

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : Be088141.d
 Acq On : 21 Oct 2014 14:10
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Oct 22 04:35:16 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

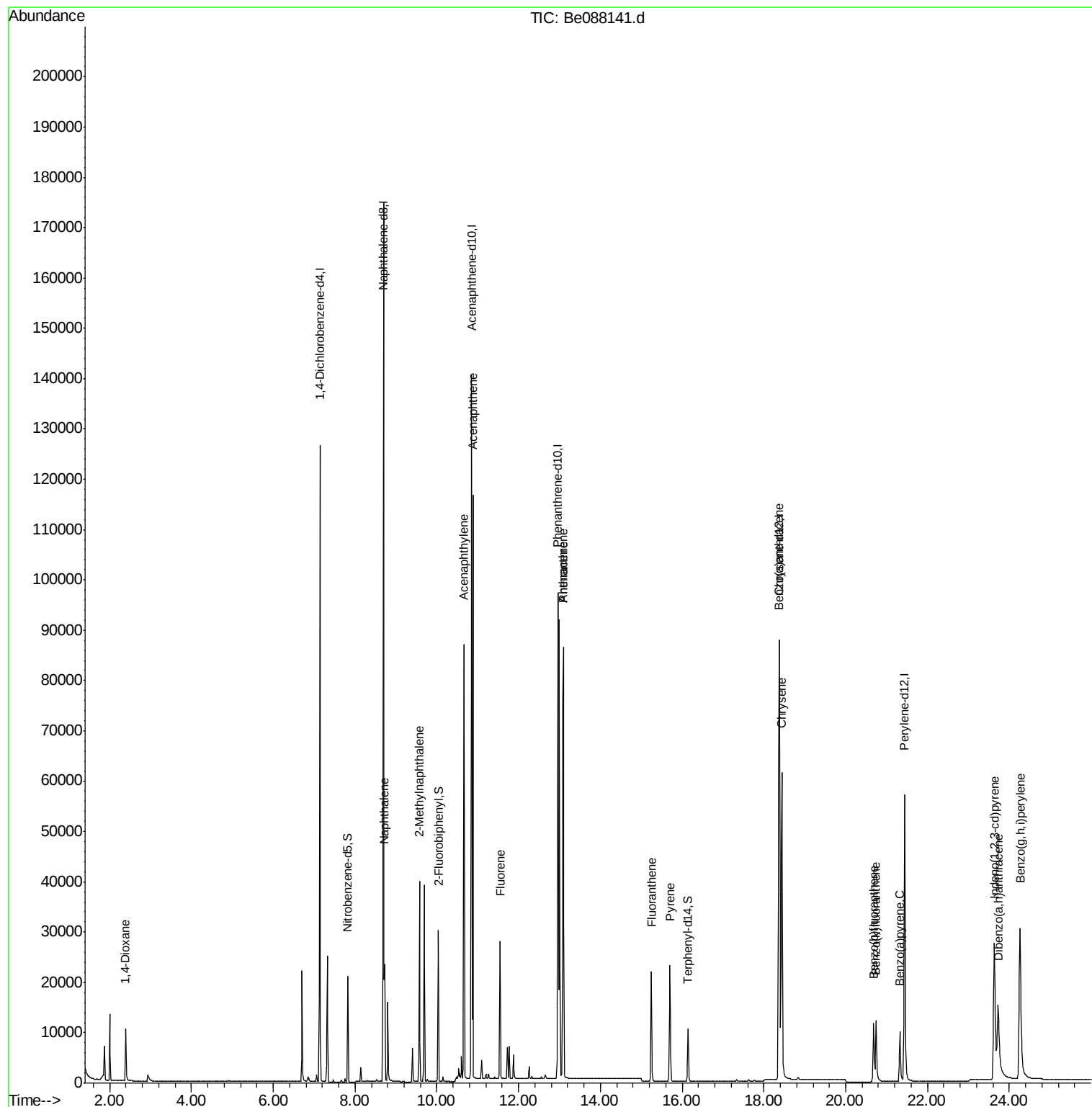
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	38169	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	142442	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	63619	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	115323	5.00	ng	0.00
16) Chrysene-d12	18.38	240	84537	5.00	ng	0.00
22) Perylene-d12	21.44	264	75993	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	10283	1.00	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	18432	1.05	ng	0.00
18) Terphenyl-d14	16.14	244	13592	1.00	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.39	88	5707	1.04	ng	98
5) Naphthalene	8.72	128	30519	1.04	ng	100
6) 2-Methylnaphthalene	9.58	142	18285	1.04	ng	98
9) Acenaphthylene	10.66	152	101555	1.05	ng	100
10) Acenaphthene	10.88	154	15516	1.04	ng	98
11) Fluorene	11.55	166	16453	1.04	ng	100
13) Phenanthrene	13.09	178	89904	0.87	ng	95
14) Anthracene	13.09	178	89904	1.00	ng	100
15) Fluoranthene	15.25	202	21344	0.97	ng	99
17) Pyrene	15.70	202	22894	1.00	ng	100
19) Benzo(a)anthracene	18.36	228	70622	0.94	ng	98
20) Chrysene	18.43	228	75702	1.03	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	55304	0.67	ng	# 89
23) Benzo(b)fluoranthene	20.68	252	16627	0.92	ng	99
24) Benzo(k)fluoranthene	20.74	252	19565	1.01	ng	100
25) Benzo(a)pyrene	21.32	252	15328	0.92	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	14604	0.89	ng	100
27) Benzo(g,h,i)perylene	24.26	276	67751	0.94	ng	99

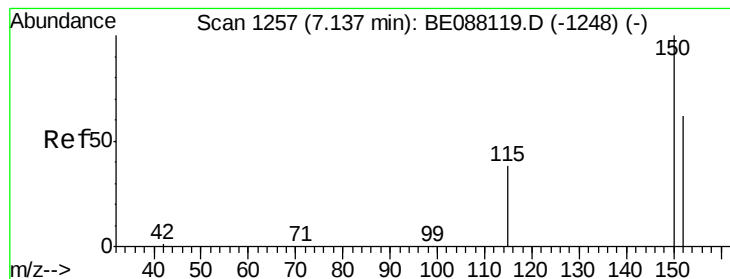
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

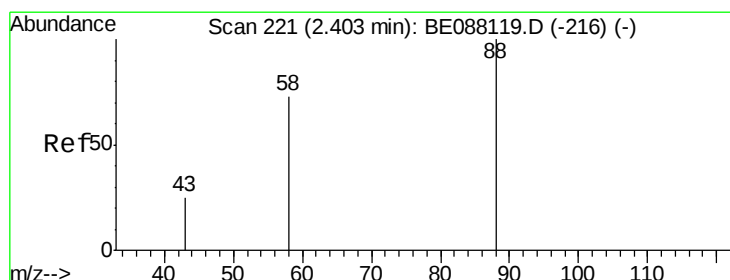
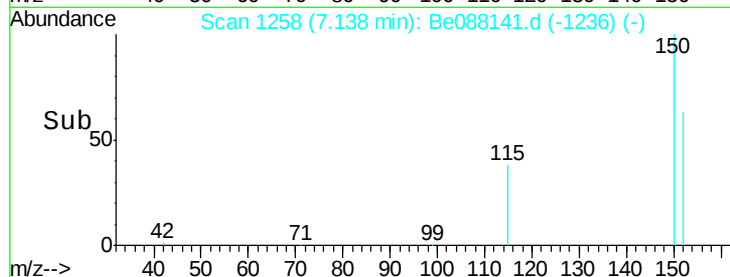
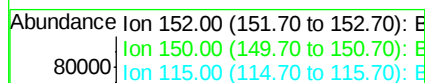
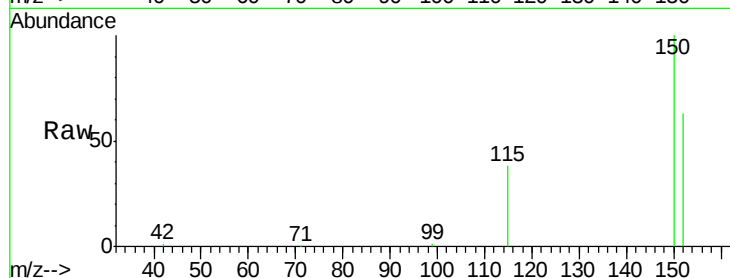
Tgt Ion:152 Resp: 38169

Ion Ratio Lower Upper

152 100

150 158.9 129.2 193.8

115 59.8 49.3 73.9



#2

1,4-Dioxane

Concen: 1.04 ng

RT: 2.39 min Scan# 219

Delta R.T. -0.01 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

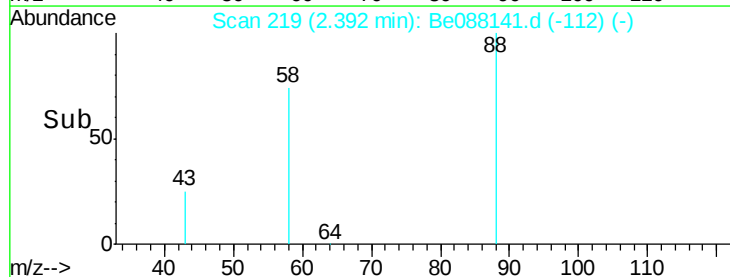
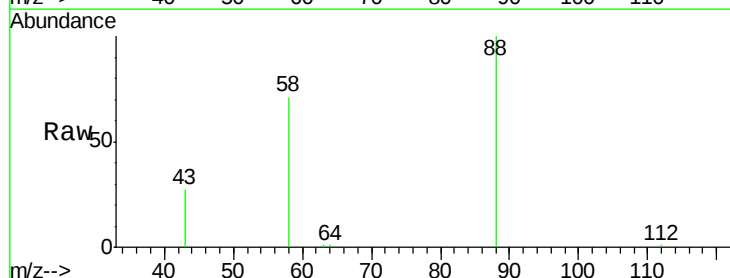
Tgt Ion: 88 Resp: 5707

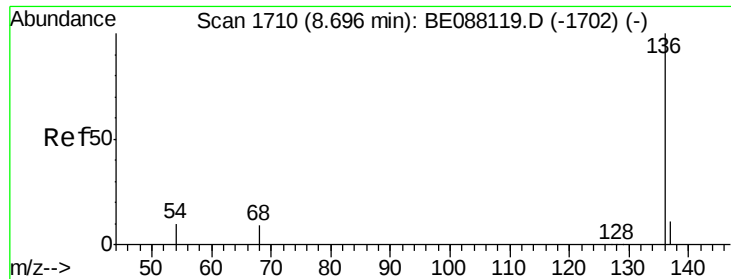
Ion Ratio Lower Upper

88 100

58 75.3 59.5 89.3

43 28.0 21.2 31.8





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

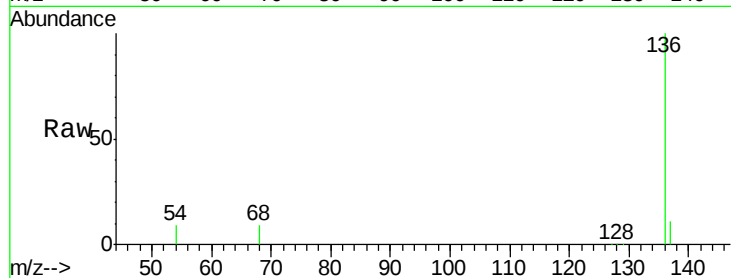
Tgt Ion: 136 Resp: 142442

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

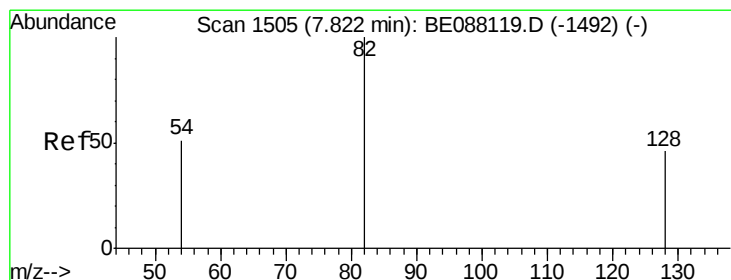
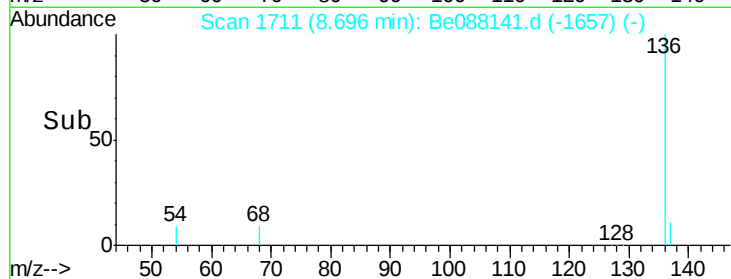
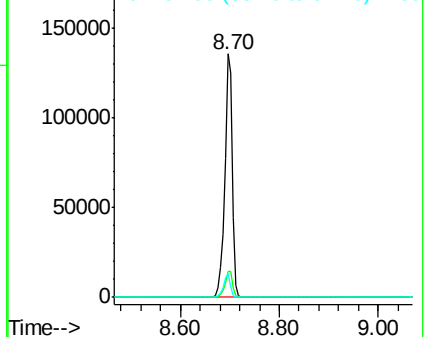
54 9.5 7.7 11.5



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: 1.00 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

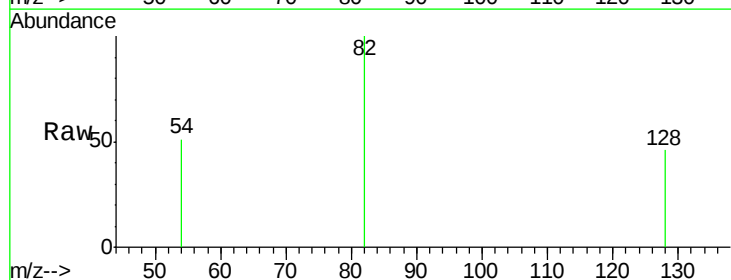
Tgt Ion: 82 Resp: 10283

Ion Ratio Lower Upper

82 100

128 45.9 37.1 55.7

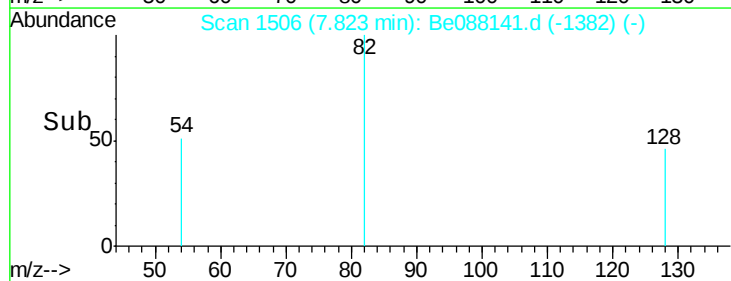
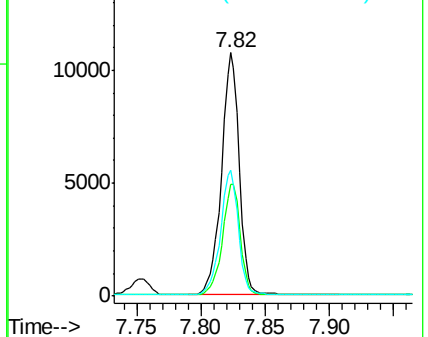
54 51.5 41.1 61.7



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





#5

Naphthalene

Concen: 1.04 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

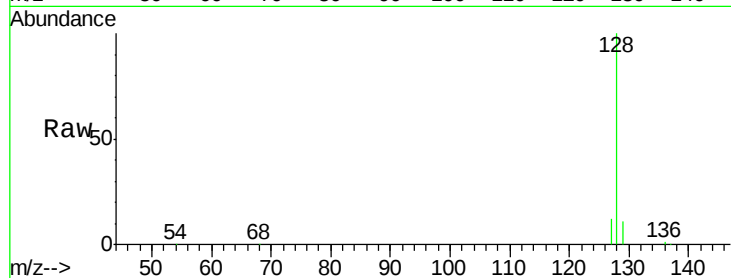
Tgt Ion:128 Resp: 30519

Ion Ratio Lower Upper

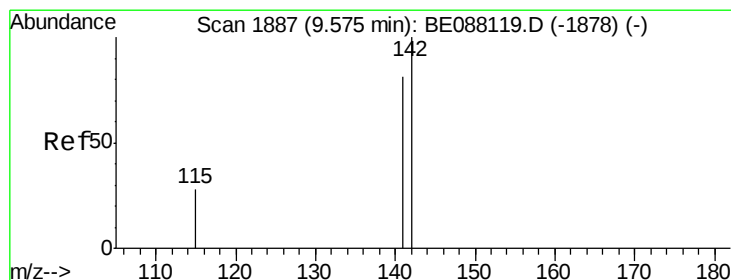
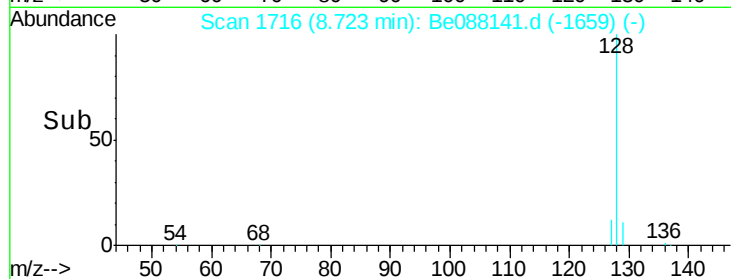
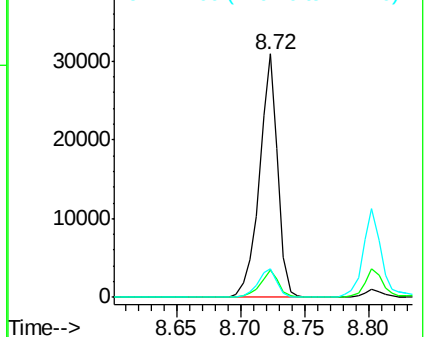
128 100

129 11.0 8.9 13.3

127 11.9 9.7 14.5



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: 1.04 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

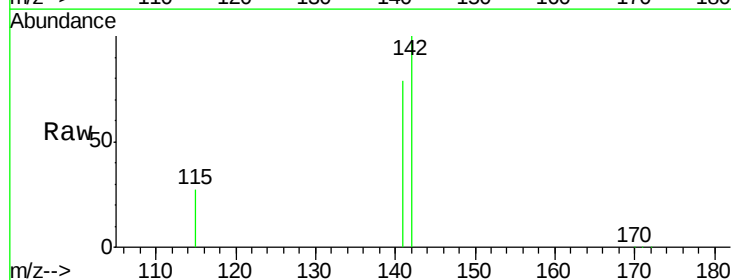
Tgt Ion:142 Resp: 18285

Ion Ratio Lower Upper

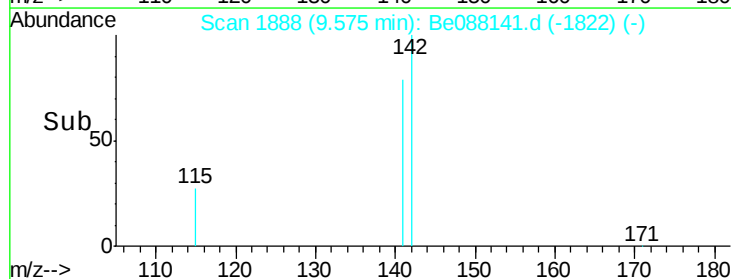
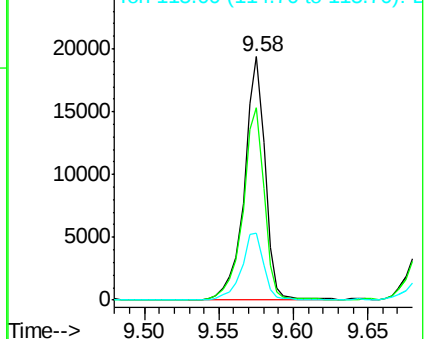
142 100

141 79.0 64.6 97.0

115 27.5 22.6 34.0



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: 10.85 min Scan# 2114

Delta R.T. -0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

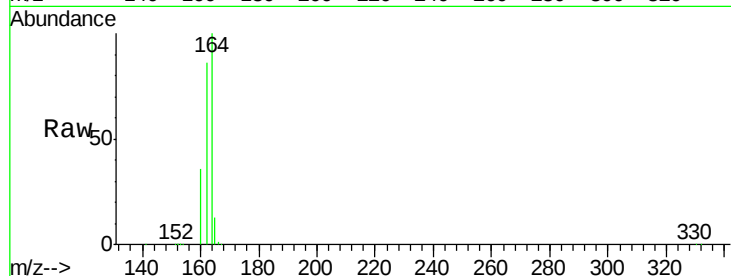
Tgt Ion:164 Resp: 63619

Ion Ratio Lower Upper

164 100

162 85.7 68.3 102.5

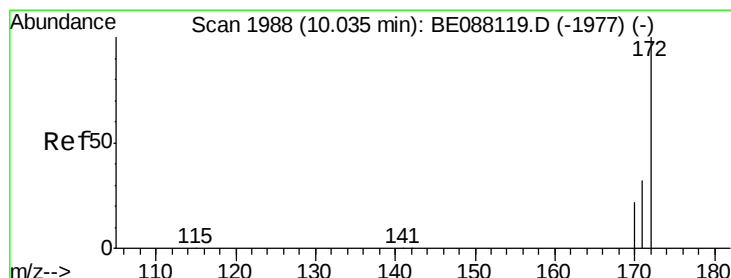
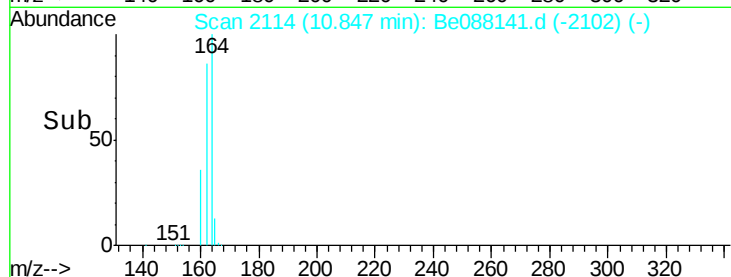
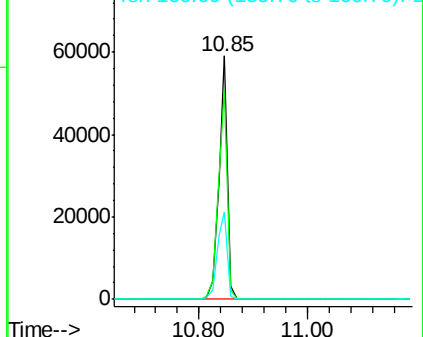
160 36.0 28.7 43.1



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: 1.05 ng

RT: 10.03 min Scan# 1989

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

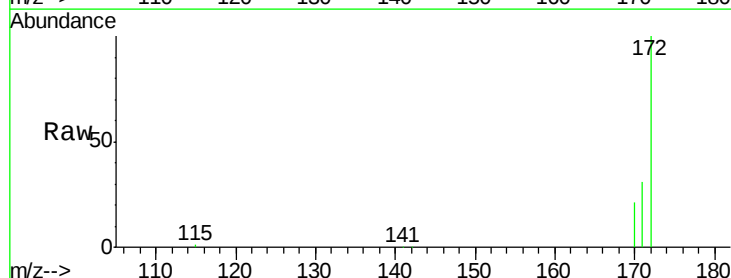
Tgt Ion:172 Resp: 18432

Ion Ratio Lower Upper

172 100

171 31.3 25.4 38.2

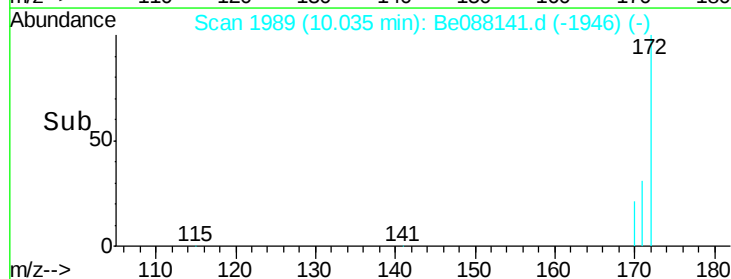
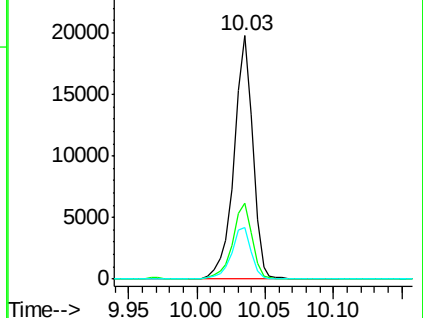
170 20.9 17.4 26.2

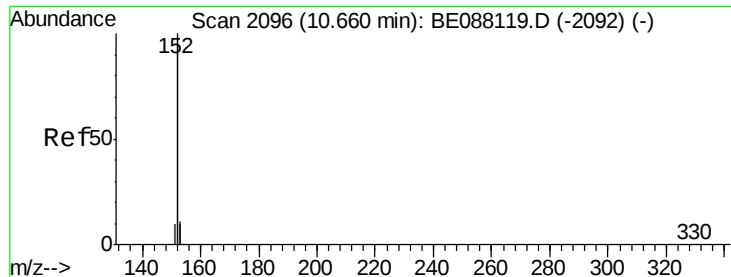


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.05 ng

RT: 10.66 min Scan# 2097

Delta R.T. -0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

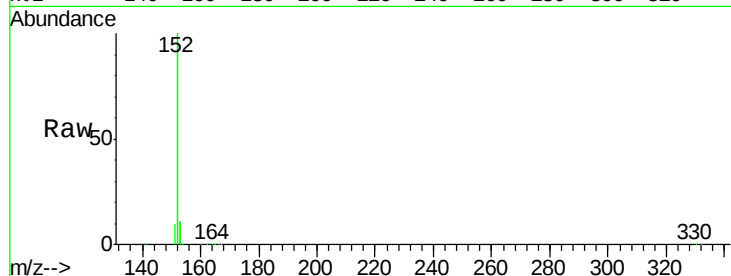
Tgt Ion:152 Resp: 101555

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

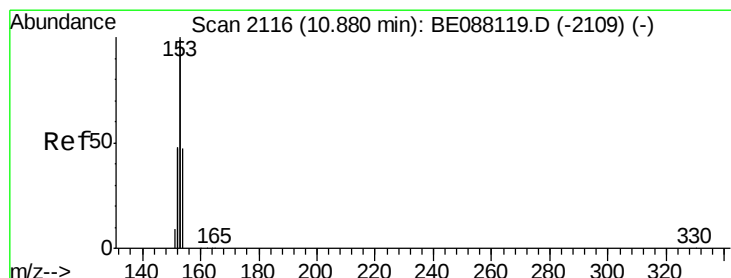
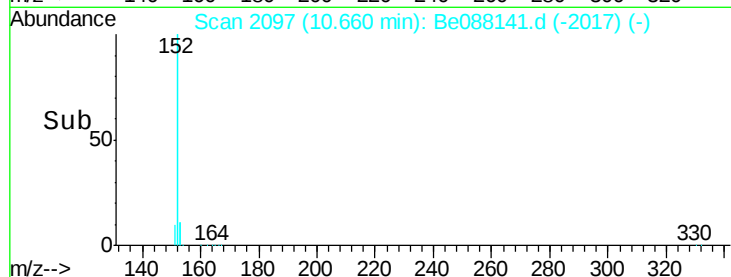
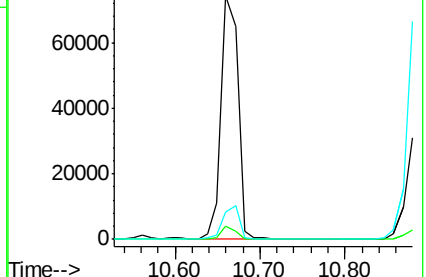
153 13.0 10.4 15.6



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



#10

Acenaphthene

Concen: 1.04 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

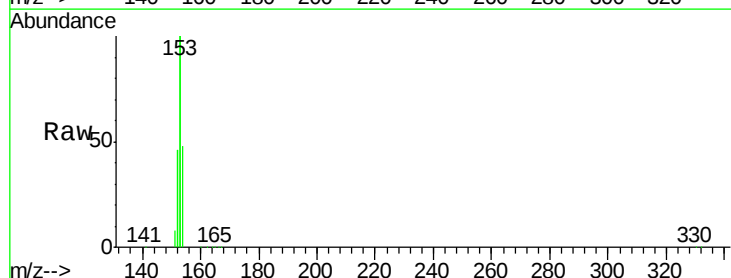
Tgt Ion:154 Resp: 15516

Ion Ratio Lower Upper

154 100

153 405.6 327.8 491.6

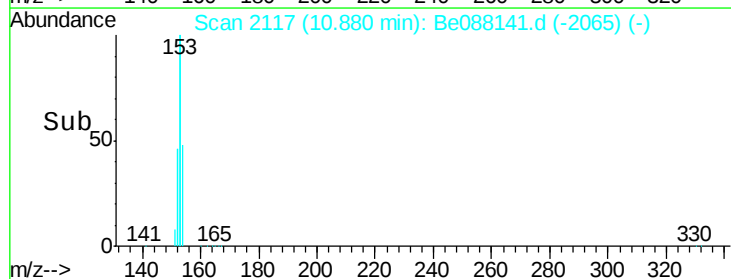
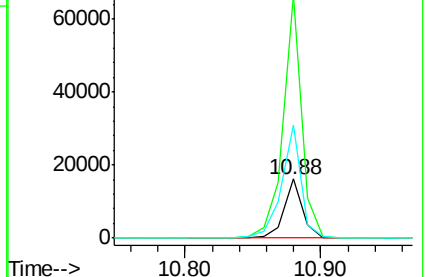
152 193.3 157.6 236.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.04 ng

RT: 11.55 min Scan# 2178

Delta R.T. -0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

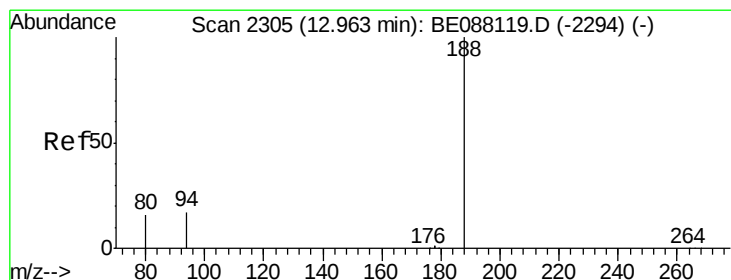
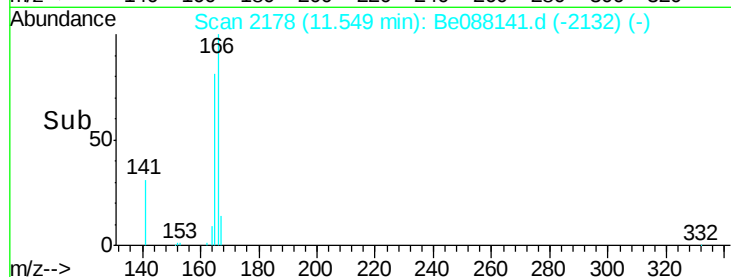
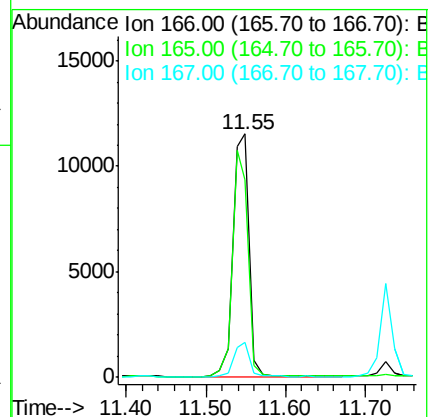
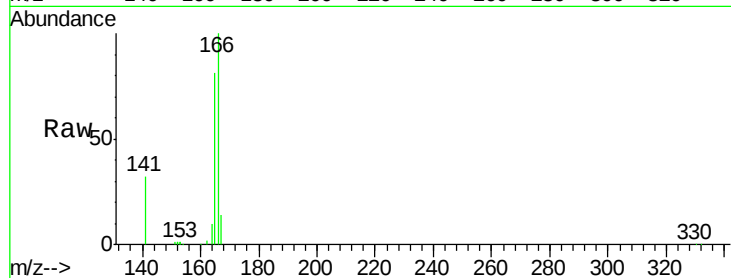
Tgt Ion:166 Resp: 16453

Ion Ratio Lower Upper

166 100

165 89.5 71.4 107.2

167 13.4 10.6 16.0



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2306

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

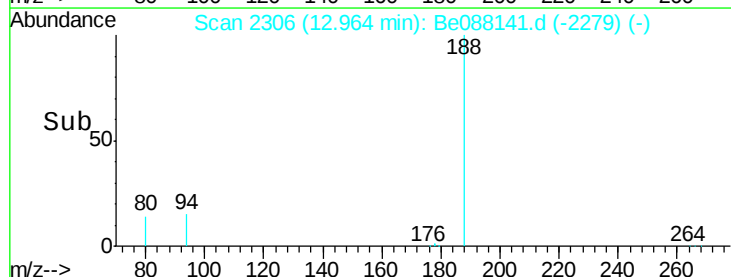
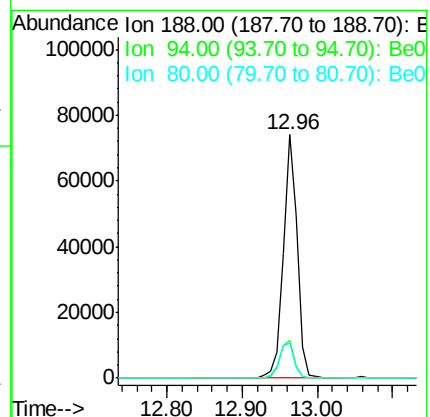
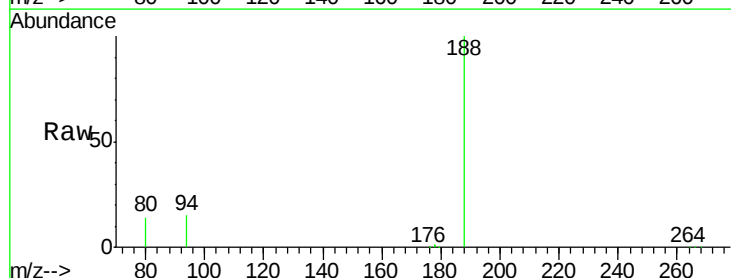
Tgt Ion:188 Resp: 115323

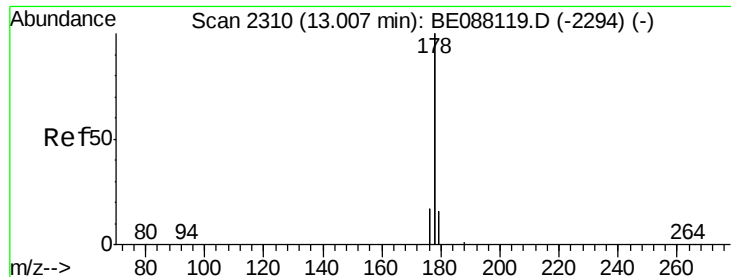
Ion Ratio Lower Upper

188 100

94 15.2 13.9 20.9

80 14.2 12.9 19.3





#13

Phenanthrene

Concen: 0.87 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.09 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

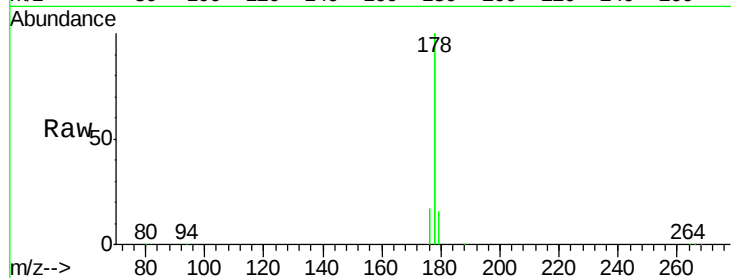
Tgt Ion:178 Resp: 89904

Ion Ratio Lower Upper

178 100

176 18.5 12.5 18.7

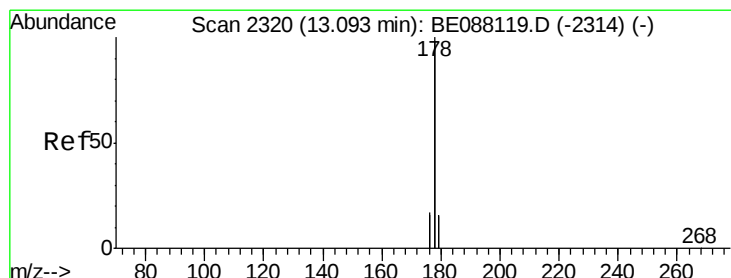
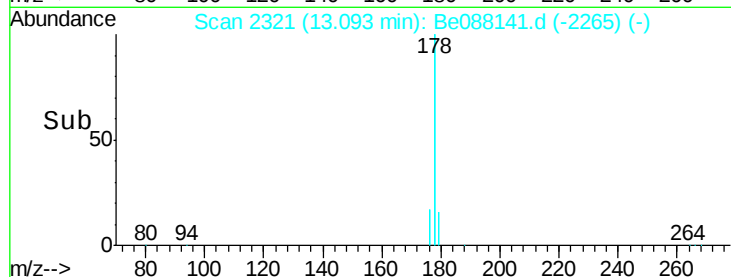
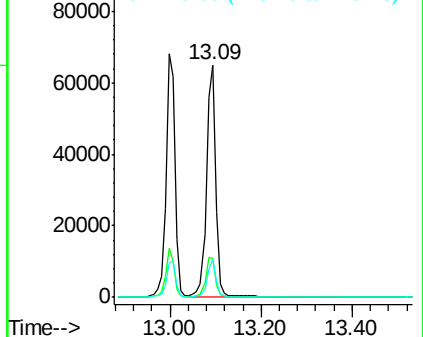
179 15.5 13.5 20.3



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: 1.00 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: Be088141.d

Acq: 21 Oct 2014 14:10

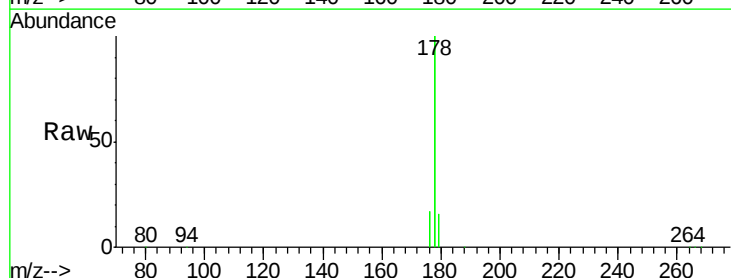
Tgt Ion:178 Resp: 89904

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

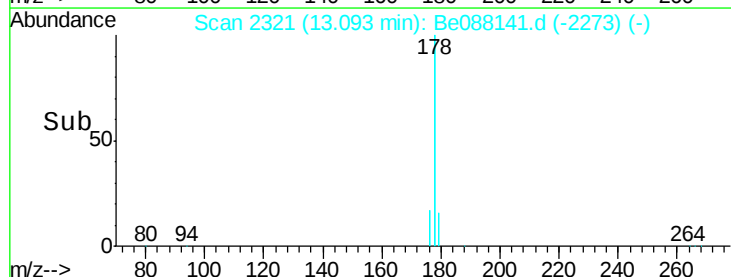
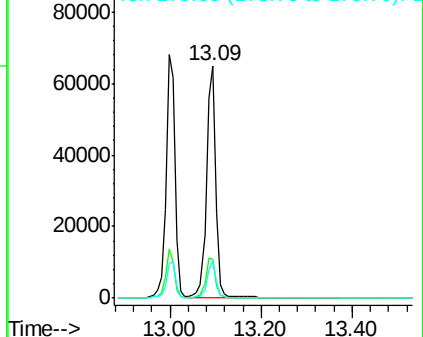
179 15.5 12.5 18.7

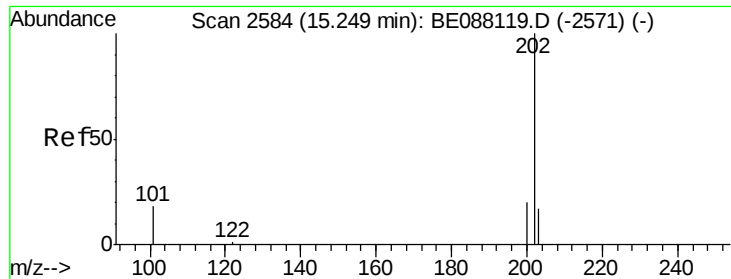


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

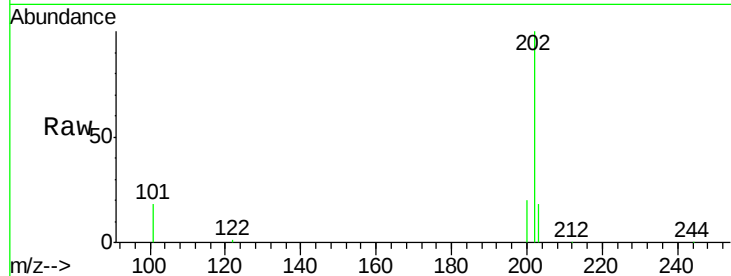




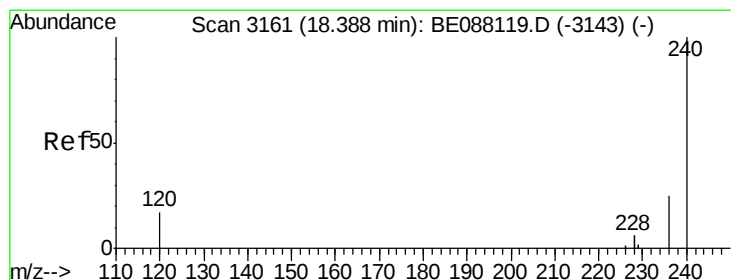
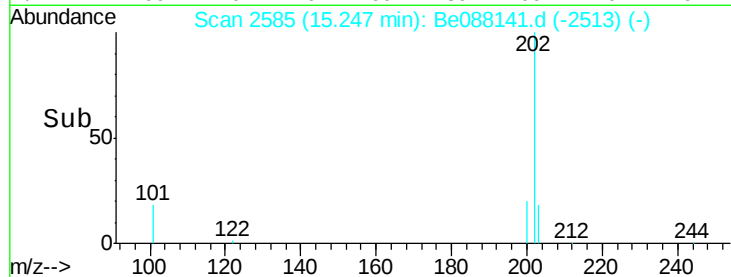
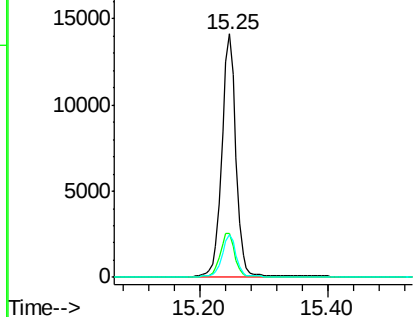
#15
 Fluoranthene
 Concen: 0.97 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: Be088141.d
 Acq: 21 Oct 2014 14:10

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion: 202 Resp: 21344
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 17.2 13.5 20.3

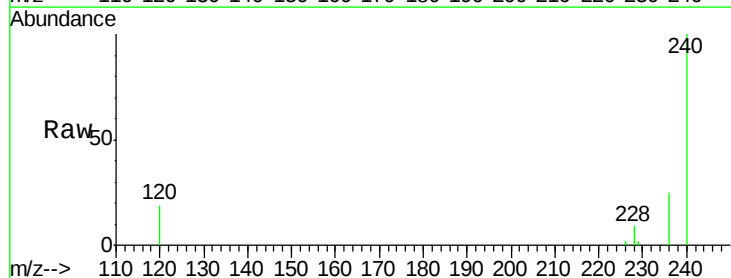


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

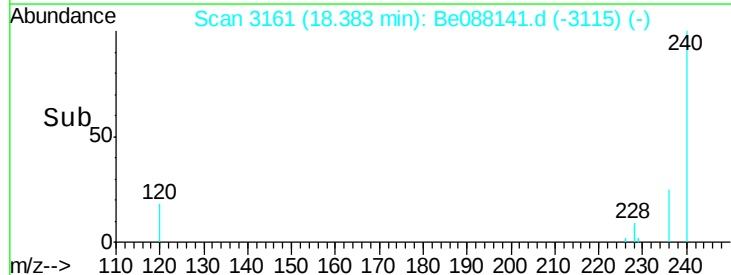
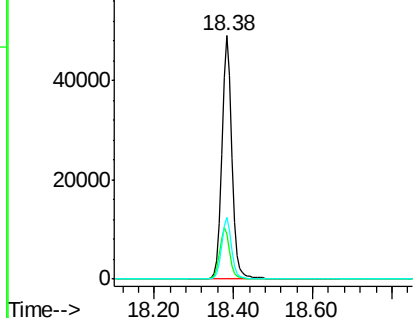


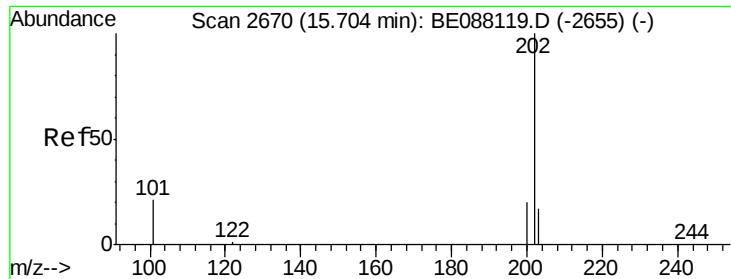
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3161
 Delta R.T. -0.01 min
 Lab File: Be088141.d
 Acq: 21 Oct 2014 14:10

Tgt Ion: 240 Resp: 84537
 Ion Ratio Lower Upper
 240 100
 120 18.6 13.9 20.9
 236 25.2 19.9 29.9



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

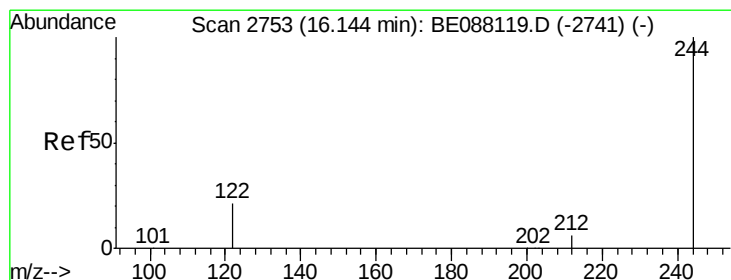
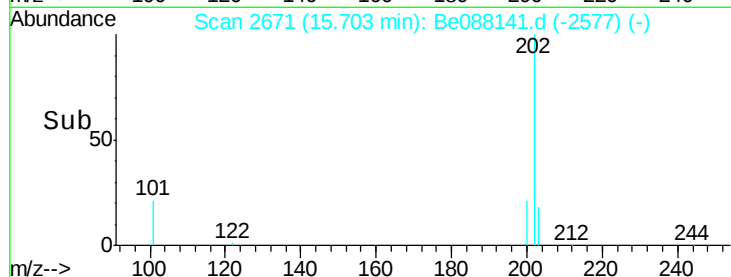
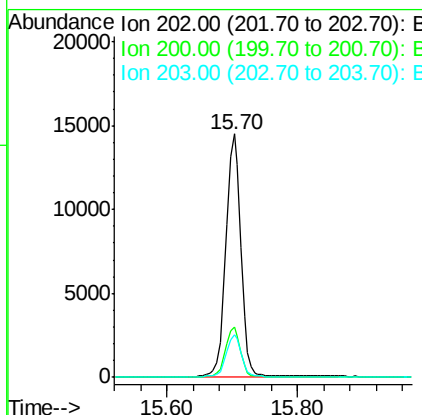
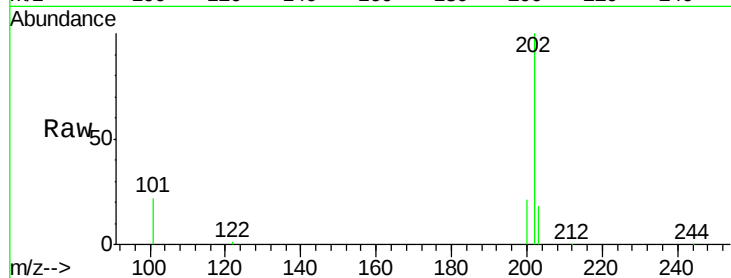




#17
 Pyrene
 Concen: 1.00 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: Be088141.d
 Acq: 21 Oct 2014 14:10

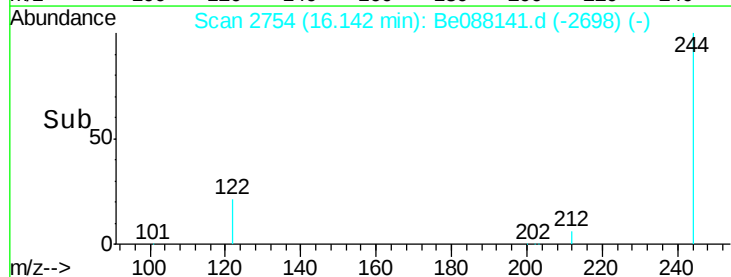
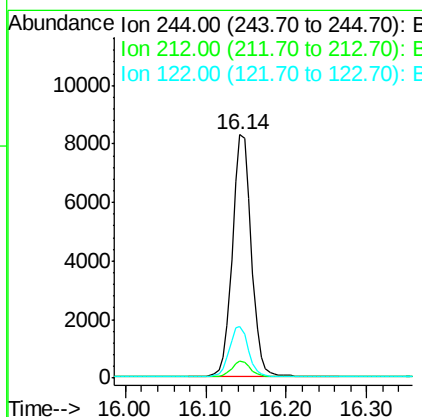
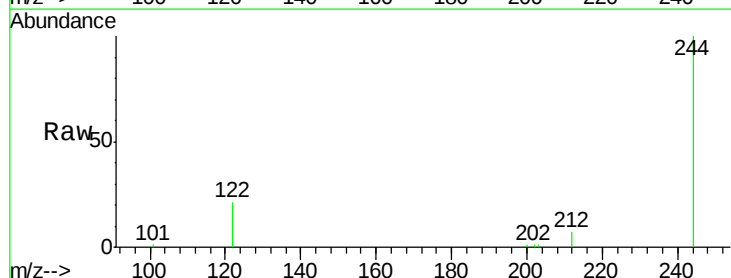
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion: 202 Resp: 22894
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 17.3 13.9 20.9



#18
 Terphenyl-d14
 Concen: 1.00 ng
 RT: 16.14 min Scan# 2754
 Delta R.T. -0.00 min
 Lab File: Be088141.d
 Acq: 21 Oct 2014 14:10

Tgt Ion: 244 Resp: 13592
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 21.3 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.94 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

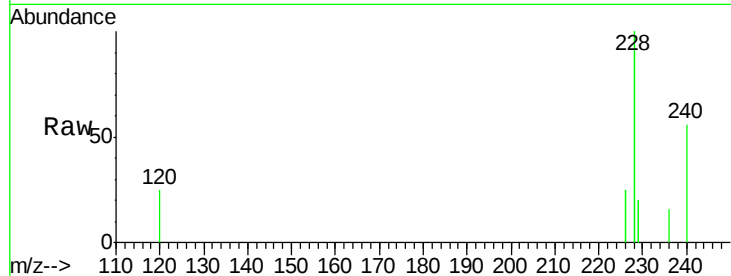
Tgt Ion:228 Resp: 70622

Ion Ratio Lower Upper

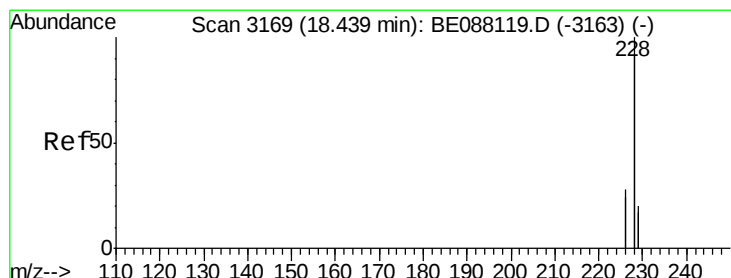
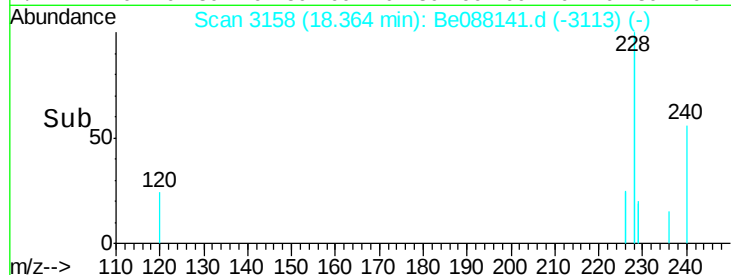
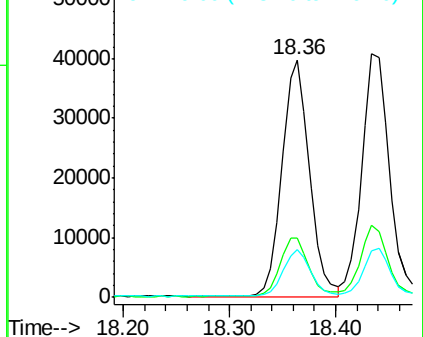
228 100

226 25.0 20.8 31.2

229 20.2 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: 1.03 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

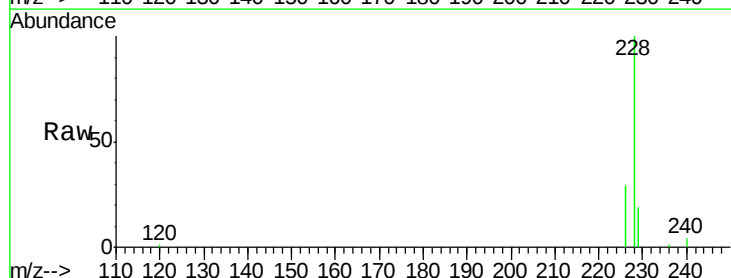
Tgt Ion:228 Resp: 75702

Ion Ratio Lower Upper

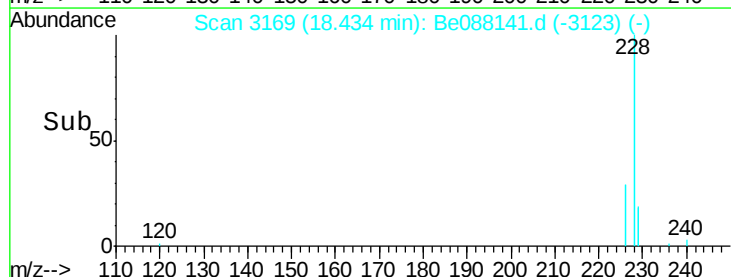
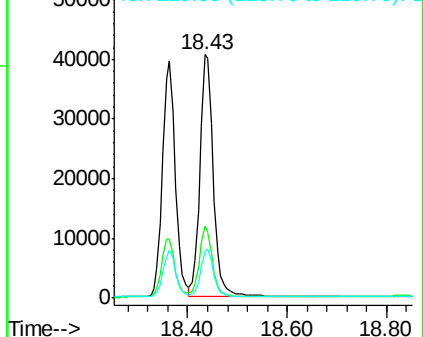
228 100

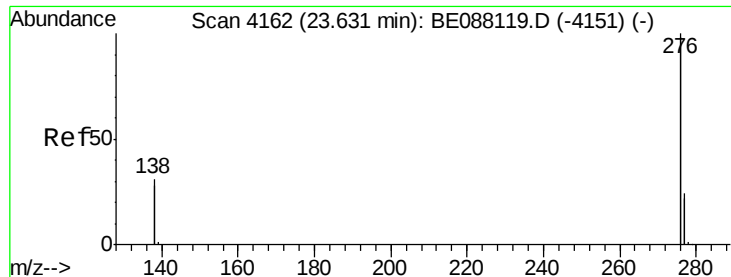
226 29.5 22.7 34.1

229 19.1 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: 0.67 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

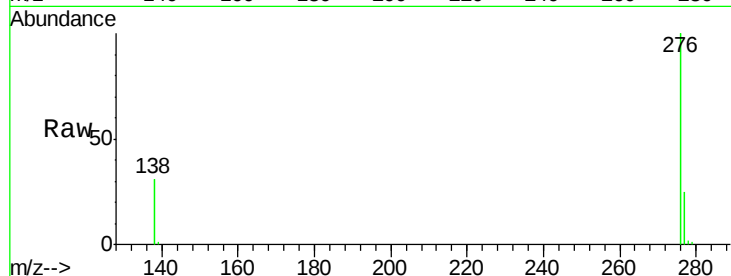
Tgt Ion:276 Resp: 55304

Ion Ratio Lower Upper

276 100

138 28.9 18.5 27.7#

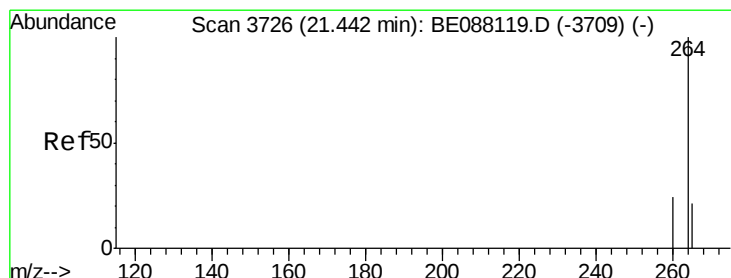
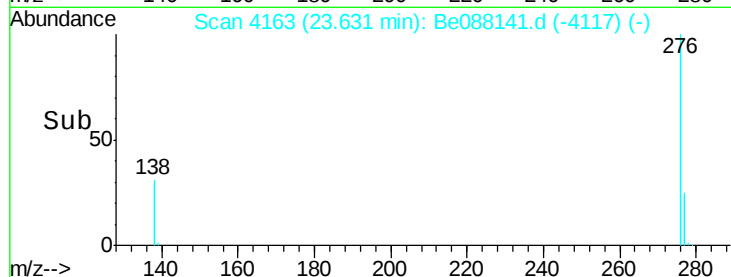
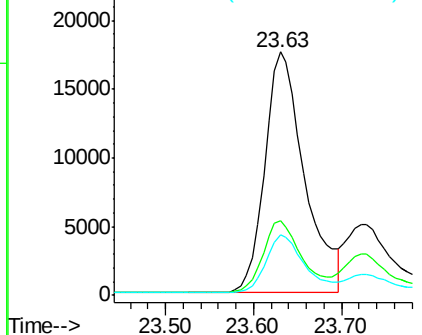
277 23.1 14.6 21.8#



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# 3727

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

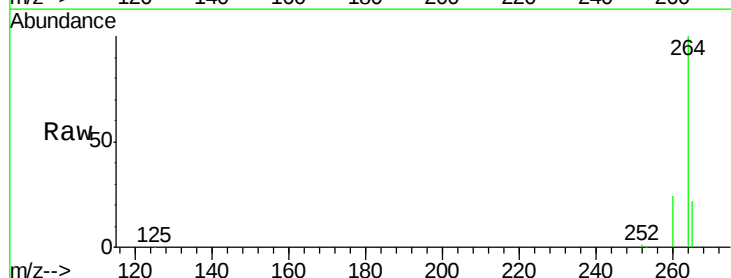
Tgt Ion:264 Resp: 75993

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

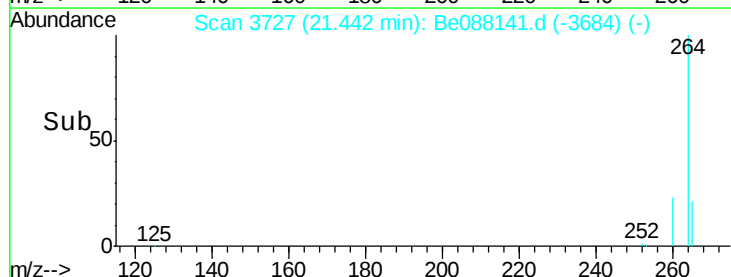
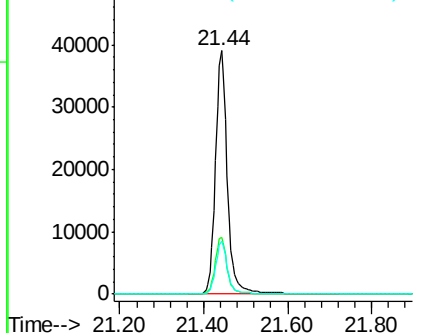
265 21.6 17.2 25.8

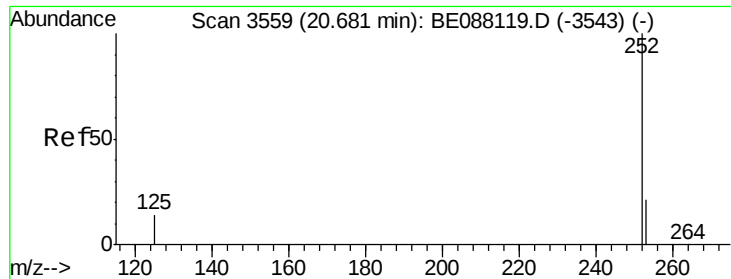


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.92 ng

RT: 20.68 min Scan# 3560

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

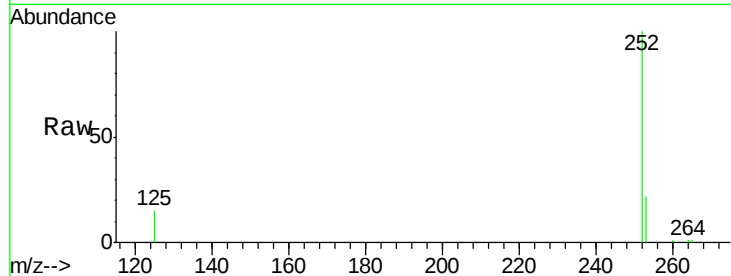
Tgt Ion:252 Resp: 16627

Ion Ratio Lower Upper

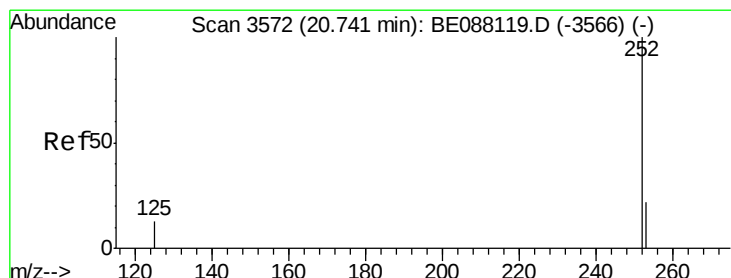
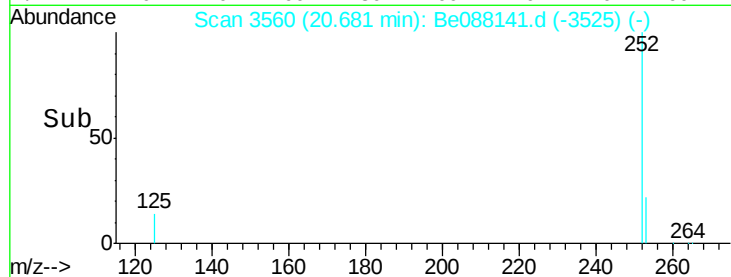
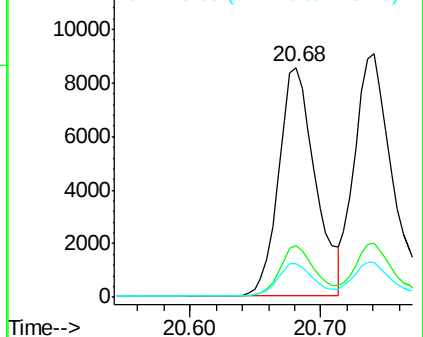
252 100

253 22.4 17.4 26.0

125 14.7 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: 1.01 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

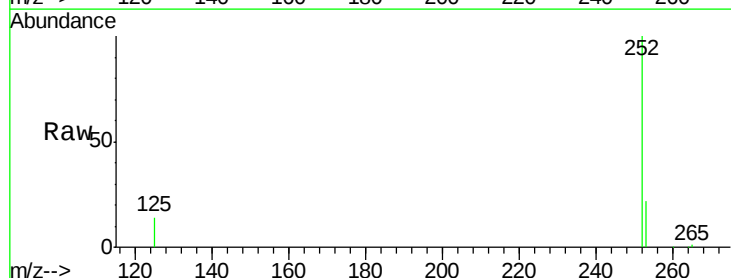
Tgt Ion:252 Resp: 19565

Ion Ratio Lower Upper

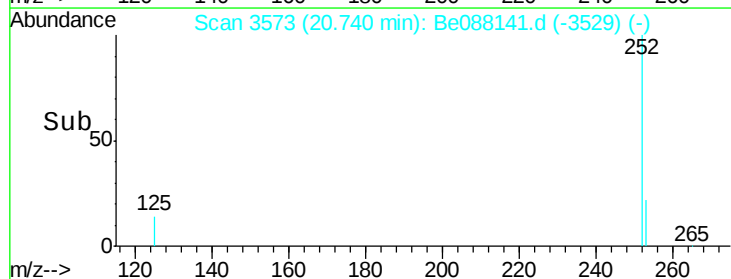
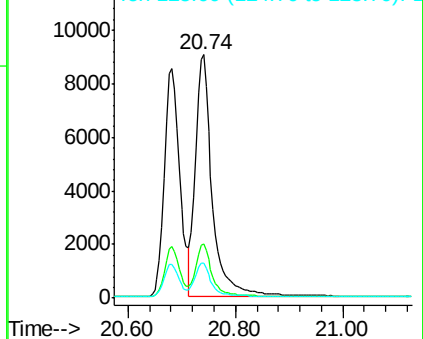
252 100

253 22.1 17.6 26.4

125 14.1 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: 0.92 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

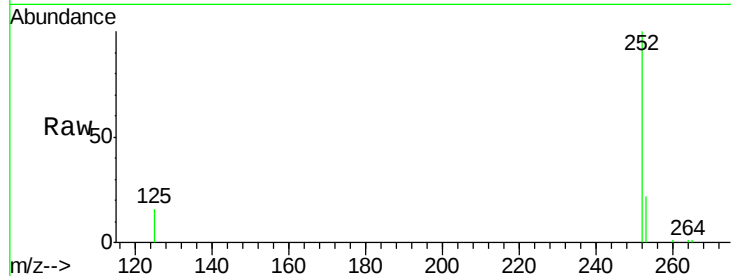
Tgt Ion:252 Resp: 15328

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

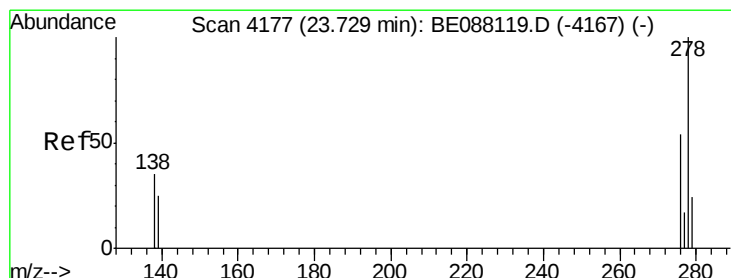
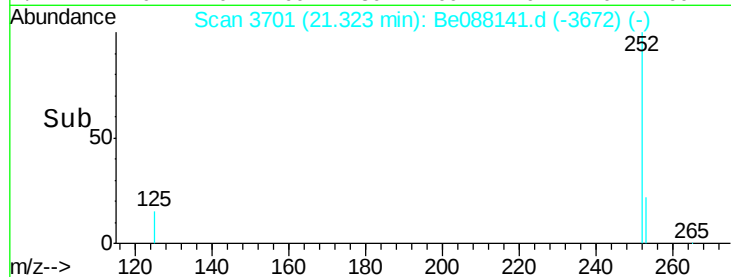
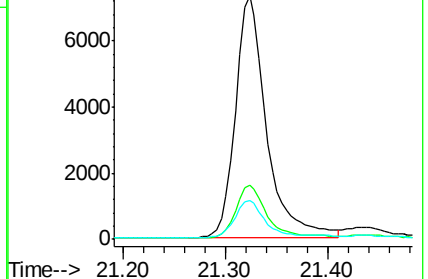
125 16.0 13.0 19.6



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: 0.89 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088141.d

Acq: 21 Oct 2014 14:10

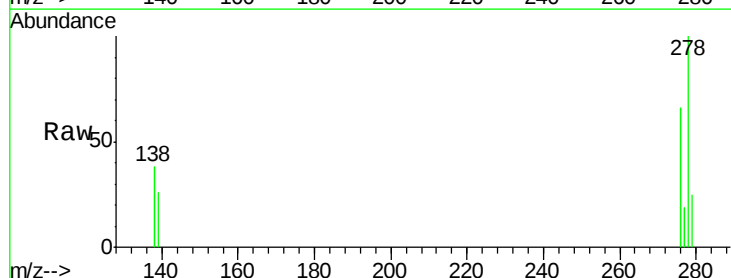
Tgt Ion:278 Resp: 14604

Ion Ratio Lower Upper

278 100

139 26.1 20.9 31.3

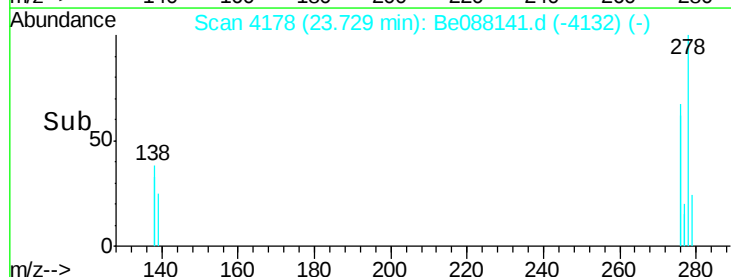
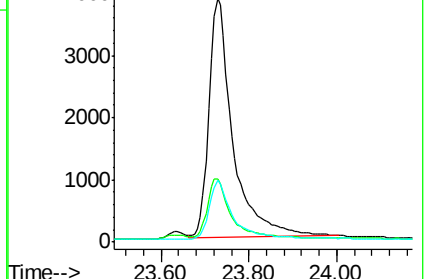
279 25.3 19.8 29.8

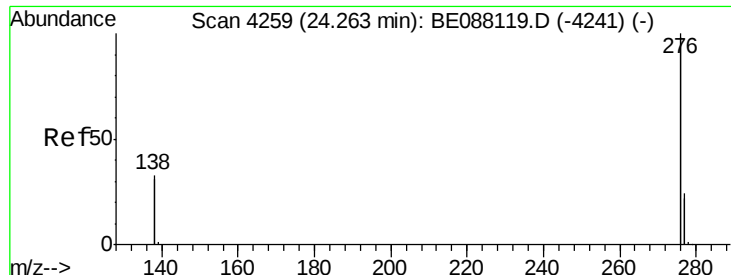


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.94 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088141.d

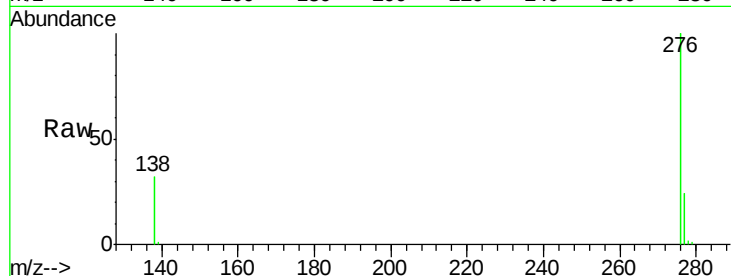
Acq: 21 Oct 2014 14:10

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001



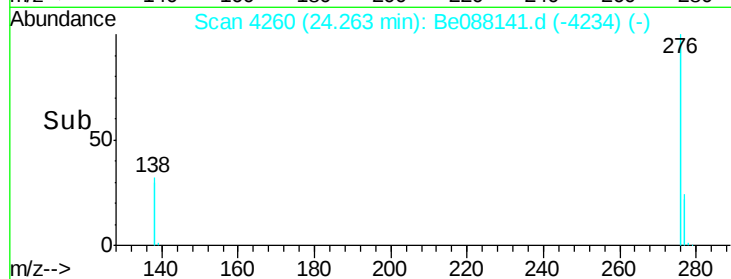
Tgt Ion: 276 Resp: 67751

Ion Ratio Lower Upper

276 100

277 24.4 19.2 28.8

138 32.3 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

