

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088456.D
 Acq On : 1 Nov 2014 18:07
 Operator : TP/JJ
 Sample : F4379-17
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

Quant Time: Nov 02 04:18:17 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

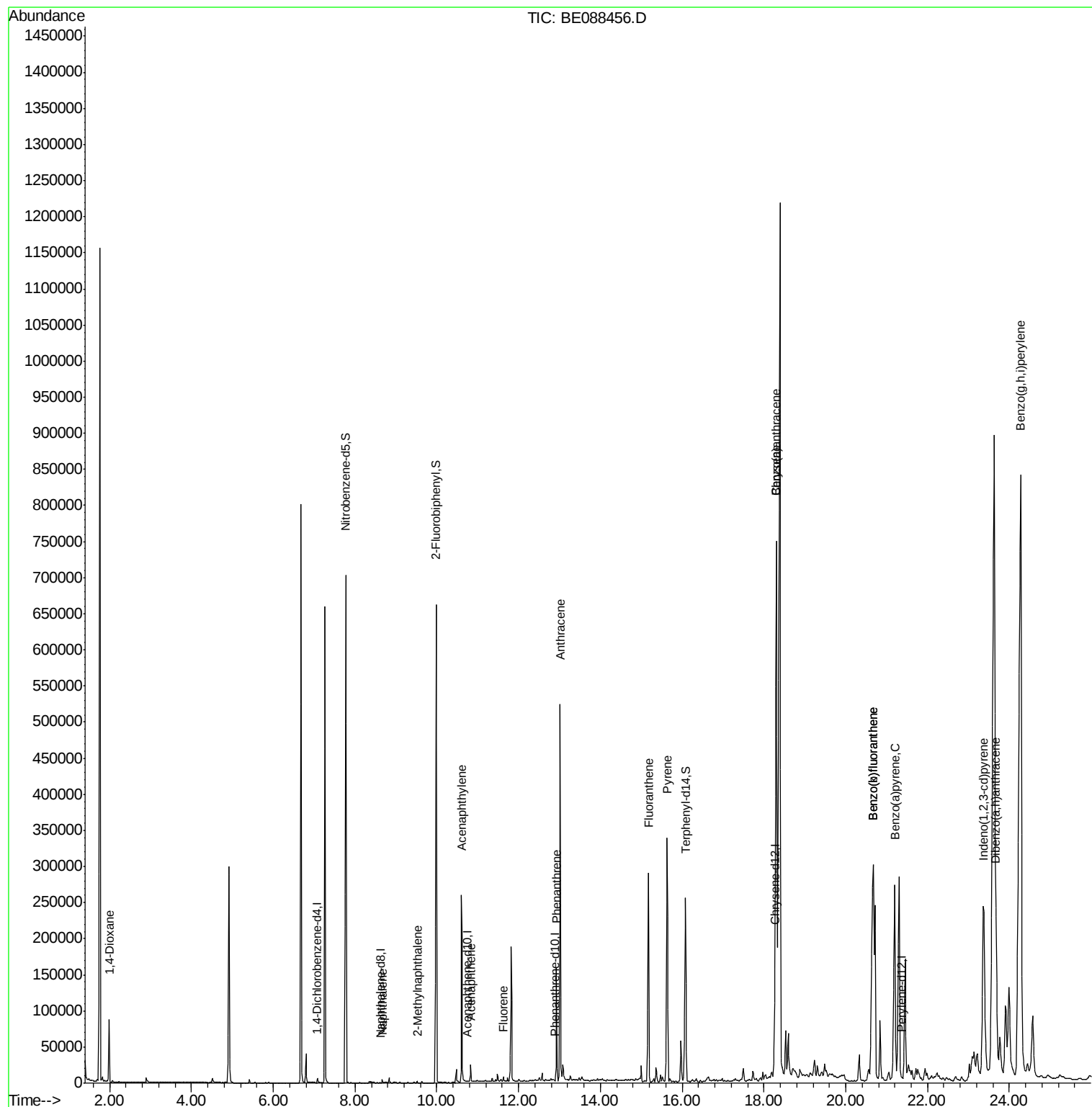
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.08	152	1716	5.00	ng	0.00
3) Naphthalene-d8	8.62	136	49	5.00	ng	-0.03
7) Acenaphthene-d10	10.74	164	23	5.00	ng	-0.05
12) Phenanthrene-d10	12.89	188	289	5.00	ng	-0.02
16) Chrysene-d12	18.26	240	602	5.00	ng	-0.05
22) Perylene-d12	21.37	264	1962	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	457659	127356.61	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	557485	85994.80	ng	0.00
18) Terphenyl-d14	16.08	244	409431	3702.05	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	1.99	88	2925	13.03	ng	# 1
5) Naphthalene	8.66	128	3675	362.41	ng	# 94
6) 2-Methylnaphthalene	9.52	142	1356	215.89	ng	# 94
9) Acenaphthylene	10.61	152	286856	7700.29	ng	99
10) Acenaphthene	10.83	154	3442	623.03	ng	# 87
11) Fluorene	11.63	166	3668	626.21	ng	89
13) Phenanthrene	12.93	178	208358	793.49	ng	98
14) Anthracene	13.02	178	545142	2570.69	ng	100
15) Fluoranthene	15.18	202	313454	7353.91	ng	99
17) Pyrene	15.63	202	393018	2001.70	ng	98
19) Benzo(a)anthracene	18.30	228	1107830	1954.81	ng	96
20) Chrysene	18.30	228	1107830	1991.53	ng	95
21) Indeno(1,2,3-cd)pyrene	23.36	276	472102	910.64	ng	# 85
23) Benzo(b)fluoranthene	20.67	252	897736	2086.62	ng	99
24) Benzo(k)fluoranthene	20.67	252	899071	1897.55	ng	99
25) Benzo(a)pyrene	21.20	252	490926	1188.47	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	153498	400.13	ng	95
27) Benzo(g,h,i)perylene	24.28	276	2429044	1380.72	ng	95

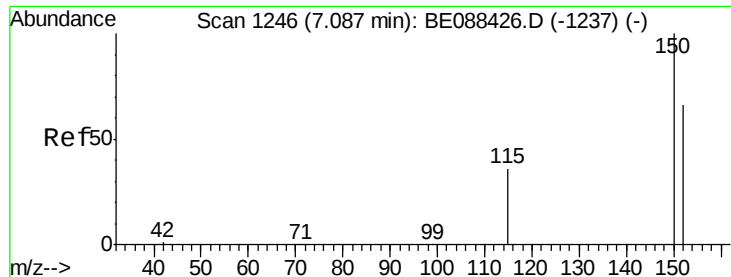
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

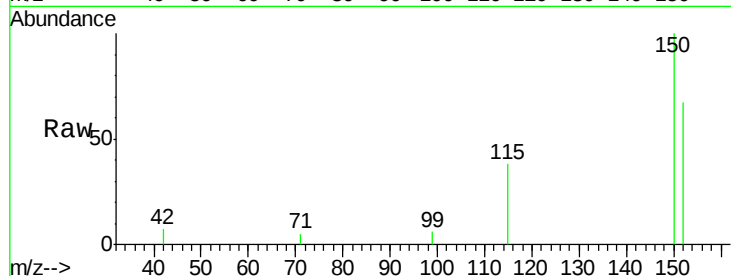
Tgt Ion:152 Resp: 1716

Ion Ratio Lower Upper

152 100

150 150.0 121.8 182.8

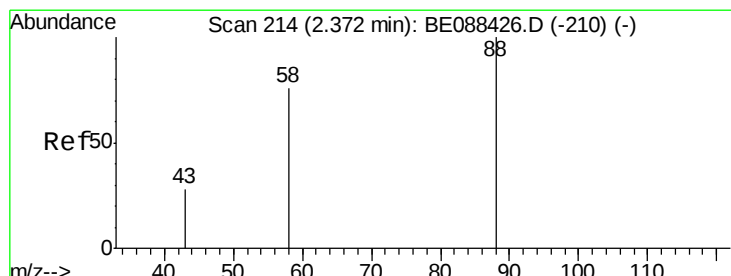
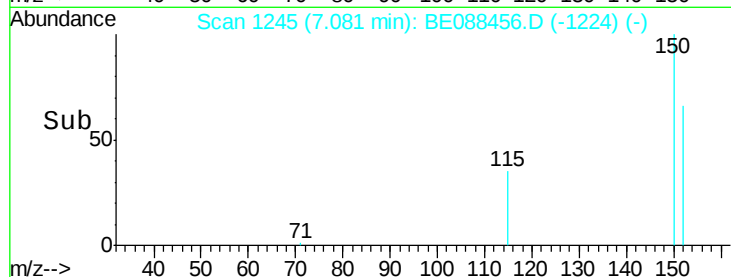
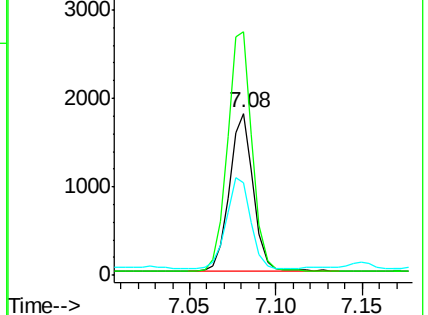
115 57.1 43.9 65.9



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: 13.03 ng

RT: 1.99 min Scan# 130

Delta R.T. -0.38 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

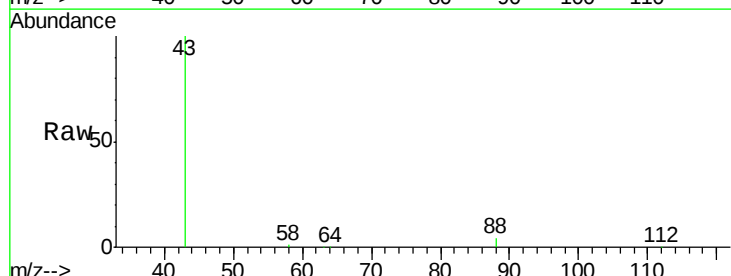
Tgt Ion: 88 Resp: 2925

Ion Ratio Lower Upper

88 100

58 24.2 59.1 88.7#

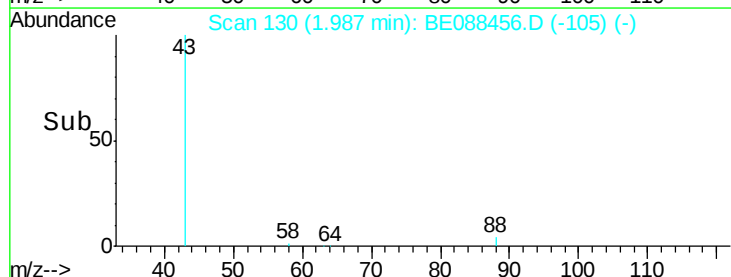
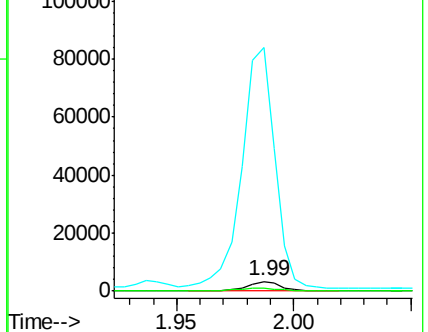
43 2801.4 21.9 32.9#

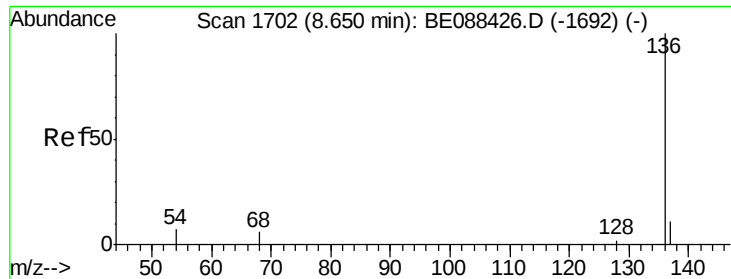


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.62 min Scan# 1697

Delta R.T. -0.03 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

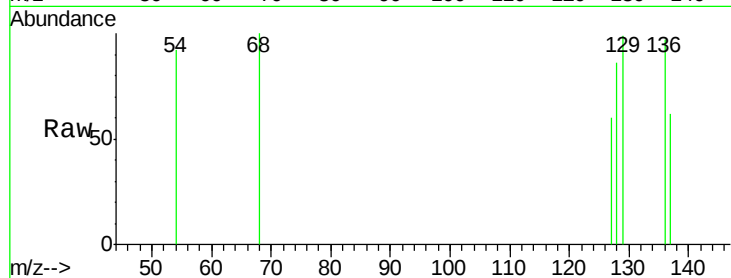
Tgt Ion:136 Resp: 49

Ion Ratio Lower Upper

136 100

137 64.0 8.8 13.2#

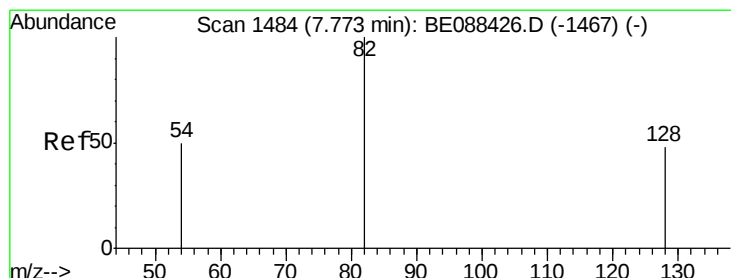
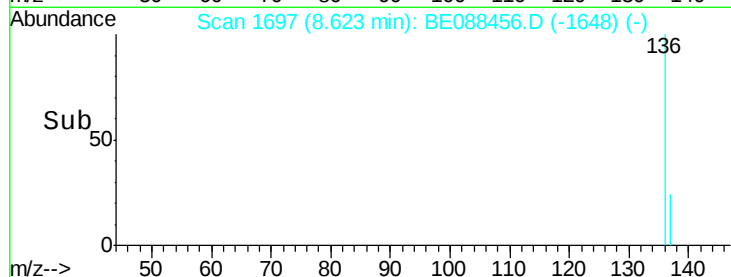
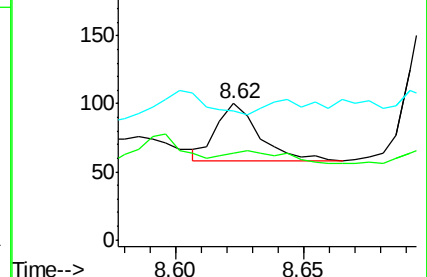
54 95.0 5.3 7.9#



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: 127356.61 ng

RT: 7.78 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

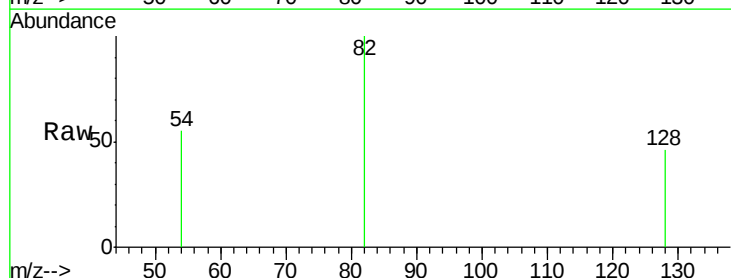
Tgt Ion: 82 Resp: 457659

Ion Ratio Lower Upper

82 100

128 46.5 38.4 57.6

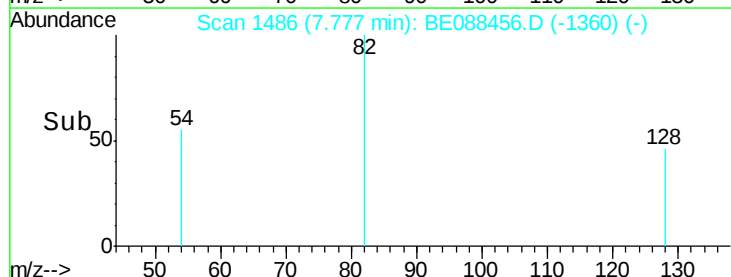
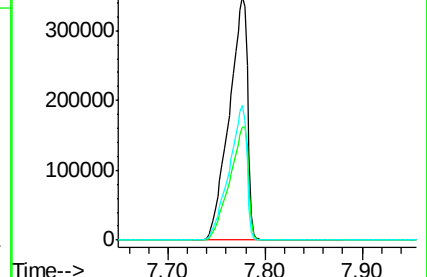
54 55.3 40.2 60.2



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: 362.41 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

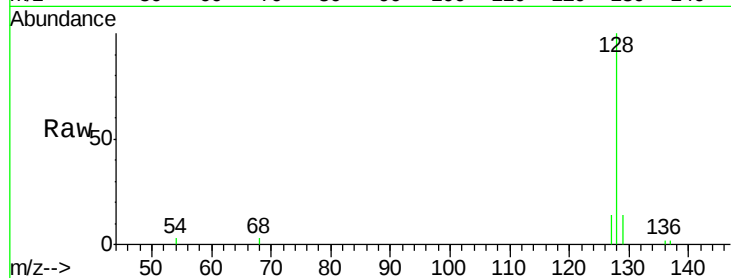
Tgt Ion:128 Resp: 3675

Ion Ratio Lower Upper

128 100

129 14.1 8.6 12.8#

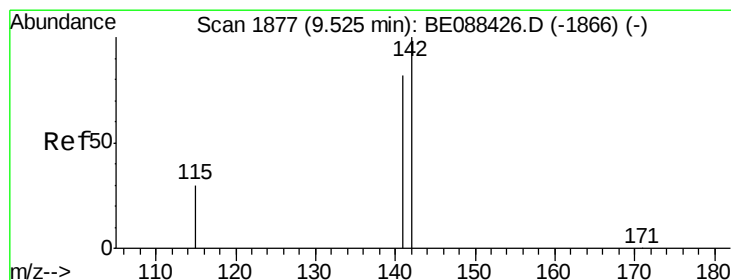
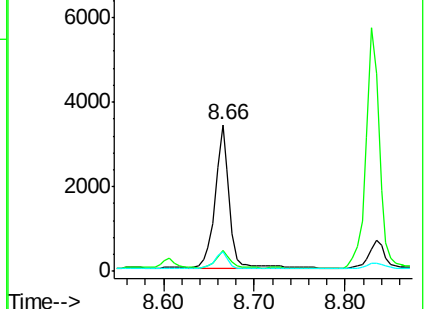
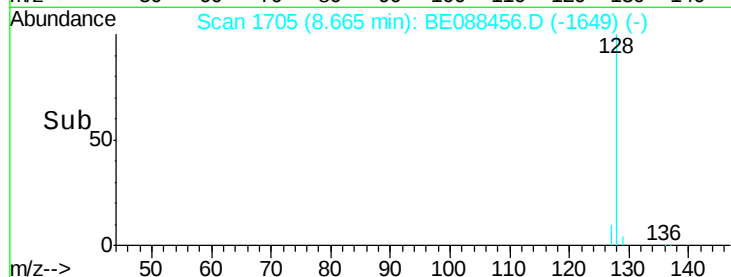
127 13.6 10.1 15.1



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: 215.89 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

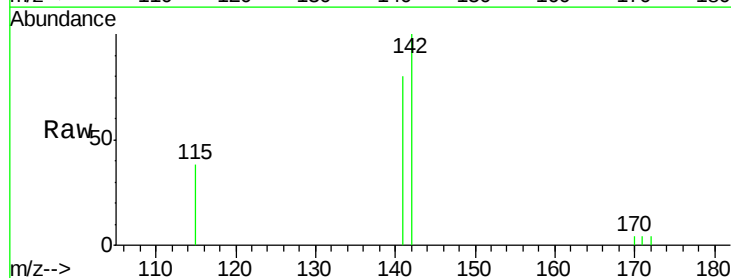
Tgt Ion:142 Resp: 1356

Ion Ratio Lower Upper

142 100

141 79.7 65.8 98.8

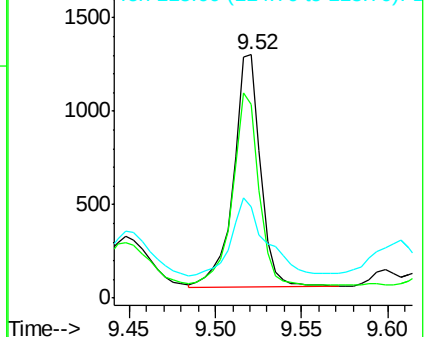
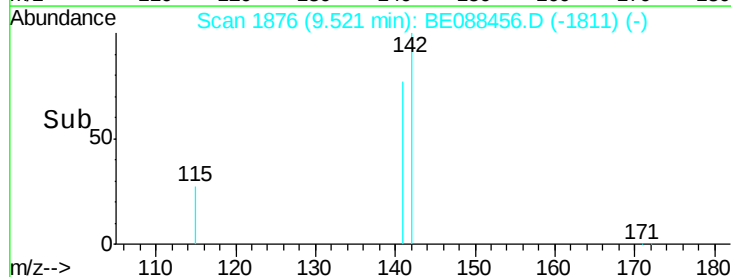
115 37.6 24.2 36.4#



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: 10.74 min Scan# 2104

Delta R.T. -0.05 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

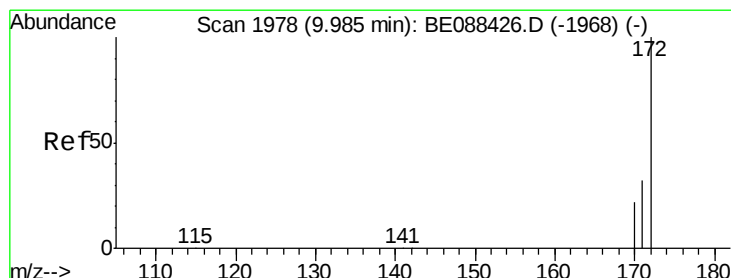
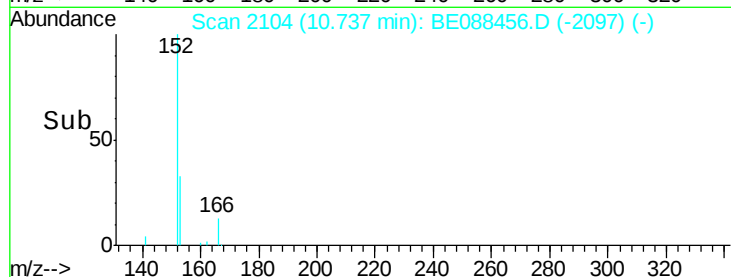
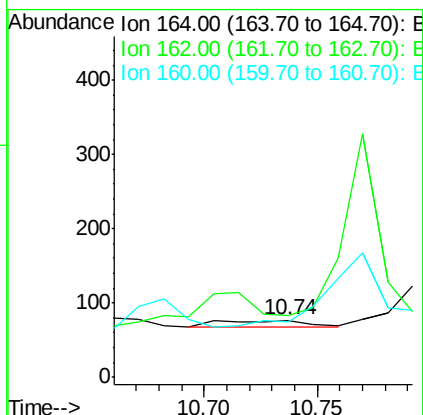
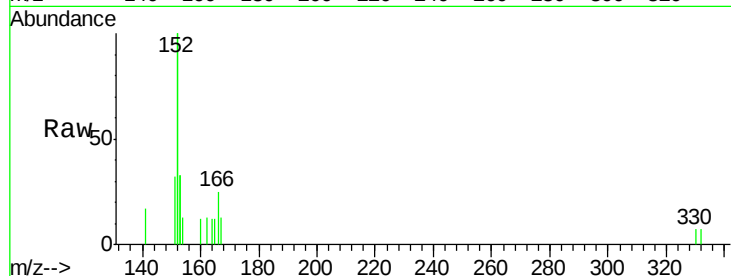
BNA_E

ClientSampleId :

YS19-SB38-1014

Tgt Ion:164 Resp: 23

Ion	Ratio	Lower	Upper
164	100		
162	109.1	77.0	115.4
160	96.1	36.8	55.2#



#8

2-Fluorobiphenyl

Concen: 85994.80 ng

RT: 9.99 min Scan# 1978

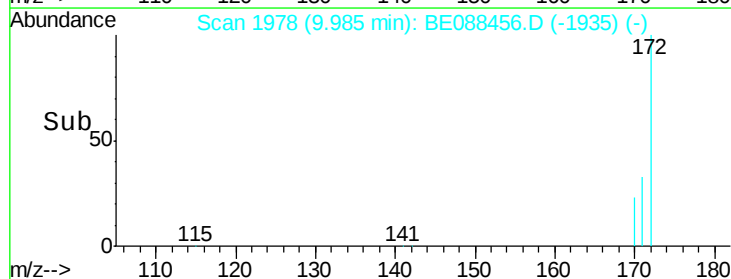
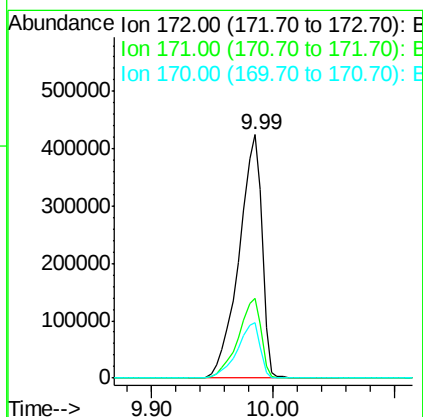
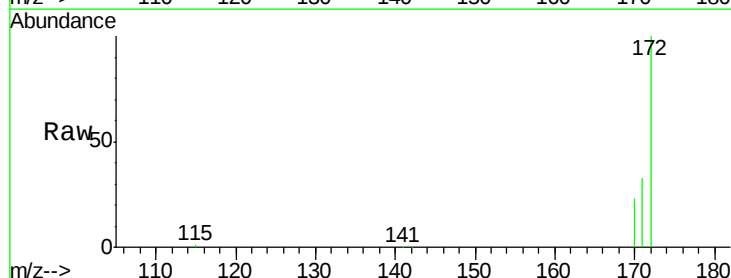
Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Tgt Ion:172 Resp: 557485

Ion	Ratio	Lower	Upper
172	100		
171	33.0	26.0	39.0
170	22.6	17.6	26.4





#9

Acenaphthylene

Concen: 7700.29 ng

RT: 10.61 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

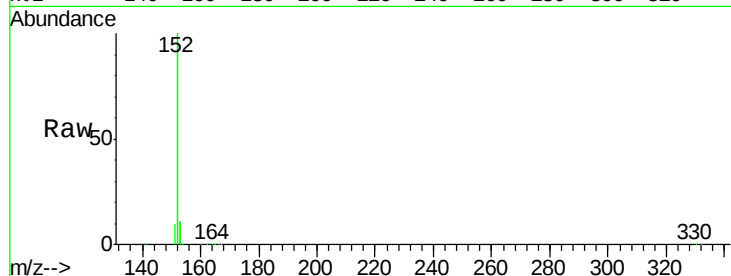
Tgt Ion:152 Resp: 286856

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

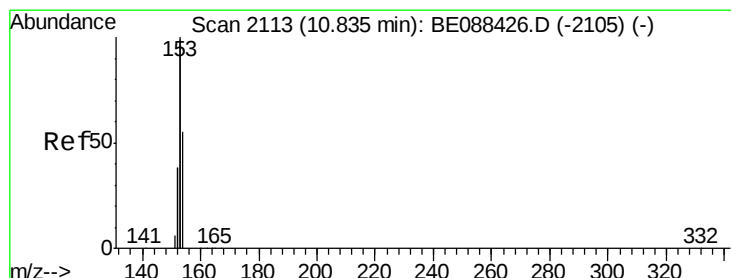
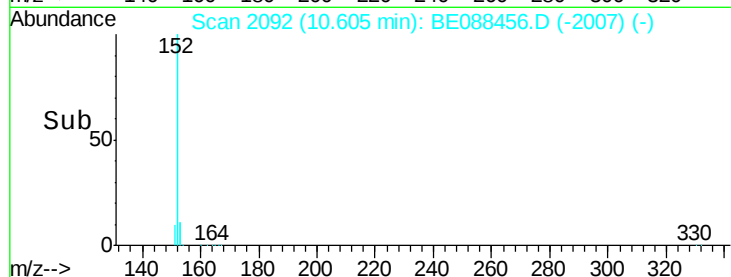
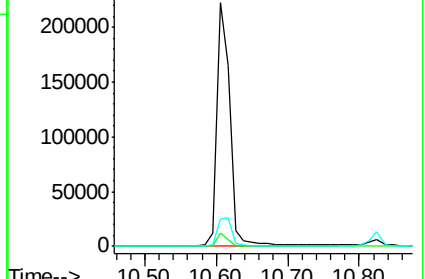
153 13.2 10.5 15.7



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: 623.03 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

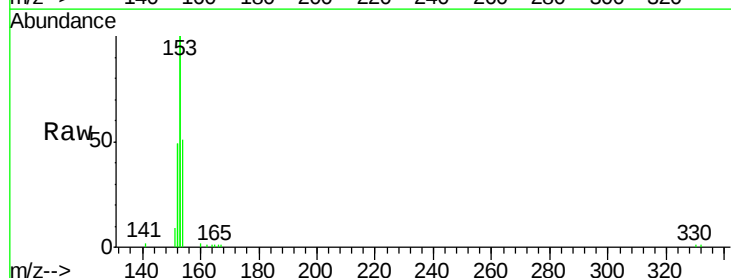
Tgt Ion:154 Resp: 3442

Ion Ratio Lower Upper

154 100

153 408.5 324.3 486.5

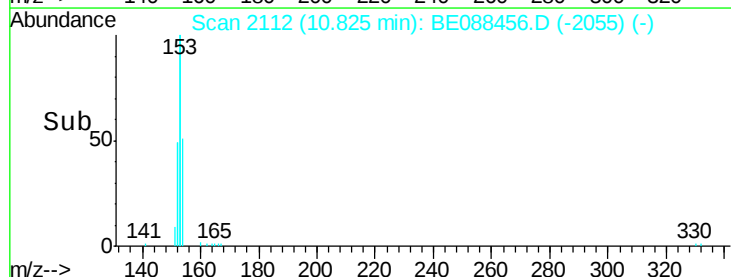
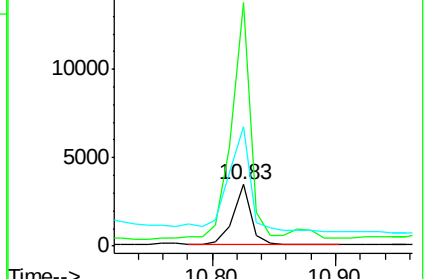
152 250.1 154.9 232.3#

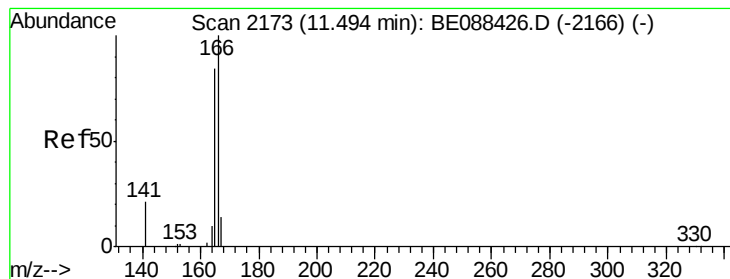


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 626.21 ng

RT: 11.63 min Scan# 2185

Delta R.T. 0.13 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

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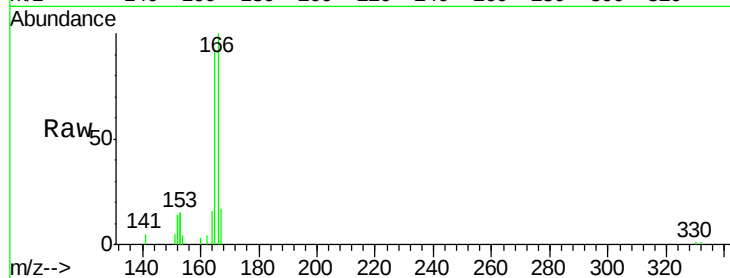
Tgt Ion:166 Resp: 3668

Ion Ratio Lower Upper

166 100

165 99.6 71.3 106.9

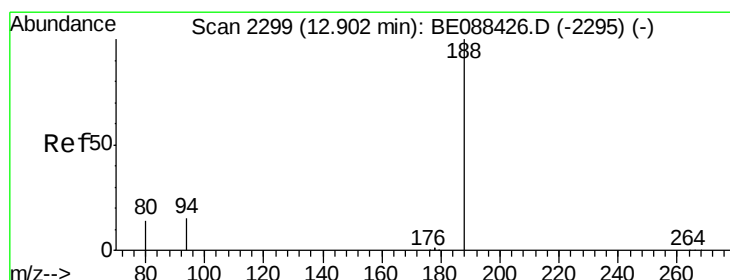
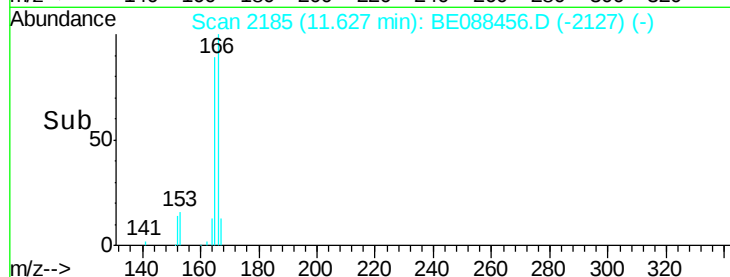
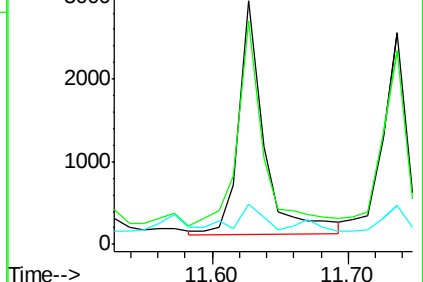
167 10.9 10.7 16.1



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: 12.89 min Scan# 2297

Delta R.T. -0.02 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

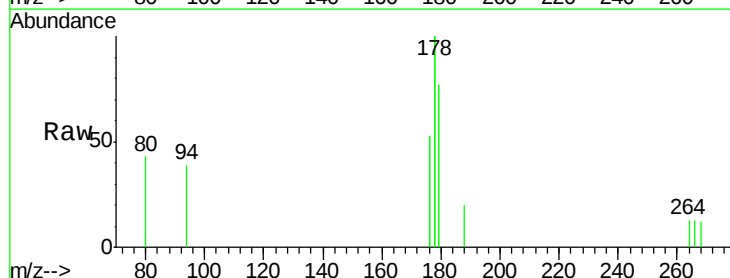
Tgt Ion:188 Resp: 289

Ion Ratio Lower Upper

188 100

94 198.8 11.8 17.8#

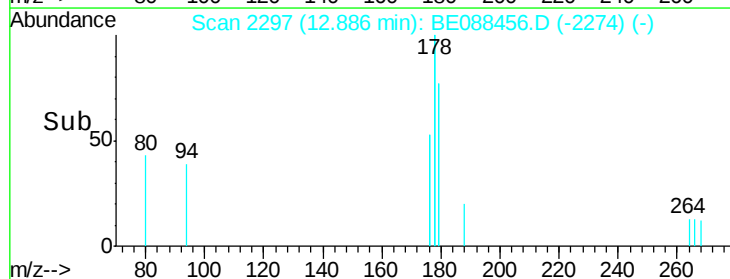
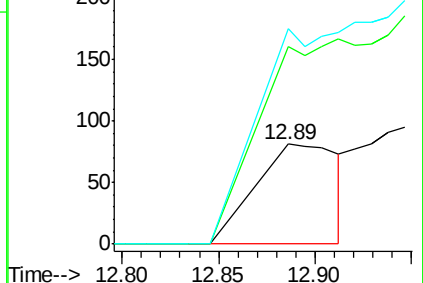
80 216.0 10.9 16.3#

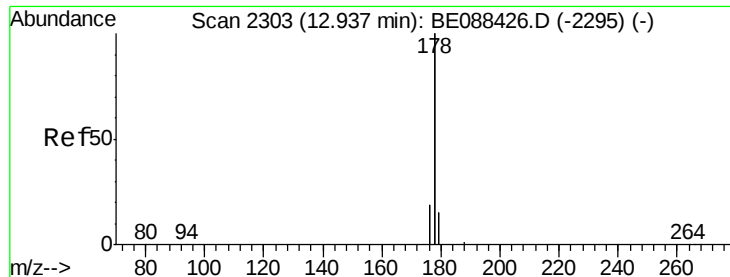


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 793.49 ng

RT: 12.93 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

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YS19-SB38-1014

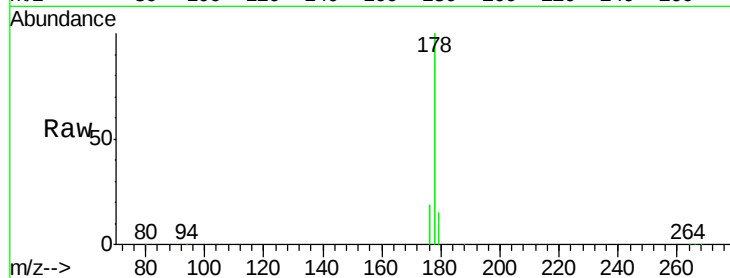
Tgt Ion:178 Resp: 208358

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

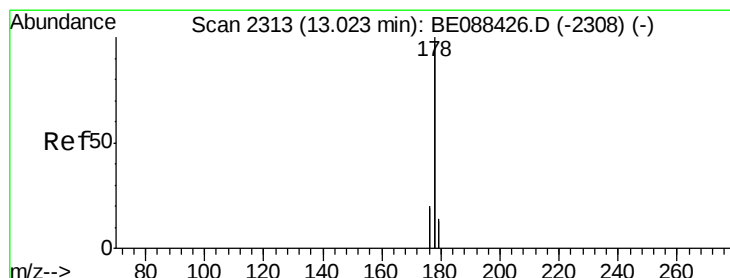
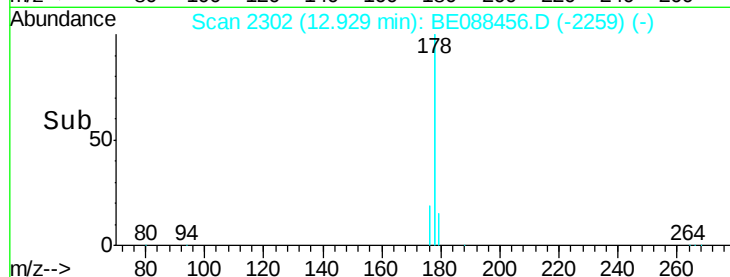
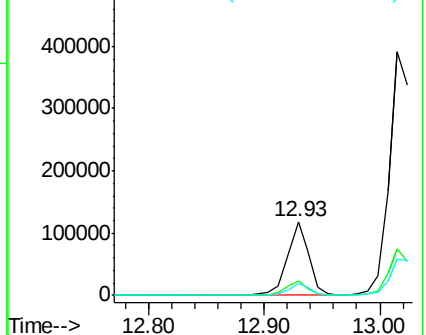
179 17.2 12.8 19.2



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: 2570.69 ng

RT: 13.02 min Scan# 2312

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

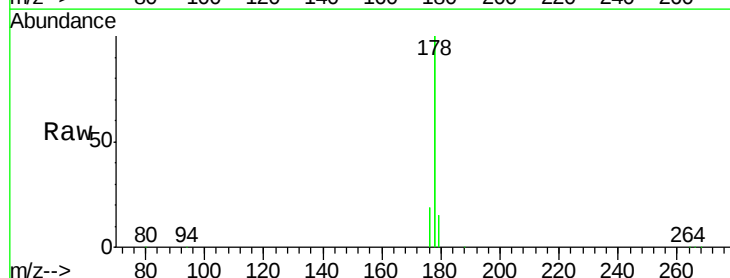
Tgt Ion:178 Resp: 545142

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

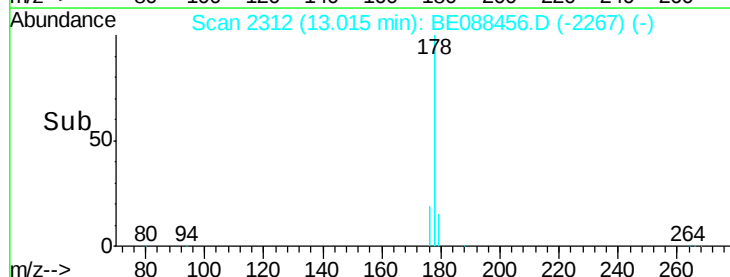
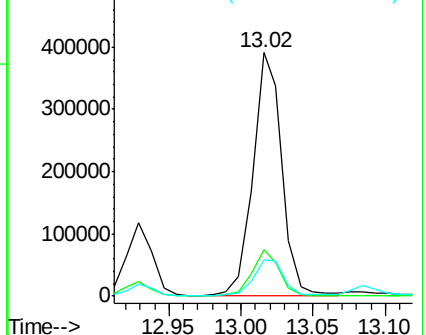
179 15.7 12.5 18.7

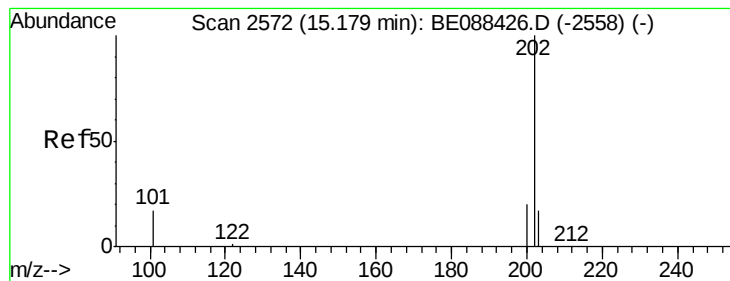


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 7353.91 ng

RT: 15.18 min Scan# 2572

Delta R.T. -0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

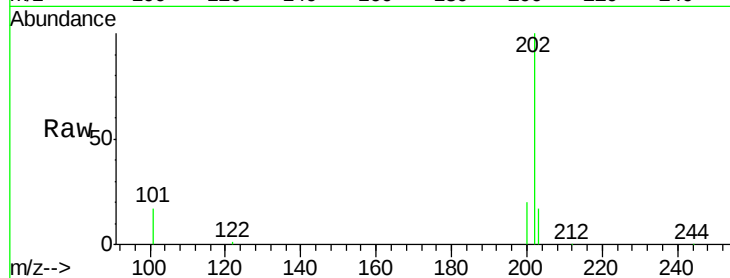
Tgt Ion: 202 Resp: 313454

Ion Ratio Lower Upper

202 100

101 17.4 14.3 21.5

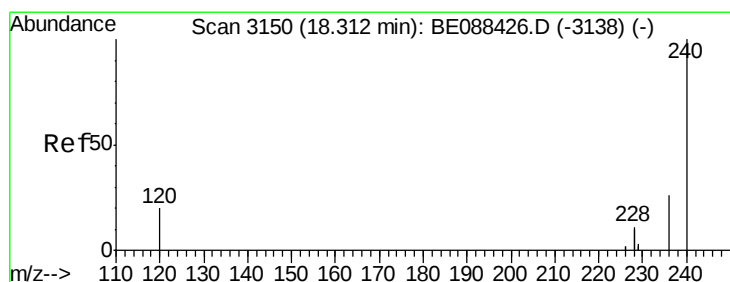
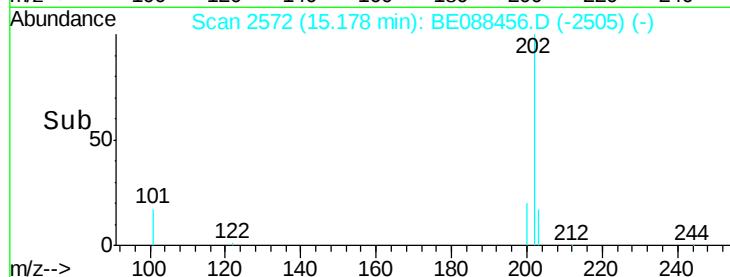
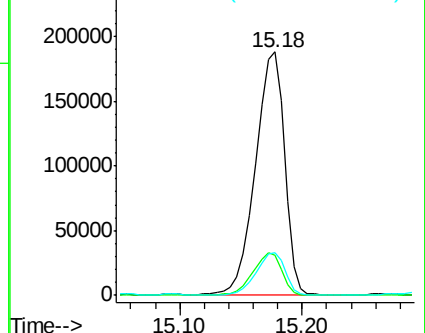
203 17.4 13.6 20.4



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: 18.26 min Scan# 3142

Delta R.T. -0.05 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

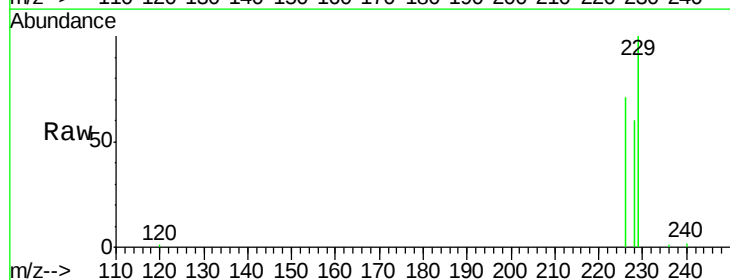
Tgt Ion: 240 Resp: 602

Ion Ratio Lower Upper

240 100

120 86.2 16.4 24.6#

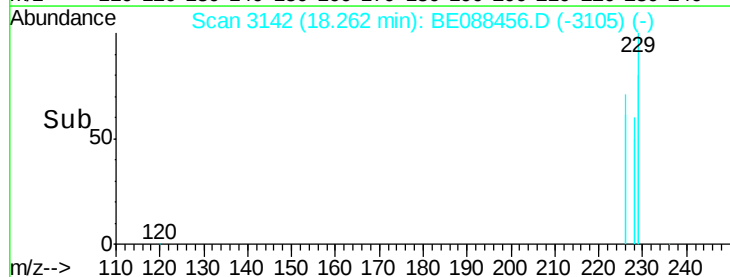
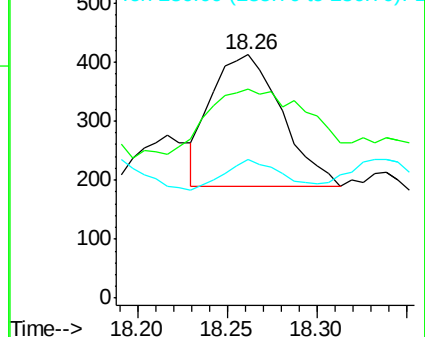
236 57.3 20.5 30.7#

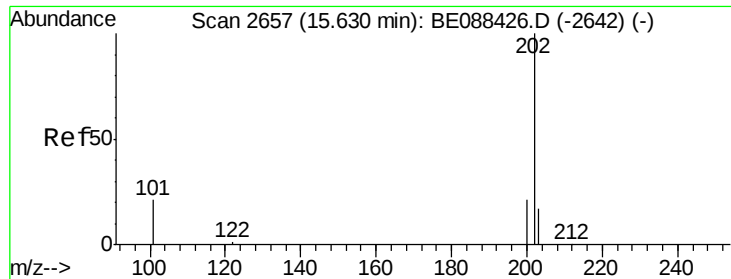


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

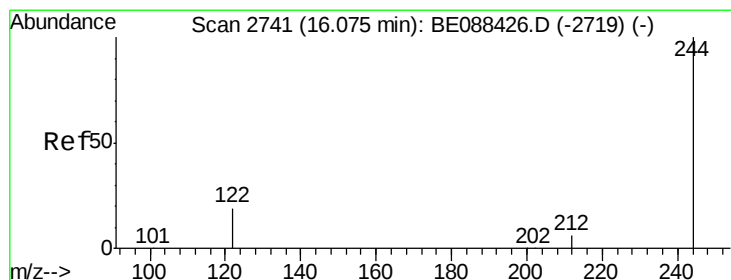
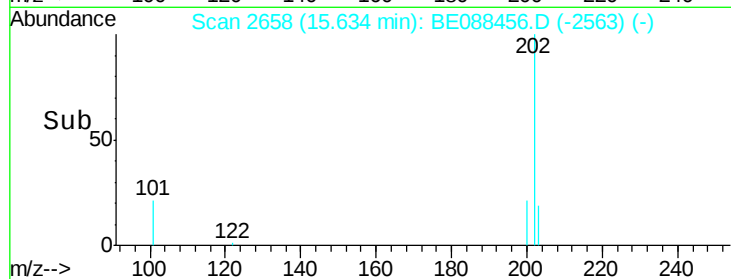
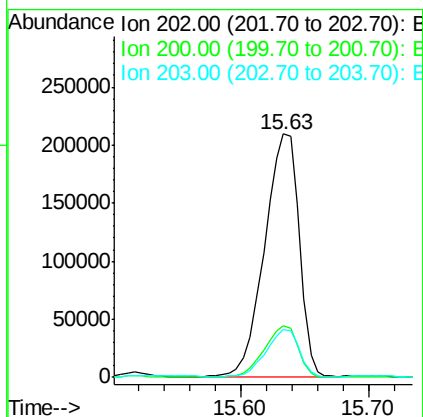
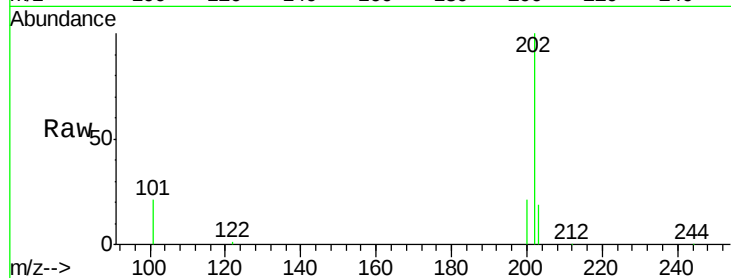




#17
 Pyrene
 Concen: 2001.70 ng
 RT: 15.63 min Scan# 2658
 Delta R.T. 0.00 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

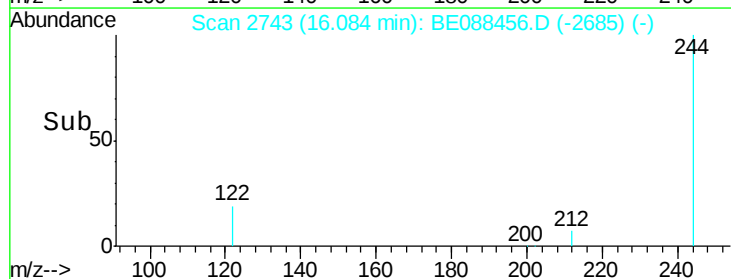
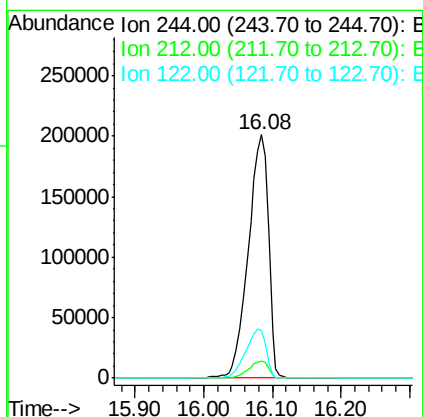
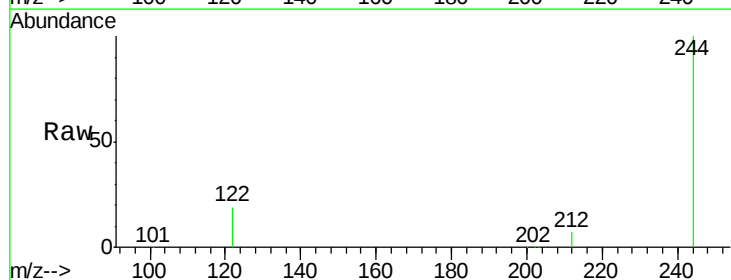
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

Tgt Ion: 202 Resp: 393018
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.1 24.1
 203 18.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 3702.05 ng
 RT: 16.08 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

Tgt Ion: 244 Resp: 409431
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 19.4 15.6 23.4





#19

Benzo(a)anthracene

Concen: 1954.81 ng

RT: 18.30 min Scan# 3148

Delta R.T. 0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

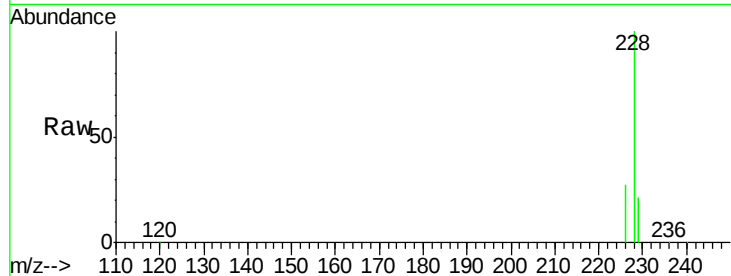
Tgt Ion:228 Resp: 1107830

Ion Ratio Lower Upper

228 100

226 26.9 19.8 29.6

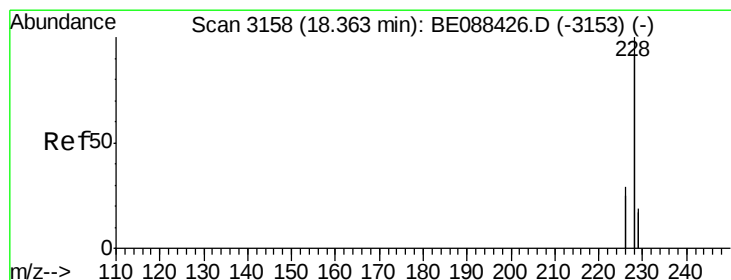
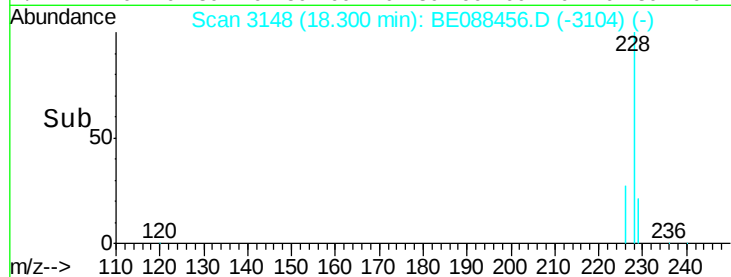
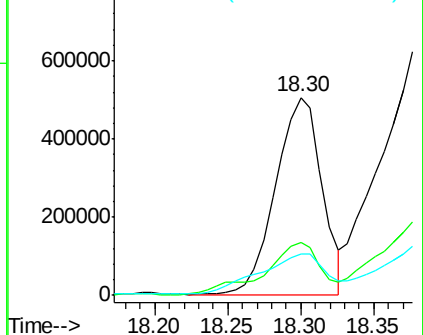
229 21.2 16.0 24.0



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: 1991.53 ng

RT: 18.30 min Scan# 3148

Delta R.T. -0.06 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

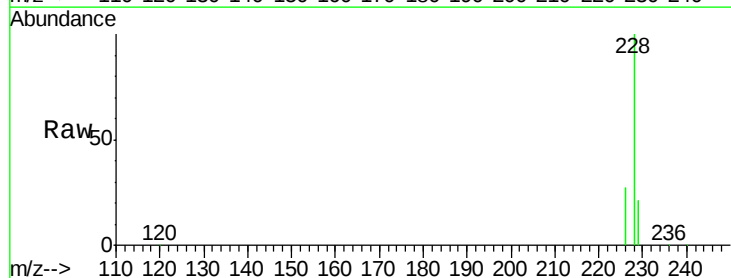
Tgt Ion:228 Resp: 1107830

Ion Ratio Lower Upper

228 100

226 26.9 23.6 35.4

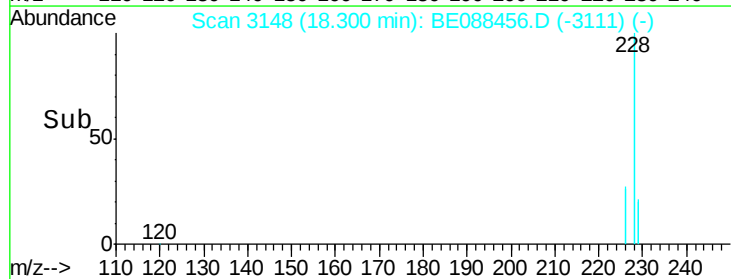
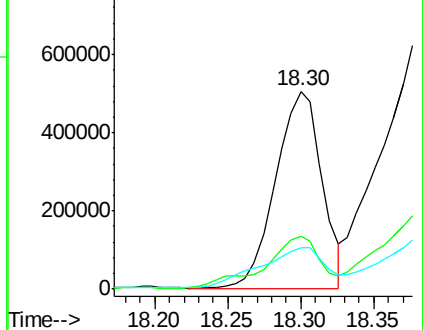
229 21.2 15.4 23.2



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: 910.64 ng

RT: 23.36 min Scan# 4122

Delta R.T. -0.18 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

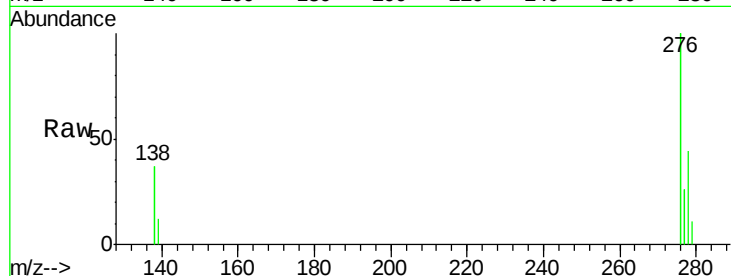
Tgt Ion:276 Resp: 472102

Ion Ratio Lower Upper

276 100

138 33.5 20.2 30.2#

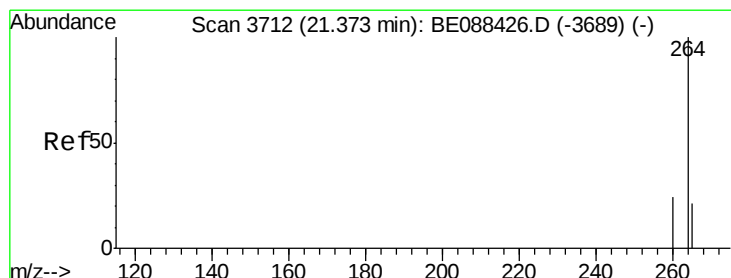
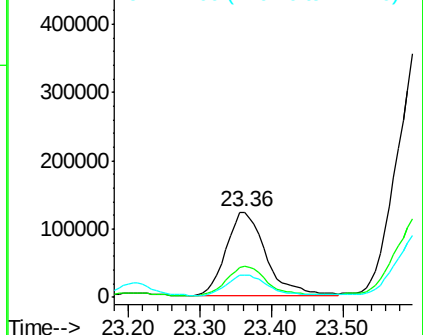
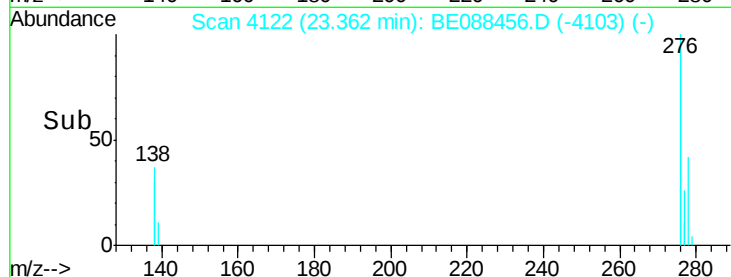
277 24.0 14.8 22.2#



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: 21.37 min Scan# 3711

Delta R.T. -0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

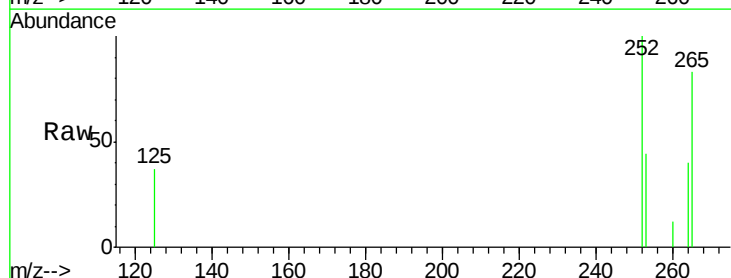
Tgt Ion:264 Resp: 1962

Ion Ratio Lower Upper

264 100

260 30.6 18.9 28.3#

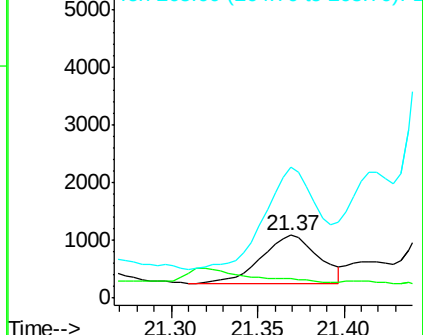
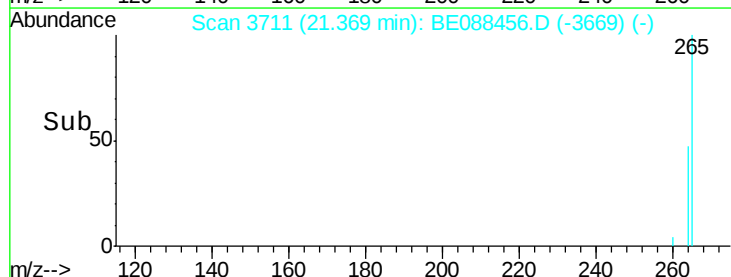
265 206.8 17.2 25.8#



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: 2086.62 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.06 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

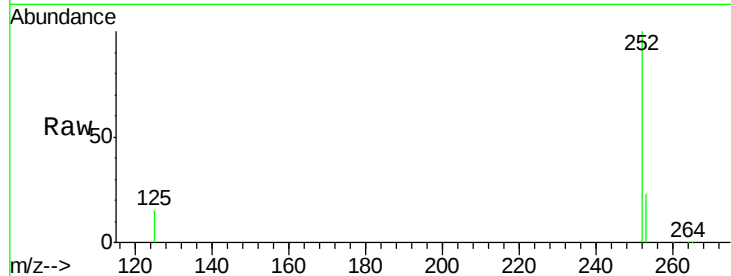
Tgt Ion:252 Resp: 897736

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

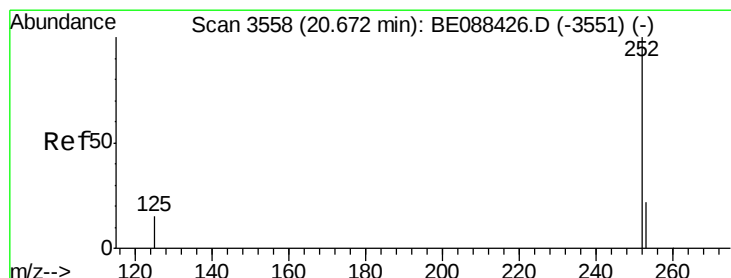
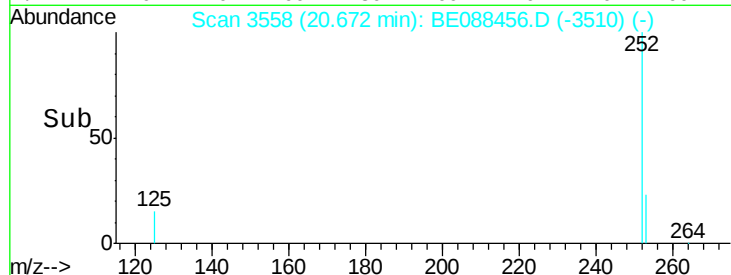
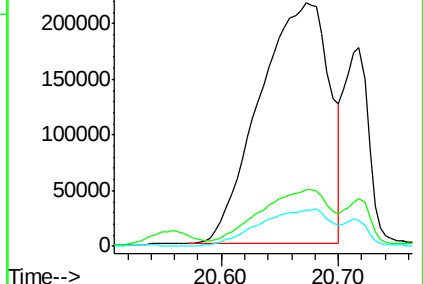
125 15.0 12.3 18.5



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: 1897.55 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

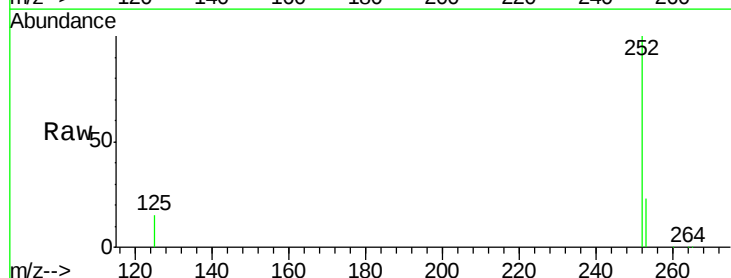
Tgt Ion:252 Resp: 899071

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

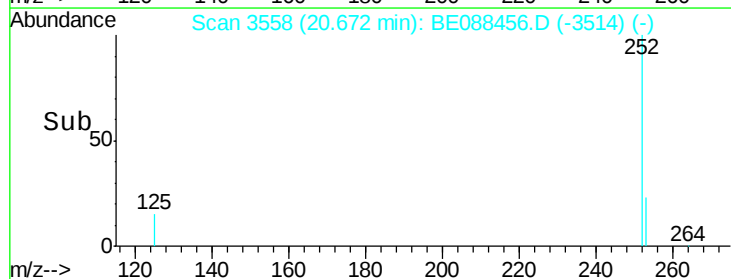
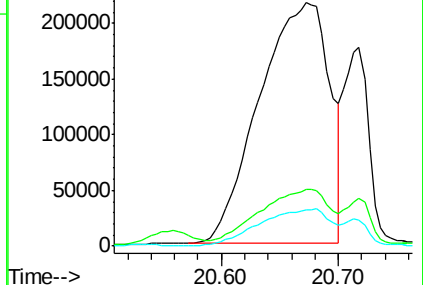
125 15.0 12.2 18.4



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: 1188.47 ng

RT: 21.20 min Scan# 3674

Delta R.T. -0.05 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

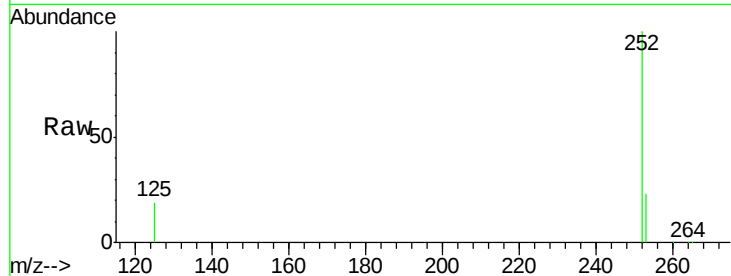
Tgt Ion:252 Resp: 490926

Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.4

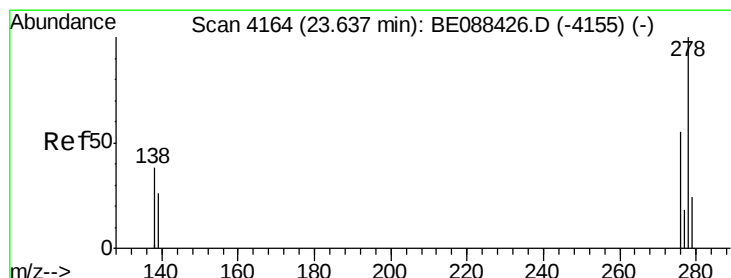
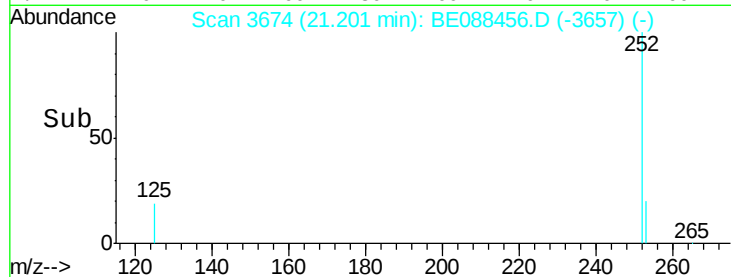
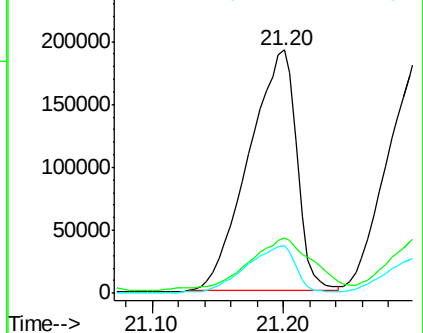
125 19.4 13.7 20.5



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: 400.13 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.04 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

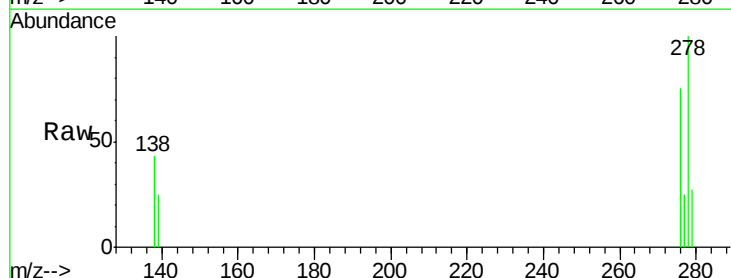
Tgt Ion:278 Resp: 153498

Ion Ratio Lower Upper

278 100

139 24.9 22.1 33.1

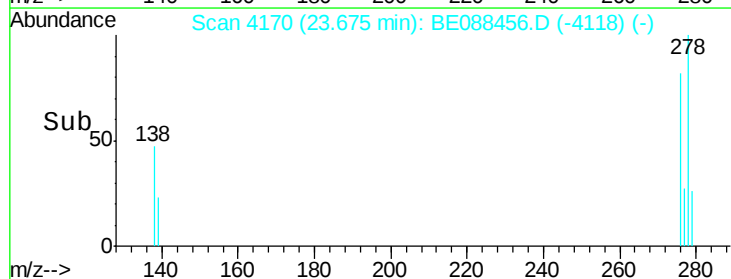
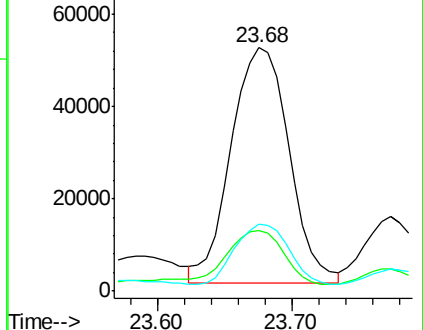
279 27.2 19.7 29.5



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: 1380.72 ng

RT: 24.28 min Scan# 4263

Delta R.T. 0.12 min

Lab File: BE088456.D

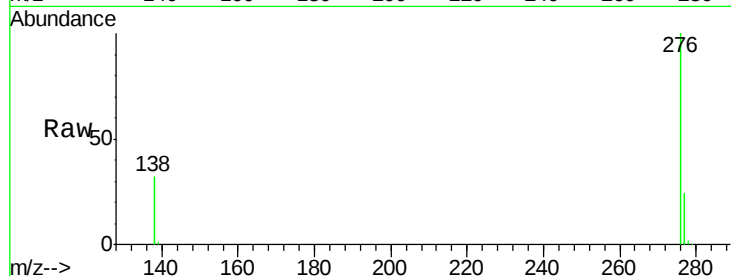
Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014



Tgt Ion:276 Resp: 2429044

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.6

138 32.1 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

