

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088459.D
 Acq On : 1 Nov 2014 19:49
 Operator : TP/JJ
 Sample : F4368-09MS
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014MS

Quant Time: Nov 02 04:19:34 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.08	152	29199	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	113181	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	52551	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	107436	5.00	ng	0.00
16) Chrysene-d12	18.33	240	60921	5.00	ng	0.02
22) Perylene-d12	21.40	264	59216	5.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.77	82	50010	6.03	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	83184	5.62	ng	0.00
18) Terphenyl-d14	16.07	244	62756	5.61	ng	0.00

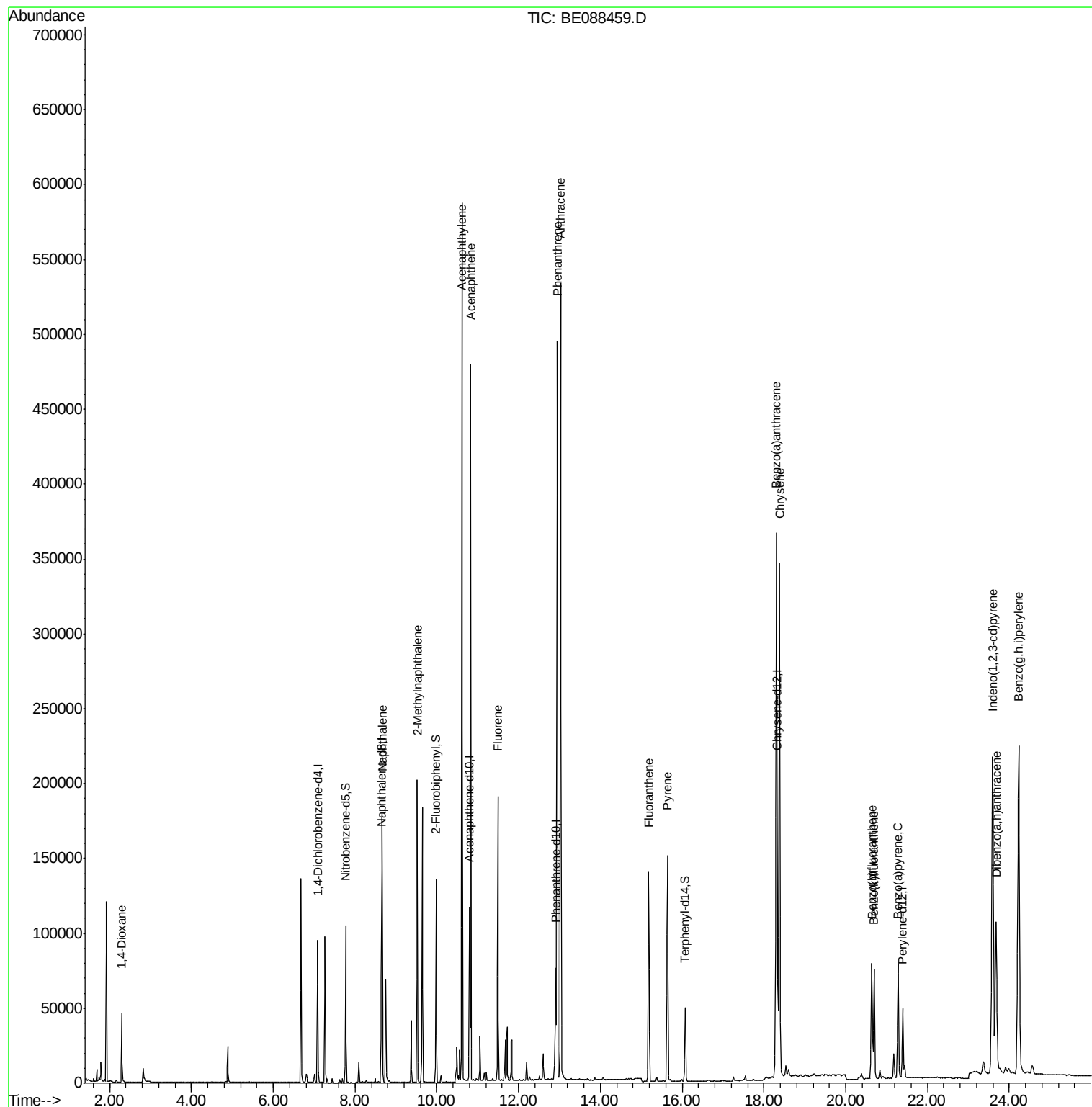
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.30	88	23886	6.25	ng	99
5) Naphthalene	8.67	128	142250	6.07	ng	100
6) 2-Methylnaphthalene	9.52	142	91715	6.32	ng	99
9) Acenaphthylene	10.62	152	530533	6.23	ng	99
10) Acenaphthene	10.83	154	76219	6.04	ng	100
11) Fluorene	11.49	166	83818	6.26	ng	99
13) Phenanthrene	12.95	178	634701	6.50	ng	99
14) Anthracene	13.03	178	530425	6.73	ng	99
15) Fluoranthene	15.18	202	141035	8.90	ng	99
17) Pyrene	15.64	202	151374	7.62	ng	99
19) Benzo(a)anthracene	18.31	228	468906	8.18	ng	99
20) Chrysene	18.38	228	435838	7.74	ng	99
21) Indeno(1,2,3-cd)pyrene	23.59	276	398038	7.59	ng	# 89
23) Benzo(b)fluoranthene	20.64	252	125743	9.68	ng	99
24) Benzo(k)fluoranthene	20.69	252	100933	7.06	ng	99
25) Benzo(a)pyrene	21.28	252	107272	8.60	ng	99
26) Dibenzo(a,h)anthracene	23.68	278	82739	7.15	ng	99
27) Benzo(g,h,i)perylene	24.23	276	425317	8.01	ng	97

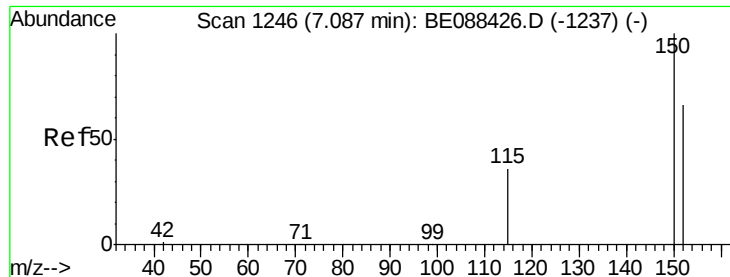
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

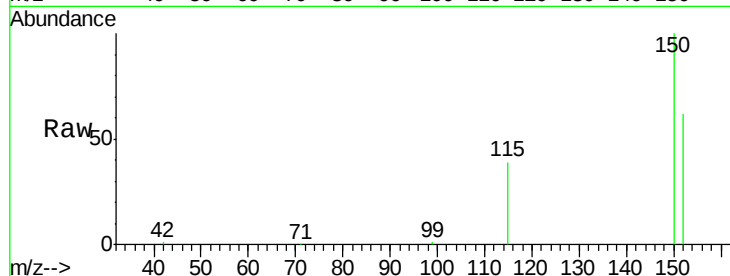
Tgt Ion:152 Resp: 29199

Ion Ratio Lower Upper

152 100

150 162.5 121.8 182.8

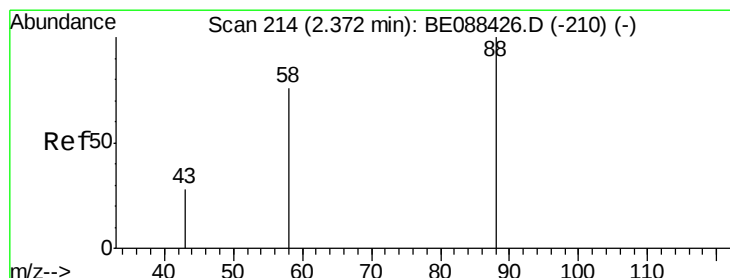
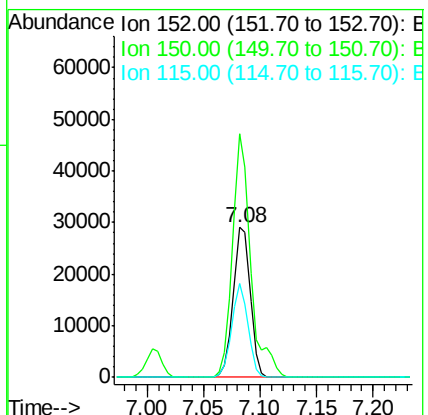
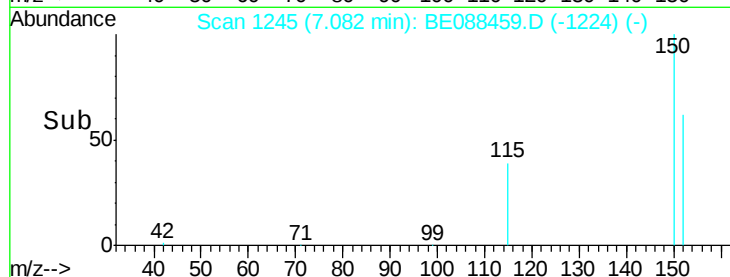
115 62.8 43.9 65.9



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



#2

1,4-Dioxane

Concen: 6.25 ng

RT: 2.30 min Scan# 198

Delta R.T. -0.07 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

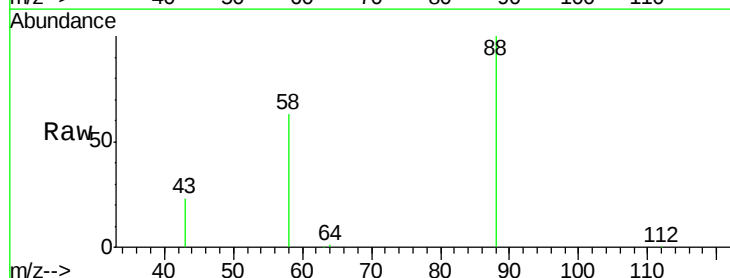
Tgt Ion: 88 Resp: 23886

Ion Ratio Lower Upper

88 100

58 74.5 59.1 88.7

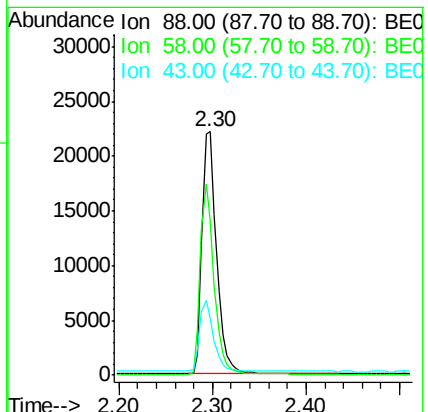
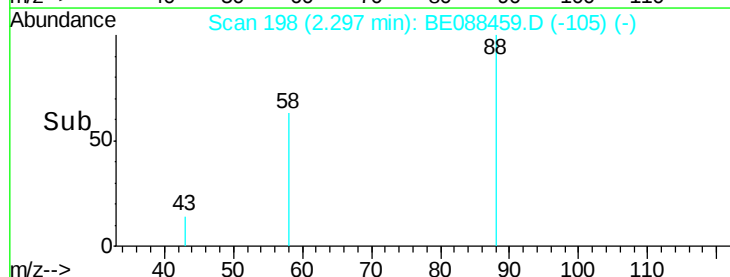
43 27.9 21.9 32.9

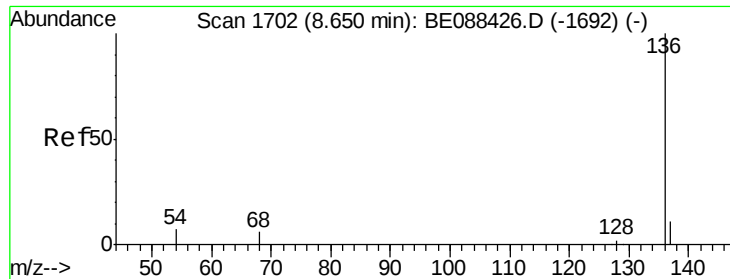


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

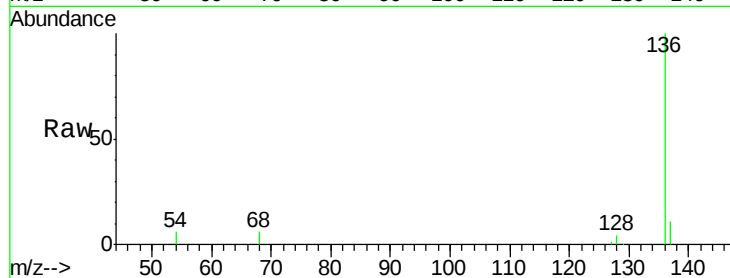
Tgt Ion: 136 Resp: 113181

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

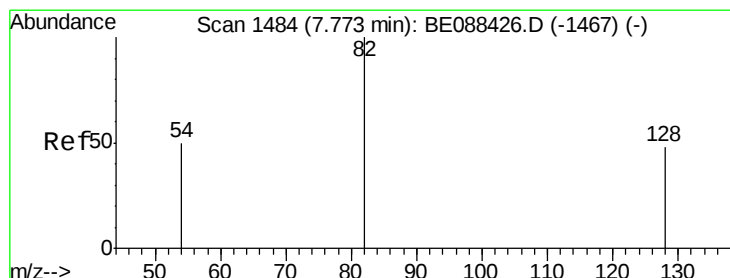
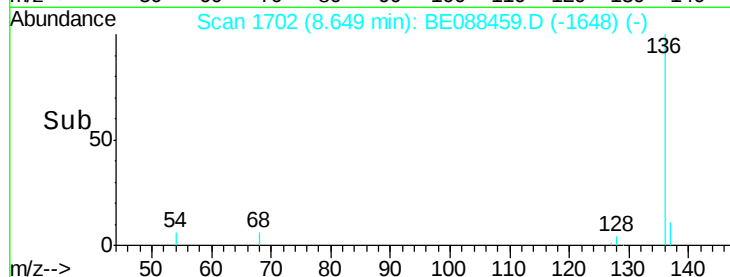
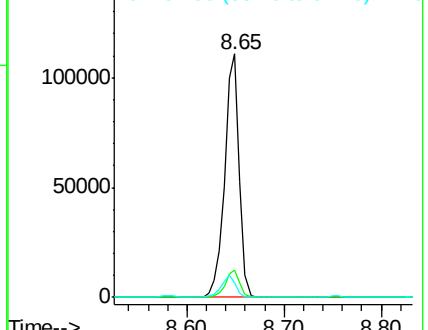
54 5.7 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): BE088426.D (-1692) (-)

Ion 137.00 (136.70 to 137.70): BE088426.D (-1692) (-)

Ion 54.00 (53.70 to 54.70): BE088426.D (-1692) (-)



#4

Nitrobenzene-d5

Concen: 6.03 ng

RT: 7.77 min Scan# 1484

Delta R.T. 0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

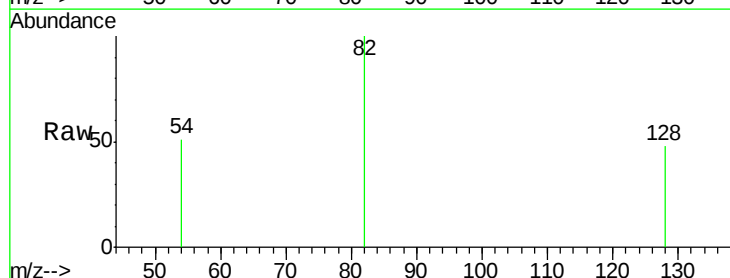
Tgt Ion: 82 Resp: 50010

Ion Ratio Lower Upper

82 100

128 48.4 38.4 57.6

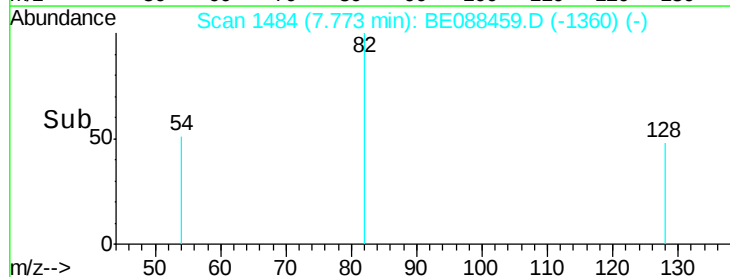
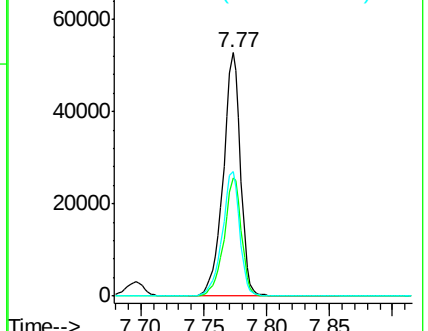
54 51.2 40.2 60.2

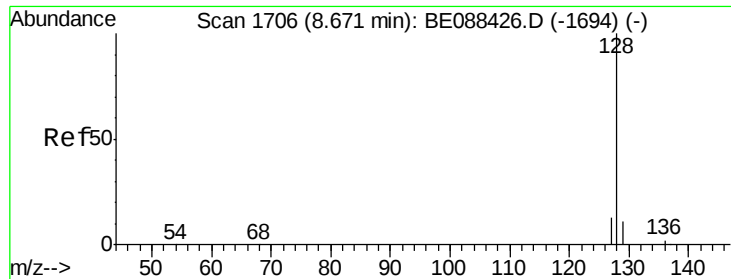


Abundance Ion 82.00 (81.70 to 82.70): BE088426.D (-1467) (-)

Ion 128.00 (127.70 to 128.70): BE088426.D (-1467) (-)

Ion 54.00 (53.70 to 54.70): BE088426.D (-1467) (-)





#5

Naphthalene

Concen: 6.07 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

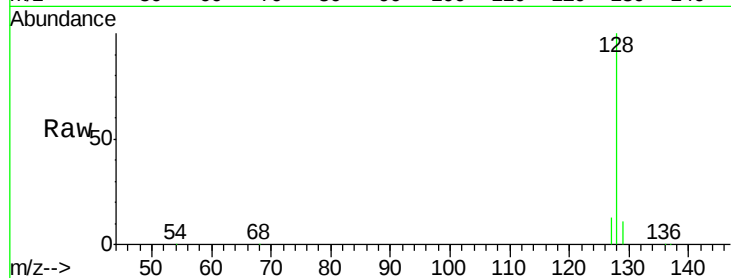
Tgt Ion:128 Resp: 142250

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

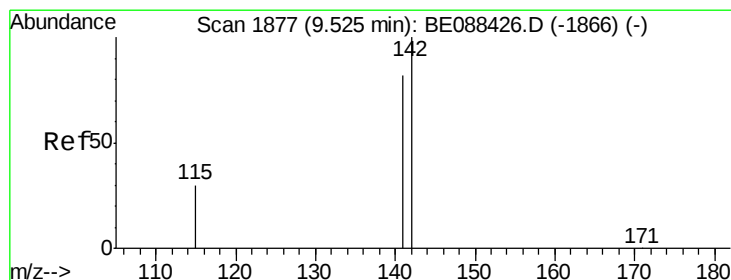
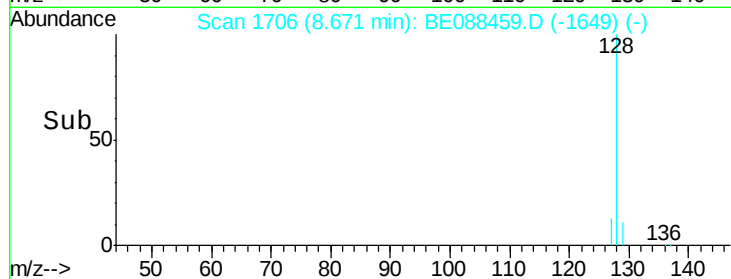
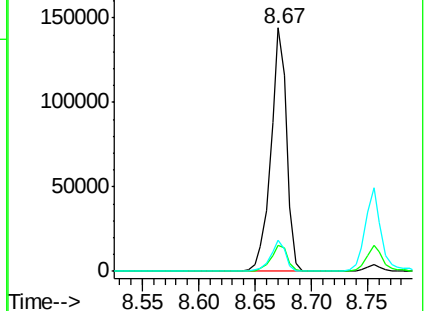
127 12.6 10.1 15.1



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: 6.32 ng

RT: 9.52 min Scan# 1877

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

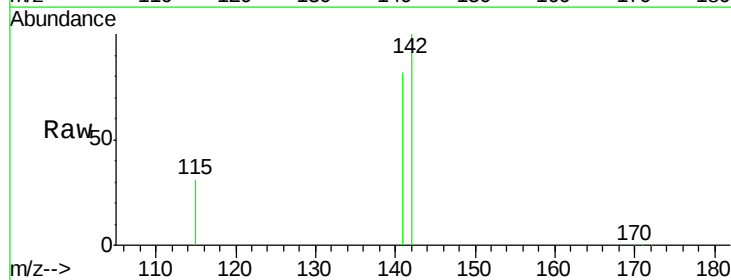
Tgt Ion:142 Resp: 91715

Ion Ratio Lower Upper

142 100

141 81.6 65.8 98.8

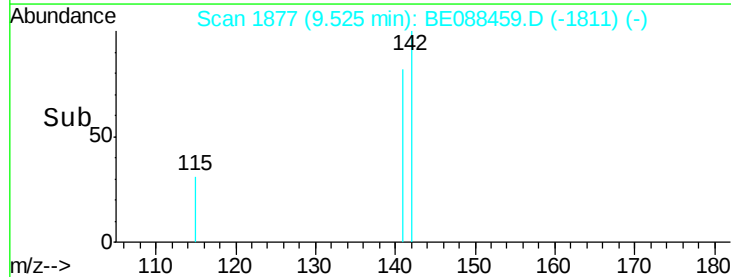
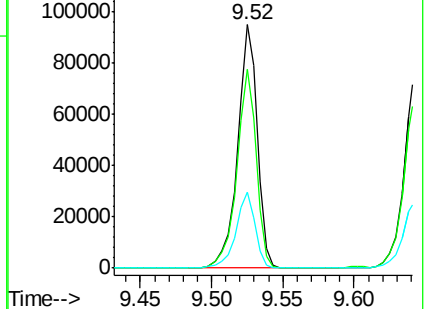
115 31.0 24.2 36.4

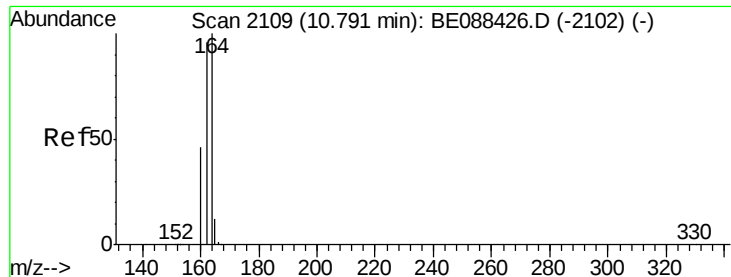


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.79 min Scan# 2109

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

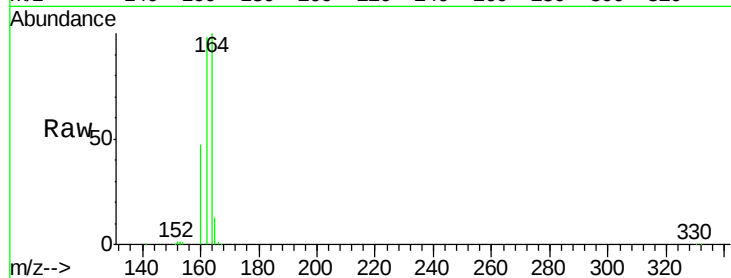
Tgt Ion:164 Resp: 52551

Ion Ratio Lower Upper

164 100

162 98.1 77.0 115.4

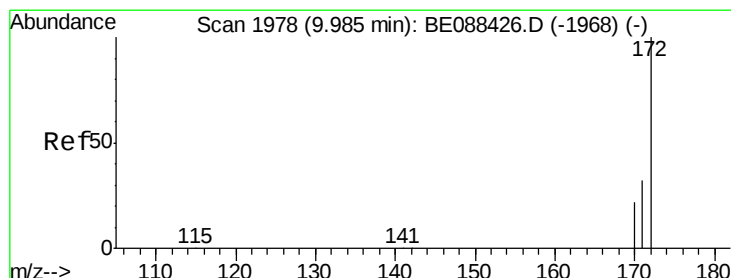
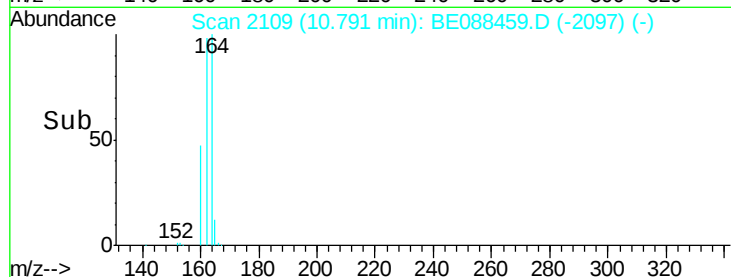
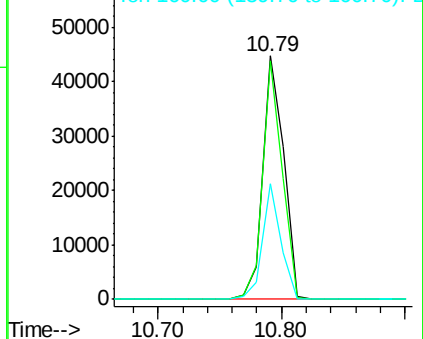
160 47.4 36.8 55.2



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: 5.62 ng

RT: 9.98 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

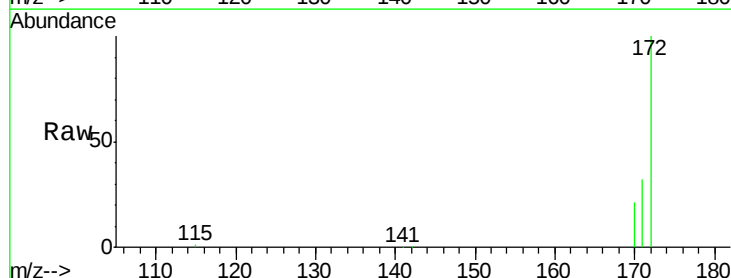
Tgt Ion:172 Resp: 83184

Ion Ratio Lower Upper

172 100

171 31.7 26.0 39.0

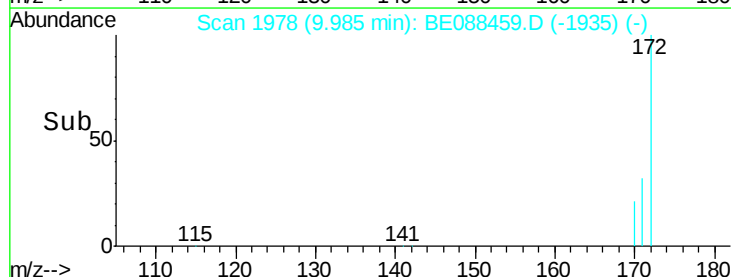
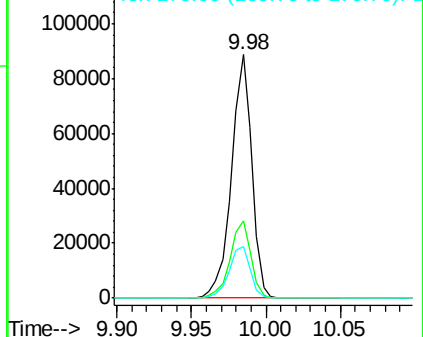
170 21.1 17.6 26.4

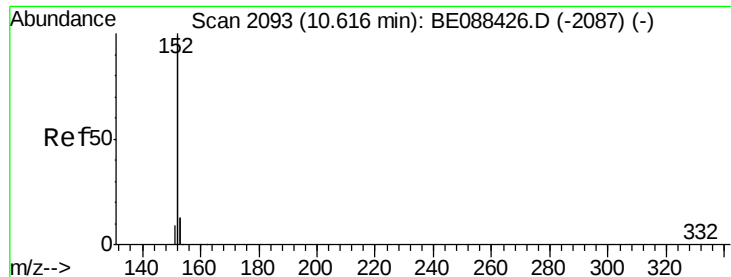


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 6.23 ng

RT: 10.62 min Scan# 2093

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

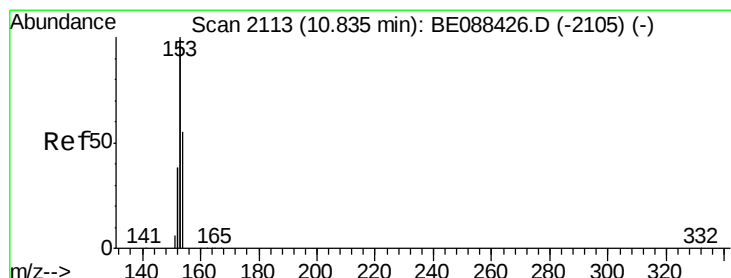
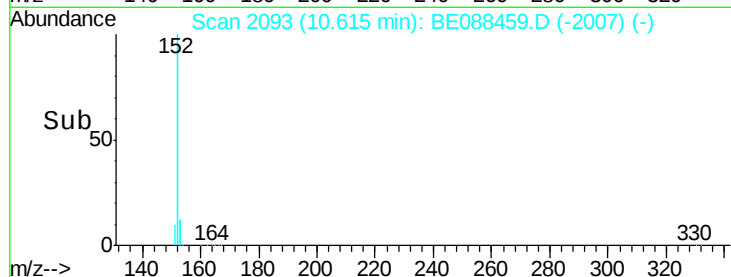
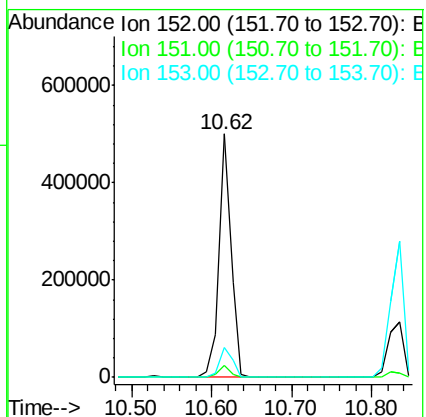
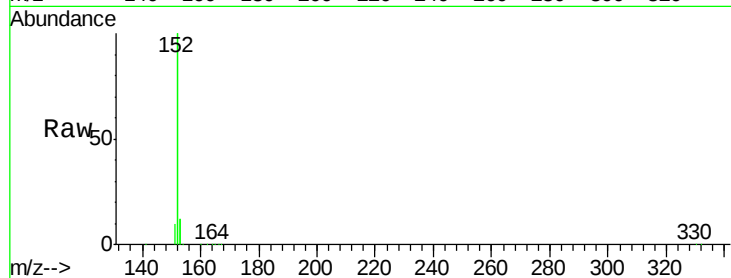
Tgt Ion:152 Resp: 530533

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

153 13.1 10.5 15.7



#10

Acenaphthene

Concen: 6.04 ng

RT: 10.83 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

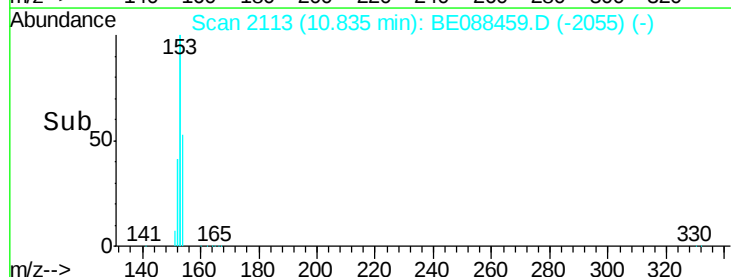
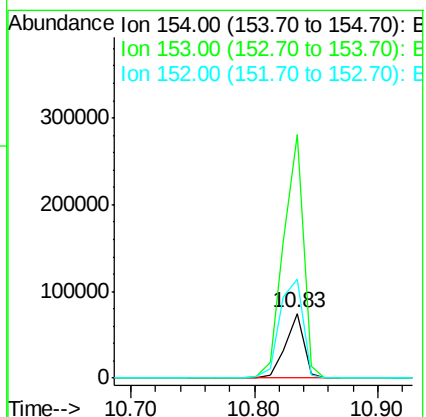
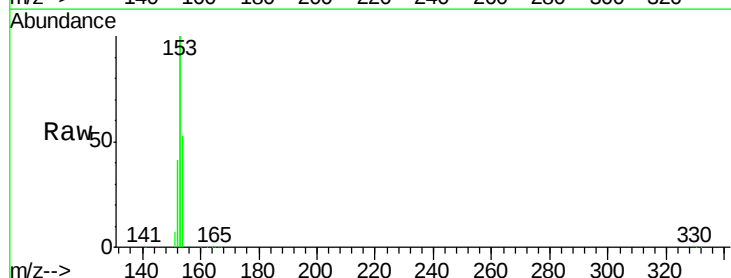
Tgt Ion:154 Resp: 76219

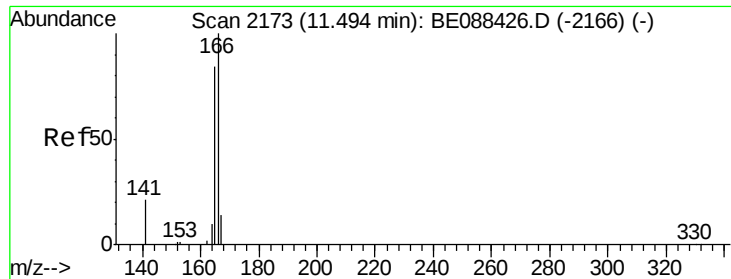
Ion Ratio Lower Upper

154 100

153 406.8 324.3 486.5

152 193.5 154.9 232.3

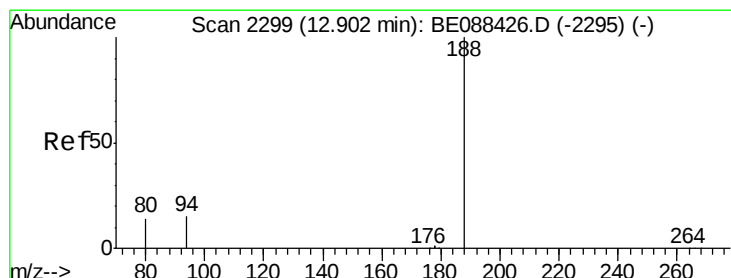
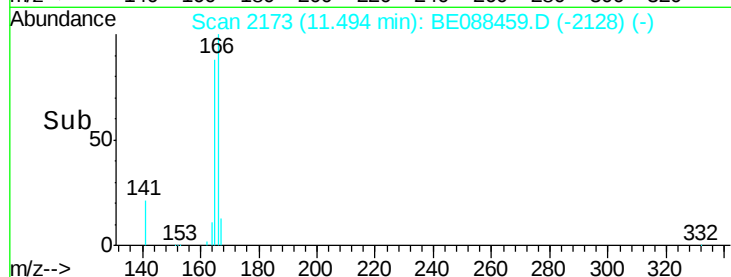
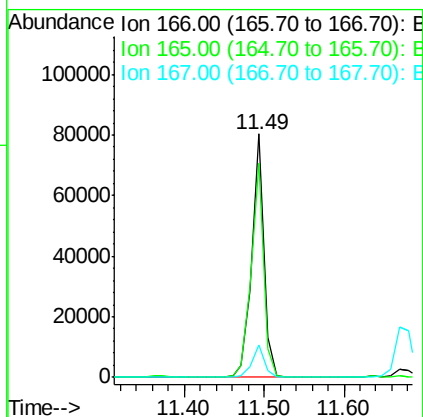
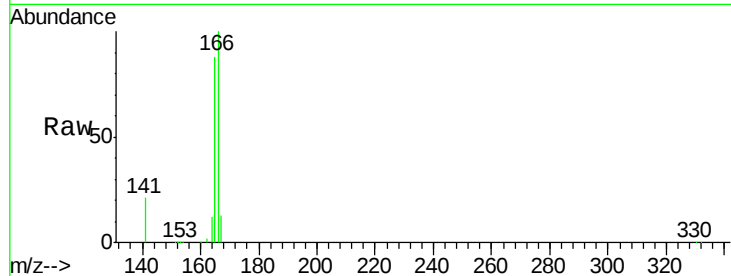




#11
 Fluorene
 Concen: 6.26 ng
 RT: 11.49 min Scan# 2173
 Delta R.T. -0.00 min
 Lab File: BE088459.D
 Acq: 1 Nov 2014 19:49

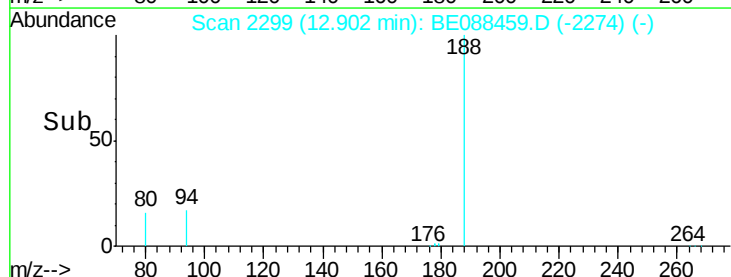
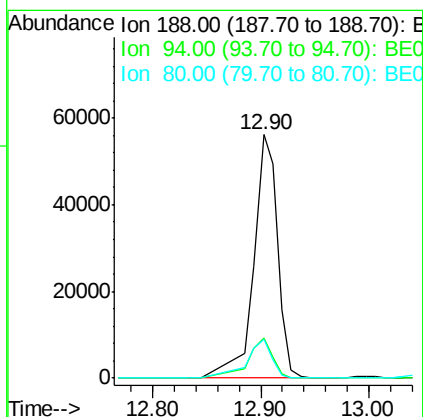
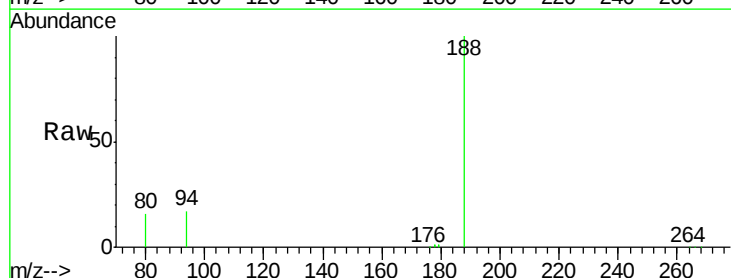
Instrument :
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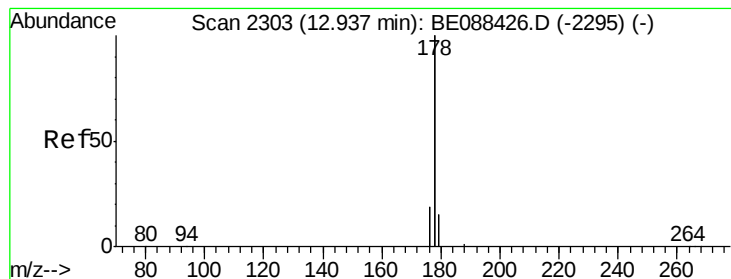
Tgt Ion:166 Resp: 83818
 Ion Ratio Lower Upper
 166 100
 165 90.2 71.3 106.9
 167 13.4 10.7 16.1



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.90 min Scan# 2299
 Delta R.T. 0.00 min
 Lab File: BE088459.D
 Acq: 1 Nov 2014 19:49

Tgt Ion:188 Resp: 107436
 Ion Ratio Lower Upper
 188 100
 94 16.6 11.8 17.8
 80 15.7 10.9 16.3





#13

Phenanthrene

Concen: 6.50 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

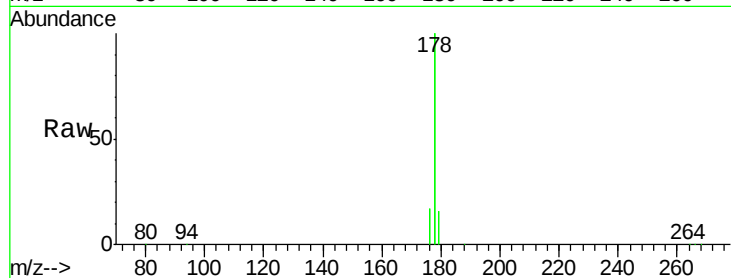
Tgt Ion:178 Resp: 634701

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

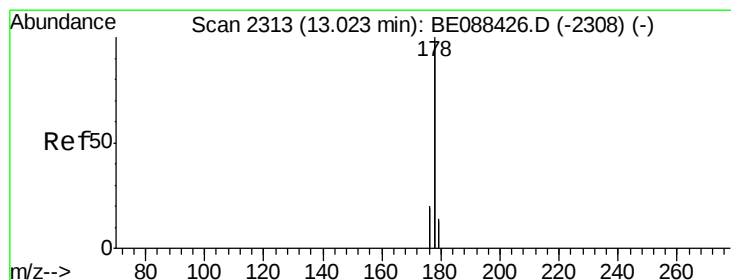
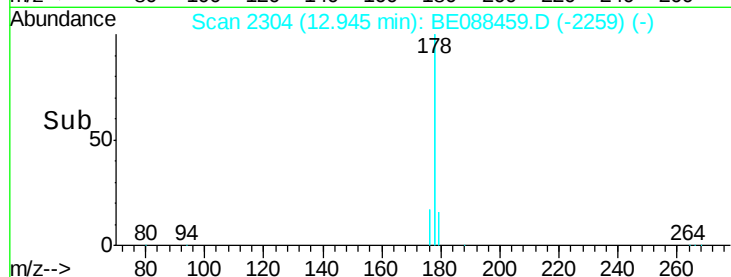
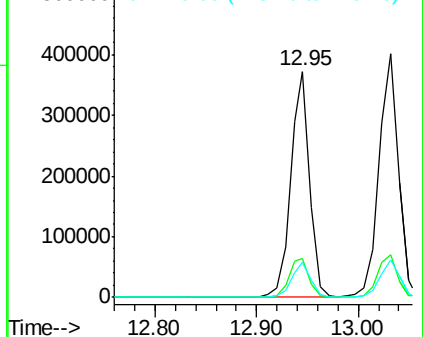
179 15.8 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 6.73 ng

RT: 13.03 min Scan# 2314

Delta R.T. 0.01 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

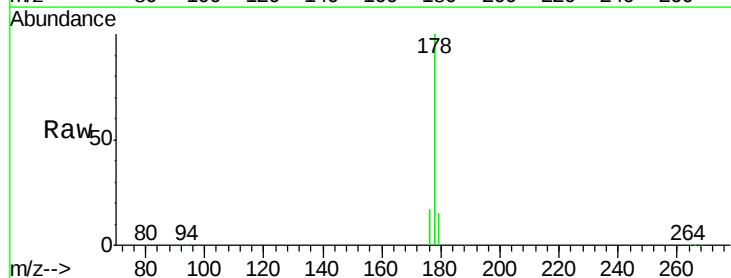
Tgt Ion:178 Resp: 530425

Ion Ratio Lower Upper

178 100

176 17.9 15.0 22.4

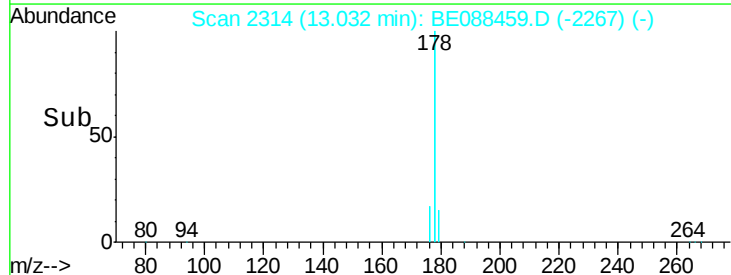
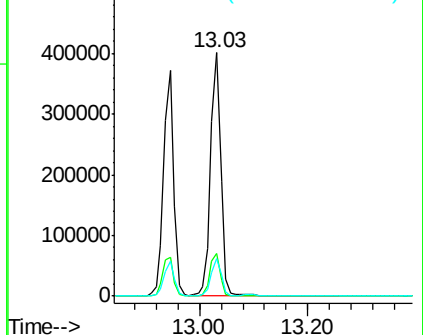
179 15.3 12.5 18.7

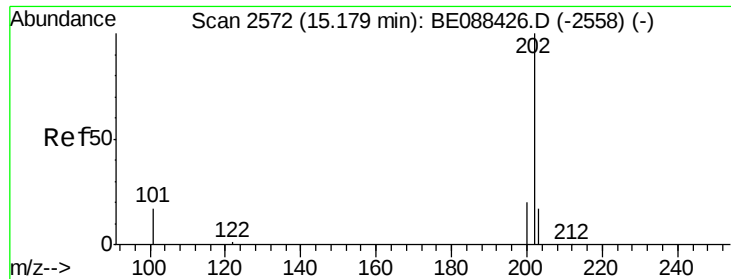


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 8.90 ng

RT: 15.18 min Scan# 2573

Delta R.T. 0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

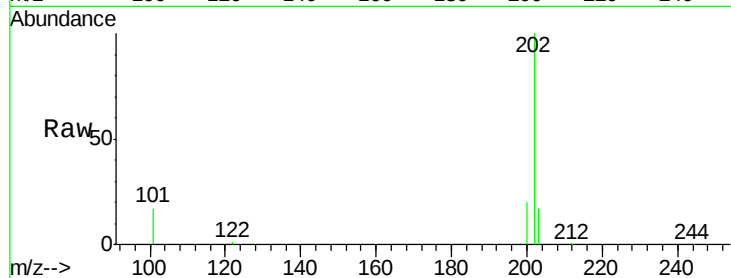
Tgt Ion:202 Resp: 141035

Ion Ratio Lower Upper

202 100

101 17.4 14.3 21.5

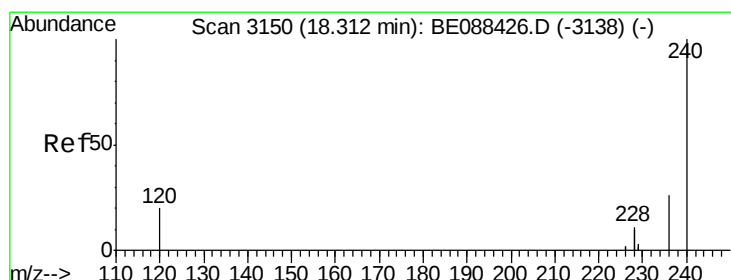
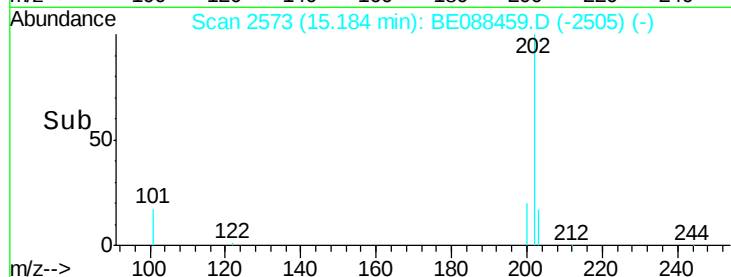
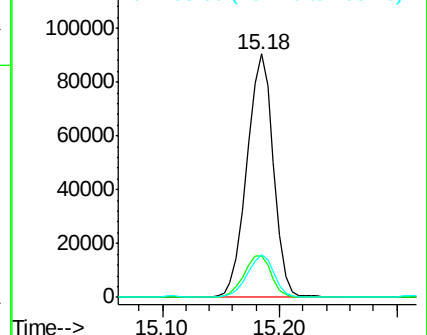
203 17.2 13.6 20.4



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: 18.33 min Scan# 3152

Delta R.T. 0.02 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

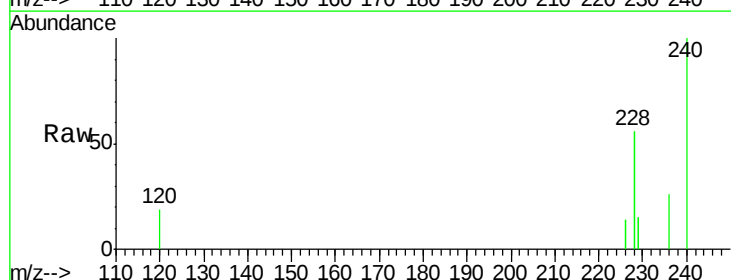
Tgt Ion:240 Resp: 60921

Ion Ratio Lower Upper

240 100

120 18.5 16.4 24.6

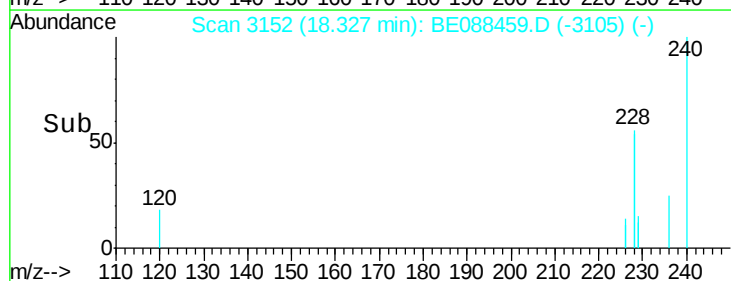
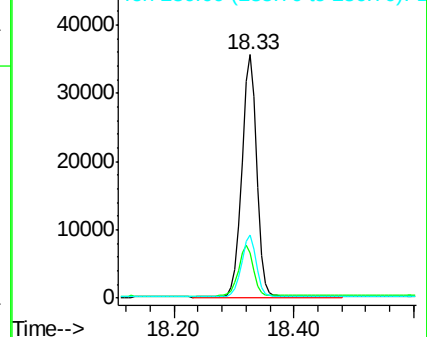
236 25.8 20.5 30.7

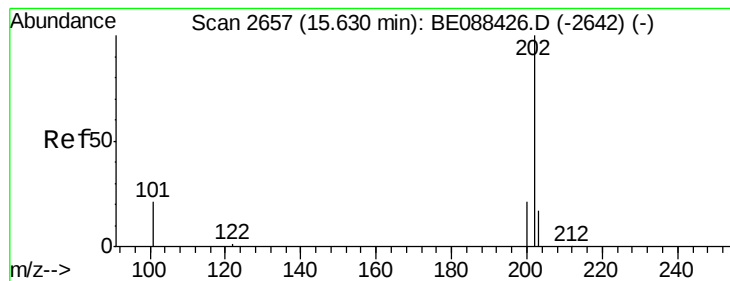


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 7.62 ng

RT: 15.64 min Scan# 2659

Delta R.T. 0.01 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

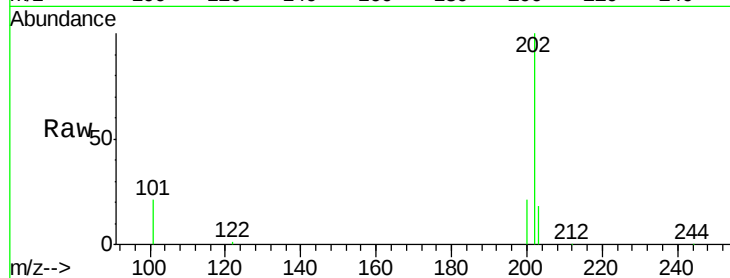
Tgt Ion: 202 Resp: 151374

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

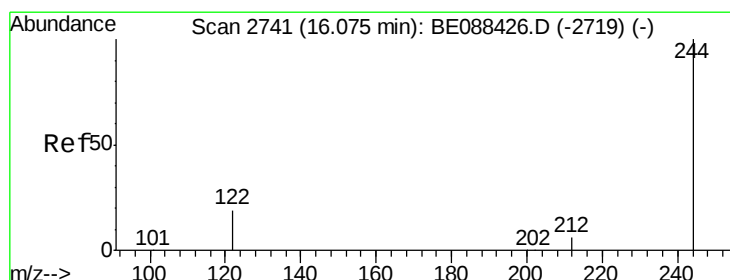
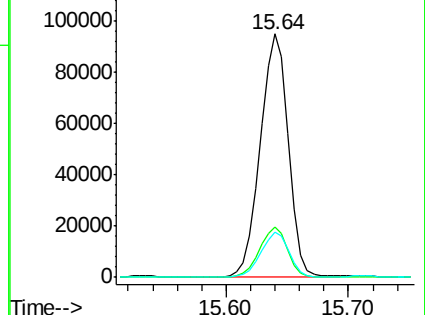
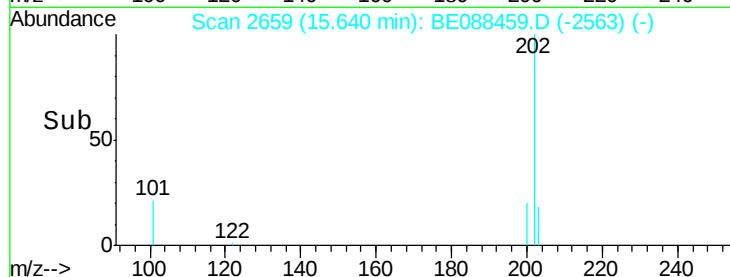
203 18.1 13.8 20.8



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: 5.61 ng

RT: 16.07 min Scan# 2741

Delta R.T. -0.00 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

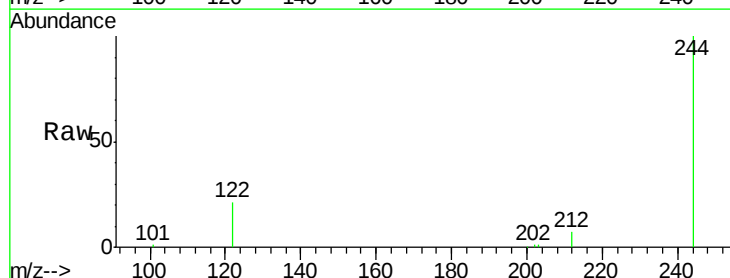
Tgt Ion: 244 Resp: 62756

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

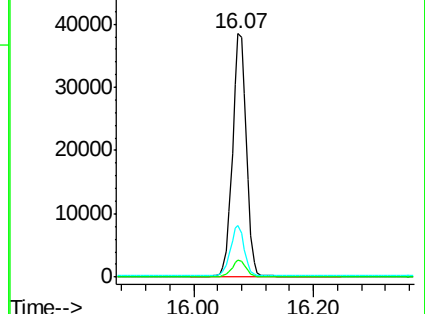
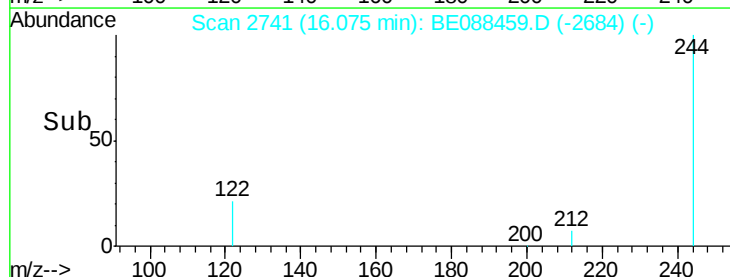
122 21.3 15.6 23.4

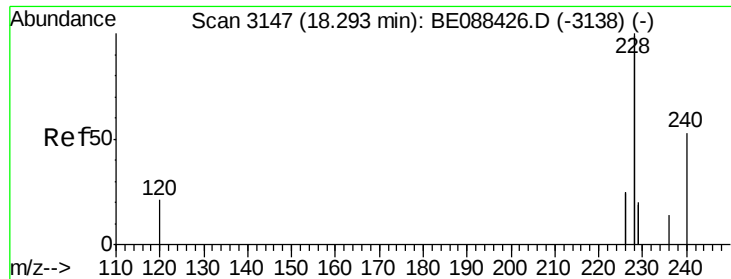


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 8.18 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.02 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

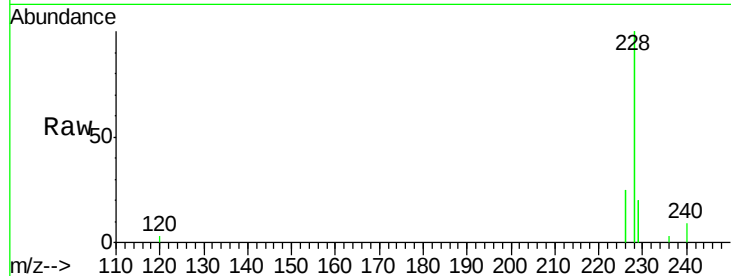
Tgt Ion:228 Resp: 468906

Ion Ratio Lower Upper

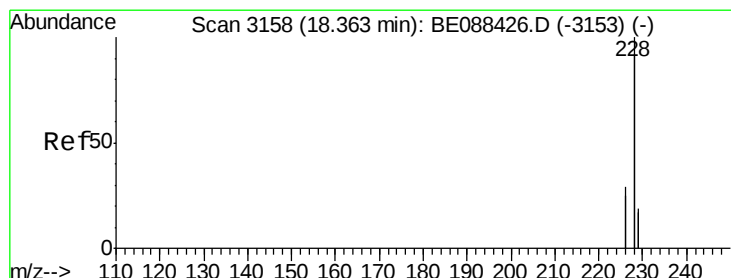
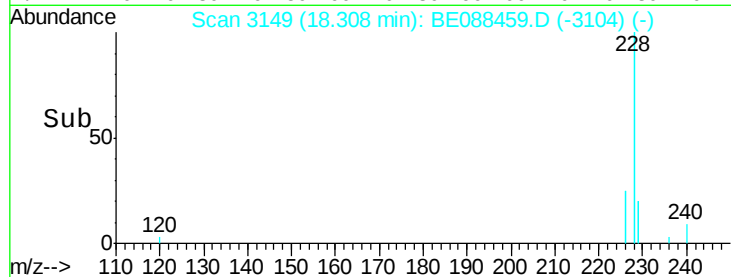
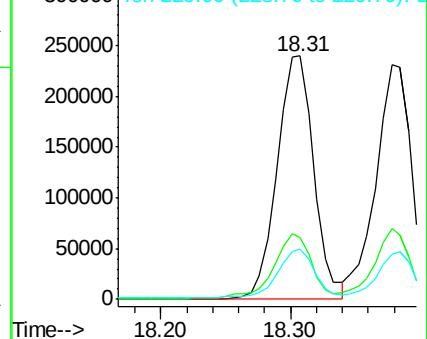
228 100

226 25.2 19.8 29.6

229 20.5 16.0 24.0



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: 7.74 ng

RT: 18.38 min Scan# 3160

Delta R.T. 0.02 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

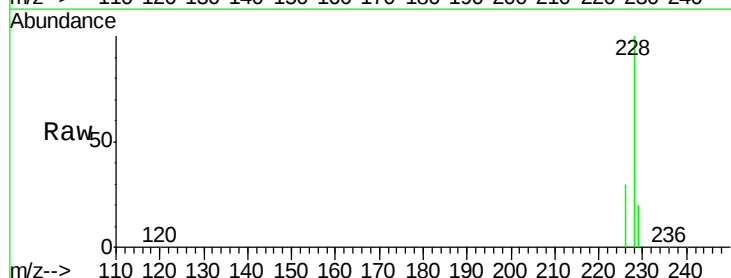
Tgt Ion:228 Resp: 435838

Ion Ratio Lower Upper

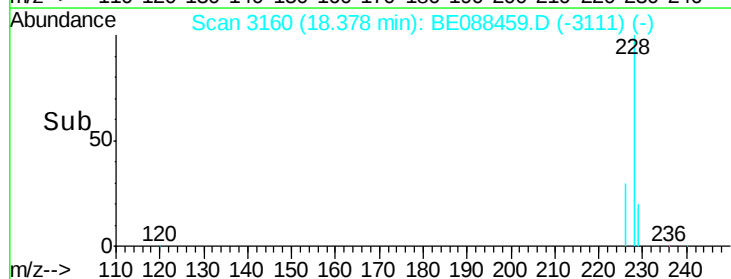
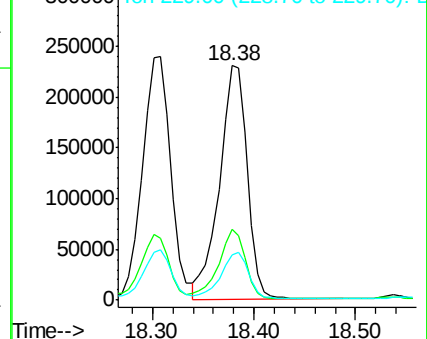
228 100

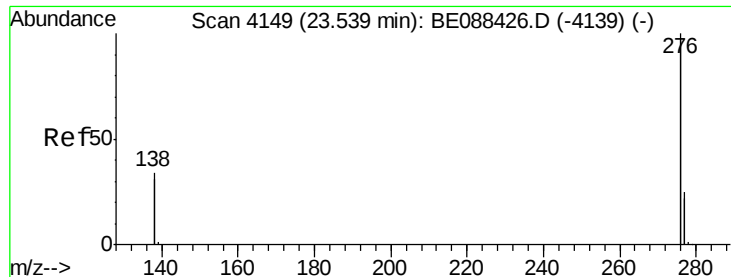
226 30.3 23.6 35.4

229 19.5 15.4 23.2



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: 7.59 ng

RT: 23.59 min Scan# 4157

Delta R.T. 0.05 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

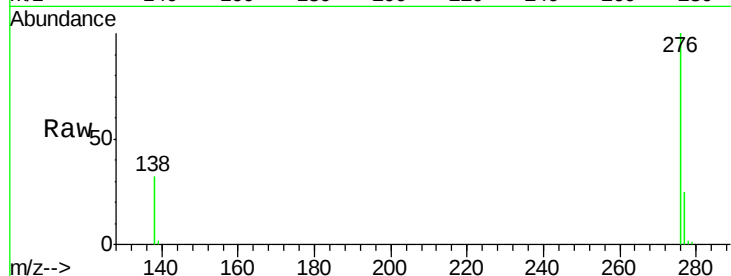
Tgt Ion:276 Resp: 398038

Ion Ratio Lower Upper

276 100

138 30.5 20.2 30.2#

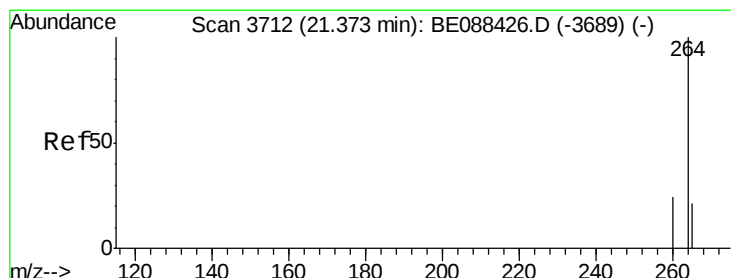
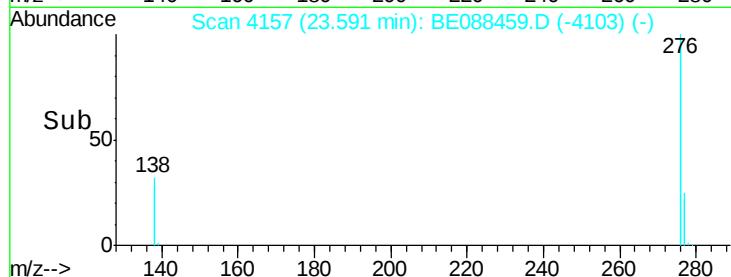
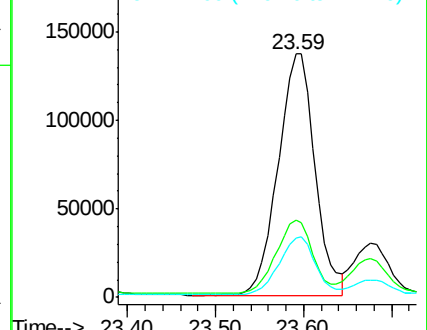
277 23.9 14.8 22.2#



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: 21.40 min Scan# 3717

Delta R.T. 0.02 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

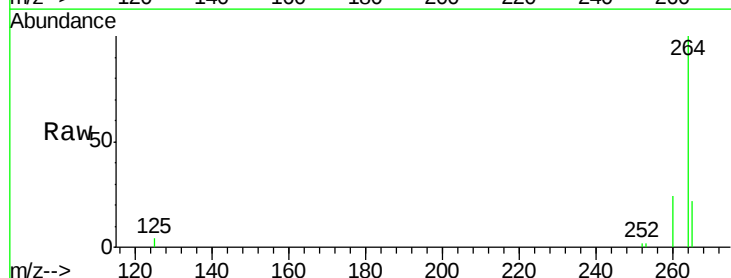
Tgt Ion:264 Resp: 59216

Ion Ratio Lower Upper

264 100

260 24.1 18.9 28.3

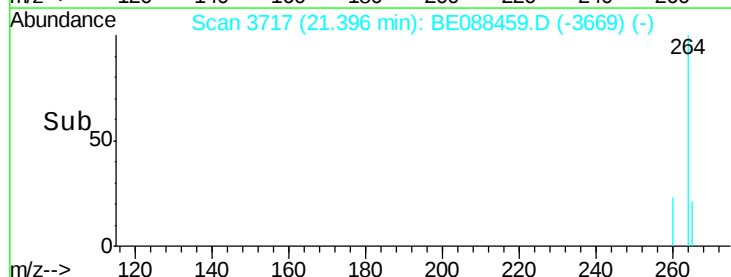
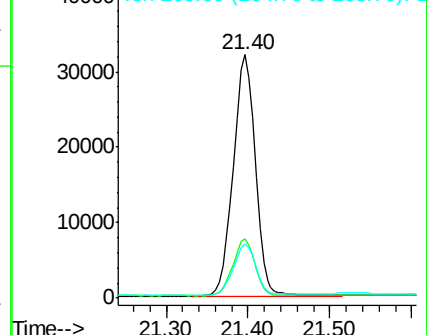
265 22.4 17.2 25.8

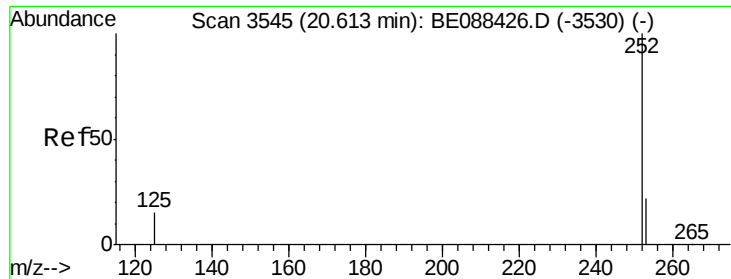


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

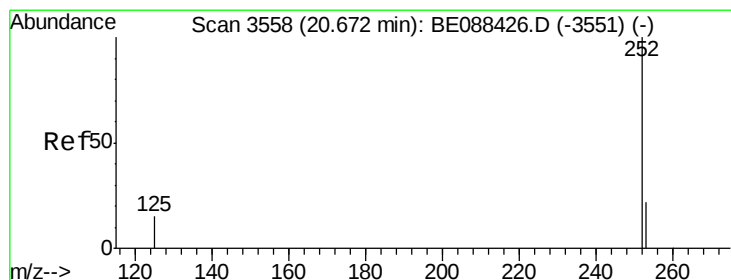
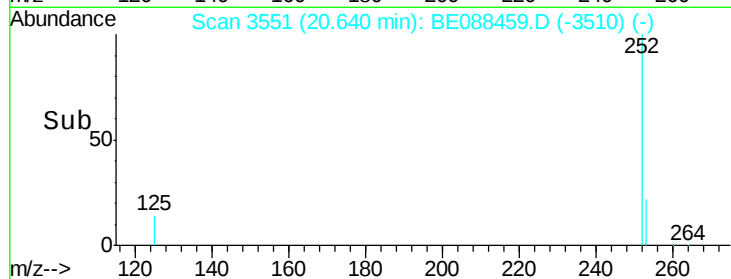
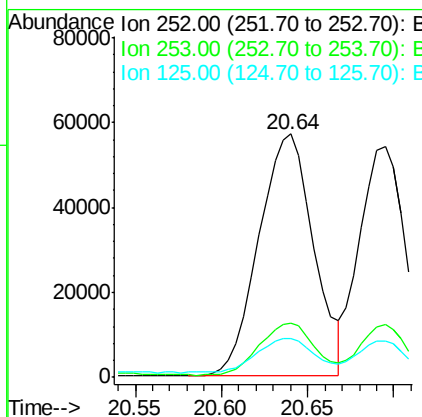
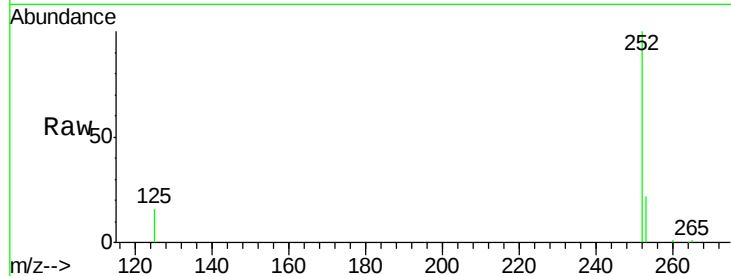




#23
Benzo(b)fluoranthene
Concen: 9.68 ng
RT: 20.64 min Scan# 3551
Delta R.T. 0.03 min
Lab File: BE088459.D
Acq: 1 Nov 2014 19:49

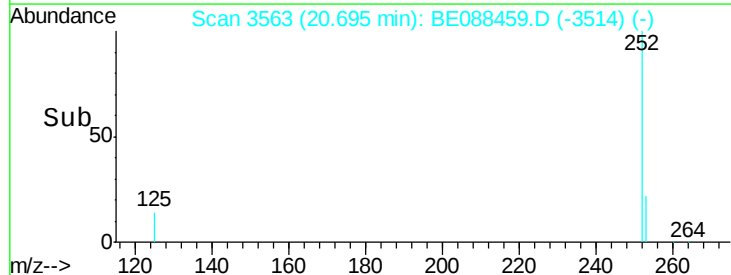
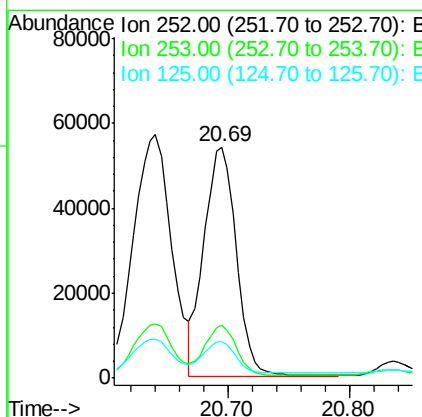
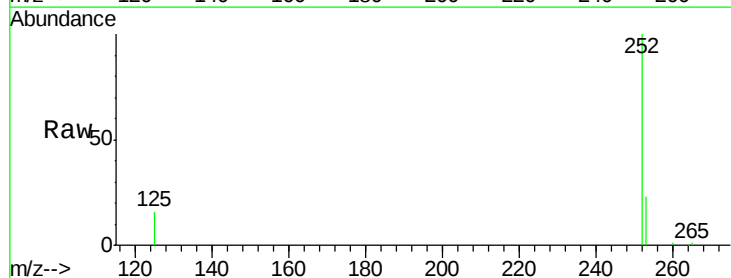
Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014MS

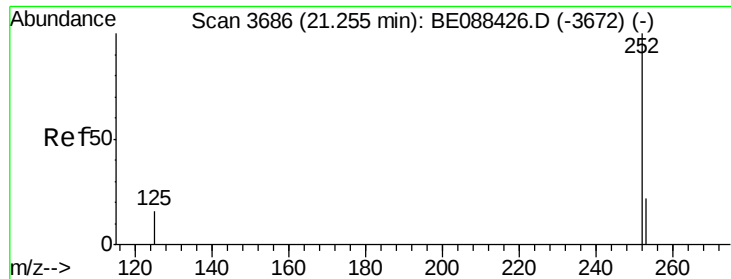
Tgt Ion: 252 Resp: 125743
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 15.9 12.3 18.5



#24
Benzo(k)fluoranthene
Concen: 7.06 ng
RT: 20.69 min Scan# 3563
Delta R.T. 0.02 min
Lab File: BE088459.D
Acq: 1 Nov 2014 19:49

Tgt Ion: 252 Resp: 100933
Ion Ratio Lower Upper
252 100
253 22.6 17.8 26.8
125 15.8 12.2 18.4





#25

Benzo(a)pyrene

Concen: 8.60 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS

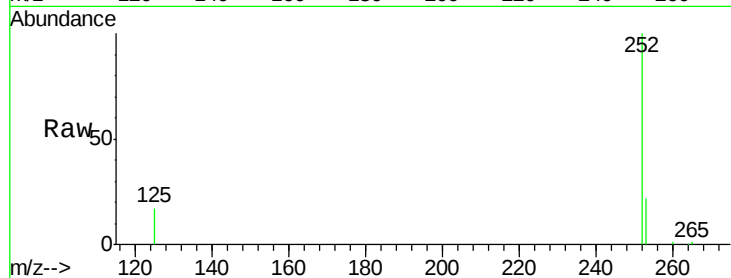
Tgt Ion:252 Resp: 107272

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.4

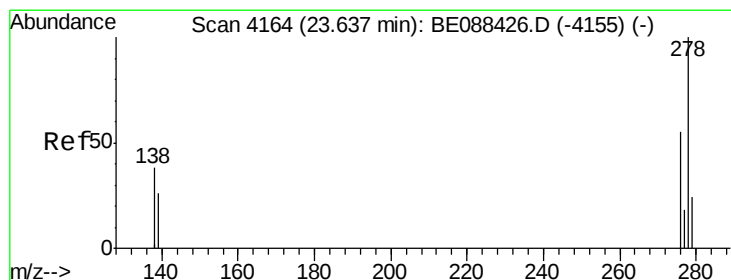
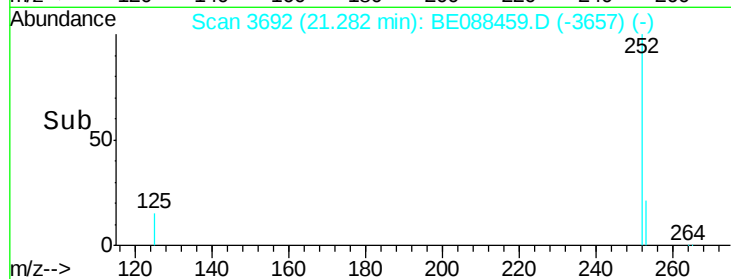
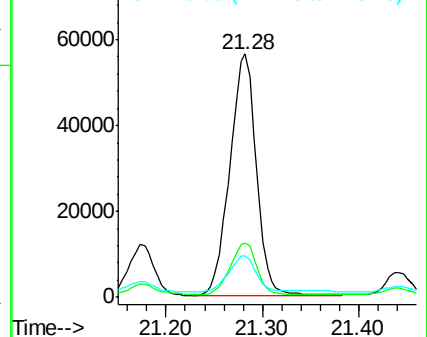
125 17.0 13.7 20.5



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: 7.15 ng

RT: 23.68 min Scan# 4171

Delta R.T. 0.05 min

Lab File: BE088459.D

Acq: 1 Nov 2014 19:49

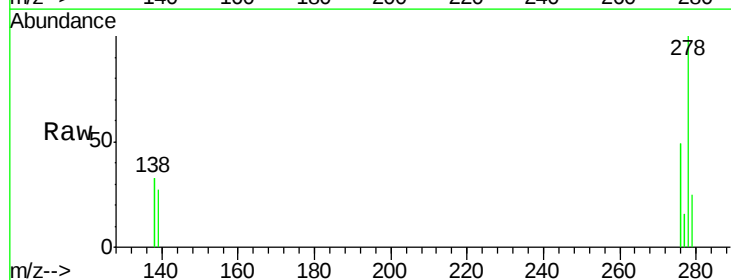
Tgt Ion:278 Resp: 82739

Ion Ratio Lower Upper

278 100

139 27.1 22.1 33.1

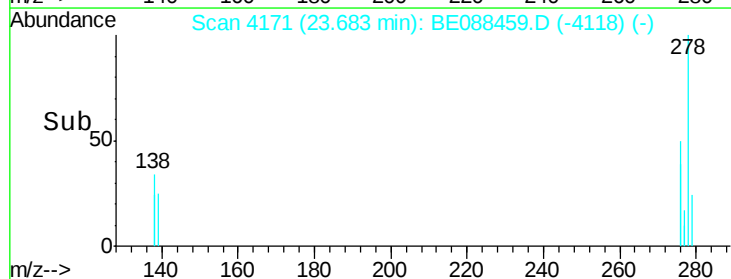
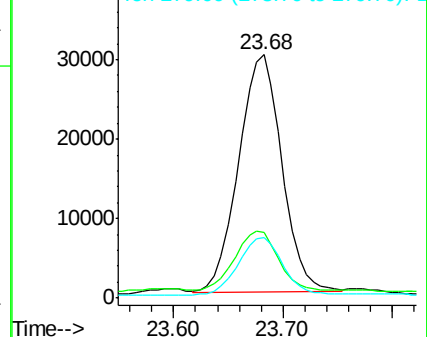
279 24.8 19.7 29.5

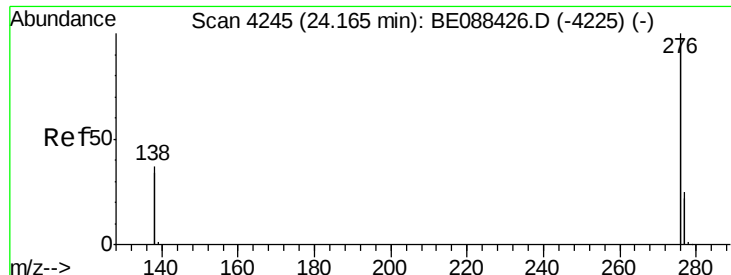


Abundance Ion 278.00 (277.70 to 278.70): E

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: 8.01 ng

RT: 24.23 min Scan# 4255

Delta R.T. 0.07 min

Lab File: BE088459.D

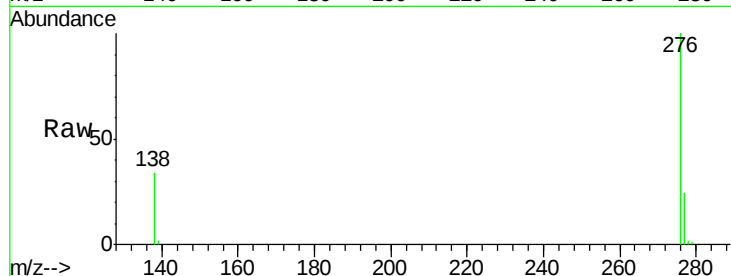
Acq: 1 Nov 2014 19:49

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014MS



Tgt Ion: 276 Resp: 425317

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 34.0 29.3 43.9

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

