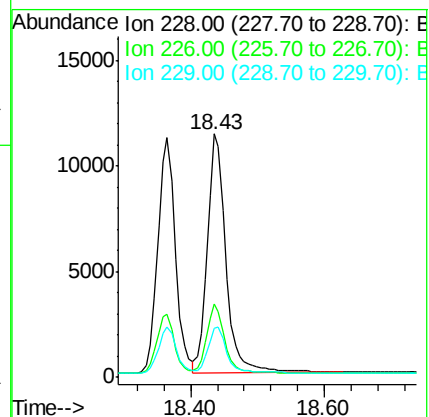
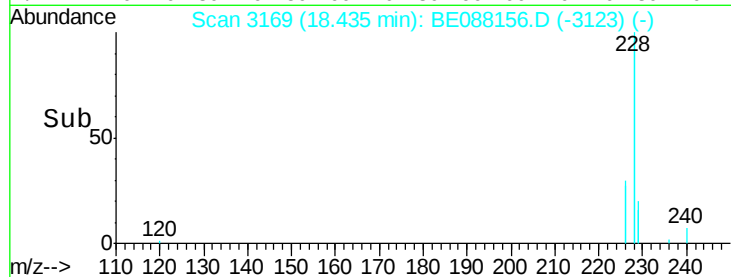
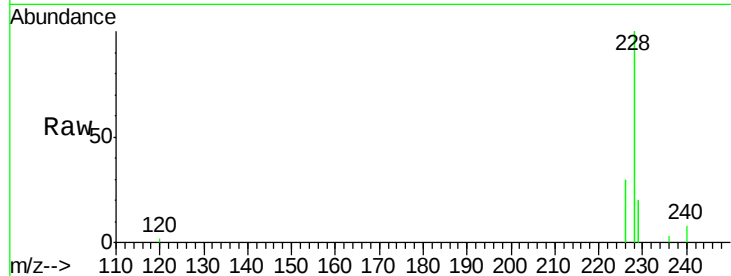
Tgt Ion:228 Resp: 21714

Ion Ratio Lower Upper

228 100

226 30.3 22.7 34.1

229 20.4 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.21 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

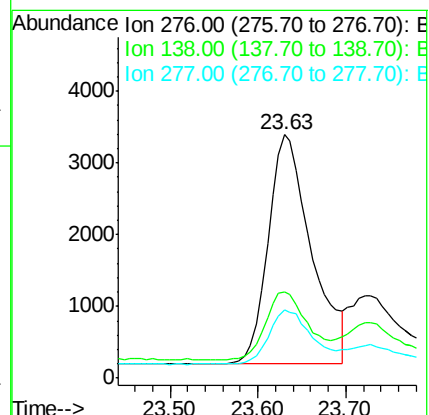
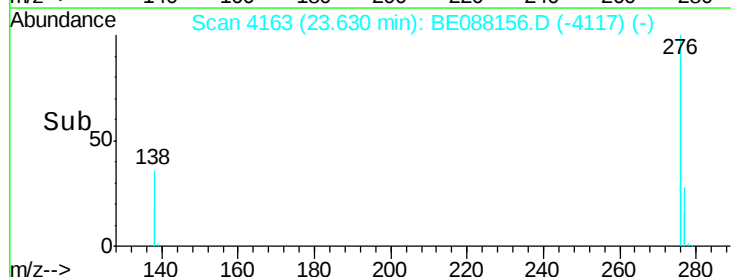
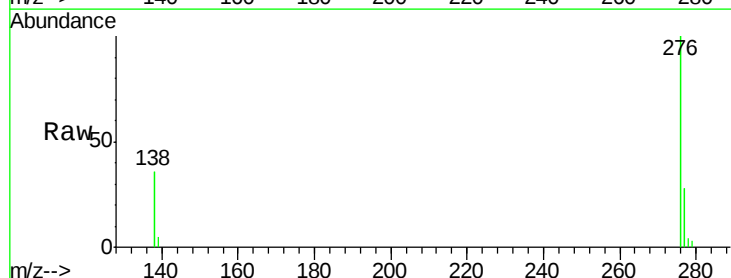
Tgt Ion:276 Resp: 10959

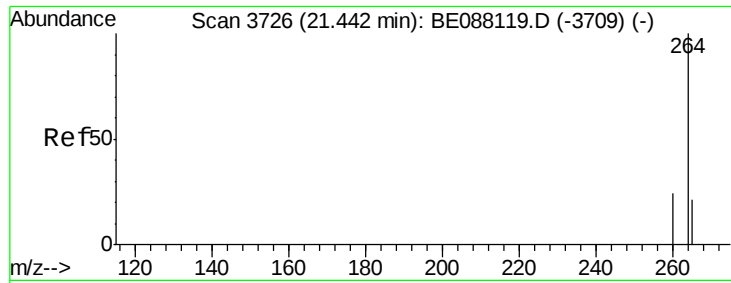
Ion Ratio Lower Upper

276 100

138 28.7 18.5 27.7#

277 23.1 14.6 21.8#

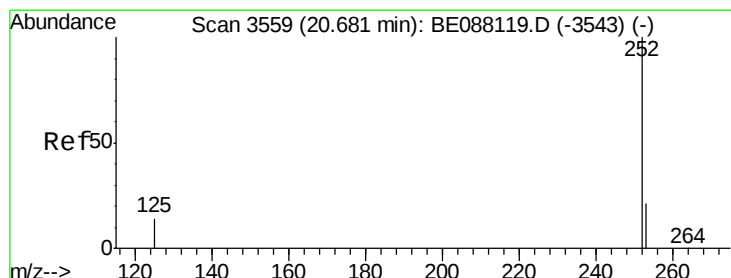
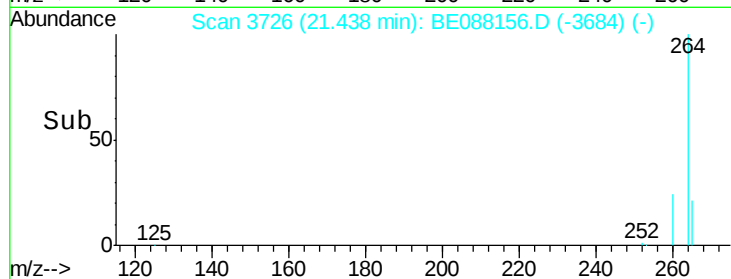
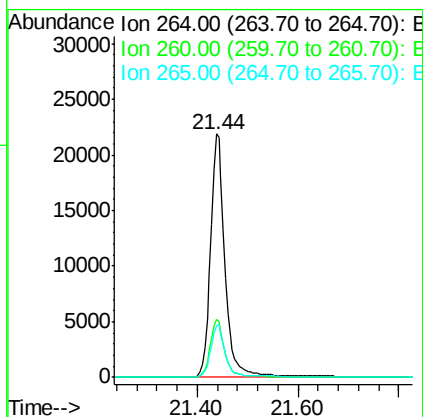
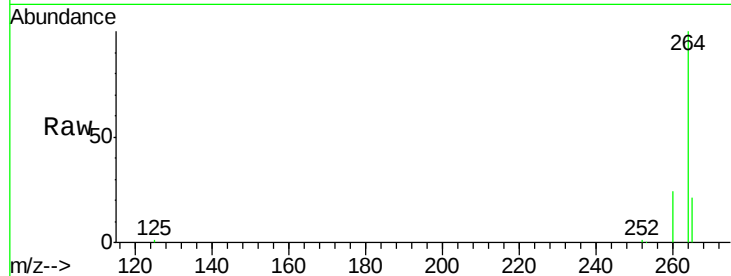




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3726
 Delta R.T. -0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

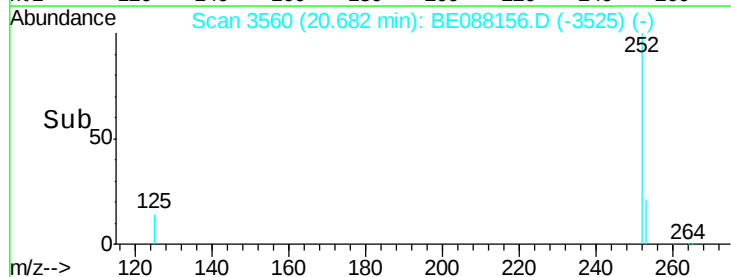
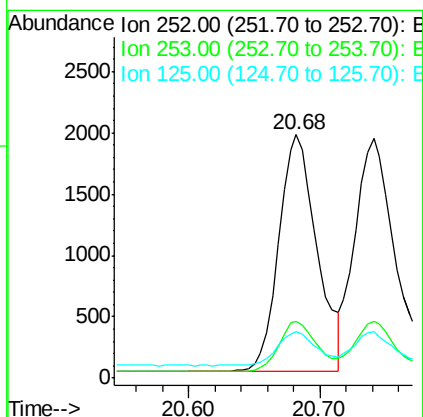
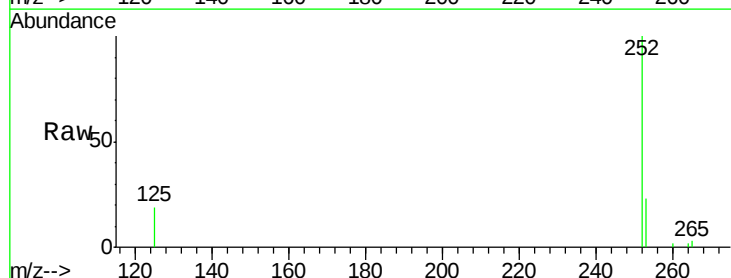
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW11-1014

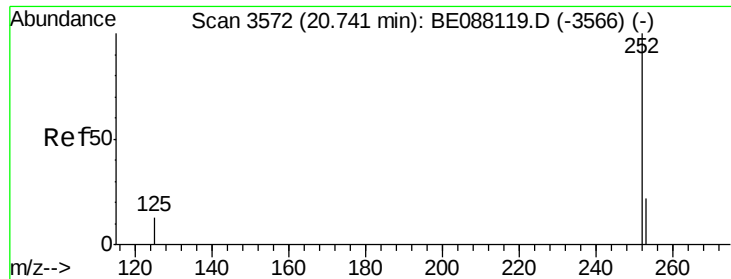
Tgt Ion: 264 Resp: 43004
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.0 28.4
 265 21.3 17.2 25.8



#23
 Benzo(b)fluoranthene
 Concen: 0.38 ng
 RT: 20.68 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088156.D
 Acq: 21 Oct 2014 23:01

Tgt Ion: 252 Resp: 3937
 Ion Ratio Lower Upper
 252 100
 253 23.5 17.4 26.0
 125 19.1 11.8 17.8#





#24

Benzo(k)fluoranthene

Concen: 0.39 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

Instrument :

BNA_E

ClientSampleId :

YS19-SW11-1014

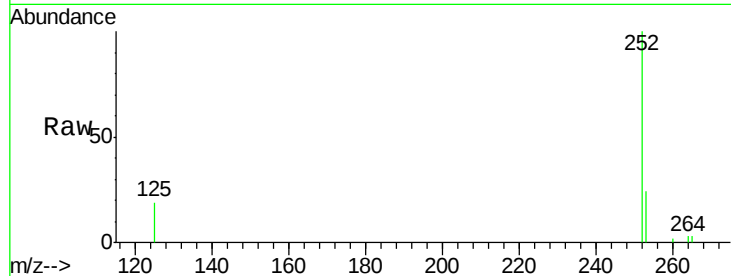
Tgt Ion:252 Resp: 4266

Ion Ratio Lower Upper

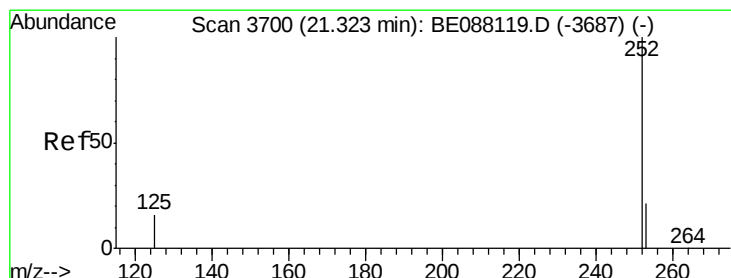
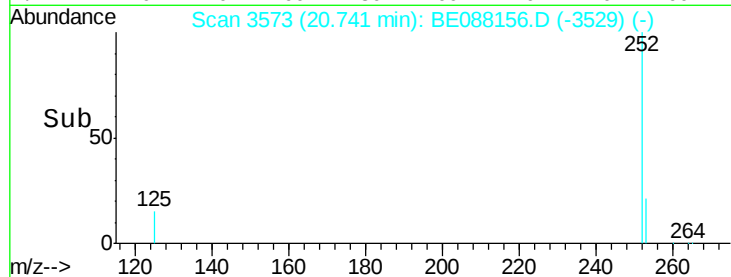
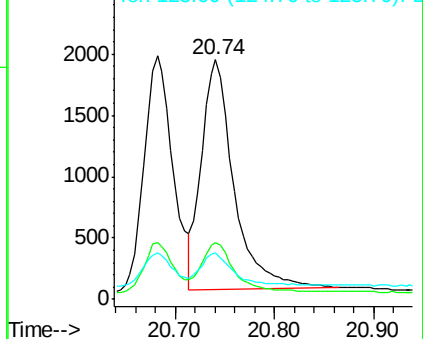
252 100

253 23.5 17.6 26.4

125 19.5 11.5 17.3#



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



#25

Benzo(a)pyrene

Concen: 0.36 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088156.D

Acq: 21 Oct 2014 23:01

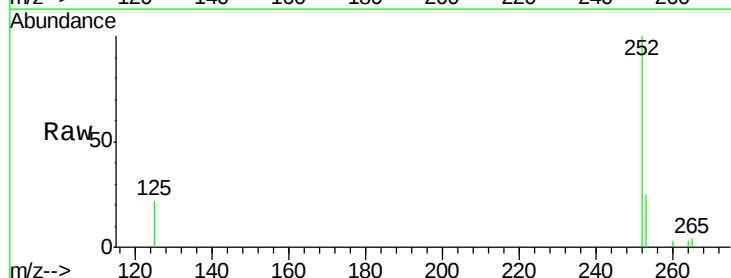
Tgt Ion:252 Resp: 3437

Ion Ratio Lower Upper

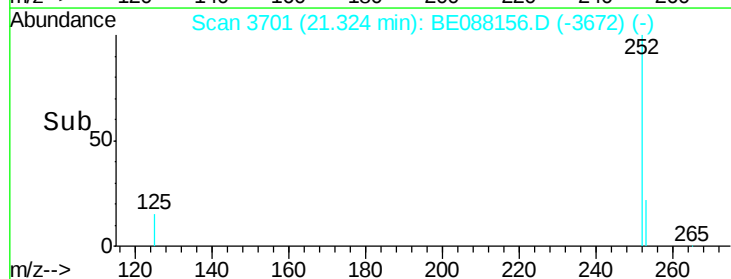
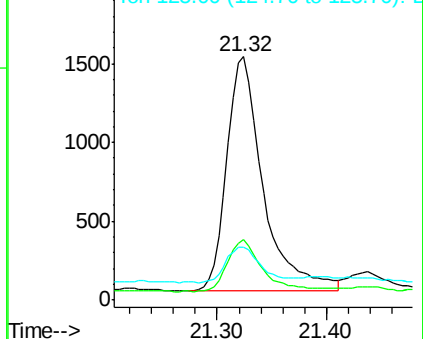
252 100

253 24.7 17.5 26.3

125 21.8 13.0 19.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

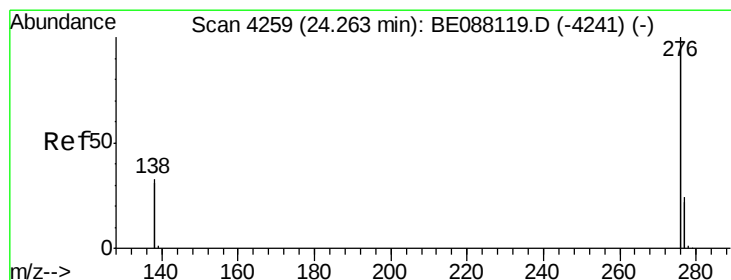
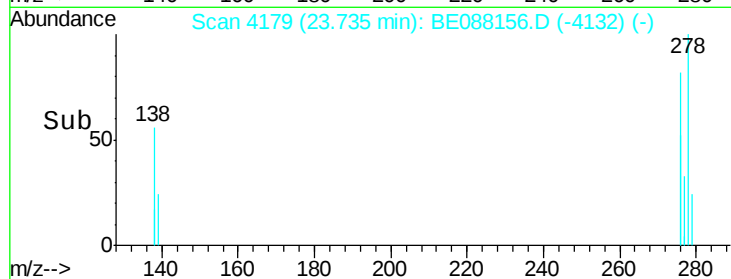
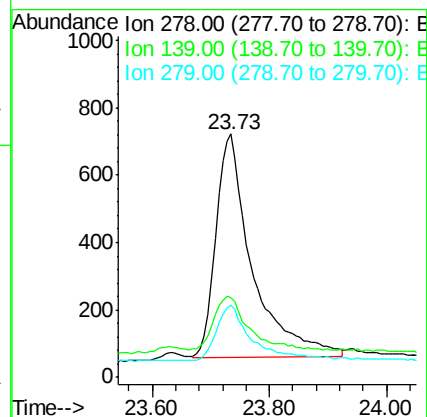
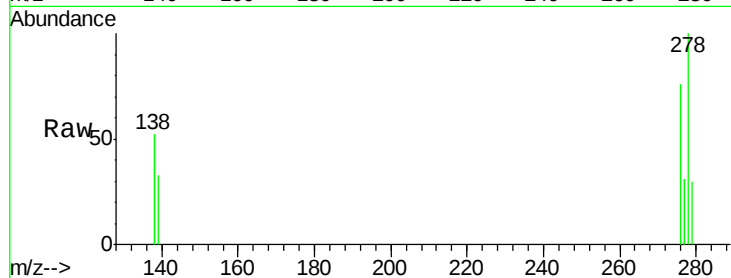




#26
Dibenzo(a,h)anthracene
Concen: 0.31 ng
RT: 23.73 min Scan# 4179
Delta R.T. 0.01 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Instrument :
BNA_E
ClientSampleId :
YS19-SW11-1014

Tgt Ion: 278 Resp: 2853
Ion Ratio Lower Upper
278 100
139 32.9 20.9 31.3#
279 29.6 19.8 29.8



#27
Benzo(g,h,i)perylene
Concen: 0.35 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088156.D
Acq: 21 Oct 2014 23:01

Tgt Ion: 276 Resp: 14437
Ion Ratio Lower Upper
276 100
277 26.7 19.2 28.8
138 36.6 26.6 40.0

