

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088150.D
 Acq On : 21 Oct 2014 19:41
 Operator : TP/JJ
 Sample : F4351-09
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW08-1014

Quant Time: Oct 22 04:38:35 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	38303	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	143589	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	65147	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	122310	5.00	ng	0.00
16) Chrysene-d12	18.39	240	83696	5.00	ng	0.00
22) Perylene-d12	21.44	264	76945	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.82	82	68512	6.62	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	116040	6.45	ng	0.00
18) Terphenyl-d14	16.15	244	108645	8.07	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.01	88	13065	2.37	ng	# 1
9) Acenaphthylene	10.67	152	2628	0.03	ng	97
13) Phenanthrene	13.01	178	7512	Below Cal		# 58
14) Anthracene	13.09	178	10299	0.11	ng	# 94
15) Fluoranthene	15.25	202	3192	0.14	ng	99
17) Pyrene	15.70	202	3524	0.15	ng	99
19) Benzo(a)anthracene	18.36	228	8553	0.11	ng	# 92
20) Chrysene	18.44	228	12814	0.18	ng	# 93
21) Indeno(1,2,3-cd)pyrene	23.64	276	7379	0.09	ng	# 93
23) Benzo(b)fluoranthene	20.69	252	4376	0.24	ng	# 91
24) Benzo(k)fluoranthene	20.74	252	2187	0.11	ng	# 82
25) Benzo(a)pyrene	21.32	252	1779	0.11	ng	# 83
26) Dibenzo(a,h)anthracene	23.73	278	393	0.02	ng	# 38
27) Benzo(g,h,i)perylene	24.26	276	7319	0.10	ng	# 85

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

```
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Data File : BE088150.D  
Acq On    : 21 Oct 2014   19:41  
Operator  : TP/JJ  
Sample    : F4351-09  
Misc      :  
ALS Vial  : 11      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

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ClientSampleId :

YS19-SW08-1014

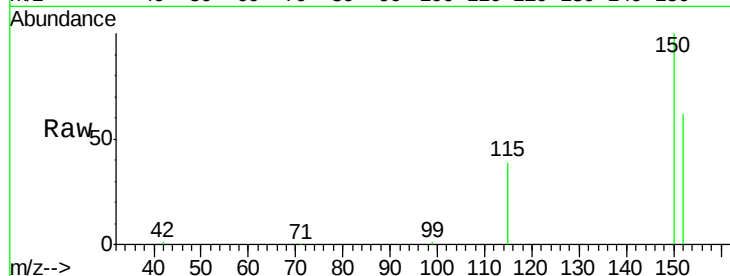
Tgt Ion:152 Resp: 38303

Ion Ratio Lower Upper

152 100

150 161.9 129.2 193.8

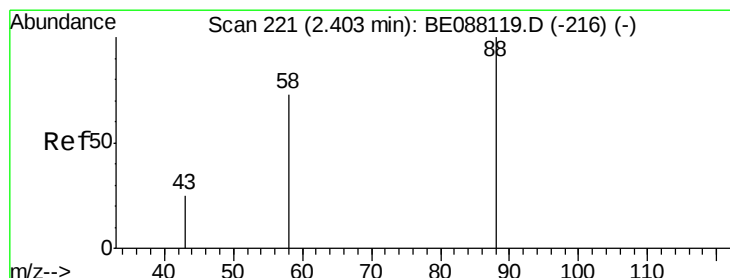
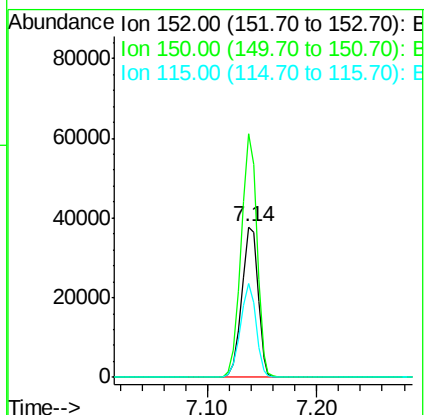
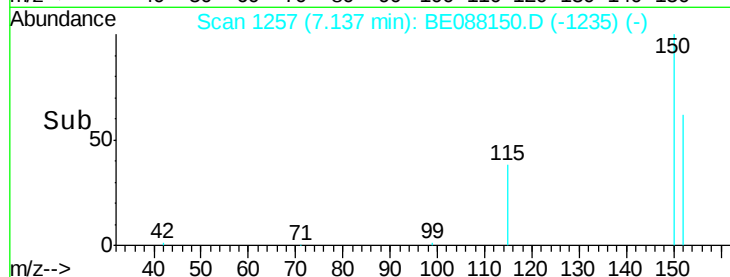
115 62.3 49.3 73.9



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: 2.37 ng

RT: 2.01 min Scan# 134

Delta R.T. -0.40 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

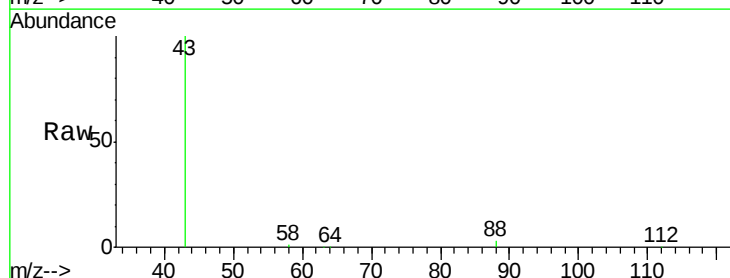
Tgt Ion: 88 Resp: 13065

Ion Ratio Lower Upper

88 100

58 28.3 59.5 89.3#

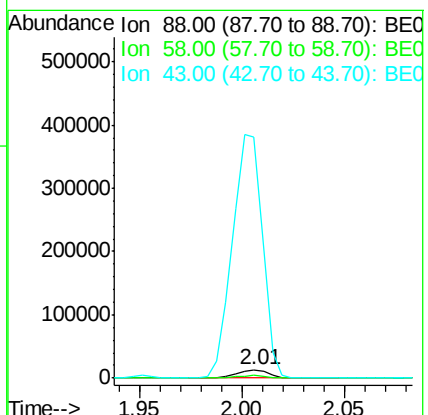
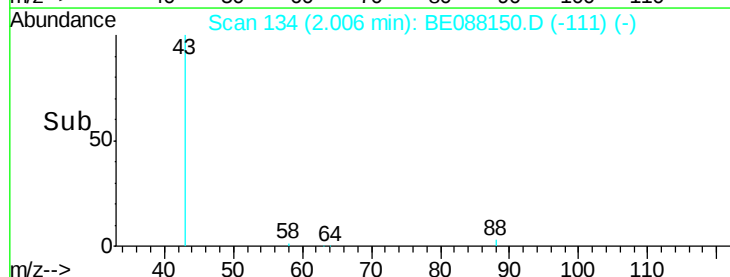
43 2987.5 21.2 31.8#

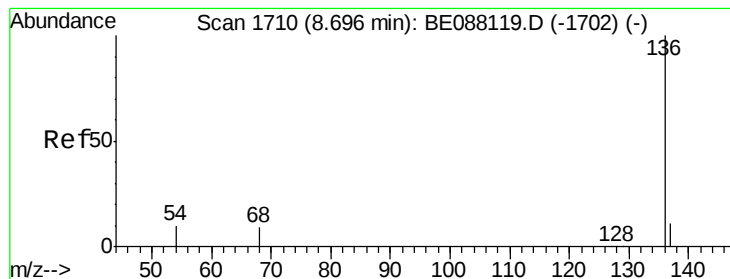


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.70 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

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ClientSampleId :

YS19-SW08-1014

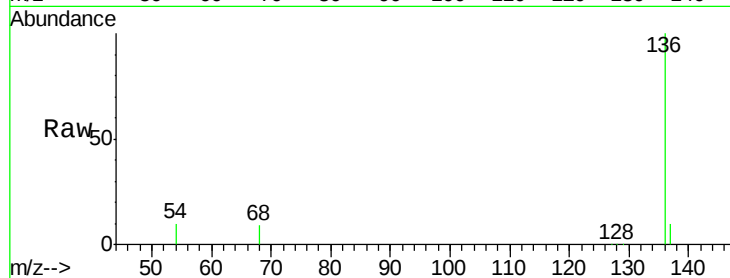
Tgt Ion: 136 Resp: 143589

Ion Ratio Lower Upper

136 100

137 10.5 8.6 12.8

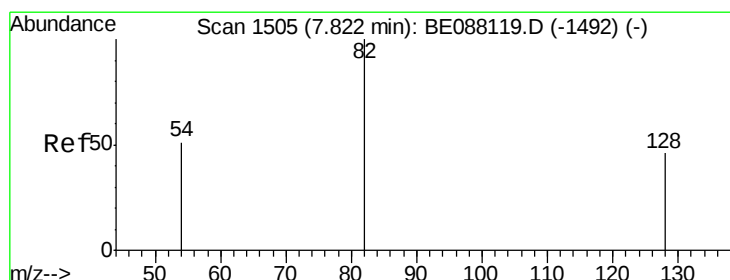
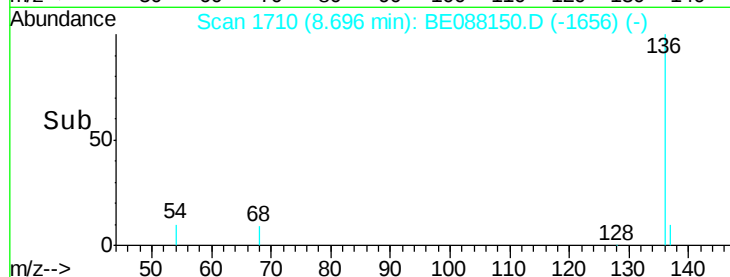
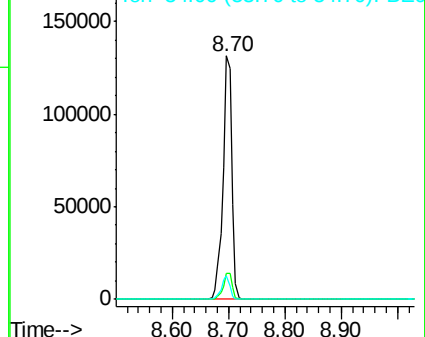
54 9.8 7.7 11.5



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: 6.62 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

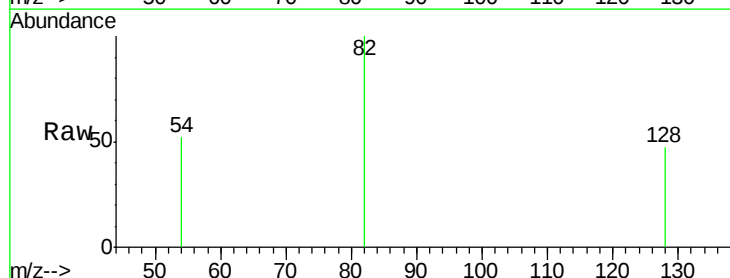
Tgt Ion: 82 Resp: 68512

Ion Ratio Lower Upper

82 100

128 46.7 37.1 55.7

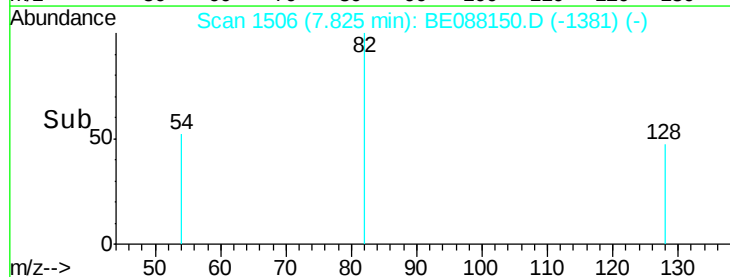
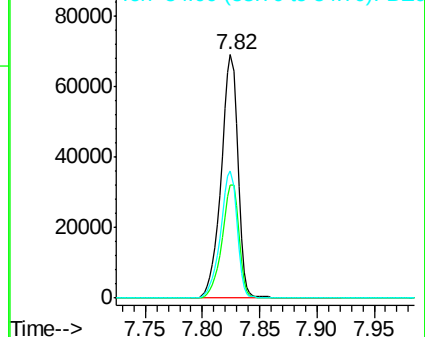
54 52.1 41.1 61.7

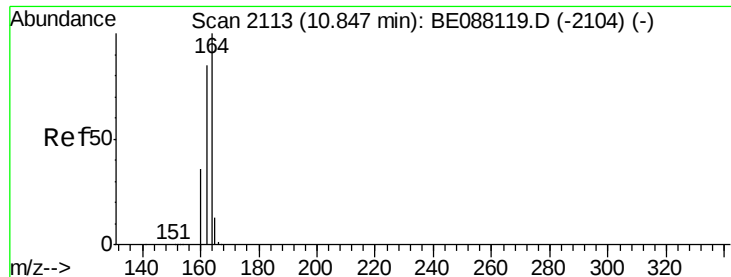


Abundance Ion 82.00 (81.70 to 82.70): BE0

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: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

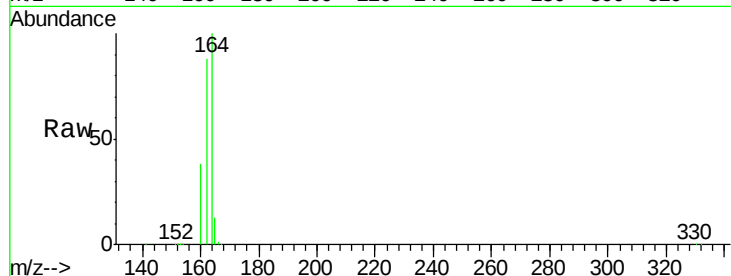
Tgt Ion:164 Resp: 65147

Ion Ratio Lower Upper

164 100

162 87.5 68.3 102.5

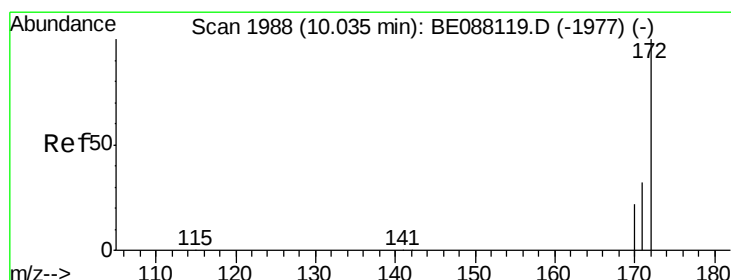
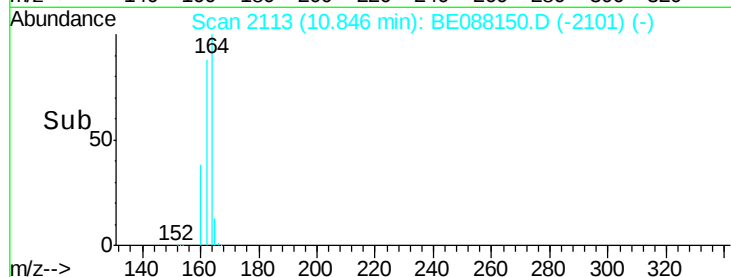
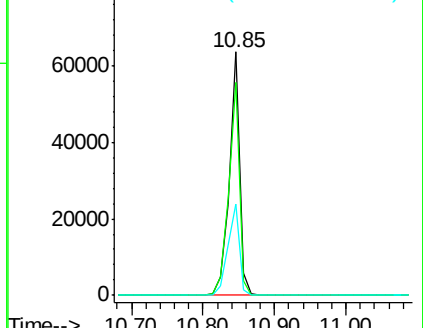
160 37.6 28.7 43.1



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: 6.45 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

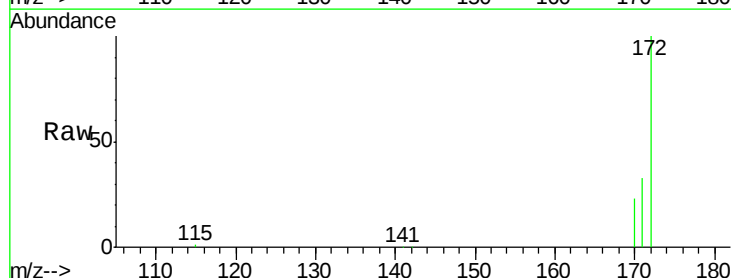
Tgt Ion:172 Resp: 116040

Ion Ratio Lower Upper

172 100

171 33.1 25.4 38.2

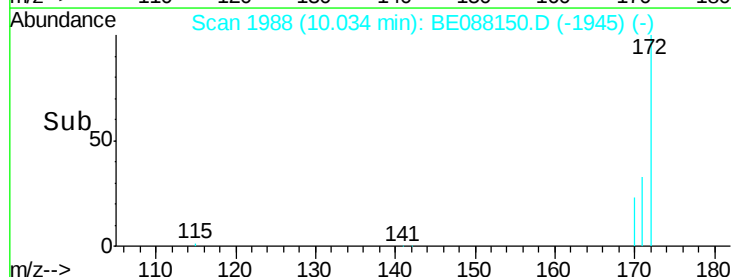
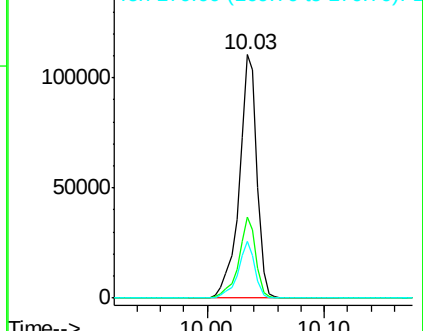
170 23.2 17.4 26.2

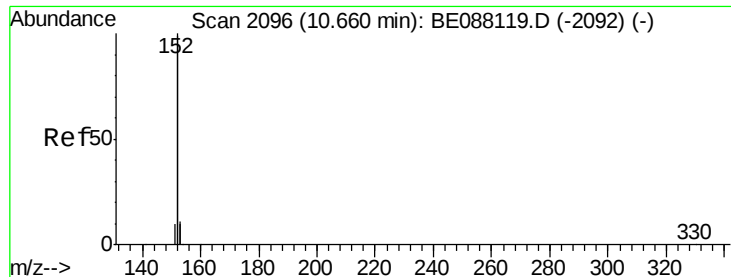


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.03 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

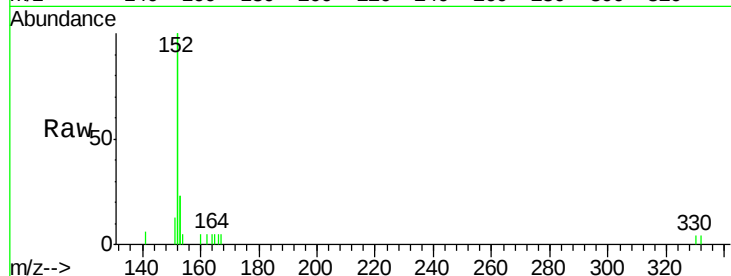
Tgt Ion:152 Resp: 2628

Ion Ratio Lower Upper

152 100

151 5.2 3.7 5.5

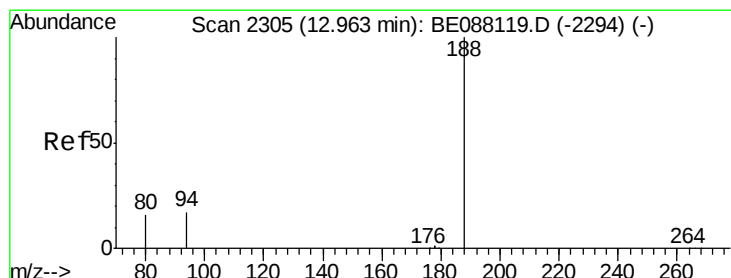
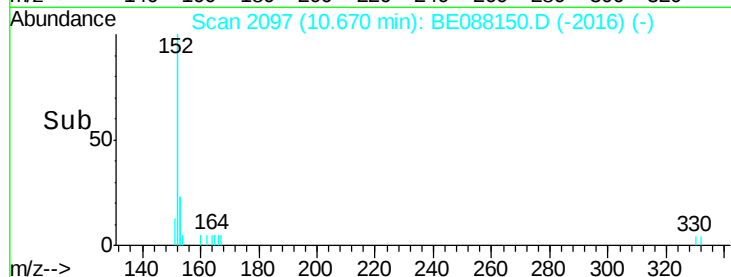
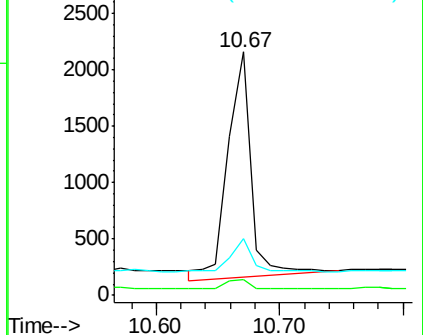
153 11.8 10.4 15.6



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2305

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

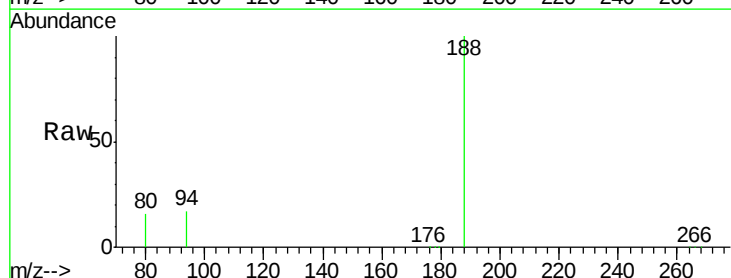
Tgt Ion:188 Resp: 122310

Ion Ratio Lower Upper

188 100

94 17.1 13.9 20.9

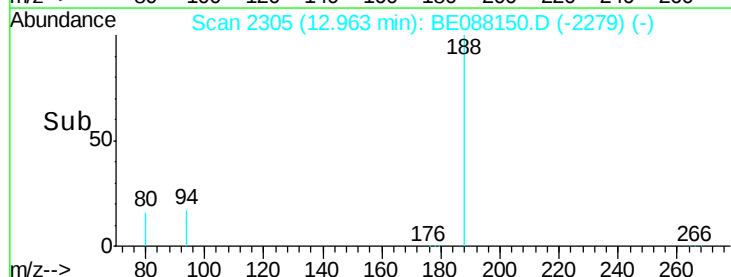
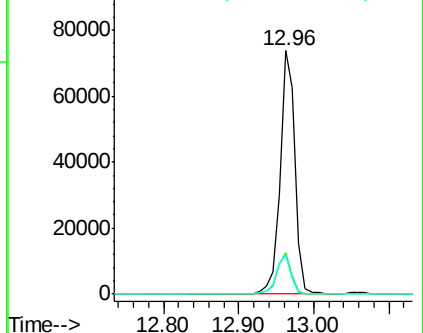
80 16.0 12.9 19.3

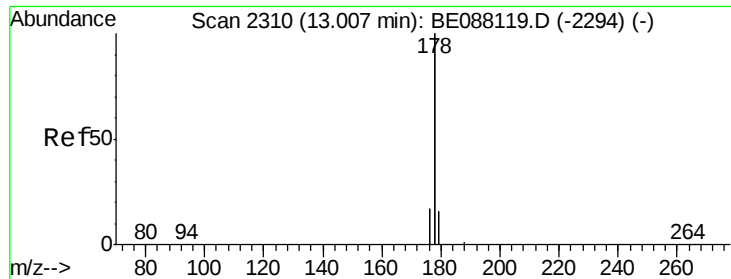


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: Below Cal

RT: 13.01 min Scan# 2310

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

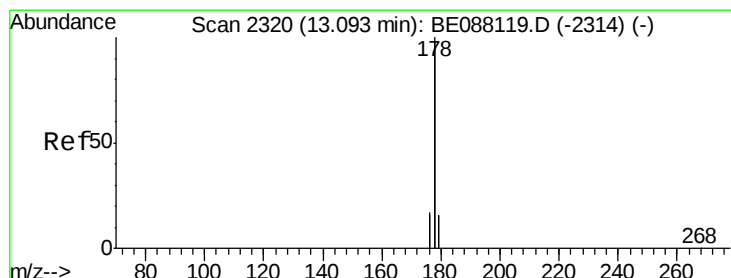
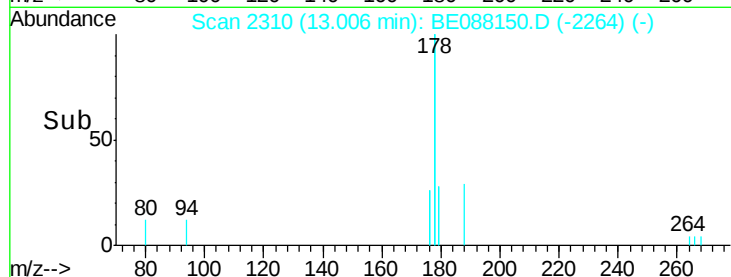
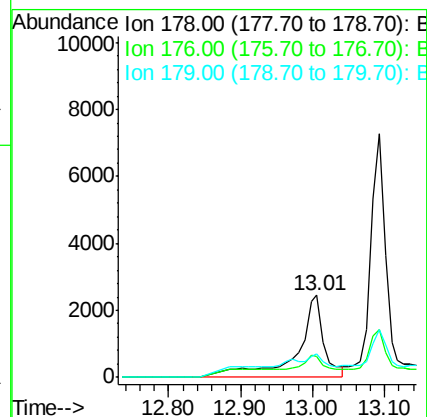
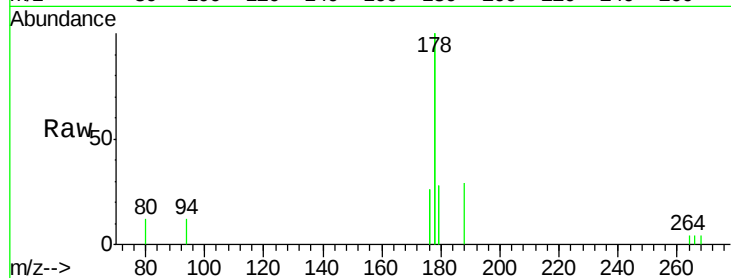
Tgt Ion:178 Resp: 7512

Ion Ratio Lower Upper

178 100

176 48.3 12.5 18.7#

179 12.9 13.5 20.3#



#14

Anthracene

Concen: 0.11 ng

RT: 13.09 min Scan# 2320

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

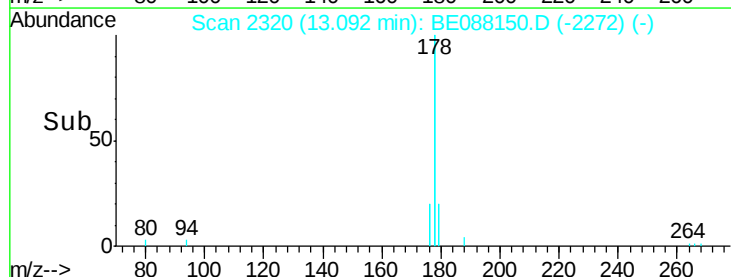
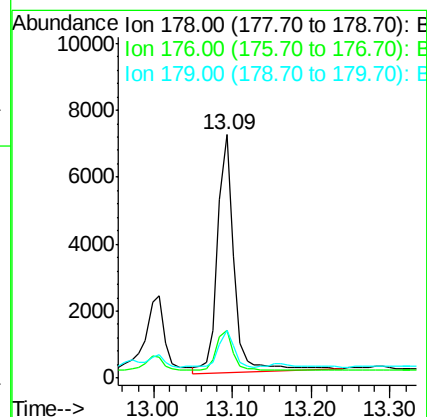
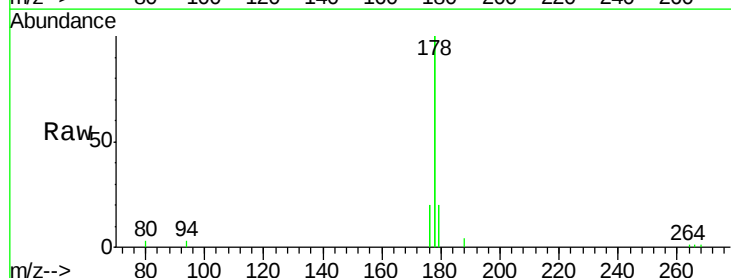
Tgt Ion:178 Resp: 10299

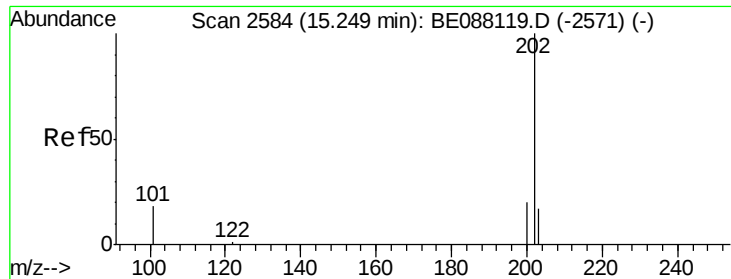
Ion Ratio Lower Upper

178 100

176 19.6 14.6 21.8

179 19.3 12.5 18.7#

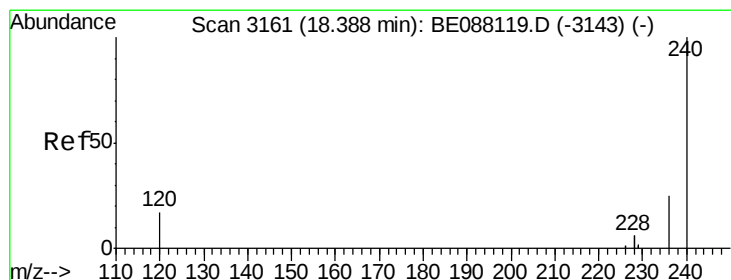
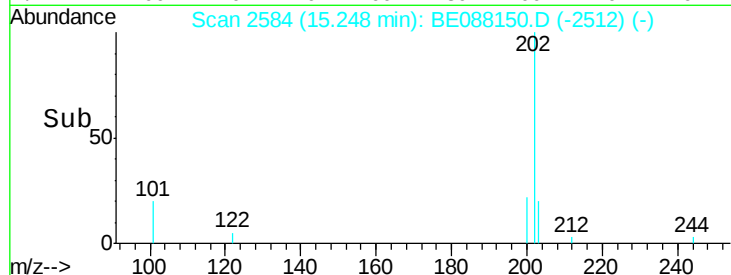
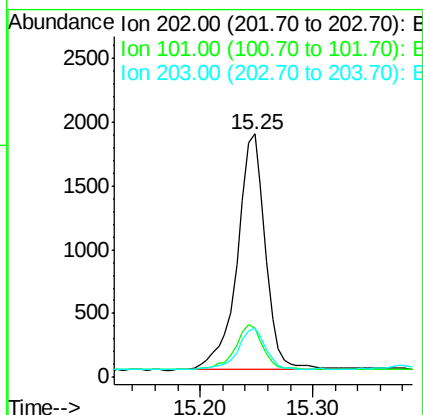
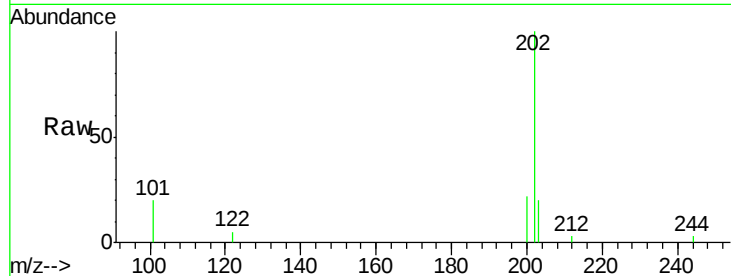




#15
 Fluoranthene
 Concen: 0.14 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088150.D
 Acq: 21 Oct 2014 19:41

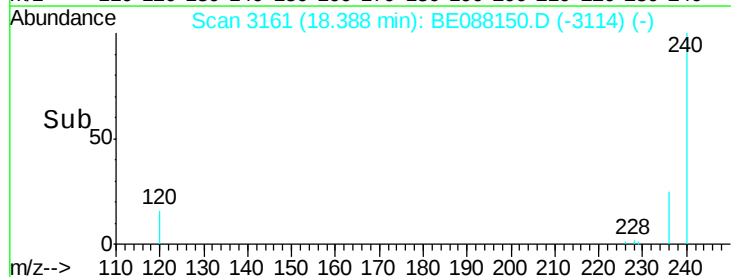
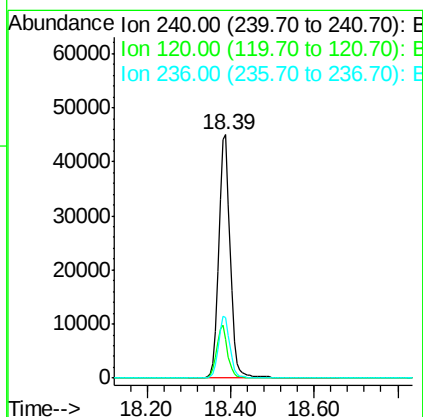
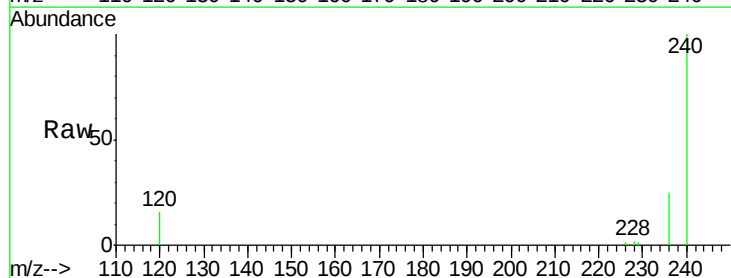
Instrument :
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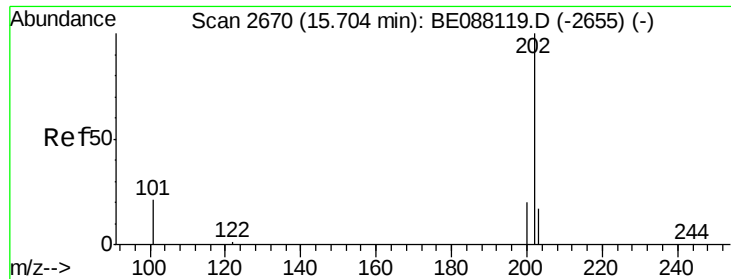
Tgt Ion: 202 Resp: 3192
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 16.4 13.5 20.3



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3161
 Delta R.T. 0.00 min
 Lab File: BE088150.D
 Acq: 21 Oct 2014 19:41

Tgt Ion: 240 Resp: 83696
 Ion Ratio Lower Upper
 240 100
 120 16.1 13.9 20.9
 236 25.1 19.9 29.9

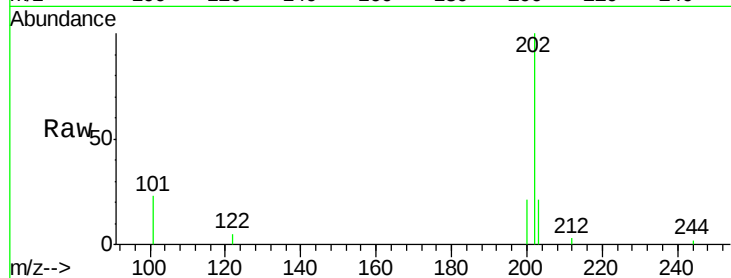




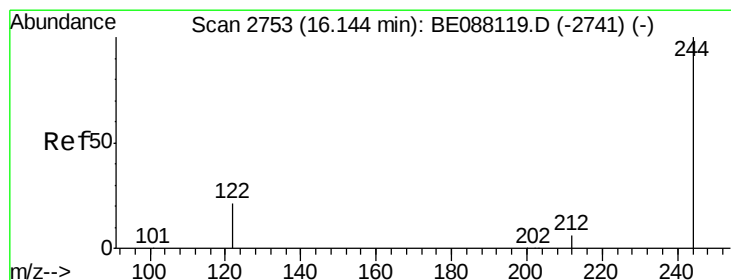
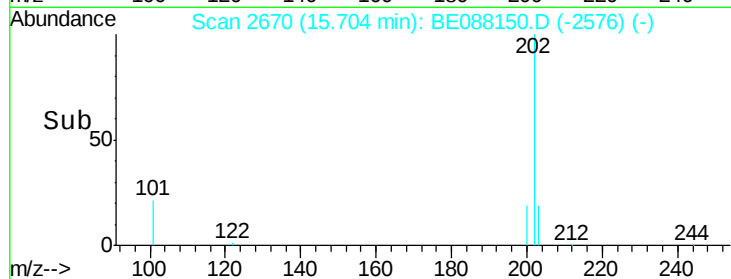
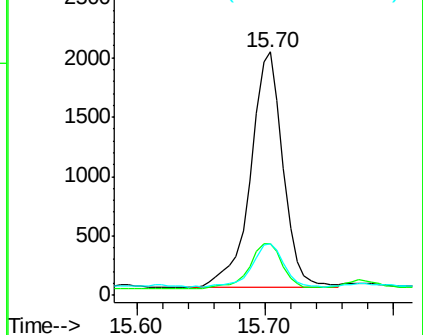
#17
 Pyrene
 Concen: 0.15 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088150.D
 Acq: 21 Oct 2014 19:41

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW08-1014

Tgt Ion: 202 Resp: 3524
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.1 24.1
 203 18.3 13.9 20.9

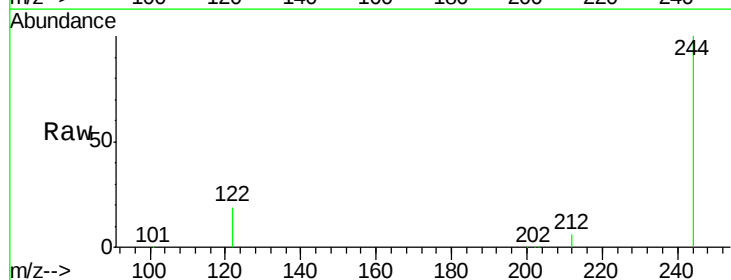


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

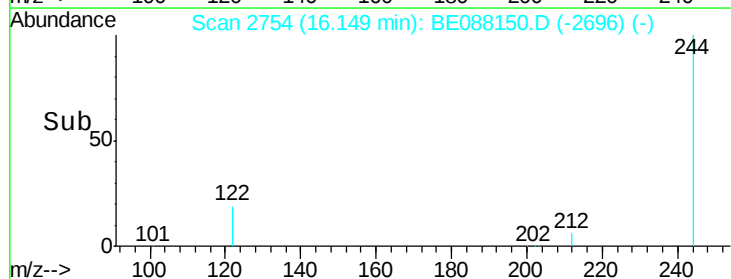
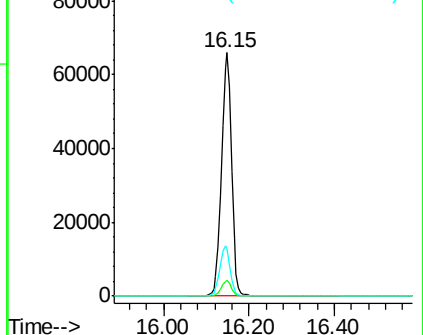


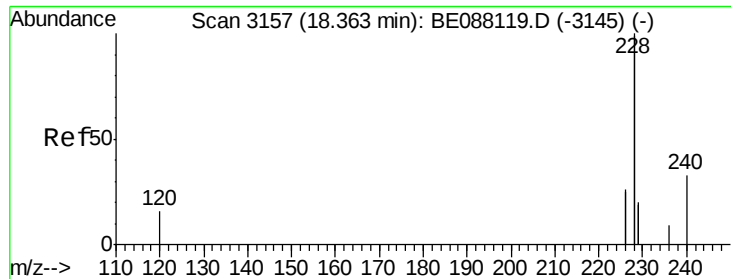
#18
 Terphenyl-d14
 Concen: 8.07 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088150.D
 Acq: 21 Oct 2014 19:41

Tgt Ion: 244 Resp: 108645
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.4 8.0
 122 19.4 17.5 26.3



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: 0.11 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

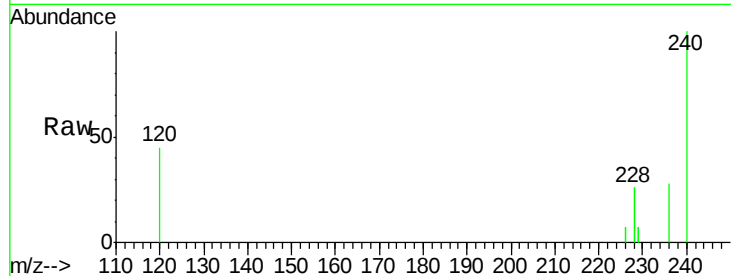
Tgt Ion:228 Resp: 8553

Ion Ratio Lower Upper

228 100

226 28.4 20.8 31.2

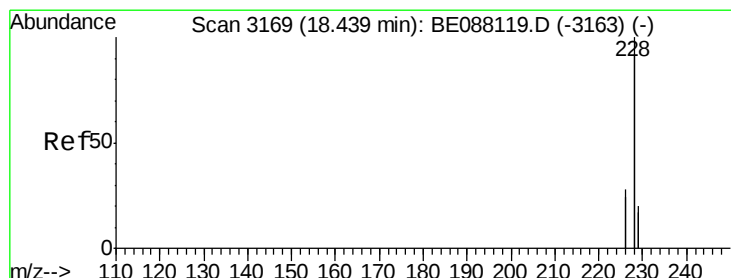
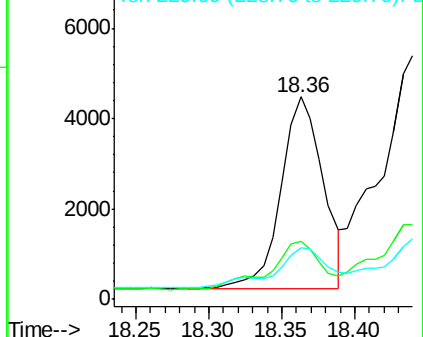
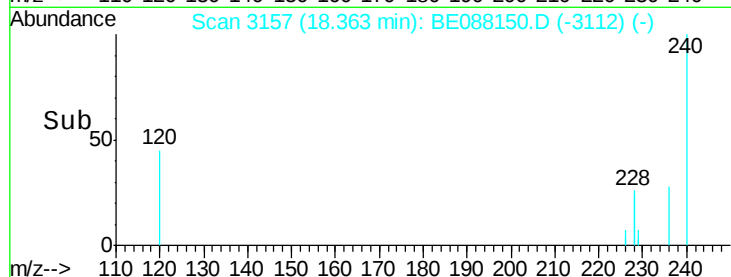
229 25.2 15.6 23.4#



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: 0.18 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

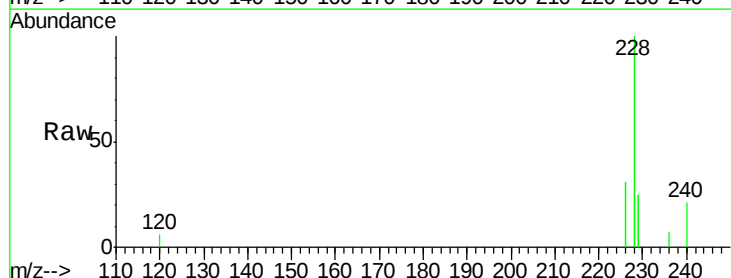
Tgt Ion:228 Resp: 12814

Ion Ratio Lower Upper

228 100

226 30.8 22.7 34.1

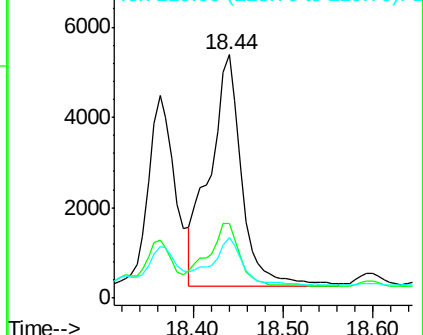
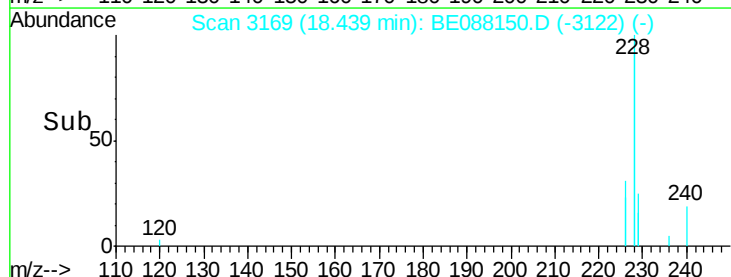
229 24.8 15.8 23.6#

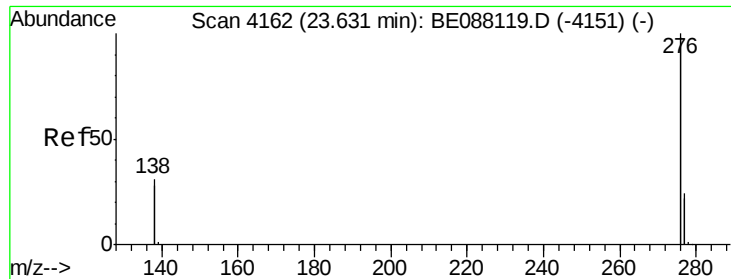


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.09 ng

RT: 23.64 min Scan# 4163

Delta R.T. 0.01 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

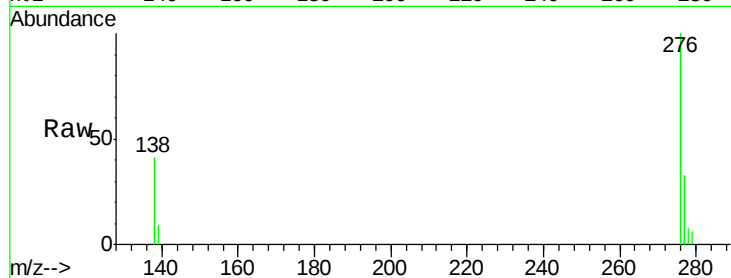
Tgt Ion:276 Resp: 7379

Ion Ratio Lower Upper

276 100

138 23.7 18.5 27.7

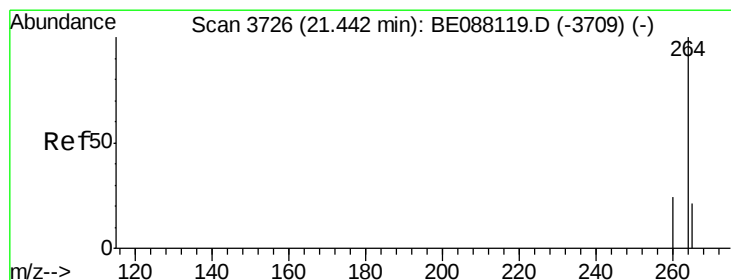
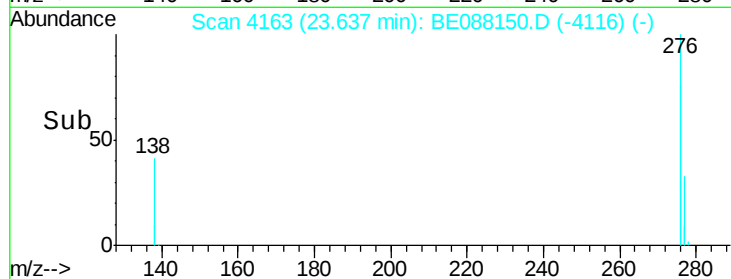
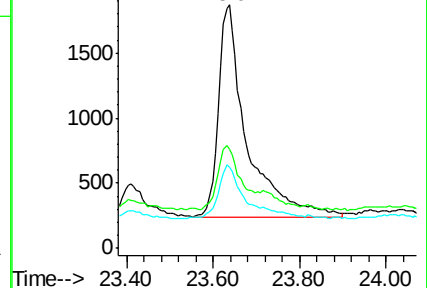
277 24.8 14.6 21.8#



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: 21.44 min Scan# 3726

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

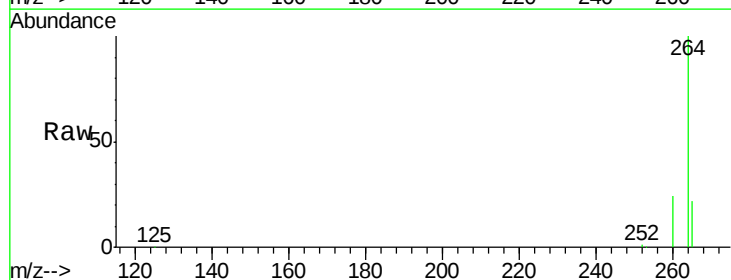
Tgt Ion:264 Resp: 76945

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

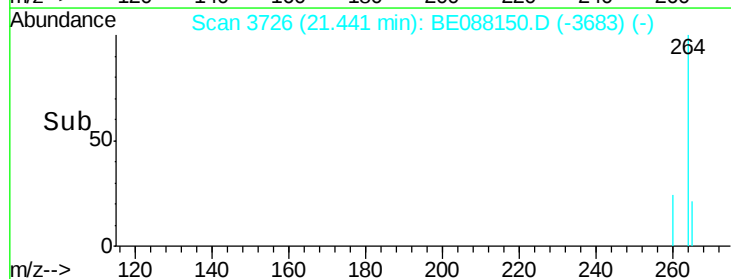
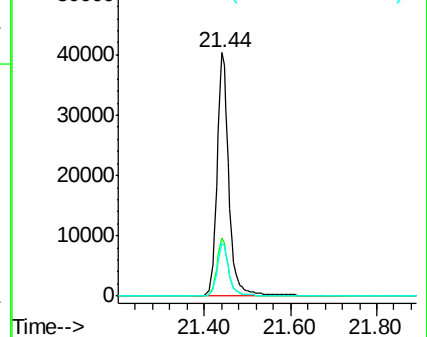
265 21.5 17.2 25.8

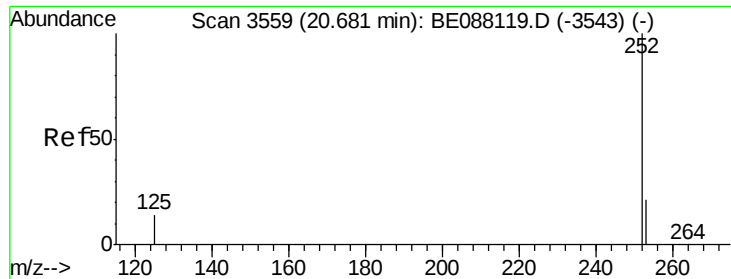


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.24 ng

RT: 20.69 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

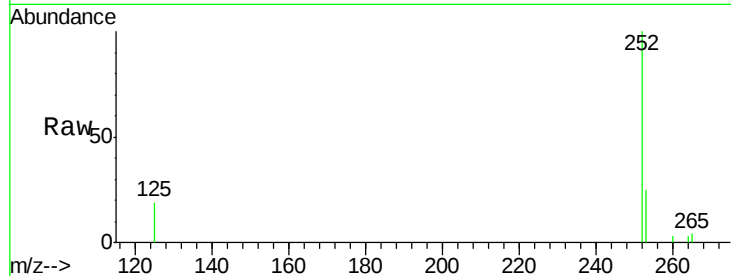
Tgt Ion:252 Resp: 4376

Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.0

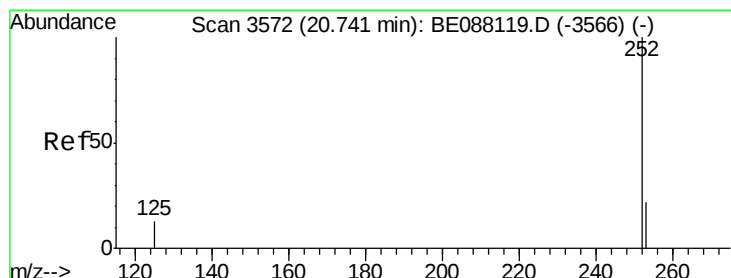
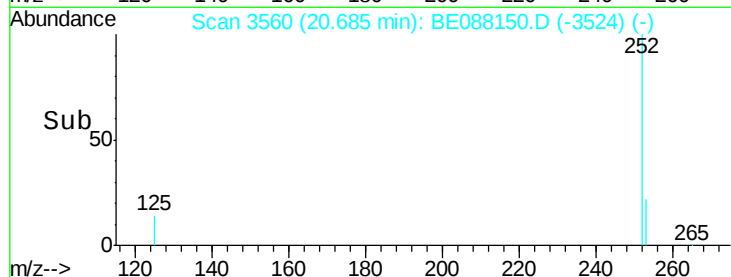
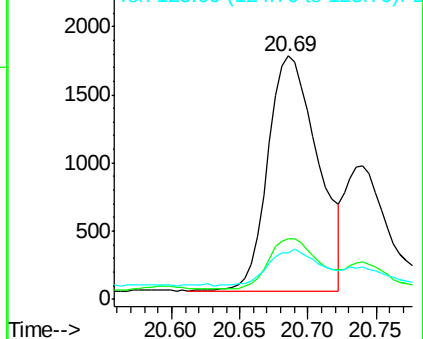
125 19.3 11.8 17.8#



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: 0.11 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

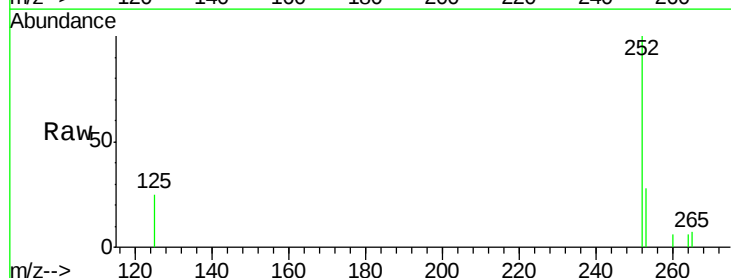
Tgt Ion:252 Resp: 2187

Ion Ratio Lower Upper

252 100

253 28.4 17.6 26.4#

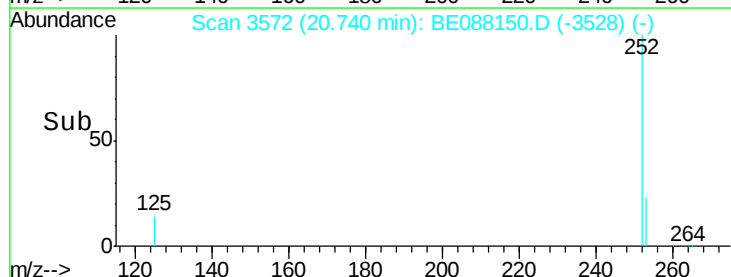
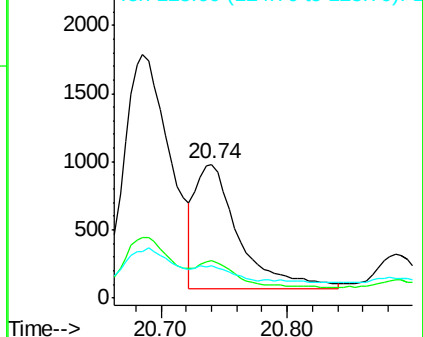
125 24.7 11.5 17.3#

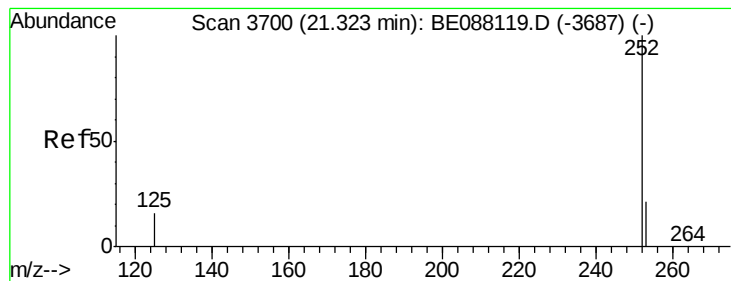


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.11 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014

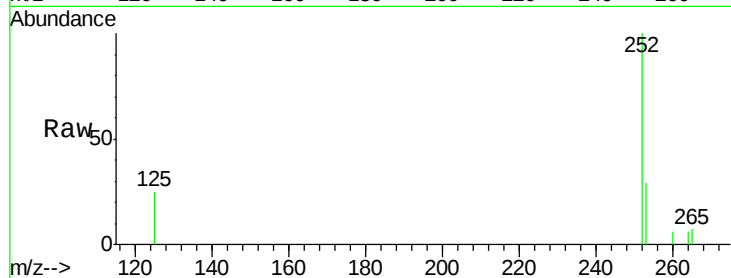
Tgt Ion: 252 Resp: 1779

Ion Ratio Lower Upper

252 100

253 28.8 17.5 26.3#

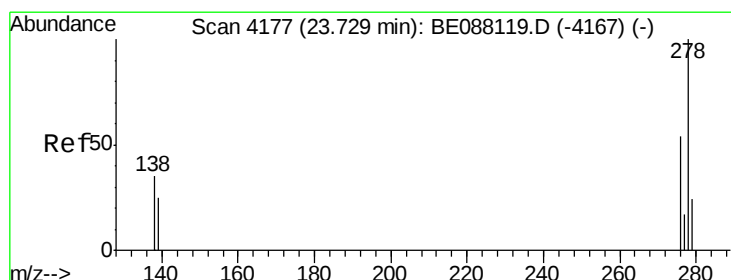
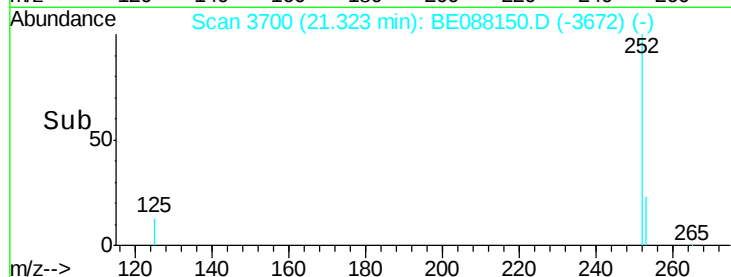
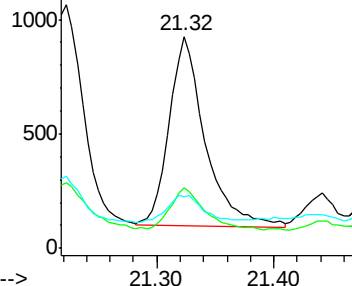
125 24.6 13.0 19.6#



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: 0.02 ng

RT: 23.73 min Scan# 4177

Delta R.T. -0.00 min

Lab File: BE088150.D

Acq: 21 Oct 2014 19:41

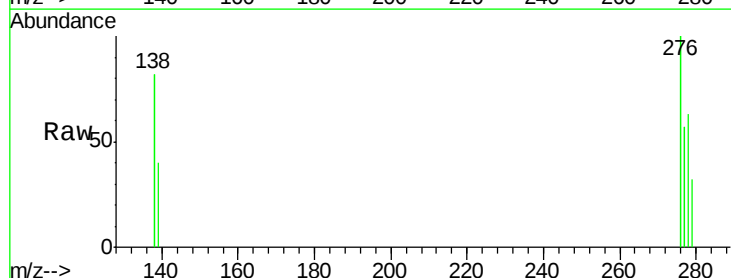
Tgt Ion: 278 Resp: 393

Ion Ratio Lower Upper

278 100

139 62.7 20.9 31.3#

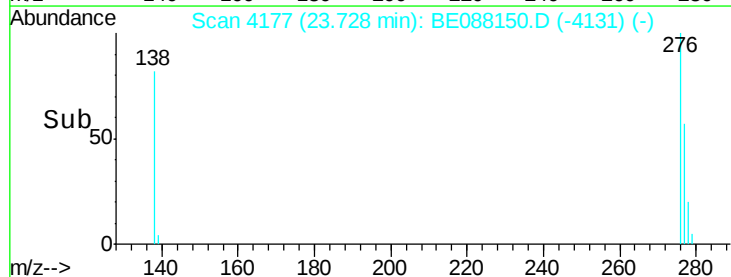
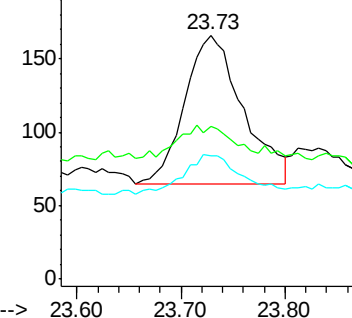
279 50.6 19.8 29.8#

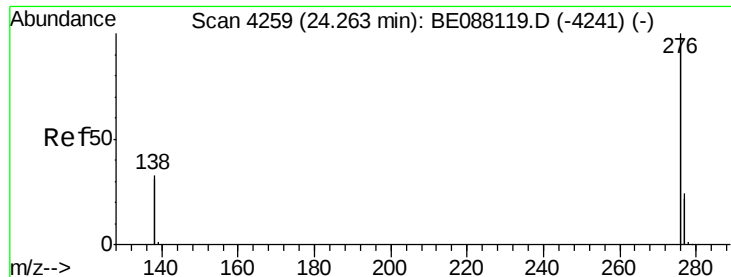


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.10 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088150.D

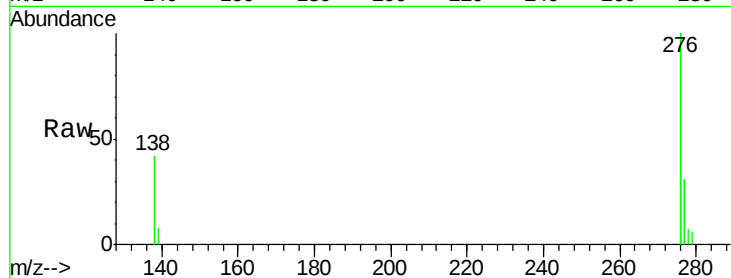
Acq: 21 Oct 2014 19:41

Instrument :

BNA_E

ClientSampleId :

YS19-SW08-1014



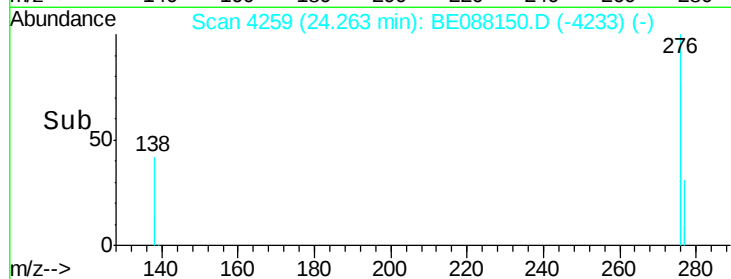
Tgt Ion: 276 Resp: 7319

Ion Ratio Lower Upper

276 100

277 31.1 19.2 28.8#

138 42.4 26.6 40.0#



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

