

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088234.D
 Acq On : 25 Oct 2014 6:08
 Operator : TP/JJ
 Sample : F4368-23
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43P-1014

Quant Time: Oct 27 13:47:38 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	32067	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	122447	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	66342	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	140048	5.00	ng	0.00
16) Chrysene-d12	18.35	240	73772	5.00	ng	0.00
22) Perylene-d12	21.40	264	55495	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.81	82	394864	42.69	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	545135	29.47	ng	0.00
18) Terphenyl-d14	16.13	244	512918	42.45	ng	0.03

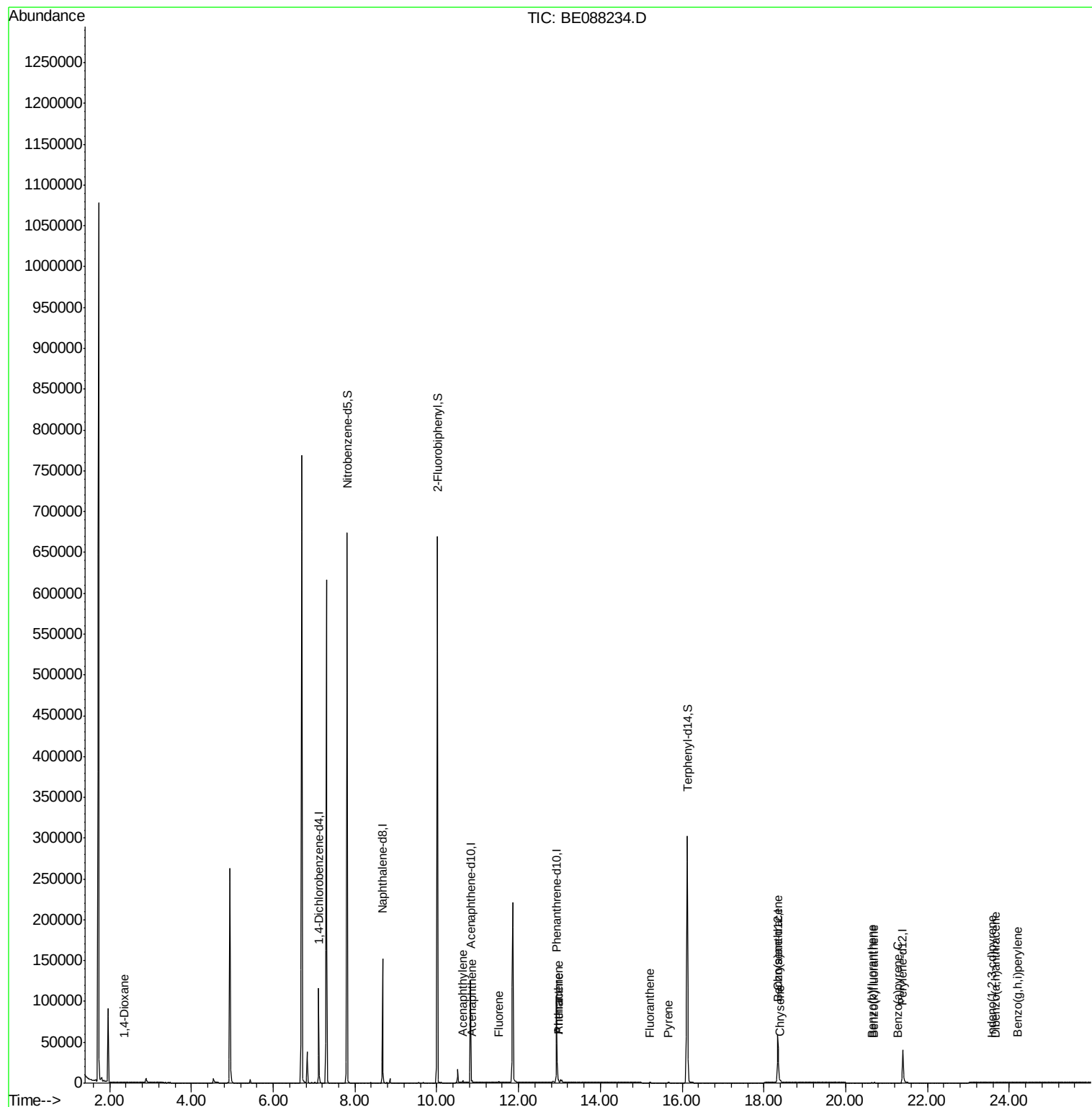
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.37	88	125	0.03	ng	# 69
9) Acenaphthylene	10.64	152	2389	0.02	ng	# 91
10) Acenaphthene	10.86	154	327	0.02	ng	# 71
11) Fluorene	11.52	166	501	0.03	ng	# 92
13) Phenanthrene	12.97	178	6624	0.05	ng	98
14) Anthracene	12.97	178	6624	0.07	ng	97
15) Fluoranthene	15.21	202	753	0.04	ng	98
17) Pyrene	15.66	202	785	0.04	ng	99
19) Benzo(a)anthracene	18.33	228	3650	0.06	ng	# 85
20) Chrysene	18.40	228	2998	0.05	ng	# 81
21) Indeno(1,2,3-cd)pyrene	23.56	276	1771	0.27	ng	# 72
23) Benzo(b)fluoranthene	20.64	252	689	0.22	ng	# 69
24) Benzo(k)fluoranthene	20.70	252	736	0.05	ng	# 67
25) Benzo(a)pyrene	21.28	252	626	0.22	ng	# 66
26) Dibenzo(a,h)anthracene	23.66	278	438	0.25	ng	# 42
27) Benzo(g,h,i)perylene	24.20	276	3141	0.07	ng	# 66

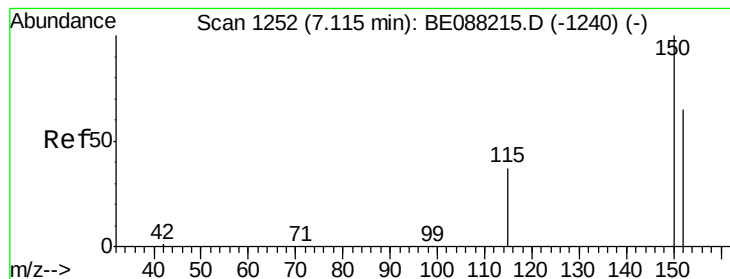
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

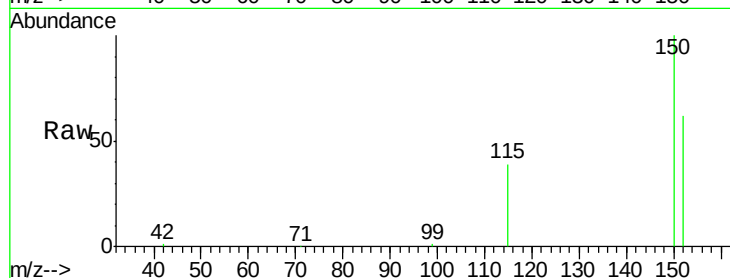
Tgt Ion: 152 Resp: 32067

Ion Ratio Lower Upper

152 100

150 160.3 123.2 184.8

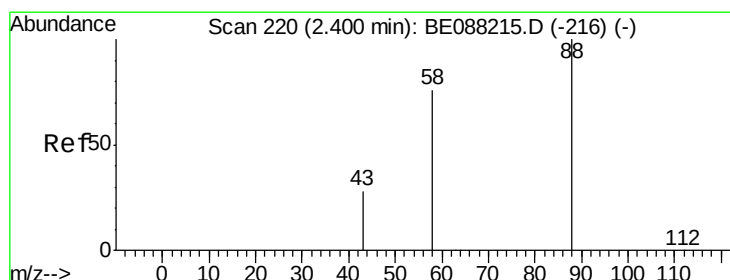
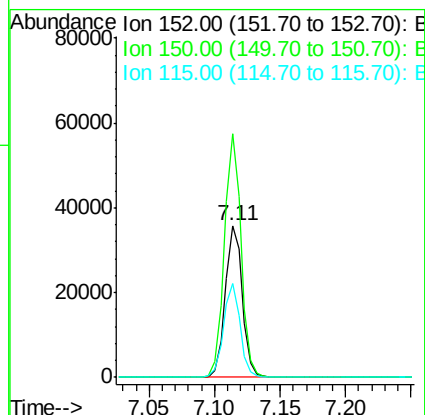
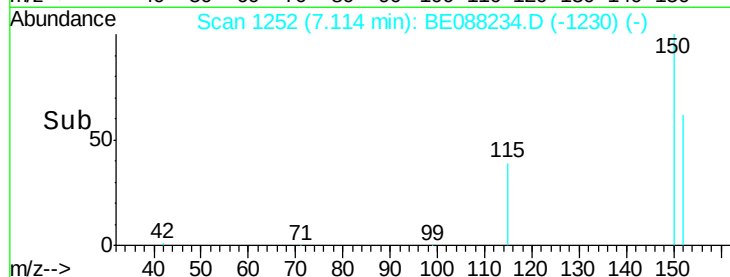
115 62.1 45.3 67.9



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: 2.37 min Scan# 213

Delta R.T. -0.03 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

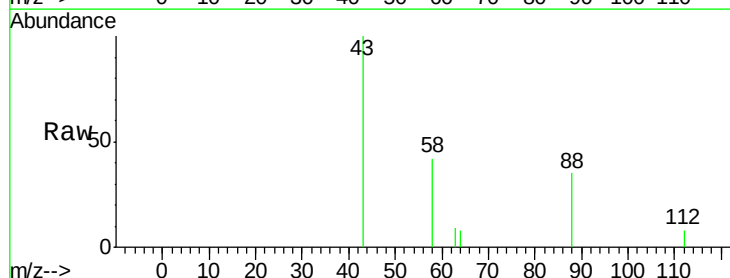
Tgt Ion: 88 Resp: 125

Ion Ratio Lower Upper

88 100

58 92.8 59.0 88.4#

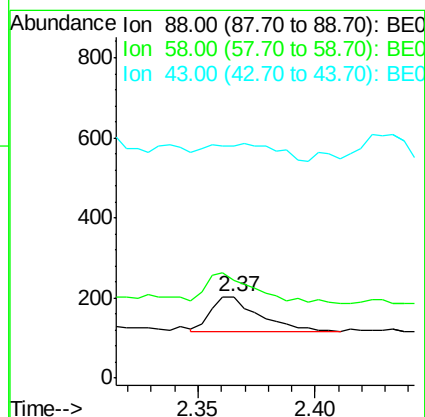
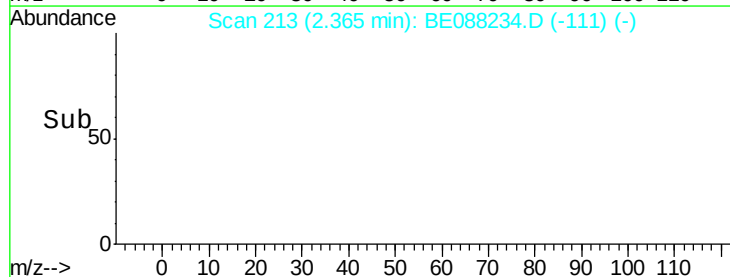
43 0.0 21.9 32.9#

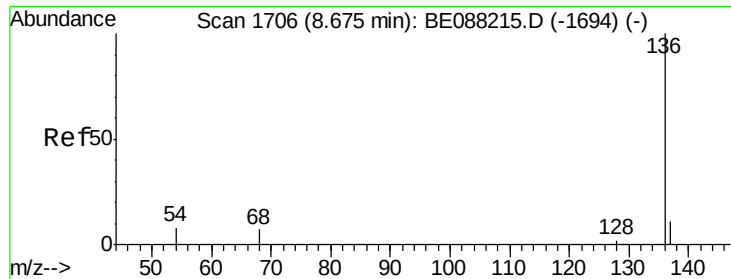


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

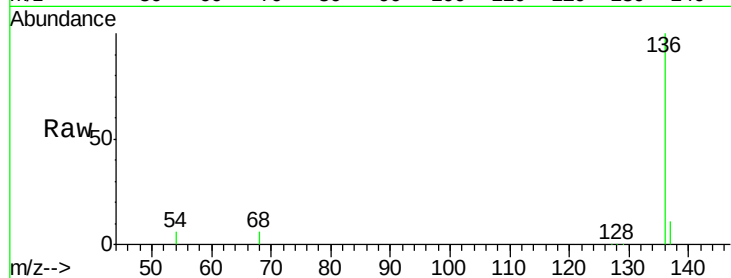
Tgt Ion: 136 Resp: 122447

Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

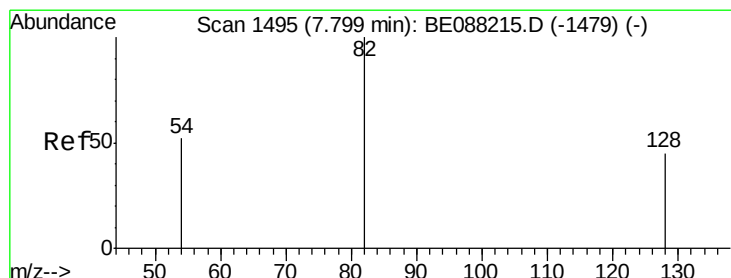
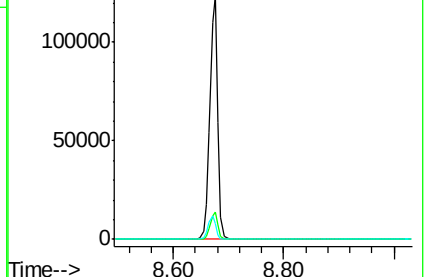
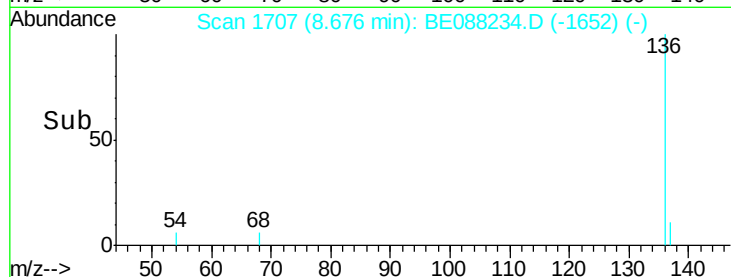
54 6.3 6.1 9.1



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: 42.69 ng

RT: 7.81 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

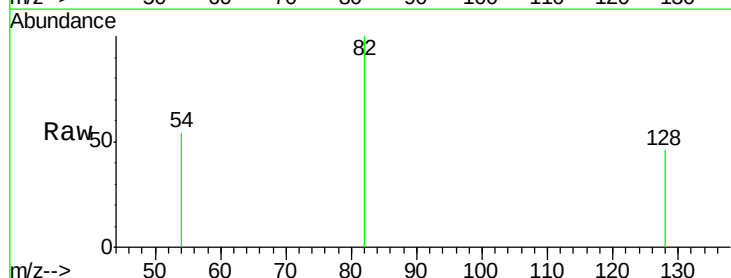
Tgt Ion: 82 Resp: 394864

Ion Ratio Lower Upper

82 100

128 46.2 36.2 54.2

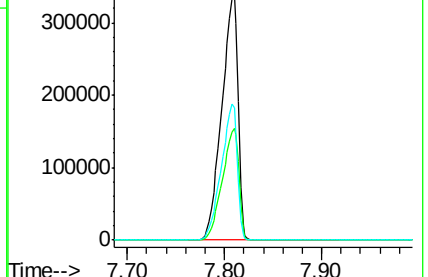
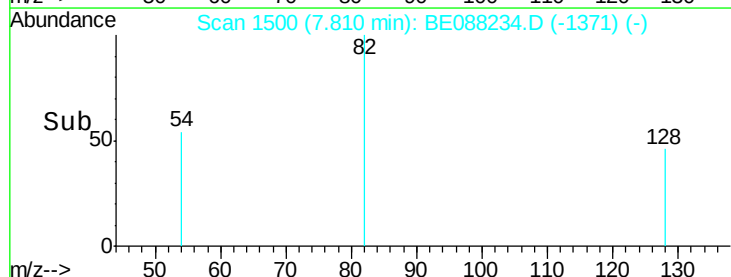
54 54.4 41.8 62.8

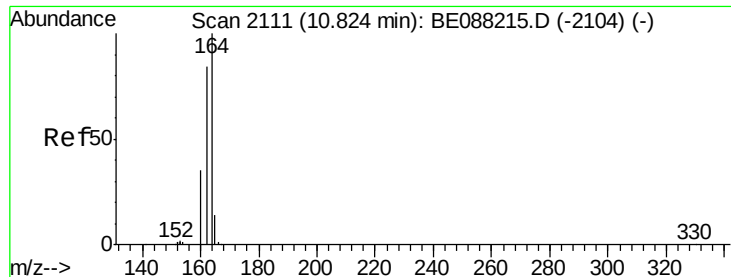


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

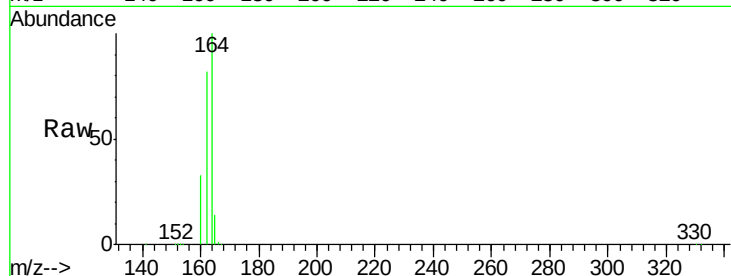
Tgt Ion:164 Resp: 66342

Ion Ratio Lower Upper

164 100

162 81.6 67.4 101.0

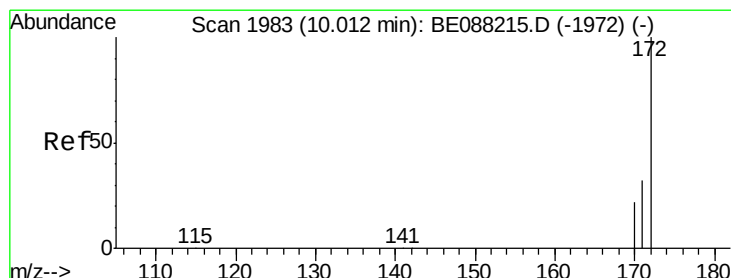
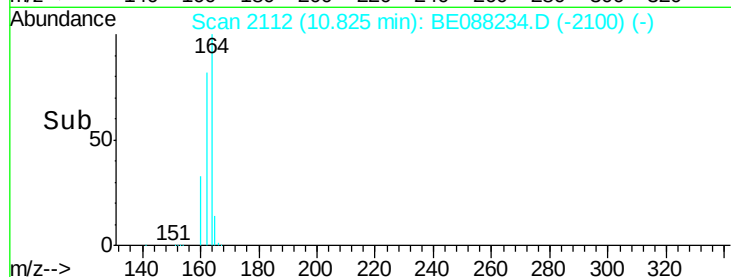
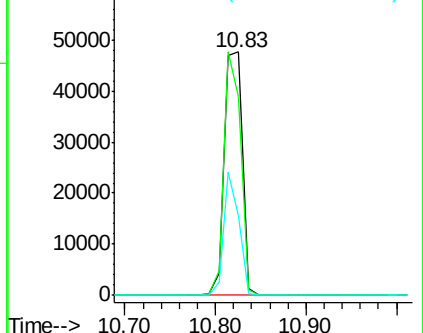
160 32.9 27.7 41.5



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: 29.47 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

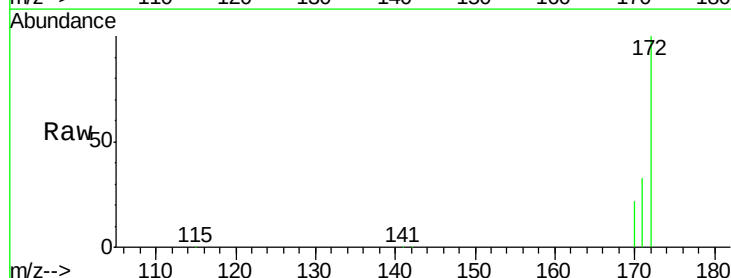
Tgt Ion:172 Resp: 545135

Ion Ratio Lower Upper

172 100

171 32.6 25.8 38.6

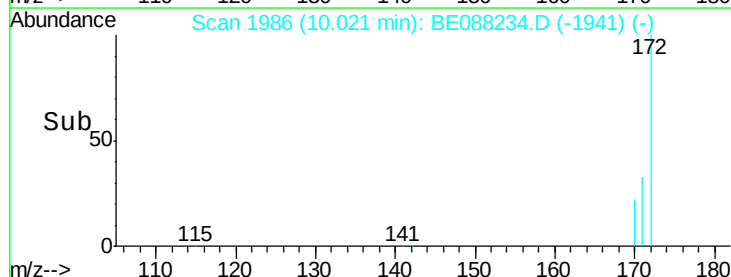
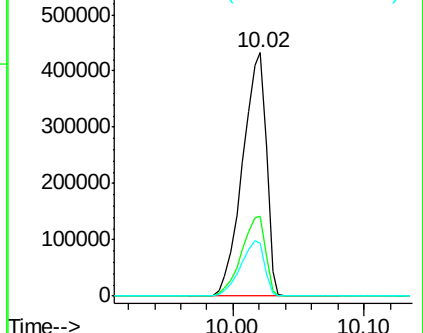
170 21.7 17.4 26.0

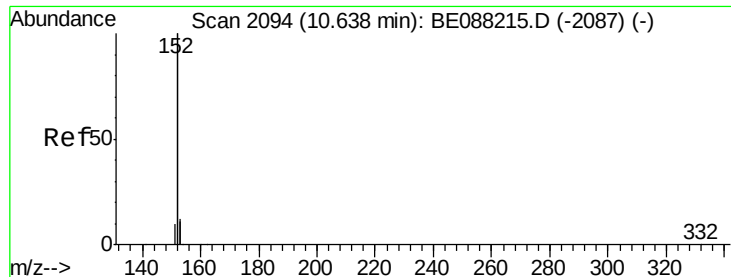


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.02 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

Tgt Ion:152 Resp: 2389

Ion Ratio Lower Upper

152 100

151 4.0

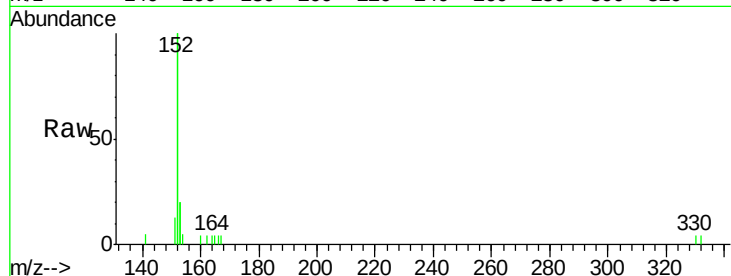
3.7

5.5

153 17.6

10.3

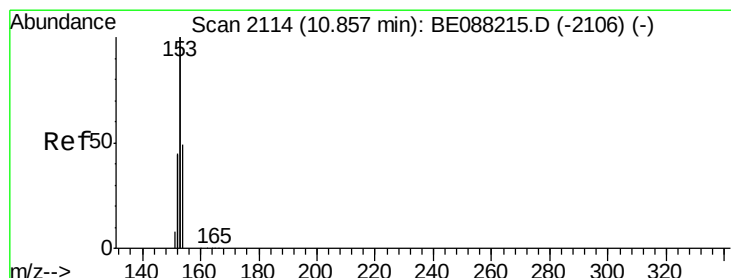
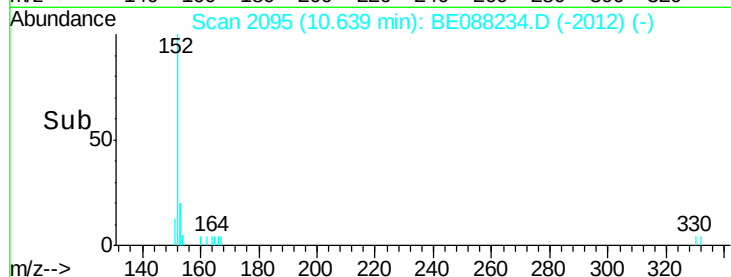
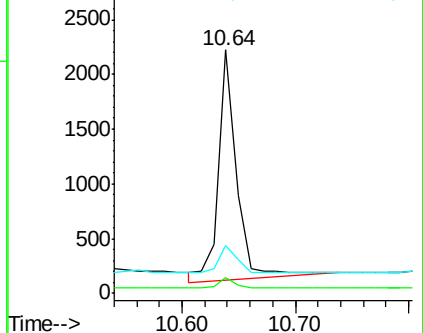
15.5#



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: 0.02 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Tgt Ion:154 Resp: 327

Ion Ratio Lower Upper

154 100

153 431.8

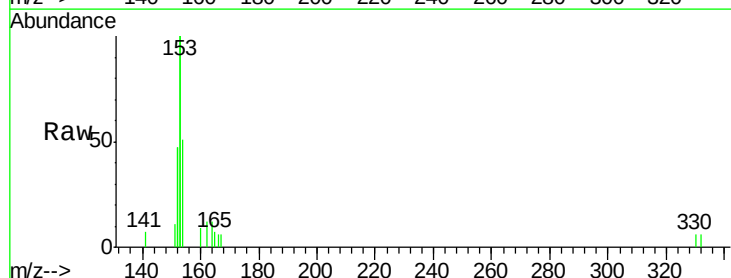
326.0

489.0

152 297.2

155.6

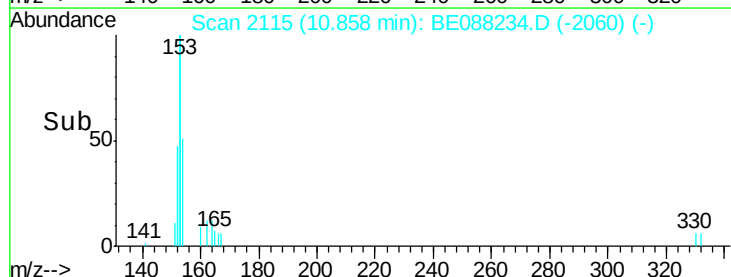
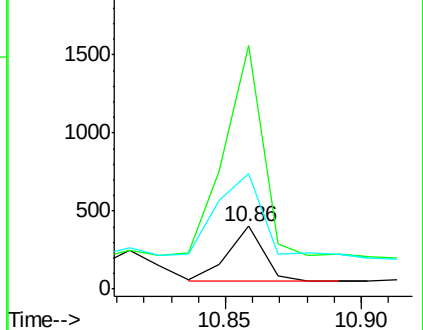
233.4#

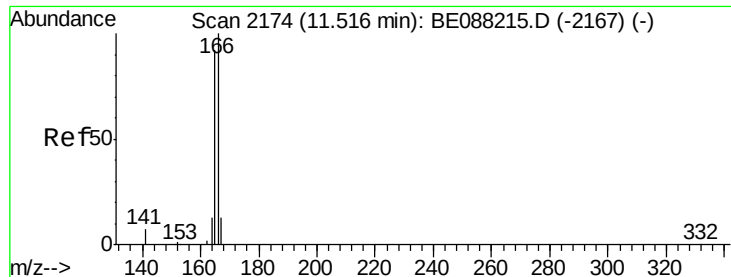


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.03 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

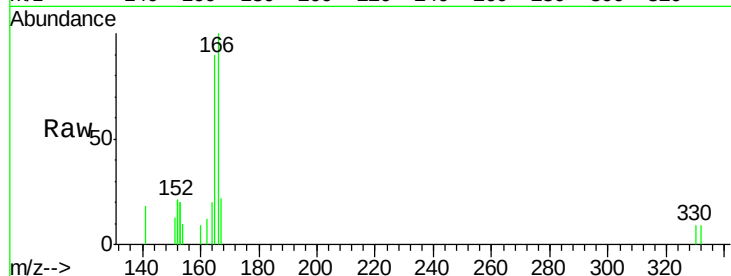
Tgt Ion:166 Resp: 501

Ion Ratio Lower Upper

166 100

165 85.2 71.8 107.6

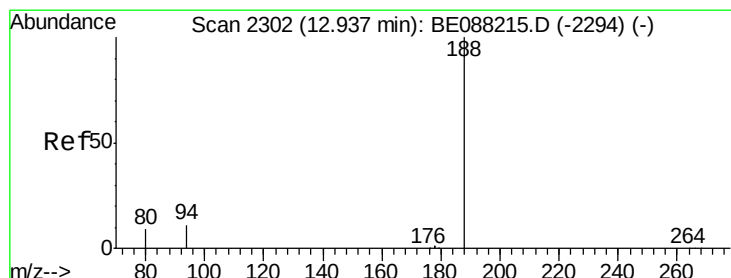
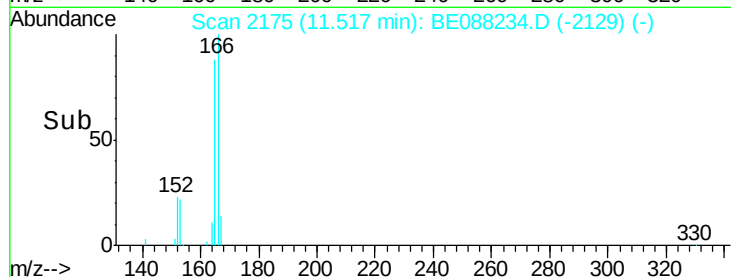
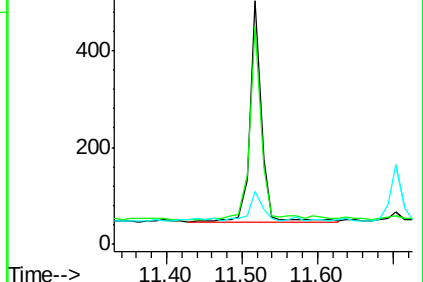
167 0.0 10.7 16.1#



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: 12.93 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

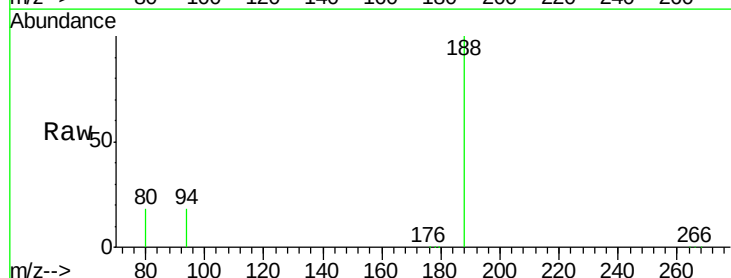
Tgt Ion:188 Resp: 140048

Ion Ratio Lower Upper

188 100

94 18.4 8.5 12.7#

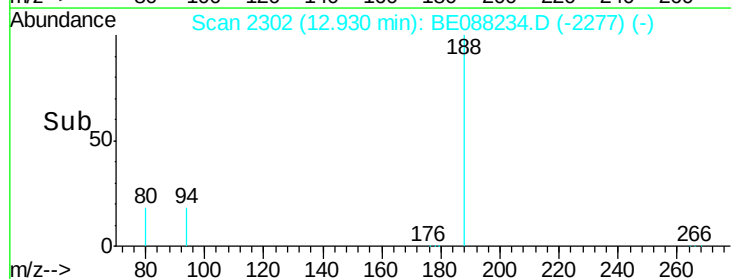
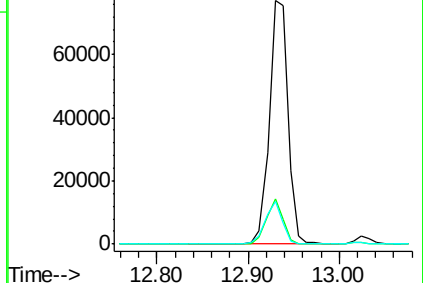
80 17.7 7.4 11.0#

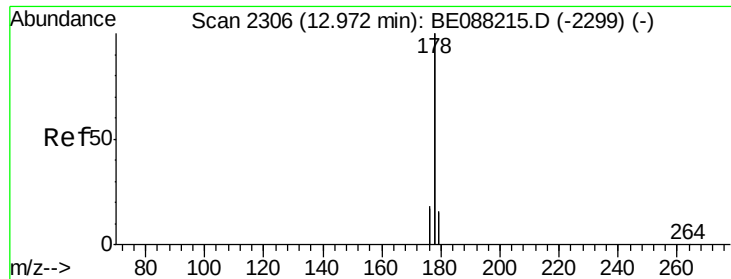


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.05 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

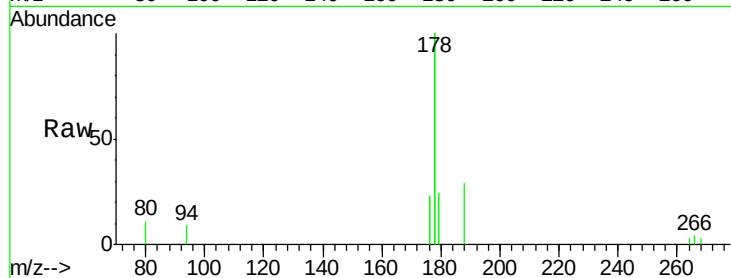
Tgt Ion:178 Resp: 6624

Ion Ratio Lower Upper

178 100

176 18.1 14.0 21.0

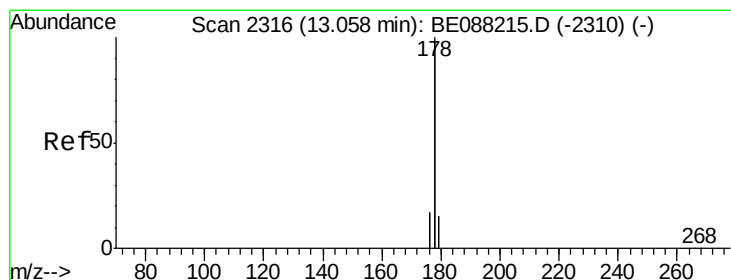
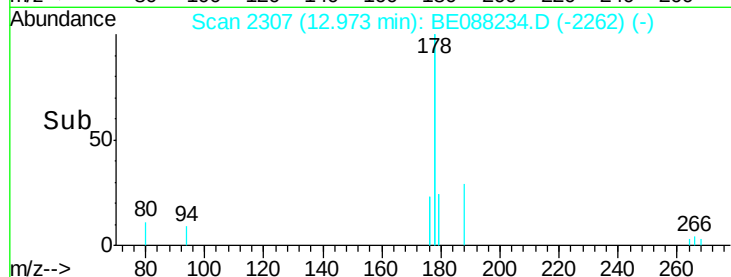
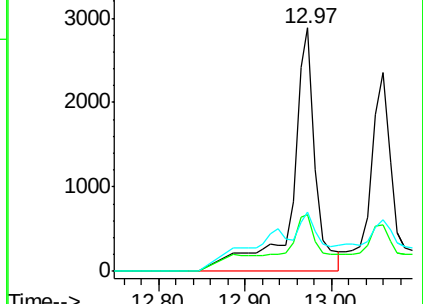
179 13.4 11.8 17.6



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: 0.07 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.09 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

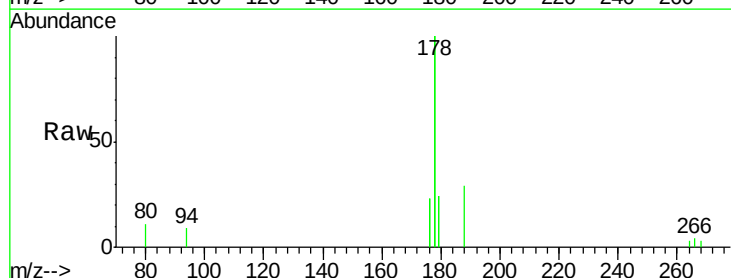
Tgt Ion:178 Resp: 6624

Ion Ratio Lower Upper

178 100

176 18.1 14.7 22.1

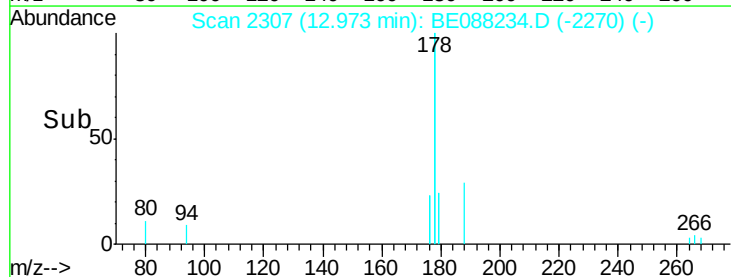
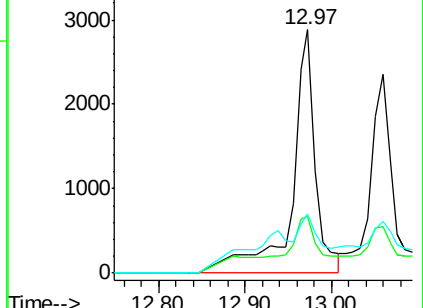
179 13.4 12.3 18.5

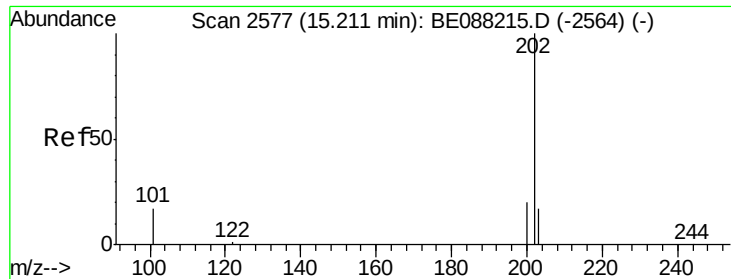


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

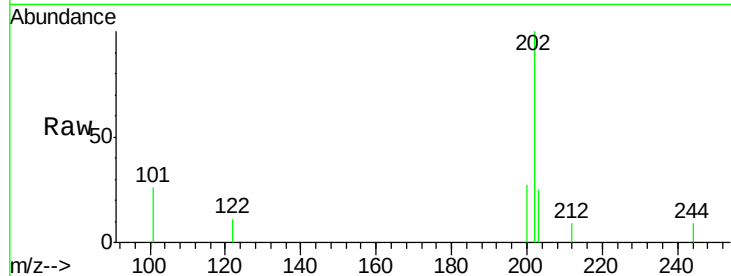




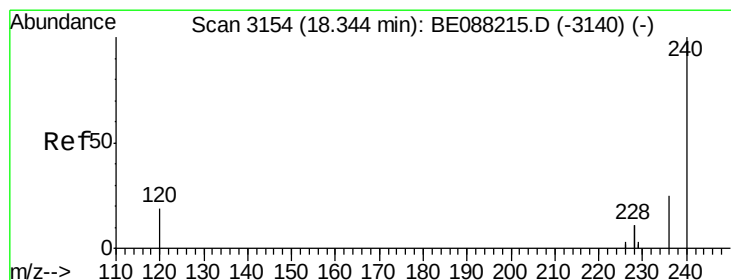
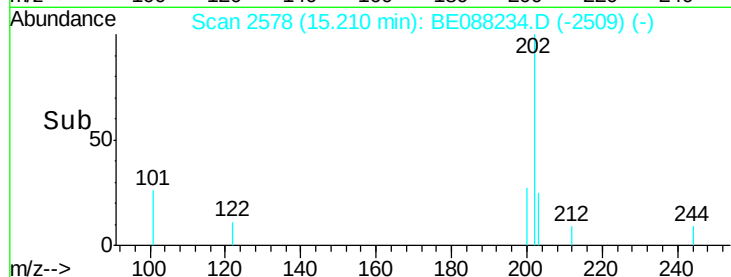
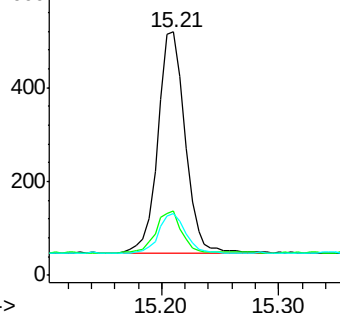
#15
 Fluoranthene
 Concen: 0.04 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088234.D
 Acq: 25 Oct 2014 6:08

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43P-1014

Tgt Ion: 202 Resp: 753
 Ion Ratio Lower Upper
 202 100
 101 17.3 14.4 21.6
 203 17.7 13.4 20.2

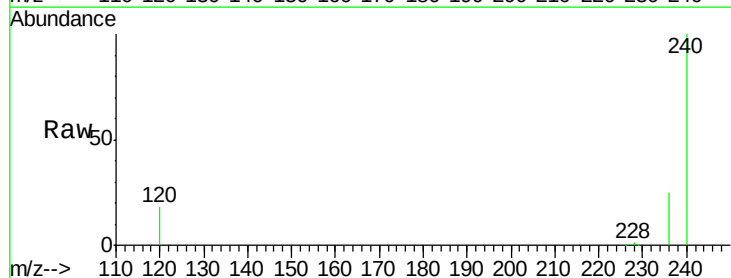


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

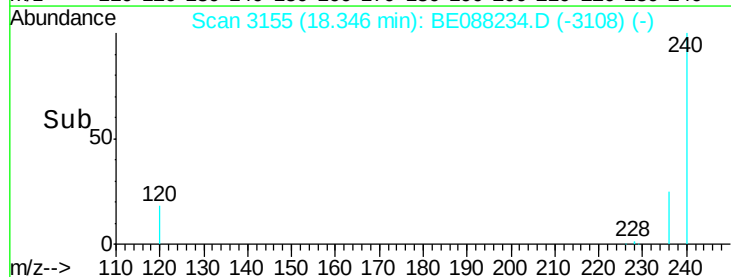
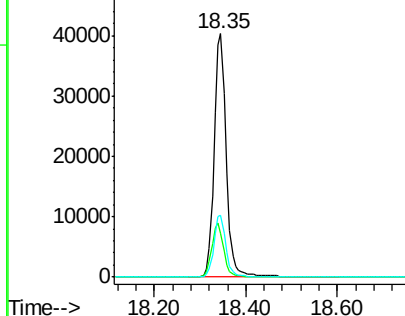


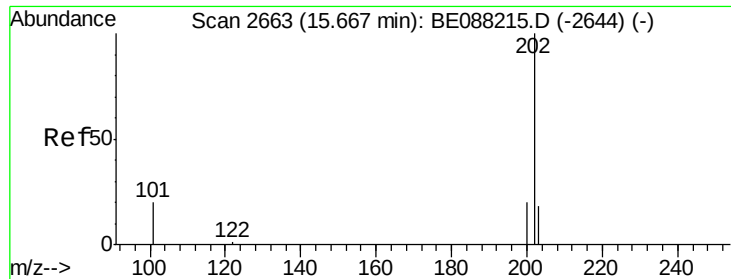
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088234.D
 Acq: 25 Oct 2014 6:08

Tgt Ion: 240 Resp: 73772
 Ion Ratio Lower Upper
 240 100
 120 17.9 15.1 22.7
 236 25.2 20.1 30.1



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

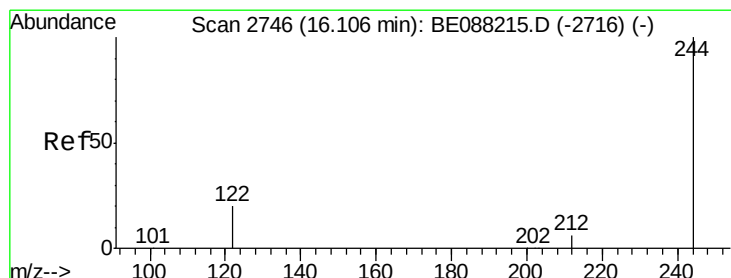
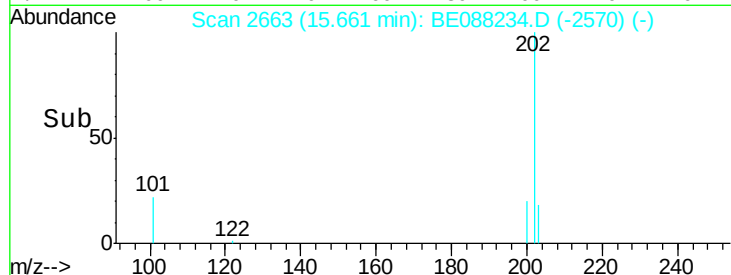
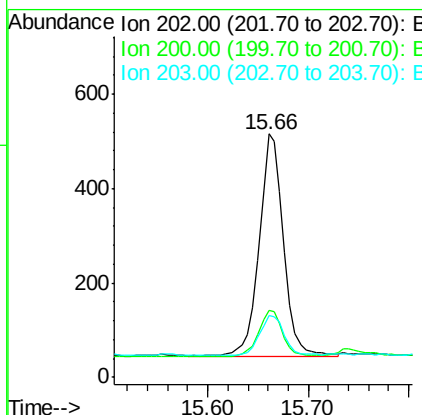
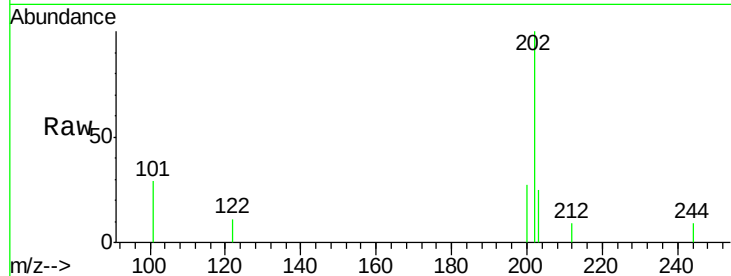




#17
 Pyrene
 Concen: 0.04 ng
 RT: 15.66 min Scan# 2663
 Delta R.T. -0.01 min
 Lab File: BE088234.D
 Acq: 25 Oct 2014 6:08

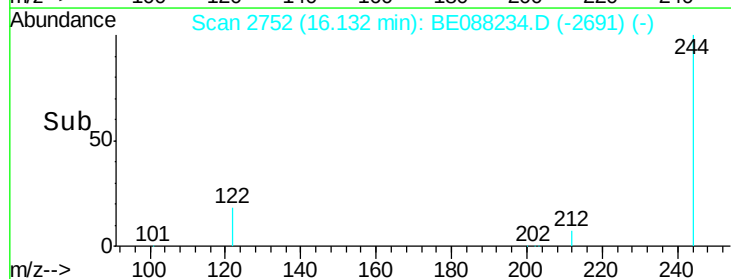
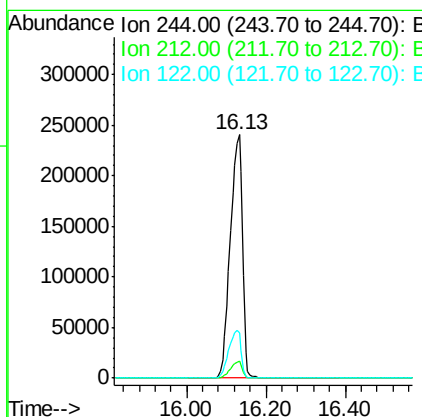
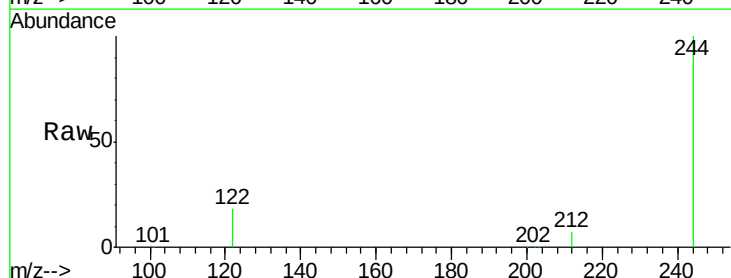
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB43P-1014

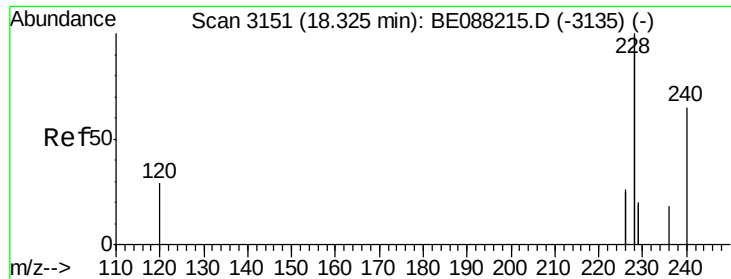
Tgt Ion: 202 Resp: 785
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 18.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 42.45 ng
 RT: 16.13 min Scan# 2752
 Delta R.T. 0.03 min
 Lab File: BE088234.D
 Acq: 25 Oct 2014 6:08

Tgt Ion: 244 Resp: 512918
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 18.3 16.7 25.1





#19

Benzo(a)anthracene

Concen: 0.06 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

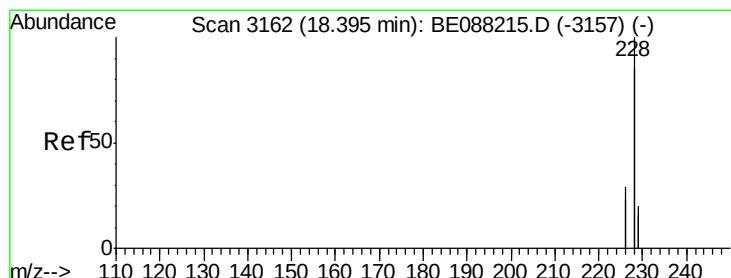
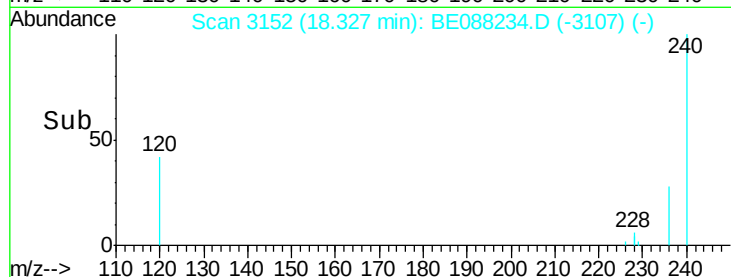
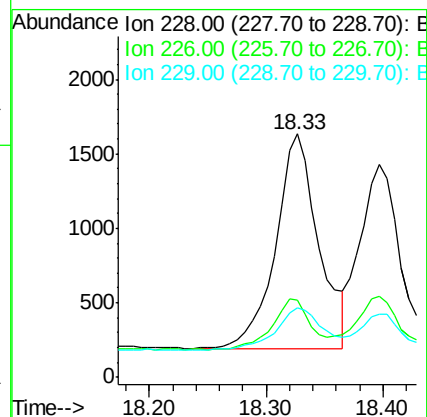
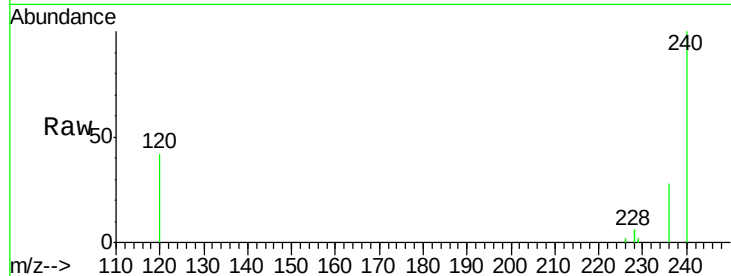
Tgt Ion:228 Resp: 3650

Ion Ratio Lower Upper

228 100

226 31.6 20.5 30.7#

229 28.4 16.1 24.1#



#20

Chrysene

Concen: 0.05 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

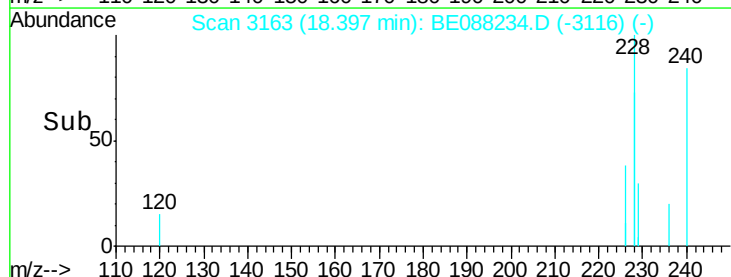
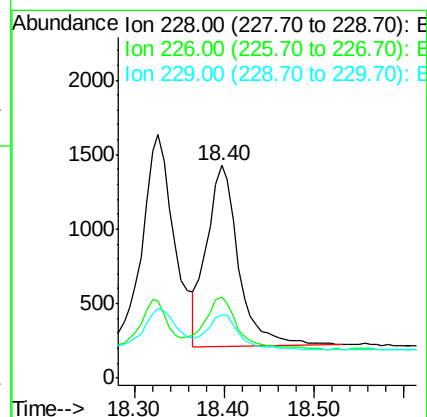
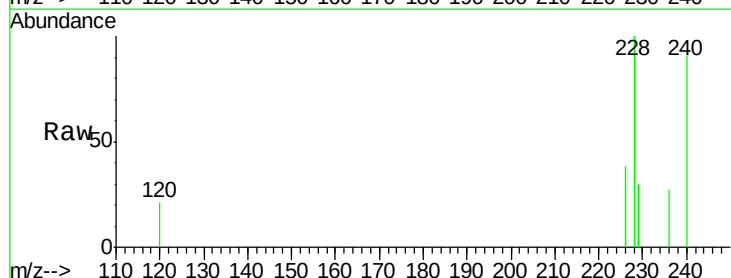
Tgt Ion:228 Resp: 2998

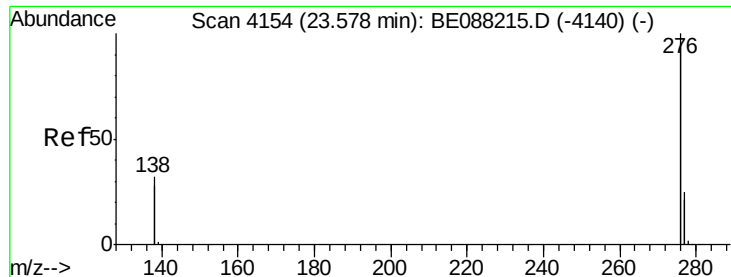
Ion Ratio Lower Upper

228 100

226 38.1 23.3 34.9#

229 30.0 15.6 23.4#





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.27 ng

RT: 23.56 min Scan# 4153

Delta R.T. -0.01 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

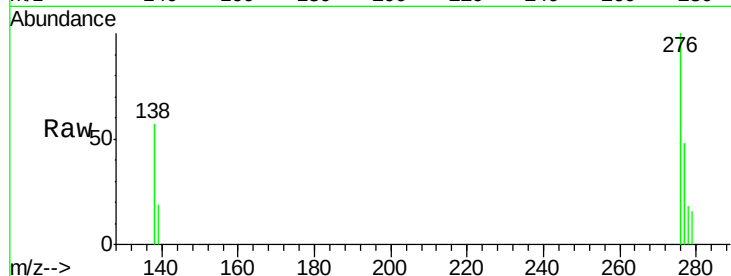
Tgt Ion:276 Resp: 1771

Ion Ratio Lower Upper

276 100

138 29.8 13.9 20.9#

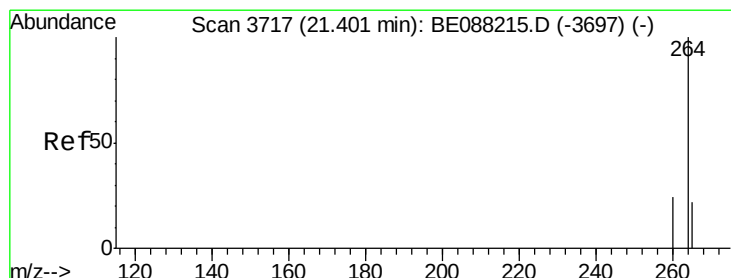
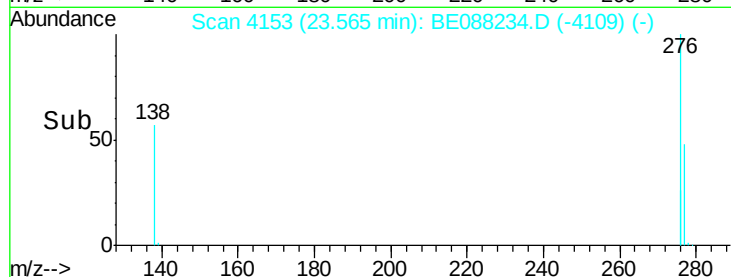
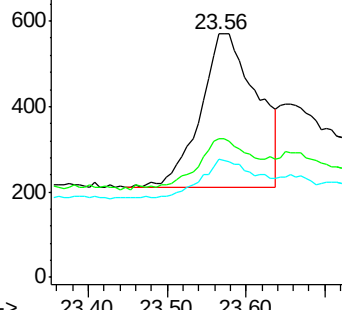
277 24.7 10.7 16.1#



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. -0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

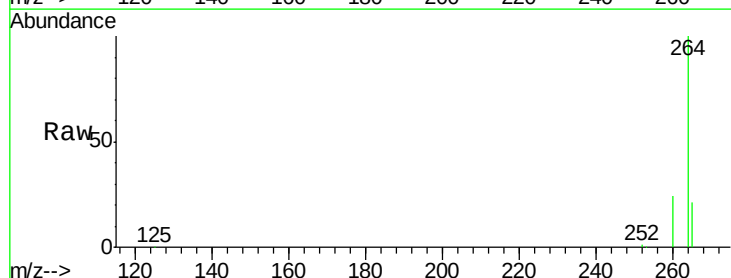
Tgt Ion:264 Resp: 55495

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

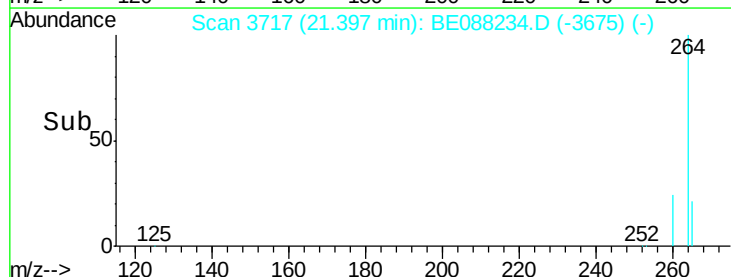
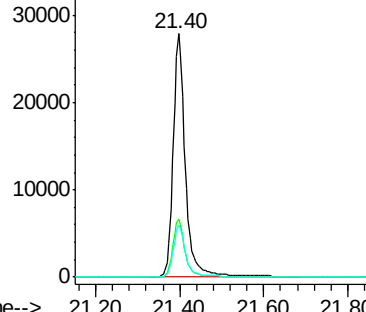
265 21.5 17.4 26.2

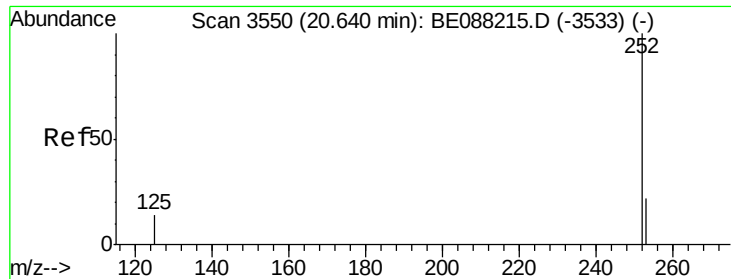


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.22 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014

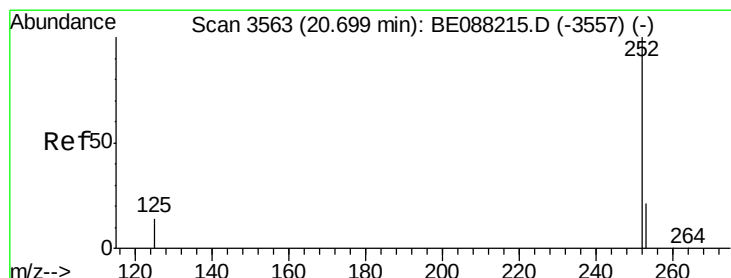
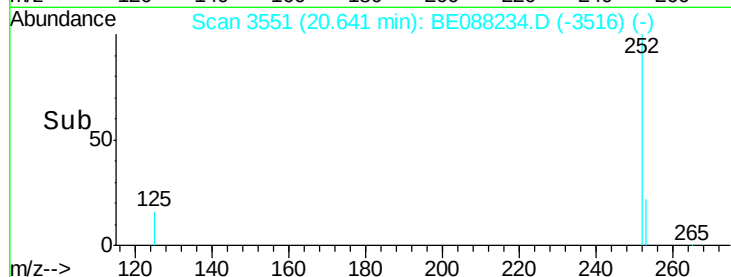
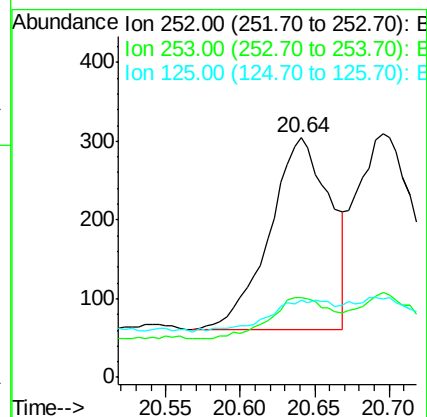
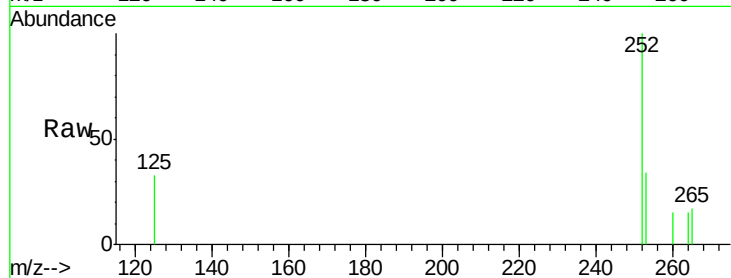
Tgt Ion: 252 Resp: 689

Ion Ratio Lower Upper

252 100

253 33.6 17.9 26.9#

125 32.6 12.2 18.2#



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088234.D

Acq: 25 Oct 2014 6:08

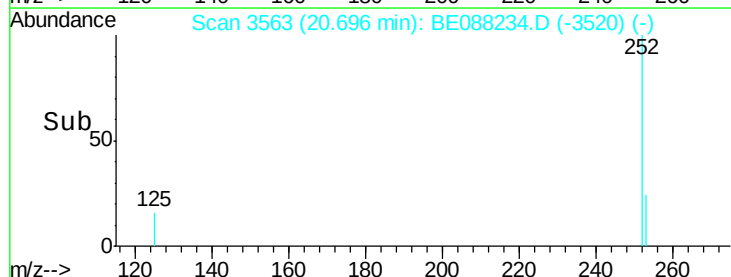
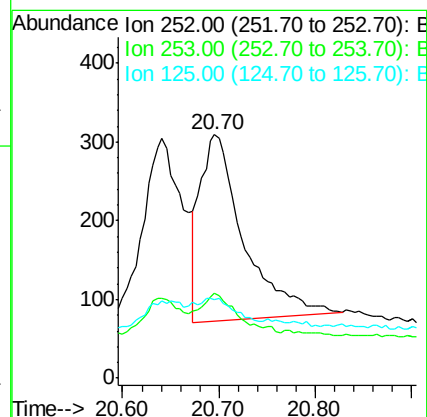
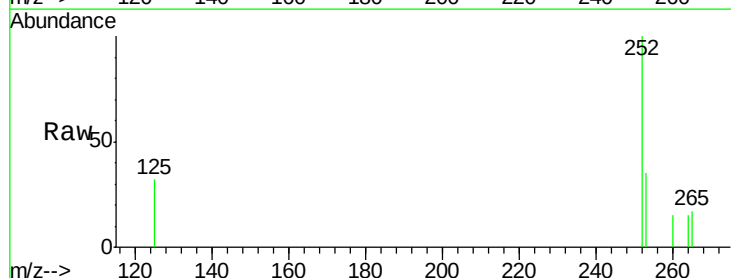
Tgt Ion: 252 Resp: 736

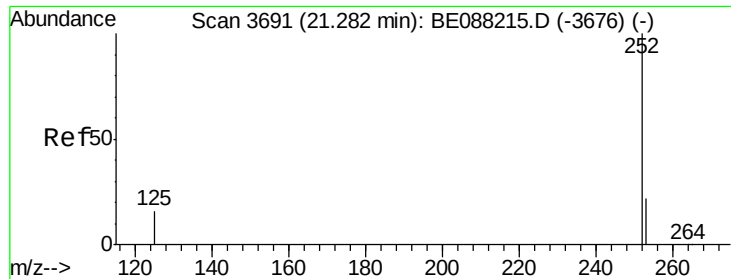
Ion Ratio Lower Upper

252 100

253 35.0 17.6 26.4#

125 32.4 12.1 18.1#

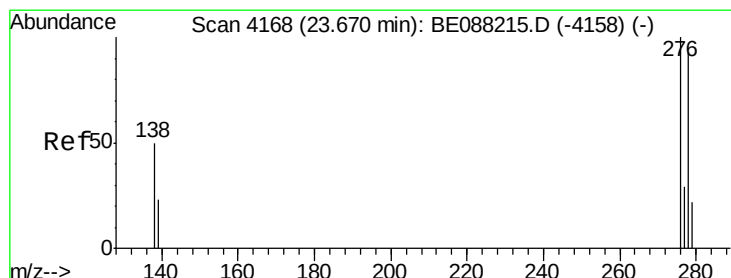
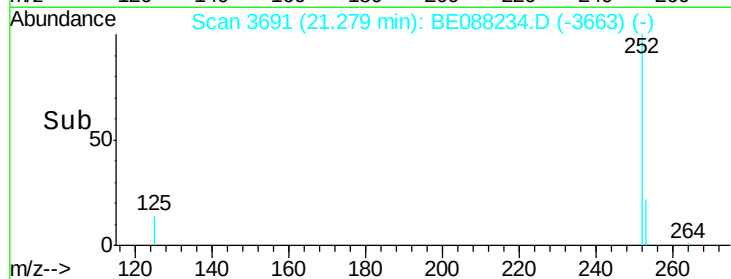
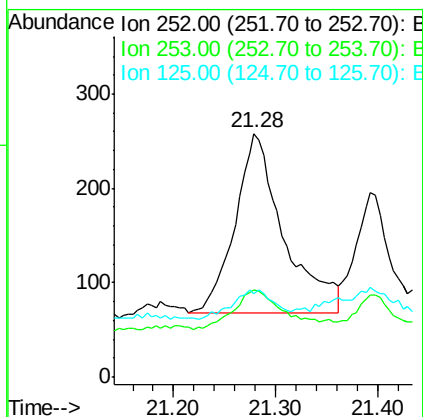
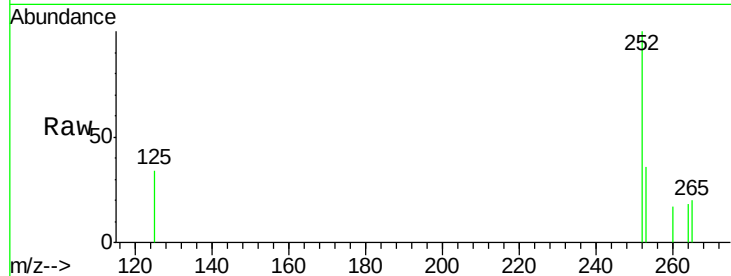




#25
Benzo(a)pyrene
Concen: 0.22 ng
RT: 21.28 min Scan# 3691
Delta R.T. -0.00 min
Lab File: BE088234.D
Acq: 25 Oct 2014 6:08

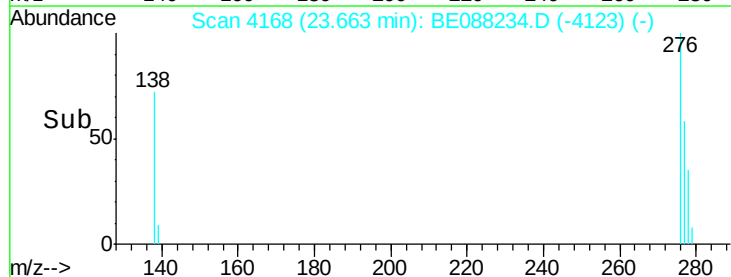
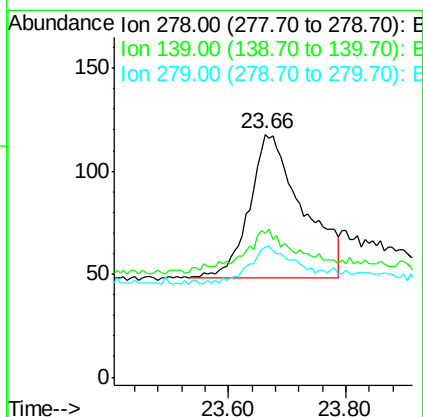
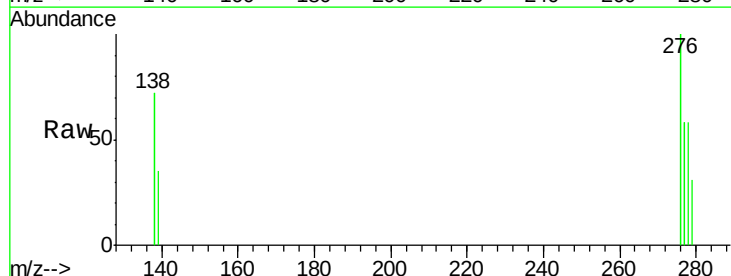
Instrument :
BNA_E
ClientSampleId :
YS19-SB43P-1014

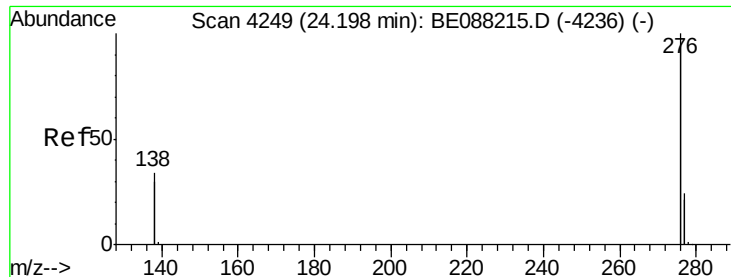
Tgt Ion: 252 Resp: 626
Ion Ratio Lower Upper
252 100
253 36.0 17.8 26.8#
125 34.5 13.5 20.3#



#26
Dibenzo(a,h)anthracene
Concen: 0.25 ng
RT: 23.66 min Scan# 4168
Delta R.T. -0.01 min
Lab File: BE088234.D
Acq: 25 Oct 2014 6:08

Tgt Ion: 278 Resp: 438
Ion Ratio Lower Upper
278 100
139 59.3 22.1 33.1#
279 53.4 20.2 30.2#





#27

Benzo(g,h,i)perylene

Concen: 0.07 ng

RT: 24.20 min Scan# 4250

Delta R.T. -0.00 min

Lab File: BE088234.D

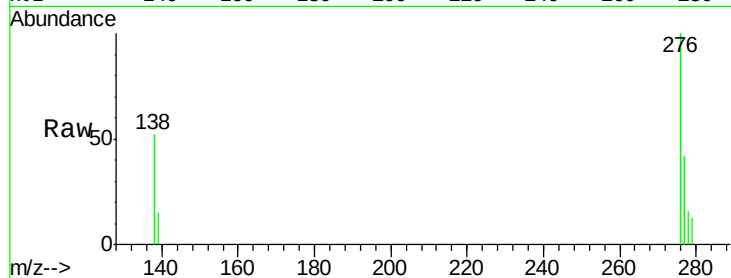
Acq: 25 Oct 2014 6:08

Instrument :

BNA_E

ClientSampleId :

YS19-SB43P-1014



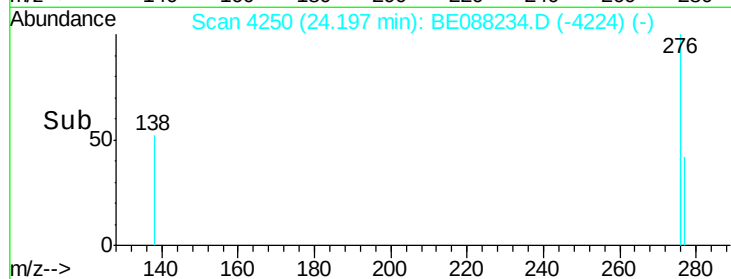
Tgt Ion: 276 Resp: 3141

Ion Ratio Lower Upper

276 100

277 42.5 19.4 29.2#

138 52.4 27.3 40.9#



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

