

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088439.D
 Acq On : 1 Nov 2014 1:25
 Operator : TP/JJ
 Sample : F4372-37DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SD02P-1014

Quant Time: Nov 01 03:15:49 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	49584	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	188297	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	81098	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	139493	5.00	ng	0.00
16) Chrysene-d12	18.31	240	69892	5.00	ng	0.00
22) Perylene-d12	21.37	264	64436	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	184727	13.38	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	254835	11.15	ng	0.00
18) Terphenyl-d14	16.08	244	128673	10.02	ng	0.00

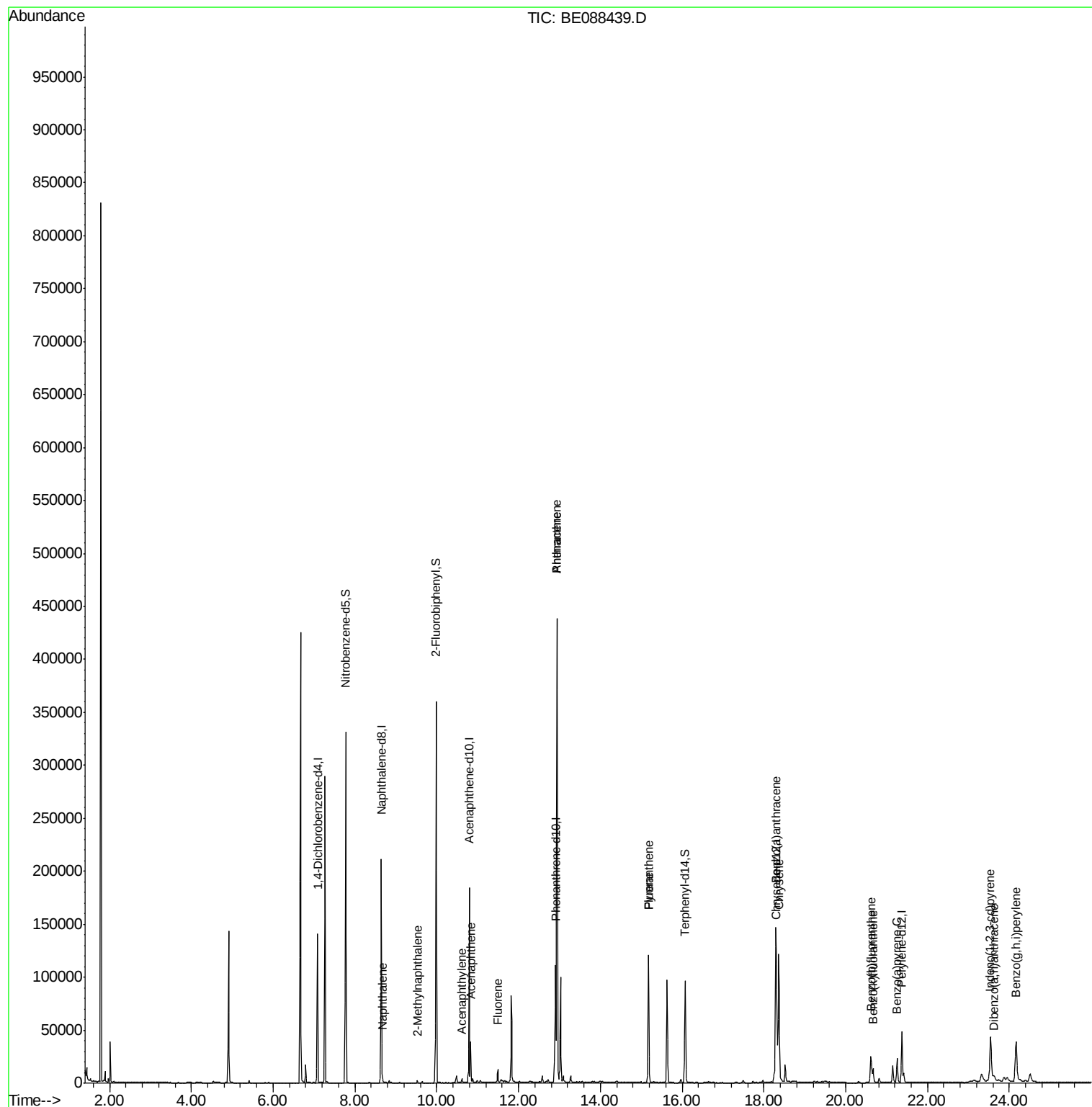
Target Compounds						Qvalue
5) Naphthalene	8.67	128	5642	0.14	ng	98
6) 2-Methylnaphthalene	9.52	142	1210	0.05	ng	98
9) Acenaphthylene	10.62	152	3796	0.03	ng	# 76
10) Acenaphthene	10.84	154	7894	0.41	ng	95
11) Fluorene	11.49	166	7005	0.34	ng	99
13) Phenanthrene	12.94	178	578838	4.57	ng	99
14) Anthracene	12.94	178	578838	5.66	ng	100
15) Fluoranthene	15.18	202	118232	5.75	ng	99
17) Pyrene	15.18	202	117227	5.14	ng	100
19) Benzo(a)anthracene	18.29	228	169782	2.58	ng	99
20) Chrysene	18.36	228	164211	2.54	ng	98
21) Indeno(1,2,3-cd)pyrene	23.55	276	82743	1.37	ng	# 88
23) Benzo(b)fluoranthene	20.62	252	44146	3.12	ng	98
24) Benzo(k)fluoranthene	20.67	252	17390	1.12	ng	99
25) Benzo(a)pyrene	21.25	252	30532	2.25	ng	99
26) Dibenzo(a,h)anthracene	23.63	278	3776	0.30	ng	# 91
27) Benzo(g,h,i)perylene	24.17	276	74475	1.29	ng	99

(#) = 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: BE088439.D

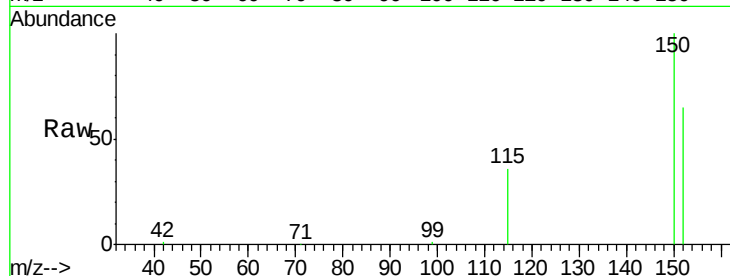
Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014



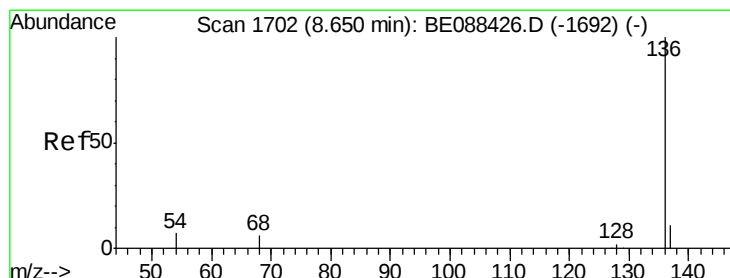
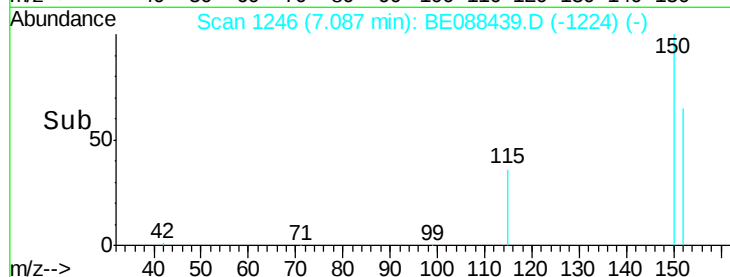
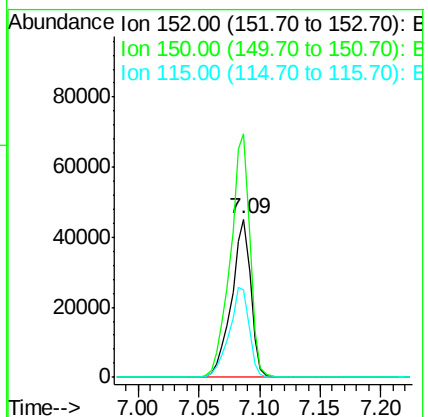
Tgt Ion:152 Resp: 49584

Ion Ratio Lower Upper

152 100

150 153.8 121.8 182.8

115 55.6 43.9 65.9



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1701

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

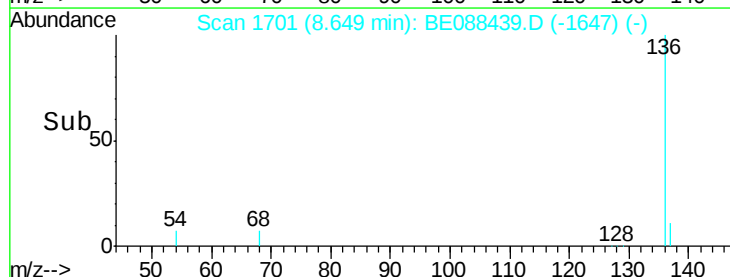
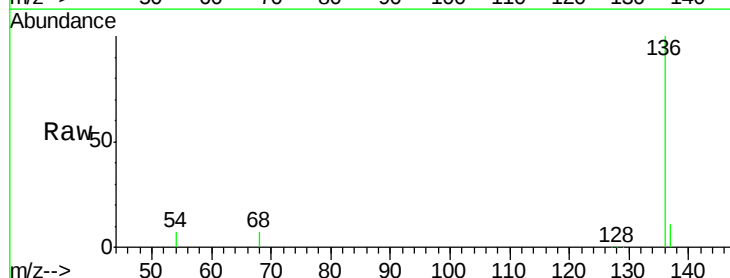
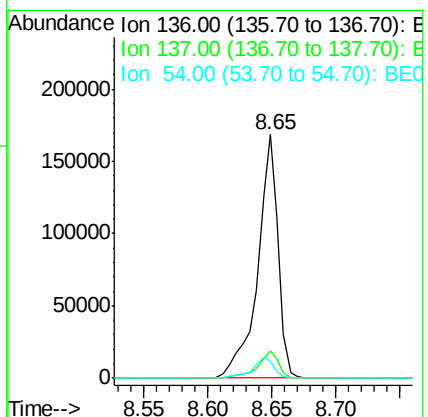
Tgt Ion:136 Resp: 188297

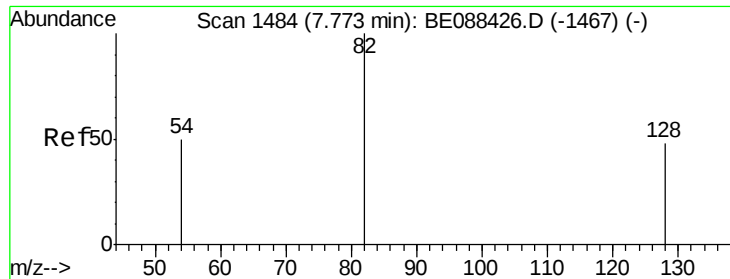
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 7.3 5.3 7.9





#4

Nitrobenzene-d5

Concen: 13.38 ng

RT: 7.78 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

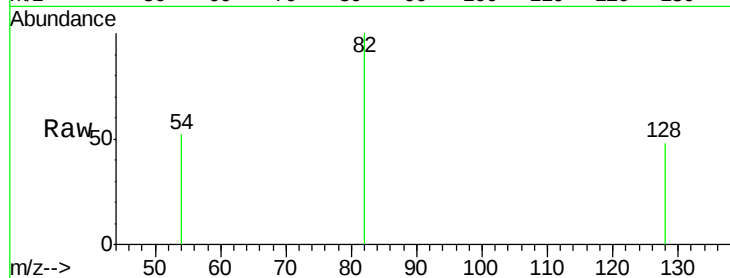
Tgt Ion: 82 Resp: 184727

Ion Ratio Lower Upper

82 100

128 47.8 38.4 57.6

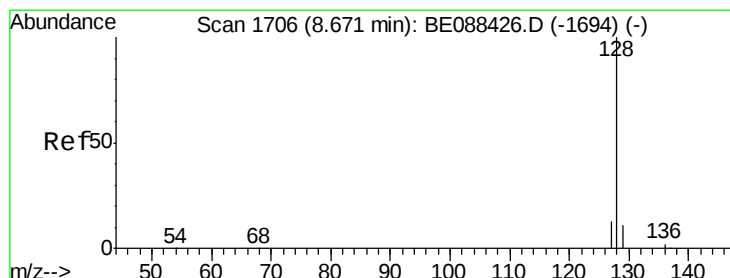
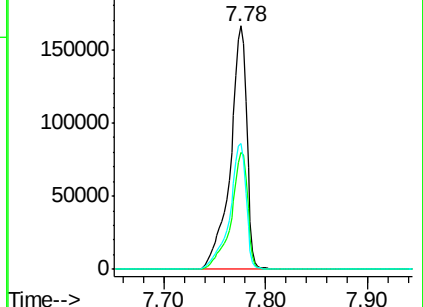
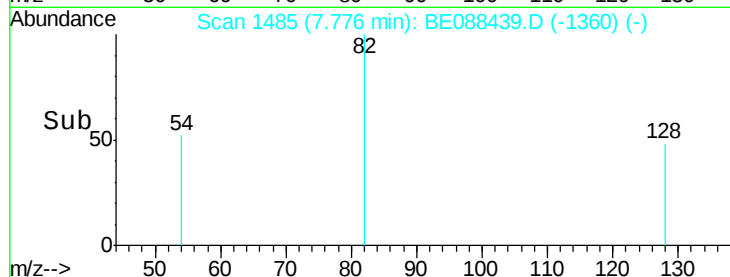
54 51.8 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#5

Naphthalene

Concen: 0.14 ng

RT: 8.67 min Scan# 1705

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

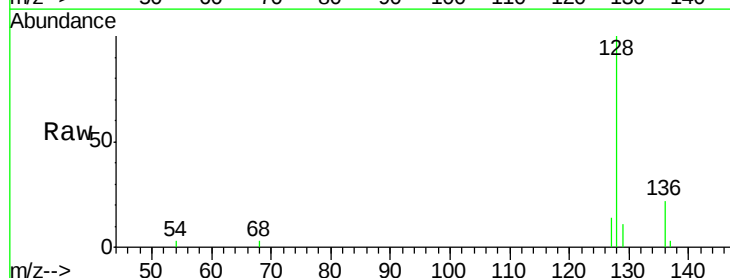
Tgt Ion: 128 Resp: 5642

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

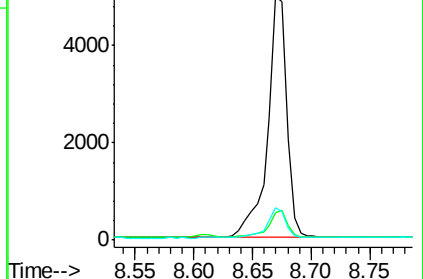
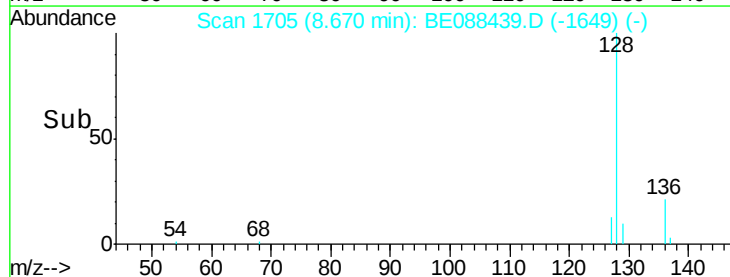
127 13.5 10.1 15.1

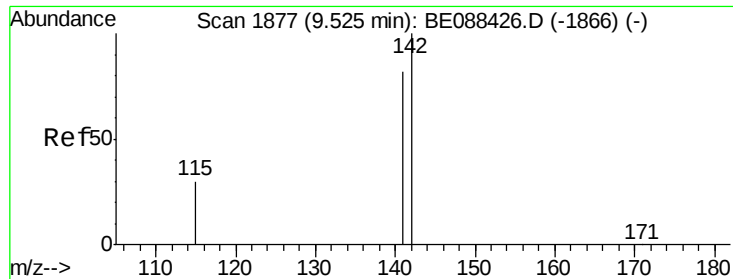


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

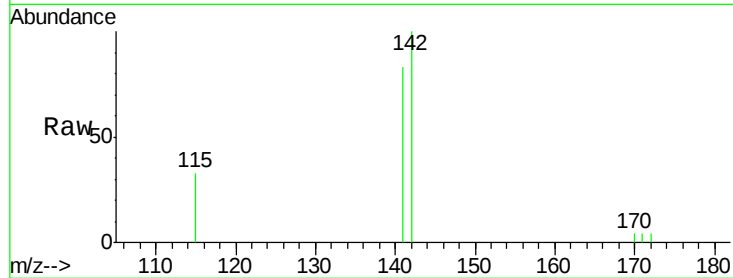
Tgt Ion:142 Resp: 1210

Ion Ratio Lower Upper

142 100

141 83.0 65.8 98.8

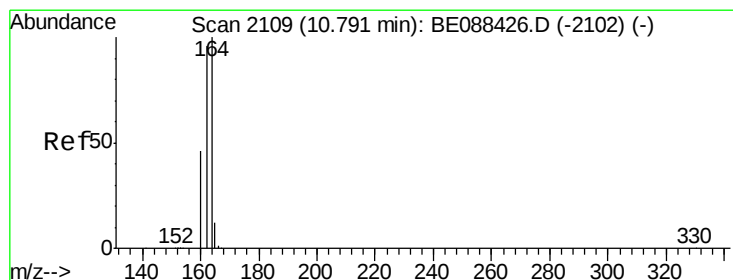
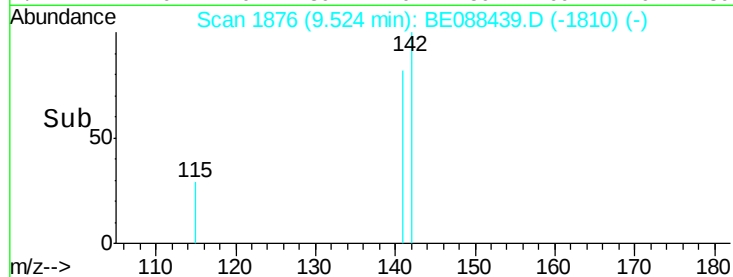
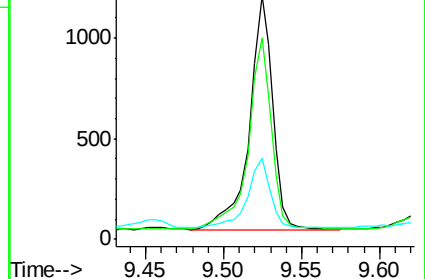
115 33.2 24.2 36.4



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: 10.79 min Scan# 2108

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

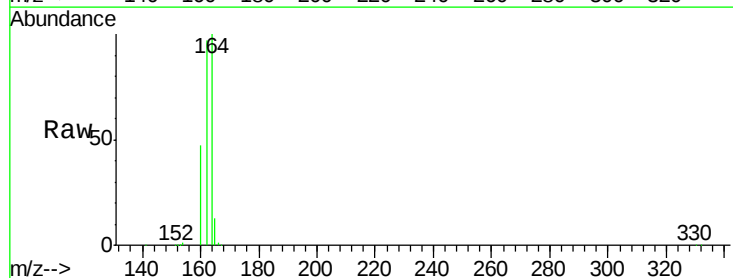
Tgt Ion:164 Resp: 81098

Ion Ratio Lower Upper

164 100

162 97.0 77.0 115.4

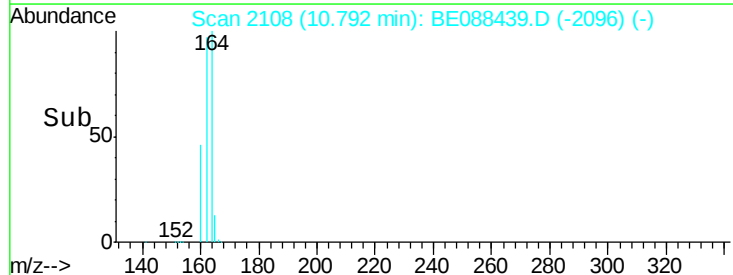
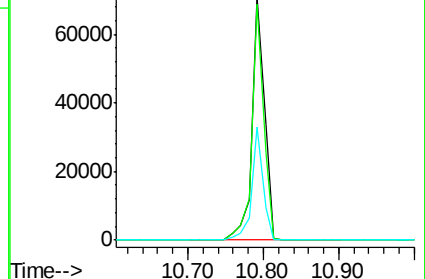
160 46.5 36.8 55.2

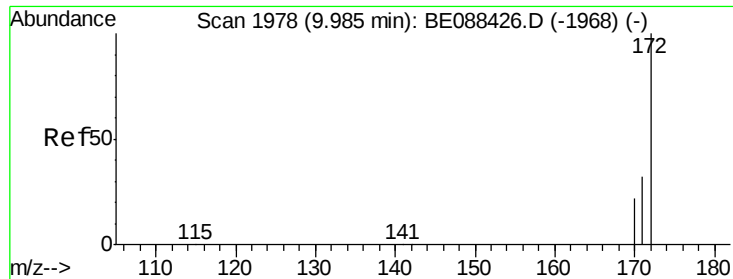


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 11.15 ng

RT: 9.99 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

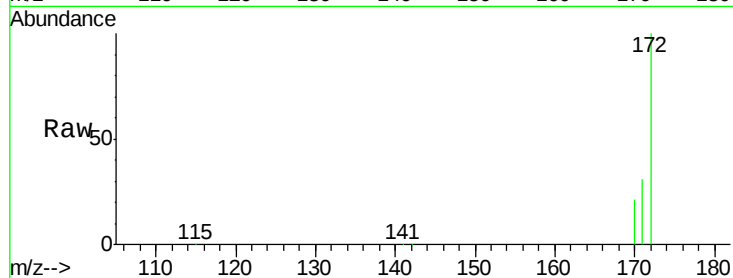
Tgt Ion:172 Resp: 254835

Ion Ratio Lower Upper

172 100

171 31.4 26.0 39.0

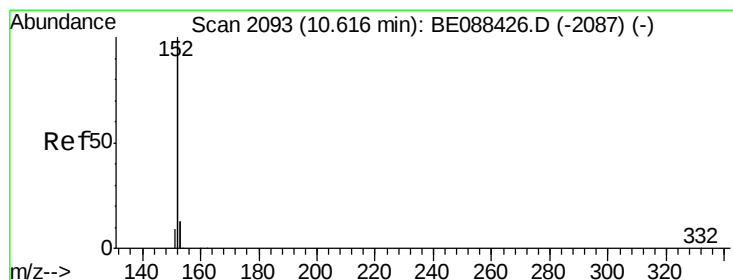
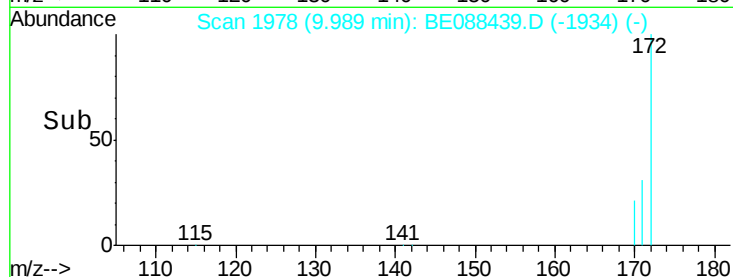
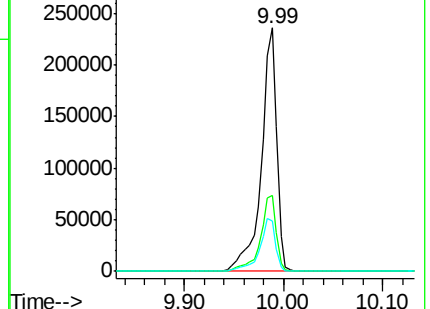
170 20.7 17.6 26.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#9

Acenaphthylene

Concen: 0.03 ng

RT: 10.62 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

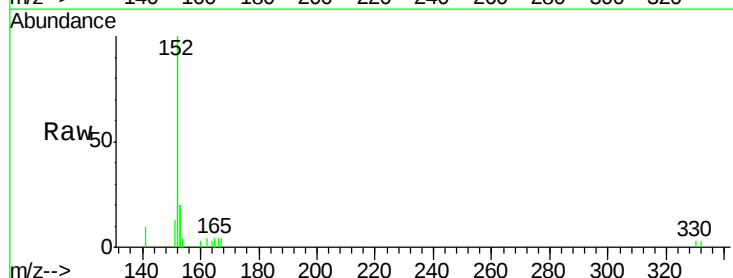
Tgt Ion:152 Resp: 3796

Ion Ratio Lower Upper

152 100

151 5.1 4.4 6.6

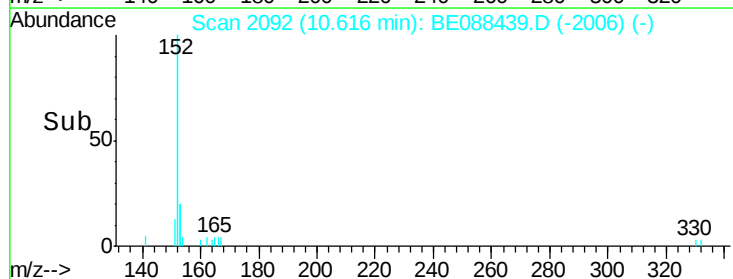
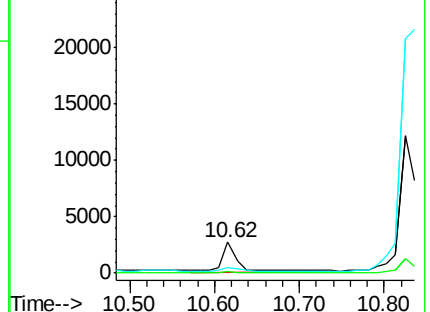
153 0.0 10.5 15.7#

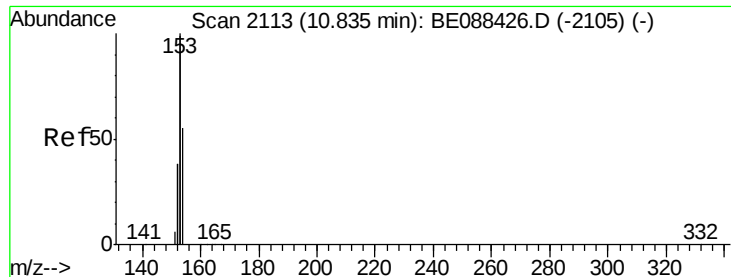


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.41 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

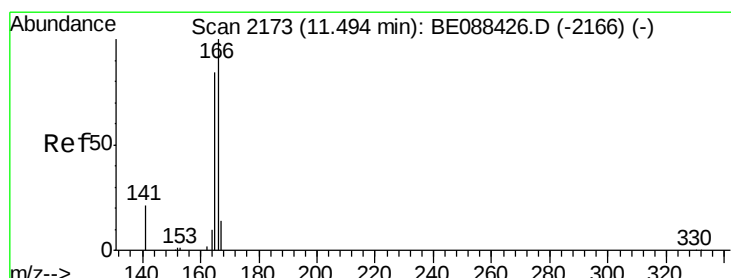
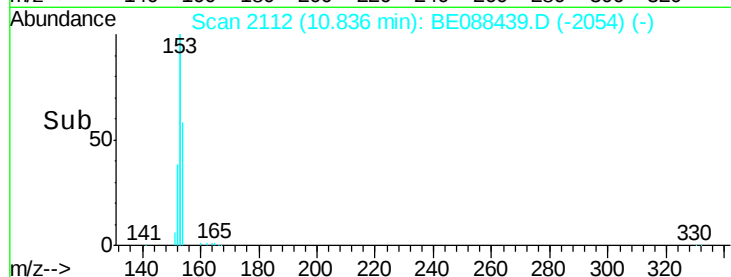
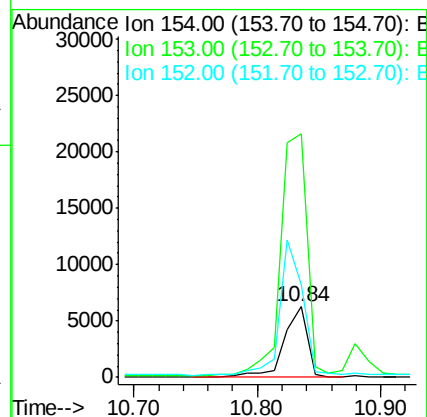
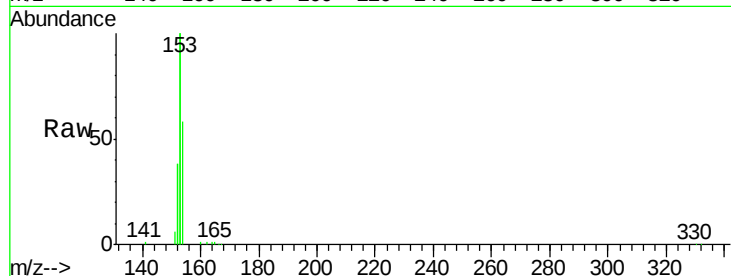
Tgt Ion:154 Resp: 7894

Ion Ratio Lower Upper

154 100

153 394.1 324.3 486.5

152 202.0 154.9 232.3



#11

Fluorene

Concen: 0.34 ng

RT: 11.49 min Scan# 2172

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

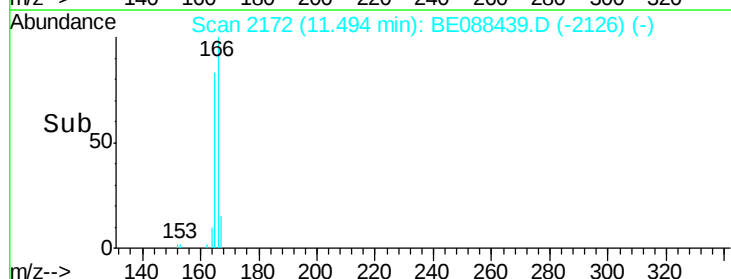
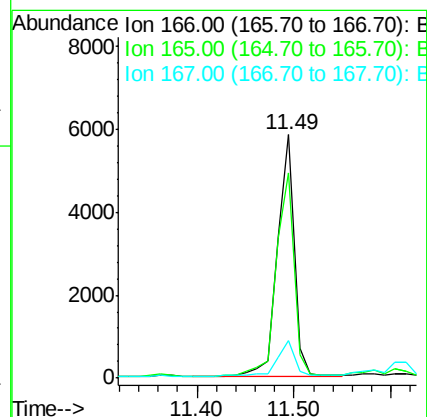
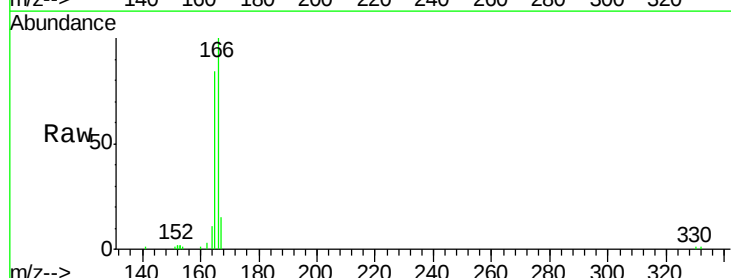
Tgt Ion:166 Resp: 7005

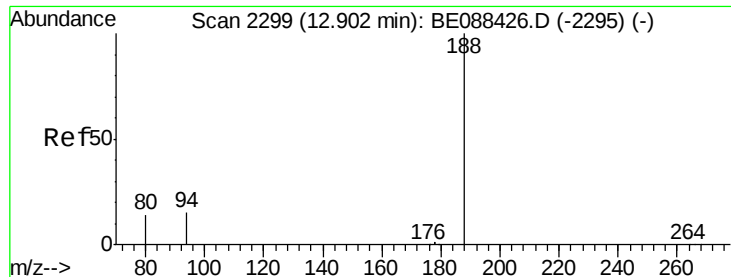
Ion Ratio Lower Upper

166 100

165 89.2 71.3 106.9

167 15.0 10.7 16.1

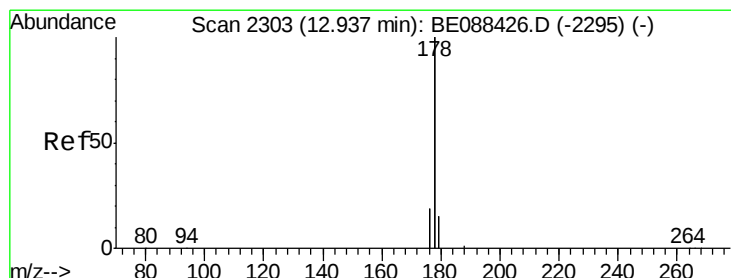
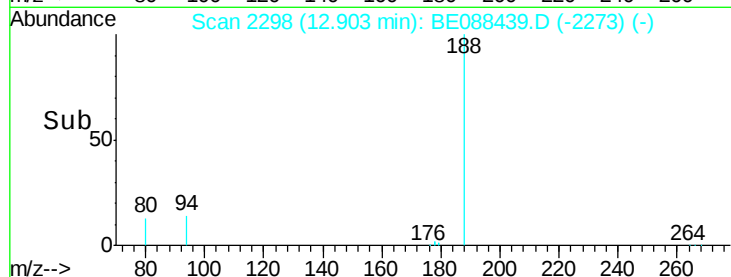
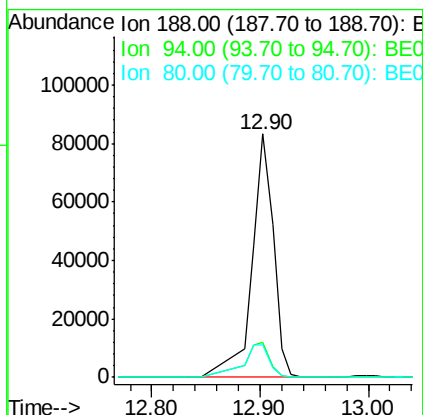
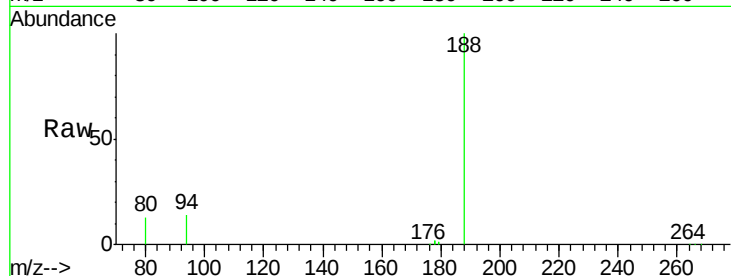




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.90 min Scan# 2298
Delta R.T. 0.00 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

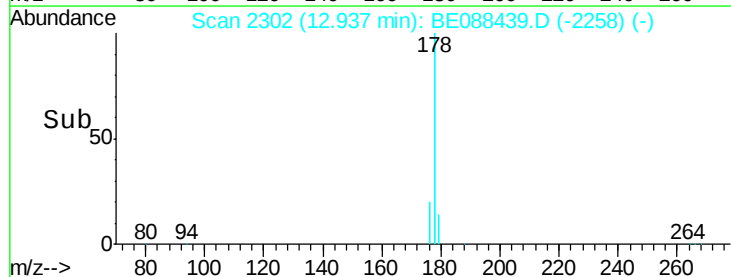
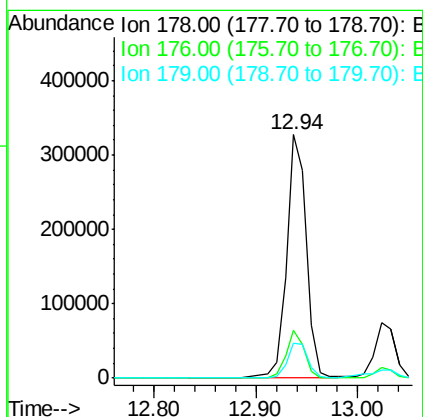
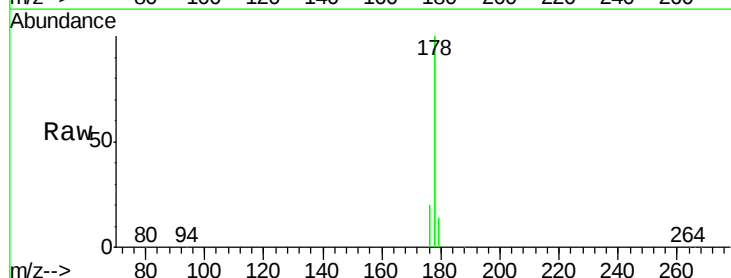
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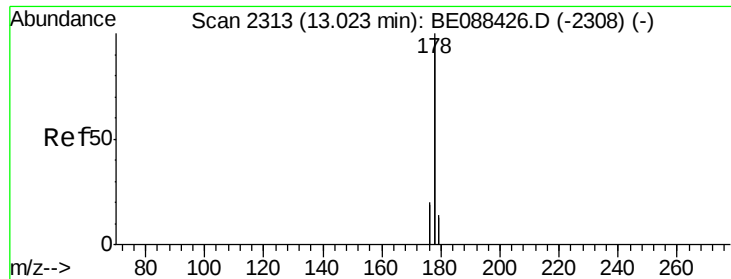
Tgt Ion:188 Resp: 139493
Ion Ratio Lower Upper
188 100
94 14.4 11.8 17.8
80 13.1 10.9 16.3



#13
Phenanthrene
Concen: 4.57 ng
RT: 12.94 min Scan# 2302
Delta R.T. 0.00 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

Tgt Ion:178 Resp: 578838
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.8 12.8 19.2





#14

Anthracene

Concen: 5.66 ng

RT: 12.94 min Scan# 2302

Delta R.T. -0.09 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

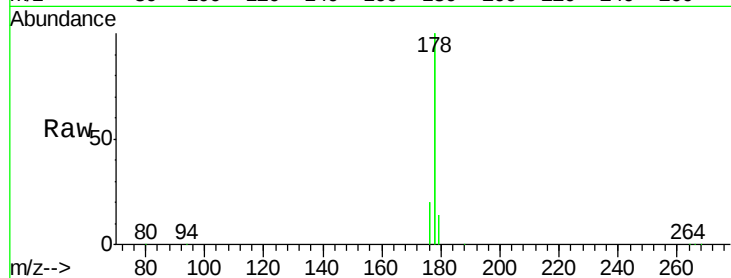
Tgt Ion:178 Resp: 578838

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

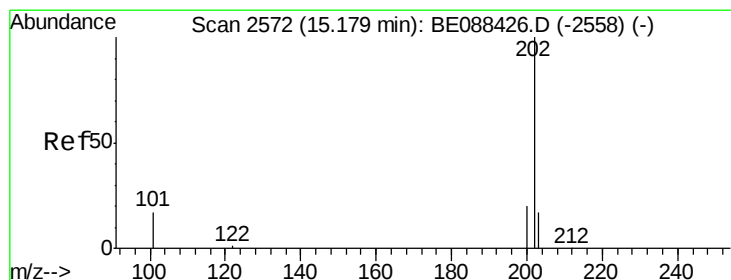
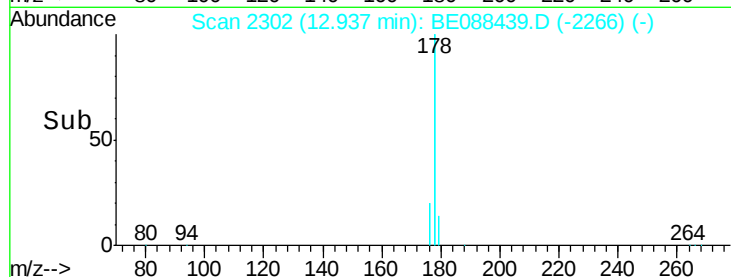
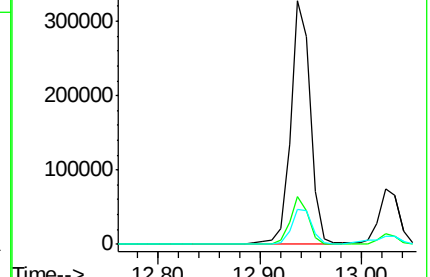
179 15.8 12.5 18.7



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: 5.75 ng

RT: 15.18 min Scan# 2571

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

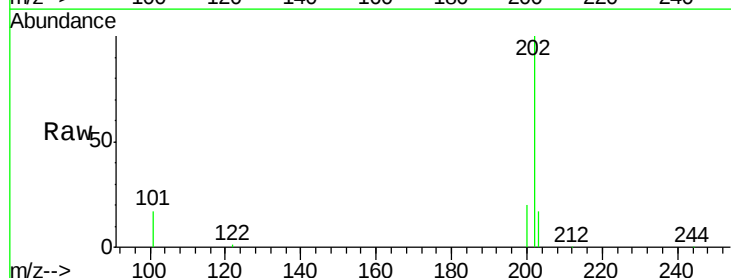
Tgt Ion:202 Resp: 118232

Ion Ratio Lower Upper

202 100

101 17.6 14.3 21.5

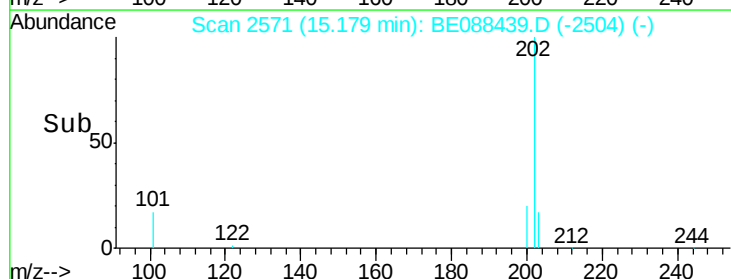
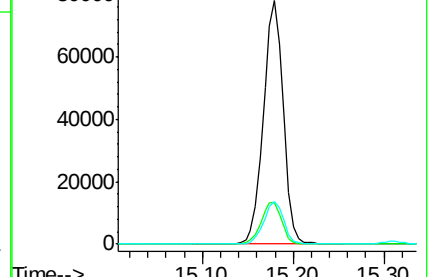
203 17.2 13.6 20.4

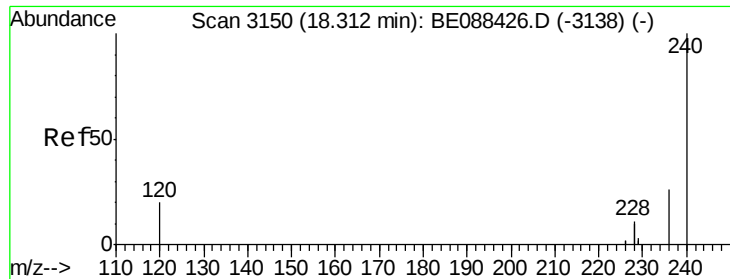


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.31 min Scan# 3149

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

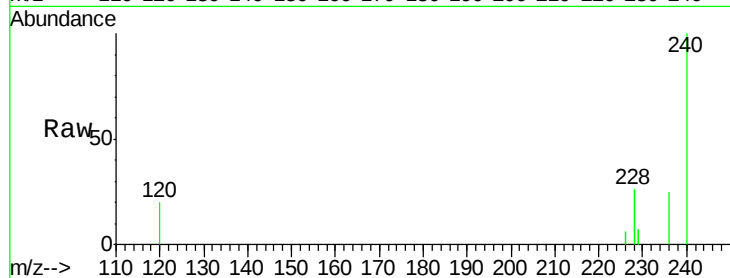
Tgt Ion:240 Resp: 69892

Ion Ratio Lower Upper

240 100

120 19.5 16.4 24.6

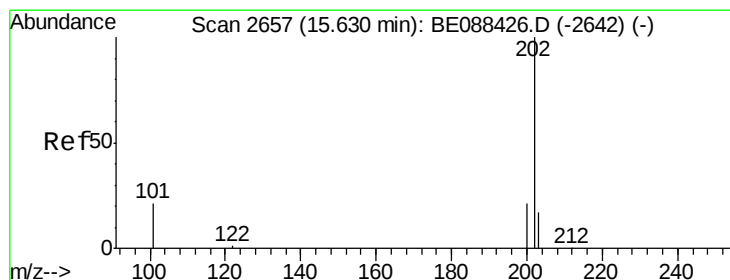
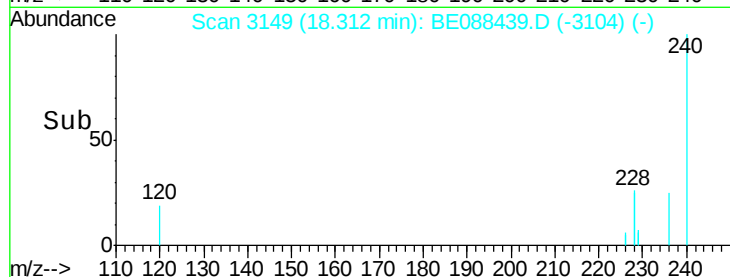
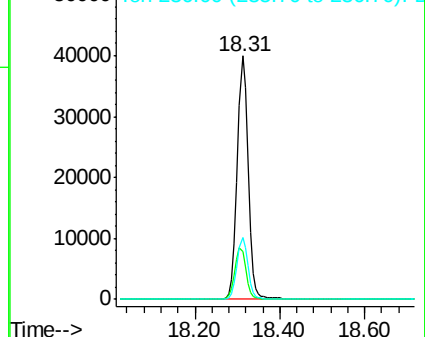
236 25.2 20.5 30.7



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: 5.14 ng

RT: 15.18 min Scan# 2571

Delta R.T. -0.45 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

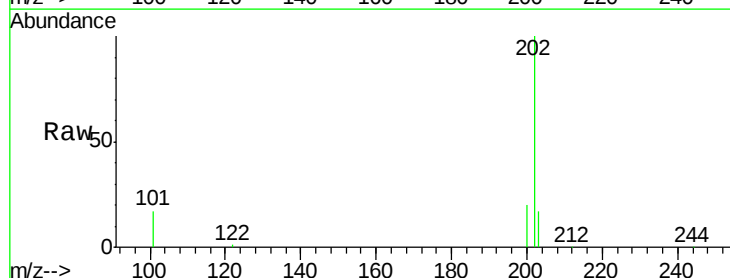
Tgt Ion:202 Resp: 117227

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

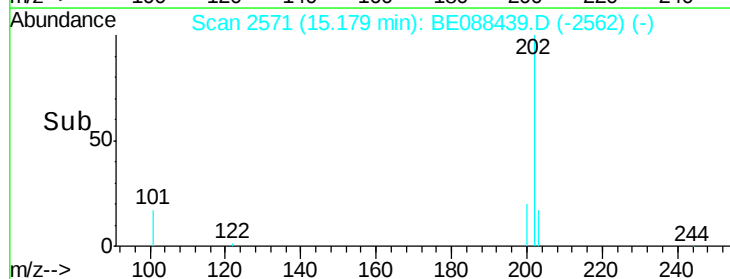
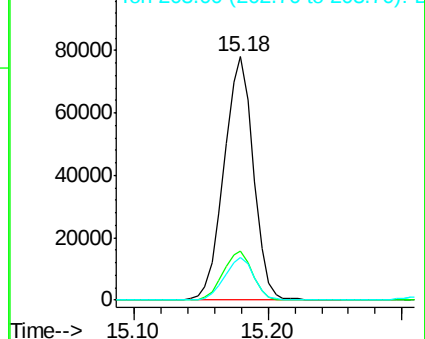
203 17.4 13.8 20.8

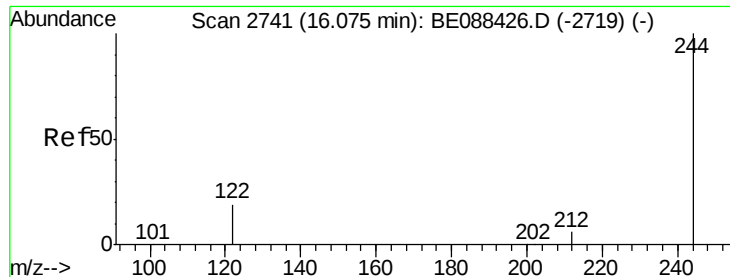


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 10.02 ng

RT: 16.08 min Scan# 2740

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

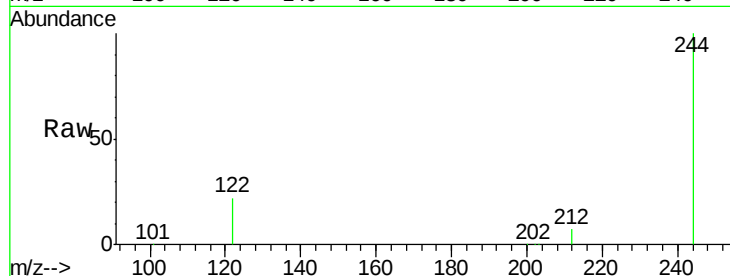
Tgt Ion:244 Resp: 128673

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

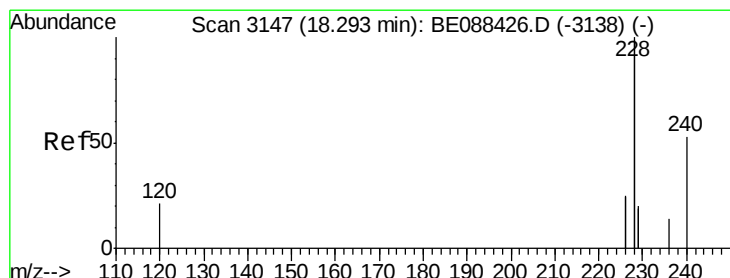
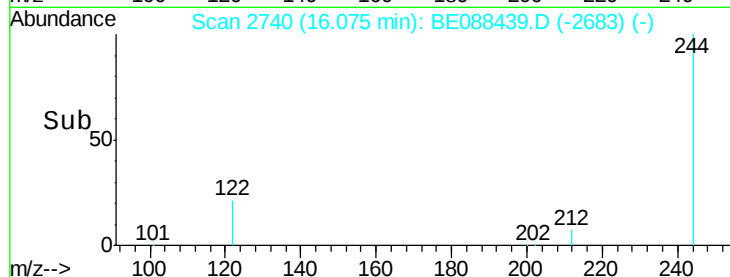
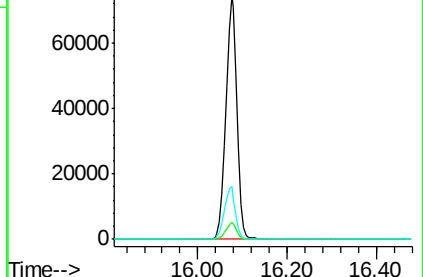
122 21.5 15.6 23.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#19

Benzo(a)anthracene

Concen: 2.58 ng

RT: 18.29 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

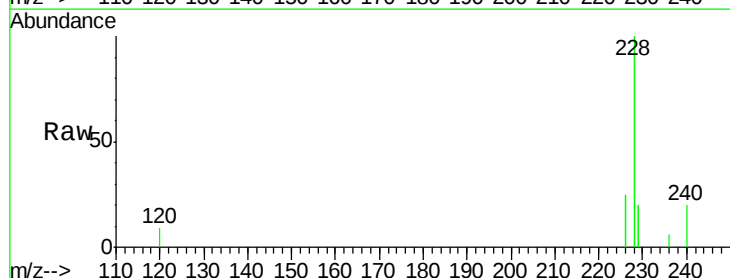
Tgt Ion:228 Resp: 169782

Ion Ratio Lower Upper

228 100

226 25.2 19.8 29.6

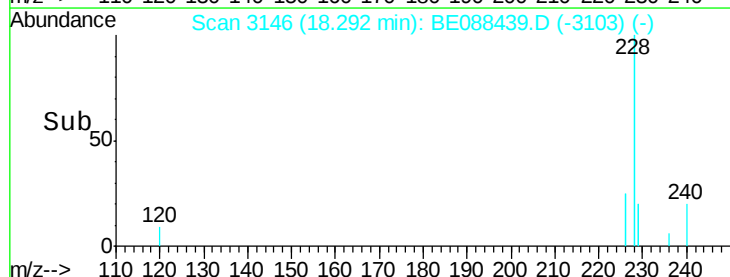
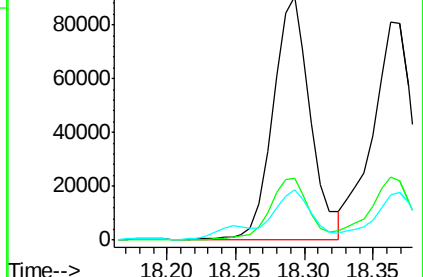
229 20.5 16.0 24.0

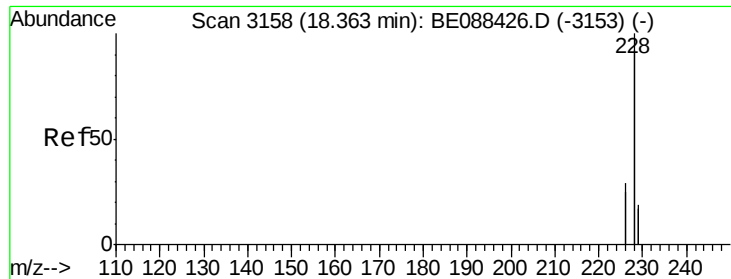


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 2.54 ng

RT: 18.36 min Scan# 3157

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

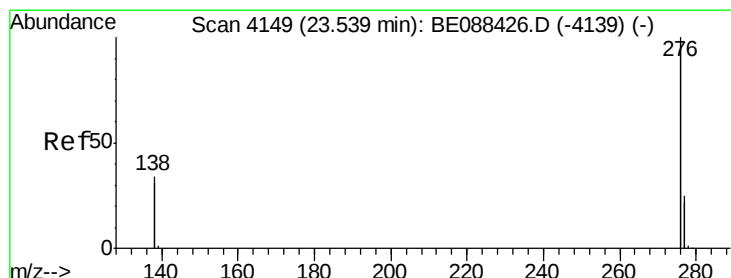
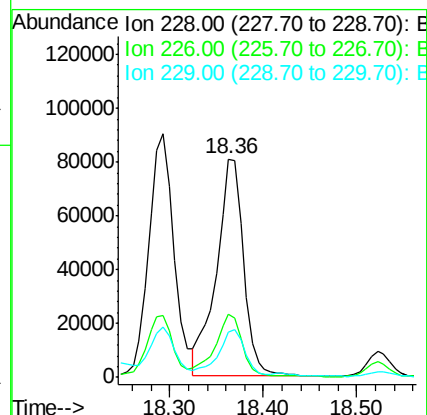
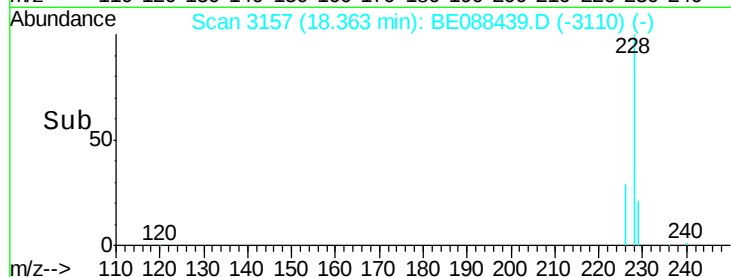
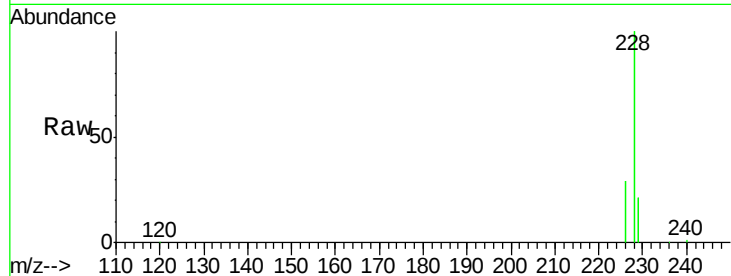
Tgt Ion:228 Resp: 164211

Ion Ratio Lower Upper

228 100

226 28.8 23.6 35.4

229 20.9 15.4 23.2



#21

Indeno(1,2,3-cd)pyrene

Concen: 1.37 ng

RT: 23.55 min Scan# 4149

Delta R.T. 0.01 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

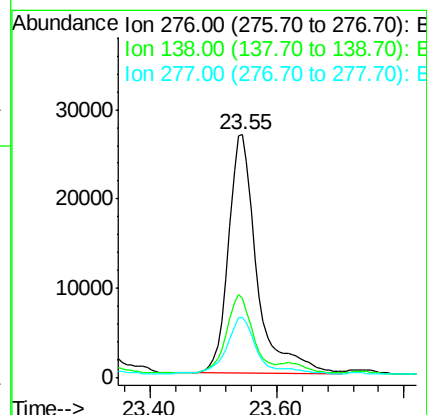
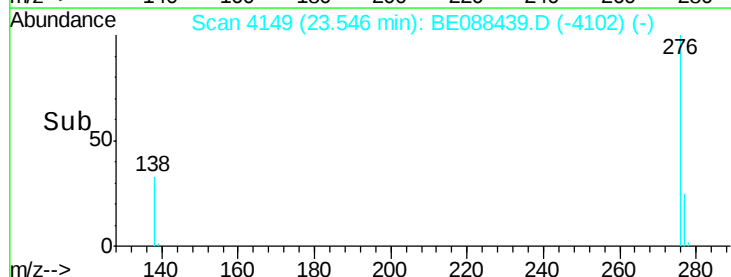
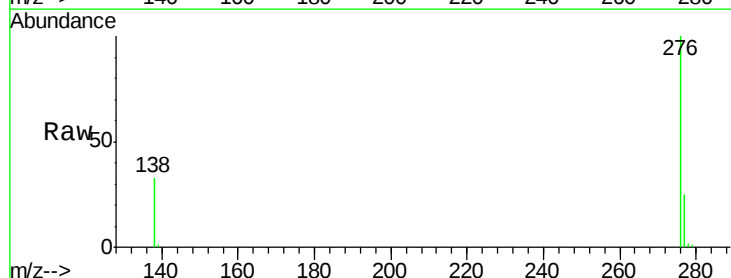
Tgt Ion:276 Resp: 82743

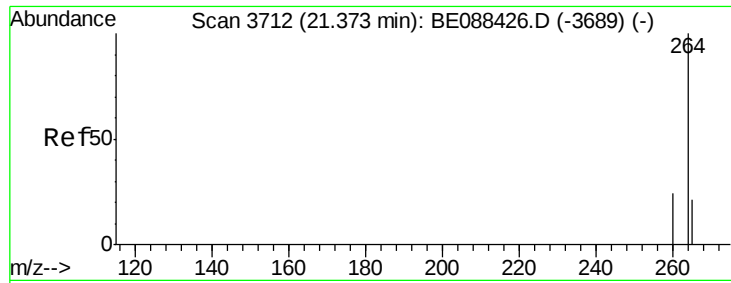
Ion Ratio Lower Upper

276 100

138 30.1 20.2 30.2

277 25.3 14.8 22.2#



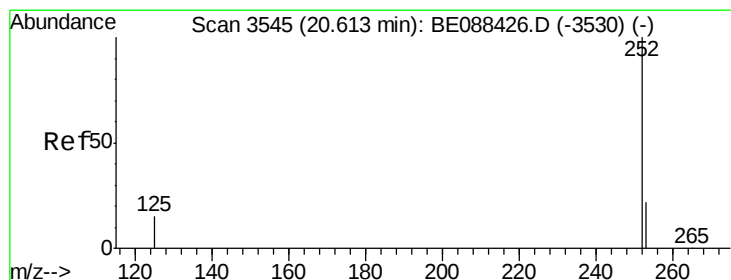
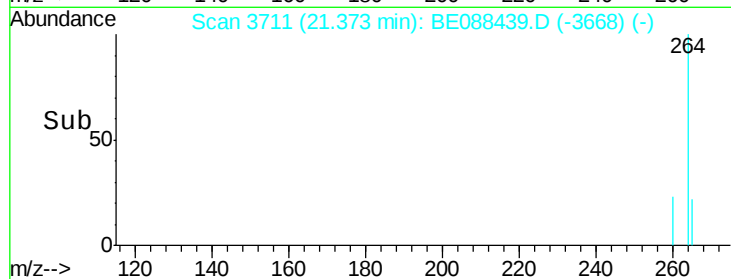
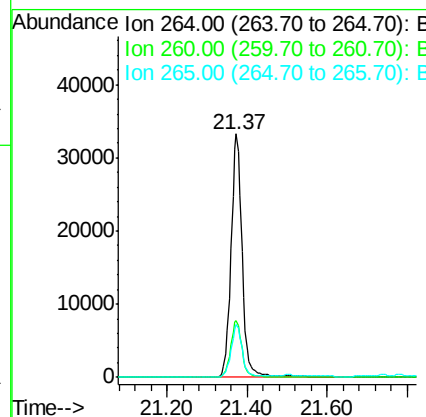
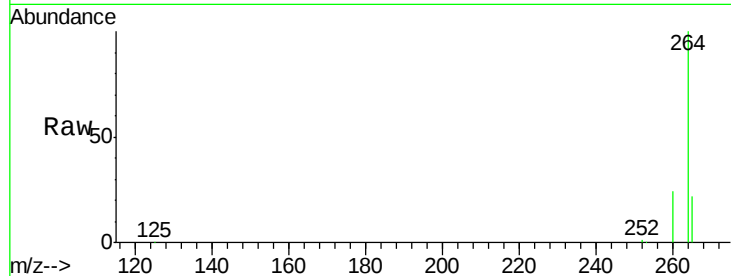


#22
Perylene-d12
Concen: 5.00 ng
RT: 21.37 min Scan# 3711
Delta R.T. 0.00 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

Instrument :
BNA_E
ClientSampleId :
YS19-SD02P-1014

Tgt Ion: 264 Resp: 64436

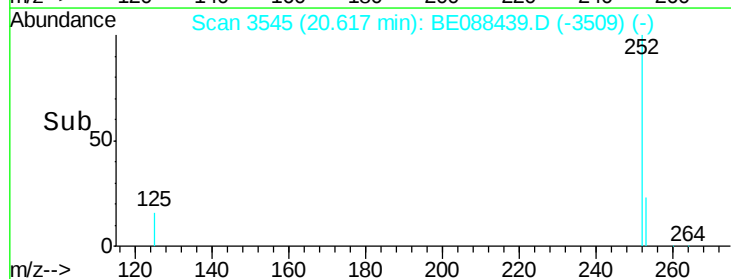
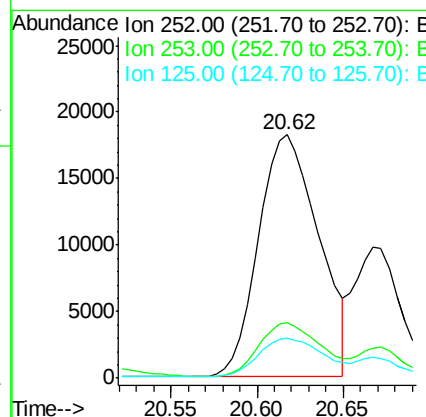
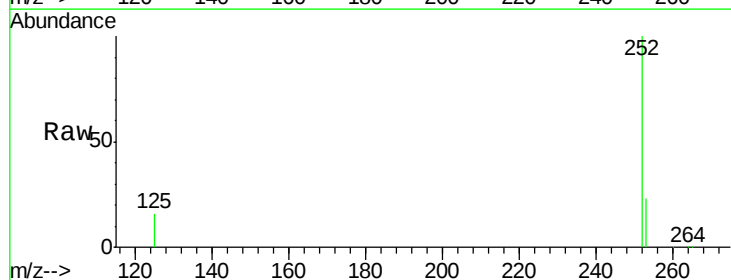
Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.8	17.2	25.8

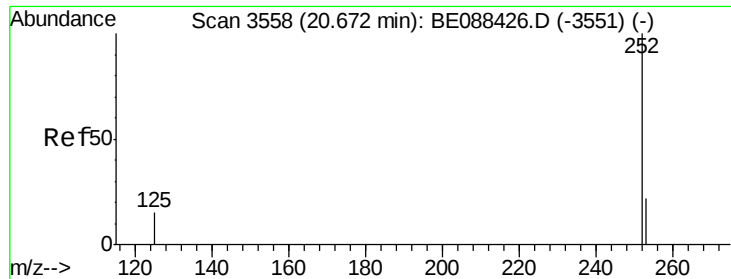


#23
Benzo(b)fluoranthene
Concen: 3.12 ng
RT: 20.62 min Scan# 3545
Delta R.T. 0.00 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

Tgt Ion: 252 Resp: 44146

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	16.3	12.3	18.5





#24

Benzo(k)fluoranthene

Concen: 1.12 ng

RT: 20.67 min Scan# 3556

Delta R.T. -0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

Instrument :

BNA_E

ClientSampleId :

YS19-SD02P-1014

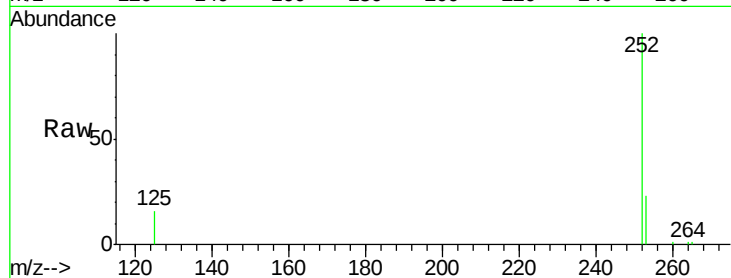
Tgt Ion:252 Resp: 17390

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

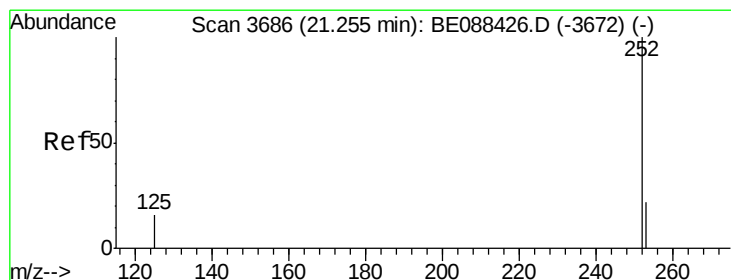
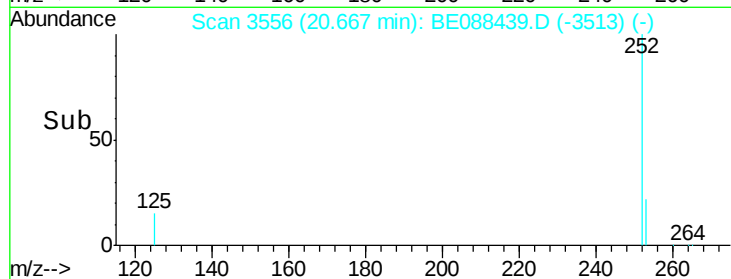
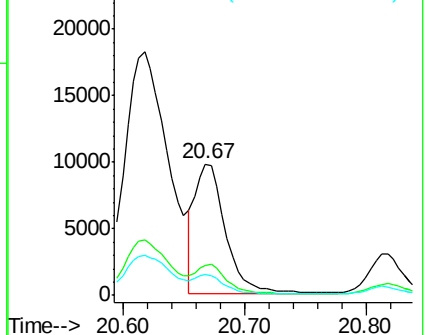
125 16.2 12.2 18.4



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: 2.25 ng

RT: 21.25 min Scan# 3685

Delta R.T. 0.00 min

Lab File: BE088439.D

Acq: 1 Nov 2014 1:25

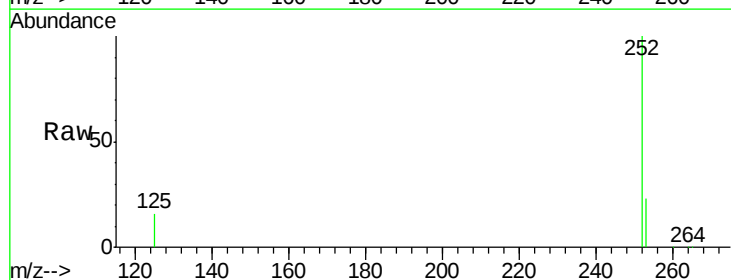
Tgt Ion:252 Resp: 30532

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.4

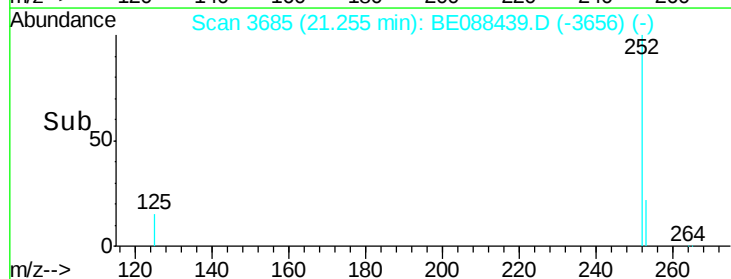
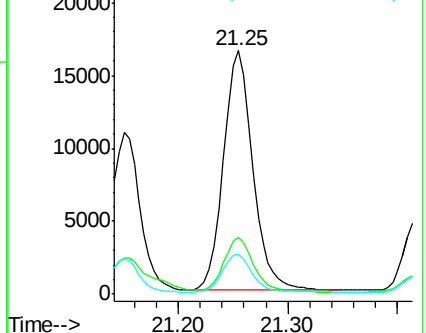
125 16.5 13.7 20.5

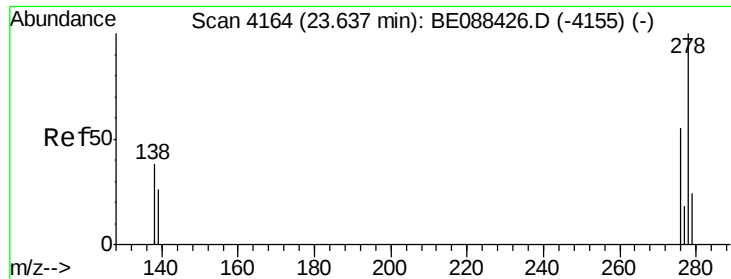


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

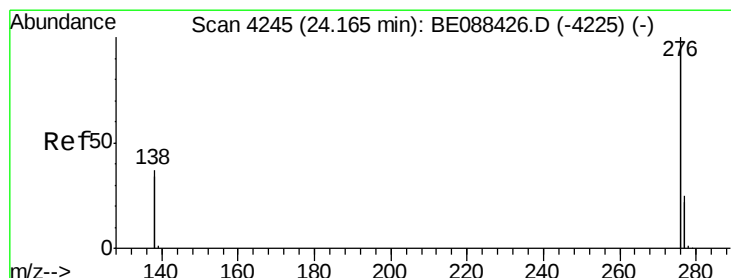
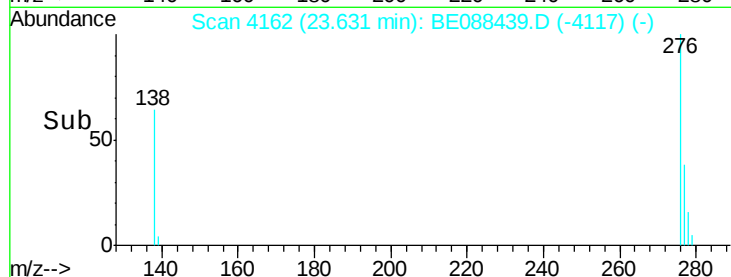
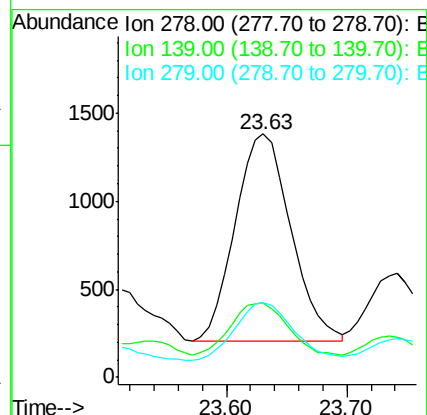
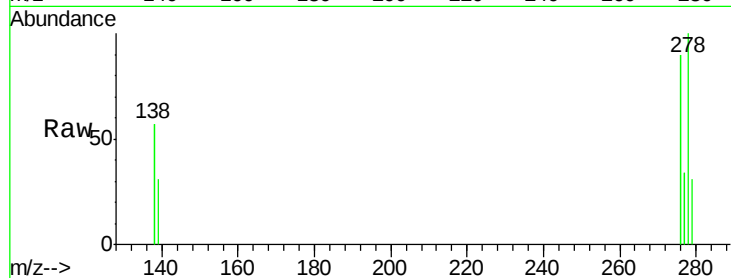




#26
Dibenzo(a,h)anthracene
Concen: 0.30 ng
RT: 23.63 min Scan# 4162
Delta R.T. -0.01 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

Instrument :
BNA_E
ClientSampleId :
YS19-SD02P-1014

Tgt Ion: 278 Resp: 3776
Ion Ratio Lower Upper
278 100
139 30.6 22.1 33.1
279 30.8 19.7 29.5#



#27
Benzo(g,h,i)perylene
Concen: 1.29 ng
RT: 24.17 min Scan# 4244
Delta R.T. 0.00 min
Lab File: BE088439.D
Acq: 1 Nov 2014 1:25

Tgt Ion: 276 Resp: 74475
Ion Ratio Lower Upper
276 100
277 24.6 19.8 29.6
138 35.5 29.3 43.9

