

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088164.D
 Acq On : 22 Oct 2014 4:41
 Operator : TP/JJ
 Sample : F4303-15DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03P-1014

Quant Time: Oct 22 05:22:18 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

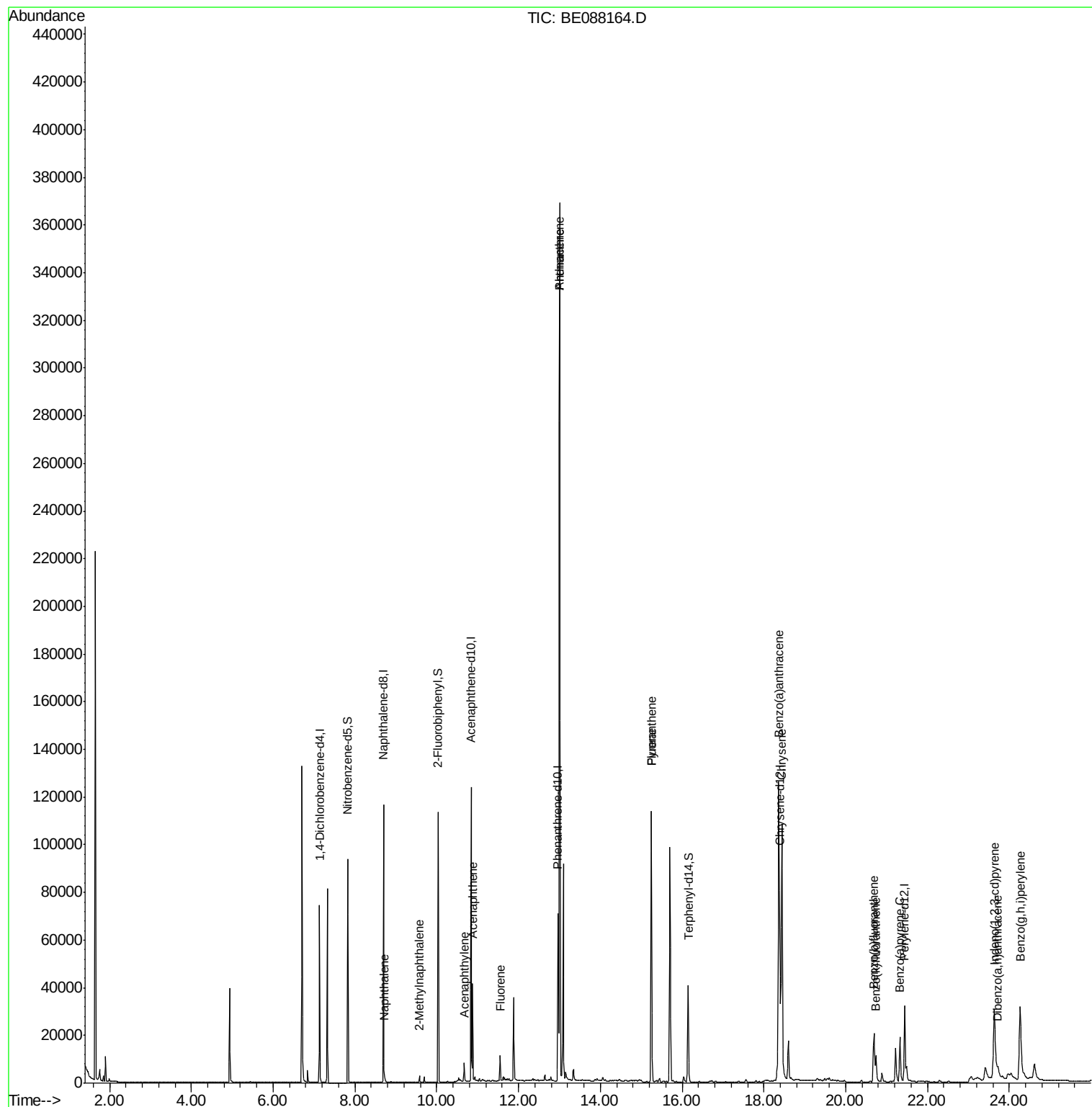
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	20697	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	84755	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	45859	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	86247	5.00	ng	0.00
16) Chrysene-d12	18.39	240	53079	5.00	ng	0.00
22) Perylene-d12	21.44	264	44697	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	38867	6.36	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	66923	5.28	ng	0.00
18) Terphenyl-d14	16.15	244	52023	6.09	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	4595	0.26	ng	98
6) 2-Methylnaphthalene	9.57	142	1266	0.12	ng	94
9) Acenaphthylene	10.67	152	7457	0.11	ng	99
10) Acenaphthene	10.88	154	5103	0.47	ng	97
11) Fluorene	11.55	166	6208	0.54	ng	99
13) Phenanthrene	13.01	178	346153	5.47	ng	95
14) Anthracene	13.01	178	346153	5.14	ng	99
15) Fluoranthene	15.25	202	108169	6.59	ng	99
17) Pyrene	15.25	202	107238	7.43	ng	100
19) Benzo(a)anthracene	18.36	228	148962	3.16	ng	99
20) Chrysene	18.44	228	148737	3.21	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	73702	1.43	ng	# 85
23) Benzo(b)fluoranthene	20.69	252	37318	3.51	ng	98
24) Benzo(k)fluoranthene	20.74	252	16973	1.49	ng	98
25) Benzo(a)pyrene	21.32	252	26974	2.75	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	3001	0.31	ng	# 90
27) Benzo(g,h,i)perylene	24.26	276	71465	1.68	ng	99

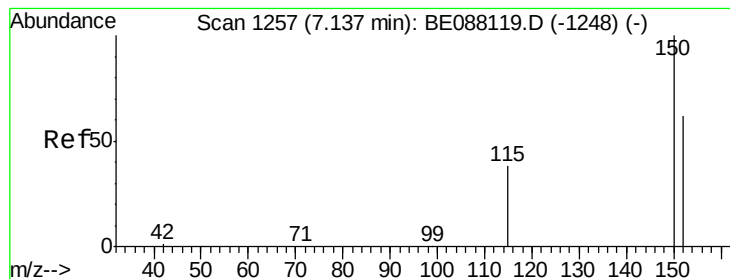
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 21 02:11:14 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

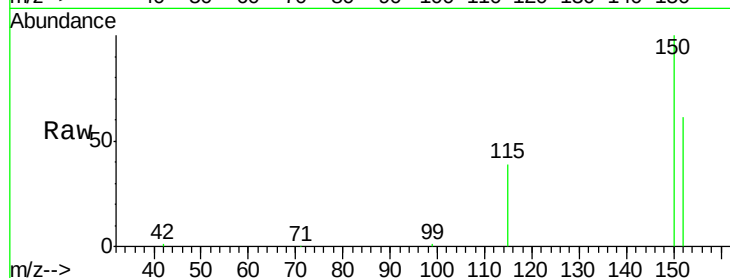
Tgt Ion:152 Resp: 20697

Ion Ratio Lower Upper

152 100

150 165.0 129.2 193.8

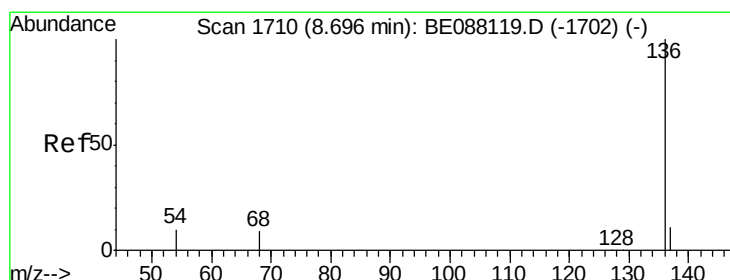
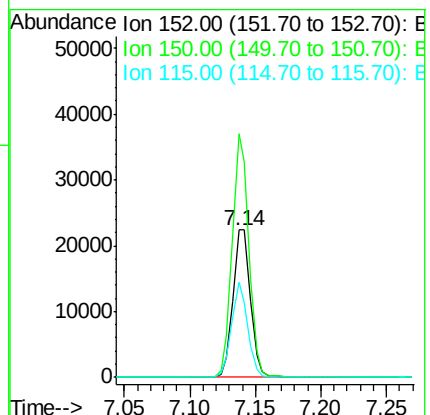
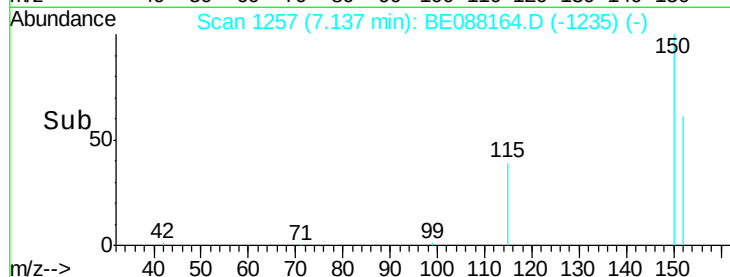
115 64.2 49.3 73.9



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: BE088164.D

Acq: 22 Oct 2014 4:41

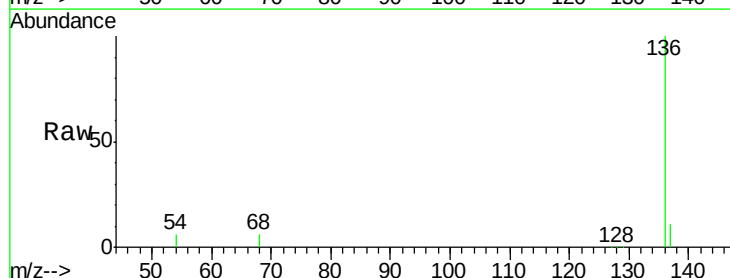
Tgt Ion:136 Resp: 84755

Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

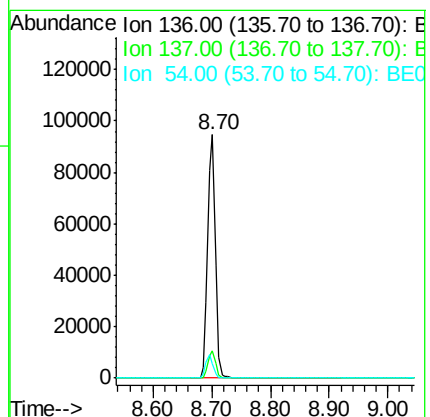
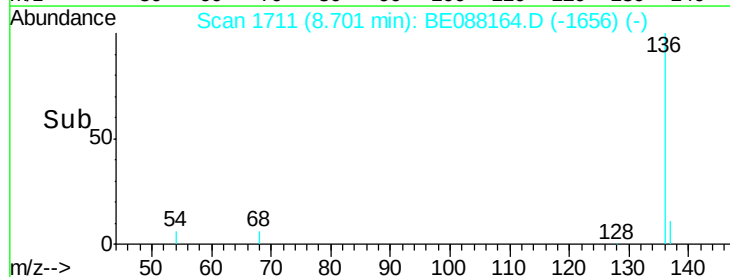
54 6.1 7.7 11.5#

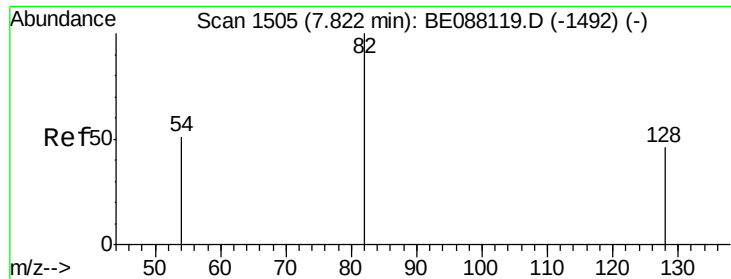


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 6.36 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

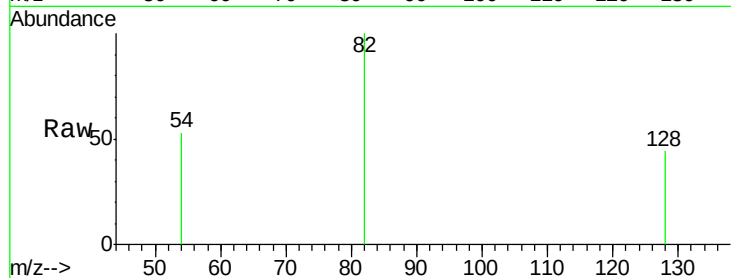
Tgt Ion: 82 Resp: 38867

Ion Ratio Lower Upper

82 100

128 44.5 37.1 55.7

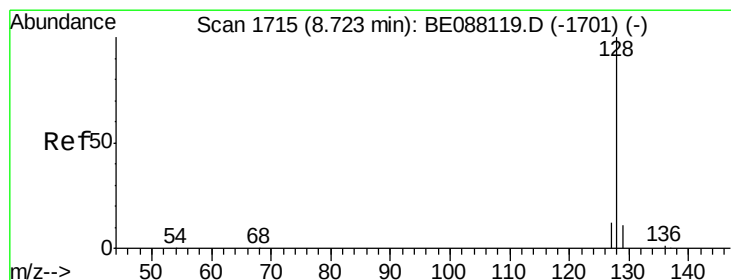
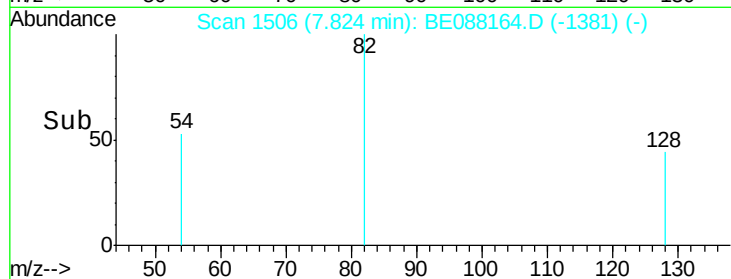
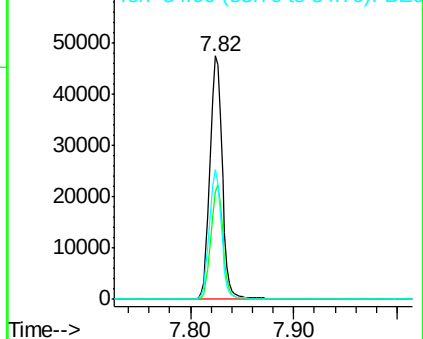
54 53.0 41.1 61.7



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



#5

Naphthalene

Concen: 0.26 ng

RT: 8.72 min Scan# 1715

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

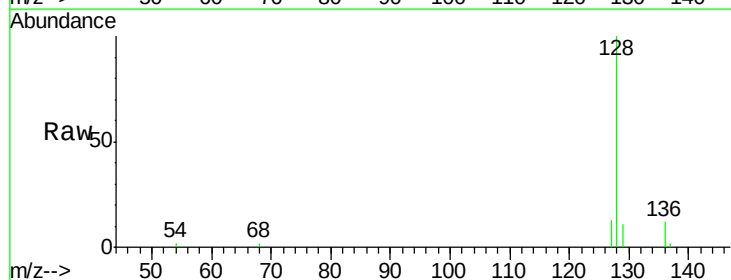
Tgt Ion: 128 Resp: 4595

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

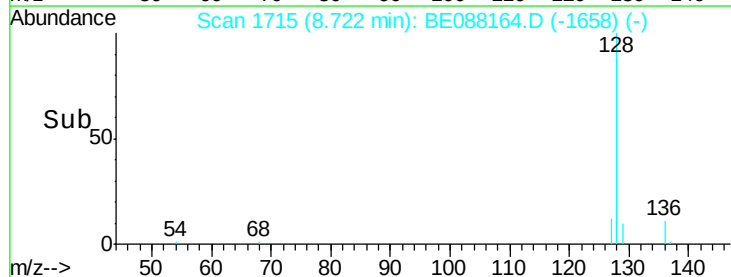
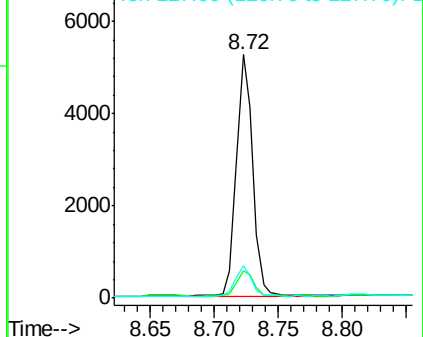
127 13.1 9.7 14.5

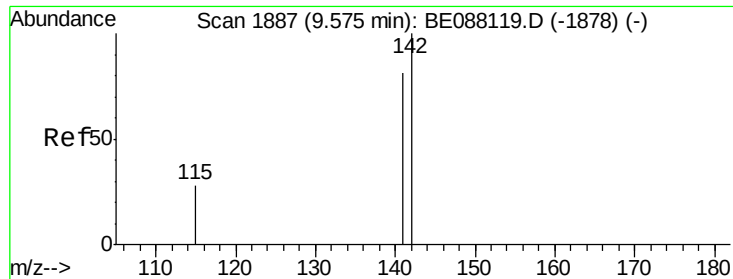


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

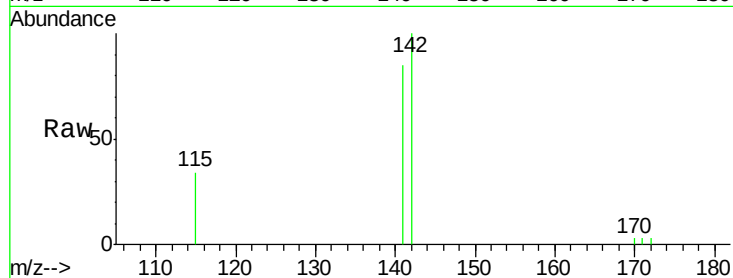




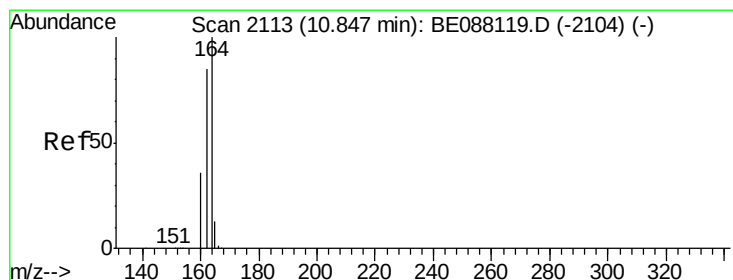
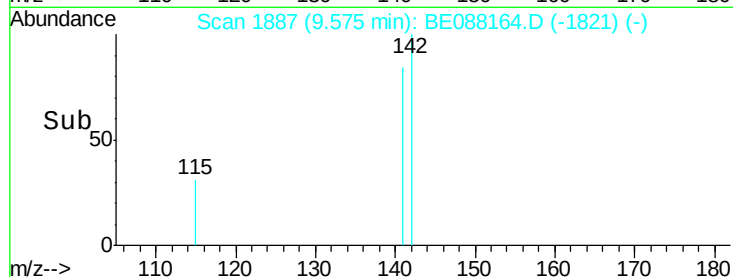
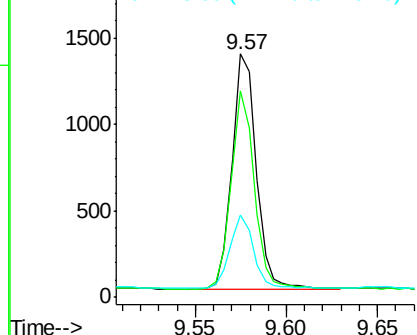
#6
2-Methylnaphthalene
Concen: 0.12 ng
RT: 9.57 min Scan# 1887
Delta R.T. -0.00 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

Instrument :
BNA_E
ClientSampleId :
YS19-SB03P-1014

Tgt Ion:142 Resp: 1266
Ion Ratio Lower Upper
142 100
141 84.9 64.6 97.0
115 33.7 22.6 34.0

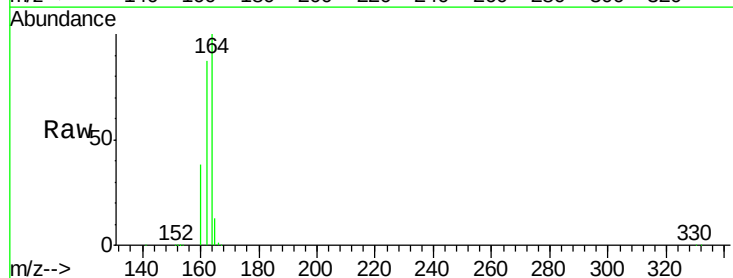


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

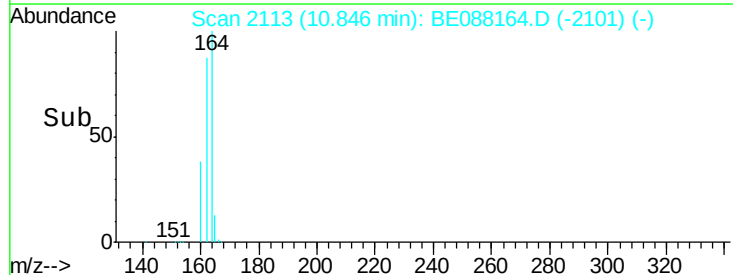
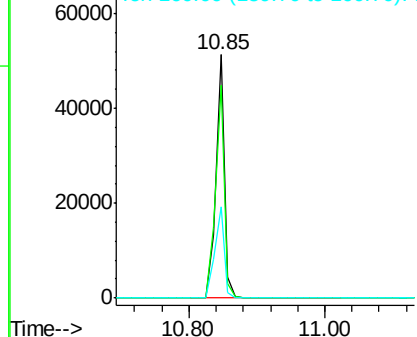


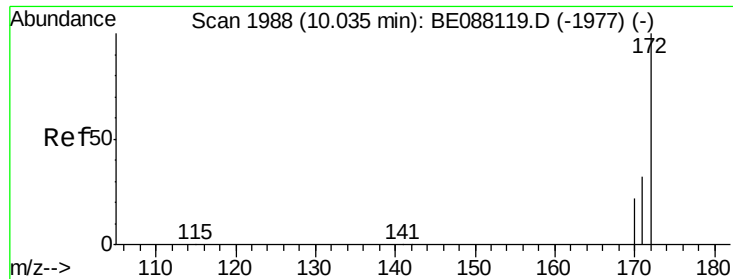
#7
Acenaphthene-d10
Concen: 5.00 ng
RT: 10.85 min Scan# 2113
Delta R.T. -0.00 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

Tgt Ion:164 Resp: 45859
Ion Ratio Lower Upper
164 100
162 87.5 68.3 102.5
160 37.8 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

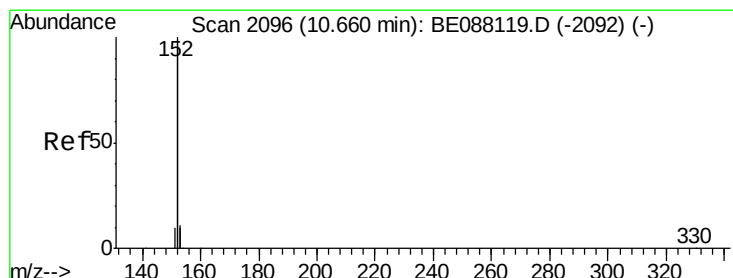
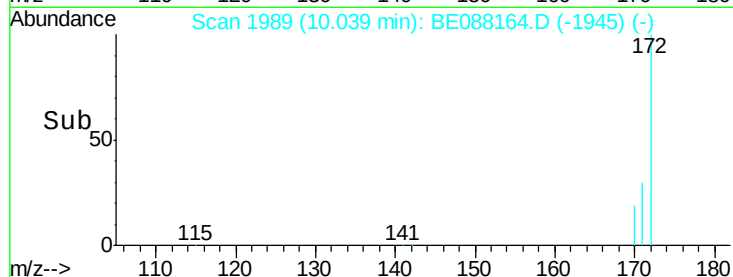
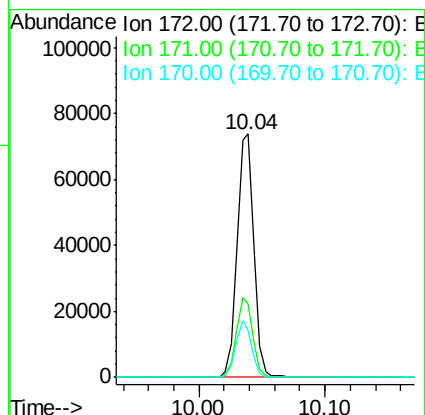
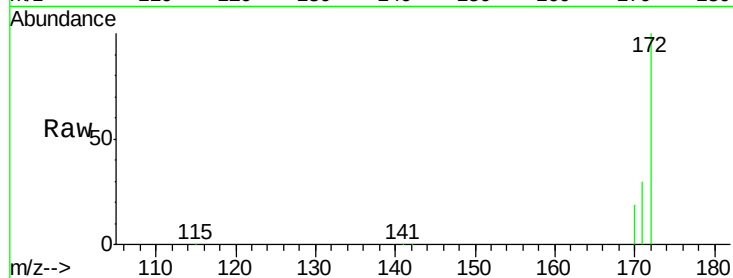




#8
2-Fluorobiphenyl
Concen: 5.28 ng
RT: 10.04 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

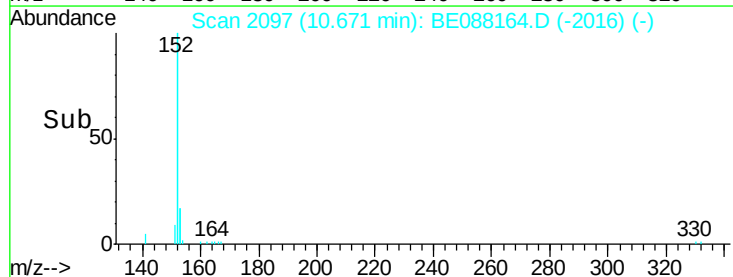
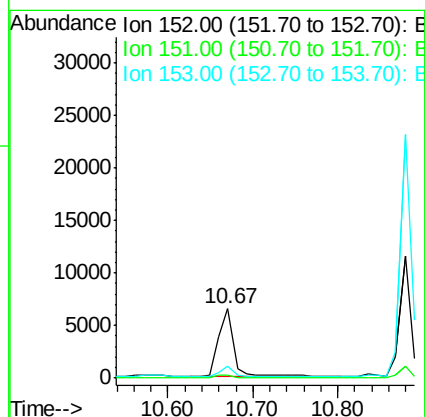
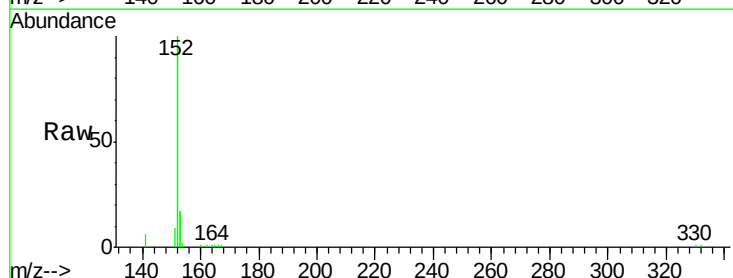
Instrument :
BNA_E
ClientSampleId :
YS19-SB03P-1014

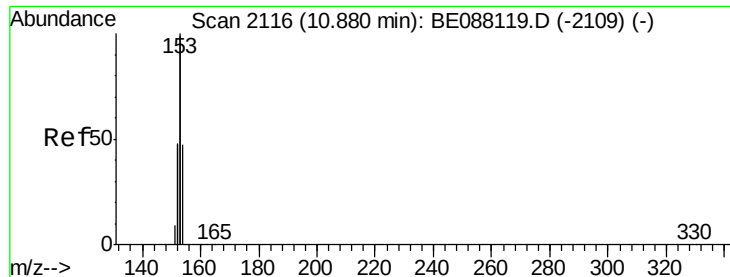
Tgt Ion:172 Resp: 66923
Ion Ratio Lower Upper
172 100
171 30.0 25.4 38.2
170 19.0 17.4 26.2



#9
Acenaphthylene
Concen: 0.11 ng
RT: 10.67 min Scan# 2097
Delta R.T. 0.01 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

Tgt Ion:152 Resp: 7457
Ion Ratio Lower Upper
152 100
151 4.6 3.7 5.5
153 13.6 10.4 15.6





#10

Acenaphthene

Concen: 0.47 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

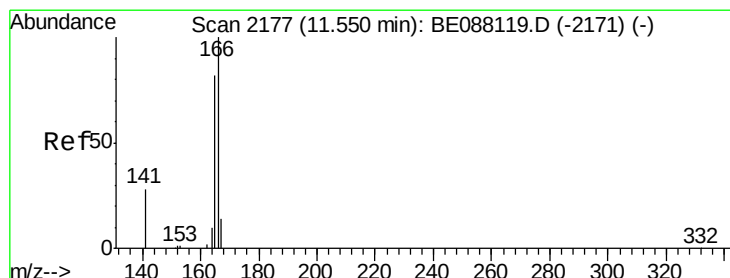
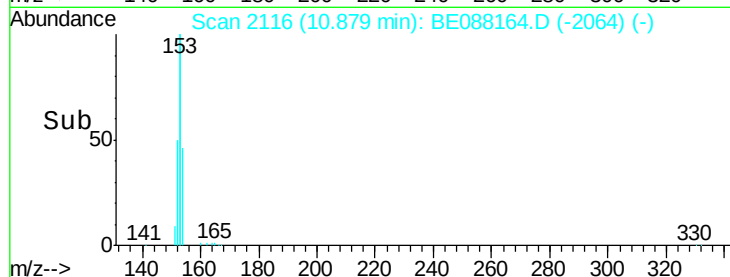
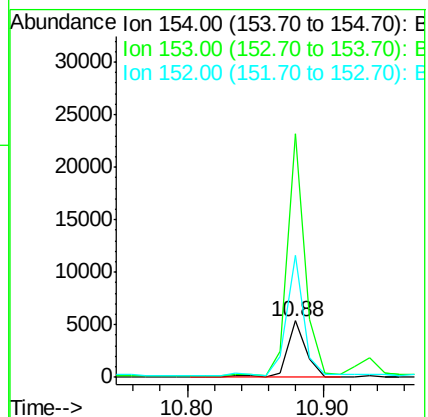
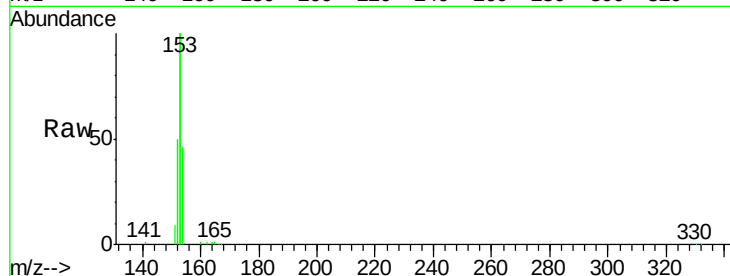
Tgt Ion:154 Resp: 5103

Ion Ratio Lower Upper

154 100

153 402.5 327.8 491.6

152 201.1 157.6 236.4



#11

Fluorene

Concen: 0.54 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

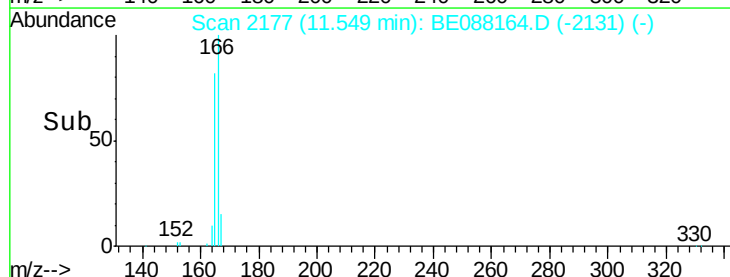
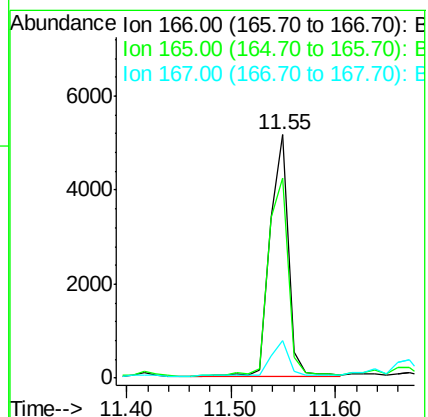
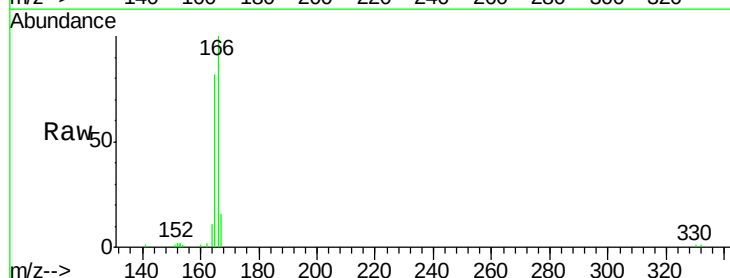
Tgt Ion:166 Resp: 6208

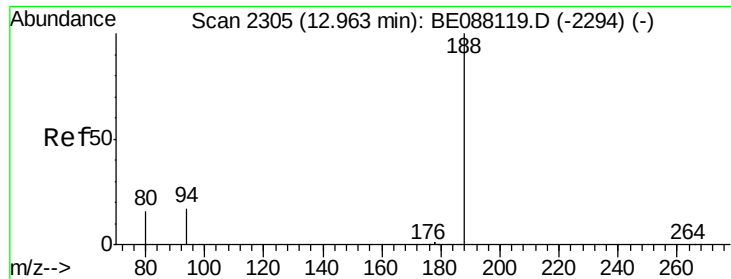
Ion Ratio Lower Upper

166 100

165 89.7 71.4 107.2

167 14.5 10.6 16.0

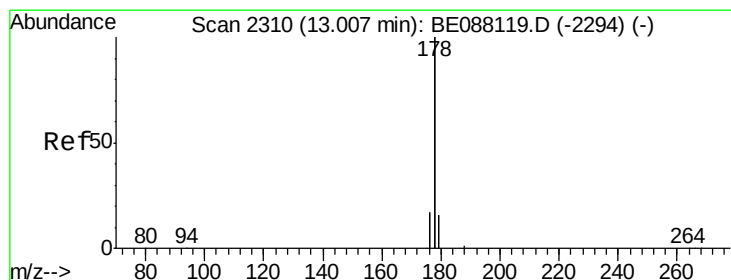
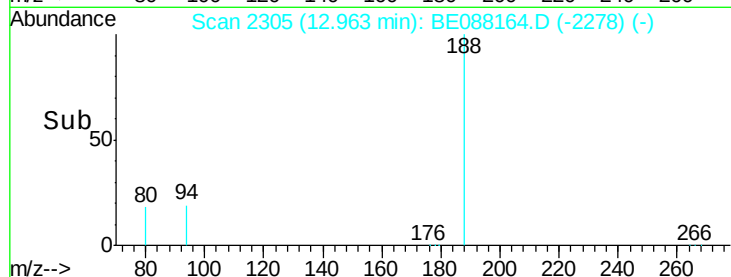
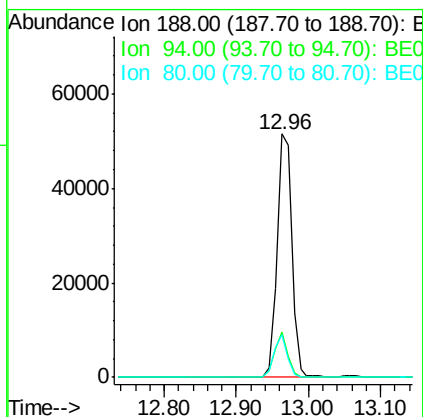
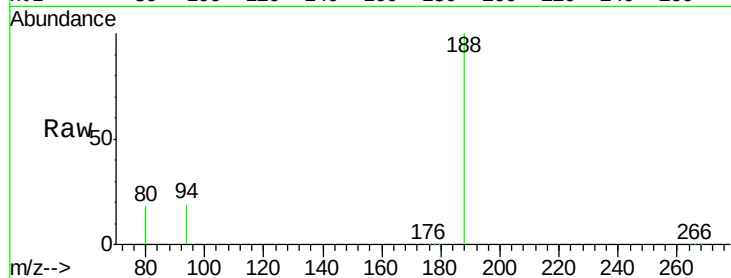




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

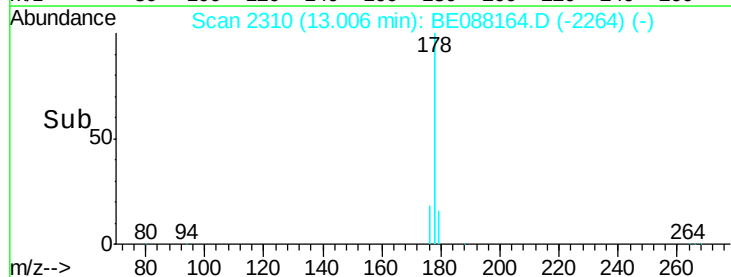
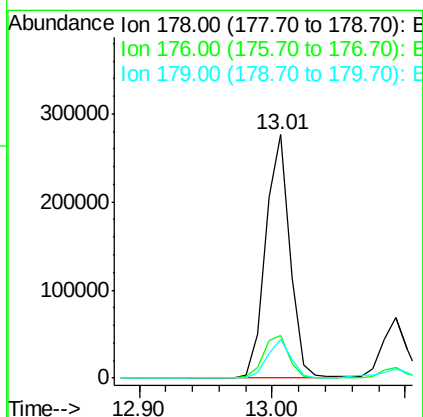
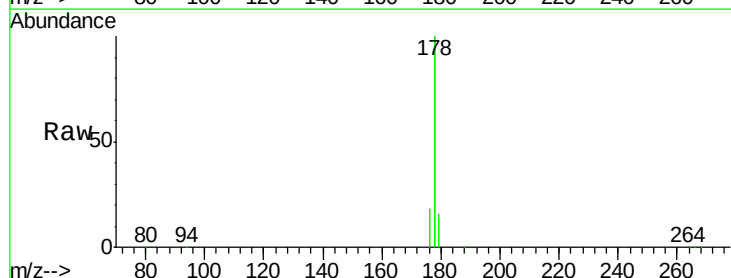
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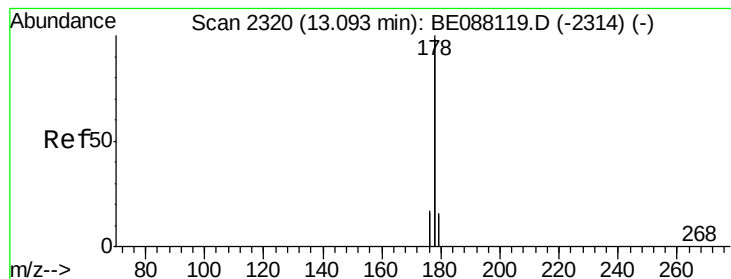
Tgt Ion:188 Resp: 86247
Ion Ratio Lower Upper
188 100
94 18.7 13.9 20.9
80 17.6 12.9 19.3



#13
Phenanthrene
Concen: 5.47 ng
RT: 13.01 min Scan# 2310
Delta R.T. 0.00 min
Lab File: BE088164.D
Acq: 22 Oct 2014 4:41

Tgt Ion:178 Resp: 346153
Ion Ratio Lower Upper
178 100
176 18.5 12.5 18.7
179 15.3 13.5 20.3





#14

Anthracene

Concen: 5.14 ng

RT: 13.01 min Scan# 2310

Delta R.T. -0.09 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

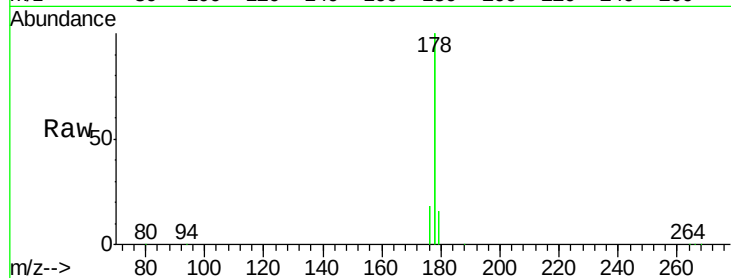
Tgt Ion:178 Resp: 346153

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

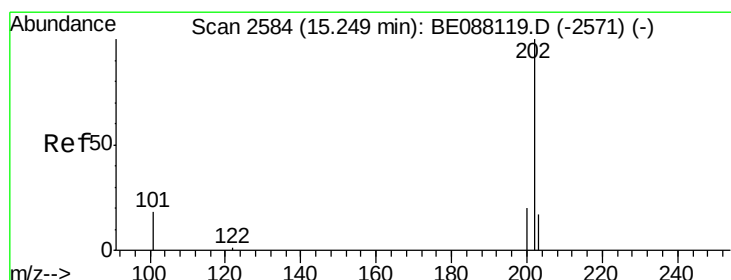
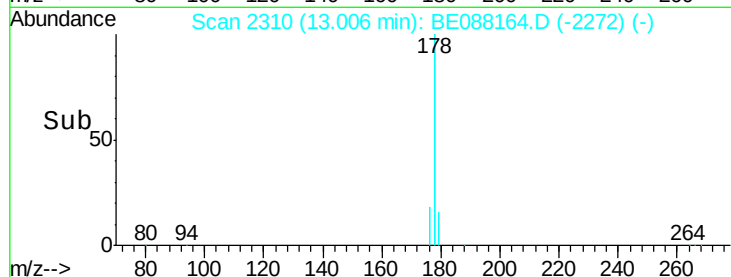
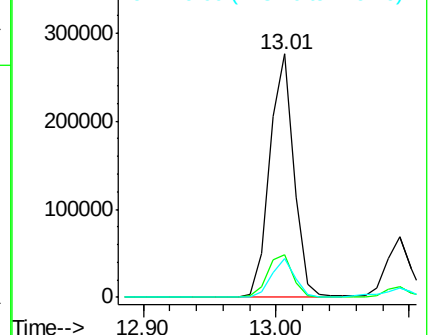
179 15.3 12.5 18.7



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: 6.59 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

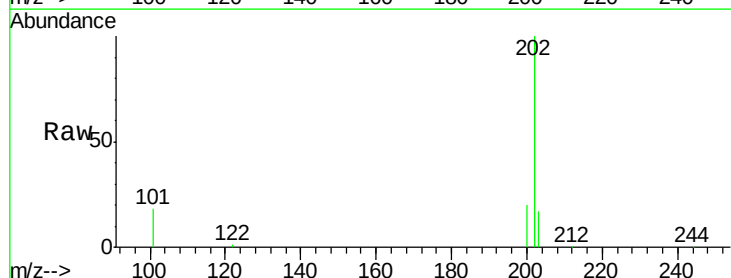
Tgt Ion:202 Resp: 108169

Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

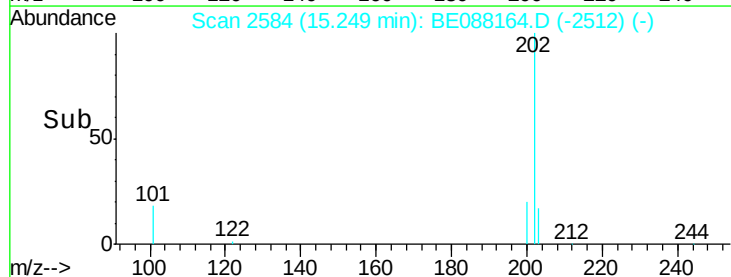
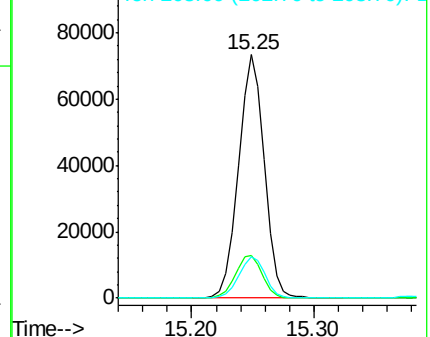
203 17.3 13.5 20.3

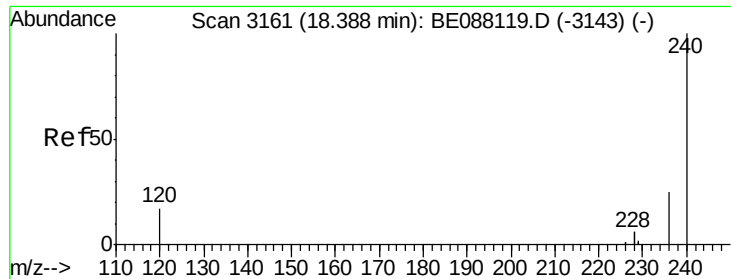


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3161

Delta R.T. 0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

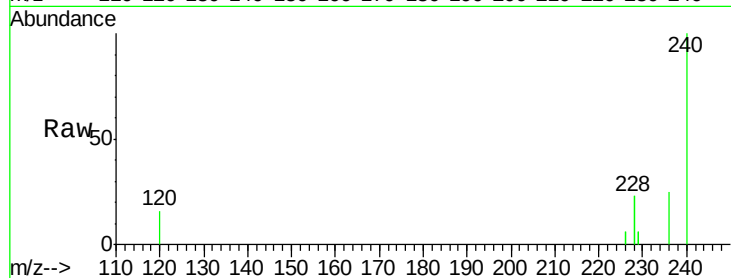
Tgt Ion:240 Resp: 53079

Ion Ratio Lower Upper

240 100

120 16.2 13.9 20.9

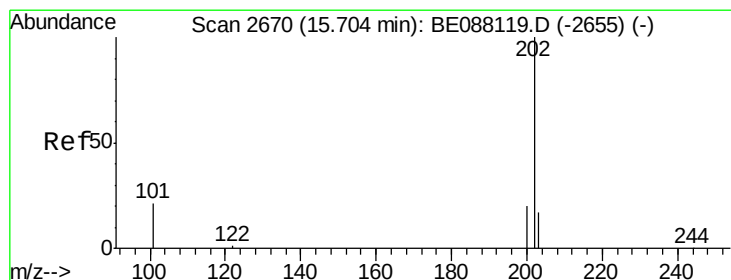
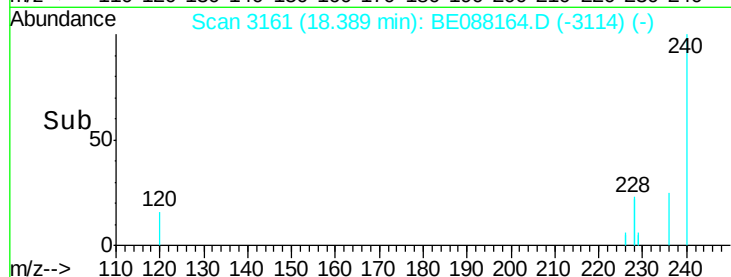
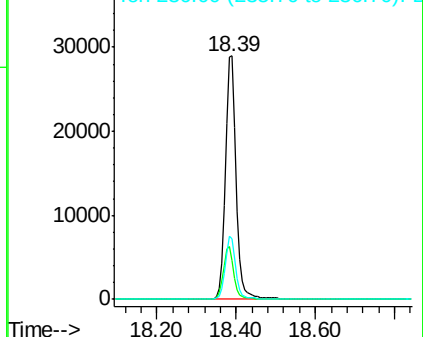
236 24.9 19.9 29.9



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



#17

Pyrene

Concen: 7.43 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.46 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

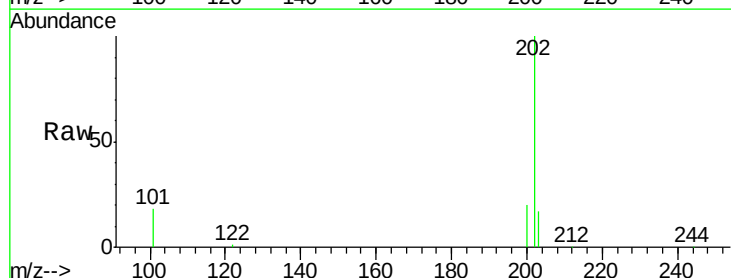
Tgt Ion:202 Resp: 107238

Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

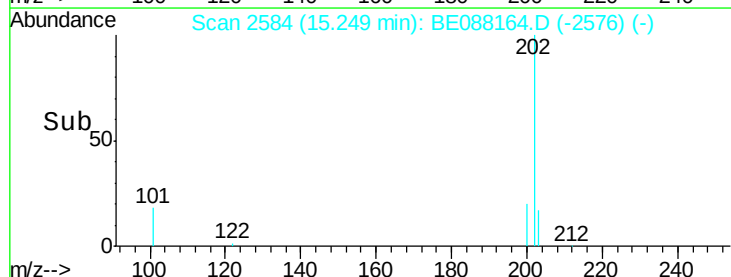
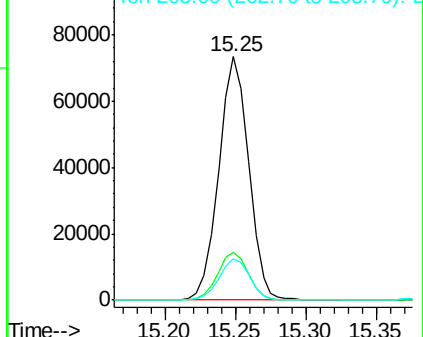
203 17.2 13.9 20.9

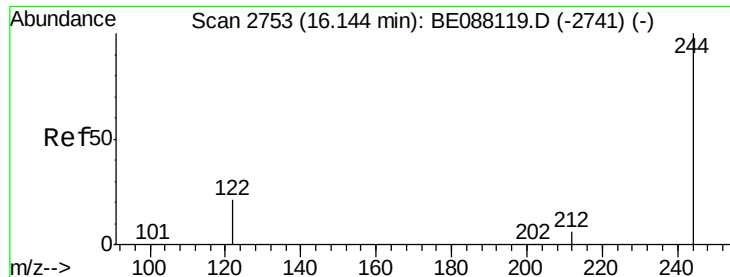


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 6.09 ng

RT: 16.15 min Scan# 2754

Delta R.T. 0.01 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

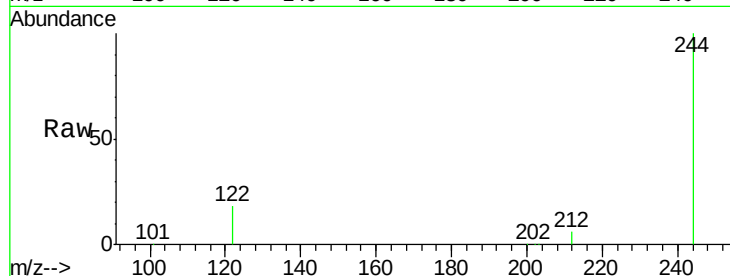
Tgt Ion:244 Resp: 52023

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

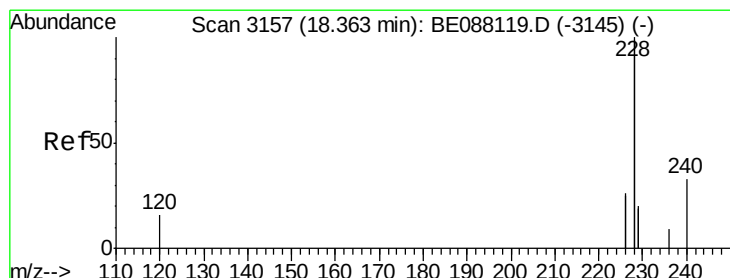
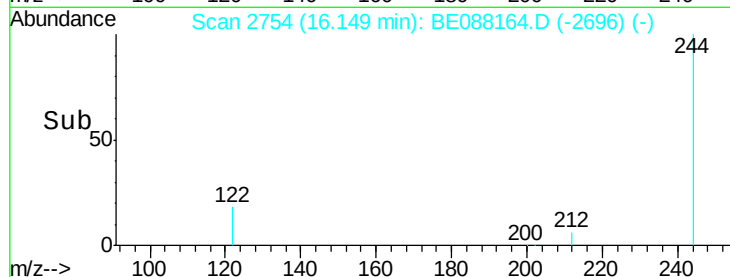
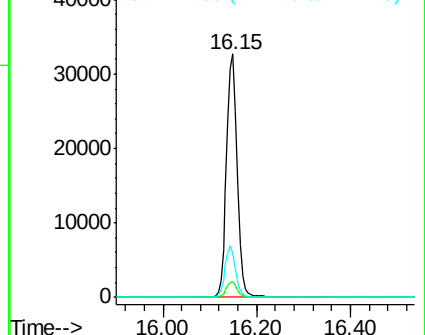
122 18.0 17.5 26.3



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: 3.16 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

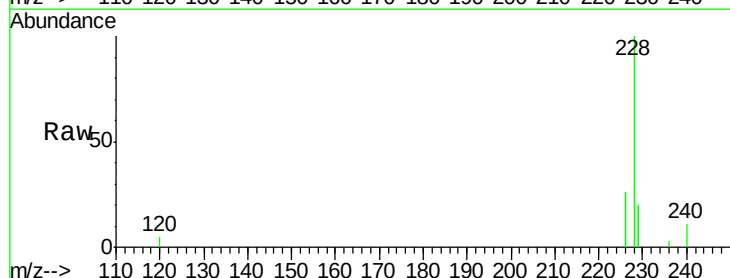
Tgt Ion:228 Resp: 148962

Ion Ratio Lower Upper

228 100

226 26.3 20.8 31.2

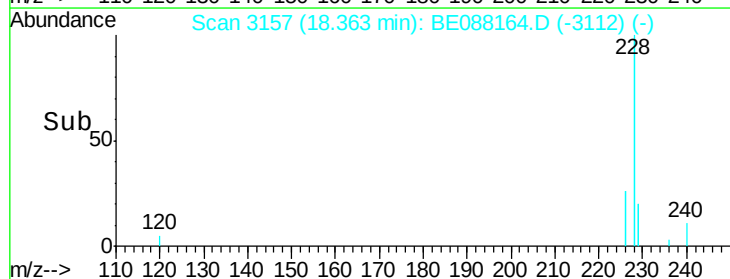
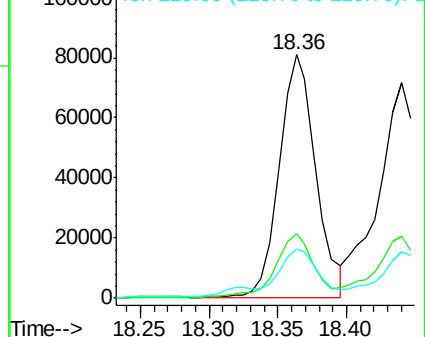
229 20.4 15.6 23.4

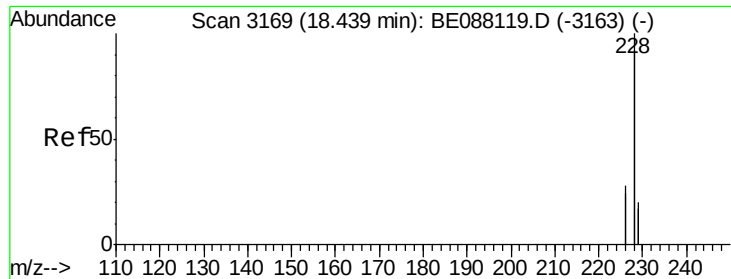


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 3.21 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

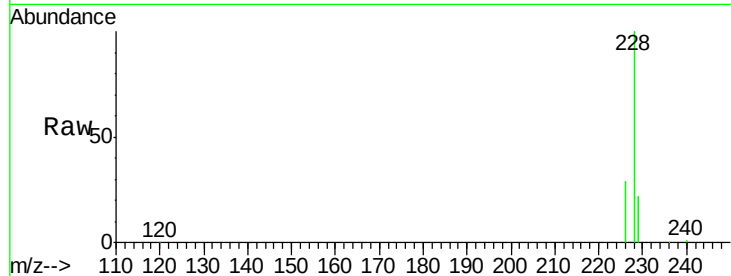
Tgt Ion:228 Resp: 148737

Ion Ratio Lower Upper

228 100

226 28.5 22.7 34.1

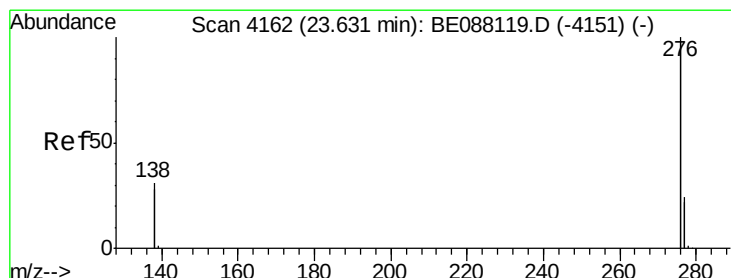
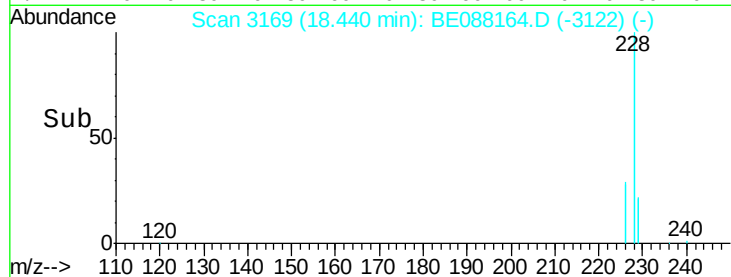
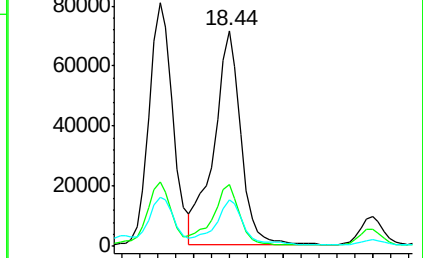
229 21.7 15.8 23.6



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



#21

Indeno(1,2,3-cd)pyrene

Concen: 1.43 ng

RT: 23.63 min Scan# 4162

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

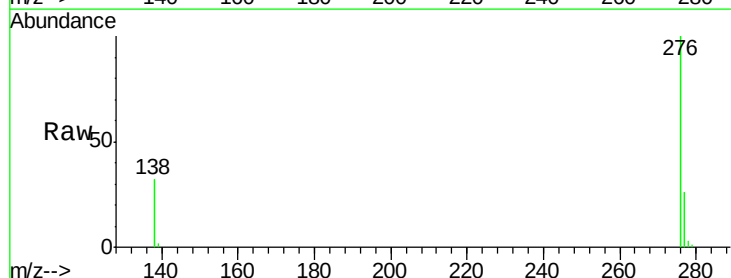
Tgt Ion:276 Resp: 73702

Ion Ratio Lower Upper

276 100

138 29.0 18.5 27.7#

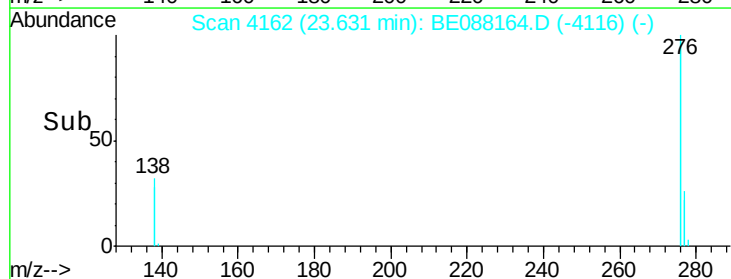
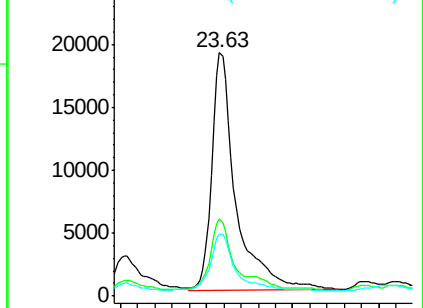
277 26.0 14.6 21.8#

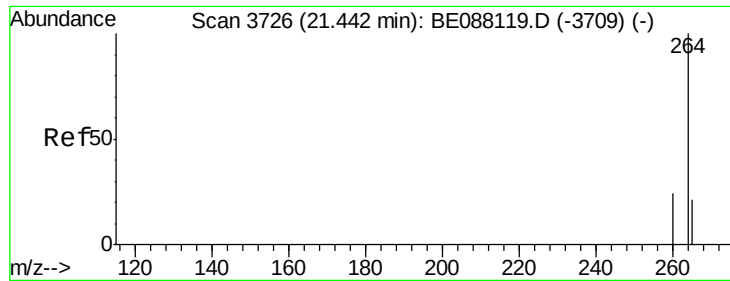


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

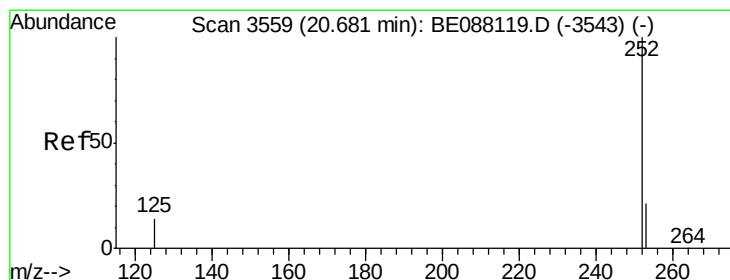
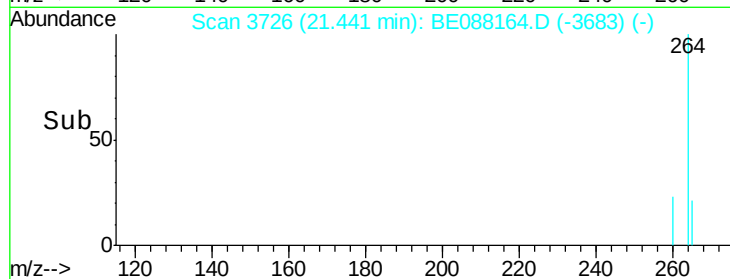
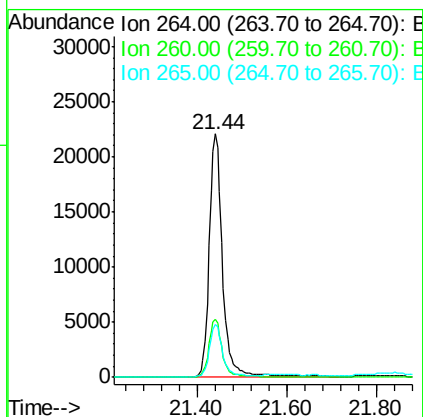
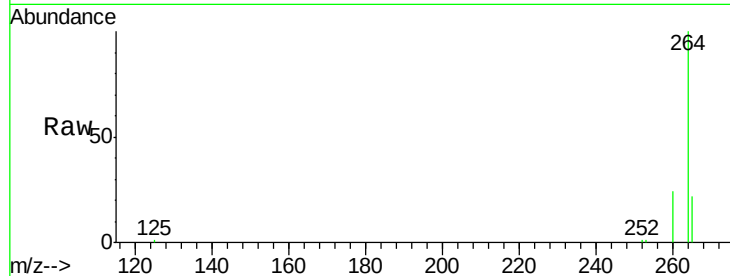




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3726
 Delta R.T. -0.00 min
 Lab File: BE088164.D
 Acq: 22 Oct 2014 4:41

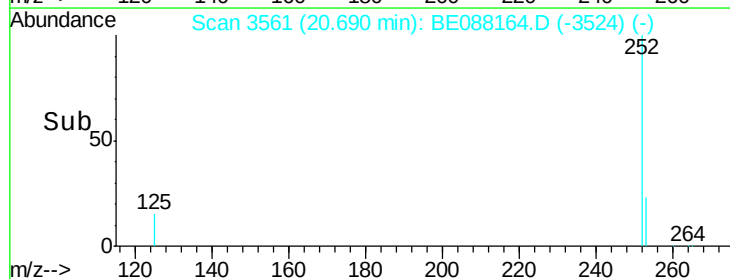
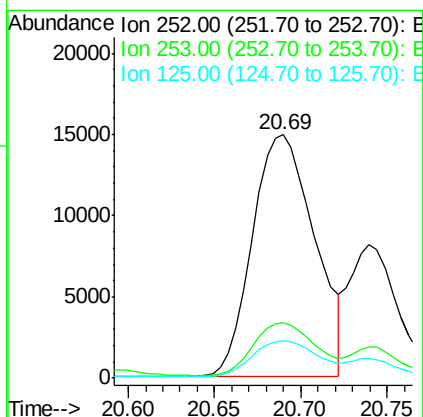
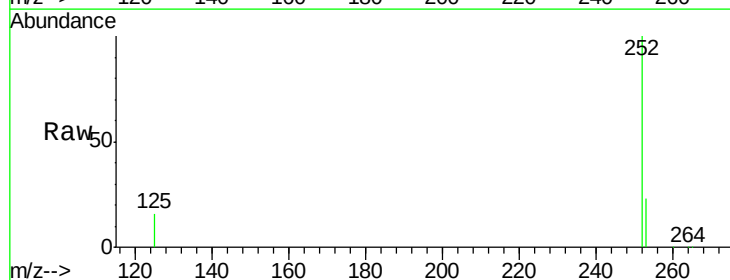
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03P-1014

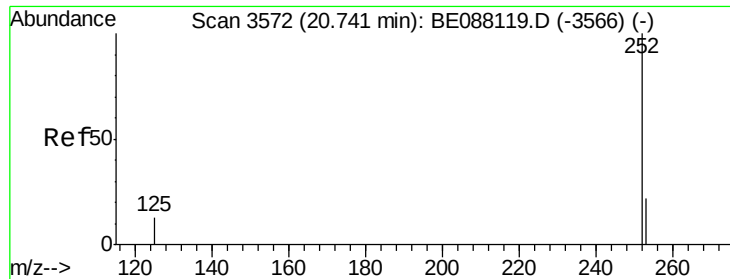
Tgt Ion: 264 Resp: 44697
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.4
 265 21.6 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 3.51 ng
 RT: 20.69 min Scan# 3561
 Delta R.T. 0.01 min
 Lab File: BE088164.D
 Acq: 22 Oct 2014 4:41

Tgt Ion: 252 Resp: 37318
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 15.7 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 1.49 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

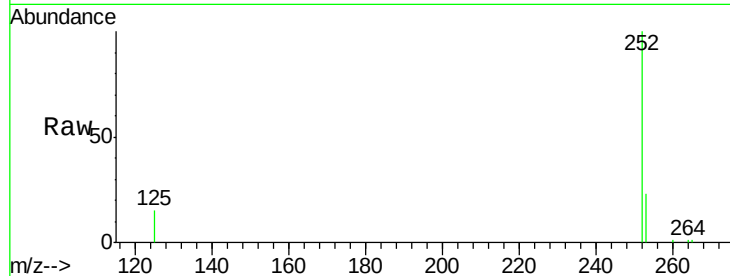
Tgt Ion:252 Resp: 16973

Ion Ratio Lower Upper

252 100

253 23.2 17.6 26.4

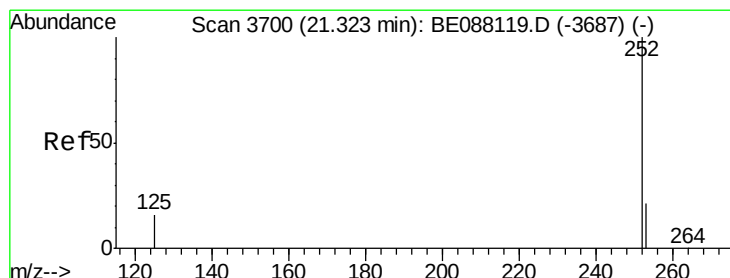
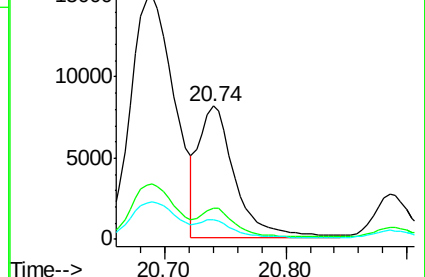
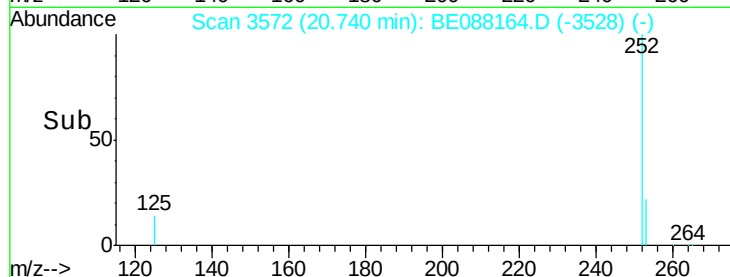
125 15.1 11.5 17.3



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: 2.75 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

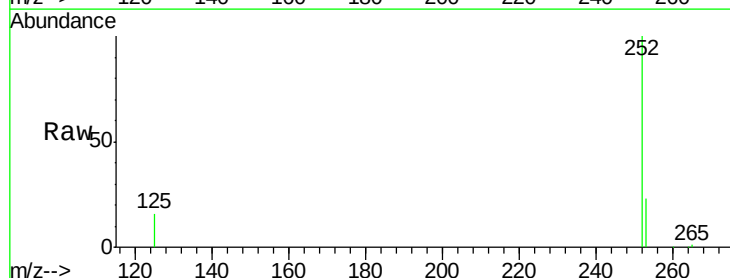
Tgt Ion:252 Resp: 26974

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

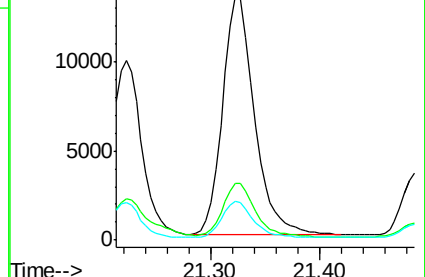
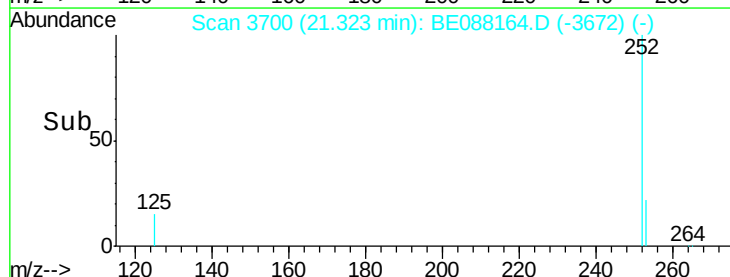
125 16.1 13.0 19.6

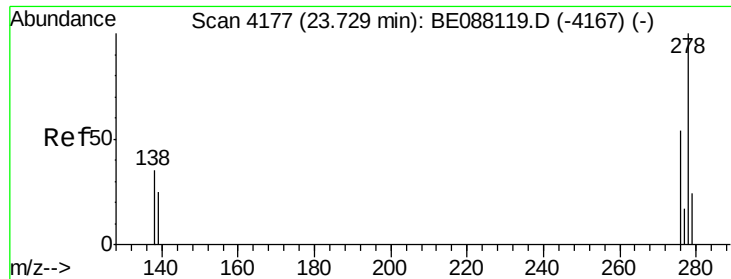


Abundance Ion 252.00 (251.70 to 252.70): E

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: 23.72 min Scan# 4176

Delta R.T. -0.01 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

Instrument :

BNA_E

ClientSampleId :

YS19-SB03P-1014

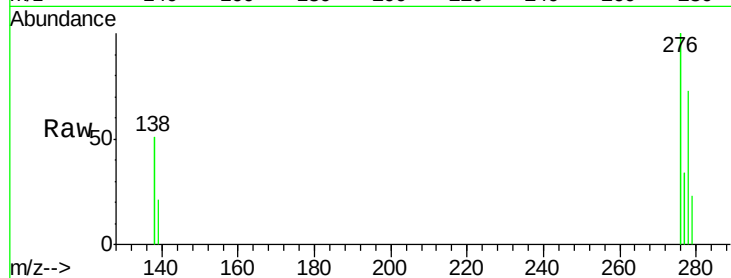
Tgt Ion: 278 Resp: 3001

Ion Ratio Lower Upper

278 100

139 29.6 20.9 31.3

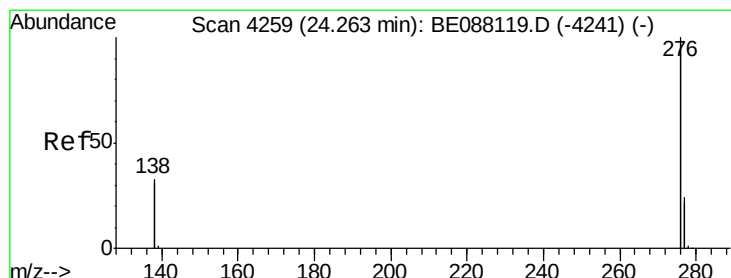
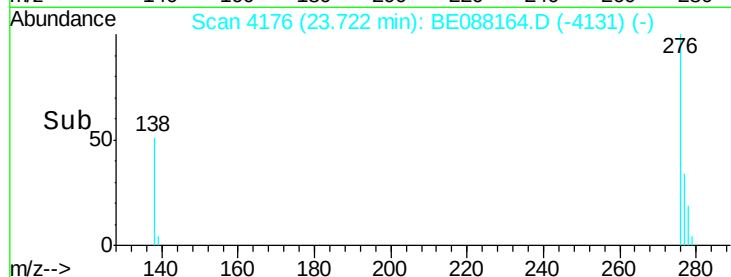
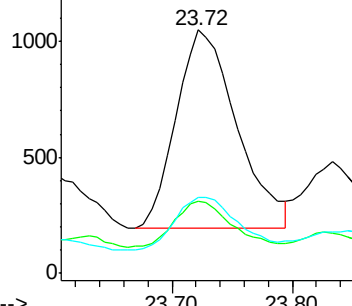
279 31.2 19.8 29.8#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#27

Benzo(g,h,i)perylene

Concen: 1.68 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088164.D

Acq: 22 Oct 2014 4:41

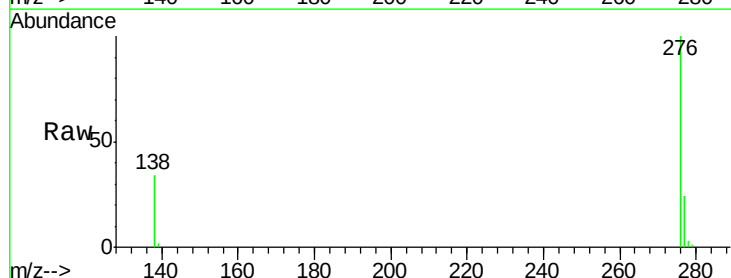
Tgt Ion: 276 Resp: 71465

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 33.5 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

