

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088465.D
 Acq On : 1 Nov 2014 23:09
 Operator : TP/JJ
 Sample : F4368-08RE
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

Quant Time: Nov 02 04:22:08 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	7.09	152	31439	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	115739	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	54538	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	113636	5.00	ng	0.00
16) Chrysene-d12	18.33	240	68436	5.00	ng	0.01
22) Perylene-d12	21.40	264	67002	5.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.79	82	484722	57.11	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	549038	35.72	ng	0.00
18) Terphenyl-d14	16.10	244	412466	32.81	ng	0.03

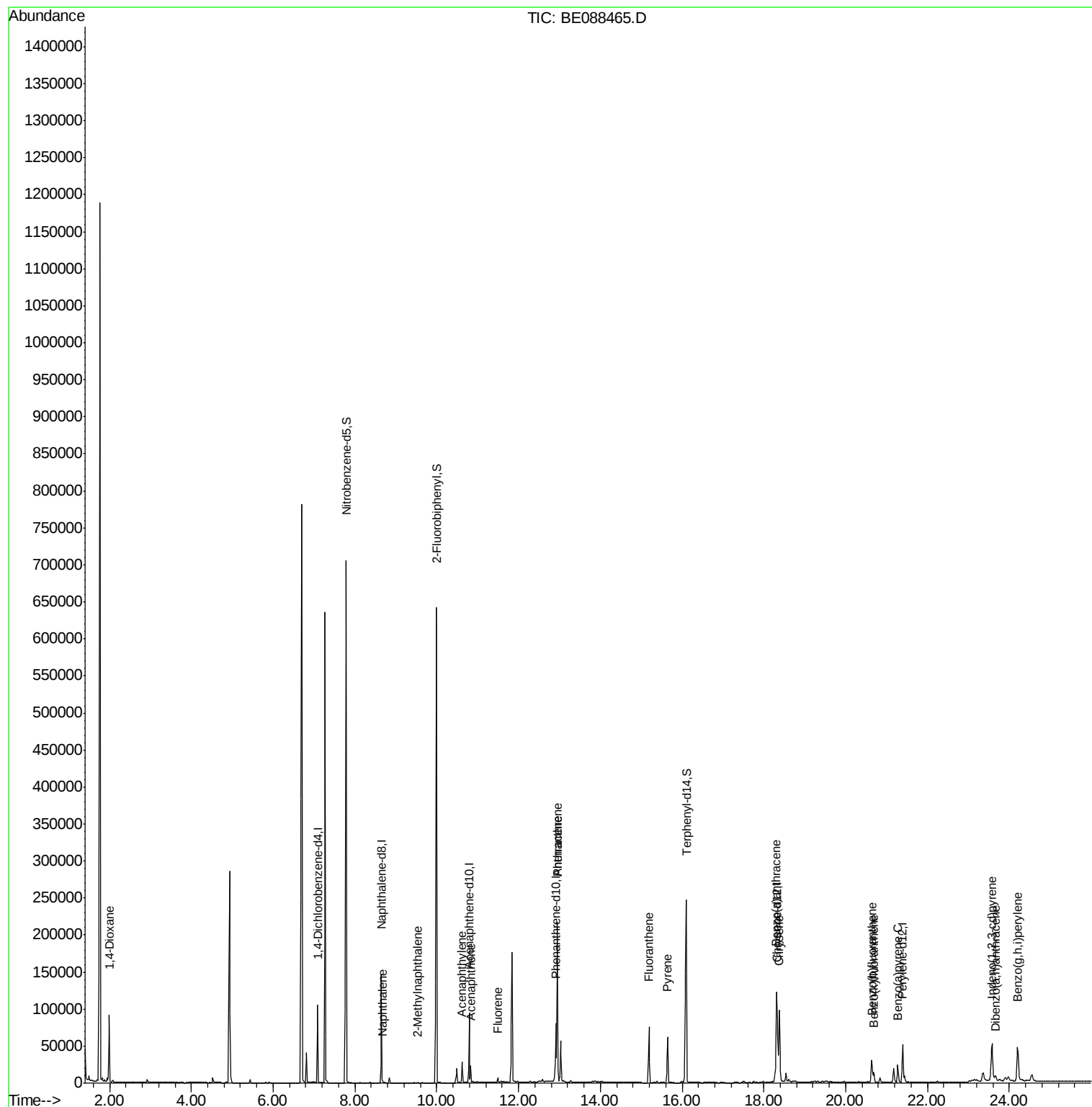
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.99	88	3065	0.75	ng	# 1
5) Naphthalene	8.68	128	2275	0.09	ng	# 95
6) 2-Methylnaphthalene	9.53	142	645	0.04	ng	# 94
9) Acenaphthylene	10.62	152	32977	0.37	ng	# 94
10) Acenaphthene	10.83	154	3558	0.27	ng	# 97
11) Fluorene	11.49	166	3046	0.22	ng	# 95
13) Phenanthrene	12.95	178	258061	2.50	ng	99
14) Anthracene	12.95	178	258061	3.09	ng	99
15) Fluoranthene	15.19	202	74258	4.43	ng	99
17) Pyrene	15.65	202	61402	2.75	ng	96
19) Benzo(a)anthracene	18.31	228	135916	2.11	ng	99
20) Chrysene	18.38	228	142751	2.26	ng	95
21) Indeno(1,2,3-cd)pyrene	23.58	276	89942	1.53	ng	# 87
23) Benzo(b)fluoranthene	20.64	252	50561	3.44	ng	98
24) Benzo(k)fluoranthene	20.69	252	17552	1.08	ng	96
25) Benzo(a)pyrene	21.27	252	31651	2.24	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	5096	0.39	ng	# 77
27) Benzo(g,h,i)perylene	24.21	276	87312	1.45	ng	98

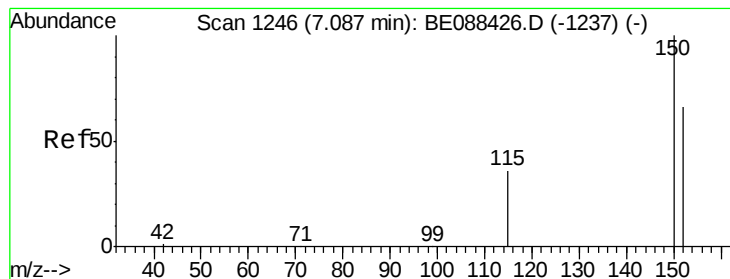
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
Data File : BE088465.D
Acq On : 1 Nov 2014 23:09
Operator : TP/JJ
Sample : F4368-08RE
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014RE

Quant Time: Nov 02 04:22:08 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

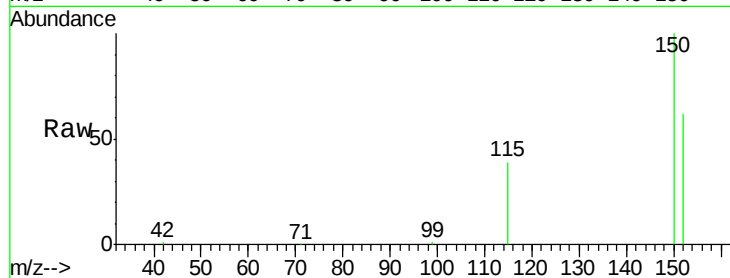
Tgt Ion:152 Resp: 31439

Ion Ratio Lower Upper

152 100

150 162.1 121.8 182.8

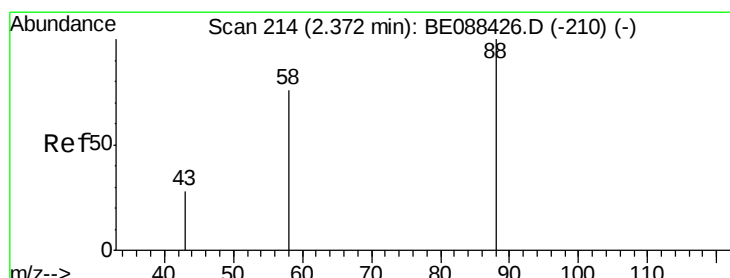
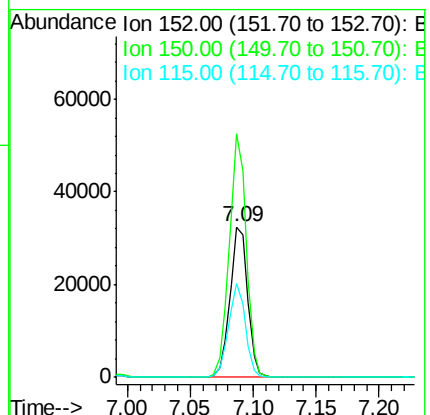
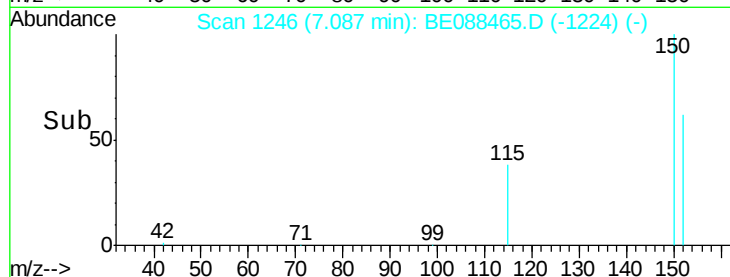
115 62.5 43.9 65.9



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: 0.75 ng

RT: 1.99 min Scan# 131

Delta R.T. -0.38 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

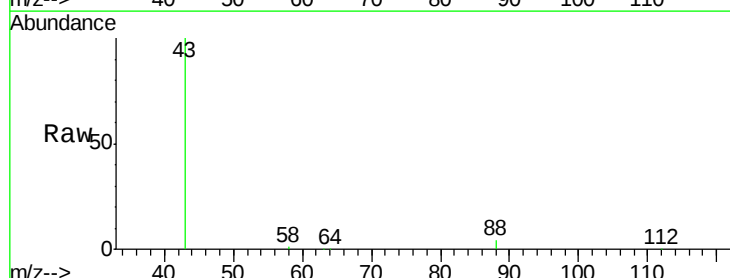
Tgt Ion: 88 Resp: 3065

Ion Ratio Lower Upper

88 100

58 25.3 59.1 88.7#

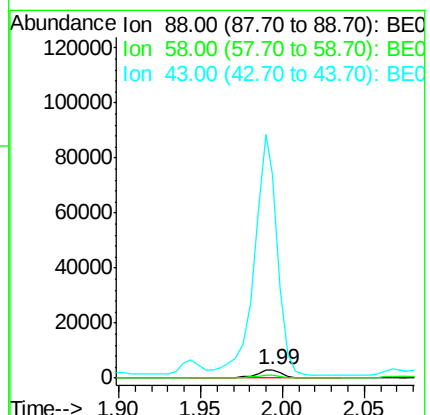
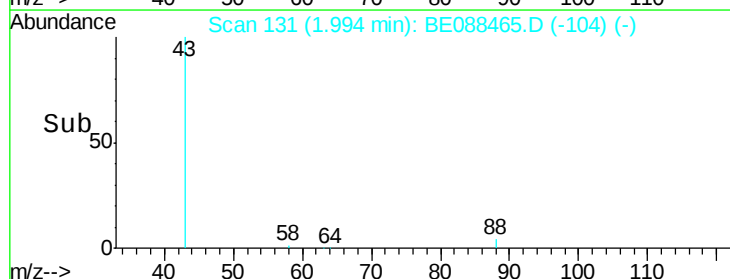
43 2792.8 21.9 32.9#

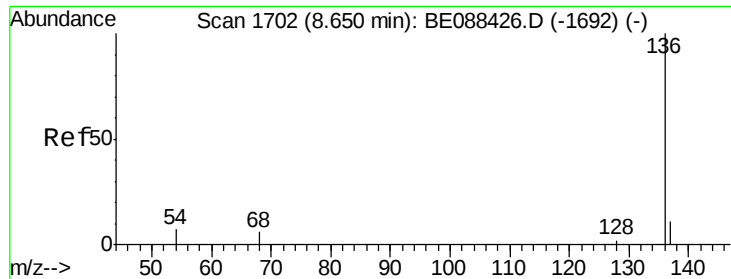


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

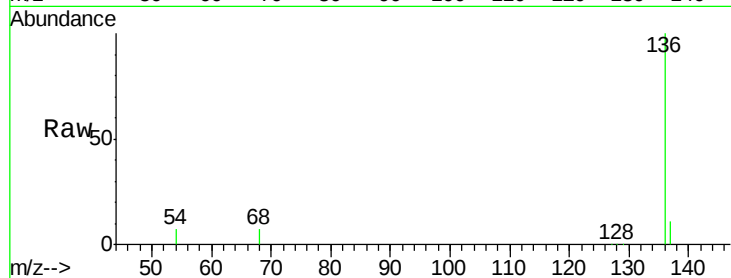




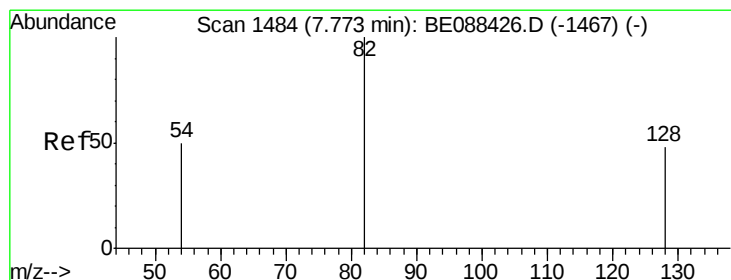
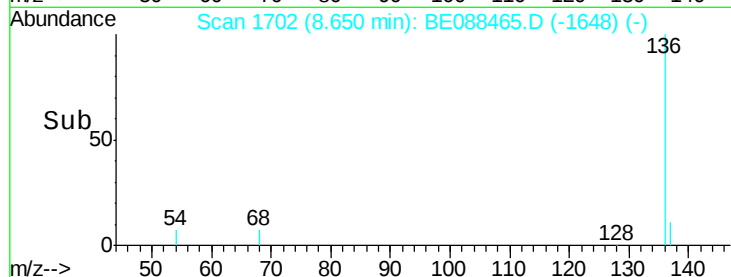
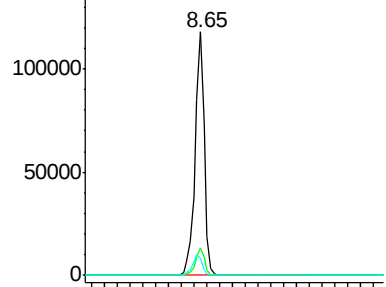
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014RE

Tgt Ion: 136 Resp: 115739
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.0 5.3 7.9

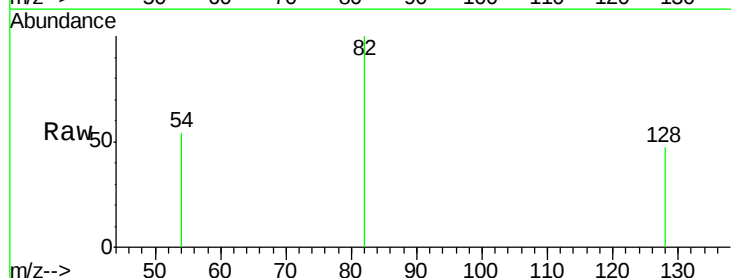


Abundance Ion 136.00 (135.70 to 136.70): BE0
Ion 137.00 (136.70 to 137.70): BE0
Ion 54.00 (53.70 to 54.70): BE0

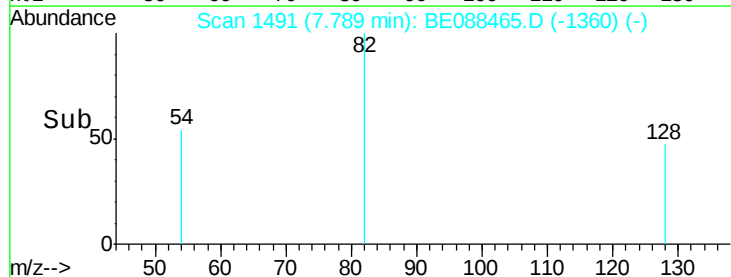
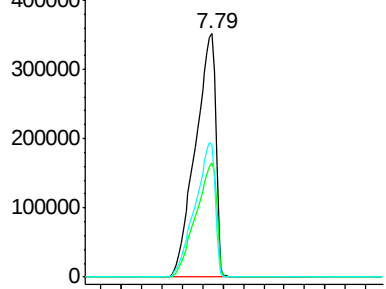


#4
Nitrobenzene-d5
Concen: 57.11 ng
RT: 7.79 min Scan# 1491
Delta R.T. 0.02 min
Lab File: BE088465.D
Acq: 1 Nov 2014 23:09

Tgt Ion: 82 Resp: 484722
Ion Ratio Lower Upper
82 100
128 46.9 38.4 57.6
54 54.1 40.2 60.2



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: 0.09 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

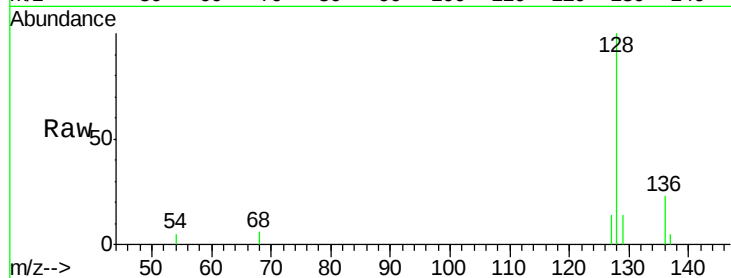
Tgt Ion:128 Resp: 2275

Ion Ratio Lower Upper

128 100

129 13.7 8.6 12.8#

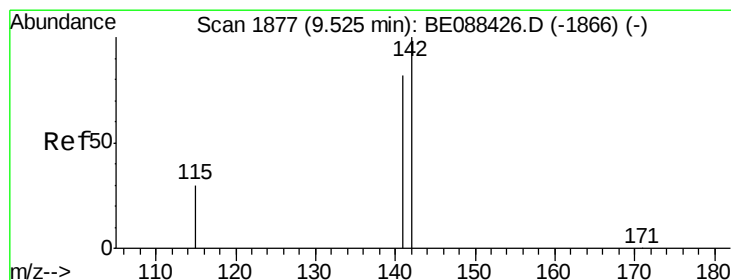
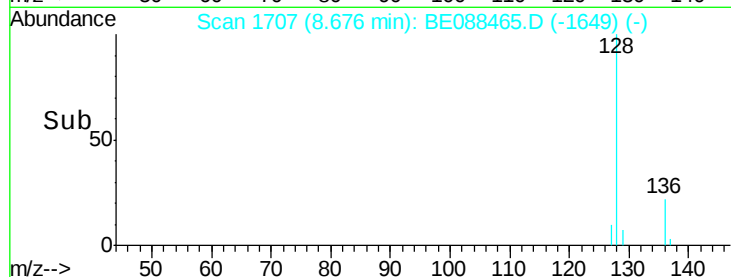
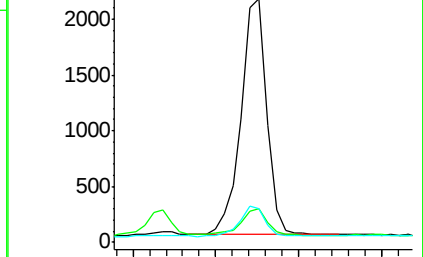
127 13.7 10.1 15.1



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: 0.04 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

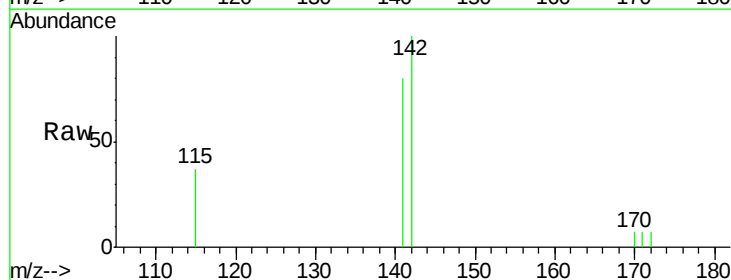
Tgt Ion:142 Resp: 645

Ion Ratio Lower Upper

142 100

141 79.6 65.8 98.8

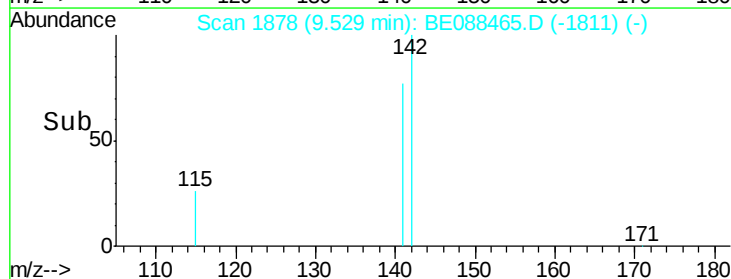
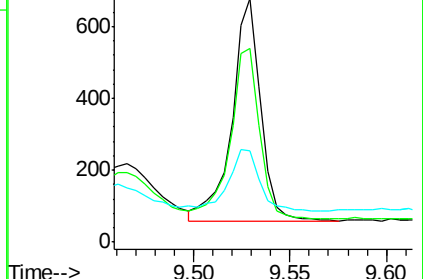
115 37.4 24.2 36.4#



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: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

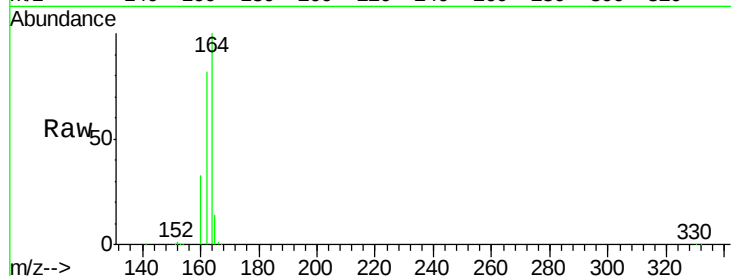
Tgt Ion:164 Resp: 54538

Ion Ratio Lower Upper

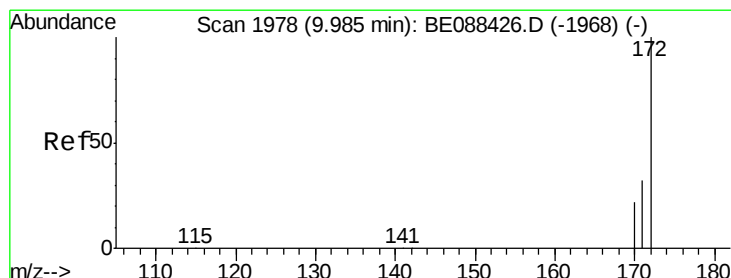
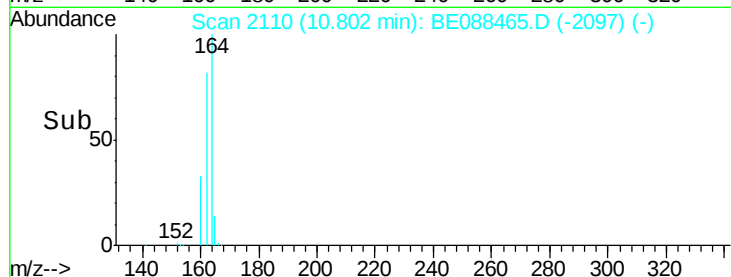
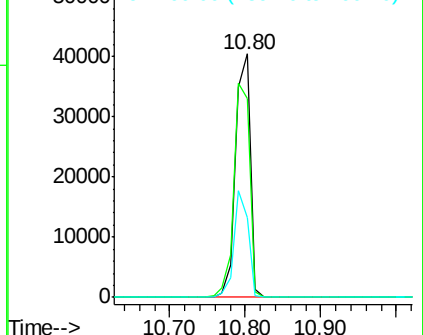
164 100

162 81.9 77.0 115.4

160 32.9 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: 35.72 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

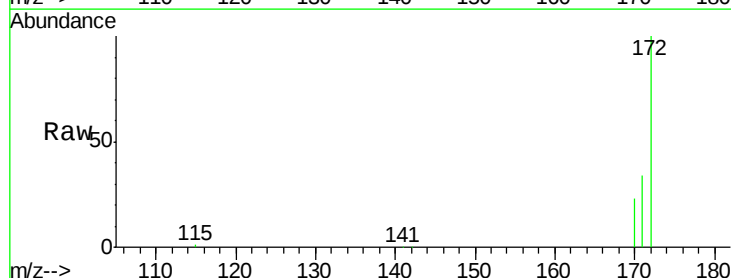
Tgt Ion:172 Resp: 549038

Ion Ratio Lower Upper

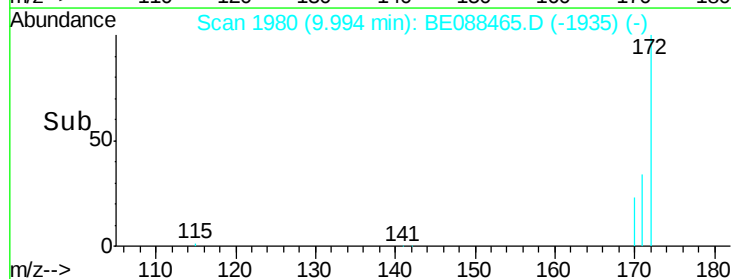
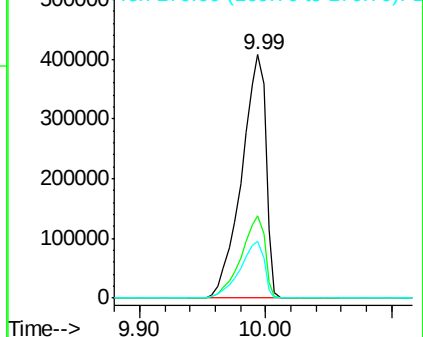
172 100

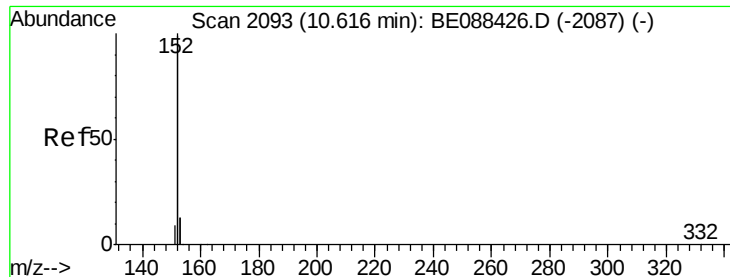
171 33.7 26.0 39.0

170 23.3 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: 0.37 ng

RT: 10.62 min Scan# 2093

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

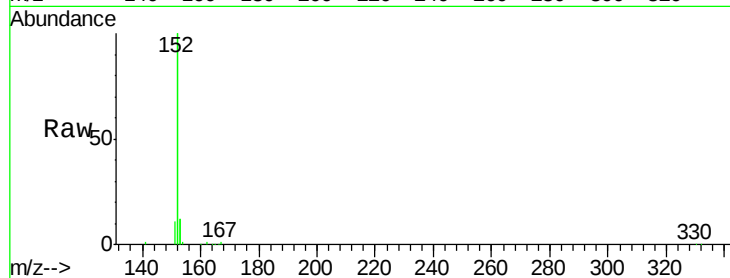
Tgt Ion:152 Resp: 32977

Ion Ratio Lower Upper

152 100

151 4.4 4.4 6.6

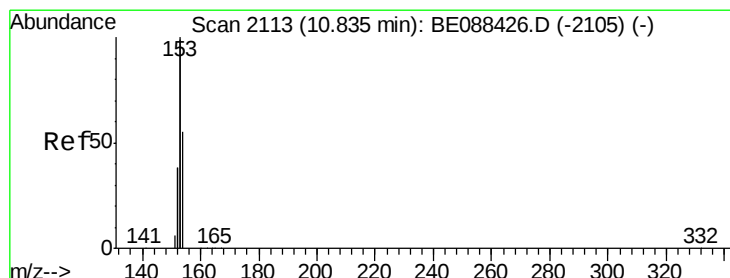
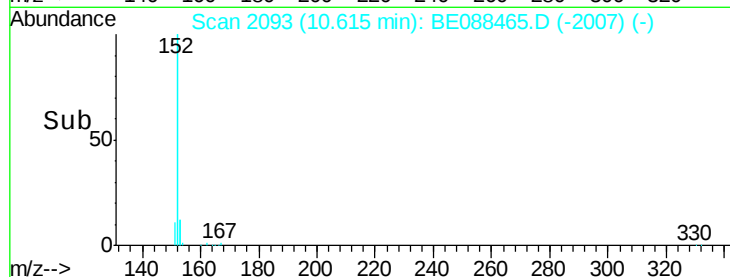
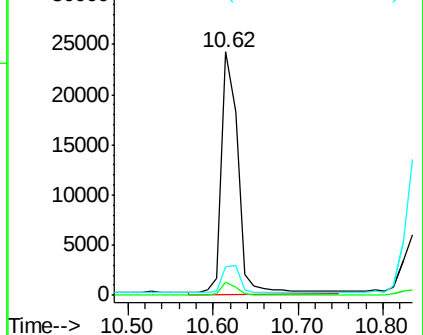
153 15.8 10.5 15.7#



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: 0.27 ng

RT: 10.83 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

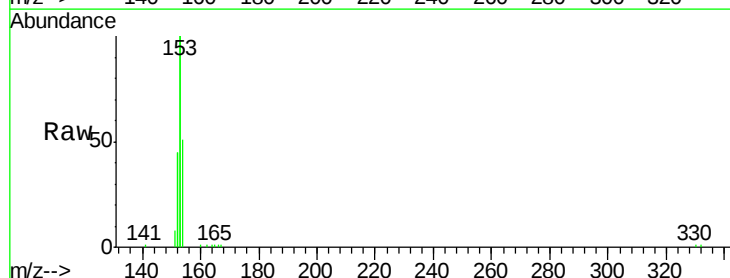
Tgt Ion:154 Resp: 3558

Ion Ratio Lower Upper

154 100

153 408.6 324.3 486.5

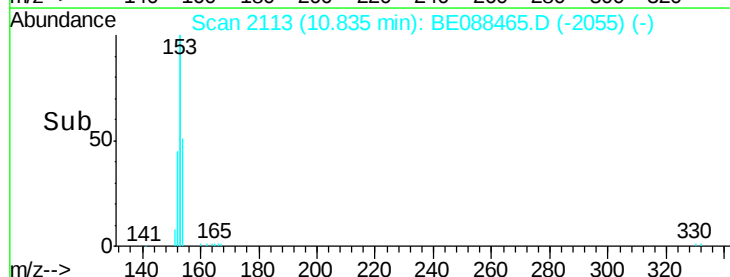
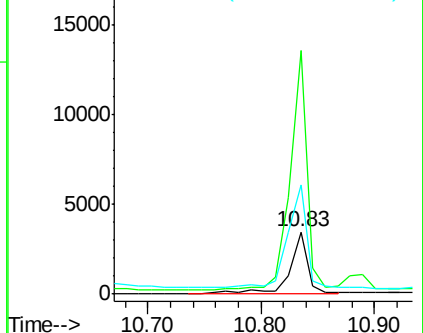
152 204.5 154.9 232.3

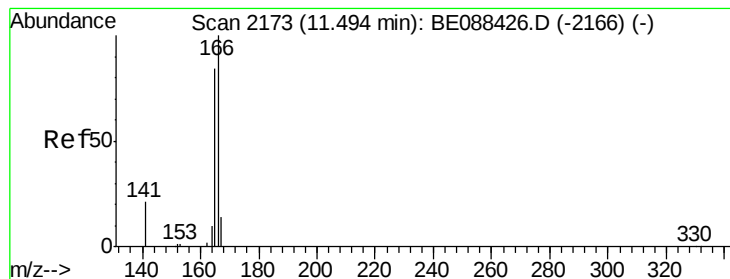


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.22 ng

RT: 11.49 min Scan# 2173

Delta R.T. -0.00 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

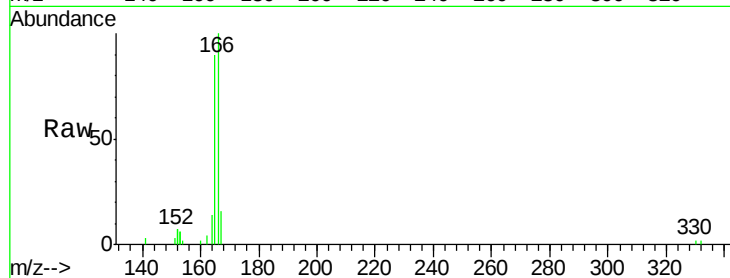
Tgt Ion:166 Resp: 3046

Ion Ratio Lower Upper

166 100

165 93.5 71.3 106.9

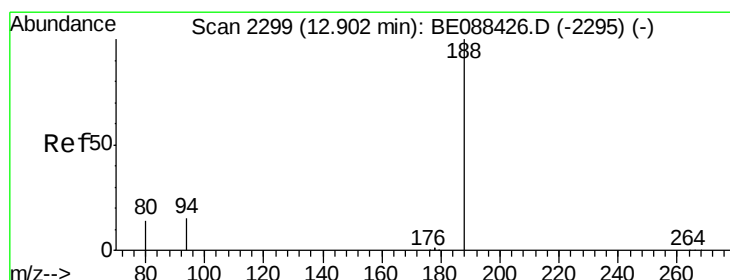
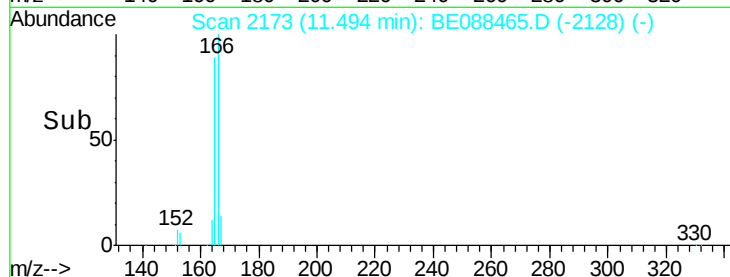
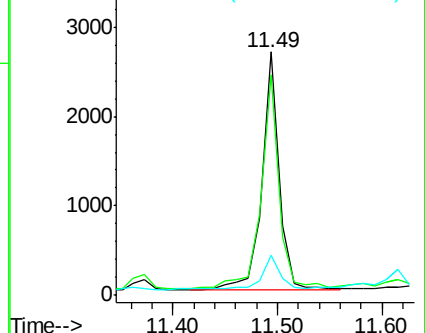
167 16.1 10.7 16.1#



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: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

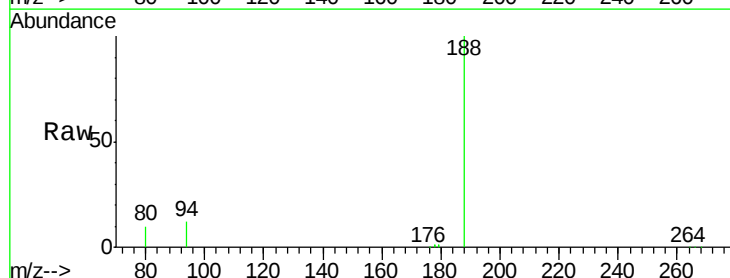
Tgt Ion:188 Resp: 113636

Ion Ratio Lower Upper

188 100

94 11.6 11.8 17.8#

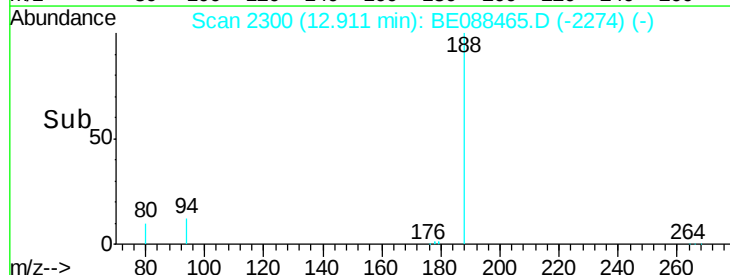
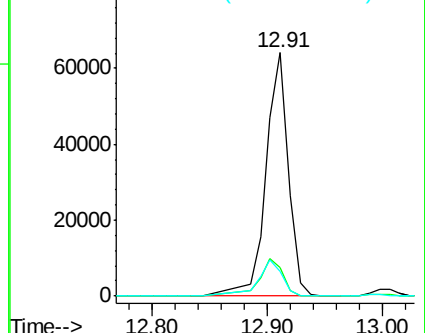
80 10.2 10.9 16.3#

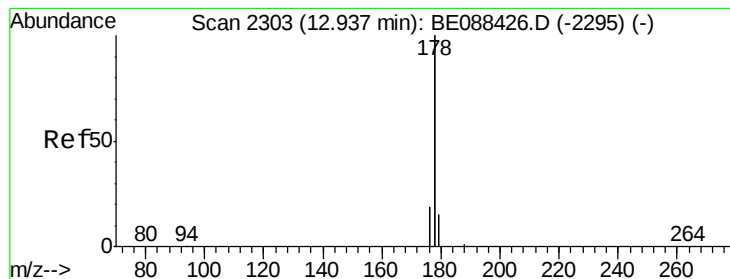


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 2.50 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

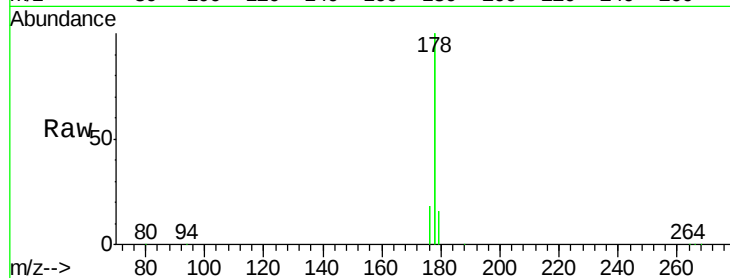
Tgt Ion:178 Resp: 258061

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

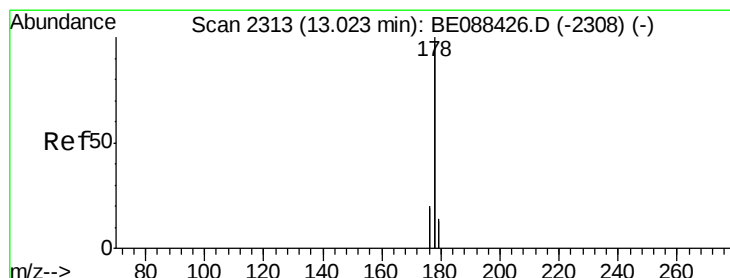
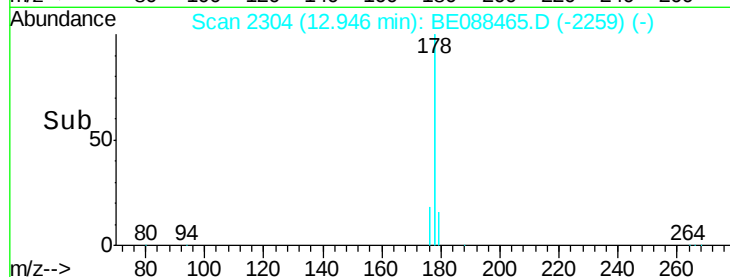
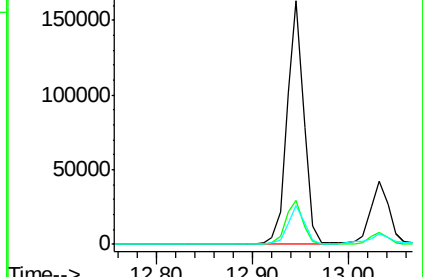
179 16.7 12.8 19.2



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: 3.09 ng

RT: 12.95 min Scan# 2304

Delta R.T. -0.08 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

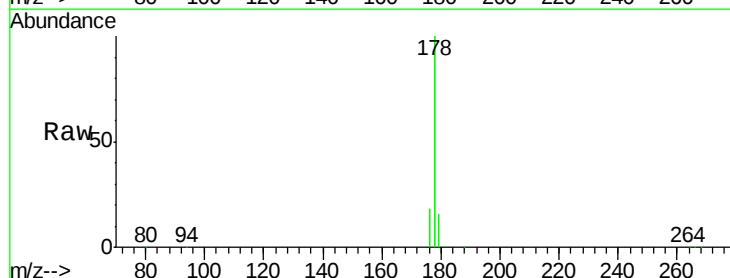
Tgt Ion:178 Resp: 258061

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

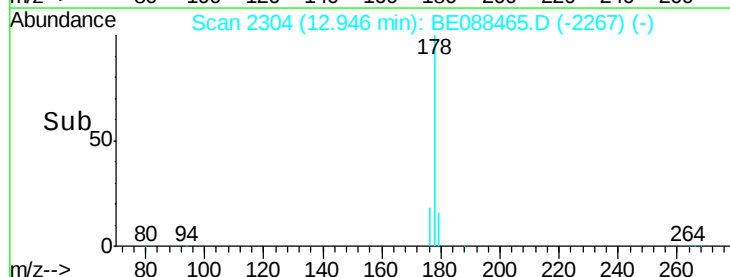
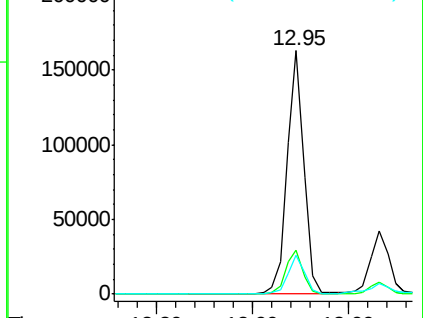
179 16.7 12.5 18.7

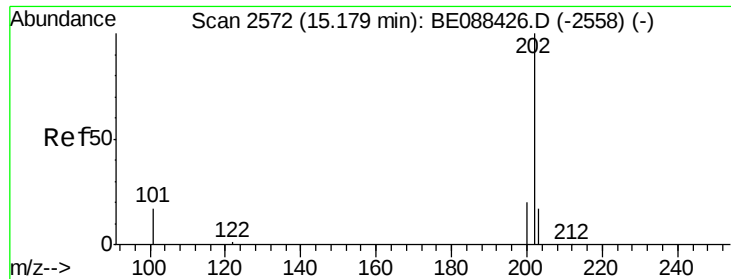


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

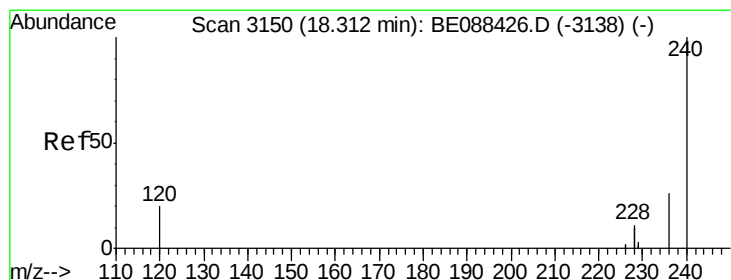
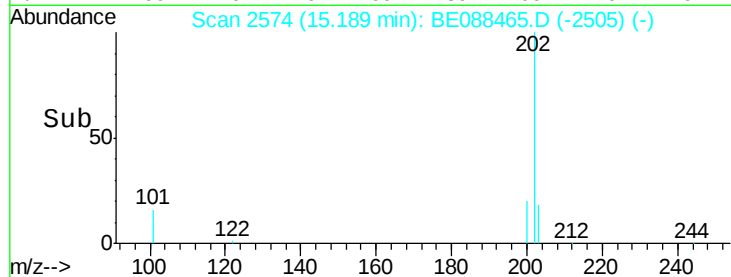
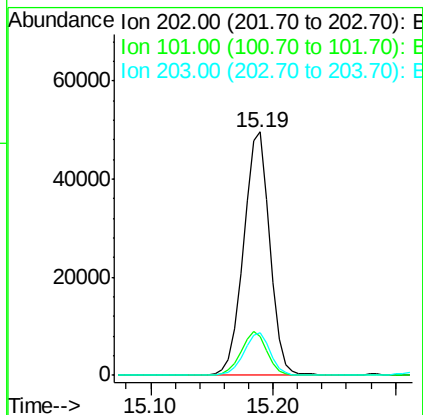
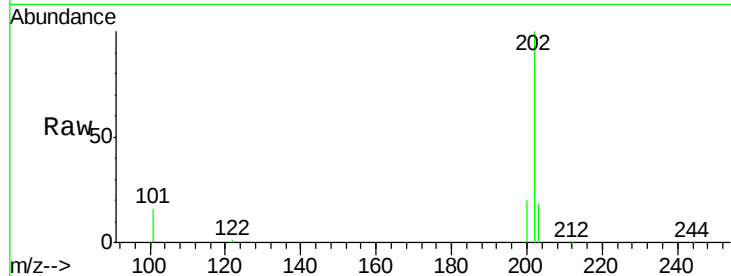




#15
Fluoranthene
 Concen: 4.43 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

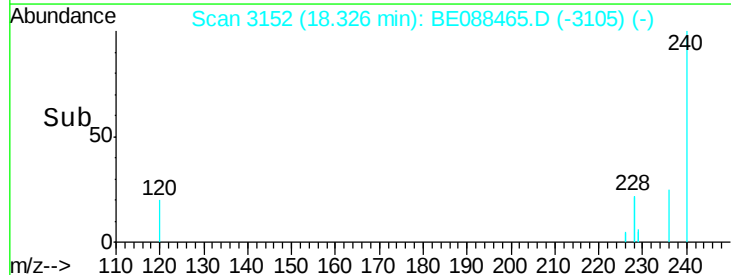
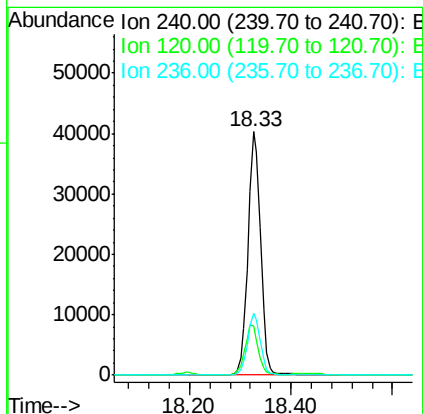
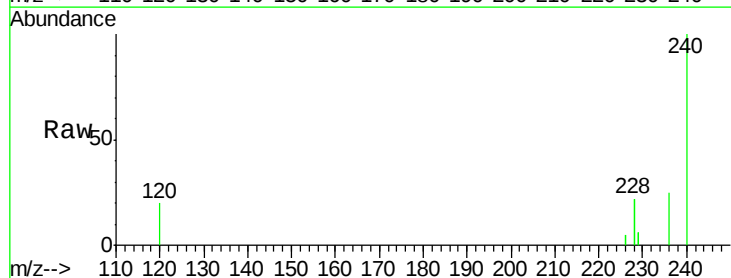
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

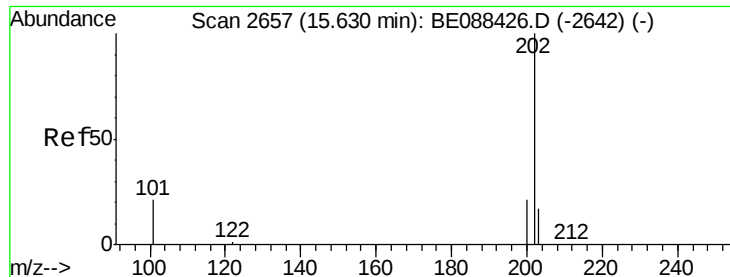
Tgt Ion: 202 Resp: 74258
 Ion Ratio Lower Upper
 202 100
 101 17.6 14.3 21.5
 203 17.2 13.6 20.4



#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3152
 Delta R.T. 0.01 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Tgt Ion: 240 Resp: 68436
 Ion Ratio Lower Upper
 240 100
 120 20.3 16.4 24.6
 236 25.4 20.5 30.7

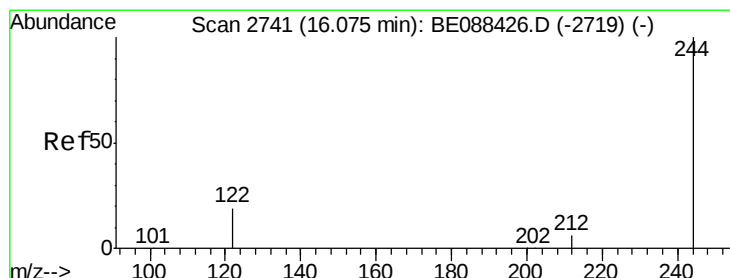
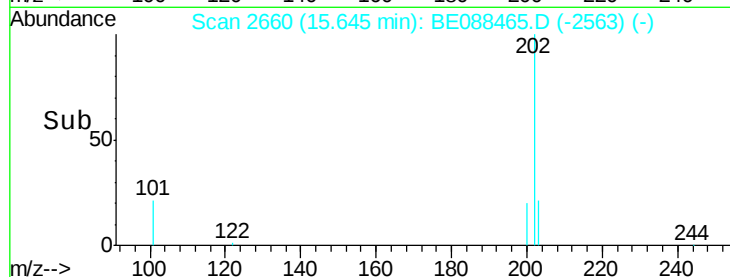
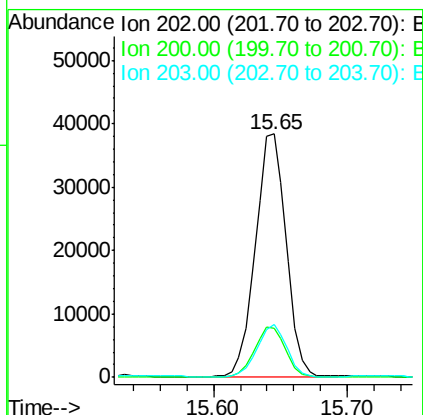
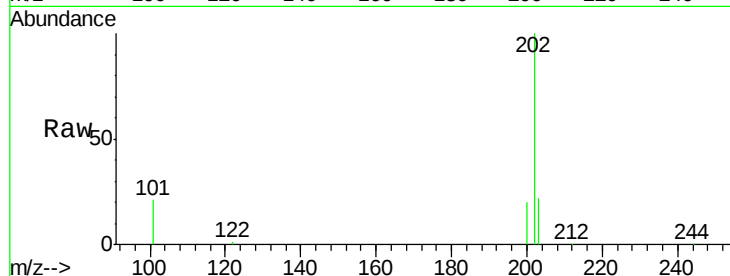




#17
 Pyrene
 Concen: 2.75 ng
 RT: 15.65 min Scan# 2660
 Delta R.T. 0.02 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

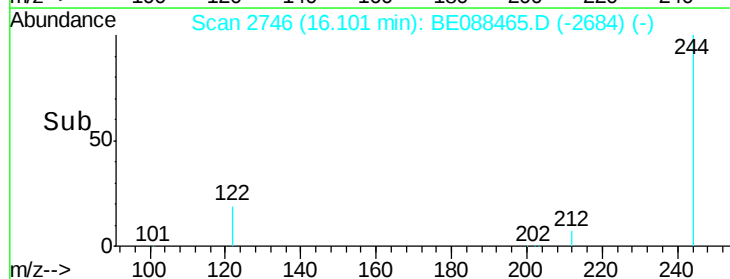
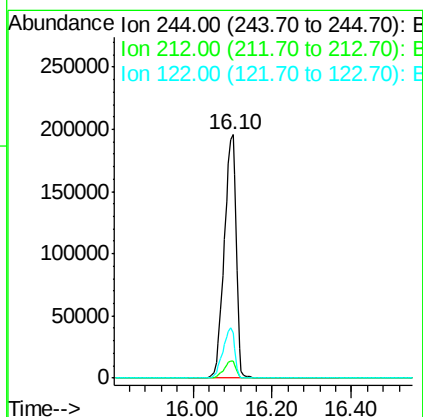
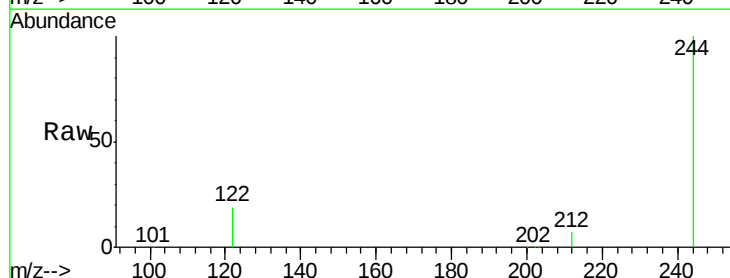
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014RE

Tgt Ion: 202 Resp: 61402
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.1 24.1
 203 20.6 13.8 20.8



#18
 Terphenyl-d14
 Concen: 32.81 ng
 RT: 16.10 min Scan# 2746
 Delta R.T. 0.03 min
 Lab File: BE088465.D
 Acq: 1 Nov 2014 23:09

Tgt Ion: 244 Resp: 412466
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 18.6 15.6 23.4





#19

Benzo(a)anthracene

Concen: 2.11 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

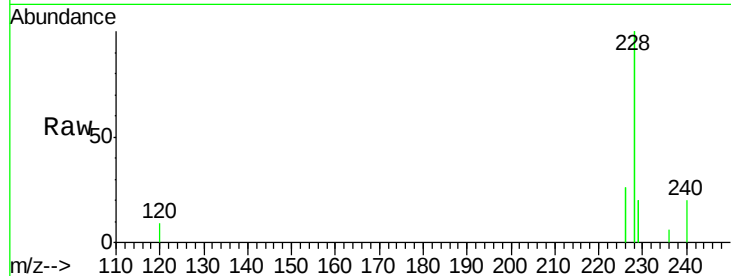
Tgt Ion:228 Resp: 135916

Ion Ratio Lower Upper

228 100

226 25.6 19.8 29.6

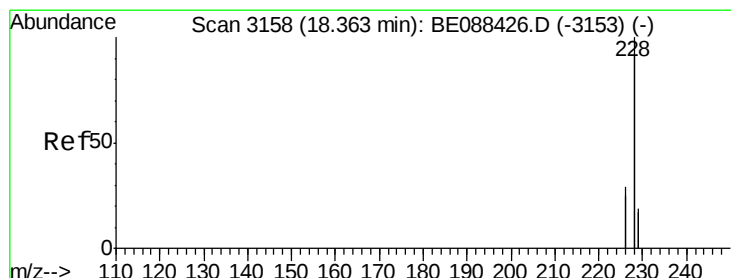
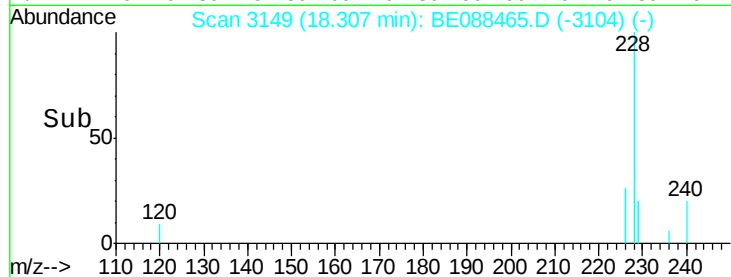
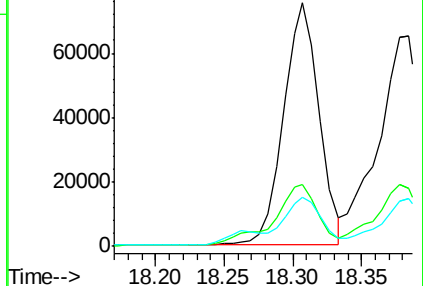
229 20.2 16.0 24.0



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: 2.26 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

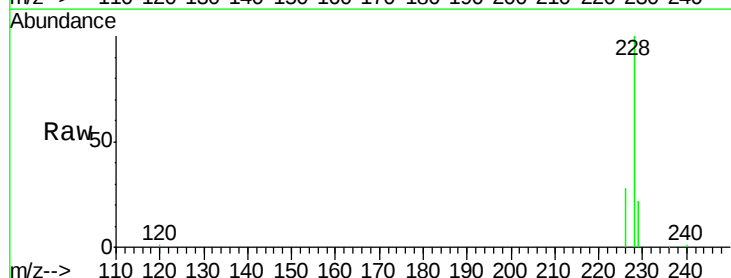
Tgt Ion:228 Resp: 142751

Ion Ratio Lower Upper

228 100

226 27.5 23.6 35.4

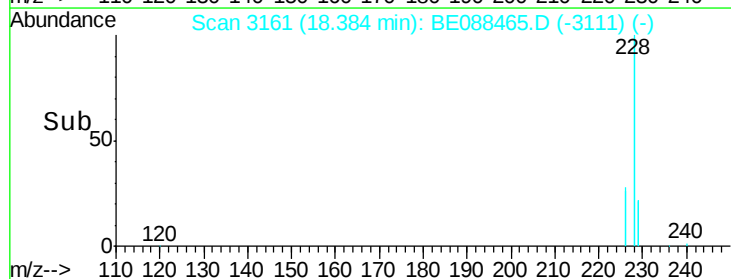
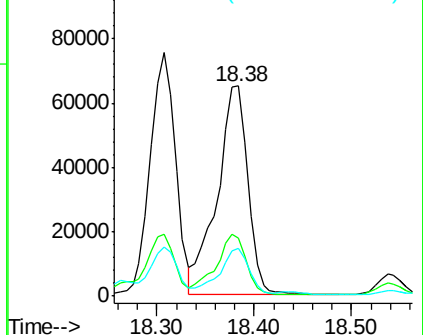
229 22.5 15.4 23.2



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: 1.53 ng

RT: 23.58 min Scan# 4155

Delta R.T. 0.04 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

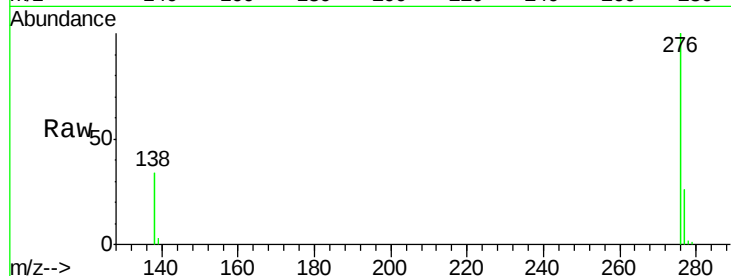
Tgt Ion: 276 Resp: 89942

Ion Ratio Lower Upper

276 100

138 32.2 20.2 30.2#

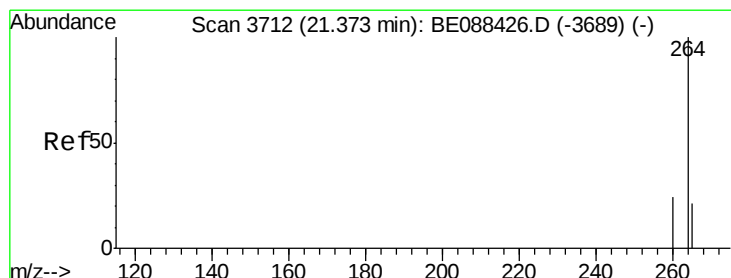
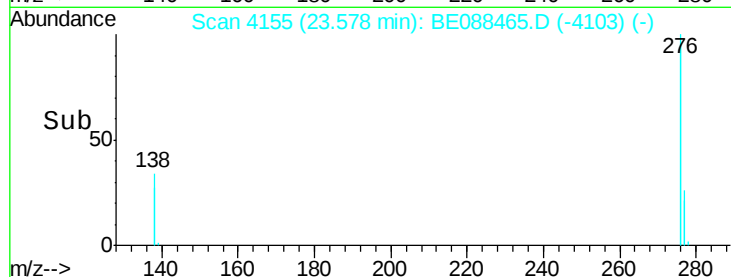
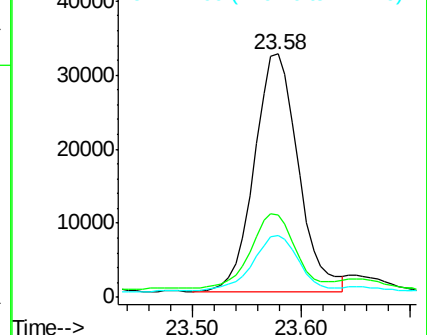
277 24.3 14.8 22.2#



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: BE088465.D

Acq: 1 Nov 2014 23:09

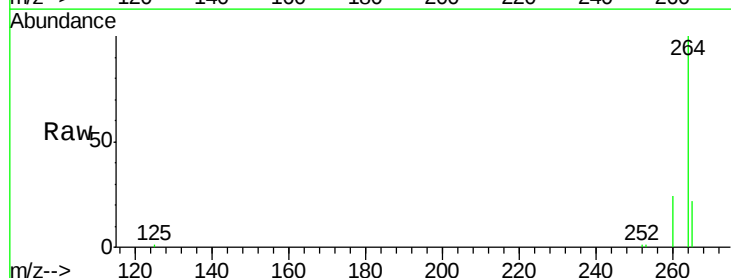
Tgt Ion: 264 Resp: 67002

Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

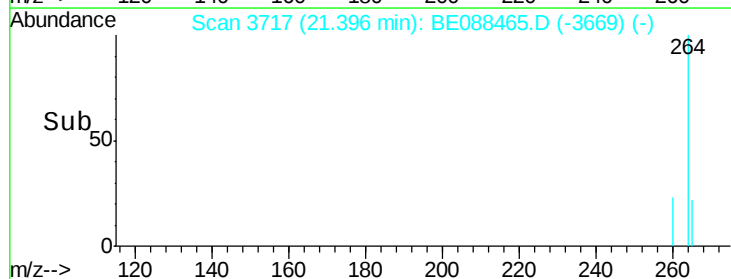
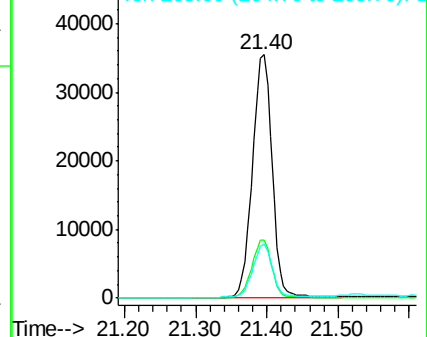
265 22.2 17.2 25.8



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: 3.44 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

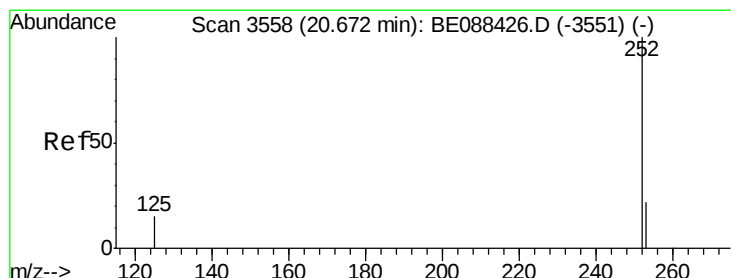
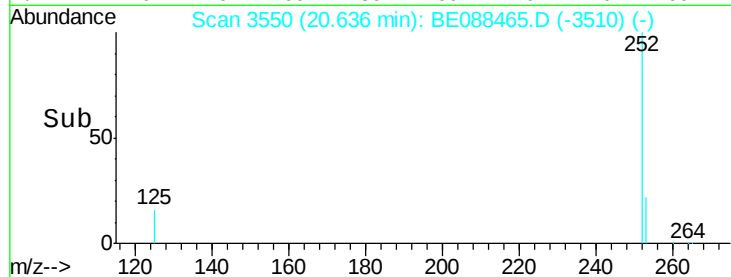
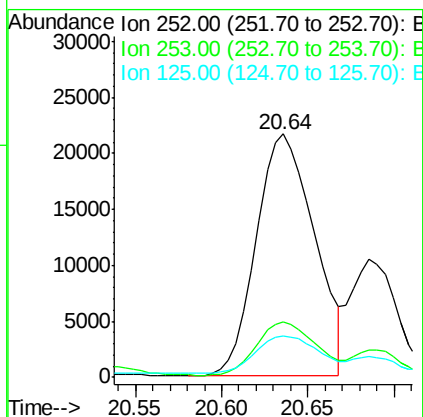
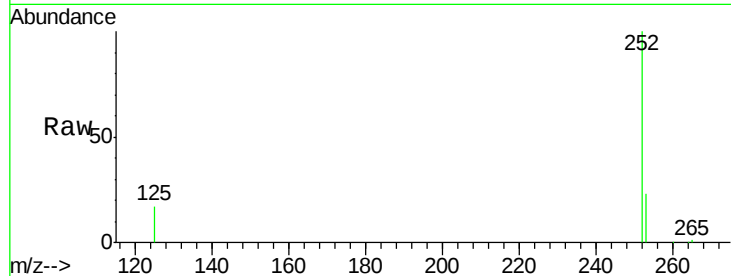
Tgt Ion:252 Resp: 50561

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 17.1 12.3 18.5



#24

Benzo(k)fluoranthene

Concen: 1.08 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

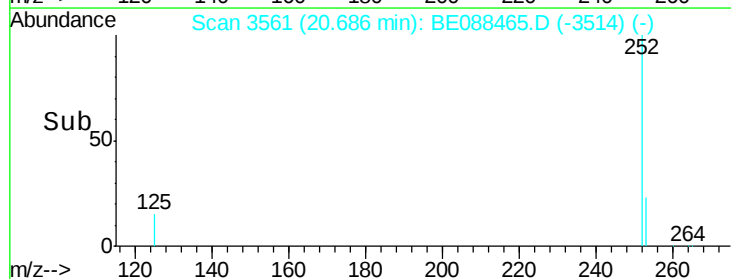
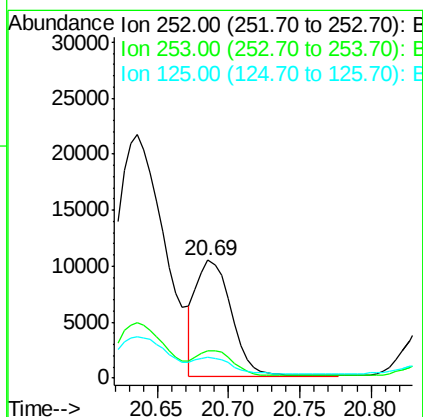
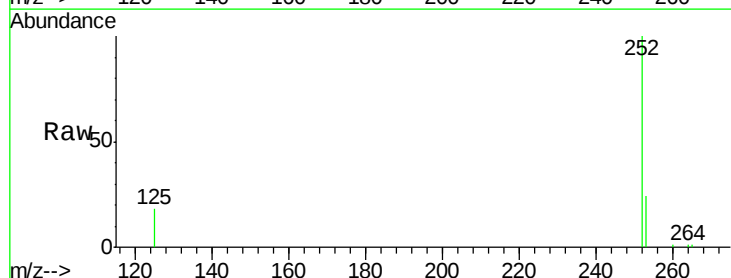
Tgt Ion:252 Resp: 17552

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.8

125 18.2 12.2 18.4





#25

Benzo(a)pyrene

Concen: 2.24 ng

RT: 21.27 min Scan# 3690

Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE

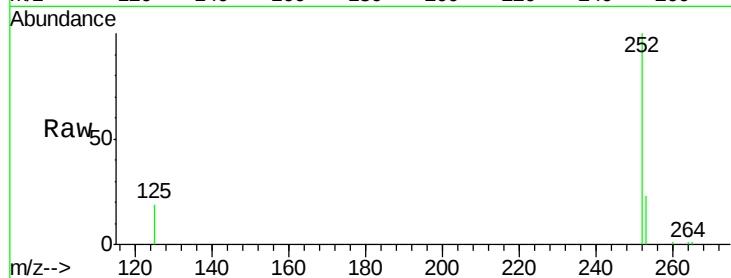
Tgt Ion: 252 Resp: 31651

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.4

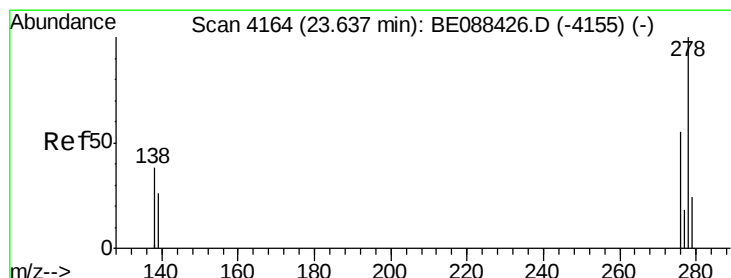
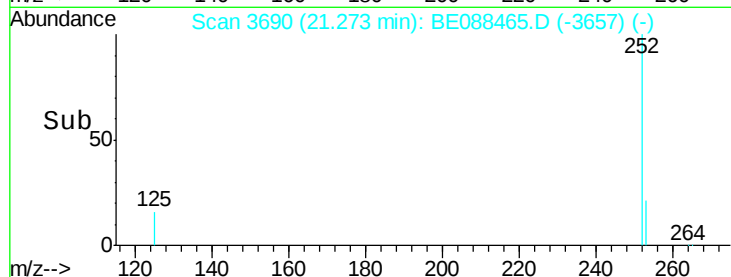
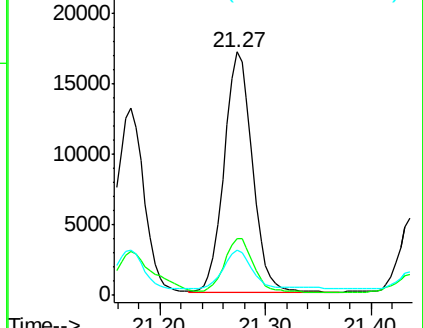
125 18.7 13.7 20.5



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: 0.39 ng

RT: 23.66 min Scan# 4167

Delta R.T. 0.02 min

Lab File: BE088465.D

Acq: 1 Nov 2014 23:09

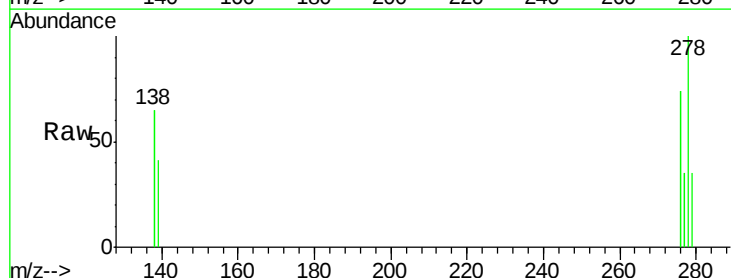
Tgt Ion: 278 Resp: 5096

Ion Ratio Lower Upper

278 100

139 41.2 22.1 33.1#

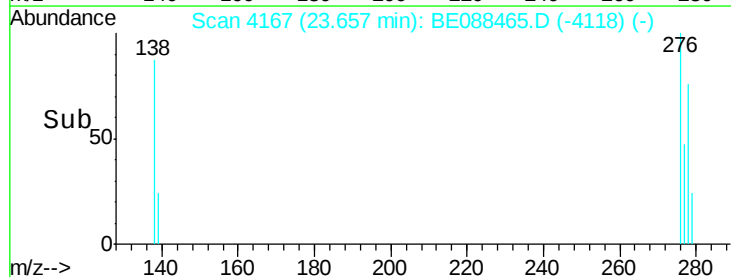
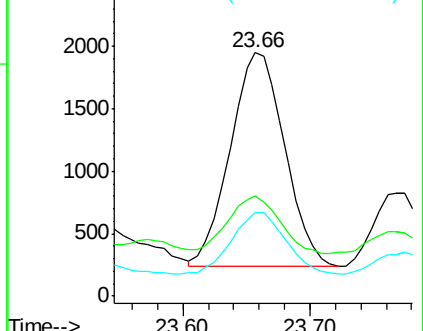
279 34.6 19.7 29.5#



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: 1.45 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.05 min

Lab File: BE088465.D

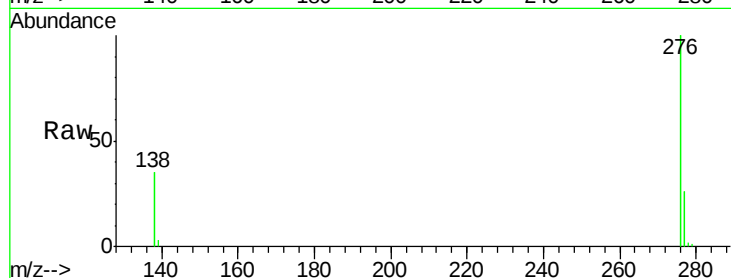
Acq: 1 Nov 2014 23:09

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014RE



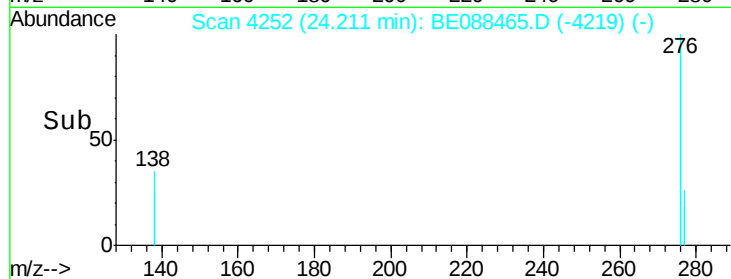
Tgt Ion: 276 Resp: 87312

Ion Ratio Lower Upper

276 100

277 25.7 19.8 29.6

138 35.4 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

