

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088452.D
 Acq On : 1 Nov 2014 8:40
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Nov 02 04:17:00 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	21559	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	90965	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	43497	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	80631	5.00	ng	0.00
16) Chrysene-d12	18.33	240	35892	5.00	ng	0.02
22) Perylene-d12	21.39	264	34779	5.00	ng	0.02

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	42386	6.35	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	122260	9.97	ng	0.00
18) Terphenyl-d14	16.09	244	73955	11.22	ng	0.02

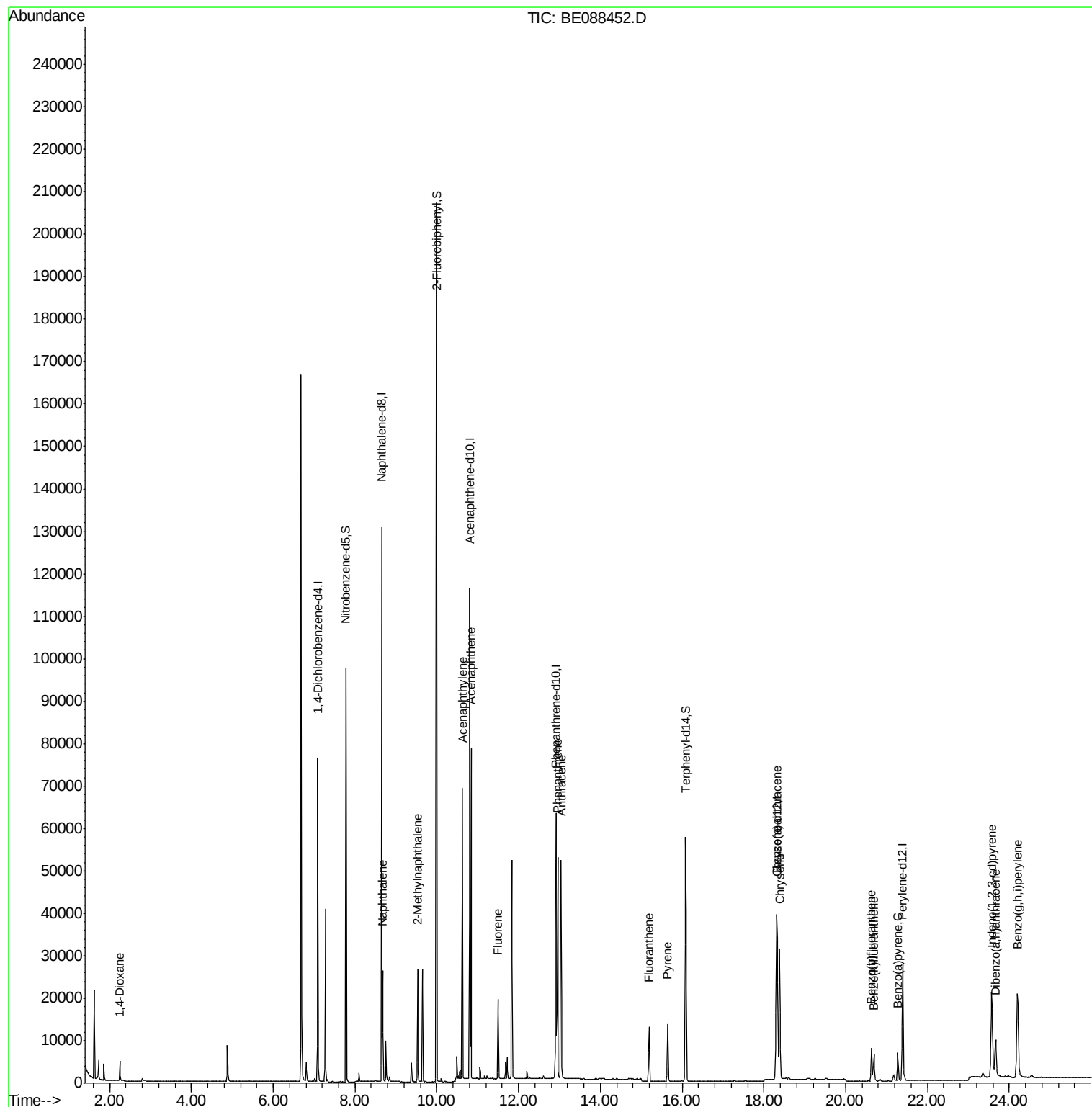
Target Compounds					Qvalue	
2) 1,4-Dioxane	2.25	88	2679	0.95	ng	98
5) Naphthalene	8.68	128	18158	0.96	ng	98
6) 2-Methylnaphthalene	9.53	142	11170	0.96	ng	97
9) Acenaphthylene	10.63	152	65558	0.93	ng	99
10) Acenaphthene	10.84	154	9484	0.91	ng	98
11) Fluorene	11.49	166	10081	0.91	ng	99
13) Phenanthrene	12.95	178	69696	0.95	ng	96
14) Anthracene	13.04	178	54298	0.92	ng	100
15) Fluoranthene	15.19	202	12327	1.04	ng	100
17) Pyrene	15.65	202	12551	1.07	ng	99
19) Benzo(a)anthracene	18.31	228	36643	1.08	ng	98
20) Chrysene	18.38	228	36462	1.10	ng	98
21) Indeno(1,2,3-cd)pyrene	23.57	276	35198	1.14	ng	# 87
23) Benzo(b)fluoranthene	20.63	252	10883	1.43	ng	98
24) Benzo(k)fluoranthene	20.69	252	8623	1.03	ng	97
25) Benzo(a)pyrene	21.27	252	8987	1.23	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	6923	1.02	ng	95
27) Benzo(g,h,i)perylene	24.20	276	38890	1.25	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# 1247

Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

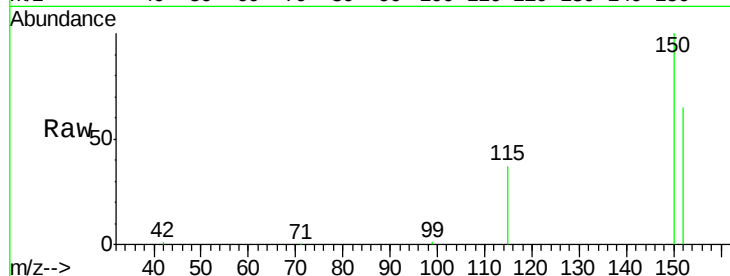
Tgt Ion: 152 Resp: 21559

Ion Ratio Lower Upper

152 100

150 153.4 121.8 182.8

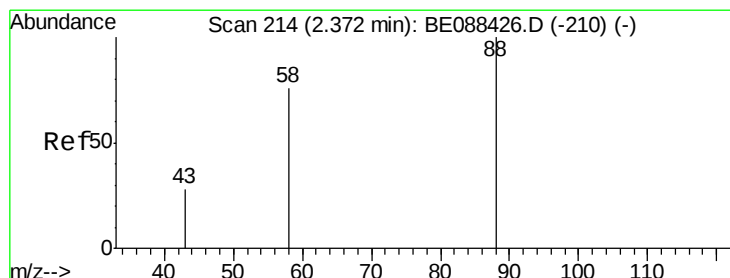
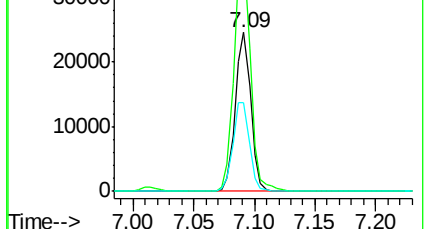
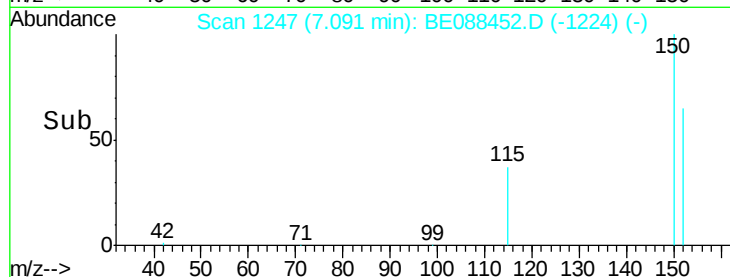
115 56.3 43.9 65.9



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: 0.95 ng

RT: 2.25 min Scan# 187

Delta R.T. -0.13 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

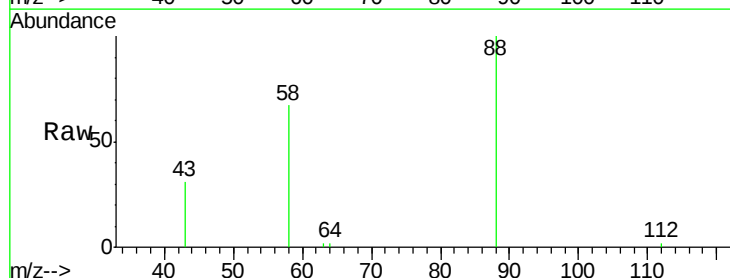
Tgt Ion: 88 Resp: 2679

Ion Ratio Lower Upper

88 100

58 75.7 59.1 88.7

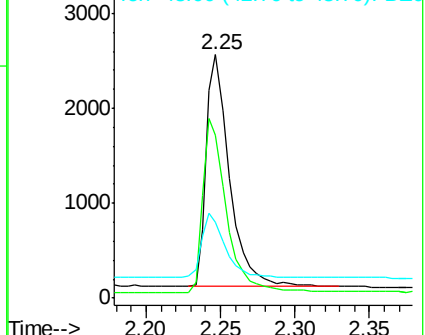
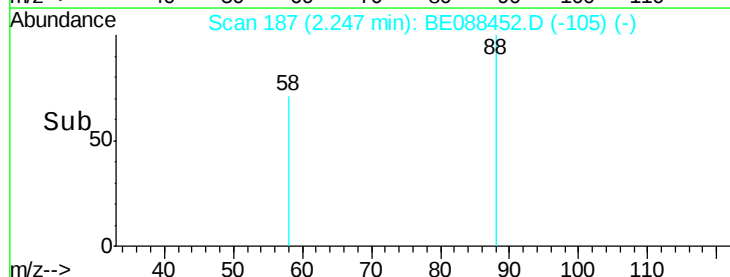
43 27.8 21.9 32.9

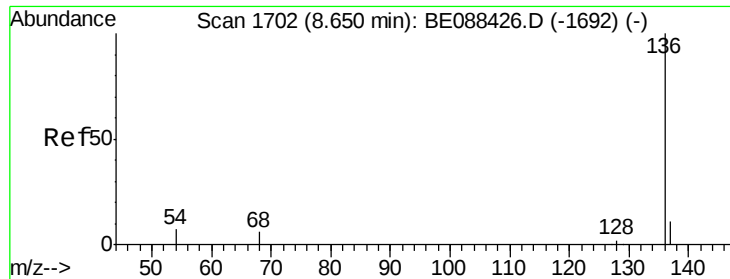


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

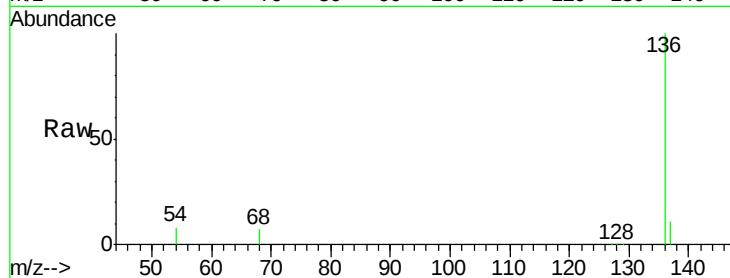




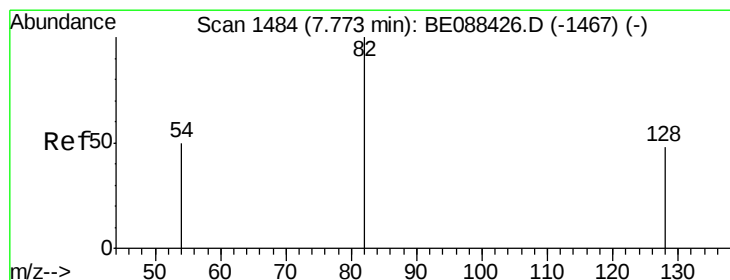
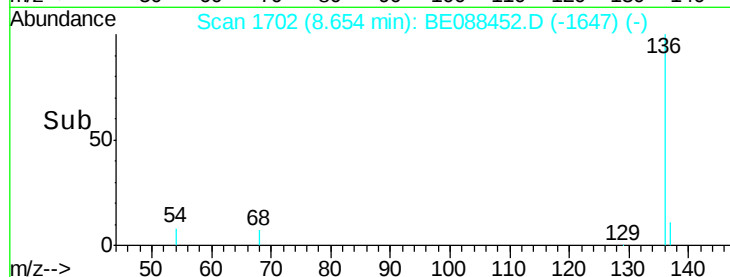
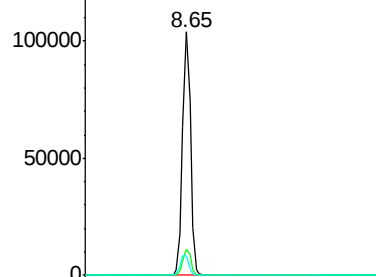
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion: 136 Resp: 90965
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.9 5.3 7.9

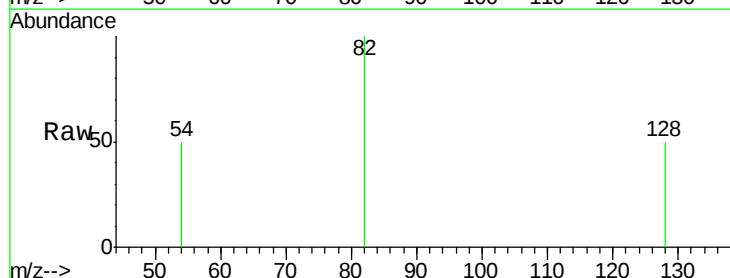


Abundance Ion 136.00 (135.70 to 136.70): BE0
Ion 137.00 (136.70 to 137.70): BE0
Ion 54.00 (53.70 to 54.70): BE0

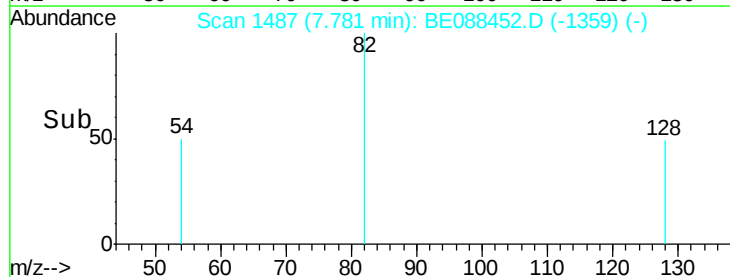
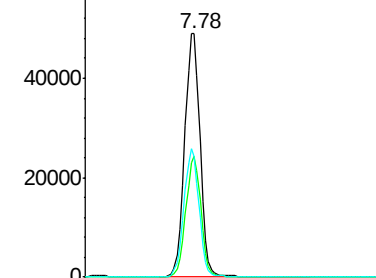


#4
Nitrobenzene-d5
Concen: 6.35 ng
RT: 7.78 min Scan# 1487
Delta R.T. 0.01 min
Lab File: BE088452.D
Acq: 1 Nov 2014 8:40

Tgt Ion: 82 Resp: 42386
Ion Ratio Lower Upper
82 100
128 49.5 38.4 57.6
54 49.7 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: 0.96 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

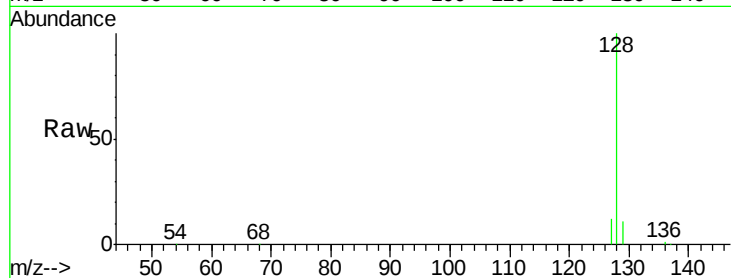
Tgt Ion:128 Resp: 18158

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

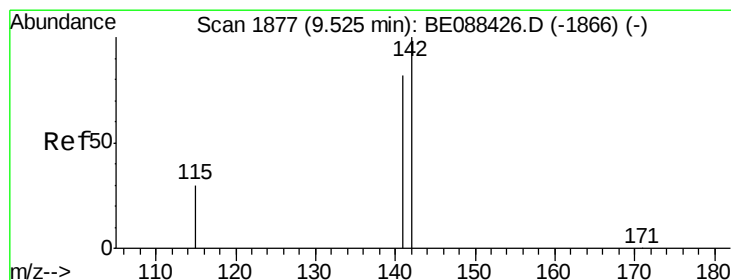
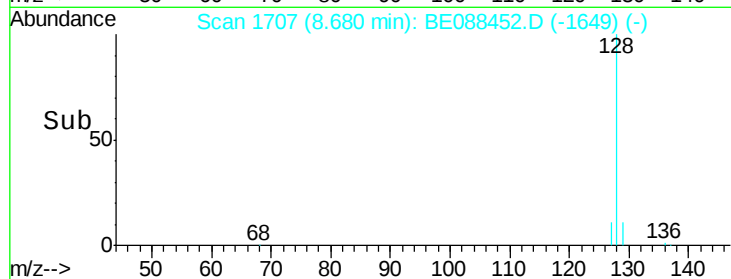
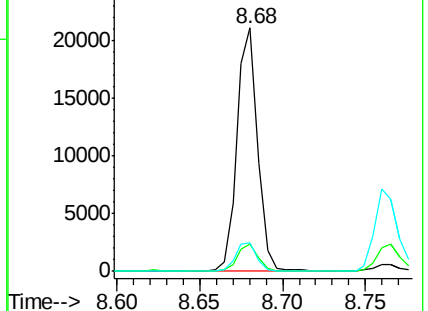
127 11.6 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 0.96 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

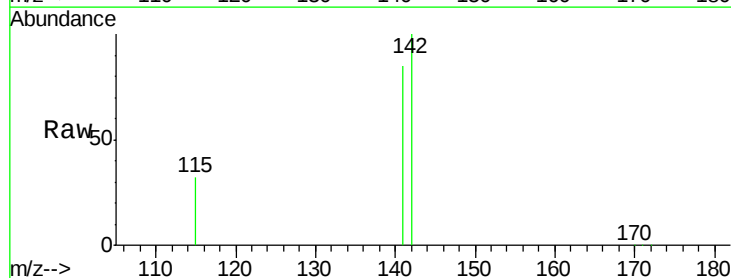
Tgt Ion:142 Resp: 11170

Ion Ratio Lower Upper

142 100

141 85.1 65.8 98.8

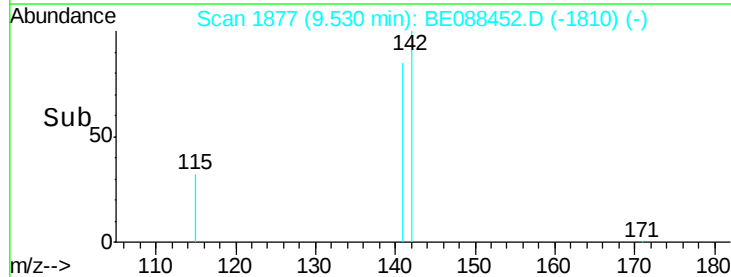
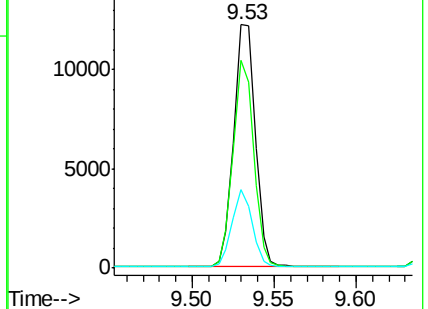
115 32.4 24.2 36.4



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: 10.80 min Scan# 2109

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

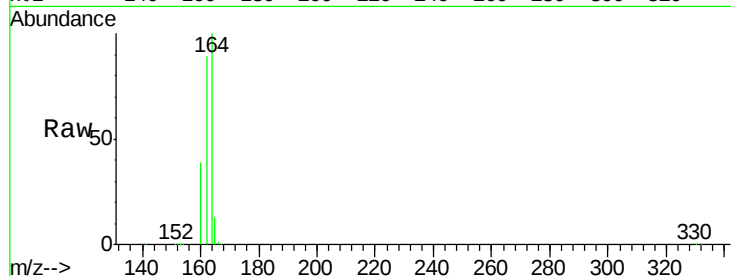
Tgt Ion:164 Resp: 43497

Ion Ratio Lower Upper

164 100

162 89.1 77.0 115.4

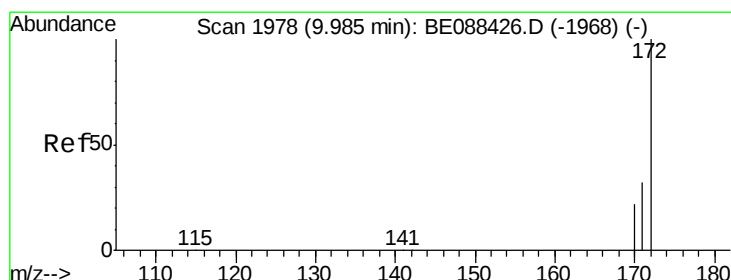
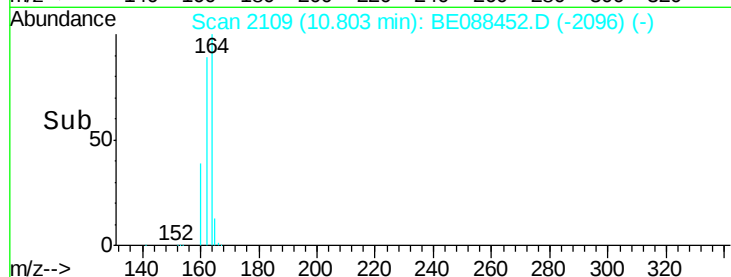
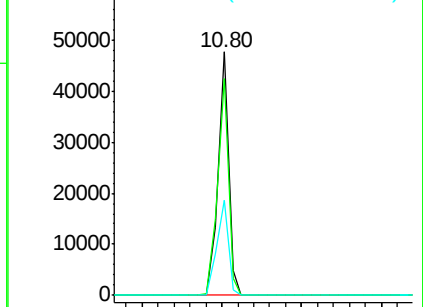
160 39.3 36.8 55.2



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: 9.97 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

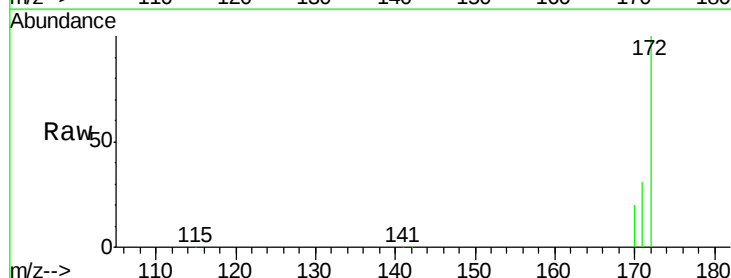
Tgt Ion:172 Resp: 122260

Ion Ratio Lower Upper

172 100

171 31.1 26.0 39.0

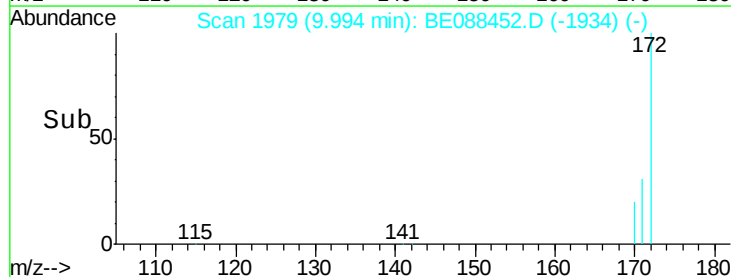
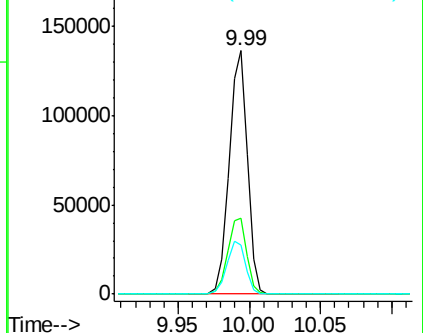
170 20.4 17.6 26.4

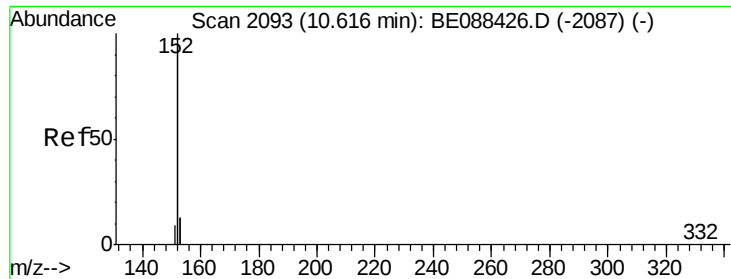


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.93 ng

RT: 10.63 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

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ClientSampleId :

SSTDCCC001EC

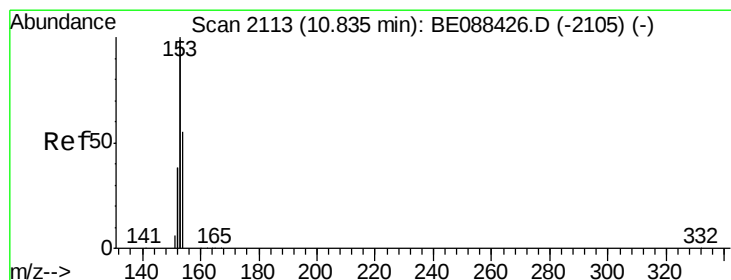
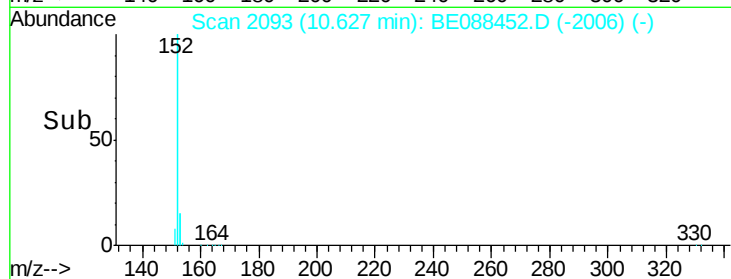
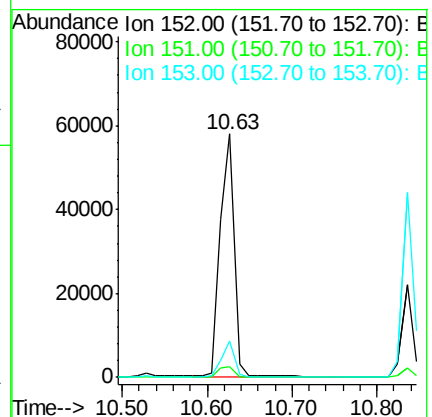
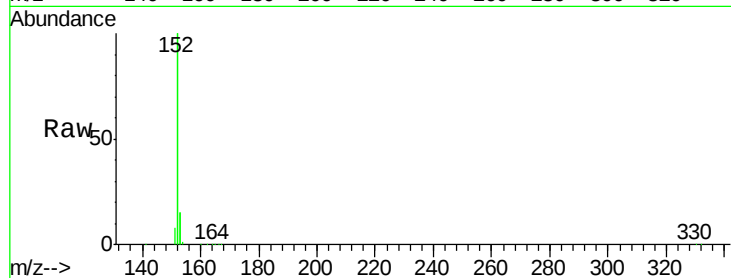
Tgt Ion:152 Resp: 65558

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

153 12.9 10.5 15.7



#10

Acenaphthene

Concen: 0.91 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

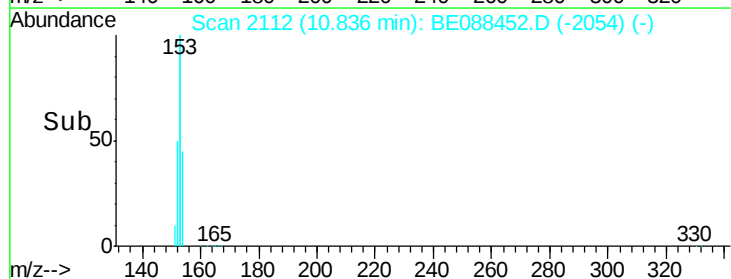
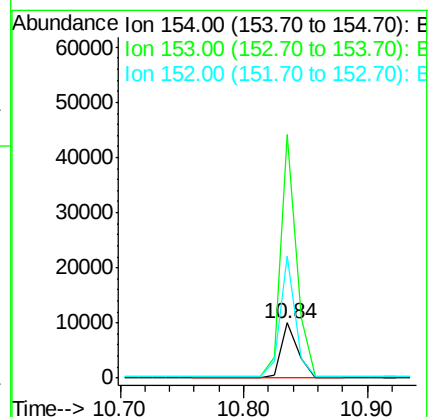
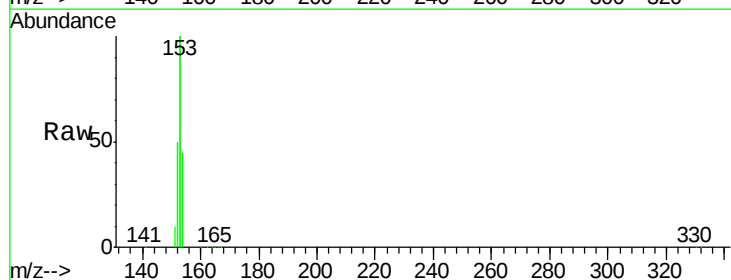
Tgt Ion:154 Resp: 9484

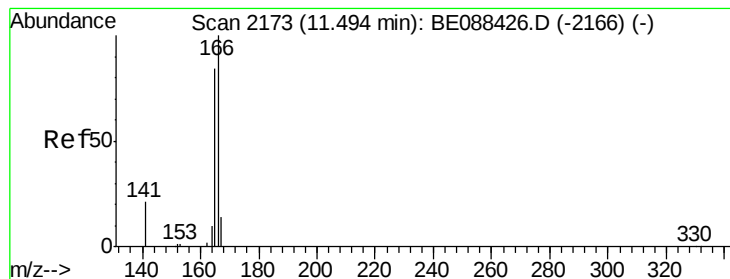
Ion Ratio Lower Upper

154 100

153 409.0 324.3 486.5

152 196.3 154.9 232.3





#11

Fluorene

Concen: 0.91 ng

RT: 11.49 min Scan# 2172

Delta R.T. 0.00 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

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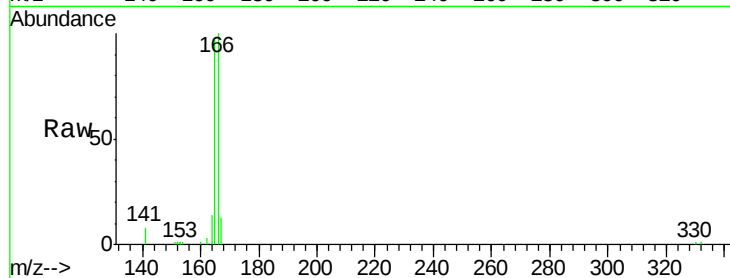
Tgt Ion:166 Resp: 10081

Ion Ratio Lower Upper

166 100

165 90.0 71.3 106.9

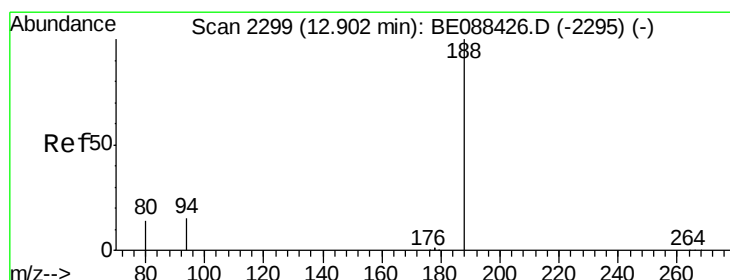
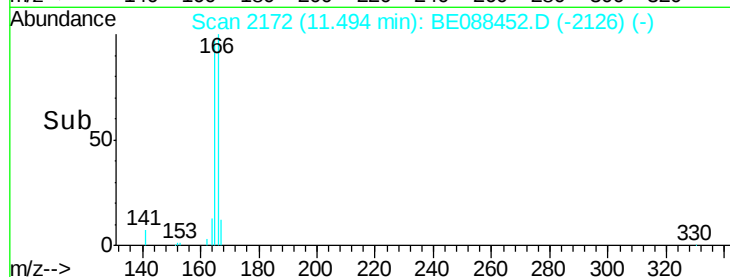
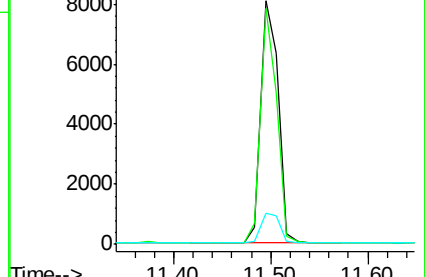
167 13.3 10.7 16.1



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# 2299

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

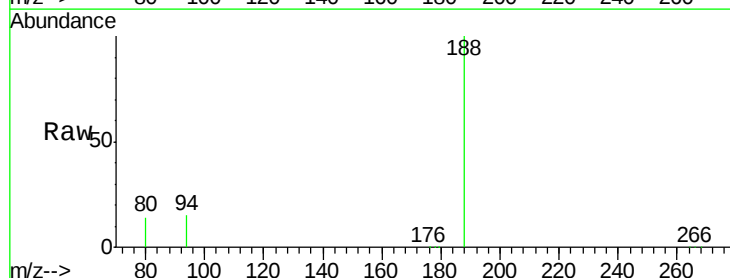
Tgt Ion:188 Resp: 80631

Ion Ratio Lower Upper

188 100

94 15.5 11.8 17.8

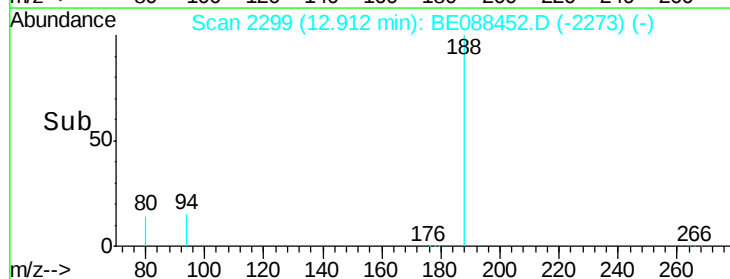
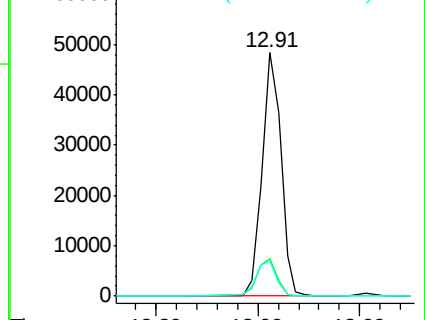
80 14.3 10.9 16.3

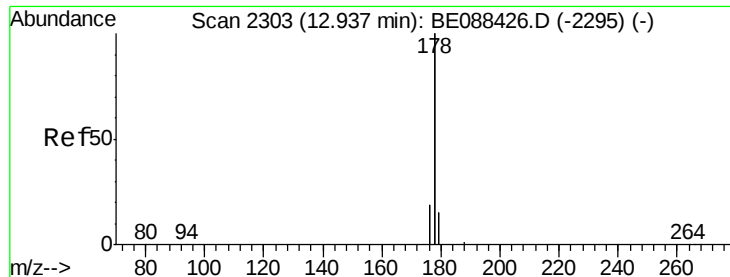


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.95 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

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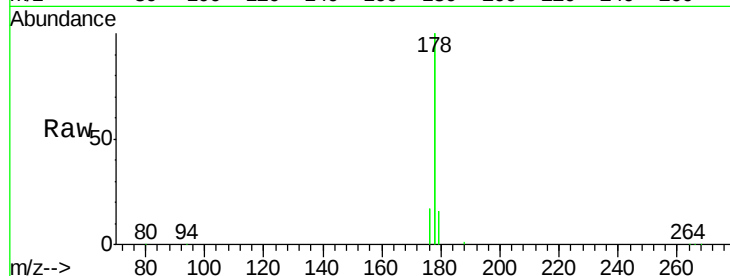
Tgt Ion:178 Resp: 69696

Ion Ratio Lower Upper

178 100

176 20.8 15.4 23.2

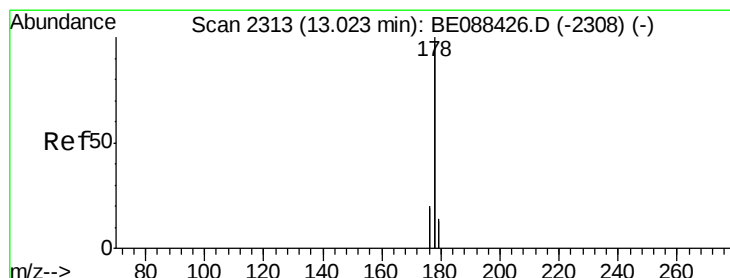
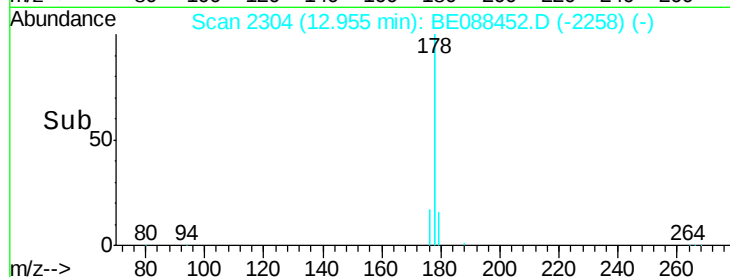
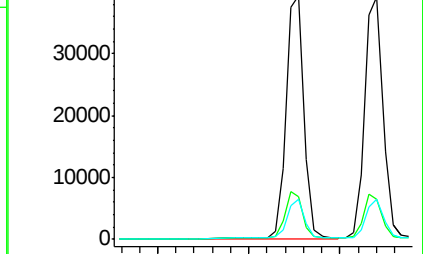
179 18.1 12.8 19.2



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: 0.92 ng

RT: 13.04 min Scan# 2314

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

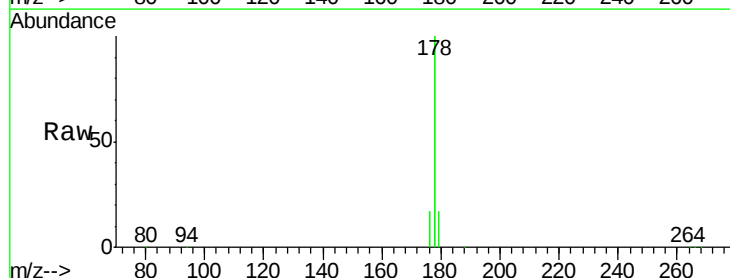
Tgt Ion:178 Resp: 54298

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

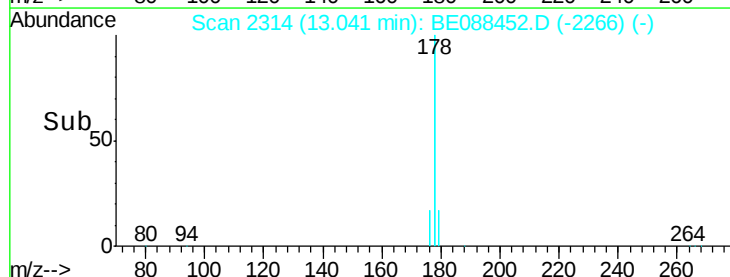
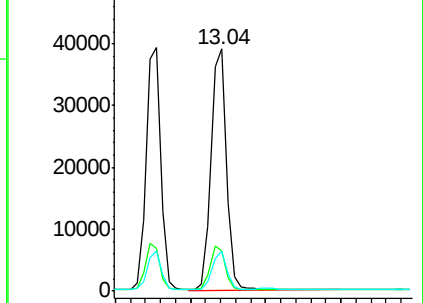
179 15.5 12.5 18.7

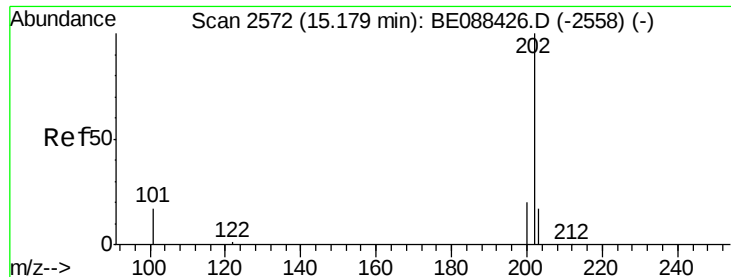


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

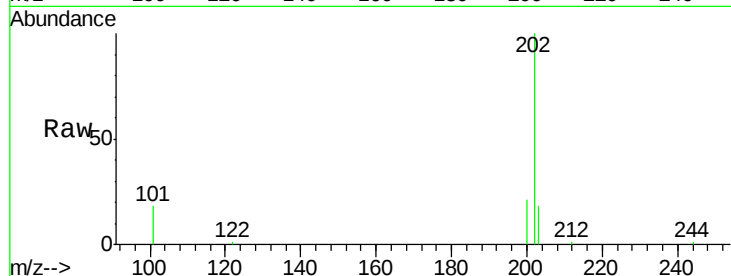




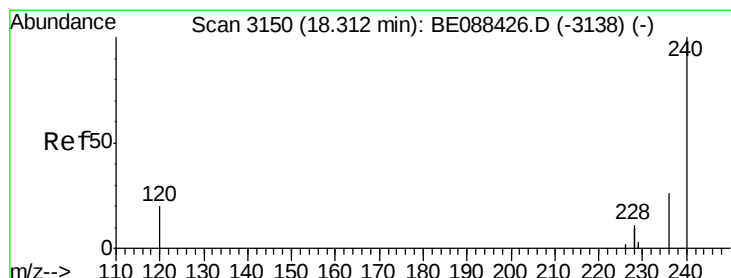
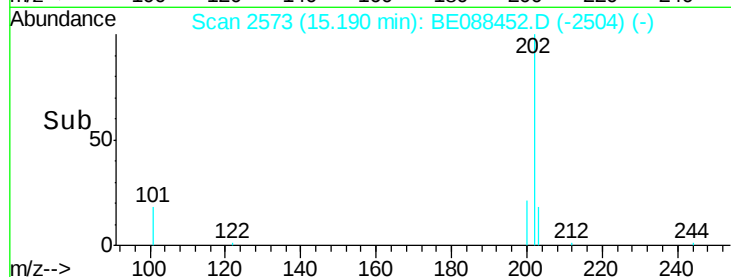
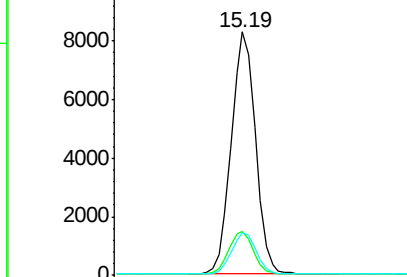
#15
 Fluoranthene
 Concen: 1.04 ng
 RT: 15.19 min Scan# 2573
 Delta R.T. 0.01 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion:202 Resp: 12327
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 17.1 13.6 20.4

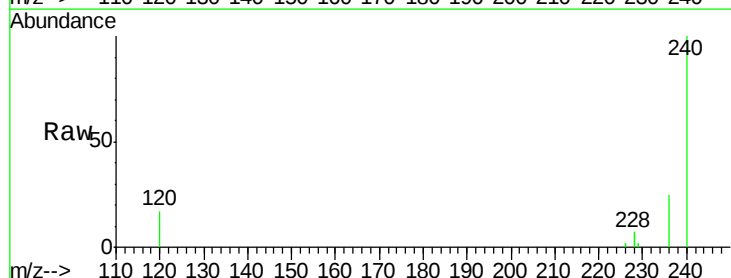


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

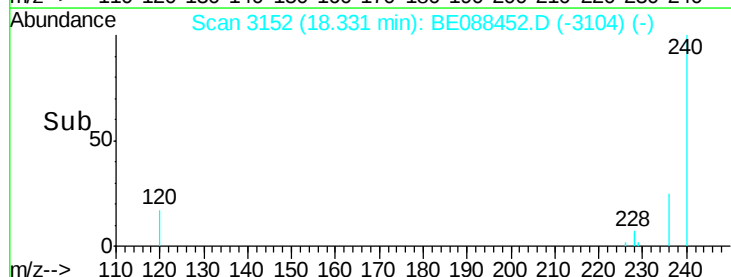
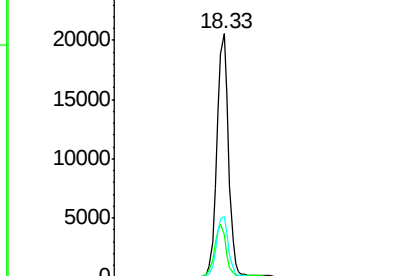


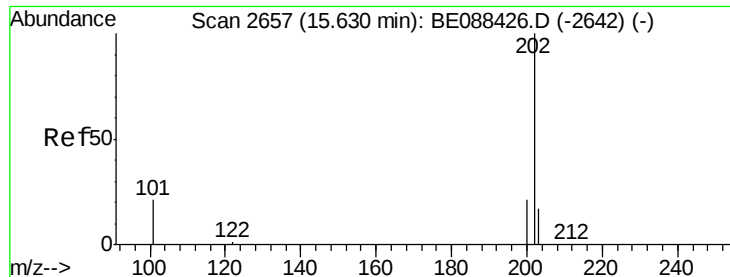
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3152
 Delta R.T. 0.02 min
 Lab File: BE088452.D
 Acq: 1 Nov 2014 8:40

Tgt Ion:240 Resp: 35892
 Ion Ratio Lower Upper
 240 100
 120 17.4 16.4 24.6
 236 25.1 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: 1.07 ng

RT: 15.65 min Scan# 2659

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

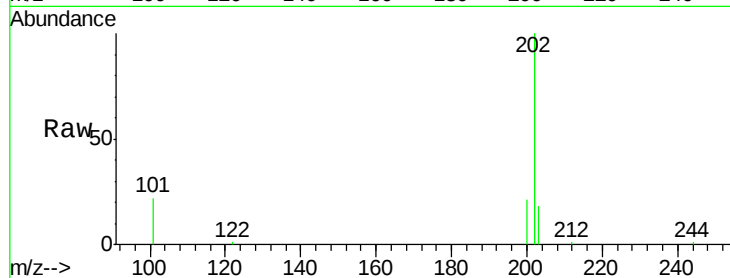
Tgt Ion:202 Resp: 12551

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

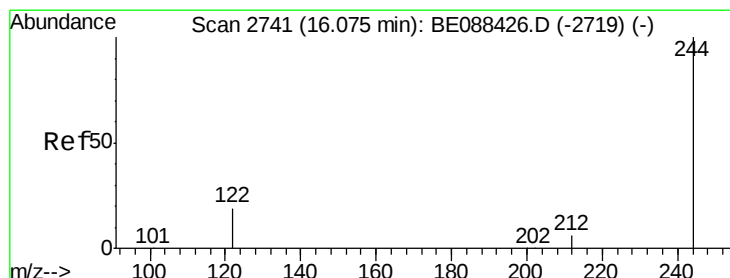
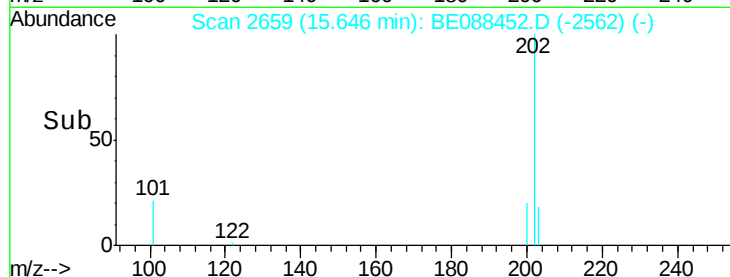
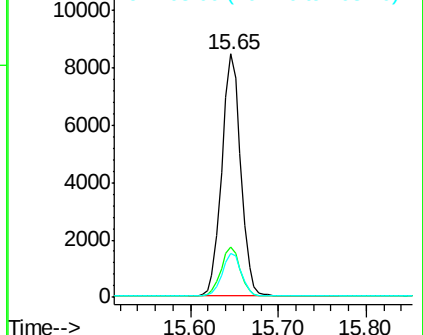
203 17.9 13.8 20.8



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: 11.22 ng

RT: 16.09 min Scan# 2743

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

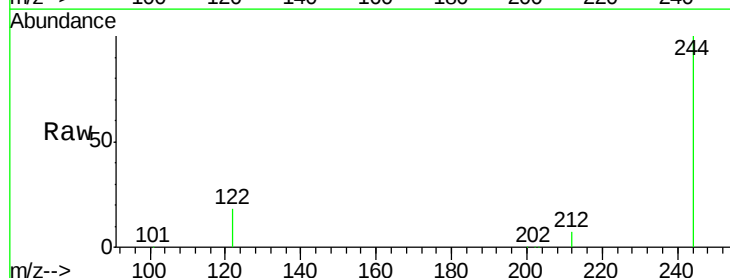
Tgt Ion:244 Resp: 73955

Ion Ratio Lower Upper

244 100

212 6.6 5.5 8.3

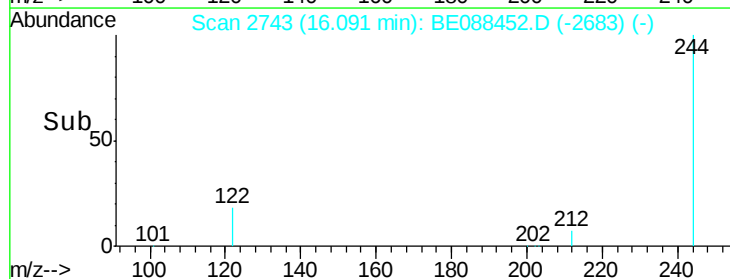
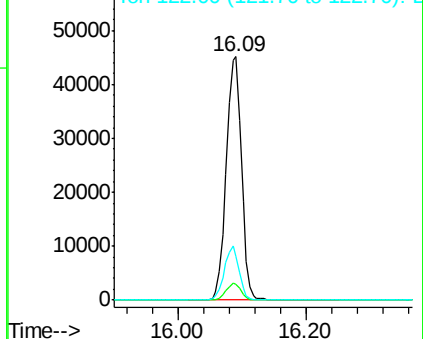
122 17.8 15.6 23.4

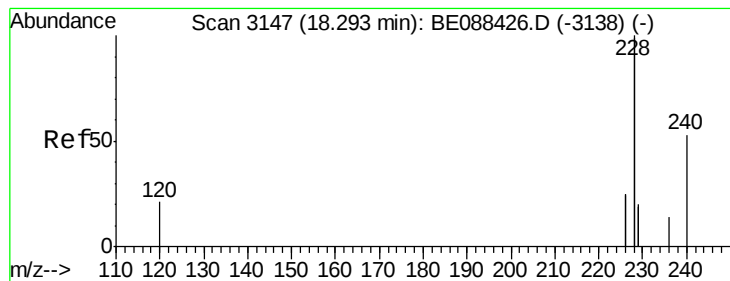


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.08 ng

RT: 18.31 min Scan# 3148

Delta R.T. 0.01 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

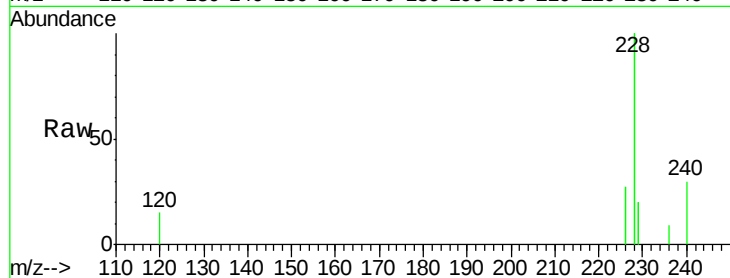
Tgt Ion:228 Resp: 36643

Ion Ratio Lower Upper

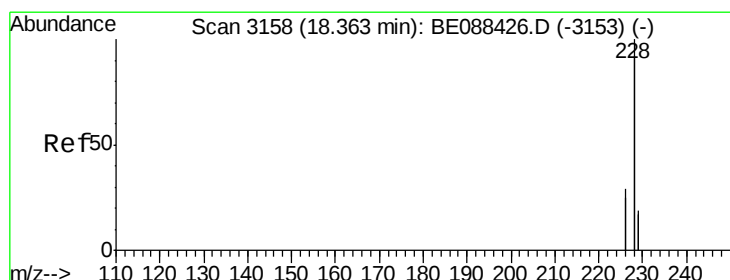
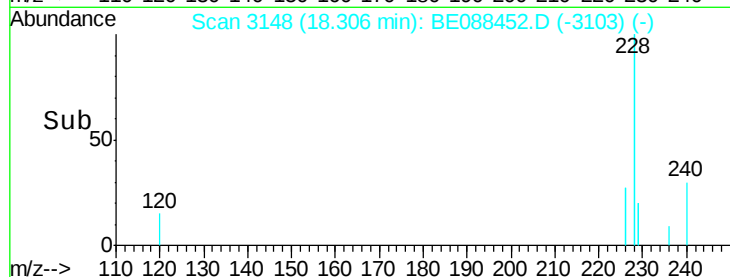
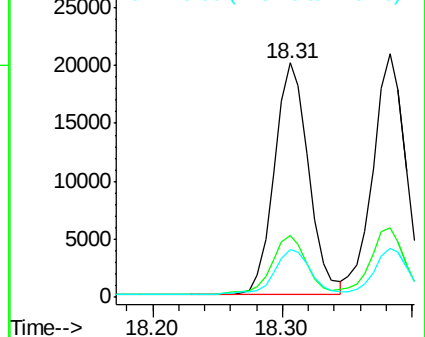
228 100

226 26.6 19.8 29.6

229 20.1 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: 1.10 ng

RT: 18.38 min Scan# 3160

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

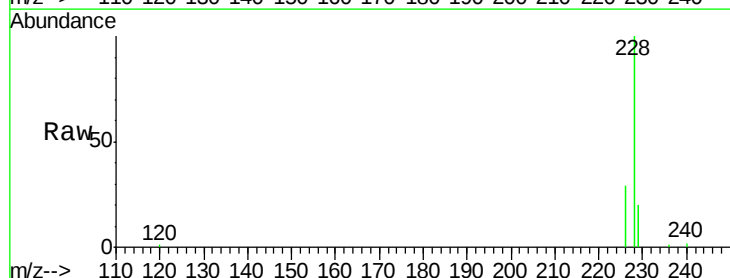
Tgt Ion:228 Resp: 36462

Ion Ratio Lower Upper

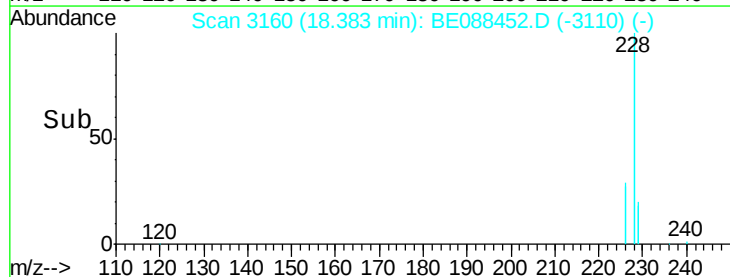
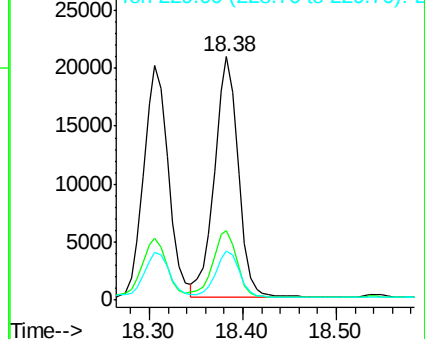
228 100

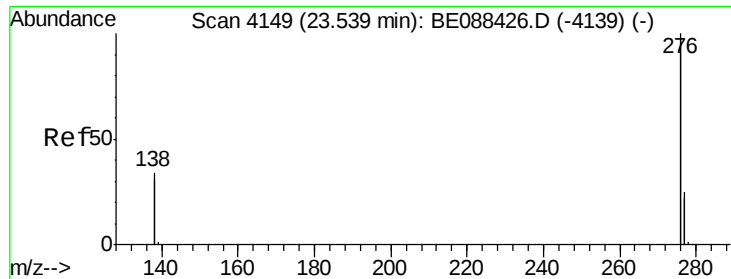
226 28.6 23.6 35.4

229 20.3 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: 1.14 ng

RT: 23.57 min Scan# 4153

Delta R.T. 0.03 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

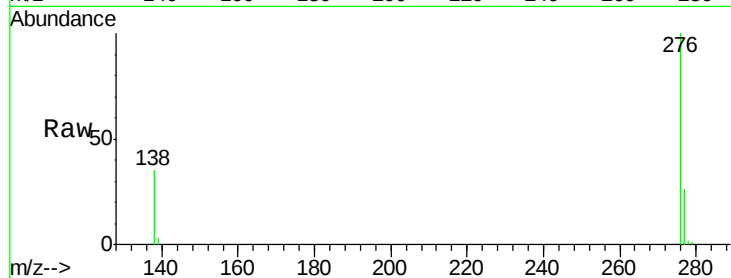
Tgt Ion:276 Resp: 35198

Ion Ratio Lower Upper

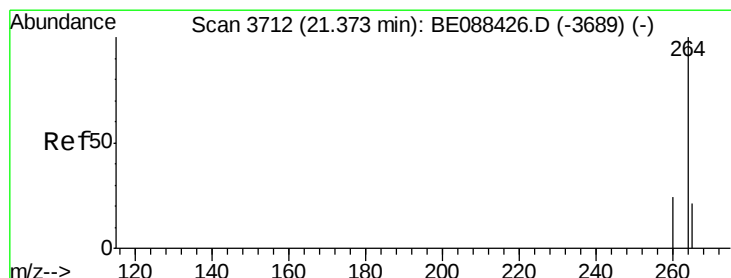
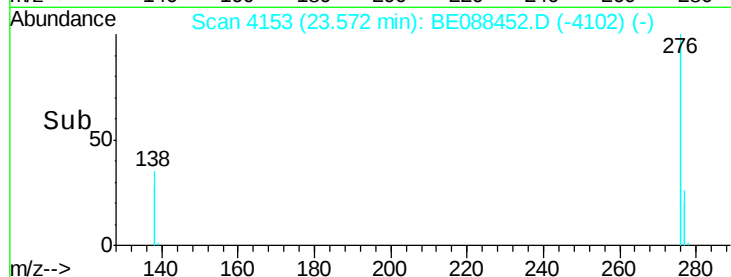
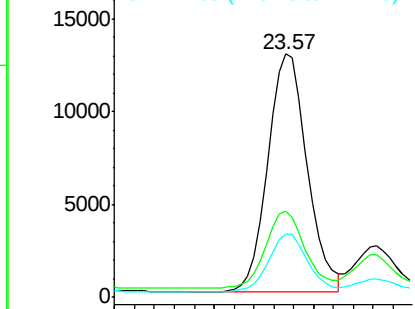
276 100

138 32.3 20.2 30.2#

277 23.6 14.8 22.2#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.39 min Scan# 3715

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

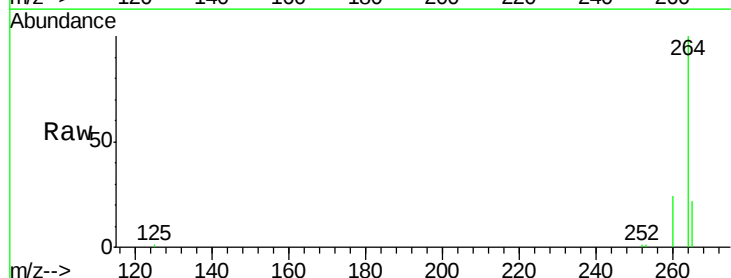
Tgt Ion:264 Resp: 34779

Ion Ratio Lower Upper

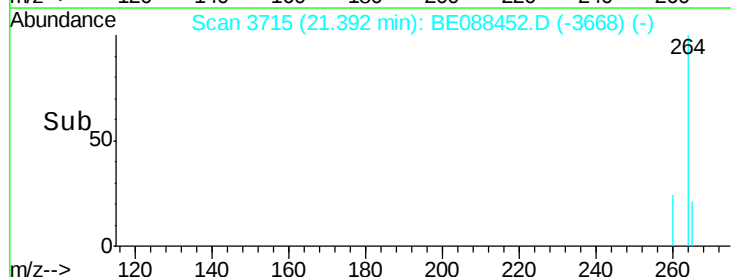
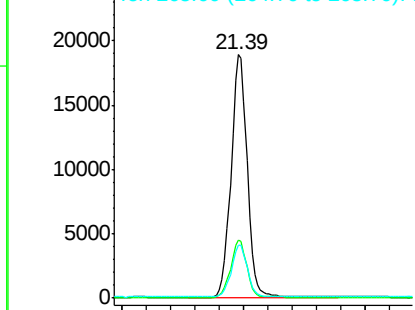
264 100

260 24.0 18.9 28.3

265 21.6 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: 1.43 ng

RT: 20.63 min Scan# 3548

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

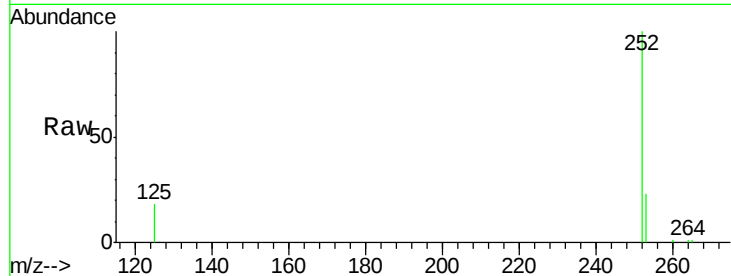
Tgt Ion:252 Resp: 10883

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

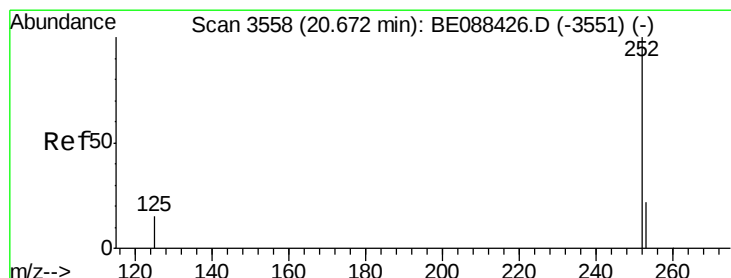
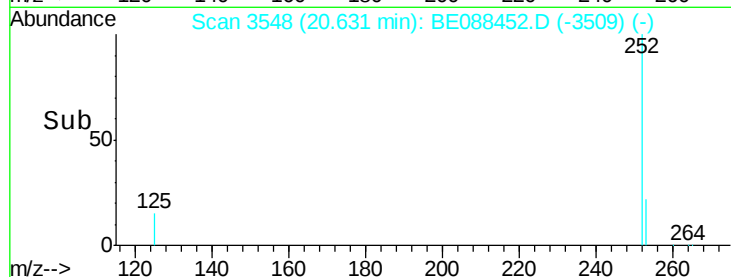
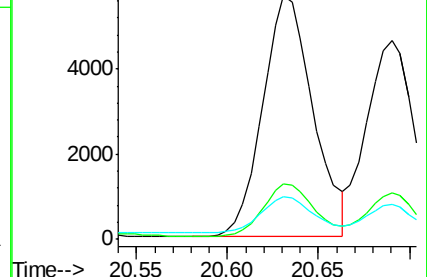
125 17.6 12.3 18.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 1.03 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

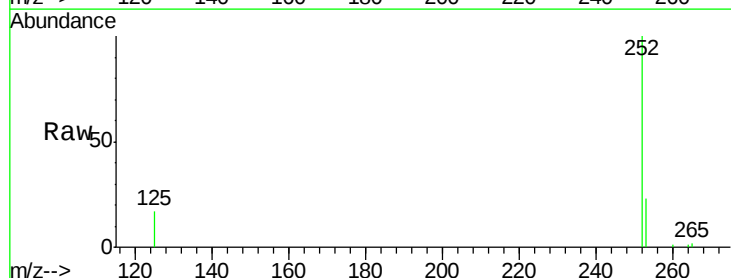
Tgt Ion:252 Resp: 8623

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

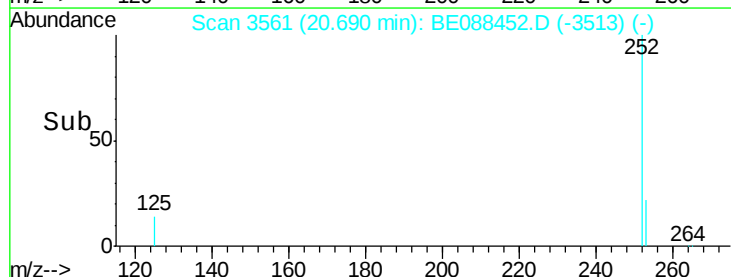
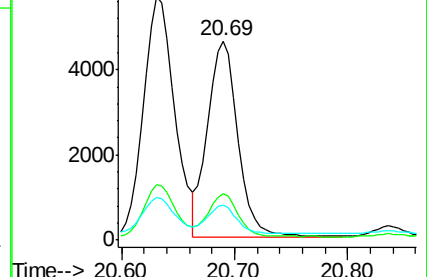
125 17.4 12.2 18.4



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: 1.23 ng

RT: 21.27 min Scan# 3689

Delta R.T. 0.02 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

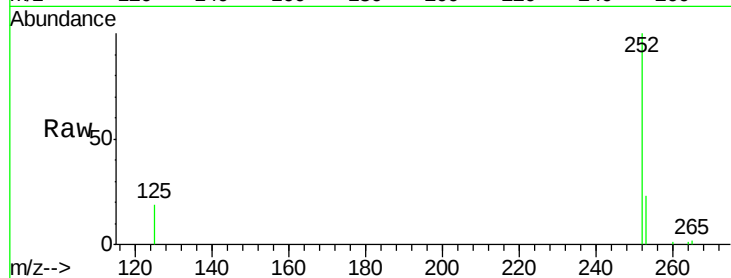
Tgt Ion:252 Resp: 8987

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.4

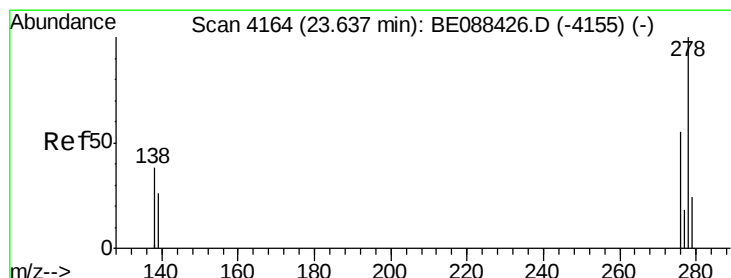
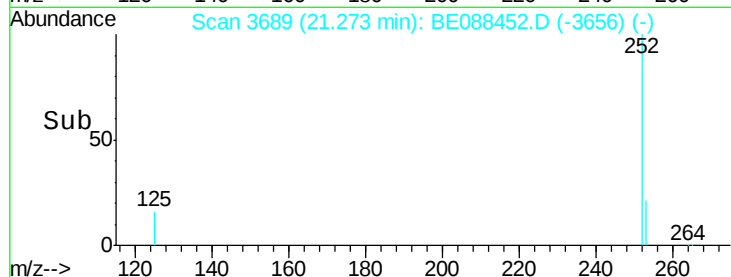
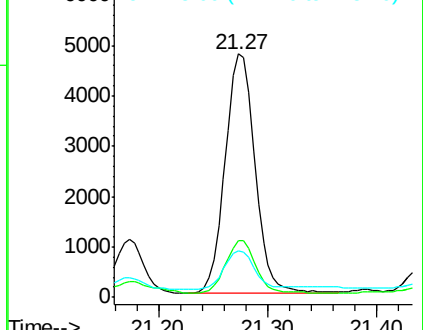
125 19.3 13.7 20.5



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: 1.02 ng

RT: 23.66 min Scan# 4167

Delta R.T. 0.03 min

Lab File: BE088452.D

Acq: 1 Nov 2014 8:40

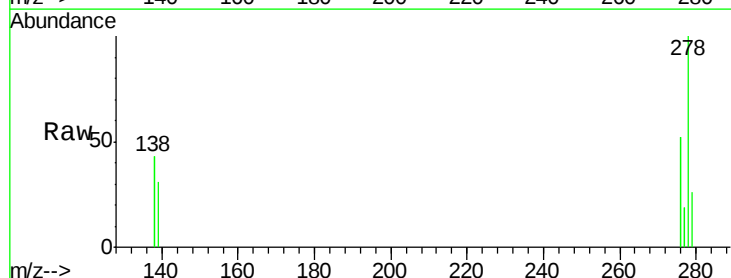
Tgt Ion:278 Resp: 6923

Ion Ratio Lower Upper

278 100

139 30.8 22.1 33.1

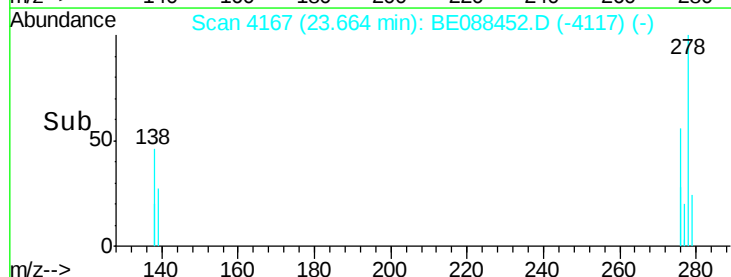
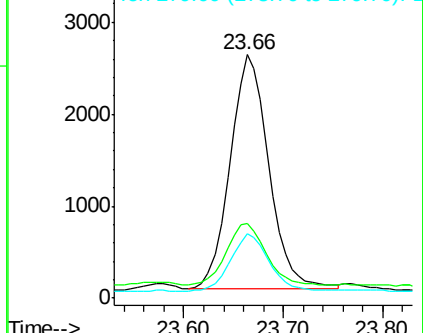
279 26.5 19.7 29.5



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: 1.25 ng

RT: 24.20 min Scan# 4250

Delta R.T. 0.04 min

Lab File: BE088452.D

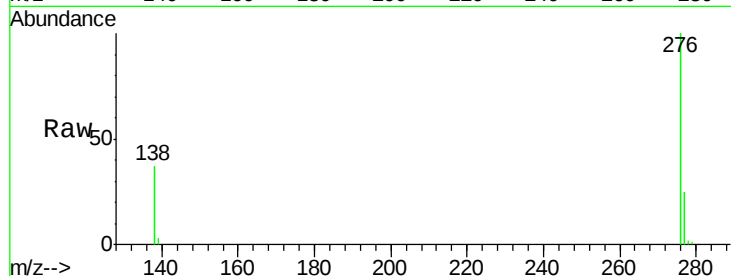
Acq: 1 Nov 2014 8:40

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 38890

Ion Ratio Lower Upper

276 100

277 25.2 19.8 29.6

138 36.5 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

