

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088461.D
 Acq On : 1 Nov 2014 20:57
 Operator : TP/JJ
 Sample : F4368-17RE
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB44-1014RE

Quant Time: Nov 02 04:20:26 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	31290	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	111361	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	51650	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	107776	5.00	ng	0.00
16) Chrysene-d12	18.33	240	66617	5.00	ng	0.01
22) Perylene-d12	21.39	264	64589	5.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.79	82	498391	61.03	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	569098	39.09	ng	0.00
18) Terphenyl-d14	16.11	244	484229	39.57	ng	0.03

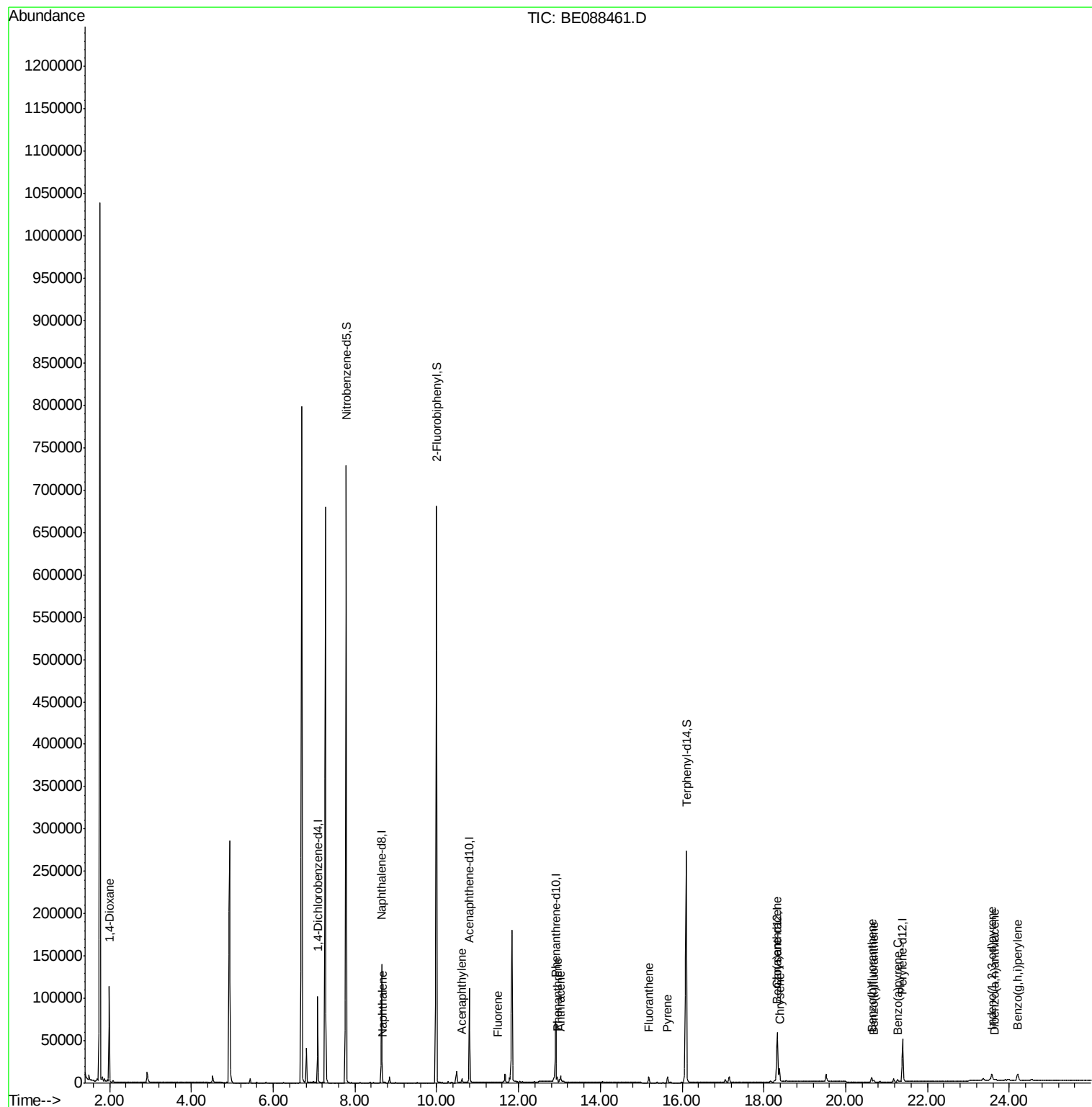
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.99	88	3988	0.97	ng	# 1
5) Naphthalene	8.68	128	546	0.02	ng	# 72
9) Acenaphthylene	10.62	152	5716	0.07	ng	# 94
11) Fluorene	11.50	166	330	0.03	ng	# 75
13) Phenanthrene	12.95	178	10924	0.11	ng	# 55
14) Anthracene	13.03	178	8684	0.11	ng	# 95
15) Fluoranthene	15.18	202	7055	0.44	ng	100
17) Pyrene	15.64	202	6766	0.31	ng	98
19) Benzo(a)anthracene	18.31	228	12450	0.20	ng	# 88
20) Chrysene	18.38	228	22939	0.37	ng	# 93
21) Indeno(1,2,3-cd)pyrene	23.57	276	13216	0.23	ng	# 84
23) Benzo(b)fluoranthene	20.63	252	8802	0.62	ng	# 80
24) Benzo(k)fluoranthene	20.69	252	2811	0.18	ng	# 58
25) Benzo(a)pyrene	21.27	252	3517	0.26	ng	# 61
26) Dibenzo(a,h)anthracene	23.66	278	680	0.05	ng	# 1
27) Benzo(g,h,i)perylene	24.20	276	13745	0.24	ng	# 77

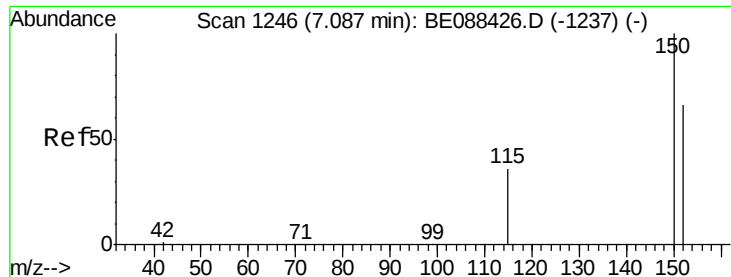
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

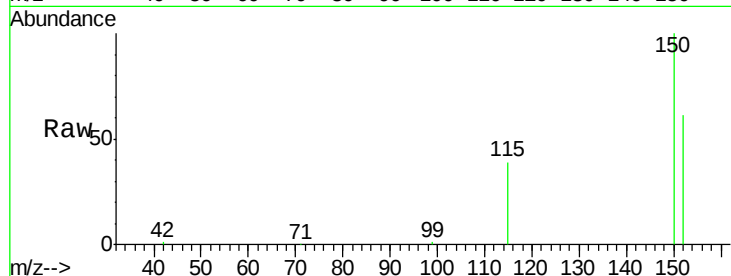
Tgt Ion:152 Resp: 31290

Ion Ratio Lower Upper

152 100

150 163.7 121.8 182.8

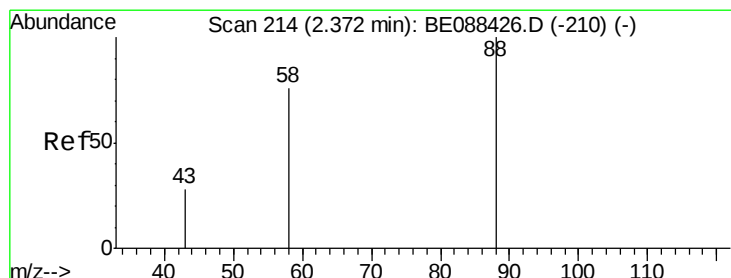
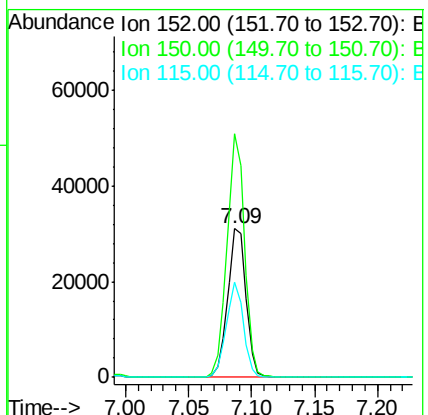
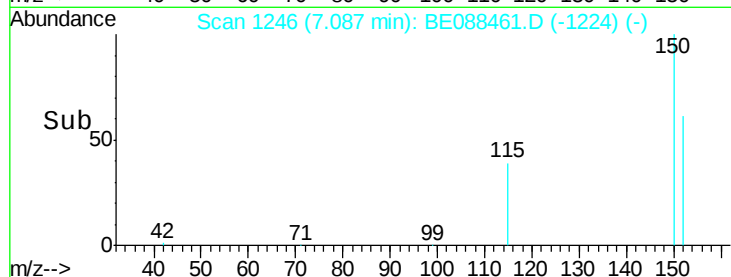
115 63.7 43.9 65.9



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: 0.97 ng

RT: 1.99 min Scan# 131

Delta R.T. -0.38 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

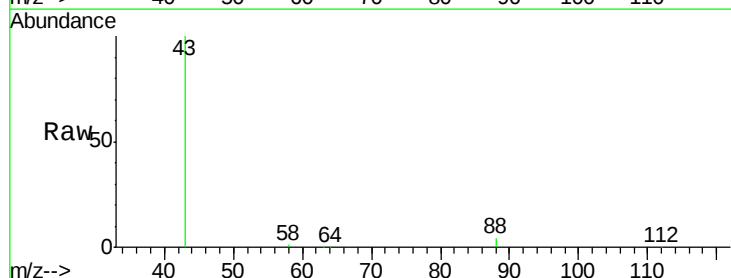
Tgt Ion: 88 Resp: 3988

Ion Ratio Lower Upper

88 100

58 25.3 59.1 88.7#

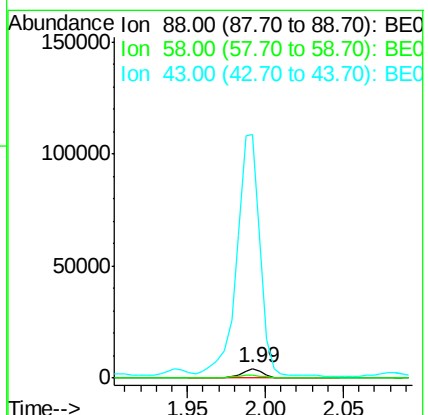
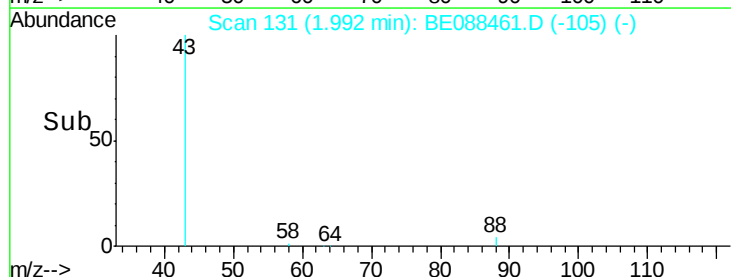
43 2782.2 21.9 32.9#

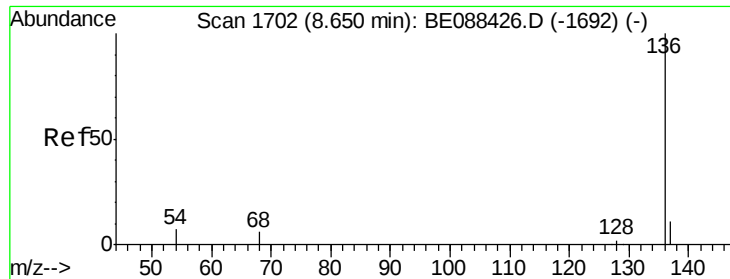


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

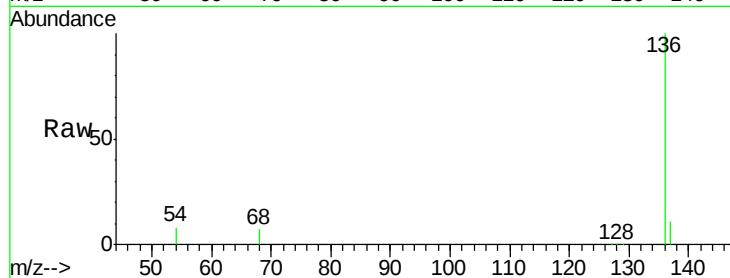




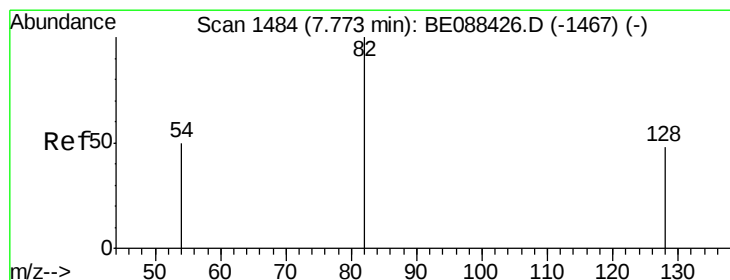
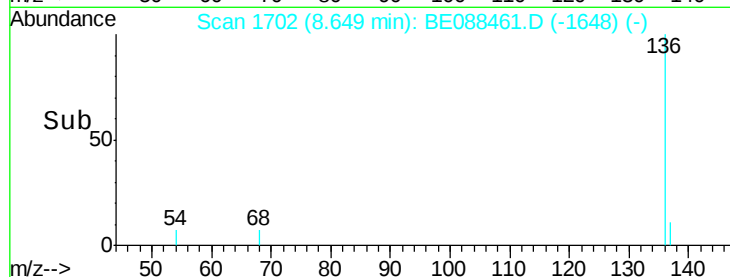
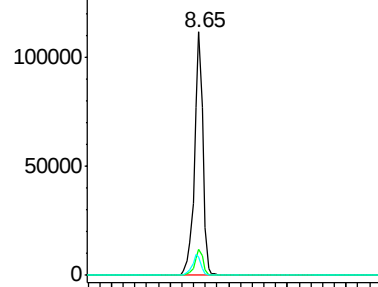
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088461.D
Acq: 1 Nov 2014 20:57

Instrument :
BNA_E
ClientSampleId :
YS19-SB44-1014RE

Tgt Ion: 136 Resp: 111361
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 7.5 5.3 7.9

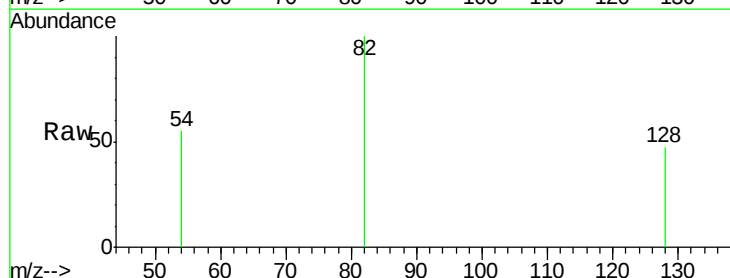


Abundance Ion 136.00 (135.70 to 136.70): BE088426.D (-1692) (-)
Ion 137.00 (136.70 to 137.70): BE088426.D (-1692) (-)
Ion 54.00 (53.70 to 54.70): BE088426.D (-1692) (-)

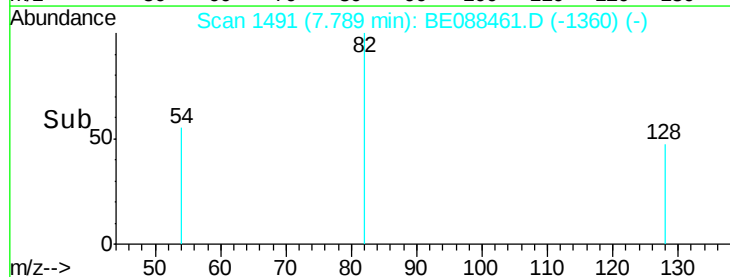
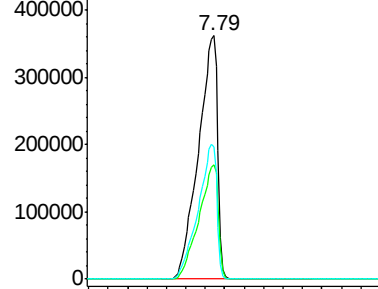


#4
Nitrobenzene-d5
Concen: 61.03 ng
RT: 7.79 min Scan# 1491
Delta R.T. 0.02 min
Lab File: BE088461.D
Acq: 1 Nov 2014 20:57

Tgt Ion: 82 Resp: 498391
Ion Ratio Lower Upper
82 100
128 46.8 38.4 57.6
54 54.5 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE088426.D (-1467) (-)
Ion 128.00 (127.70 to 128.70): BE088426.D (-1467) (-)
Ion 54.00 (53.70 to 54.70): BE088426.D (-1467) (-)





#5

Naphthalene

Concen: 0.02 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

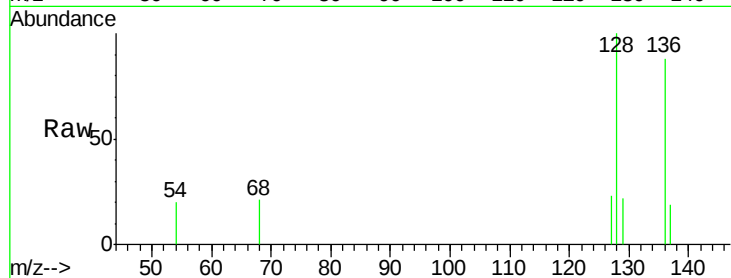
Tgt Ion:128 Resp: 546

Ion Ratio Lower Upper

128 100

129 21.9 8.6 12.8#

127 23.3 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

8.68

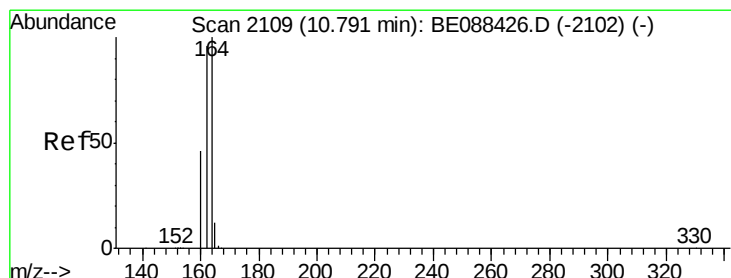
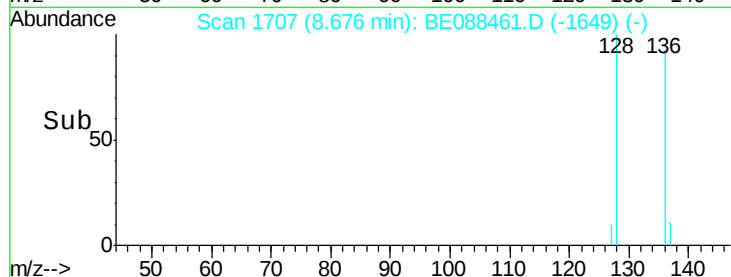
600

400

200

0

Time--> 8.60 8.65 8.70



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

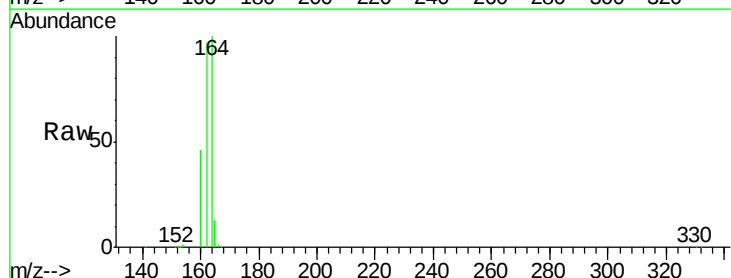
Tgt Ion:164 Resp: 51650

Ion Ratio Lower Upper

164 100

162 96.8 77.0 115.4

160 46.1 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

10.79

60000

50000

40000

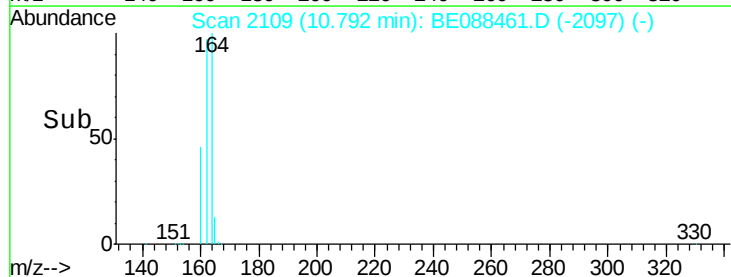
30000

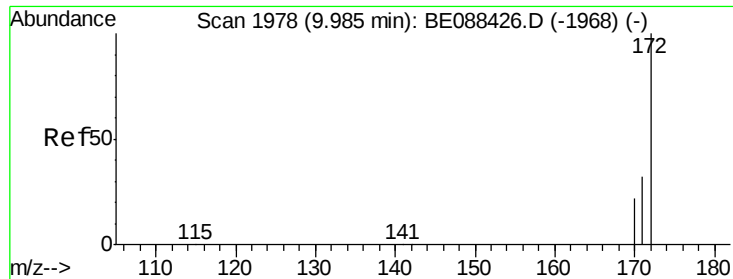
20000

10000

0

Time--> 10.70 10.80 10.90





#8

2-Fluorobiphenyl

Concen: 39.09 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

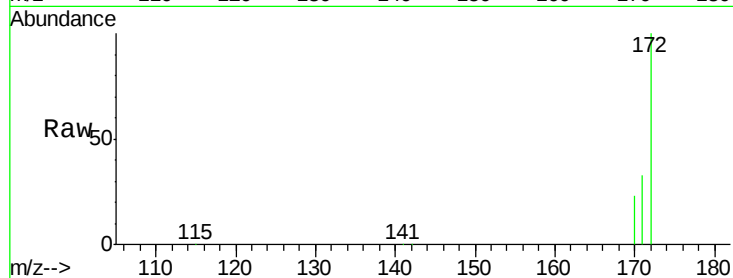
Tgt Ion:172 Resp: 569098

Ion Ratio Lower Upper

172 100

171 33.2 26.0 39.0

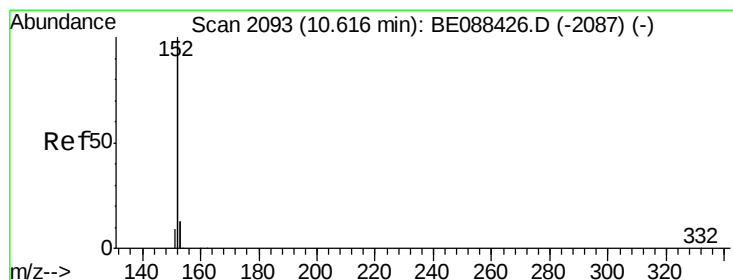
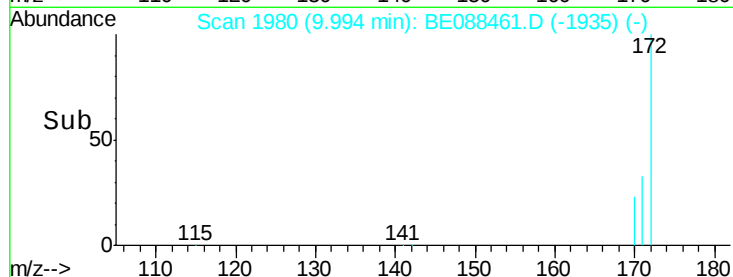
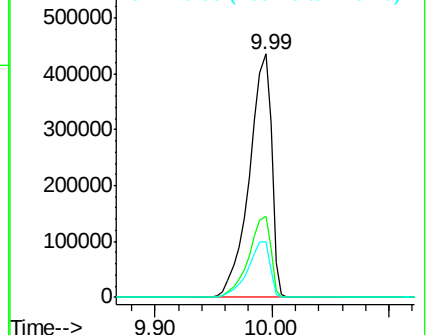
170 22.6 17.6 26.4



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: 0.07 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

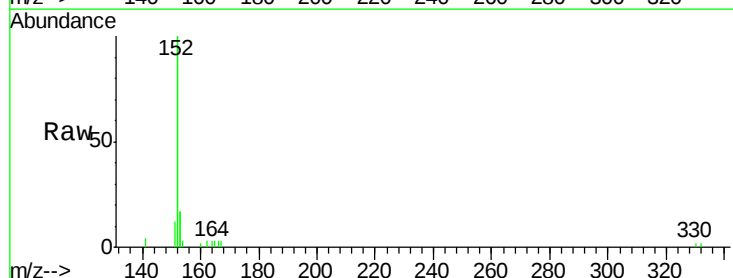
Tgt Ion:152 Resp: 5716

Ion Ratio Lower Upper

152 100

151 3.7 4.4 6.6#

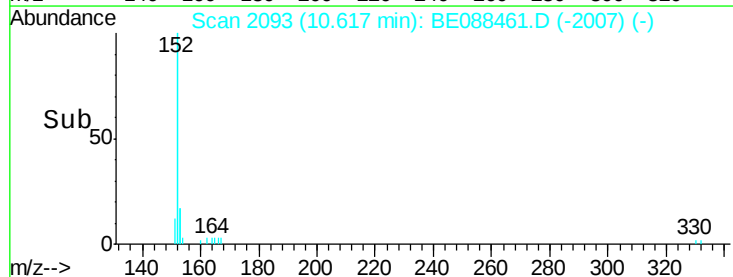
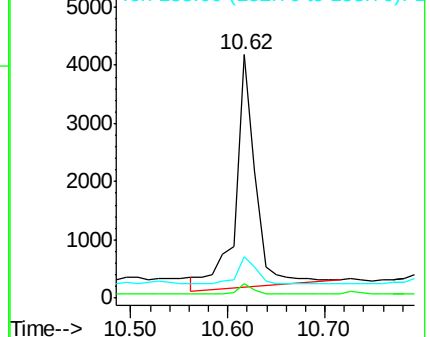
153 15.7 10.5 15.7

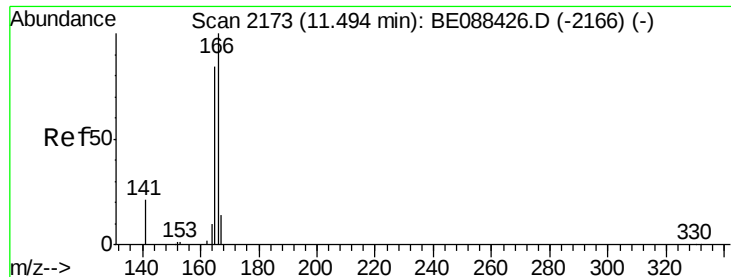


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Fluorene

Concen: 0.03 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

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ClientSampleId :

YS19-SB44-1014RE

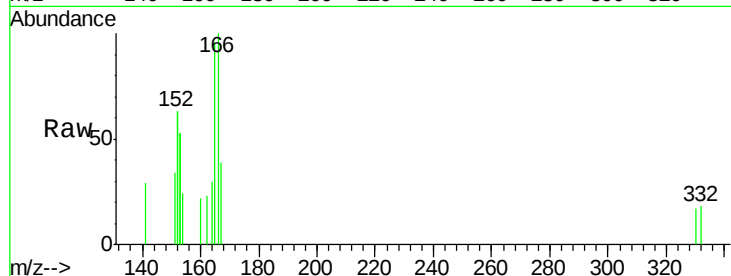
Tgt Ion:166 Resp: 330

Ion Ratio Lower Upper

166 100

165 111.2 71.3 106.9#

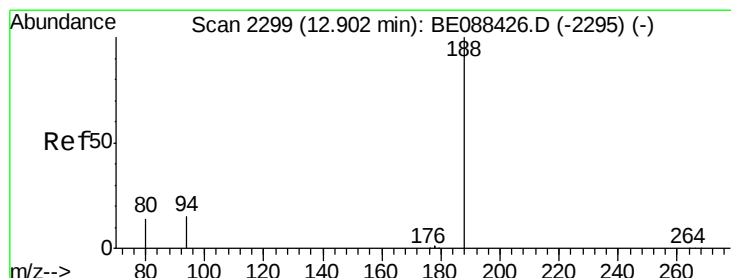
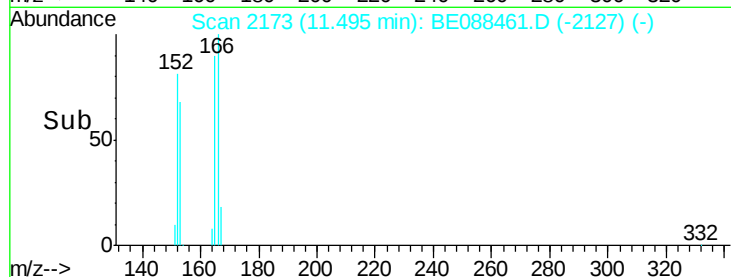
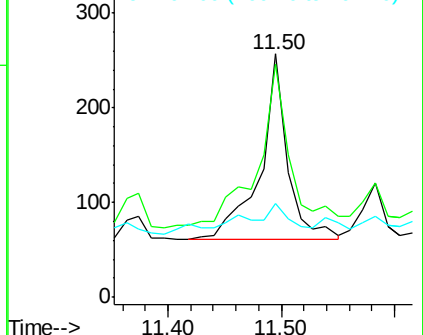
167 0.0 10.7 16.1#



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: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

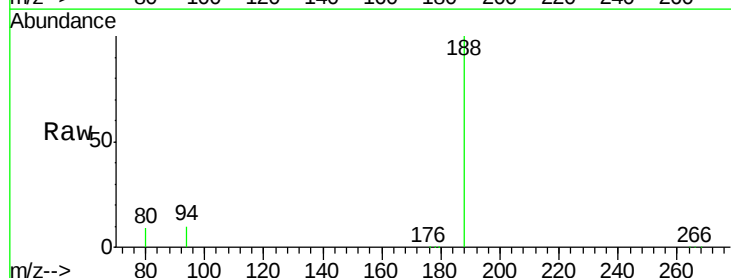
Tgt Ion:188 Resp: 107776

Ion Ratio Lower Upper

188 100

94 10.2 11.8 17.8#

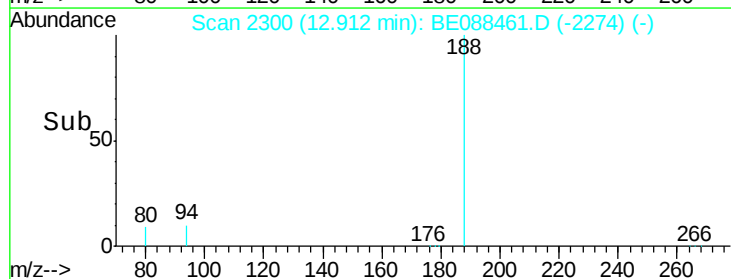
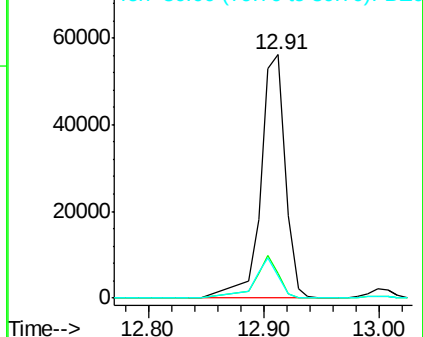
80 8.9 10.9 16.3#

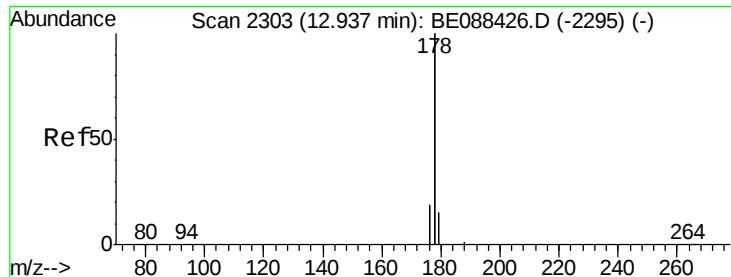


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.11 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

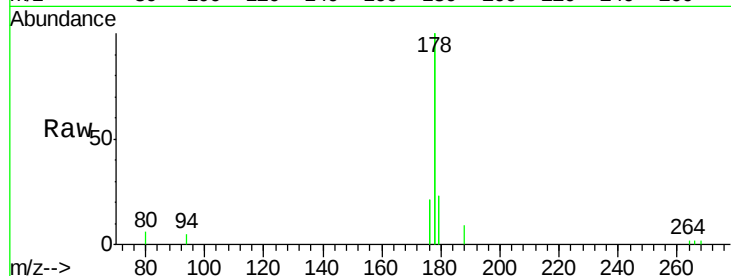
Tgt Ion:178 Resp: 10924

Ion Ratio Lower Upper

178 100

176 33.0 15.4 23.2#

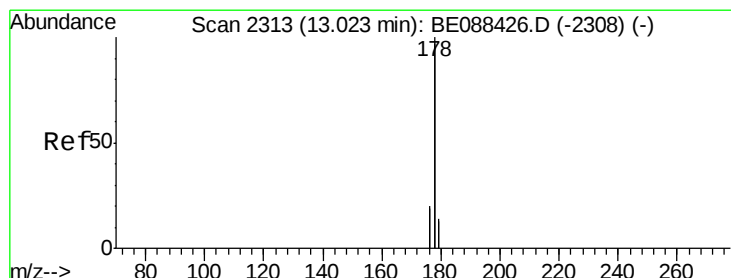
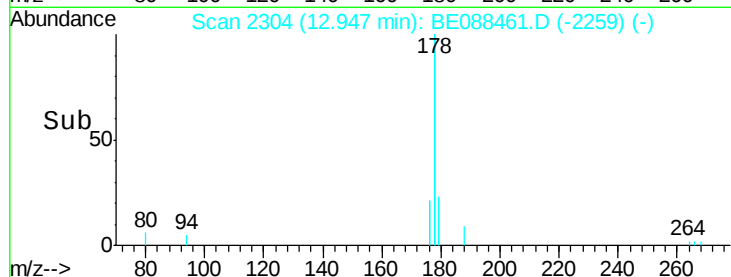
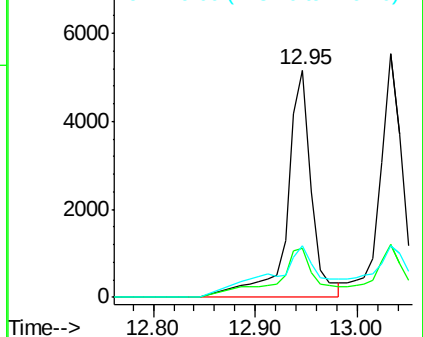
179 42.6 12.8 19.2#



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: 0.11 ng

RT: 13.03 min Scan# 2314

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

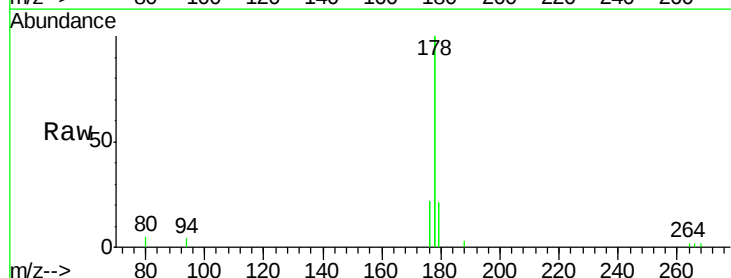
Tgt Ion:178 Resp: 8684

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.4

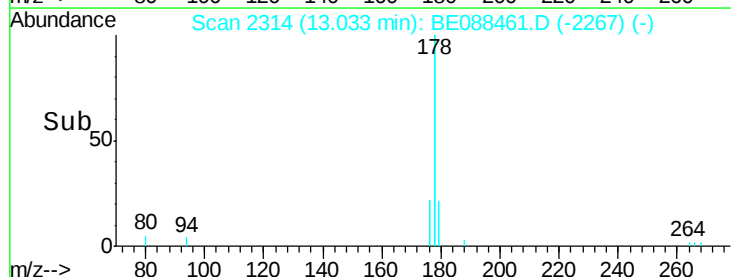
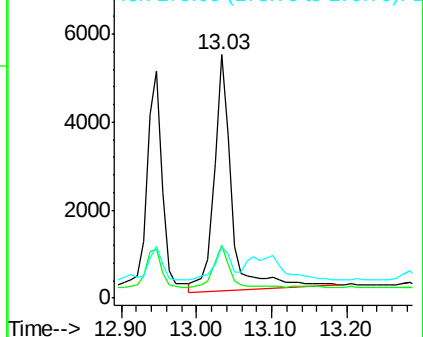
179 11.5 12.5 18.7#

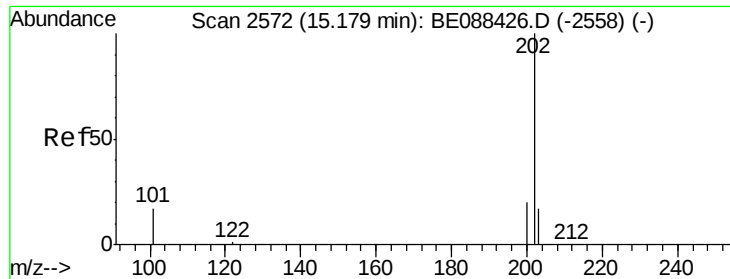


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.44 ng

RT: 15.18 min Scan# 2573

Delta R.T. 0.00 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

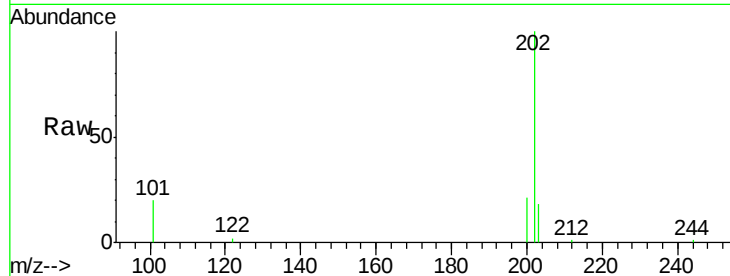
Instrument :

BNA_E

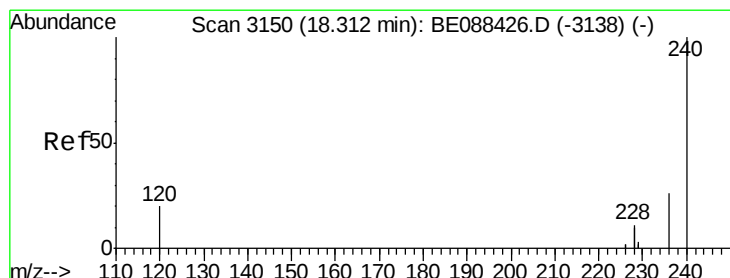
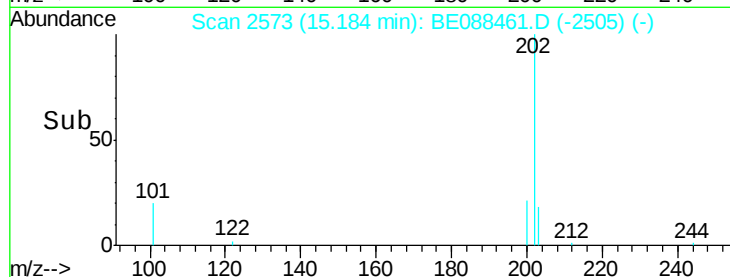
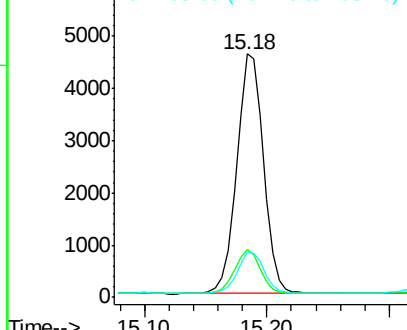
ClientSampleId :

YS19-SB44-1014RE

Tgt Ion:	202	Resp:	7055
Ion	Ratio	Lower	Upper
202	100		
101	17.7	14.3	21.5
203	16.9	13.6	20.4



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



#16

Chrysene-d12

Concen: 5.00 ng

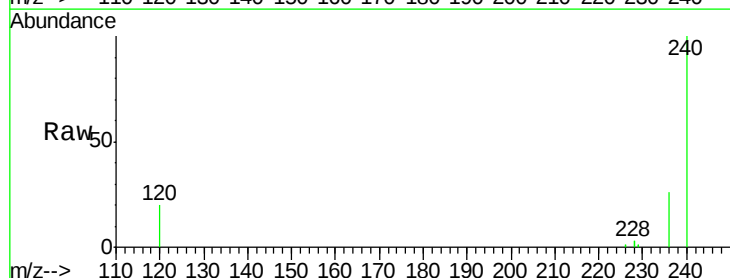
RT: 18.33 min Scan# 3152

Delta R.T. 0.01 min

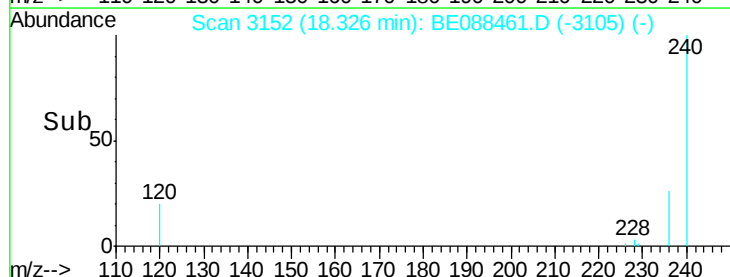
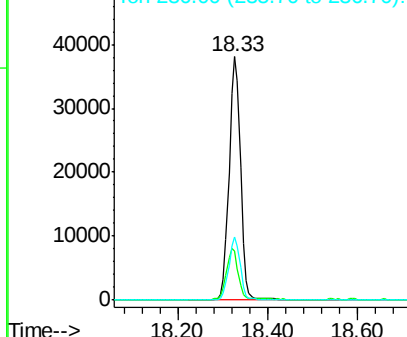
Lab File: BE088461.D

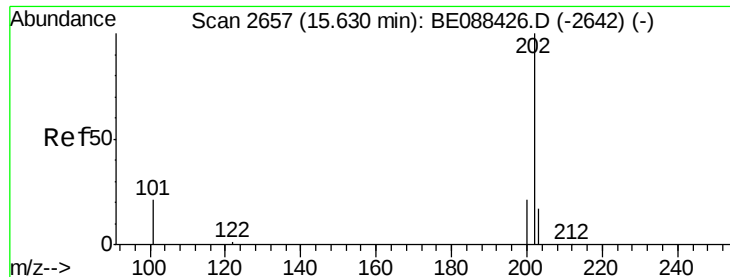
Acq: 1 Nov 2014 20:57

Tgt Ion:	240	Resp:	66617
Ion	Ratio	Lower	Upper
240	100		
120	20.4	16.4	24.6
236	26.2	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

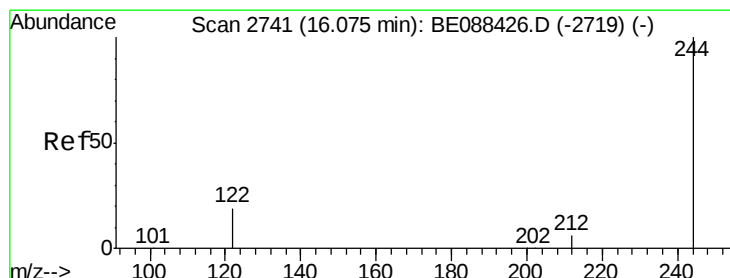
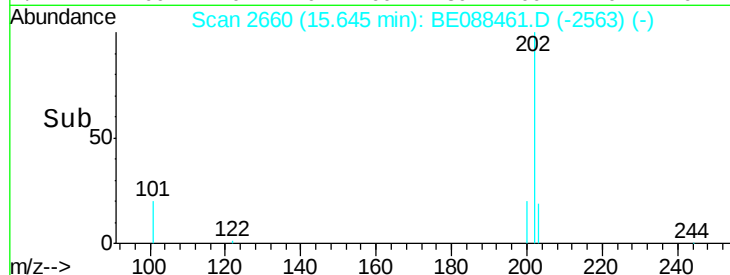
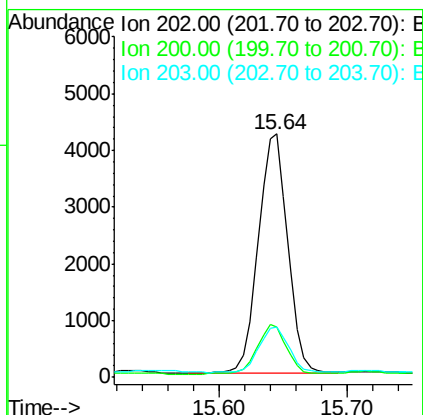
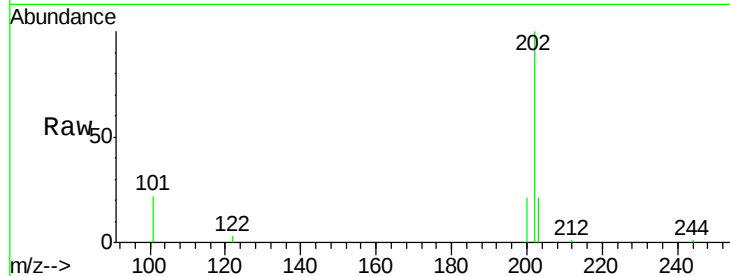




#17
 Pyrene
 Concen: 0.31 ng
 RT: 15.64 min Scan# 2660
 Delta R.T. 0.02 min
 Lab File: BE088461.D
 Acq: 1 Nov 2014 20:57

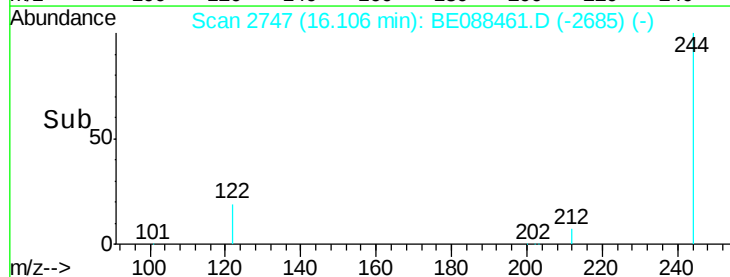
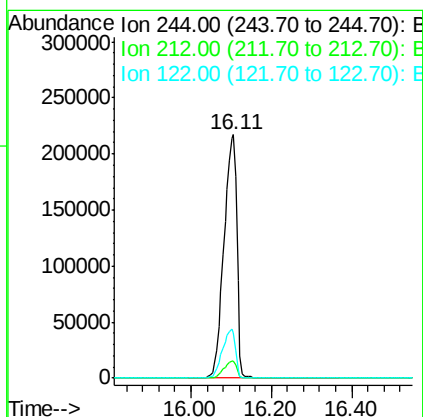
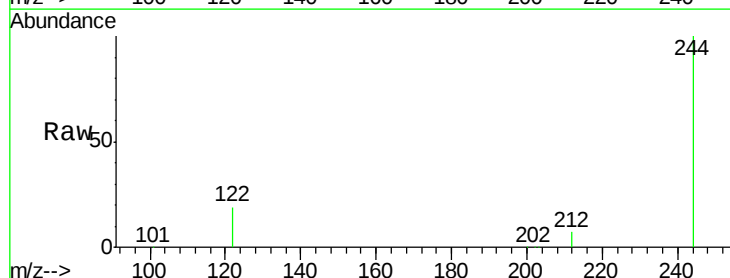
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB44-1014RE

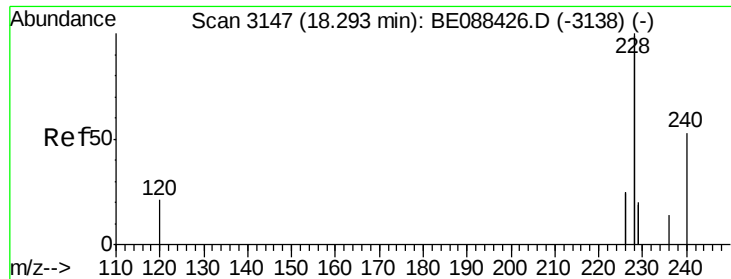
Tgt Ion: 202 Resp: 6766
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 19.1 13.8 20.8



#18
 Terphenyl-d14
 Concen: 39.57 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.03 min
 Lab File: BE088461.D
 Acq: 1 Nov 2014 20:57

Tgt Ion: 244 Resp: 484229
 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: 0.20 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

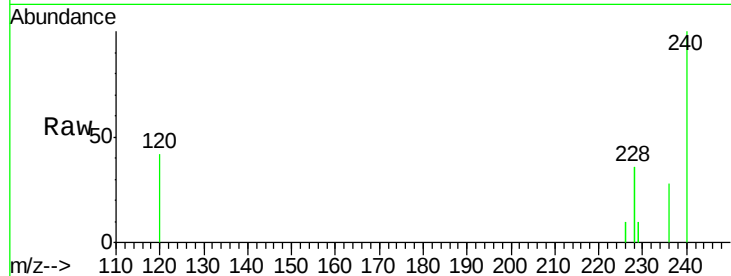
Tgt Ion:228 Resp: 12450

Ion Ratio Lower Upper

228 100

226 29.2 19.8 29.6

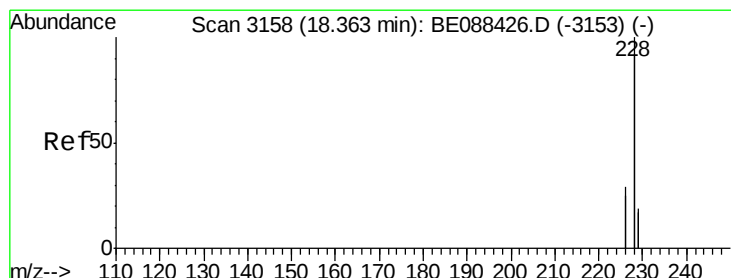
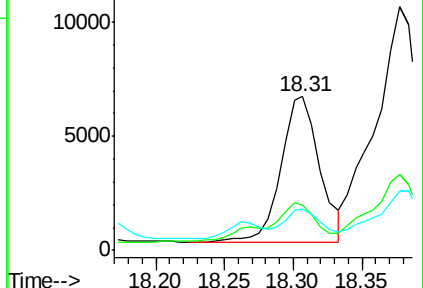
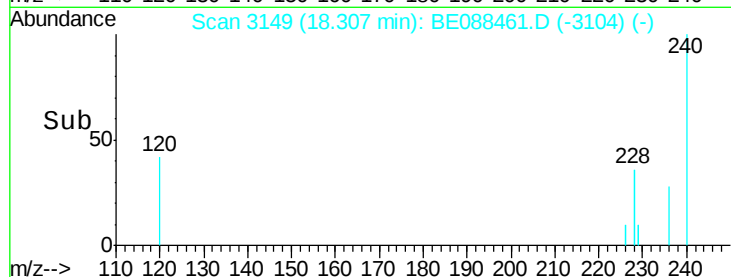
229 27.1 16.0 24.0#



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: 0.37 ng

RT: 18.38 min Scan# 3160

Delta R.T. 0.01 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

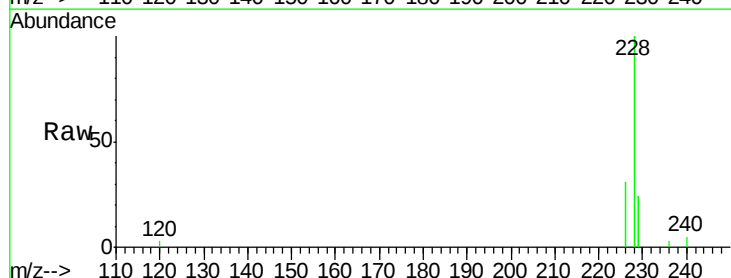
Tgt Ion:228 Resp: 22939

Ion Ratio Lower Upper

228 100

226 31.4 23.6 35.4

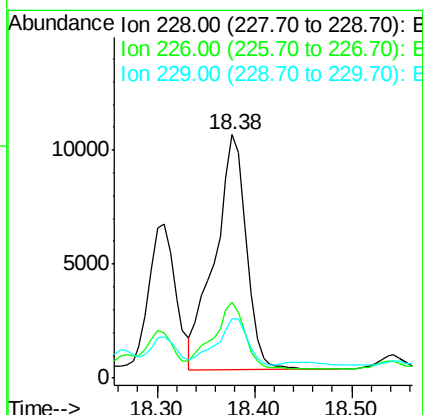
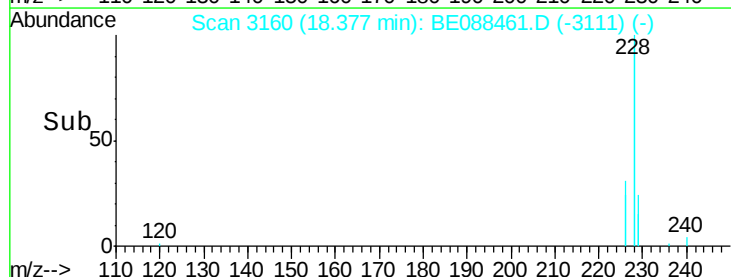
229 24.3 15.4 23.2#

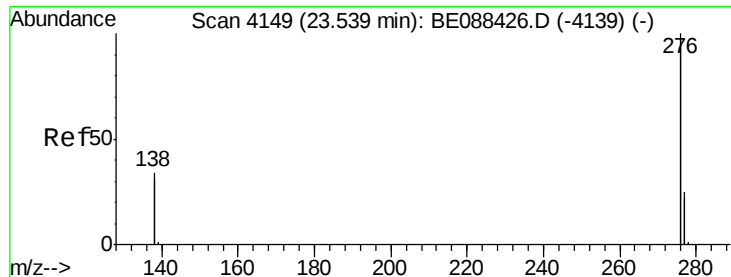


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.23 ng

RT: 23.57 min Scan# 4154

Delta R.T. 0.03 min

Lab File: BE088461.D

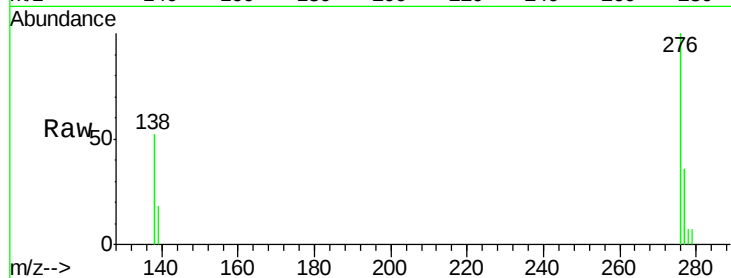
Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE



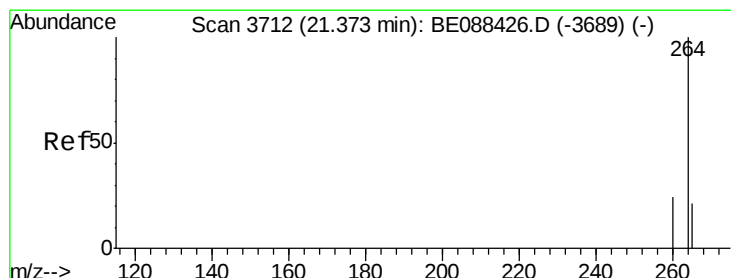
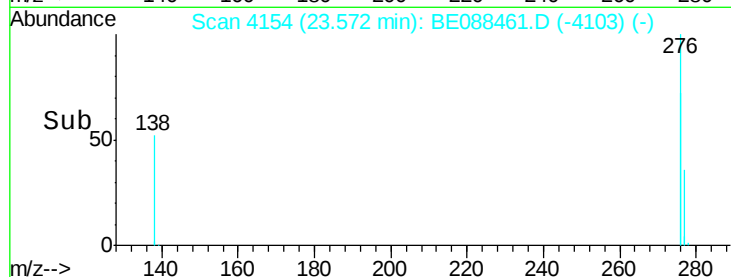
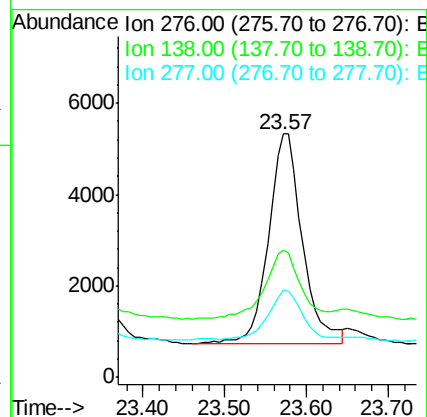
Tgt Ion:276 Resp: 13216

Ion Ratio Lower Upper

276 100

138 35.0 20.2 30.2#

277 23.0 14.8 22.2#



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.39 min Scan# 3716

Delta R.T. 0.02 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

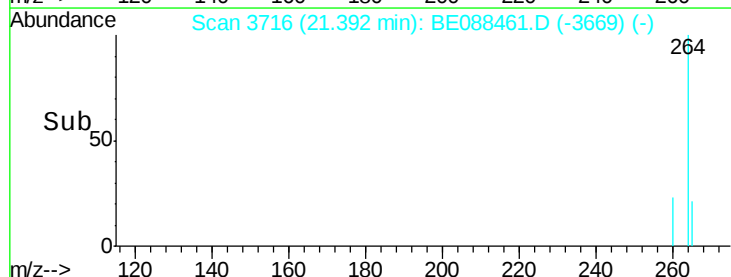
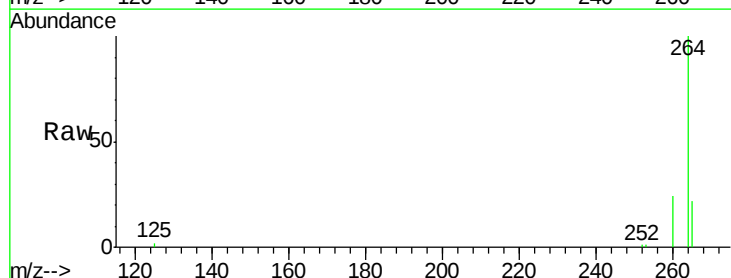
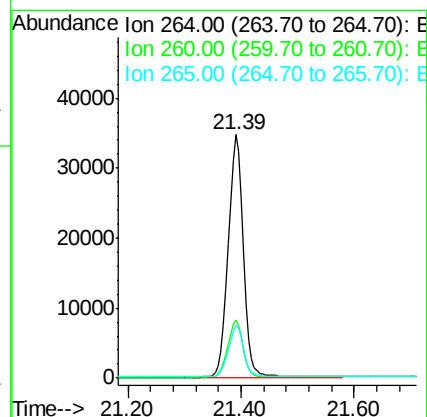
Tgt Ion:264 Resp: 64589

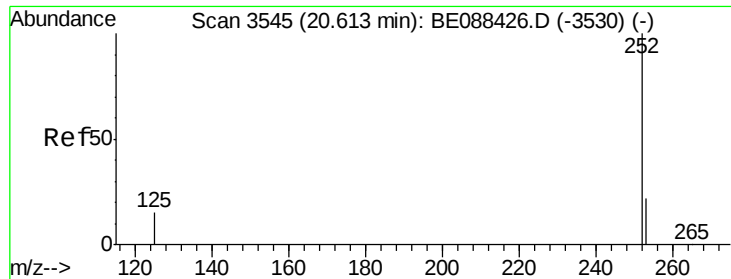
Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

265 21.9 17.2 25.8

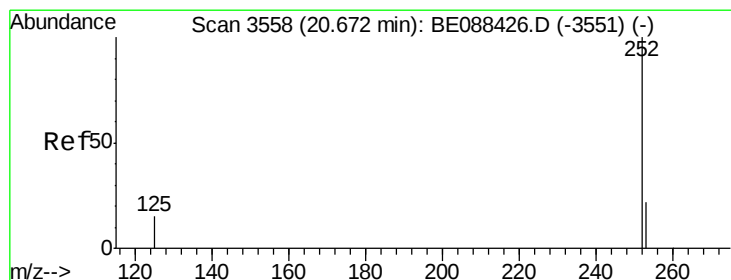
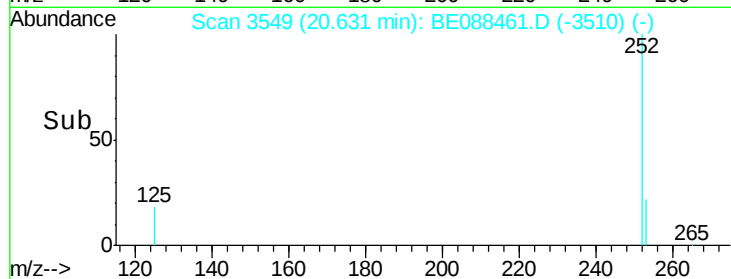
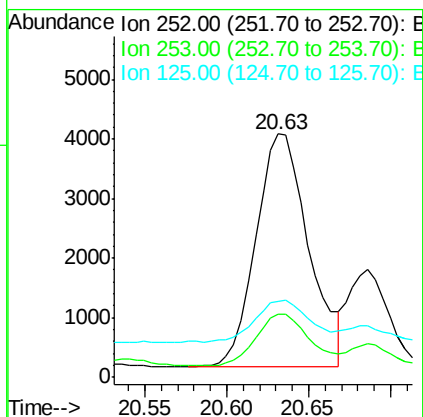
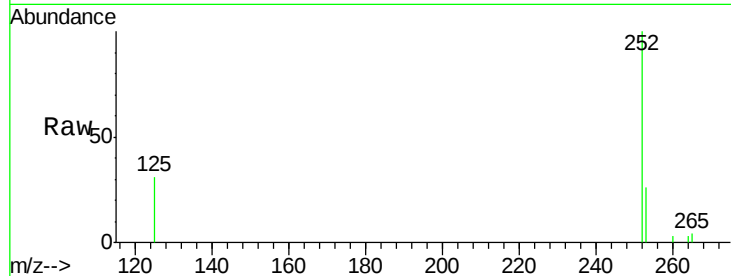




#23
Benzo(b)fluoranthene
Concen: 0.62 ng
RT: 20.63 min Scan# 3549
Delta R.T. 0.02 min
Lab File: BE088461.D
Acq: 1 Nov 2014 20:57

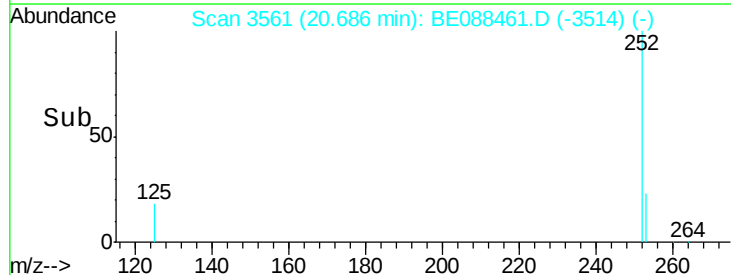
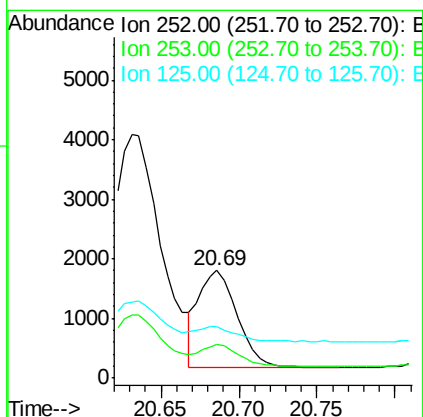
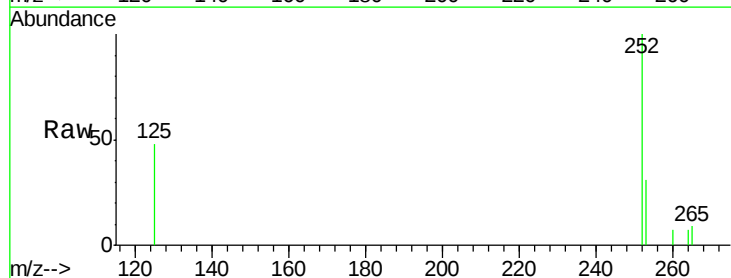
Instrument :
BNA_E
ClientSampleId :
YS19-SB44-1014RE

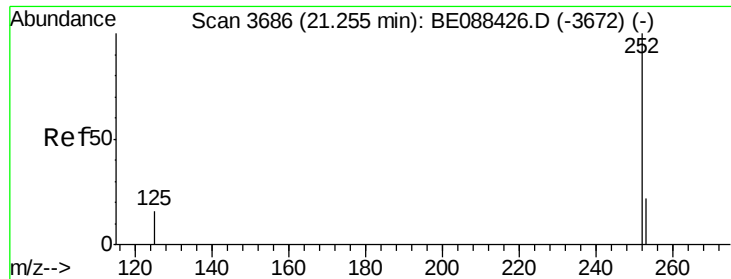
Tgt Ion:252 Resp: 8802
Ion Ratio Lower Upper
252 100
253 26.0 17.8 26.8
125 31.4 12.3 18.5#



#24
Benzo(k)fluoranthene
Concen: 0.18 ng
RT: 20.69 min Scan# 3561
Delta R.T. 0.01 min
Lab File: BE088461.D
Acq: 1 Nov 2014 20:57

Tgt Ion:252 Resp: 2811
Ion Ratio Lower Upper
252 100
253 31.0 17.8 26.8#
125 47.6 12.2 18.4#





#25

Benzo(a)pyrene

Concen: 0.26 ng

RT: 21.27 min Scan# 3690

Delta R.T. 0.02 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE

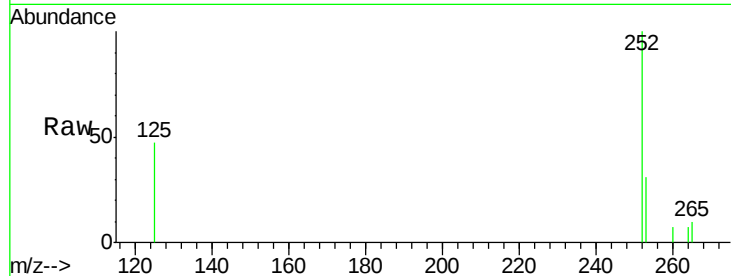
Tgt Ion: 252 Resp: 3517

Ion Ratio Lower Upper

252 100

253 31.3 18.2 27.4#

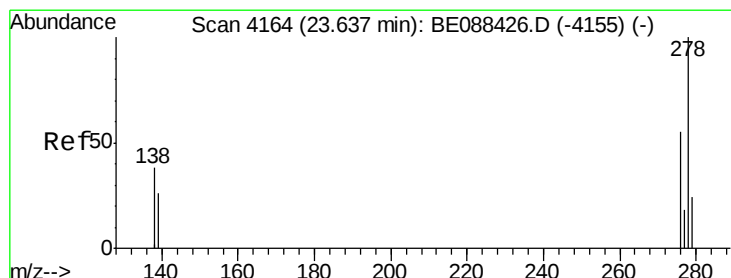
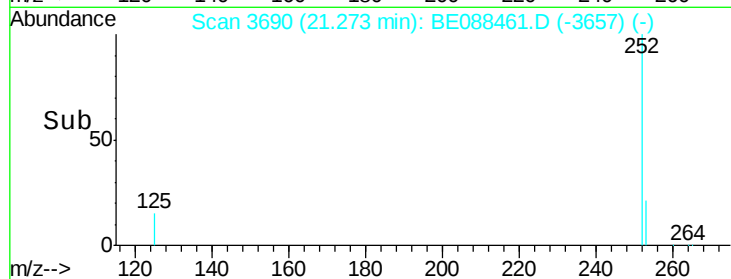
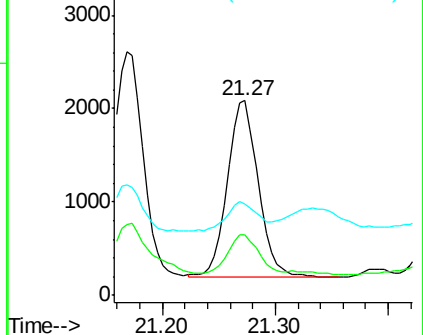
125 46.8 13.7 20.5#



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: 0.05 ng

RT: 23.66 min Scan# 4167

Delta R.T. 0.02 min

Lab File: BE088461.D

Acq: 1 Nov 2014 20:57

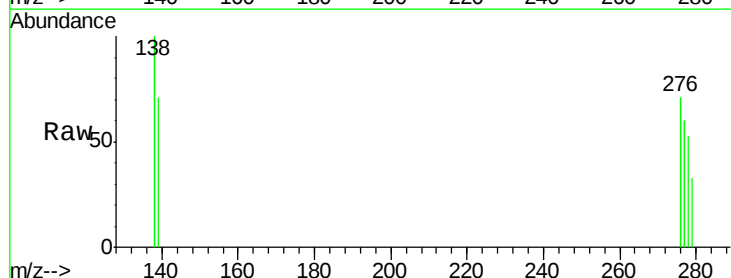
Tgt Ion: 278 Resp: 680

Ion Ratio Lower Upper

278 100

139 132.7 22.1 33.1#

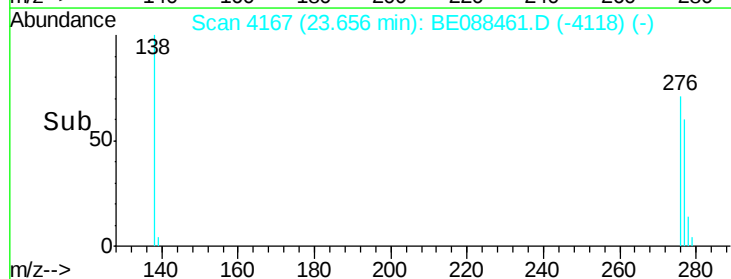
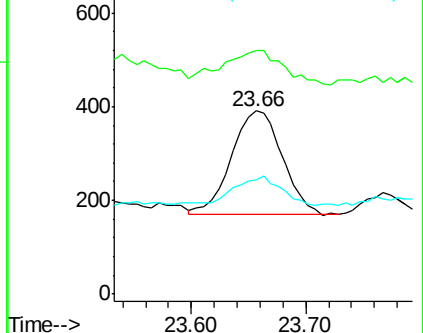
279 62.7 19.7 29.5#

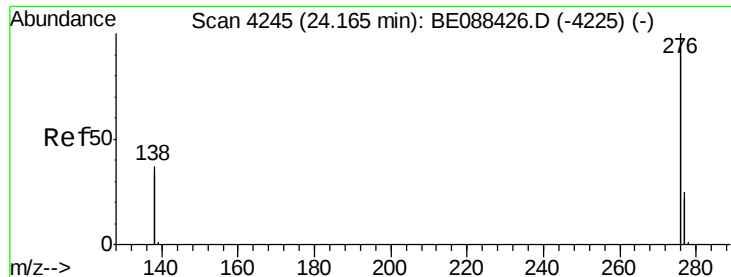


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.24 ng

RT: 24.20 min Scan# 4251

Delta R.T. 0.04 min

Lab File: BE088461.D

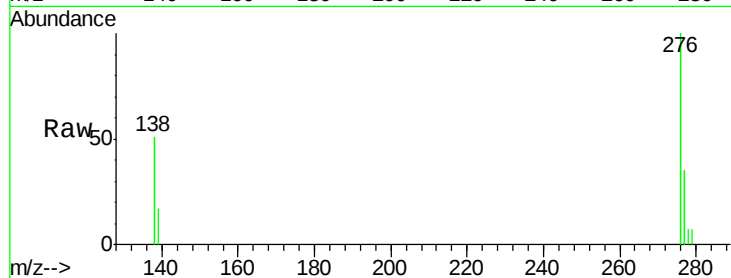
Acq: 1 Nov 2014 20:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB44-1014RE



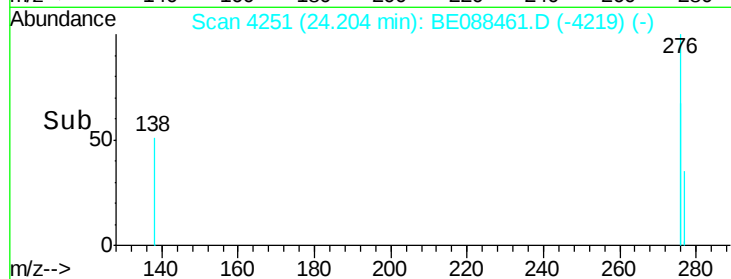
Tgt Ion: 276 Resp: 13745

Ion Ratio Lower Upper

276 100

277 35.1 19.8 29.6#

138 51.4 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

