

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088458.D
 Acq On : 1 Nov 2014 19:16
 Operator : TP/JJ
 Sample : F4368-08
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014

Quant Time: Nov 02 04:19:07 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	26408	5.00	ng	0.00
3) Naphthalene-d8	8.64	136	96718	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	45544	5.00	ng	0.00
12) Phenanthrene-d10	12.89	188	93254	5.00	ng	0.00
16) Chrysene-d12	18.31	240	52373	5.00	ng	0.00
22) Perylene-d12	21.38	264	50153	5.00	ng	0.01

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	474826	66.94	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	578792	45.09	ng	0.00
18) Terphenyl-d14	16.09	244	439798	45.71	ng	0.01

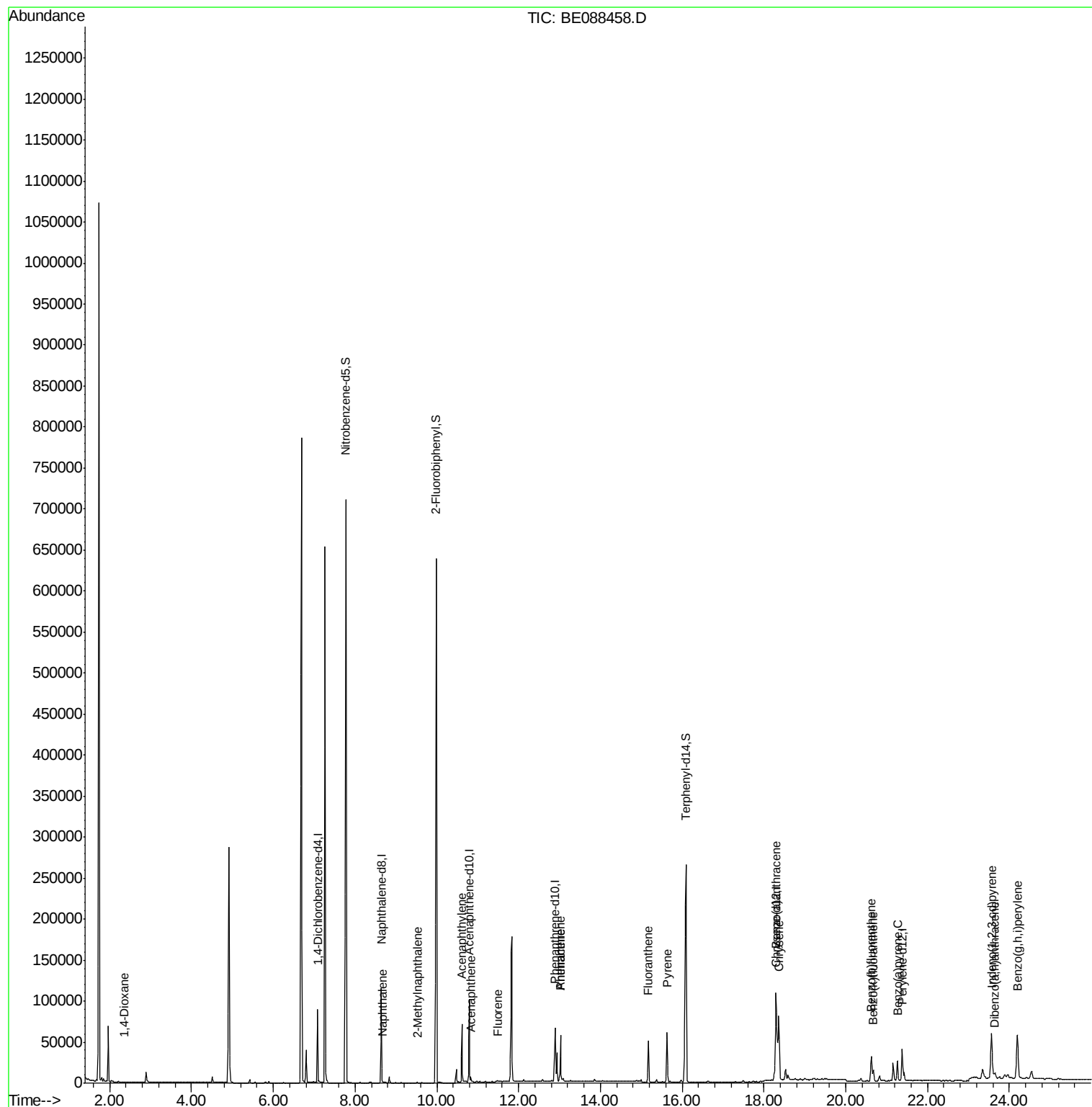
Target Compounds						Qvalue
2) 1,4-Dioxane	2.35	88	104	0.03	ng	# 63
5) Naphthalene	8.66	128	823	0.04	ng	# 80
6) 2-Methylnaphthalene	9.52	142	463	0.04	ng	# 87
9) Acenaphthylene	10.62	152	67341	0.91	ng	97
10) Acenaphthene	10.83	154	1203	0.11	ng	# 75
11) Fluorene	11.48	166	1528	0.13	ng	# 88
13) Phenanthrene	13.02	178	63659	0.75	ng	98
14) Anthracene	13.02	178	63659	0.93	ng	98
15) Fluoranthene	15.17	202	49581	3.60	ng	100
17) Pyrene	15.63	202	60200	3.52	ng	98
19) Benzo(a)anthracene	18.29	228	119589	2.43	ng	96
20) Chrysene	18.36	228	128945	2.66	ng	96
21) Indeno(1,2,3-cd)pyrene	23.56	276	103151	2.29	ng	# 90
23) Benzo(b)fluoranthene	20.62	252	54064	4.92	ng	# 95
24) Benzo(k)fluoranthene	20.67	252	17587	1.45	ng	# 89
25) Benzo(a)pyrene	21.26	252	33397	3.16	ng	94
26) Dibenzo(a,h)anthracene	23.65	278	5080	0.52	ng	# 59
27) Benzo(g,h,i)perylene	24.20	276	101656	2.26	ng	98

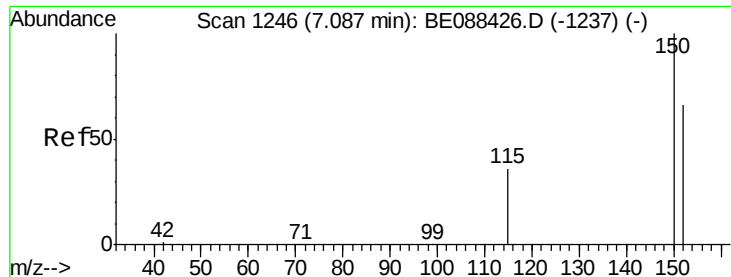
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

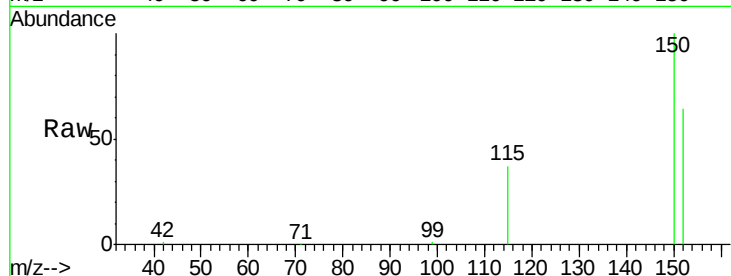
Tgt Ion:152 Resp: 26408

Ion Ratio Lower Upper

152 100

150 156.9 121.8 182.8

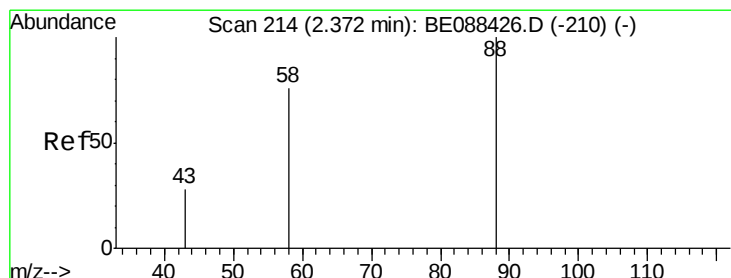
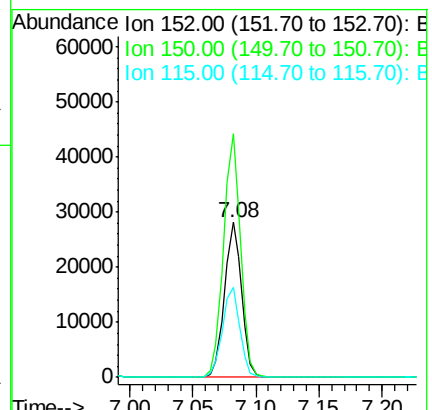
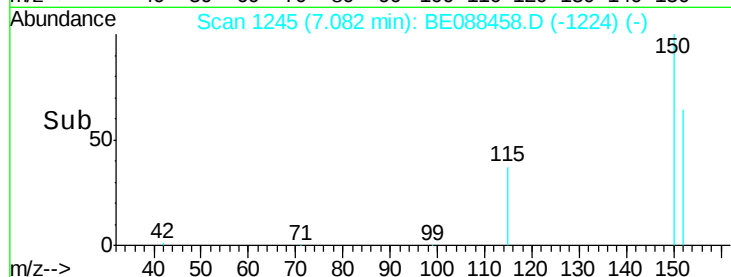
115 58.4 43.9 65.9



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: 0.03 ng

RT: 2.35 min Scan# 210

Delta R.T. -0.02 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

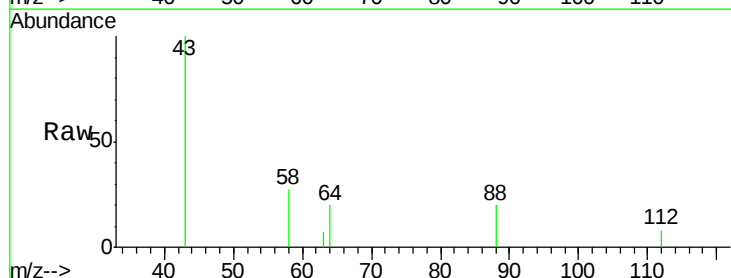
Tgt Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

58 100.0 59.1 88.7#

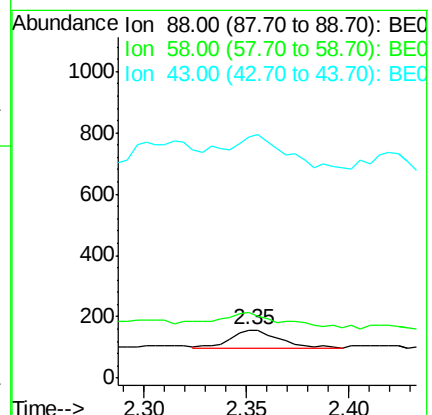
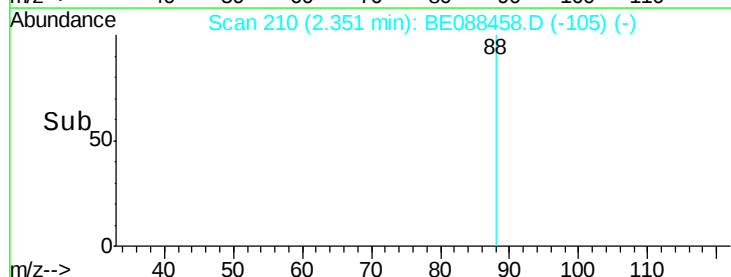
43 0.0 21.9 32.9#

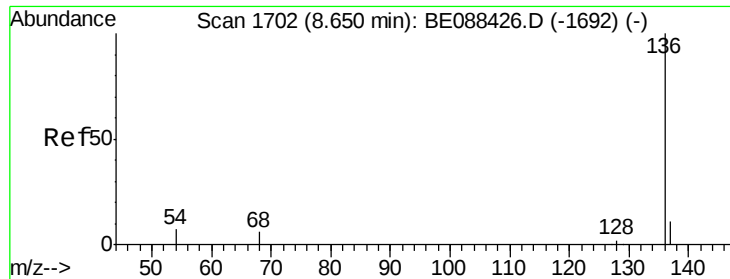


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.64 min Scan# 1701

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

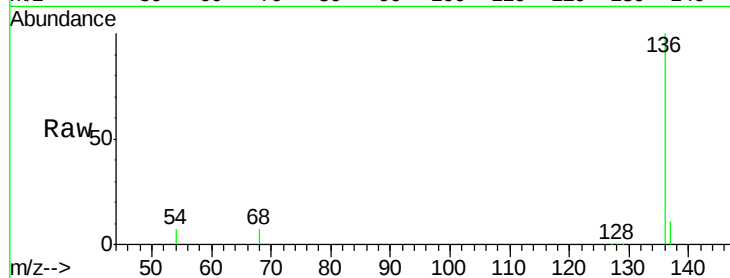
Tgt Ion:136 Resp: 96718

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

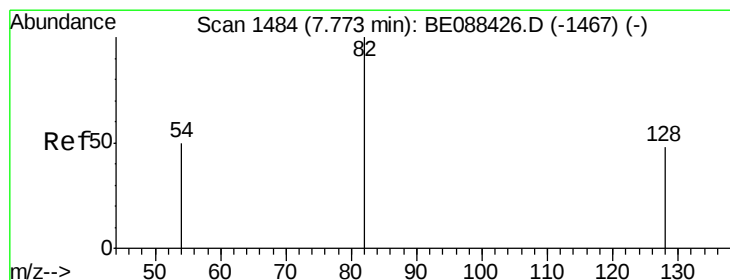
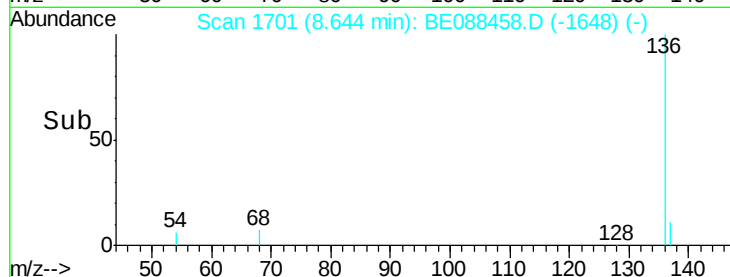
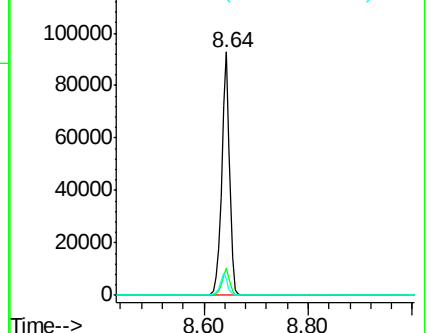
54 6.9 5.3 7.9



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: 66.94 ng

RT: 7.78 min Scan# 1487

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

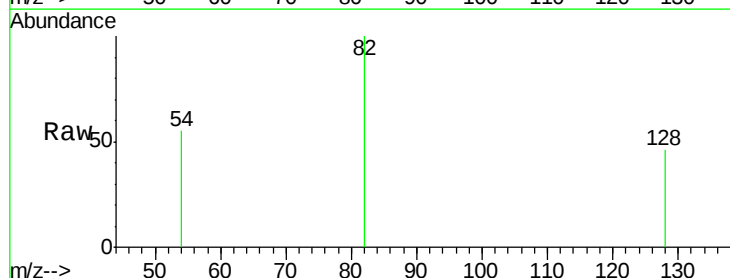
Tgt Ion: 82 Resp: 474826

Ion Ratio Lower Upper

82 100

128 46.1 38.4 57.6

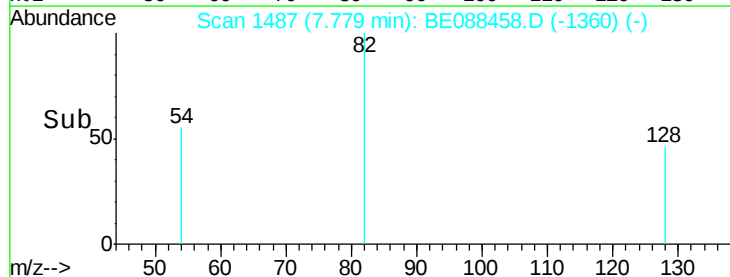
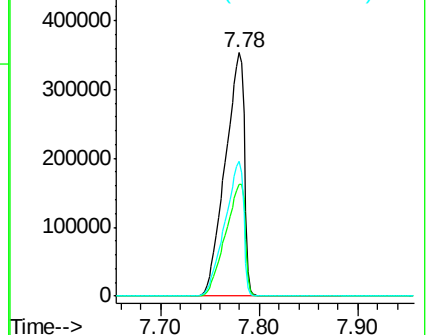
54 55.2 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.04 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

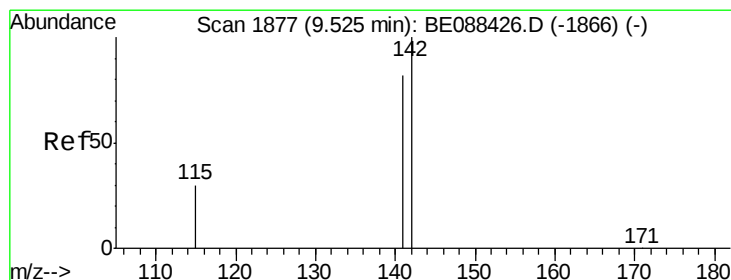
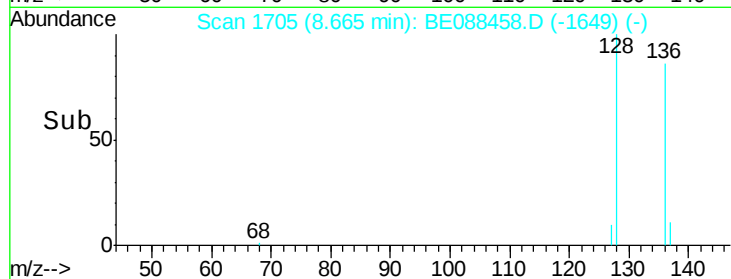
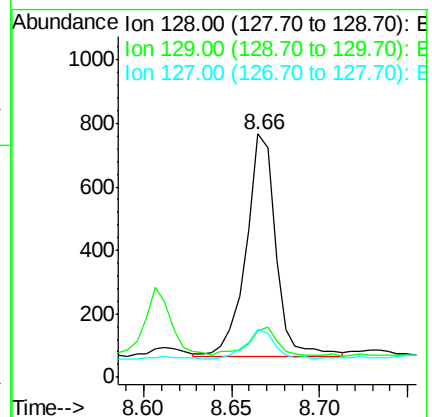
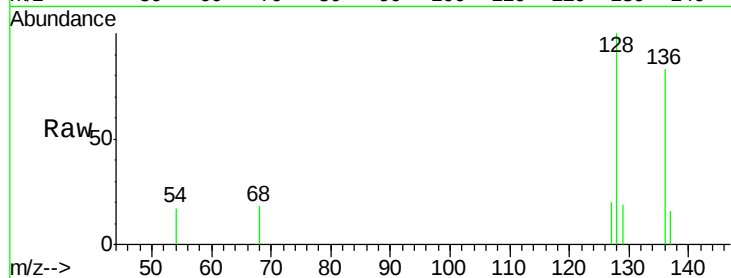
Tgt Ion:128 Resp: 823

Ion Ratio Lower Upper

128 100

129 19.2 8.6 12.8#

127 19.8 10.1 15.1#



#6

2-Methylnaphthalene

Concen: 0.04 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

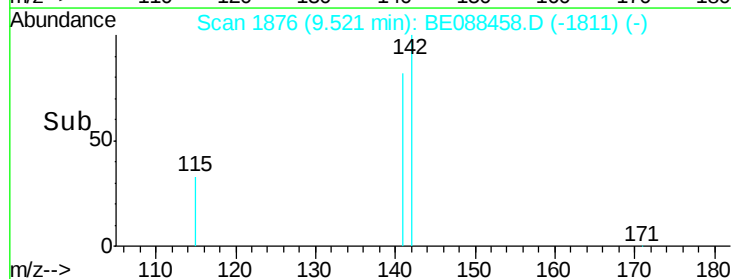
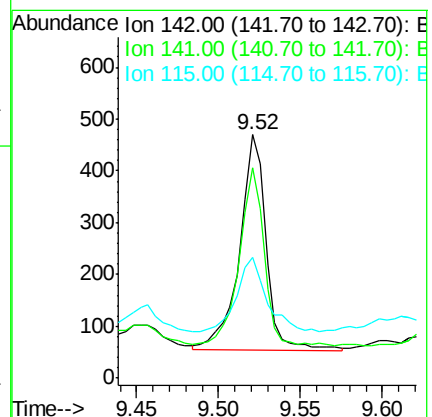
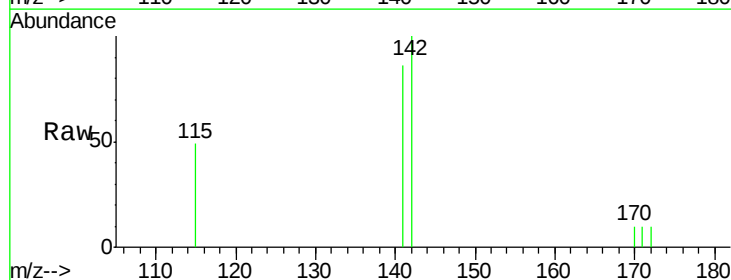
Tgt Ion:142 Resp: 463

Ion Ratio Lower Upper

142 100

141 86.4 65.8 98.8

115 49.4 24.2 36.4#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

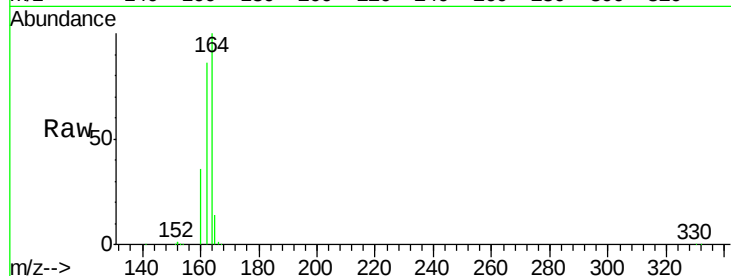
Tgt Ion:164 Resp: 45544

Ion Ratio Lower Upper

164 100

162 85.6 77.0 115.4

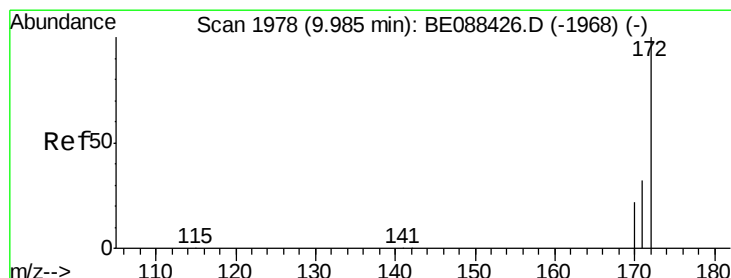
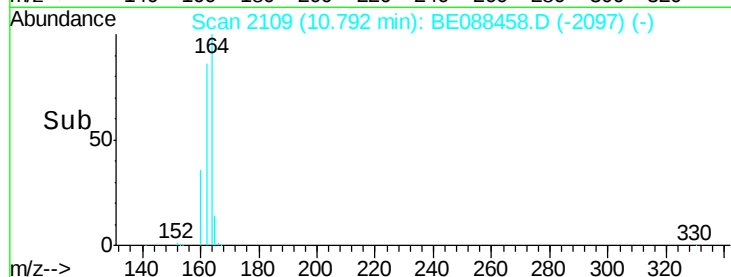
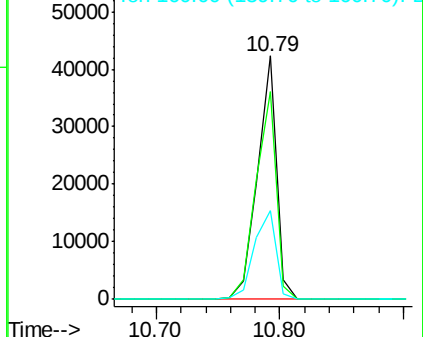
160 36.4 36.8 55.2#



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: 45.09 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

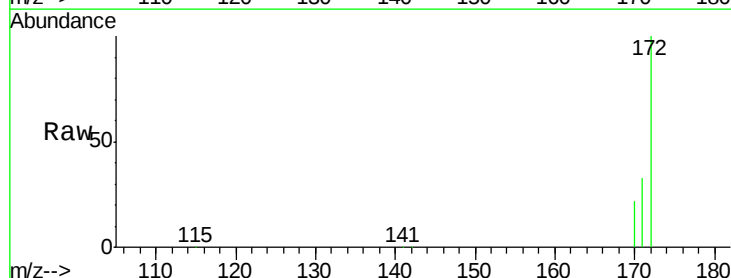
Tgt Ion:172 Resp: 578792

Ion Ratio Lower Upper

172 100

171 32.7 26.0 39.0

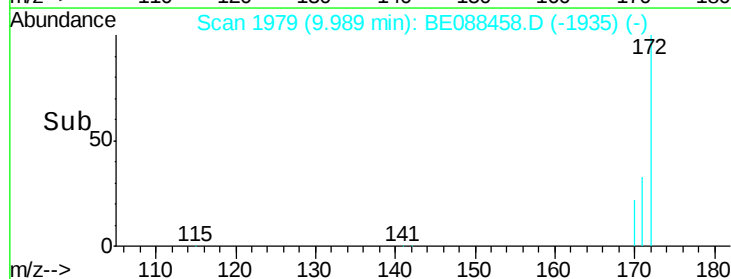
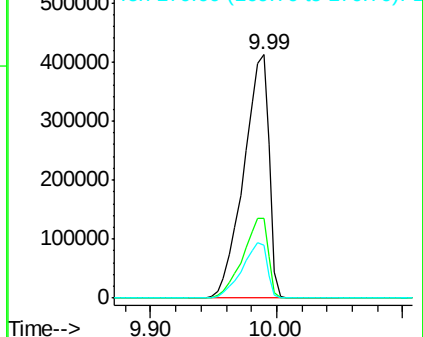
170 21.7 17.6 26.4



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: 0.91 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

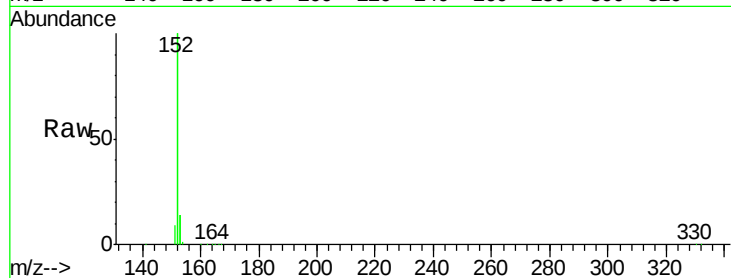
Tgt Ion:152 Resp: 67341

Ion Ratio Lower Upper

152 100

151 4.8 4.4 6.6

153 14.4 10.5 15.7



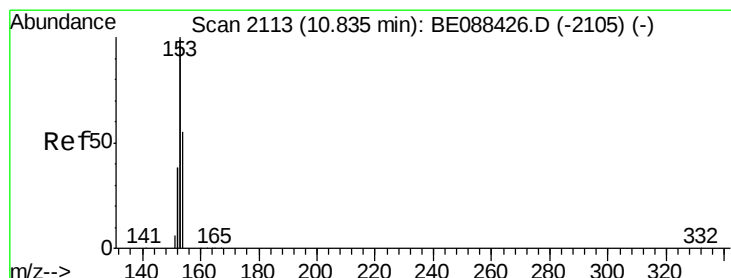
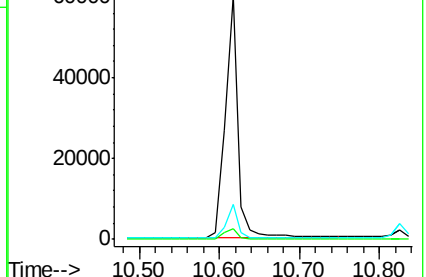
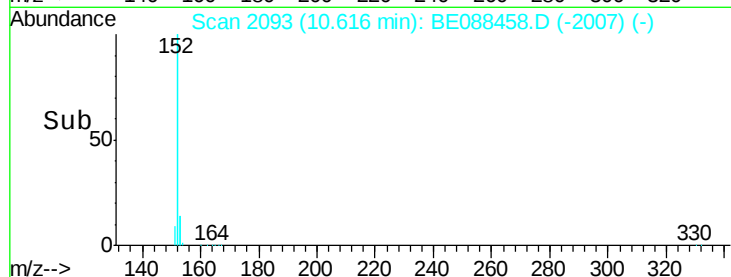
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

10.62

Time-->



#10

Acenaphthene

Concen: 0.11 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

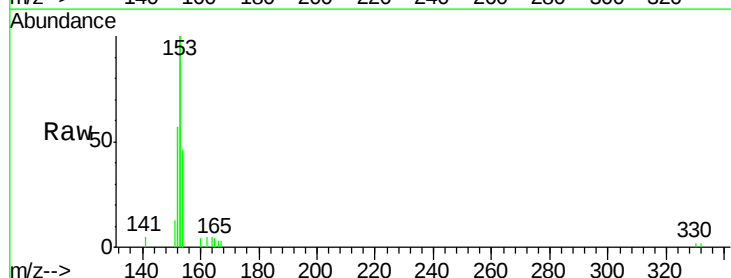
Tgt Ion:154 Resp: 1203

Ion Ratio Lower Upper

154 100

153 321.9 324.3 486.5#

152 185.0 154.9 232.3



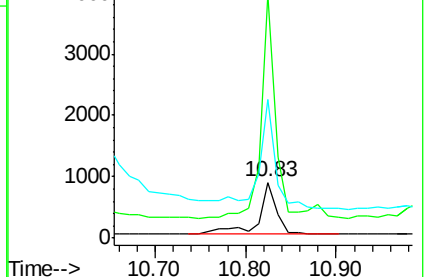
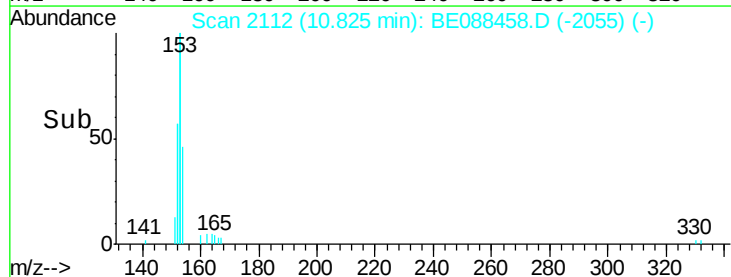
Abundance Ion 154.00 (153.70 to 154.70): E

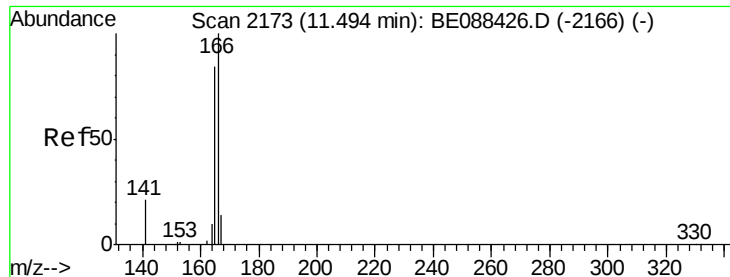
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

10.83

Time-->

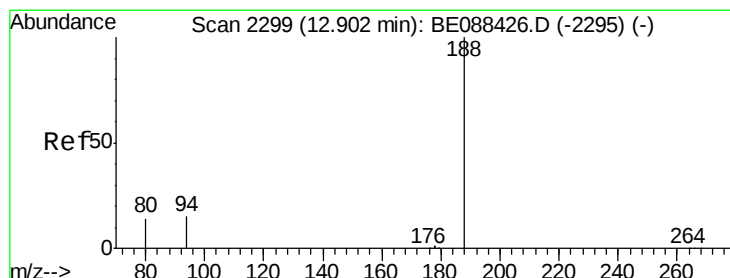
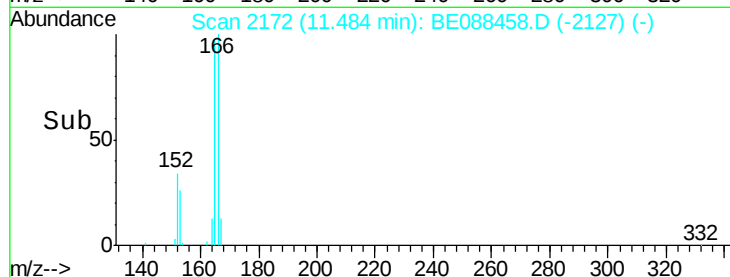
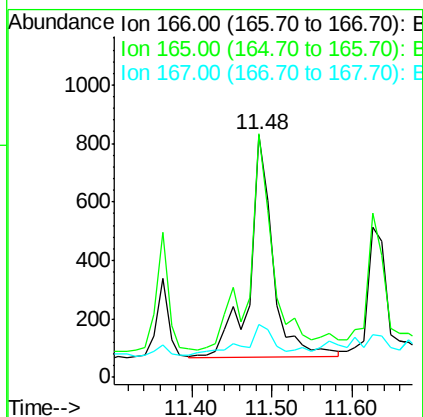
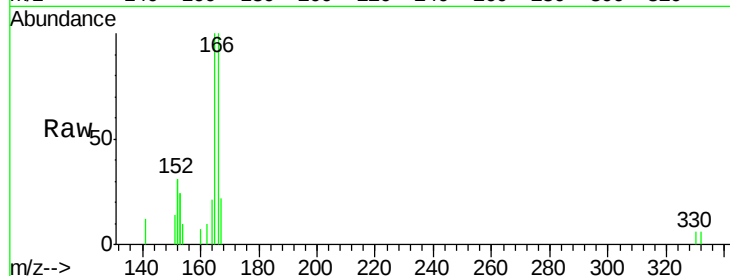




#11
Fluorene
Concen: 0.13 ng
RT: 11.48 min Scan# 2172
Delta R.T. -0.01 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

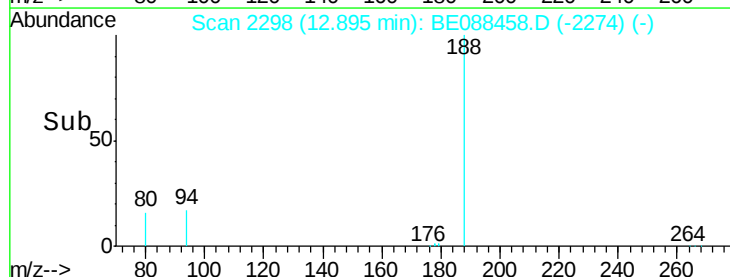
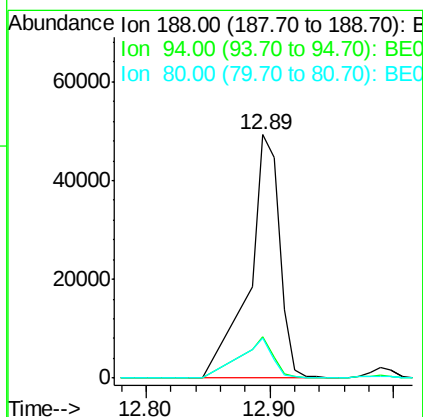
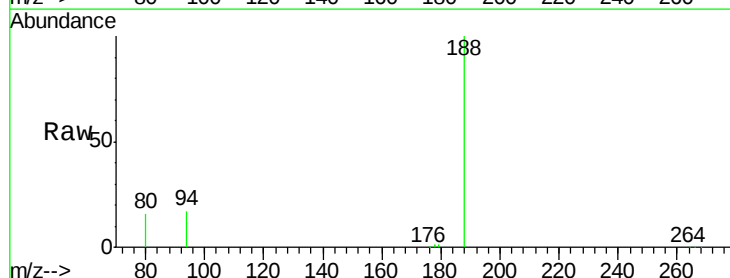
Instrument :
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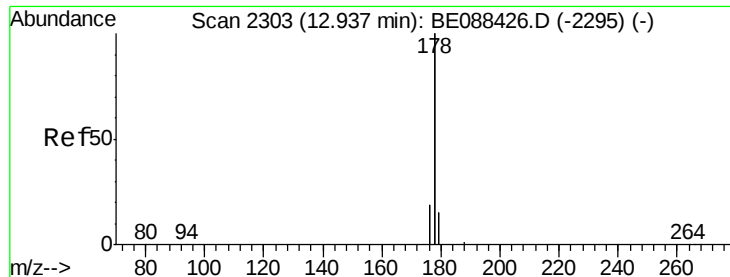
Tgt Ion:166 Resp: 1528
Ion Ratio Lower Upper
166 100
165 100.7 71.3 106.9
167 16.9 10.7 16.1#



#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.89 min Scan# 2298
Delta R.T. -0.01 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

Tgt Ion:188 Resp: 93254
Ion Ratio Lower Upper
188 100
94 17.2 11.8 17.8
80 16.2 10.9 16.3





#13

Phenanthrene

Concen: 0.75 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.09 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

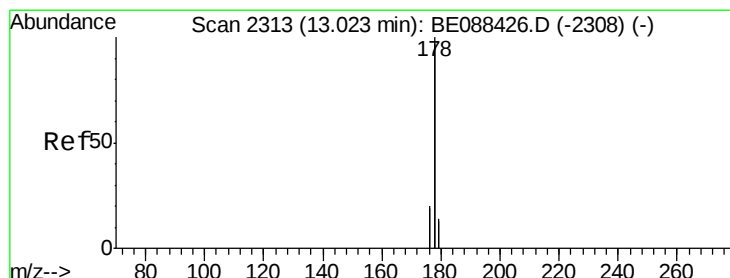
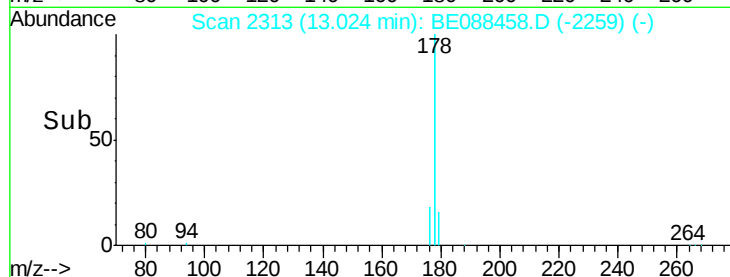
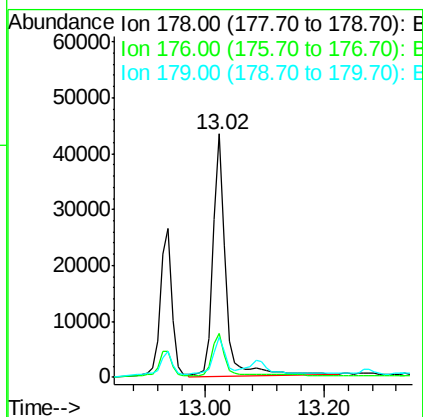
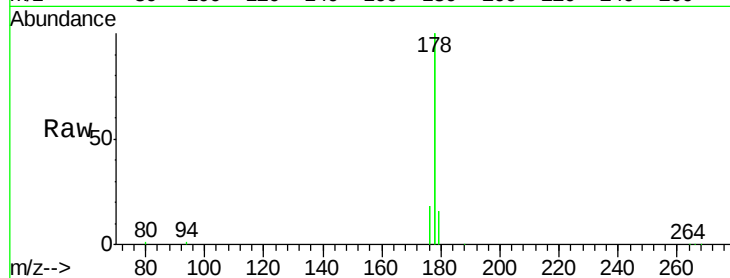
Tgt Ion:178 Resp: 63659

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.2

179 16.3 12.8 19.2



#14

Anthracene

Concen: 0.93 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

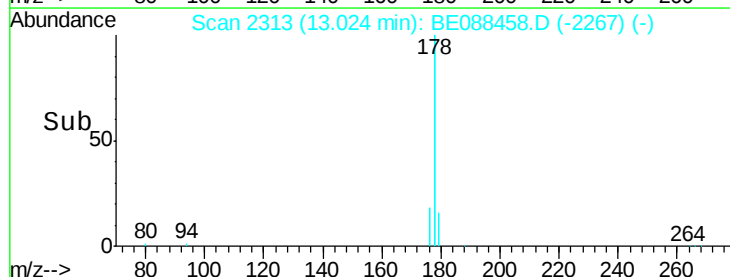
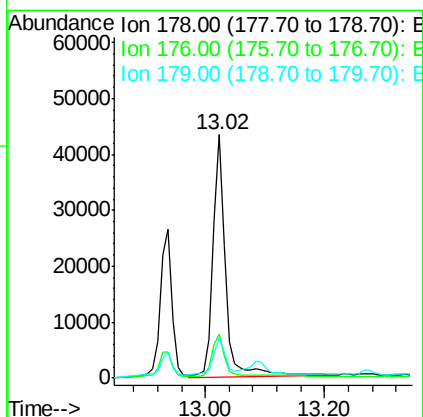
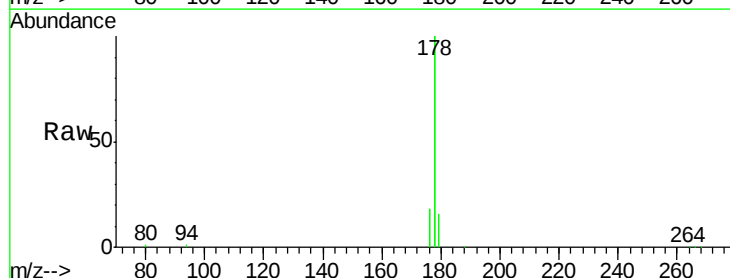
Tgt Ion:178 Resp: 63659

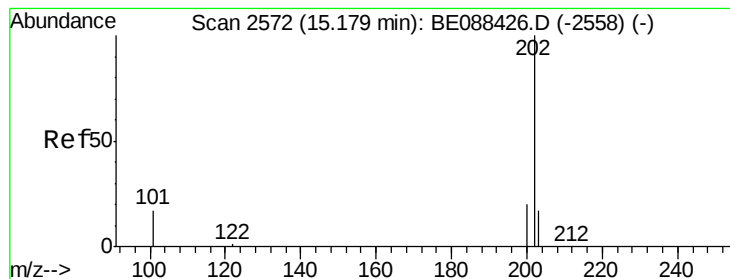
Ion Ratio Lower Upper

178 100

176 17.8 15.0 22.4

179 16.3 12.5 18.7





#15

Fluoranthene

Concen: 3.60 ng

RT: 15.17 min Scan# 2571

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

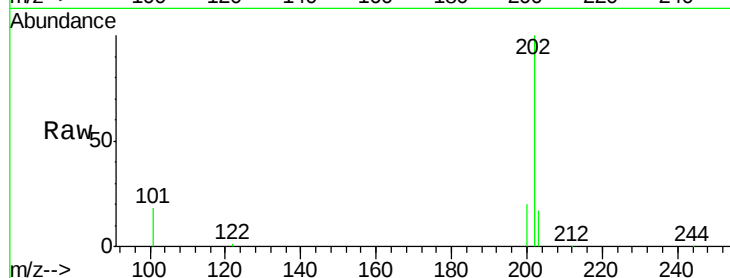
Tgt Ion:202 Resp: 49581

Ion Ratio Lower Upper

202 100

101 17.7 14.3 21.5

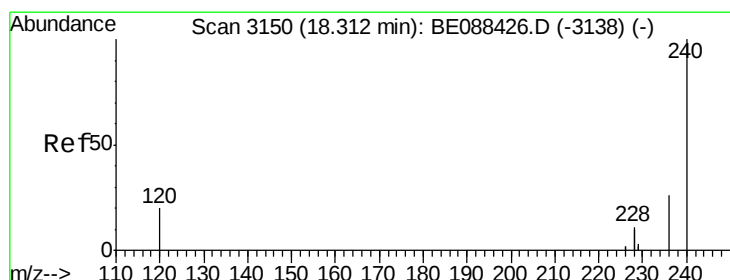
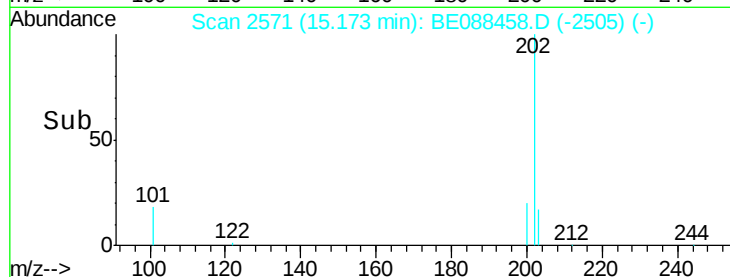
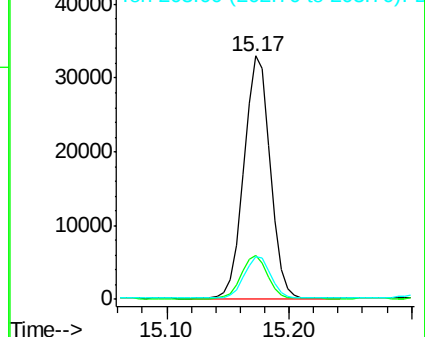
203 17.1 13.6 20.4



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: 18.31 min Scan# 3150

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

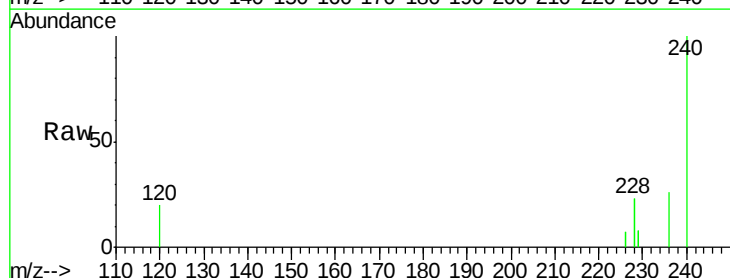
Tgt Ion:240 Resp: 52373

Ion Ratio Lower Upper

240 100

120 19.7 16.4 24.6

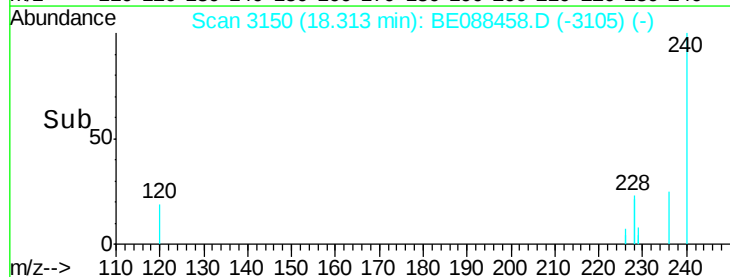
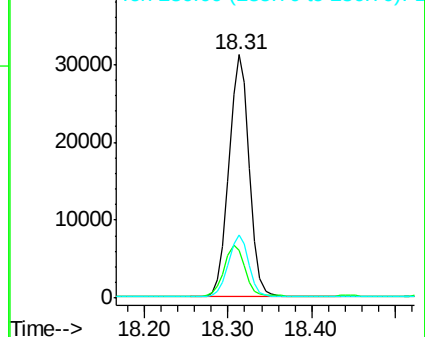
236 25.8 20.5 30.7

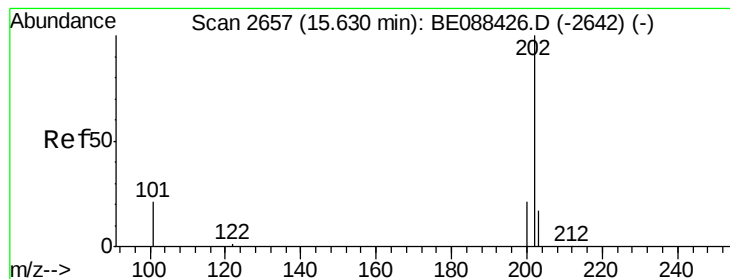


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 3.52 ng

RT: 15.63 min Scan# 2657

Delta R.T. -0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

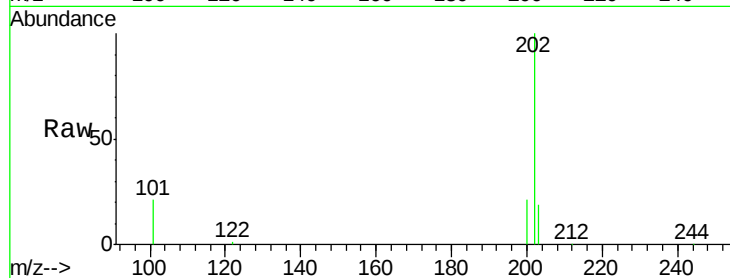
Tgt Ion:202 Resp: 60200

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

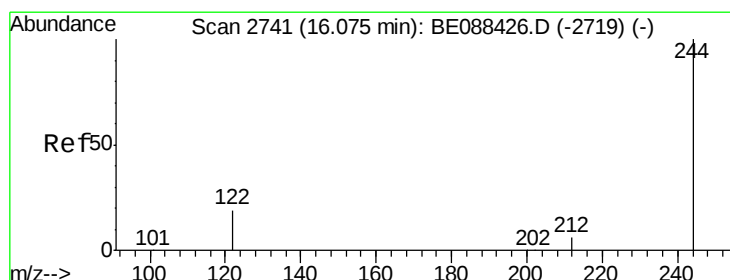
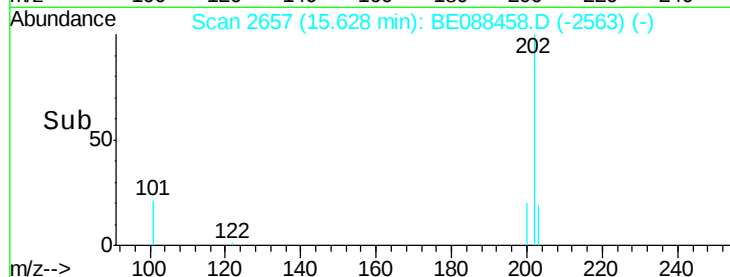
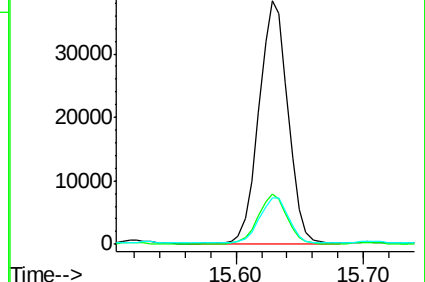
203 18.8 13.8 20.8



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: 45.71 ng

RT: 16.09 min Scan# 2744

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

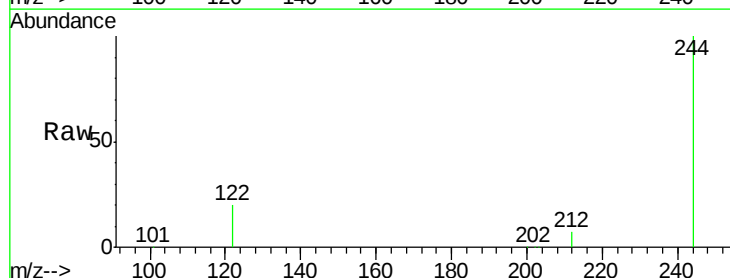
Tgt Ion:244 Resp: 439798

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

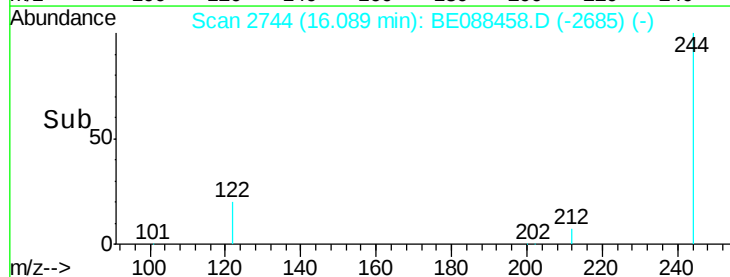
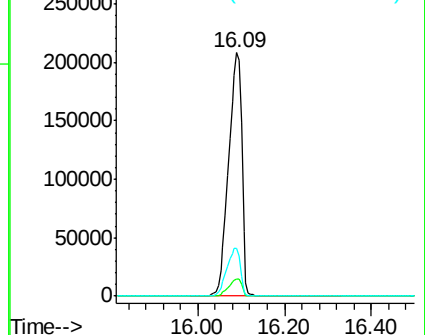
122 19.8 15.6 23.4



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: 2.43 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

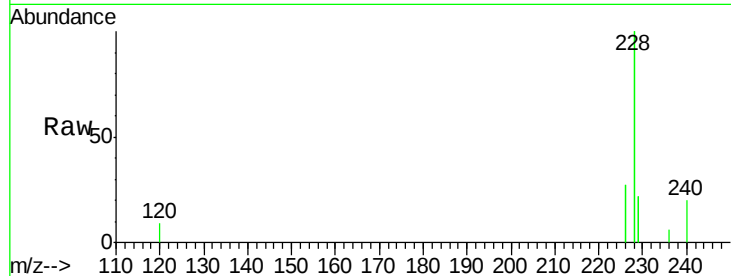
Tgt Ion:228 Resp: 119589

Ion Ratio Lower Upper

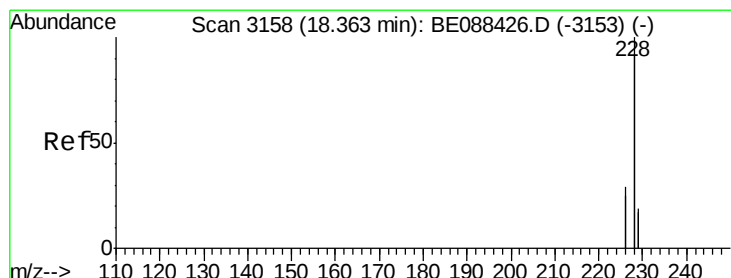
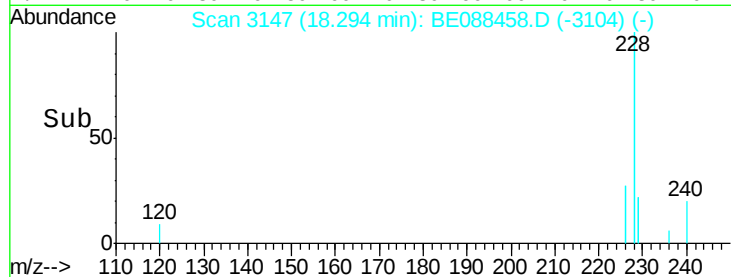
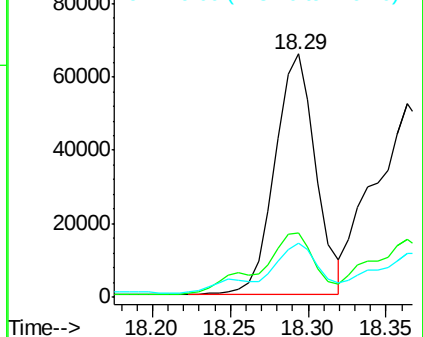
228 100

226 26.7 19.8 29.6

229 22.1 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: 2.66 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

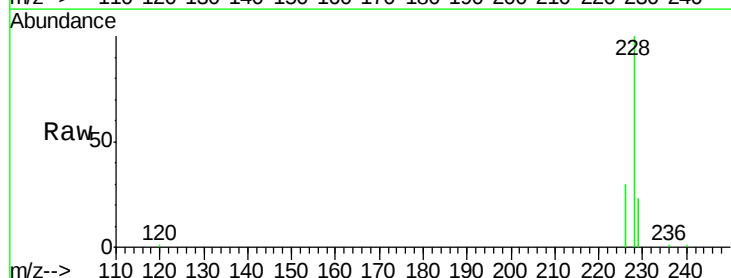
Tgt Ion:228 Resp: 128945

Ion Ratio Lower Upper

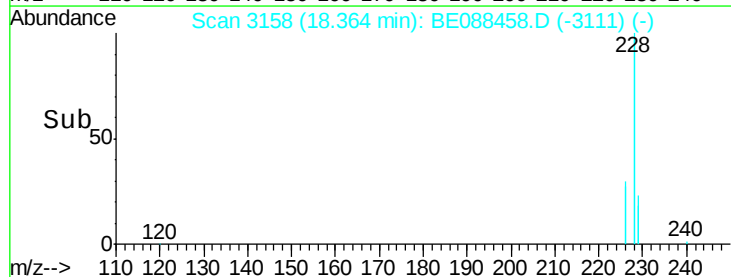
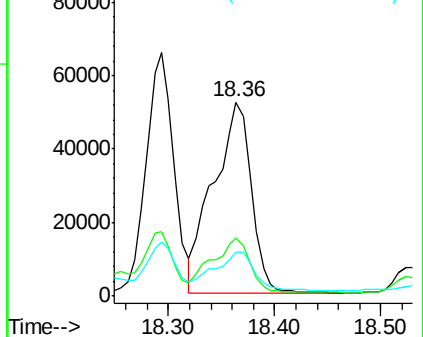
228 100

226 30.2 23.6 35.4

229 22.8 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: 2.29 ng

RT: 23.56 min Scan# 4153

Delta R.T. 0.03 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

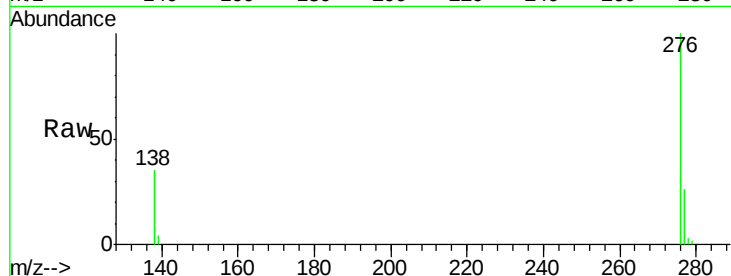
Tgt Ion:276 Resp: 103151

Ion Ratio Lower Upper

276 100

138 29.8 20.2 30.2

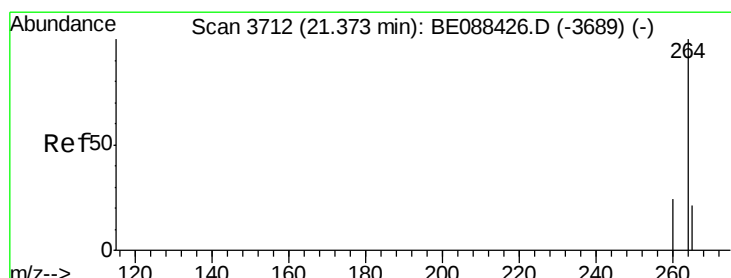
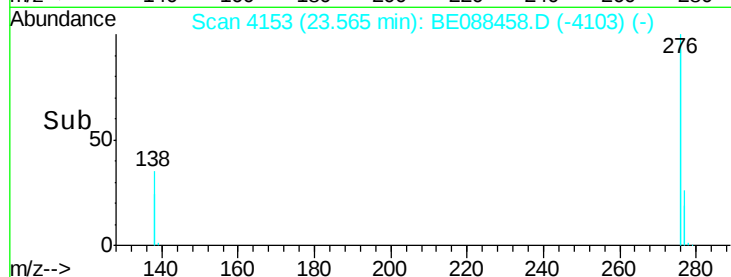
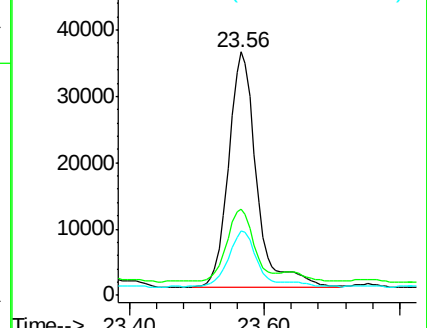
277 23.0 14.8 22.2#



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: 21.38 min Scan# 3714

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

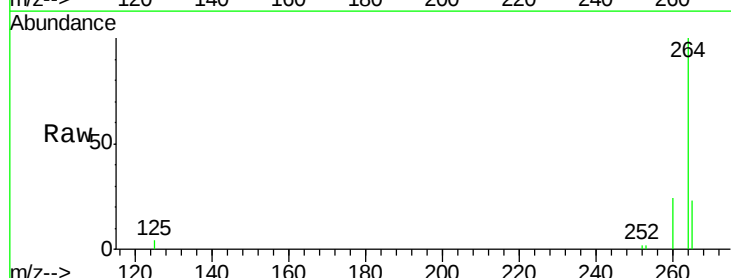
Tgt Ion:264 Resp: 50153

Ion Ratio Lower Upper

264 100

260 24.0 18.9 28.3

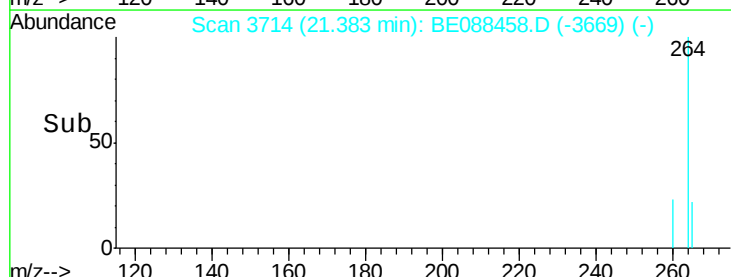
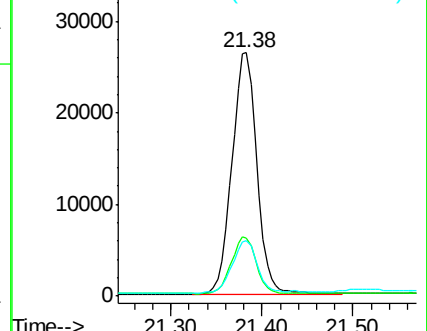
265 23.0 17.2 25.8

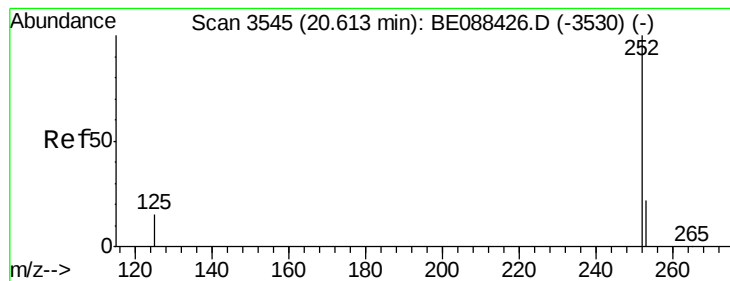


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 4.92 ng

RT: 20.62 min Scan# 3547

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

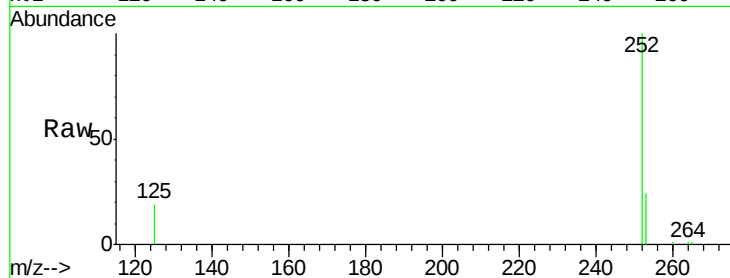
Tgt Ion: 252 Resp: 54064

Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.8

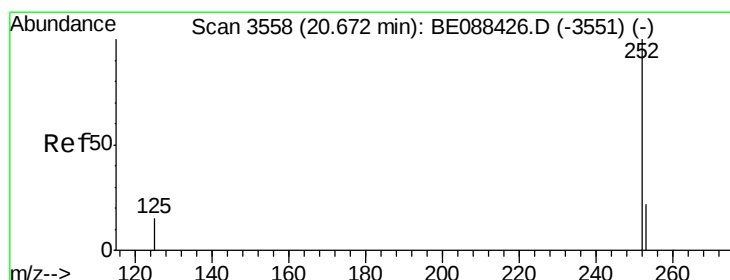
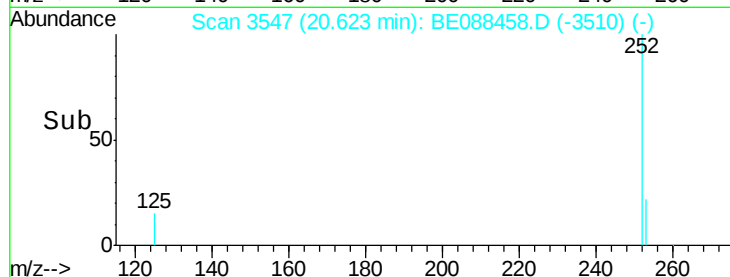
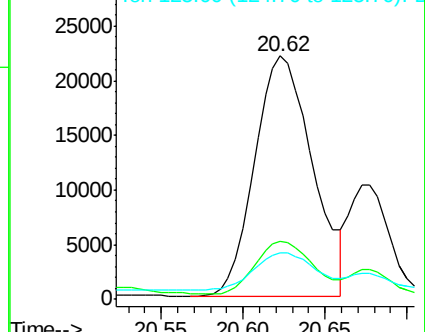
125 19.1 12.3 18.5#



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



#24

Benzo(k)fluoranthene

Concen: 1.45 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

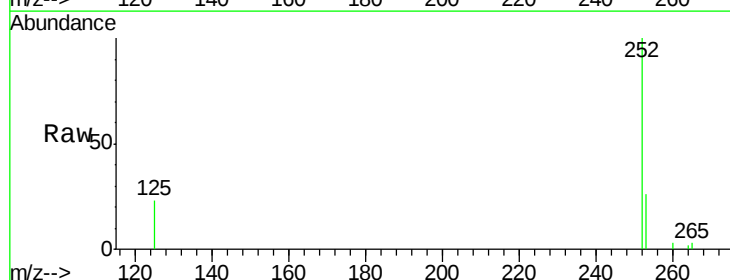
Tgt Ion: 252 Resp: 17587

Ion Ratio Lower Upper

252 100

253 25.5 17.8 26.8

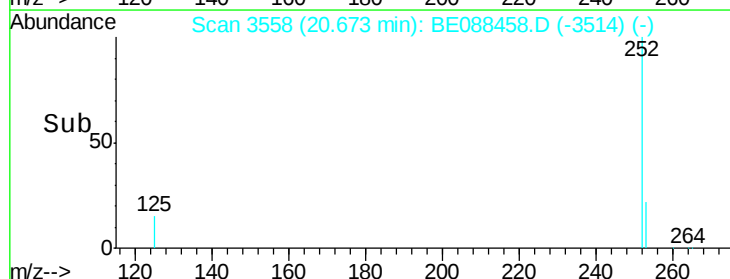
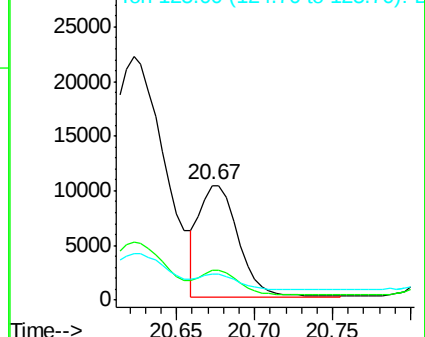
125 22.9 12.2 18.4#



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: 3.16 ng

RT: 21.26 min Scan# 3688

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014

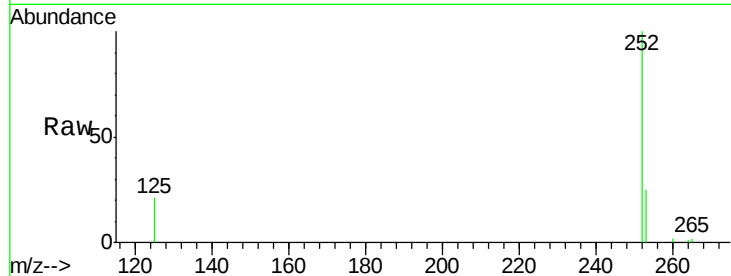
Tgt Ion: 252 Resp: 33397

Ion Ratio Lower Upper

252 100

253 25.3 18.2 27.4

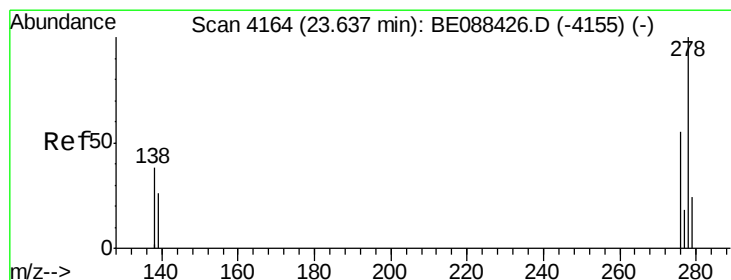
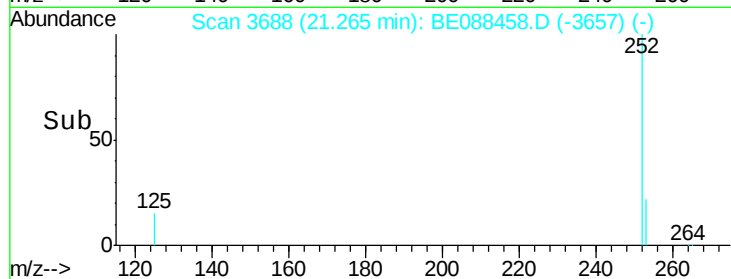
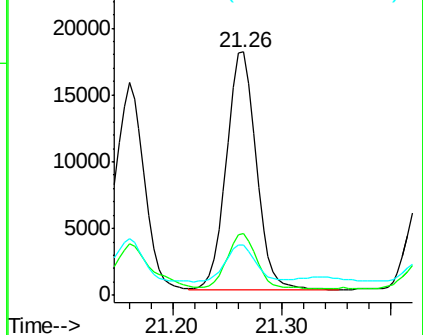
125 20.5 13.7 20.5



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: 0.52 ng

RT: 23.65 min Scan# 4166

Delta R.T. 0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

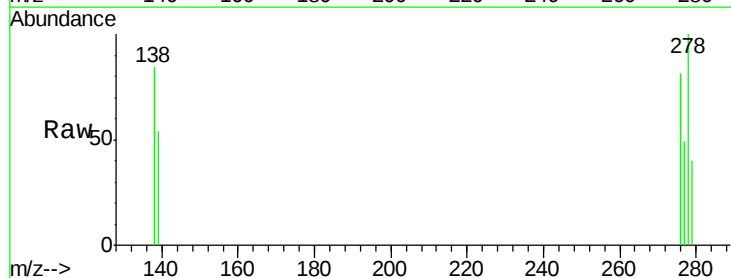
Tgt Ion: 278 Resp: 5080

Ion Ratio Lower Upper

278 100

139 54.1 22.1 33.1#

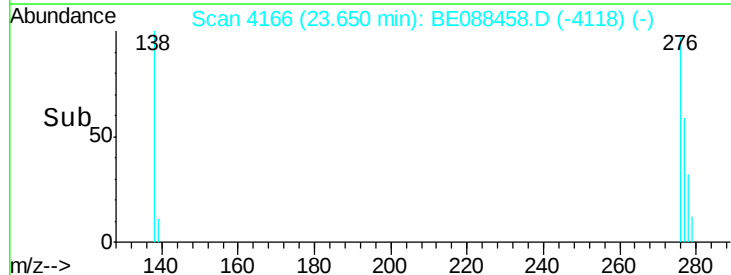
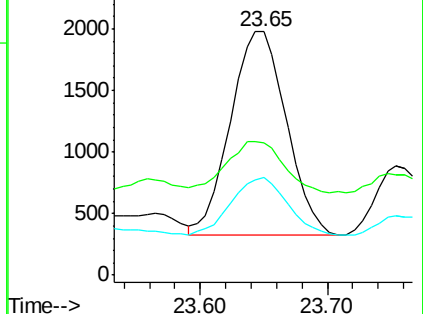
279 39.9 19.7 29.5#



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: 2.26 ng

RT: 24.20 min Scan# 4250

Delta R.T. 0.03 min

Lab File: BE088458.D

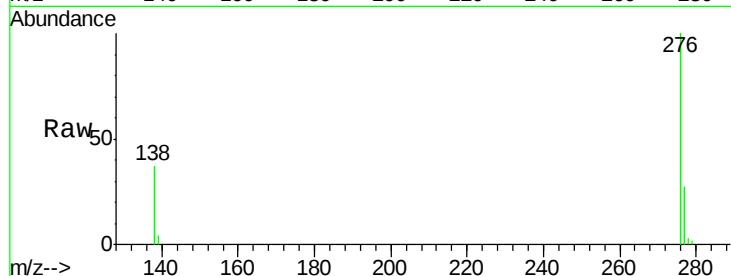
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014



Tgt Ion: 276 Resp: 101656

Ion Ratio Lower Upper

276 100

277 26.6 19.8 29.6

138 37.4 29.3 43.9

