

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102214\
 Data File : BE088197.D
 Acq On : 22 Oct 2014 23:51
 Operator : TP/JJ
 Sample : F4351-19
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW15-1014

Quant Time: Oct 27 04:55:23 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

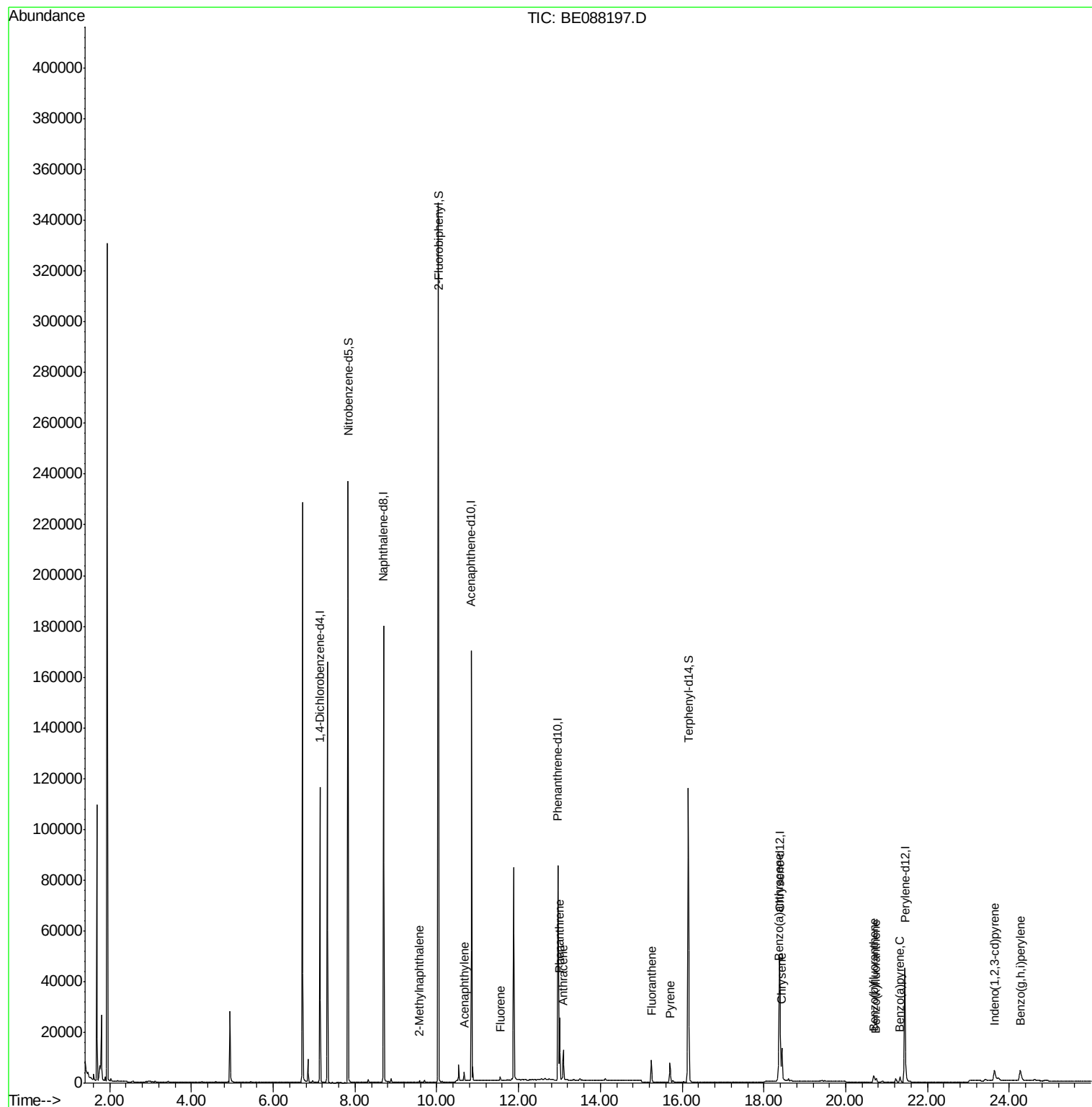
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	32165	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	129892	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	62614	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	107246	5.00	ng	0.00
16) Chrysene-d12	18.39	240	57320	5.00	ng	0.00
22) Perylene-d12	21.45	264	59217	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	104602	11.17	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	208617	12.06	ng	0.00
18) Terphenyl-d14	16.15	244	150552	16.32	ng	0.00
Target Compounds						Qvalue
6) 2-Methylnaphthalene	9.57	142	366	0.02	ng	# 89
9) Acenaphthylene	10.67	152	3377	0.04	ng	98
11) Fluorene	11.55	166	770	0.05	ng	98
13) Phenanthrene	13.01	178	22637	0.06	ng	# 92
14) Anthracene	13.09	178	10809	0.13	ng	# 91
15) Fluoranthene	15.25	202	8564	0.42	ng	99
17) Pyrene	15.70	202	6831	0.44	ng	96
19) Benzo(a)anthracene	18.36	228	15147	0.30	ng	96
20) Chrysene	18.44	228	17276	0.35	ng	96
21) Indeno(1,2,3-cd)pyrene	23.64	276	10058	0.18	ng	96
23) Benzo(b)fluoranthene	20.69	252	4608	0.33	ng	# 92
24) Benzo(k)fluoranthene	20.74	252	2528	0.17	ng	# 87
25) Benzo(a)pyrene	21.32	252	3028	0.23	ng	# 91
27) Benzo(g,h,i)perylene	24.27	276	9444	0.17	ng	# 89

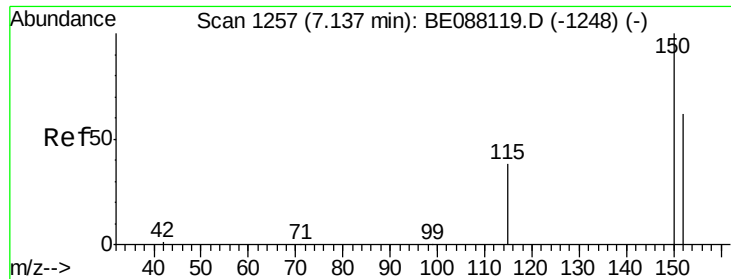
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

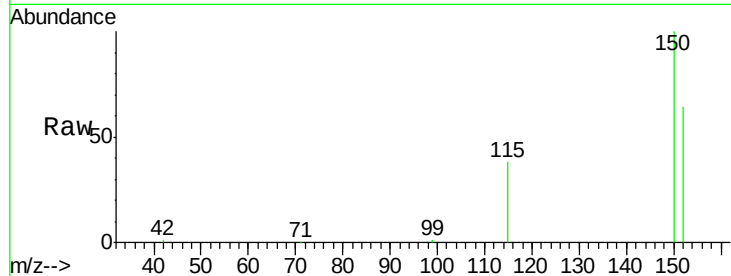
Tgt Ion:152 Resp: 32165

Ion Ratio Lower Upper

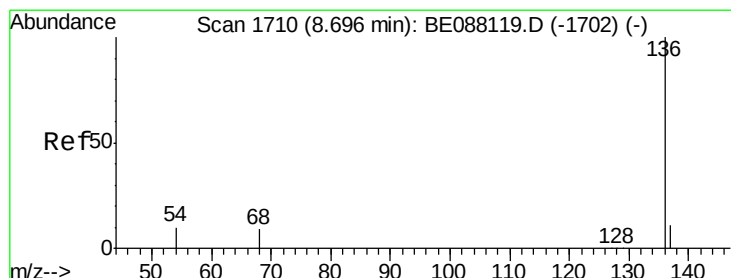
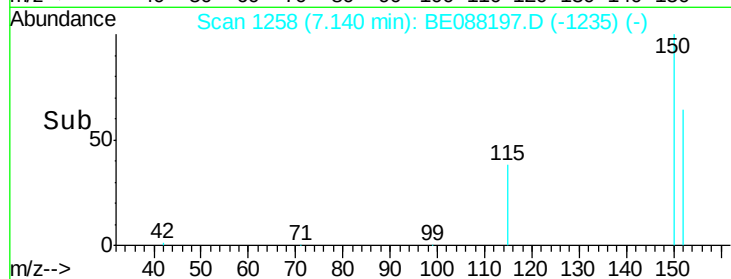
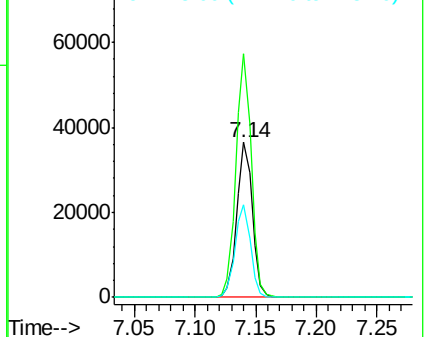
152 100

150 157.3 129.2 193.8

115 59.6 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# 1712

Delta R.T. 0.01 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

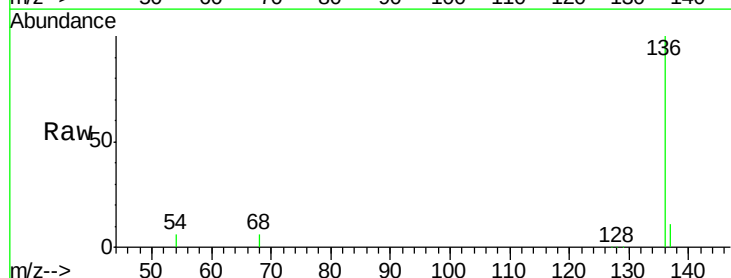
Tgt Ion:136 Resp: 129892

Ion Ratio Lower Upper

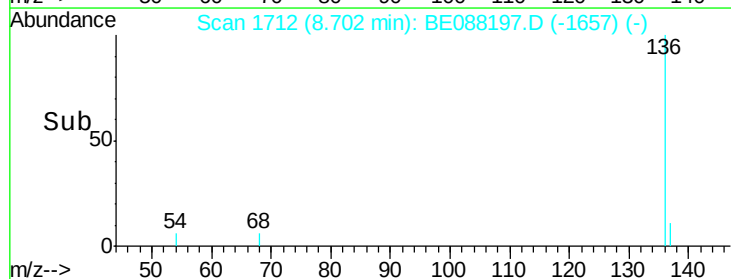
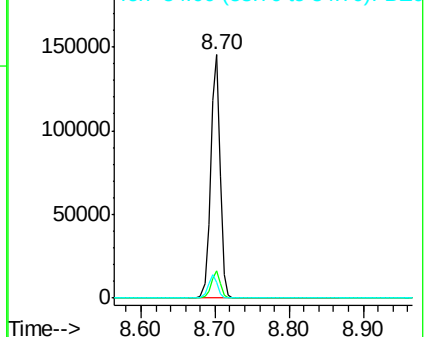
136 100

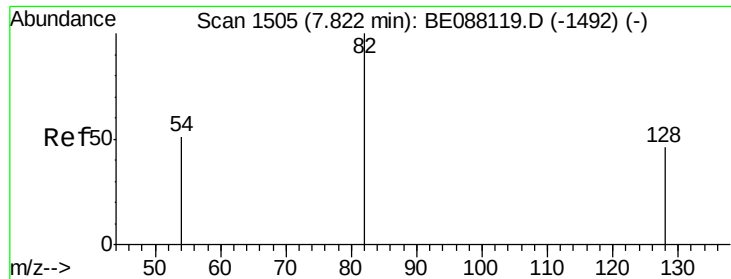
137 11.1 8.6 12.8

54 6.4 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: 11.17 ng

RT: 7.83 min Scan# 1508

Delta R.T. 0.01 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

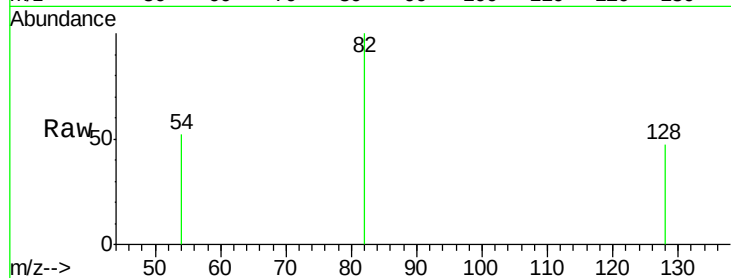
Tgt Ion: 82 Resp: 104602

Ion Ratio Lower Upper

82 100

128 47.4 37.1 55.7

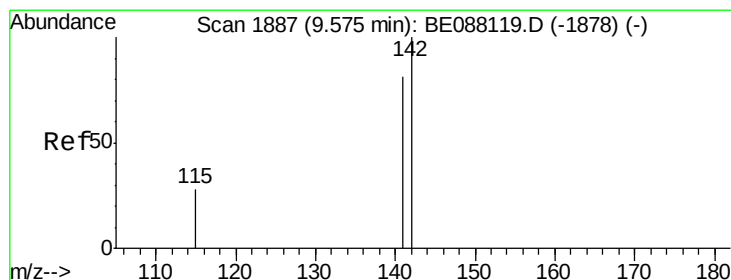
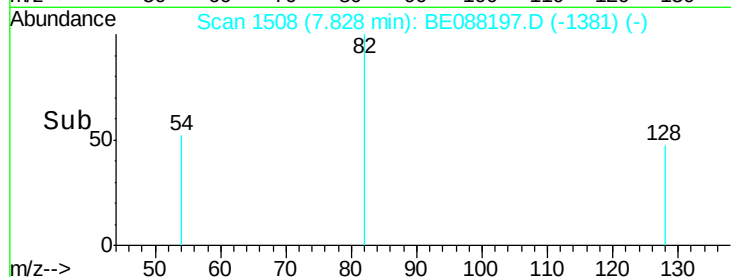
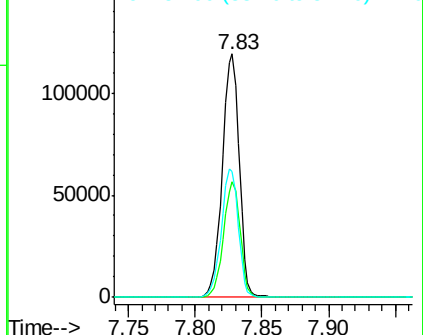
54 51.8 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

2-Methylnaphthalene

Concen: 0.02 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

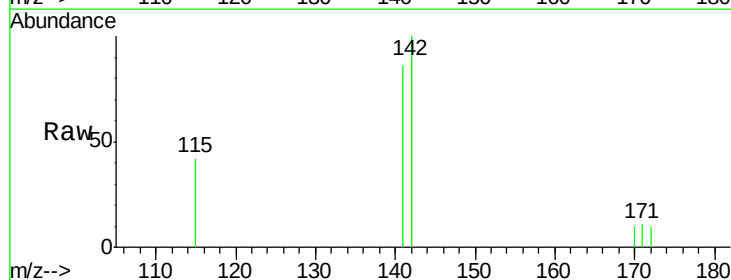
Tgt Ion: 142 Resp: 366

Ion Ratio Lower Upper

142 100

141 85.8 64.6 97.0

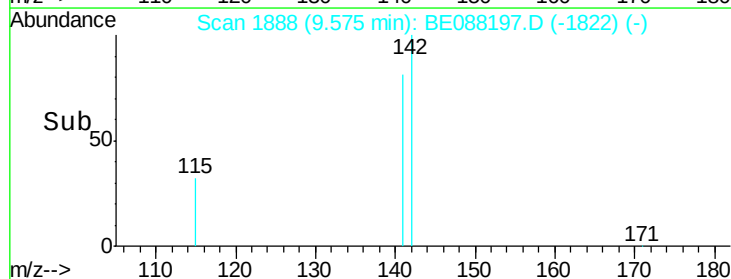
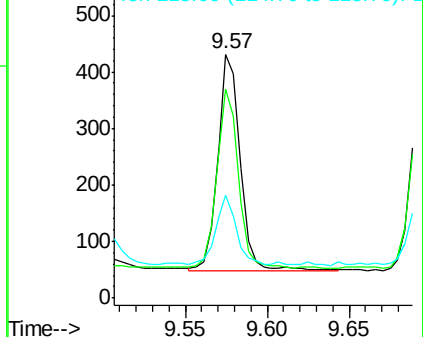
115 42.2 22.6 34.0#

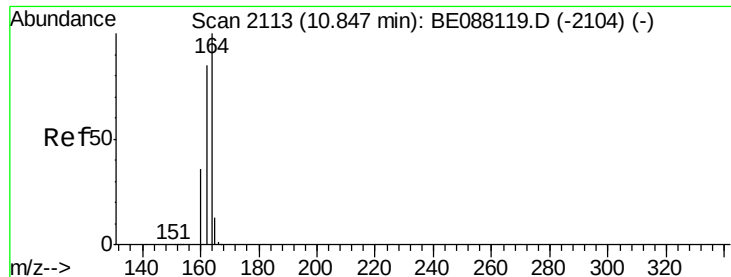


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

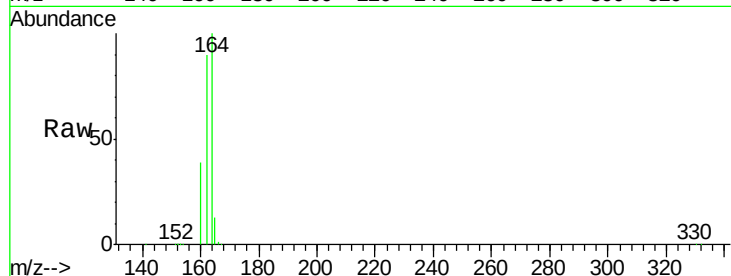
Tgt Ion:164 Resp: 62614

Ion Ratio Lower Upper

164 100

162 89.7 68.3 102.5

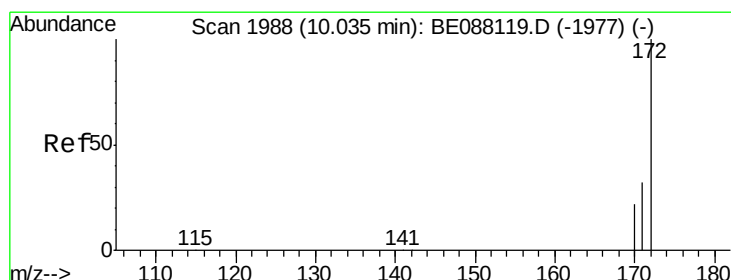
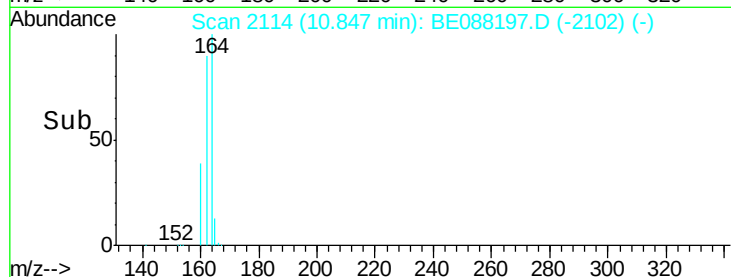
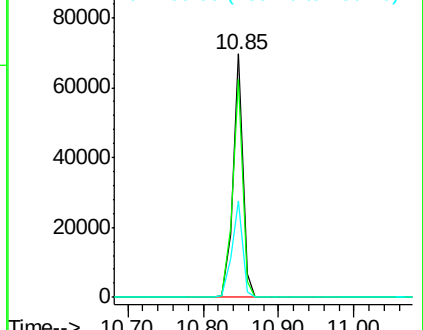
160 39.4 28.7 43.1



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: 12.06 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

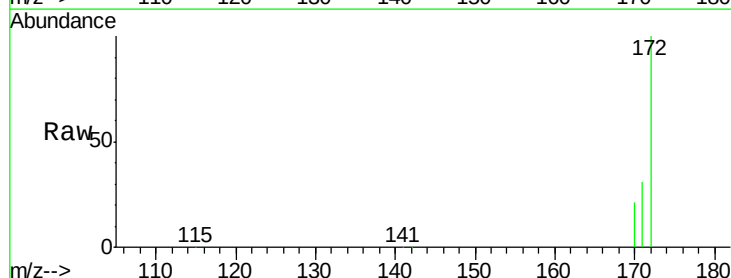
Tgt Ion:172 Resp: 208617

Ion Ratio Lower Upper

172 100

171 31.5 25.4 38.2

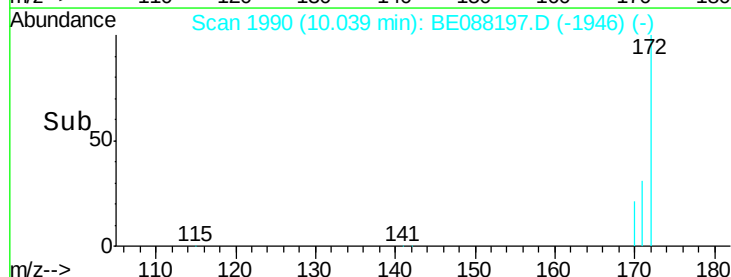
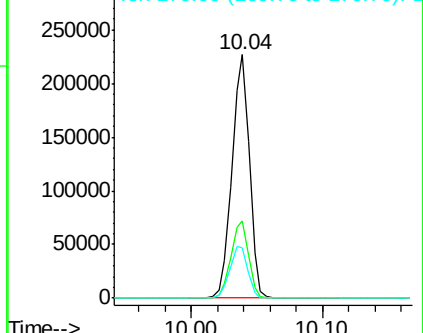
170 20.8 17.4 26.2

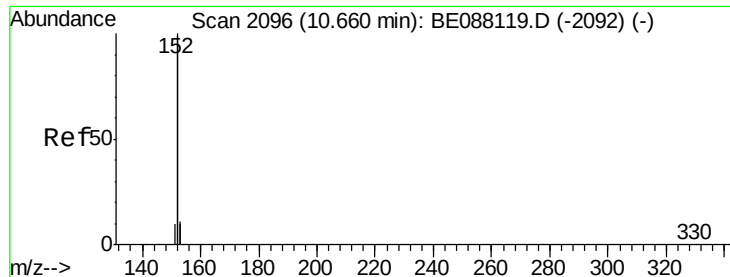


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.04 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

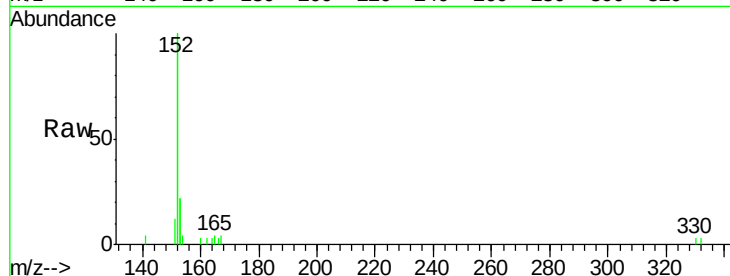
Tgt Ion:152 Resp: 3377

Ion Ratio Lower Upper

152 100

151 5.2 3.7 5.5

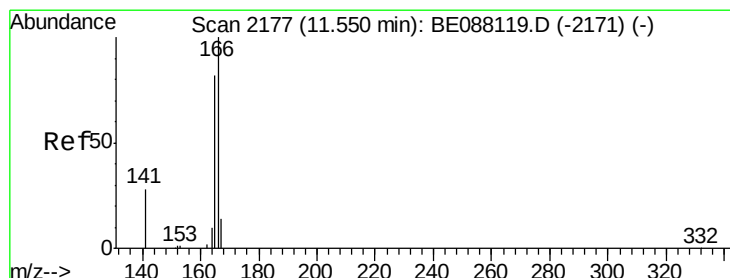
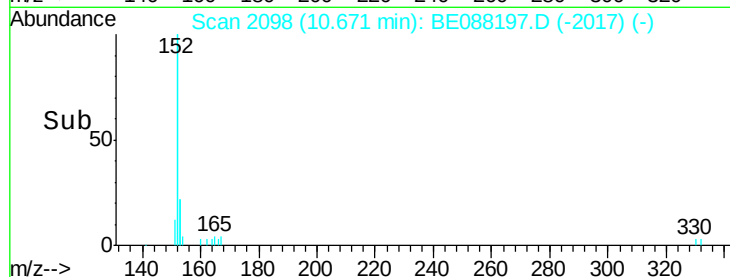
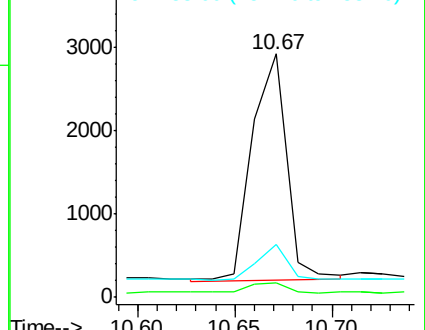
153 13.6 10.4 15.6



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



#11

Fluorene

Concen: 0.05 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

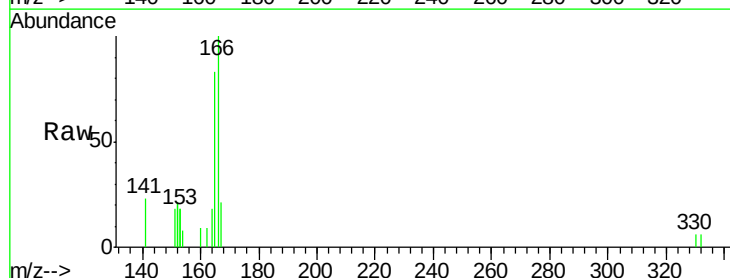
Tgt Ion:166 Resp: 770

Ion Ratio Lower Upper

166 100

165 87.4 71.4 107.2

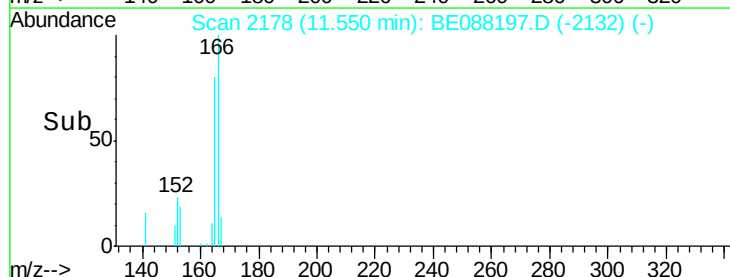
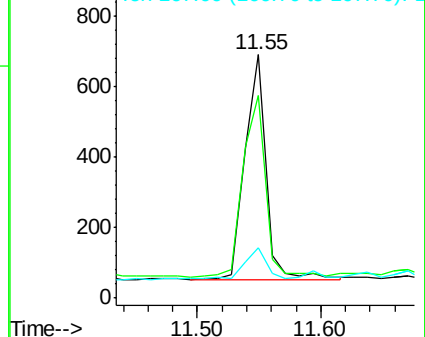
167 14.8 10.6 16.0

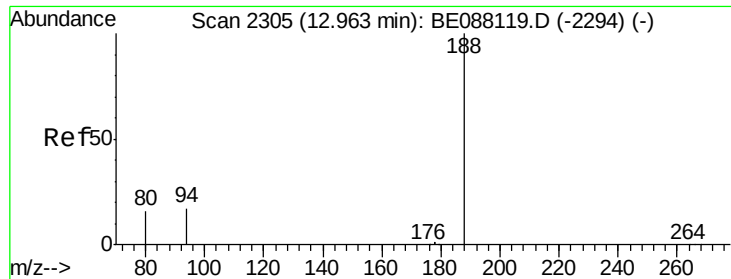


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

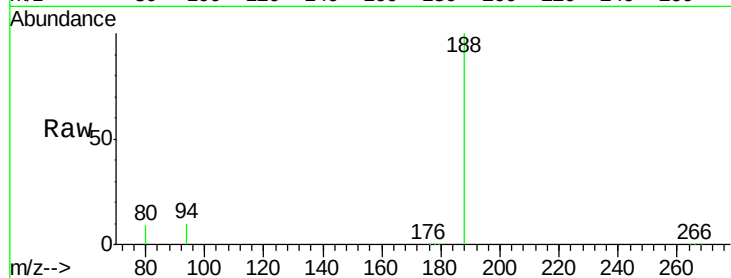




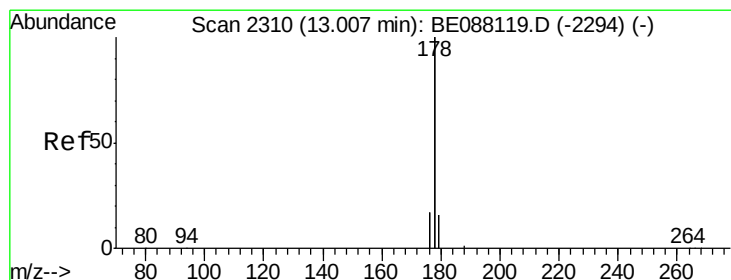
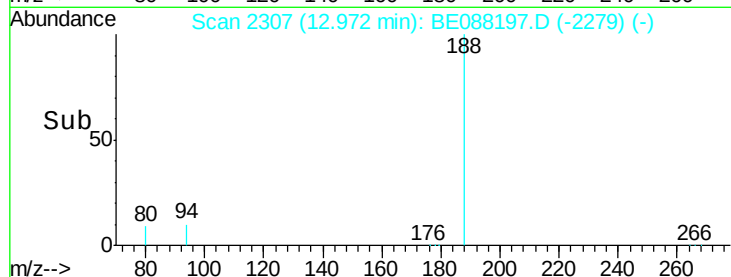
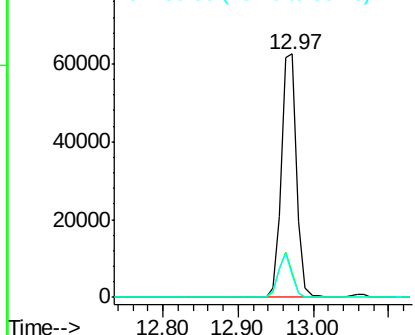
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088197.D
Acq: 22 Oct 2014 23:51

Instrument :
BNA_E
ClientSampleId :
YS19-SW15-1014

Tgt Ion:188 Resp: 107246
Ion Ratio Lower Upper
188 100
94 10.4 13.9 20.9#
80 9.1 12.9 19.3#

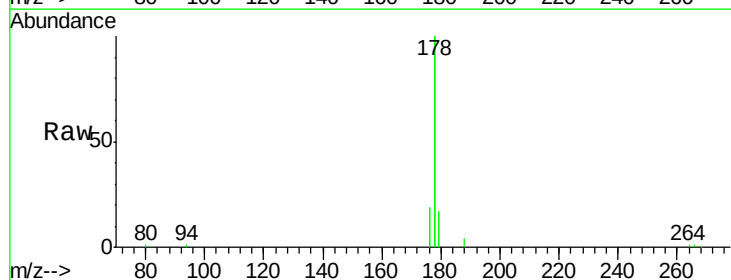


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

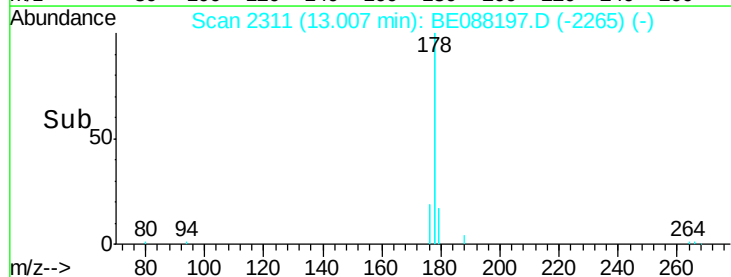
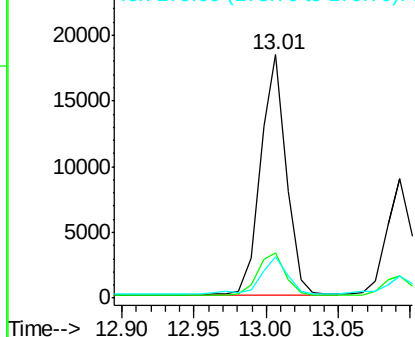


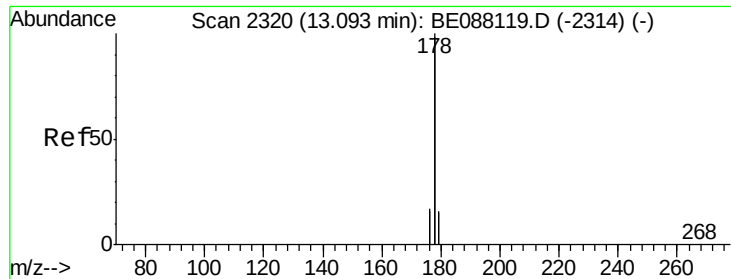
#13
Phenanthrene
Concen: 0.06 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088197.D
Acq: 22 Oct 2014 23:51

Tgt Ion:178 Resp: 22637
Ion Ratio Lower Upper
178 100
176 18.4 12.5 18.7
179 20.9 13.5 20.3#



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





#14

Anthracene

Concen: 0.13 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

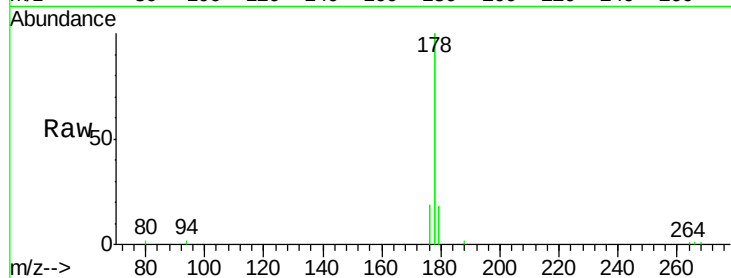
Tgt Ion:178 Resp: 10809

Ion Ratio Lower Upper

178 100

176 17.9 14.6 21.8

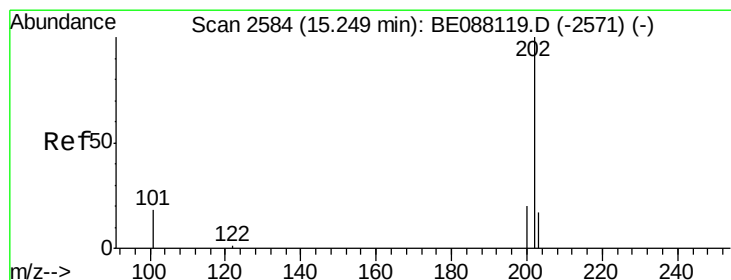
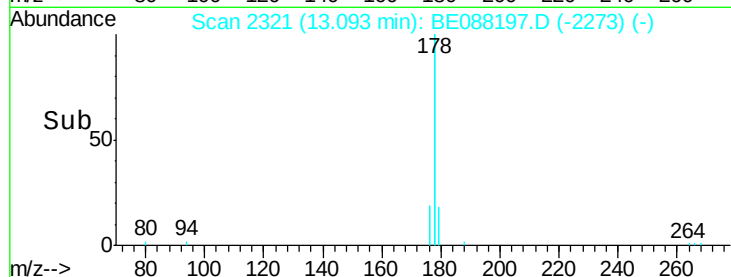
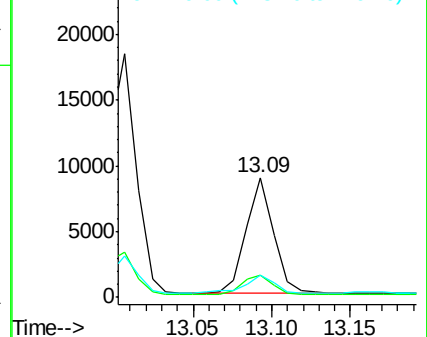
179 23.2 12.5 18.7#



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: 0.42 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

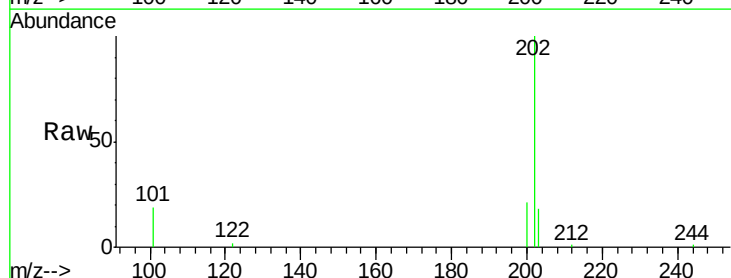
Tgt Ion:202 Resp: 8564

Ion Ratio Lower Upper

202 100

101 18.2 14.8 22.2

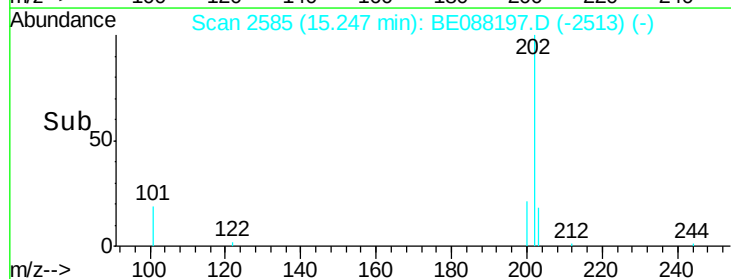
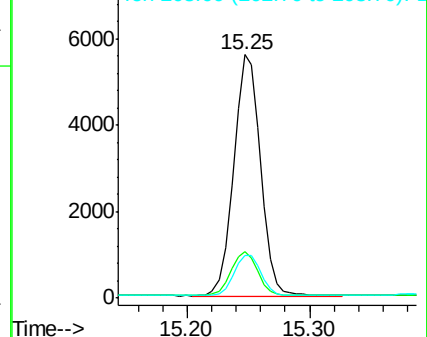
203 17.1 13.5 20.3

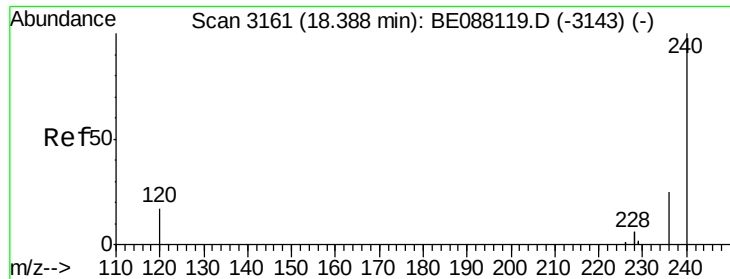


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

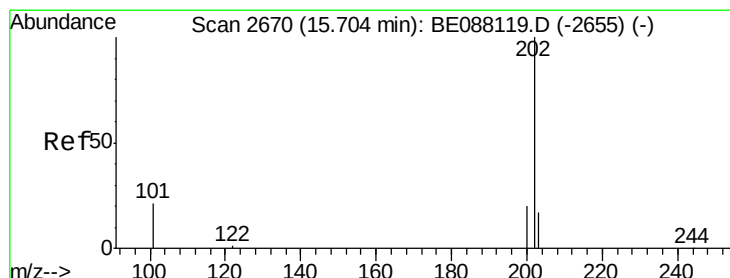
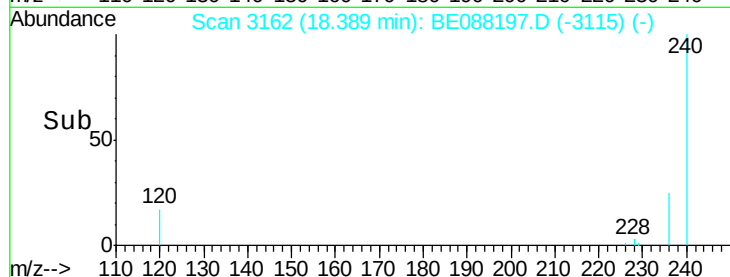
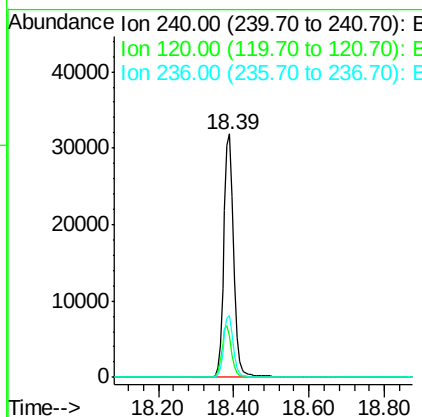
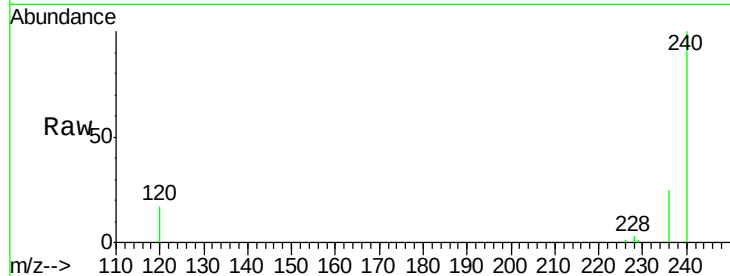




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.39 min Scan# 3162
Delta R.T. 0.00 min
Lab File: BE088197.D
Acq: 22 Oct 2014 23:51

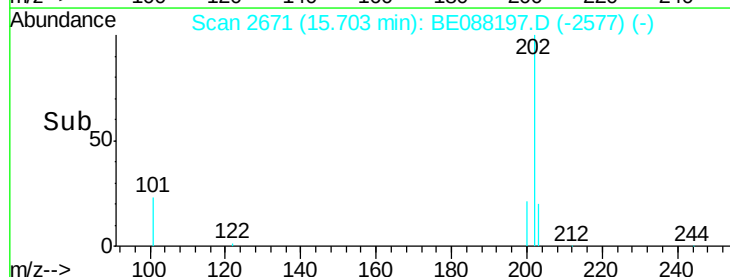
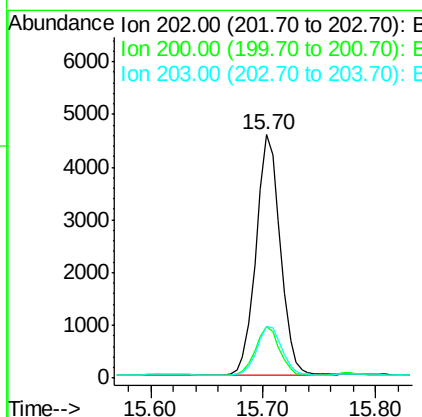
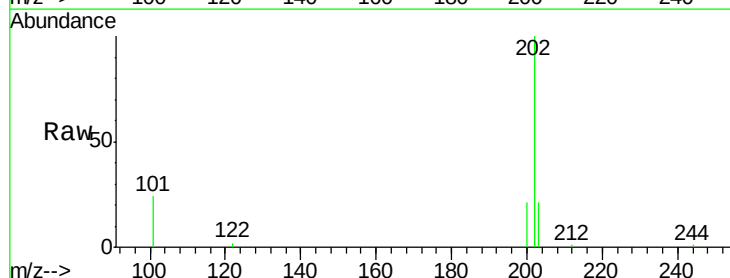
Instrument :
BNA_E
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YS19-SW15-1014

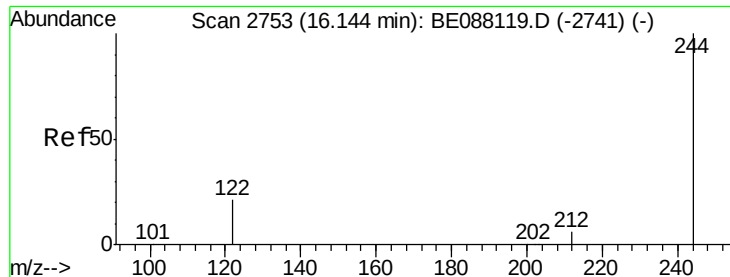
Tgt Ion:240 Resp: 57320
Ion Ratio Lower Upper
240 100
120 17.0 13.9 20.9
236 25.3 19.9 29.9



#17
Pyrene
Concen: 0.44 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088197.D
Acq: 22 Oct 2014 23:51

Tgt Ion:202 Resp: 6831
Ion Ratio Lower Upper
202 100
200 20.4 16.1 24.1
203 20.8 13.9 20.9





#18

Terphenyl-d14

Concen: 16.32 ng

RT: 16.15 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

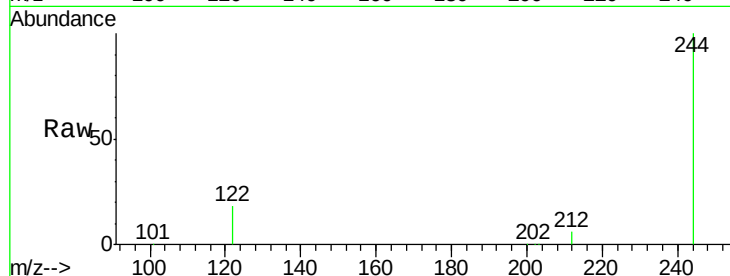
Tgt Ion:244 Resp: 150552

Ion Ratio Lower Upper

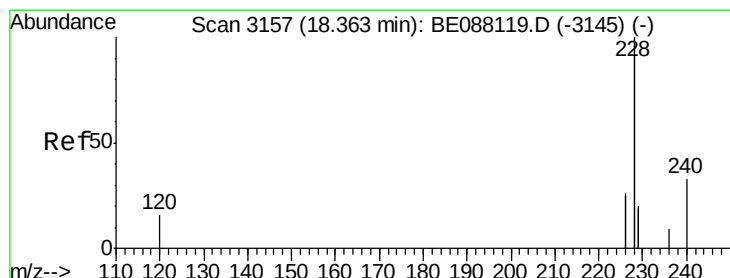
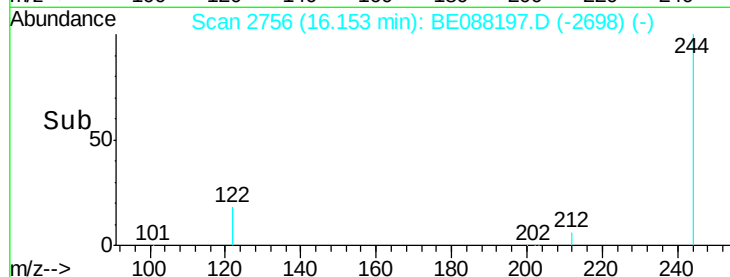
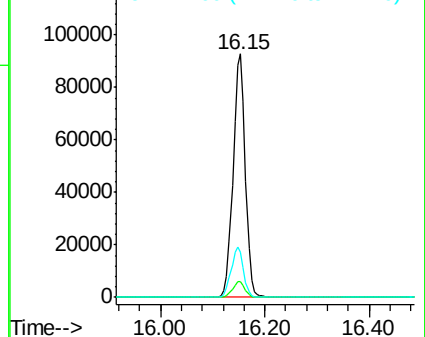
244 100

212 6.4 5.4 8.0

122 18.4 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: 0.30 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

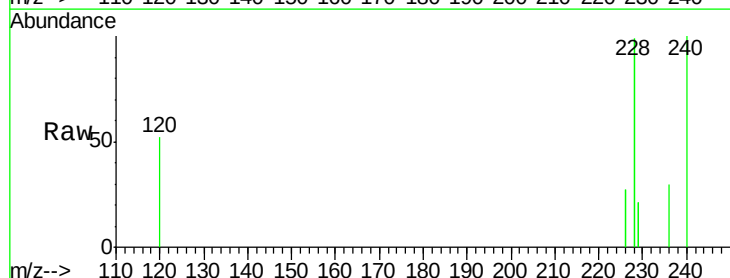
Tgt Ion:228 Resp: 15147

Ion Ratio Lower Upper

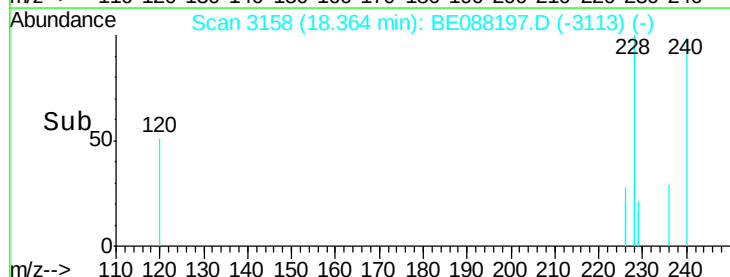
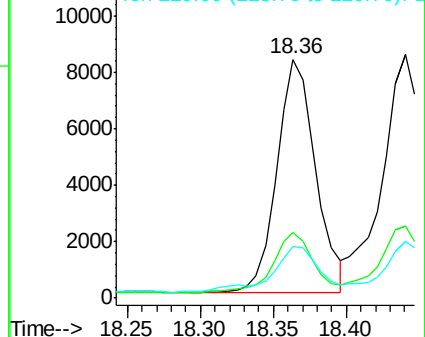
228 100

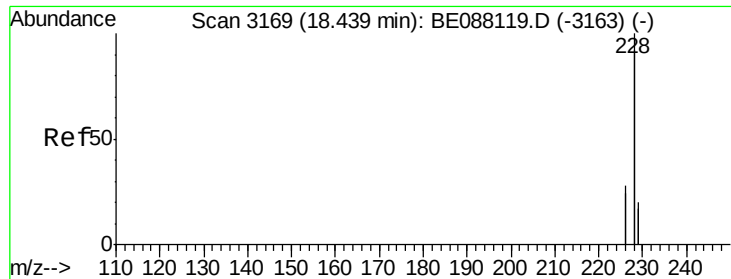
226 27.7 20.8 31.2

229 21.5 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: 0.35 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

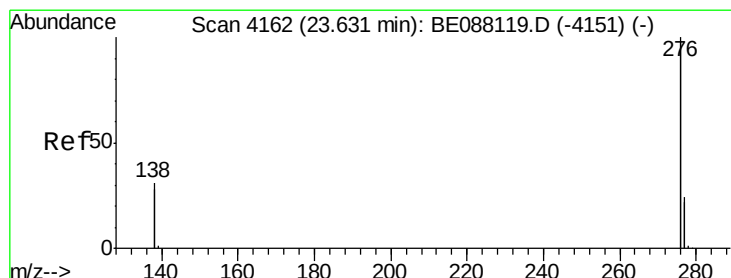
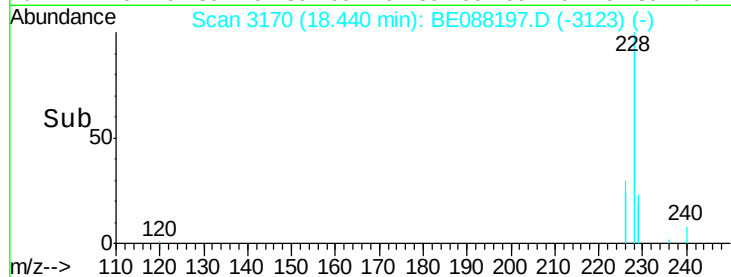
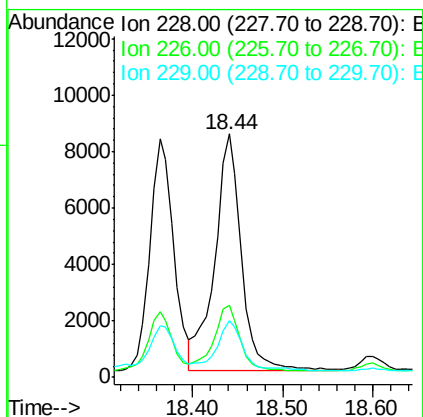
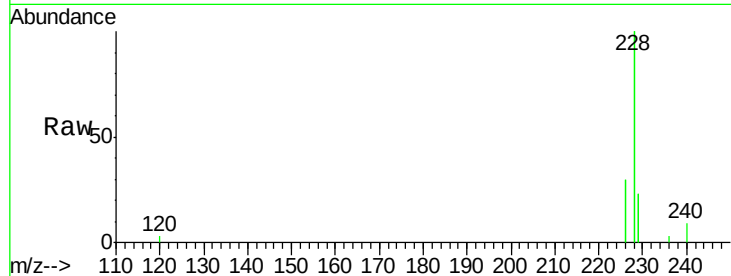
Tgt Ion:228 Resp: 17276

Ion Ratio Lower Upper

228 100

226 29.7 22.7 34.1

229 23.1 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.18 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

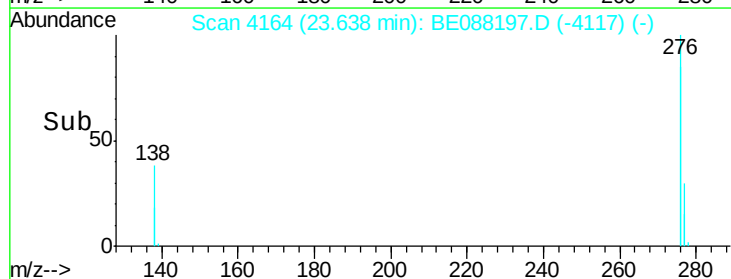
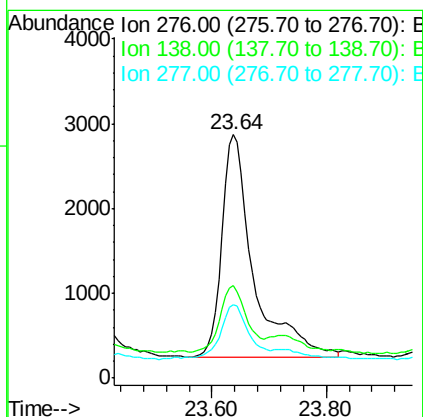
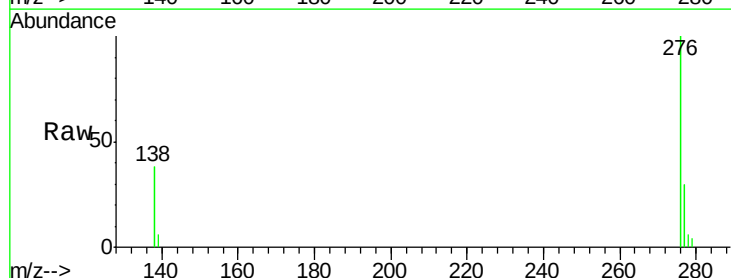
Tgt Ion:276 Resp: 10058

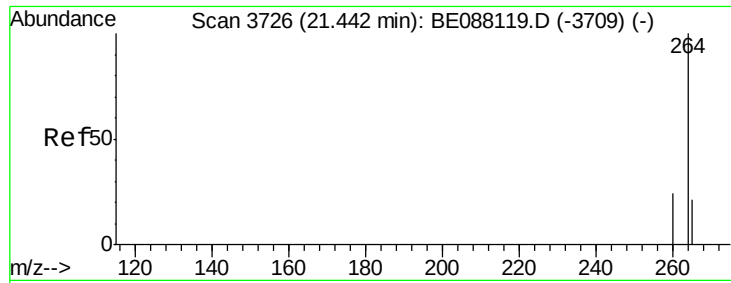
Ion Ratio Lower Upper

276 100

138 25.0 18.5 27.7

277 20.4 14.6 21.8

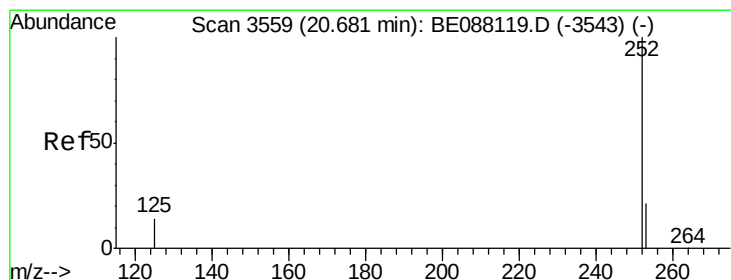
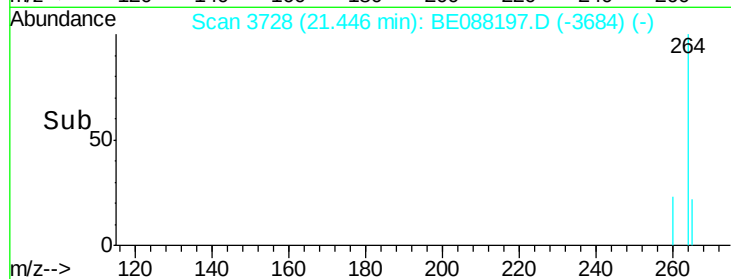
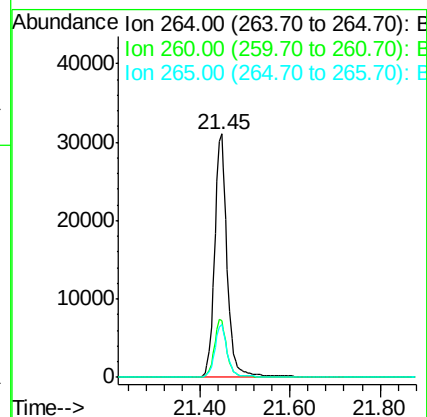
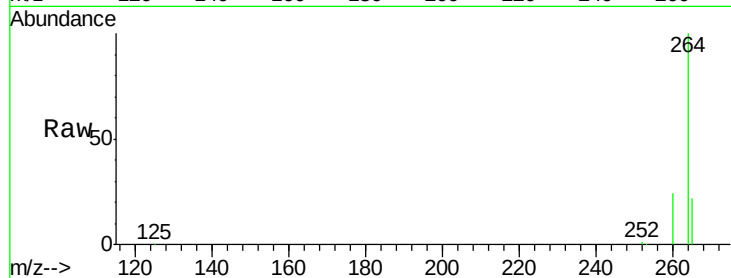




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.45 min Scan# 3728
 Delta R.T. 0.00 min
 Lab File: BE088197.D
 Acq: 22 Oct 2014 23:51

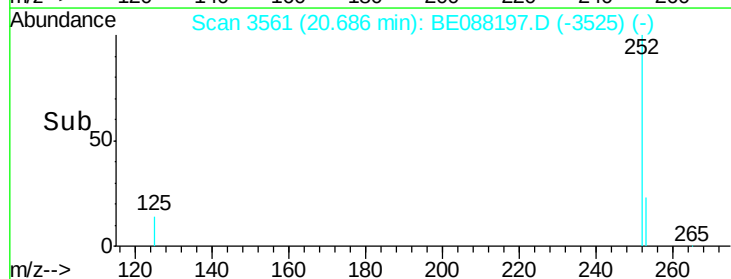
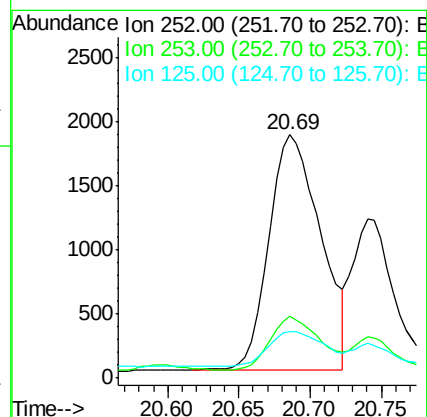
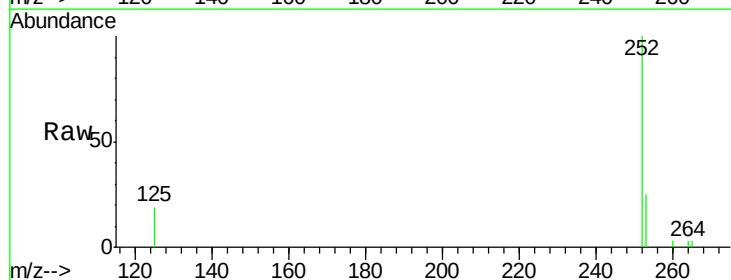
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW15-1014

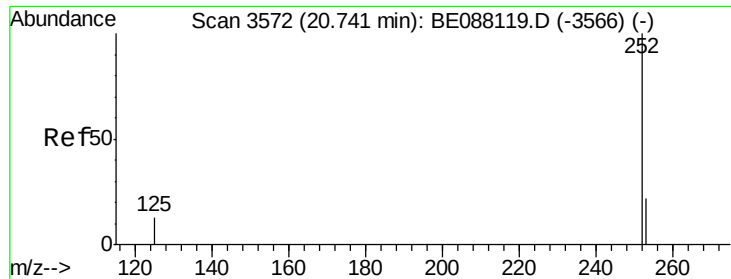
Tgt Ion:264 Resp: 59217
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.4
 265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 0.33 ng
 RT: 20.69 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: BE088197.D
 Acq: 22 Oct 2014 23:51

Tgt Ion:252 Resp: 4608
 Ion Ratio Lower Upper
 252 100
 253 25.2 17.4 26.0
 125 18.9 11.8 17.8#





#24

Benzo(k)fluoranthene

Concen: 0.17 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

Instrument :

BNA_E

ClientSampleId :

YS19-SW15-1014

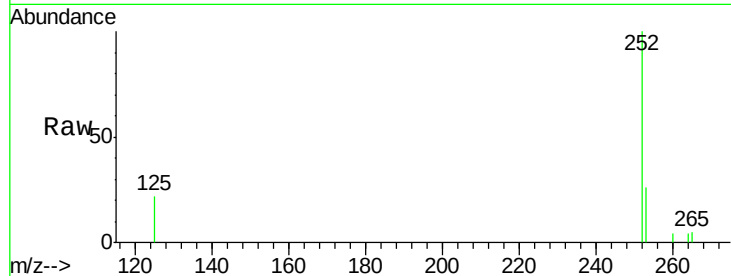
Tgt Ion: 252 Resp: 2528

Ion Ratio Lower Upper

252 100

253 26.2 17.6 26.4

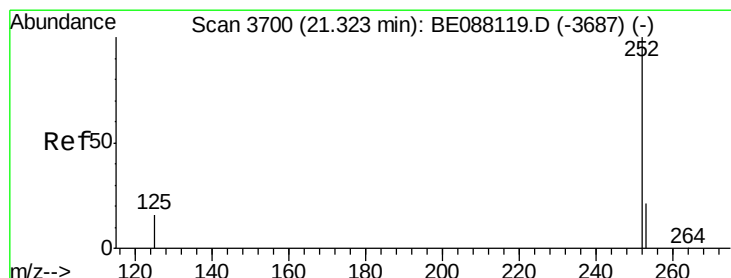
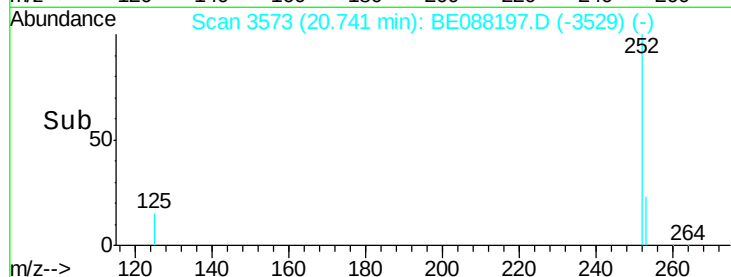
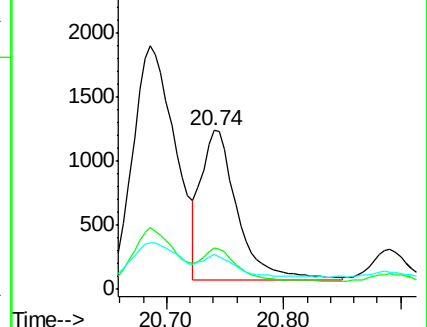
125 21.9 11.5 17.3#



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: 0.23 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088197.D

Acq: 22 Oct 2014 23:51

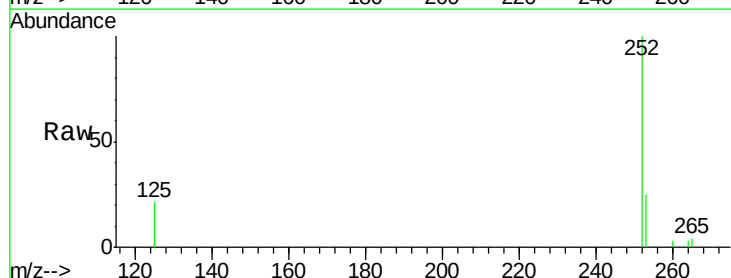
Tgt Ion: 252 Resp: 3028

Ion Ratio Lower Upper

252 100

253 25.3 17.5 26.3

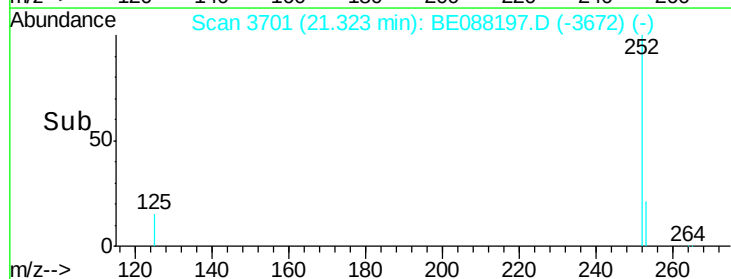
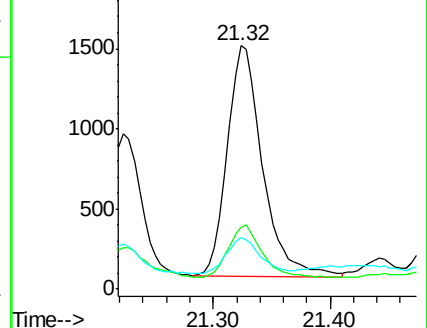
125 21.2 13.0 19.6#

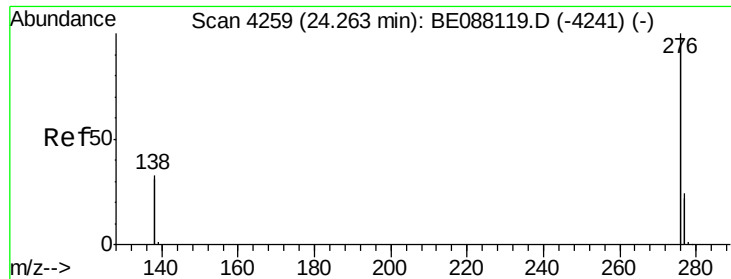


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

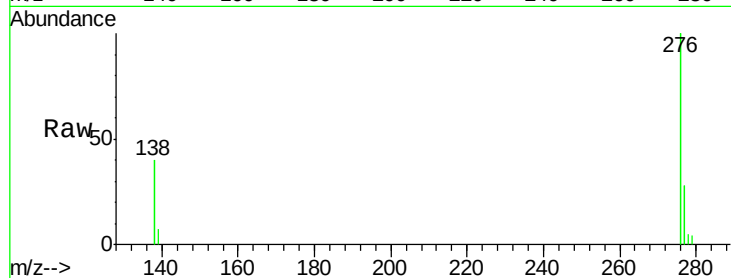




#27
 Benzo(g,h,i)perylene
 Concen: 0.17 ng
 RT: 24.27 min Scan# 4261
 Delta R.T. 0.01 min
 Lab File: BE088197.D
 Acq: 22 Oct 2014 23:51

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW15-1014

Tgt Ion: 276 Resp: 9444
 Ion Ratio Lower Upper
 276 100
 277 28.4 19.2 28.8
 138 40.3 26.6 40.0#



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

