

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088160.D
 Acq On : 22 Oct 2014 1:54
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Oct 22 04:24:35 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

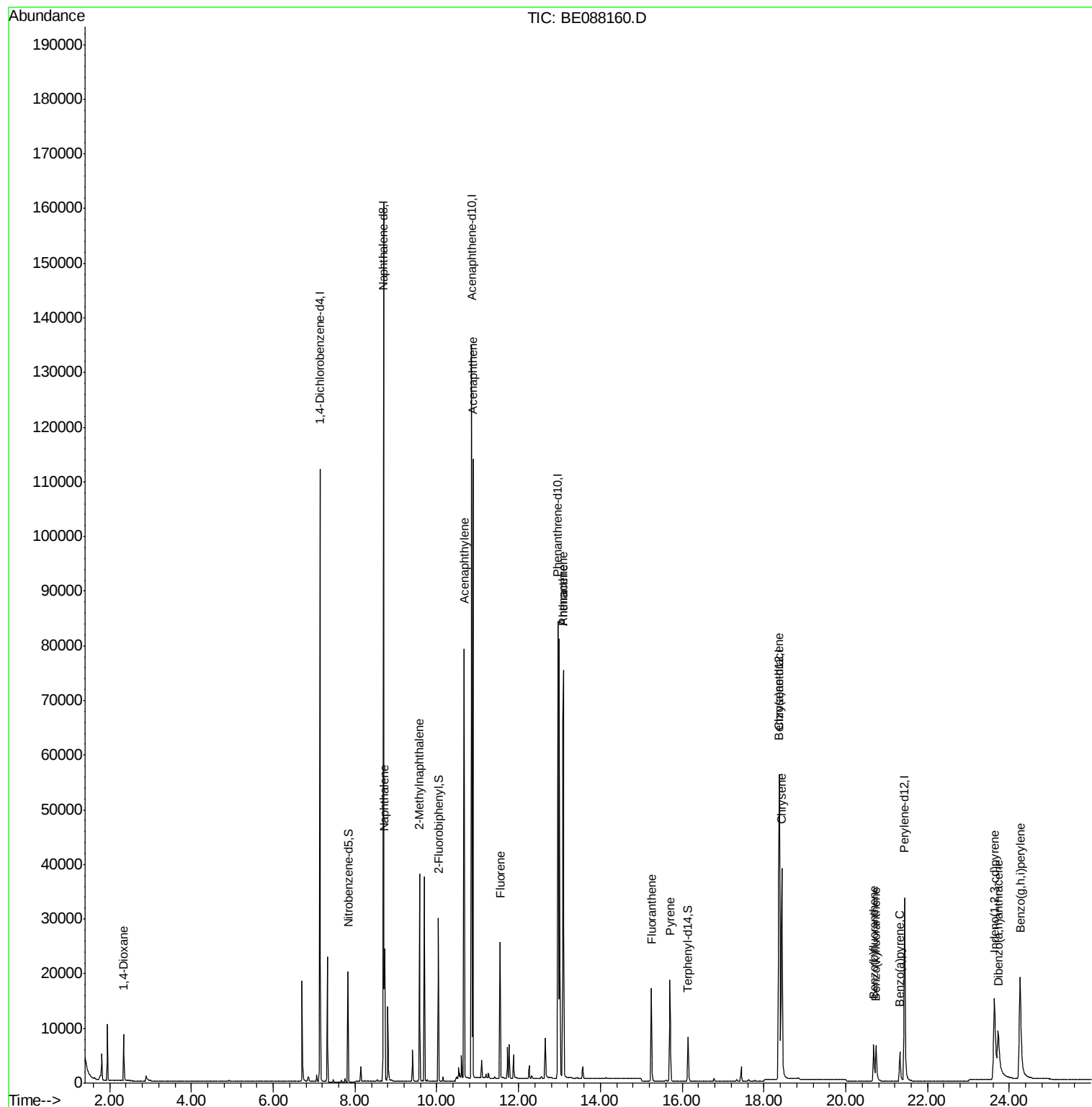
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	31672	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	122757	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	57106	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	81744	5.00	ng	0.00
16) Chrysene-d12	18.38	240	54054	5.00	ng	0.00
22) Perylene-d12	21.44	264	46314	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	8905	1.01	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	16480	1.04	ng	0.00
18) Terphenyl-d14	16.14	244	10316	1.19	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	4651	1.02	ng	99
5) Naphthalene	8.72	128	26273	1.04	ng	100
6) 2-Methylnaphthalene	9.58	142	16012	1.06	ng	99
9) Acenaphthylene	10.67	152	90835	1.04	ng	100
10) Acenaphthene	10.88	154	13904	1.04	ng	99
11) Fluorene	11.55	166	14543	1.02	ng	99
13) Phenanthrene	13.09	178	76111	1.09	ng	96
14) Anthracene	13.09	178	76111	1.19	ng	99
15) Fluoranthene	15.25	202	16223	1.04	ng	100
17) Pyrene	15.70	202	17618	1.20	ng	100
19) Benzo(a)anthracene	18.36	228	44288	0.92	ng	99
20) Chrysene	18.44	228	49016	1.04	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	32518	0.62	ng	# 88
23) Benzo(b)fluoranthene	20.68	252	9634	0.87	ng	99
24) Benzo(k)fluoranthene	20.74	252	11673	0.99	ng	99
25) Benzo(a)pyrene	21.32	252	8967	0.88	ng	100
26) Dibenzo(a,h)anthracene	23.73	278	8895	0.89	ng	100
27) Benzo(g,h,i)perylene	24.26	276	43367	0.99	ng	99

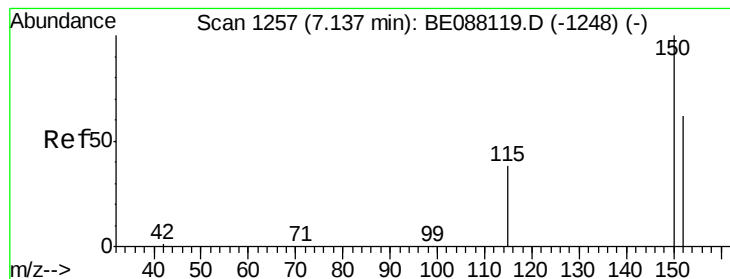
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

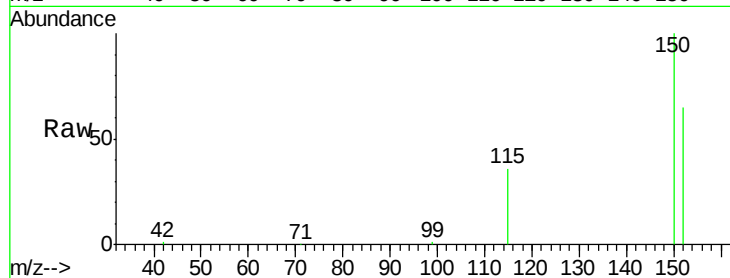
Tgt Ion: 152 Resp: 31672

Ion Ratio Lower Upper

152 100

150 152.8 129.2 193.8

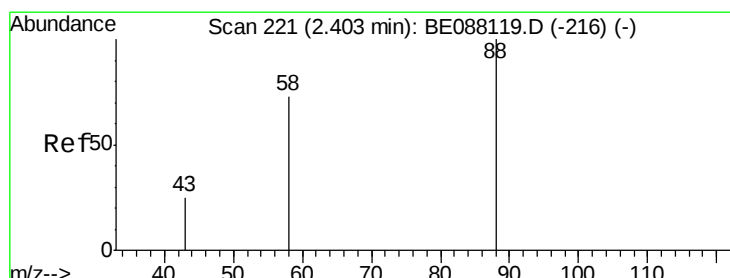
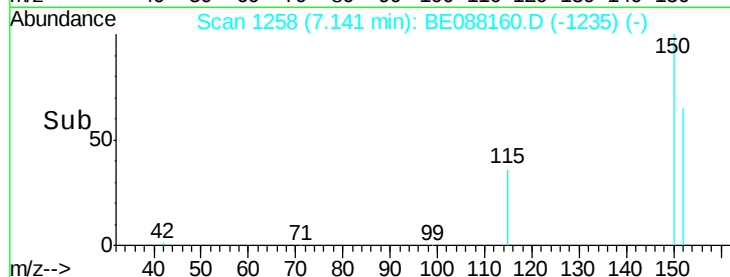
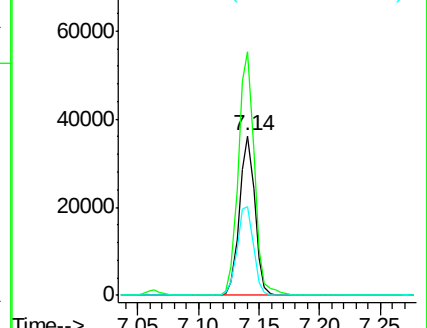
115 55.7 49.3 73.9



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: 1.02 ng

RT: 2.34 min Scan# 207

Delta R.T. -0.06 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

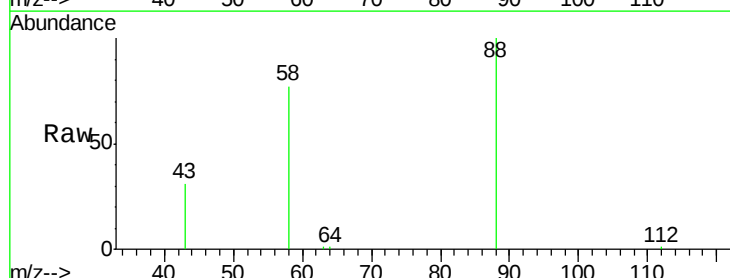
Tgt Ion: 88 Resp: 4651

Ion Ratio Lower Upper

88 100

58 75.1 59.5 89.3

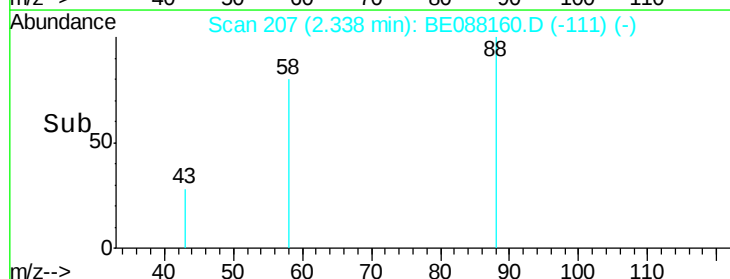
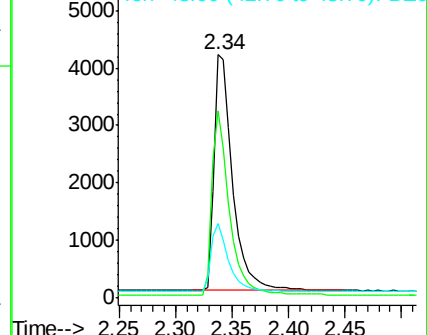
43 27.3 21.2 31.8

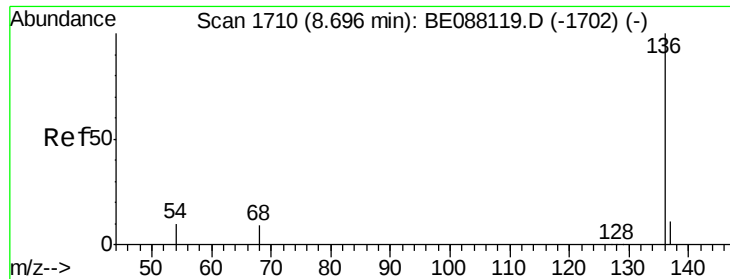


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

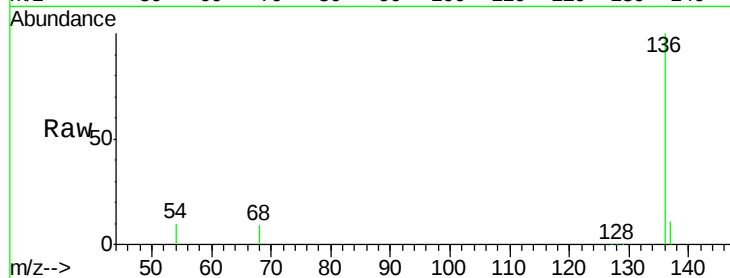




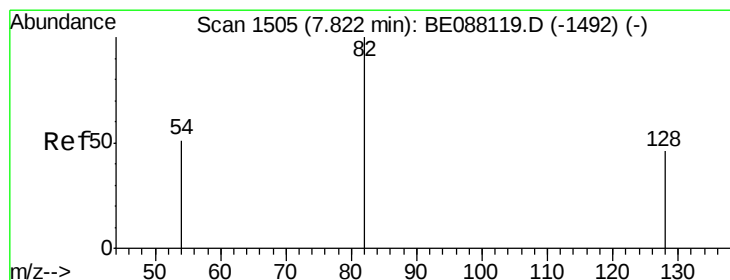
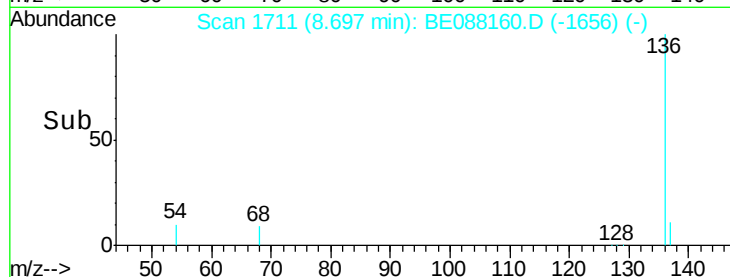
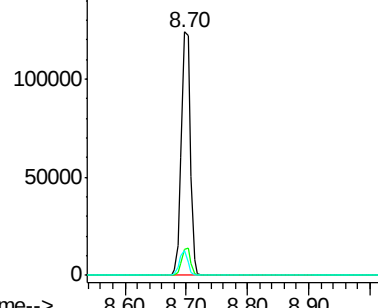
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088160.D
Acq: 22 Oct 2014 1:54

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion: 136 Resp: 122757
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 10.1 7.7 11.5

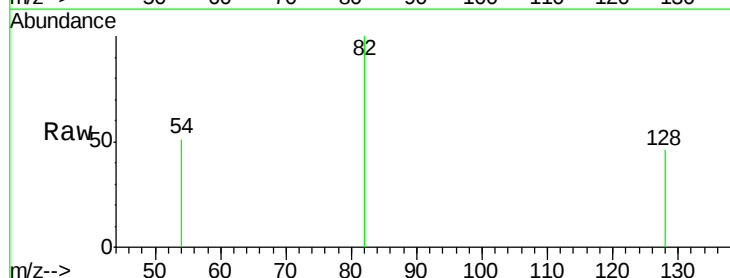


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

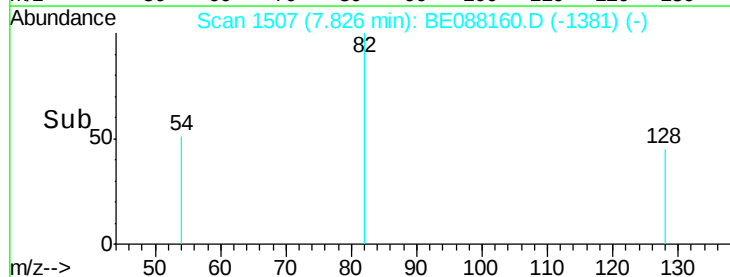
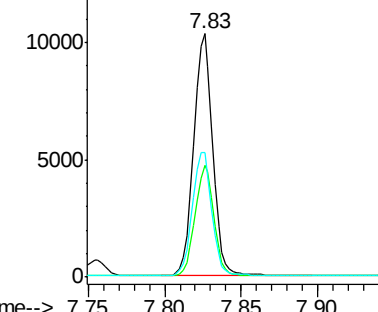


#4
Nitrobenzene-d5
Concen: 1.01 ng
RT: 7.83 min Scan# 1507
Delta R.T. 0.00 min
Lab File: BE088160.D
Acq: 22 Oct 2014 1:54

Tgt Ion: 82 Resp: 8905
Ion Ratio Lower Upper
82 100
128 45.7 37.1 55.7
54 51.3 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: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

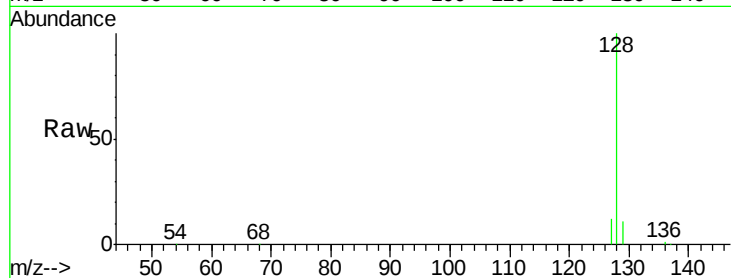
Tgt Ion:128 Resp: 26273

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

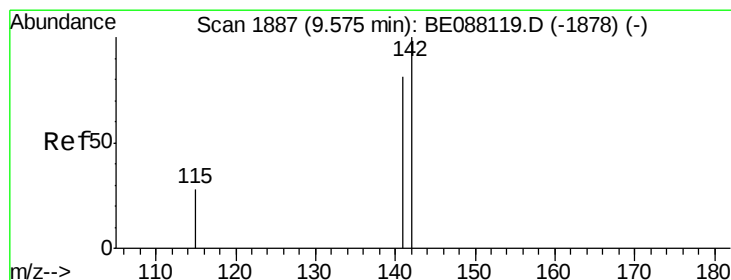
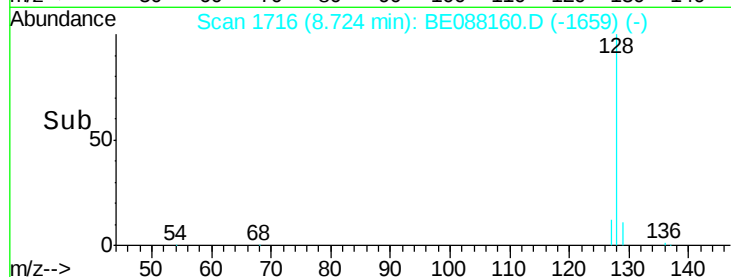
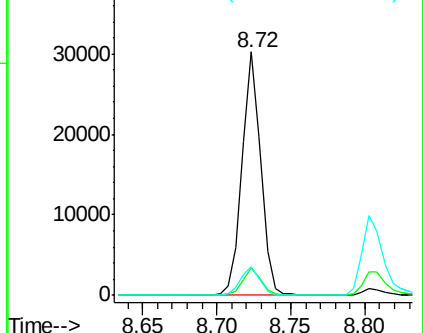
127 11.9 9.7 14.5



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: 1.06 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

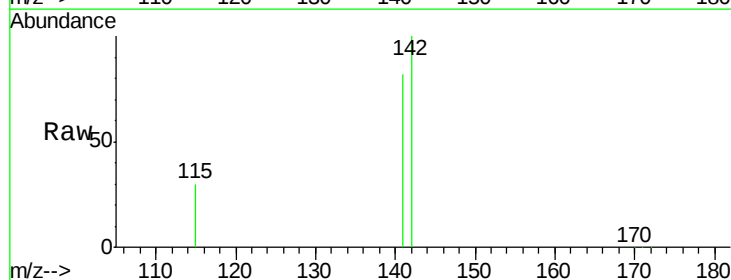
Tgt Ion:142 Resp: 16012

Ion Ratio Lower Upper

142 100

141 81.7 64.6 97.0

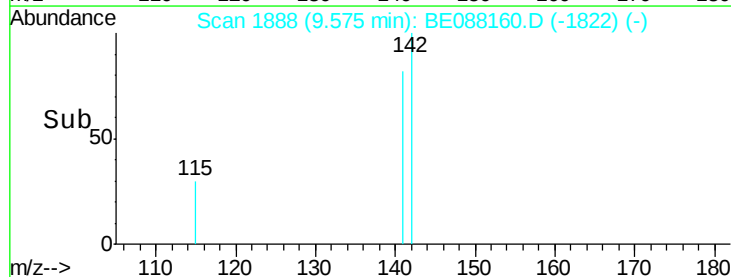
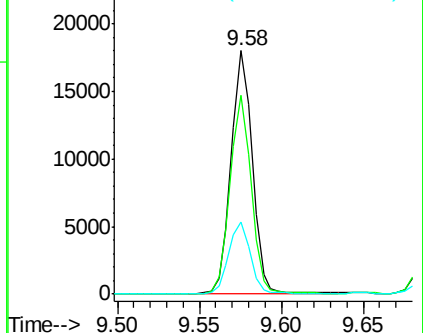
115 29.8 22.6 34.0



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: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

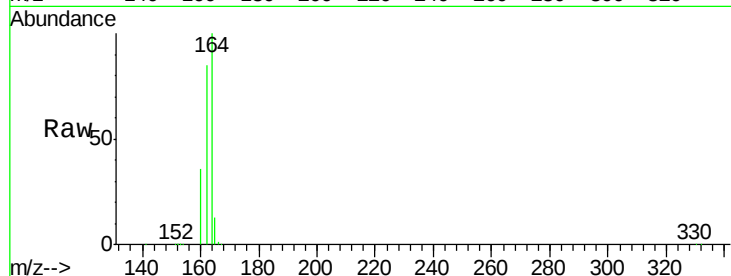
Tgt Ion:164 Resp: 57106

Ion Ratio Lower Upper

164 100

162 84.9 68.3 102.5

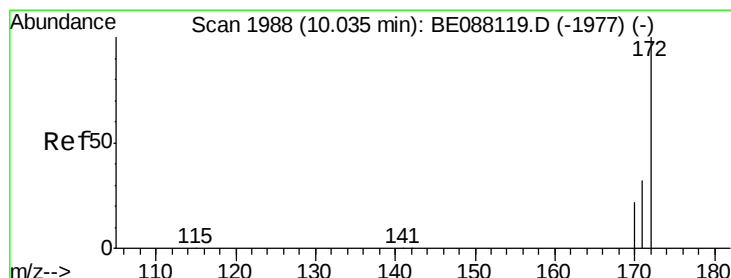
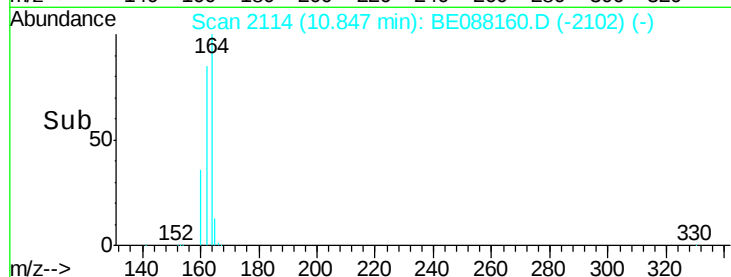
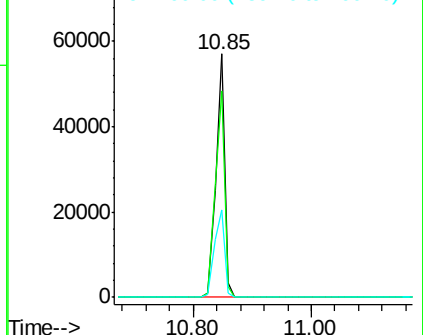
160 36.1 28.7 43.1



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: 1.04 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

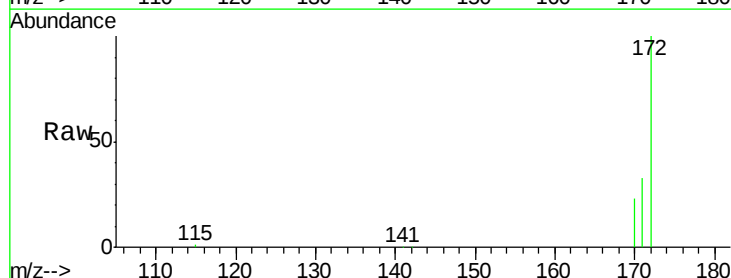
Tgt Ion:172 Resp: 16480

Ion Ratio Lower Upper

172 100

171 32.6 25.4 38.2

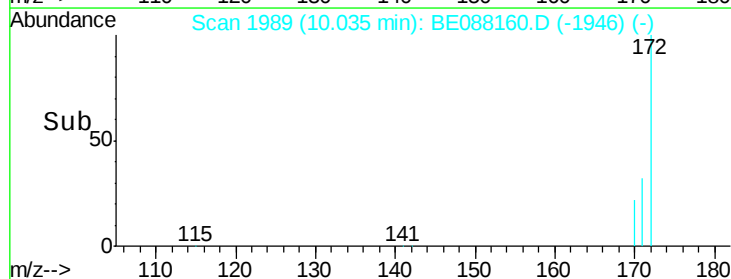
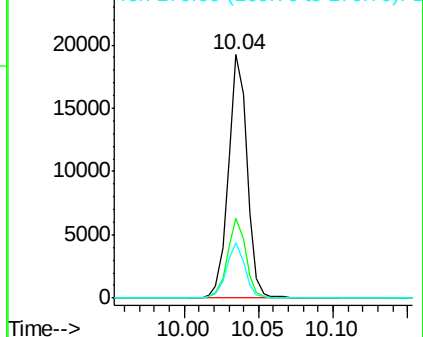
170 22.7 17.4 26.2

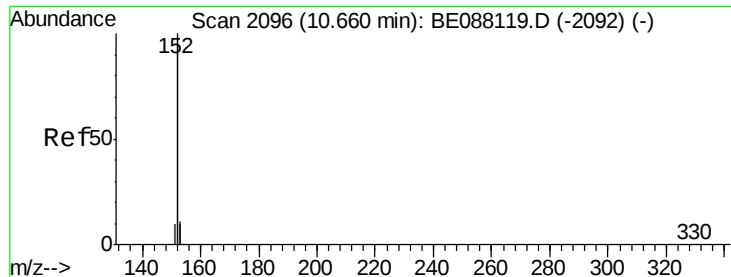


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.04 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

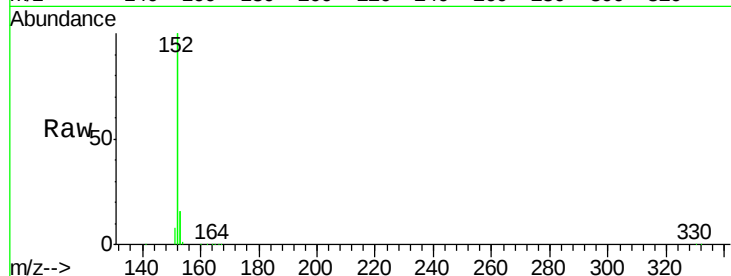
Tgt Ion:152 Resp: 90835

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

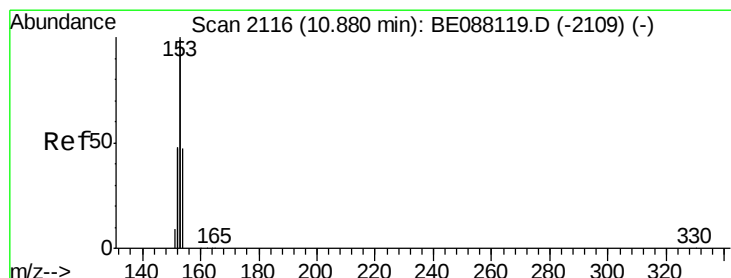
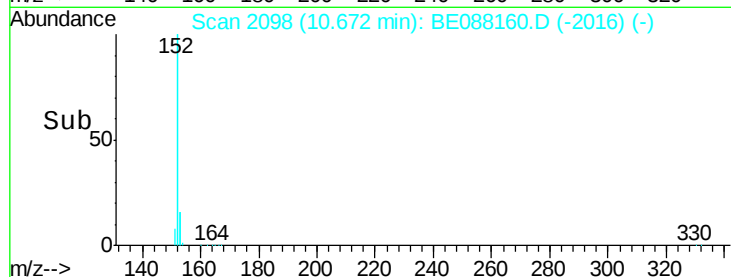
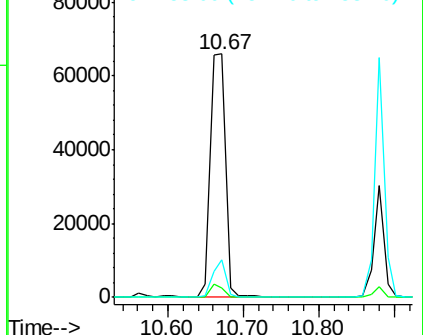
153 13.1 10.4 15.6



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: BE088160.D

Acq: 22 Oct 2014 1:54

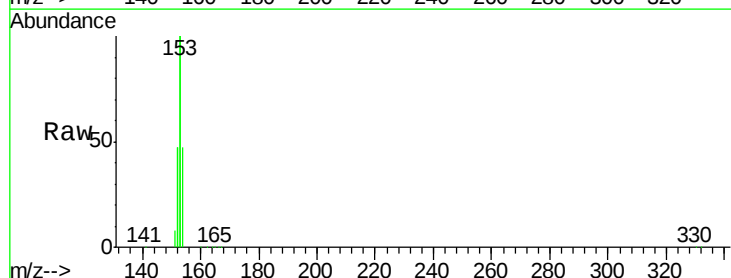
Tgt Ion:154 Resp: 13904

Ion Ratio Lower Upper

154 100

153 407.6 327.8 491.6

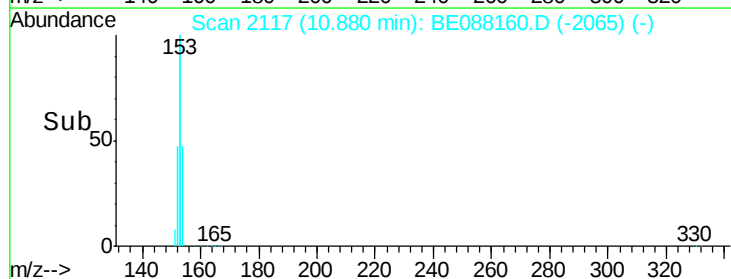
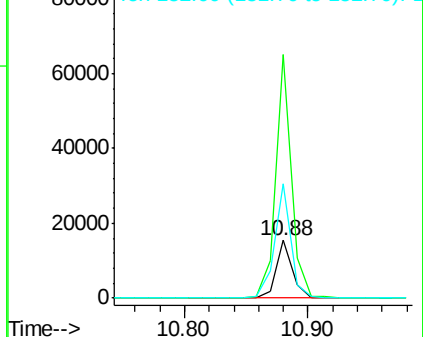
152 194.1 157.6 236.4



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: 1.02 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

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SSTDCCC001

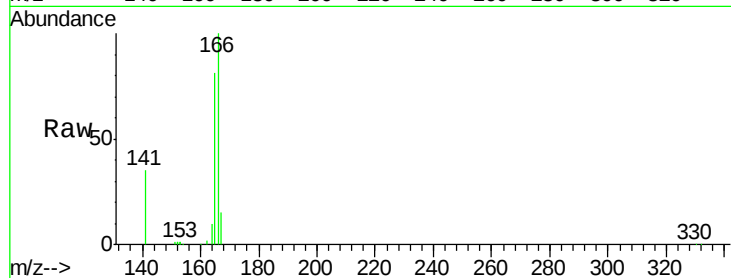
Tgt Ion:166 Resp: 14543

Ion Ratio Lower Upper

166 100

165 90.5 71.4 107.2

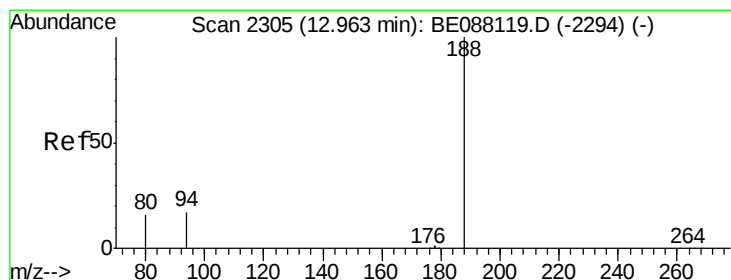
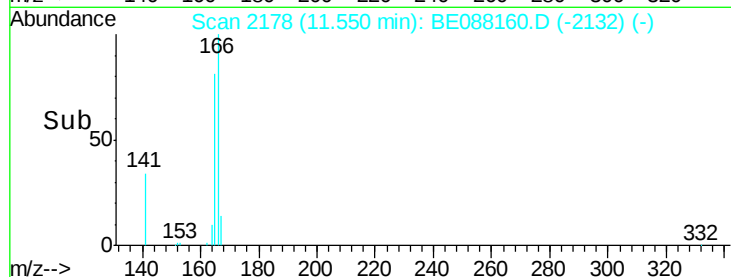
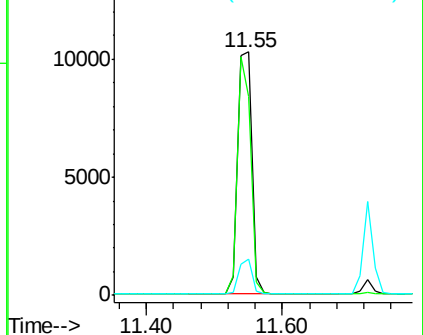
167 13.6 10.6 16.0



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: 12.96 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

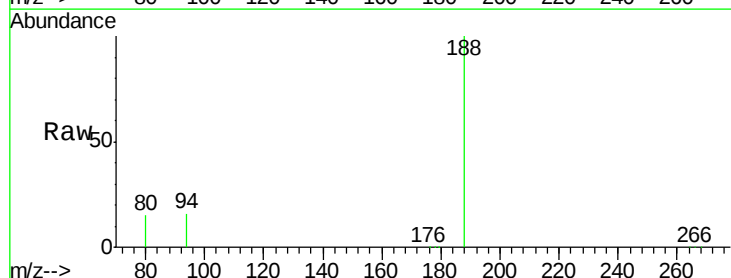
Tgt Ion:188 Resp: 81744

Ion Ratio Lower Upper

188 100

94 16.3 13.9 20.9

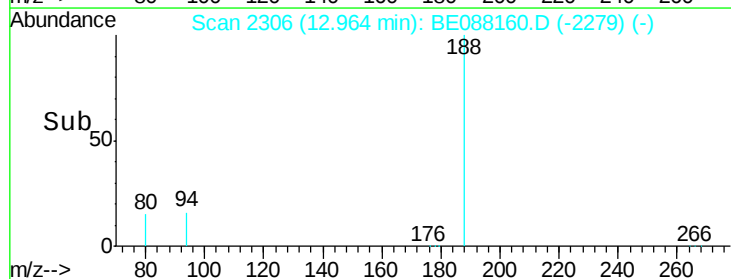
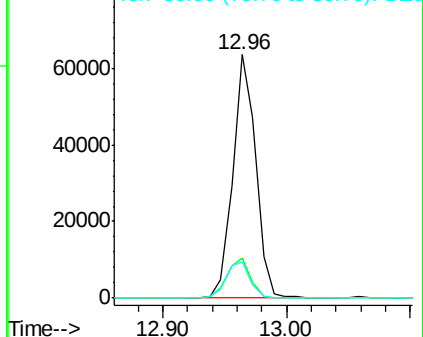
80 15.1 12.9 19.3

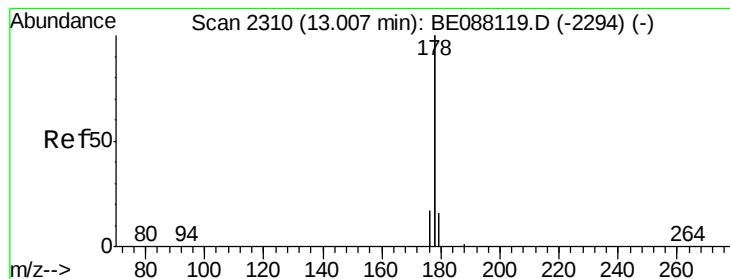


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.09 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.09 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

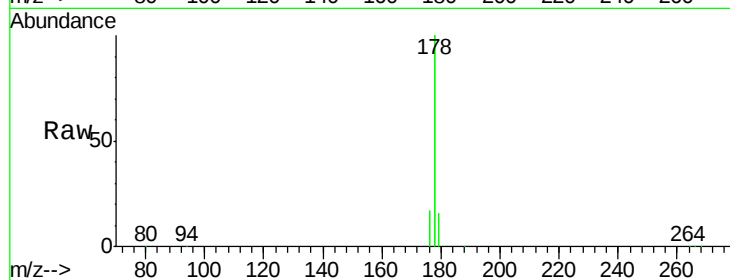
Tgt Ion:178 Resp: 76111

Ion Ratio Lower Upper

178 100

176 18.7 12.5 18.7

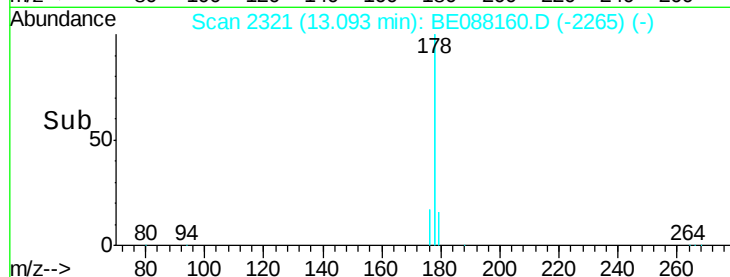
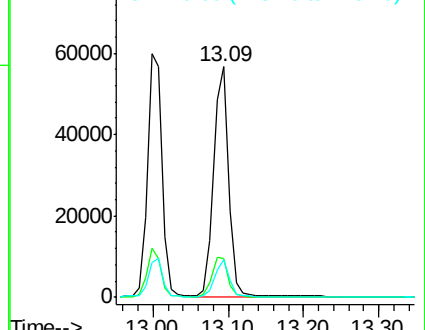
179 16.4 13.5 20.3



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: 1.19 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

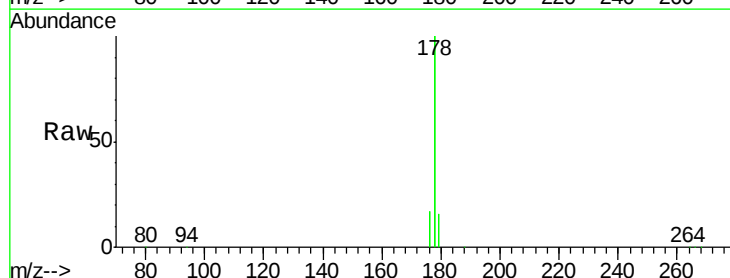
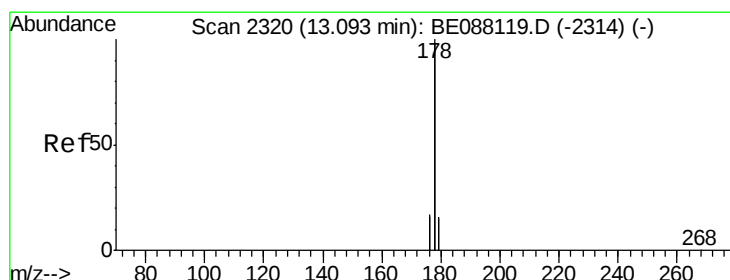
Tgt Ion:178 Resp: 76111

Ion Ratio Lower Upper

178 100

176 18.7 14.6 21.8

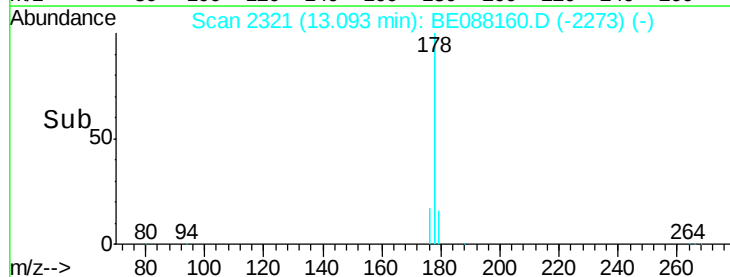
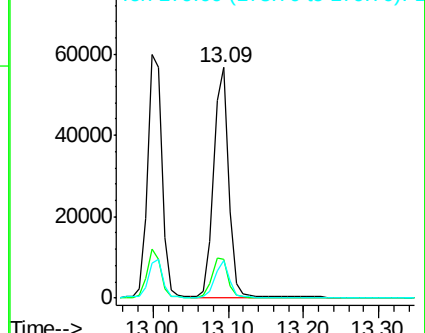
179 16.4 12.5 18.7

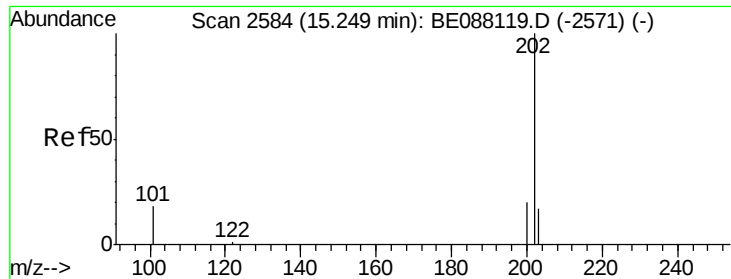


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

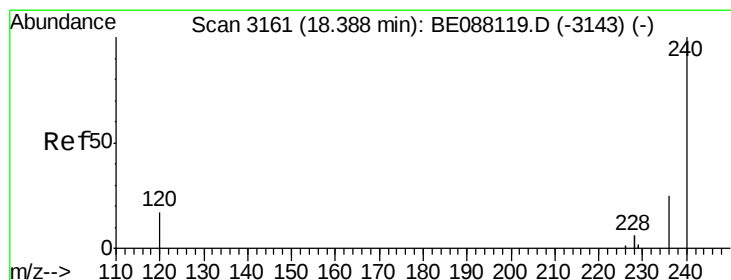
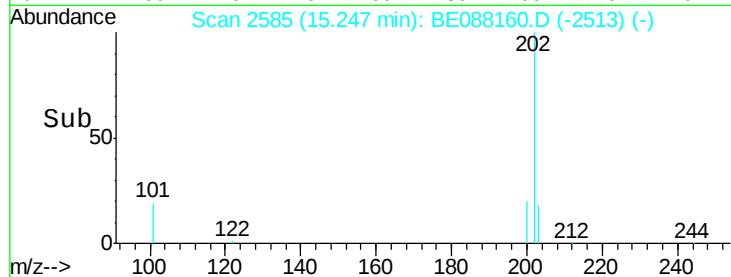
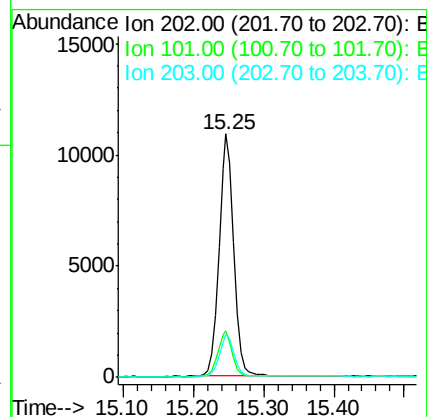
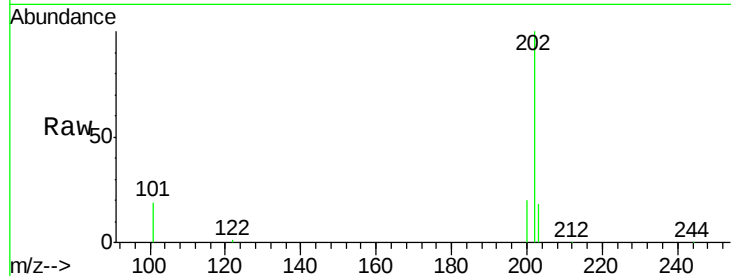




#15
 Fluoranthene
 Concen: 1.04 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088160.D
 Acq: 22 Oct 2014 1:54

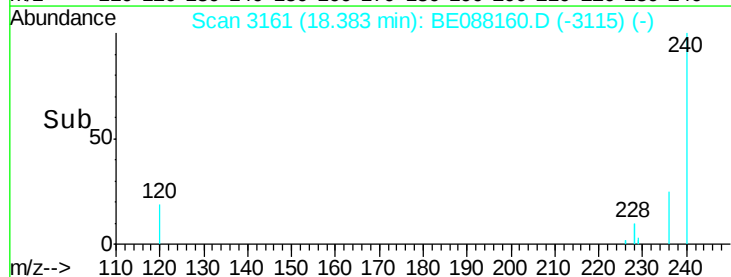
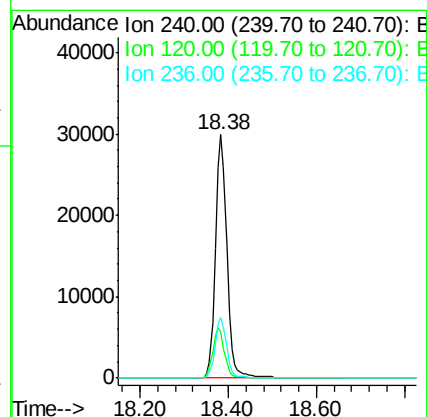
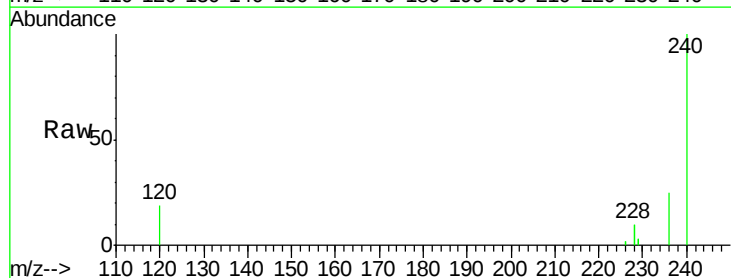
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

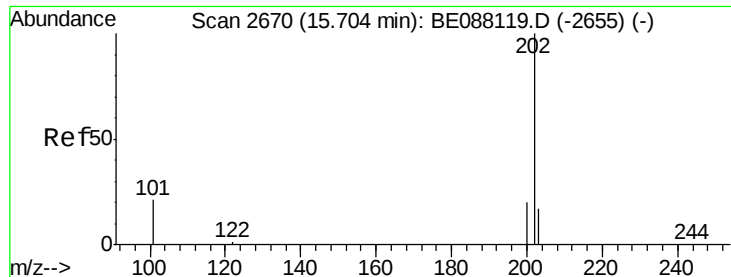
Tgt Ion: 202 Resp: 16223
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 17.1 13.5 20.3



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3161
 Delta R.T. -0.00 min
 Lab File: BE088160.D
 Acq: 22 Oct 2014 1:54

Tgt Ion: 240 Resp: 54054
 Ion Ratio Lower Upper
 240 100
 120 18.9 13.9 20.9
 236 25.1 19.9 29.9

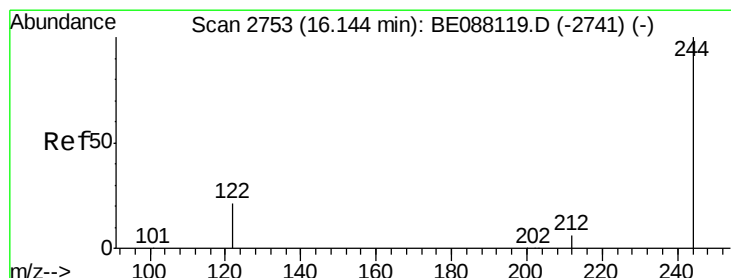
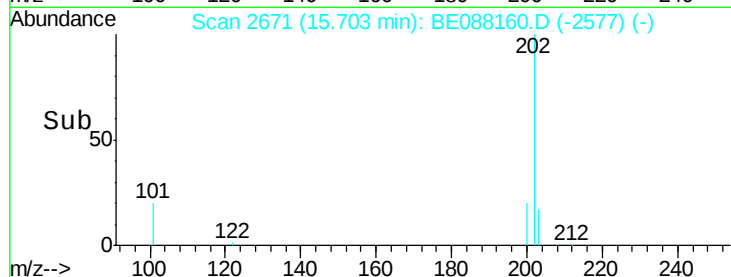
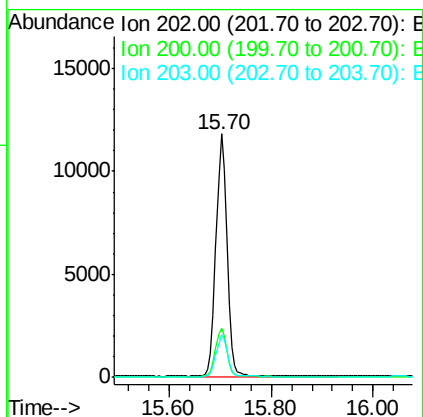
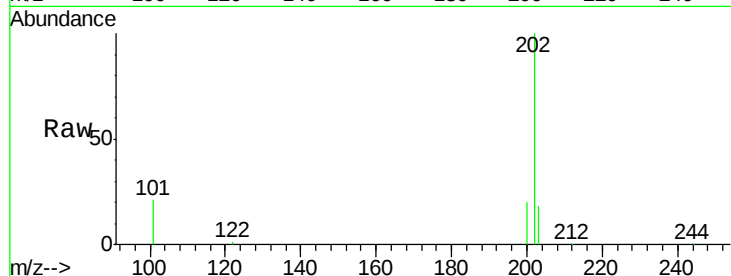




#17
 Pyrene
 Concen: 1.20 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088160.D
 Acq: 22 Oct 2014 1:54

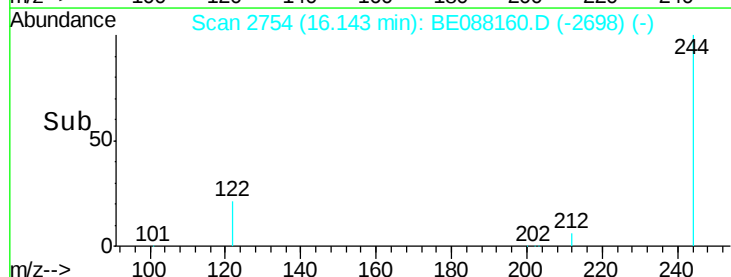
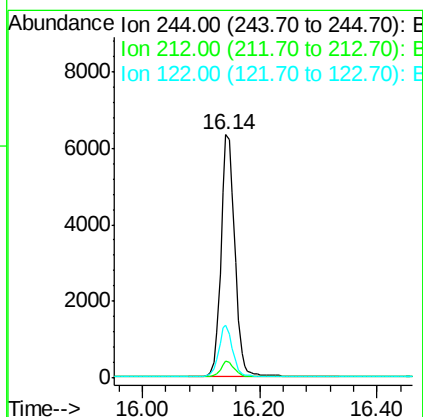
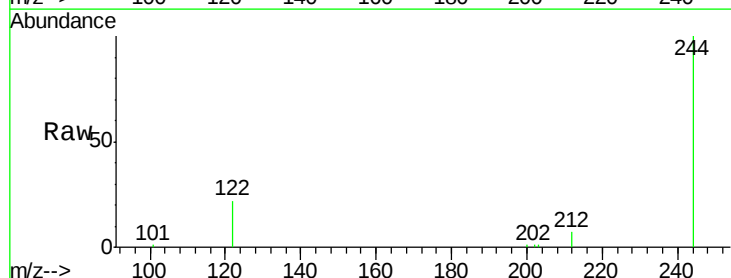
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion: 202 Resp: 17618
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.2 13.9 20.9



#18
 Terphenyl-d14
 Concen: 1.19 ng
 RT: 16.14 min Scan# 2754
 Delta R.T. -0.00 min
 Lab File: BE088160.D
 Acq: 22 Oct 2014 1:54

Tgt Ion: 244 Resp: 10316
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 21.6 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.92 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

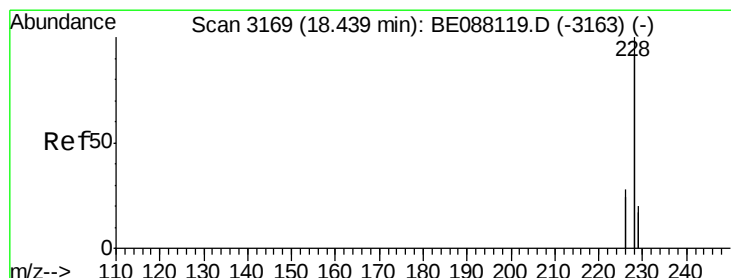
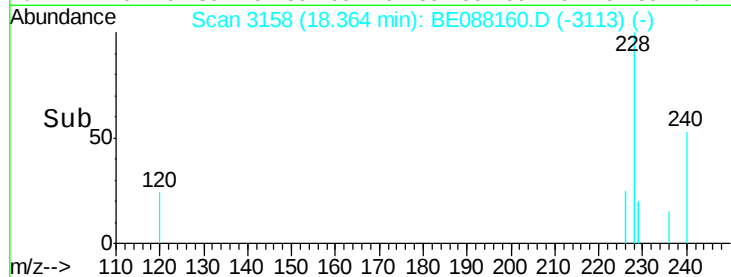
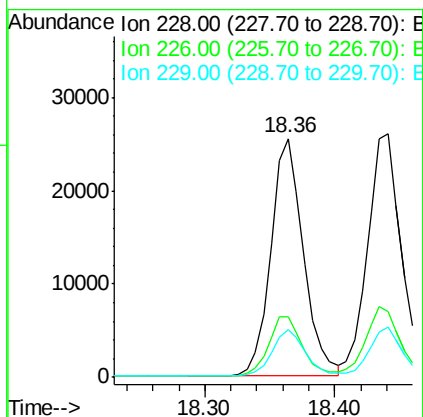
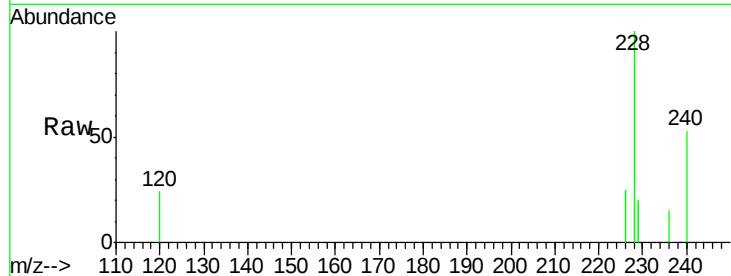
Tgt Ion:228 Resp: 44288

Ion Ratio Lower Upper

228 100

226 25.4 20.8 31.2

229 20.0 15.6 23.4



#20

Chrysene

Concen: 1.04 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

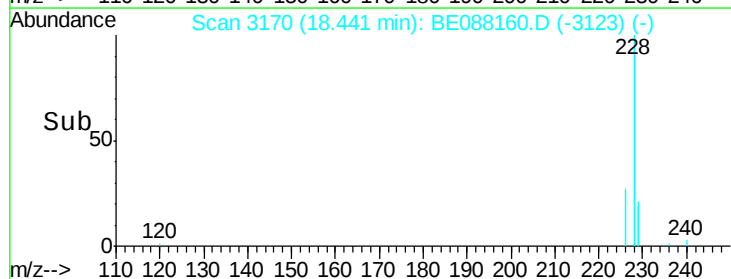
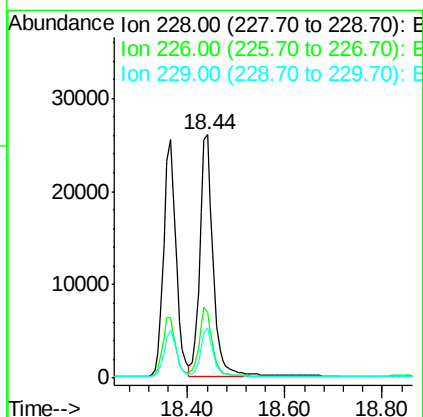
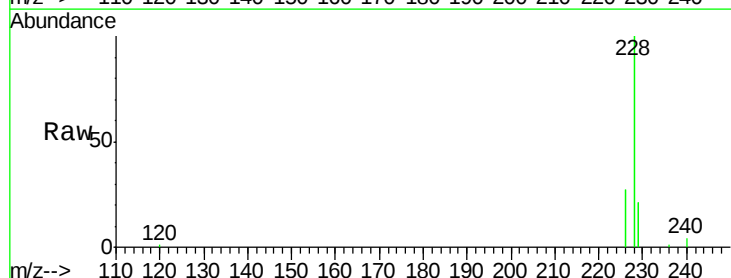
Tgt Ion:228 Resp: 49016

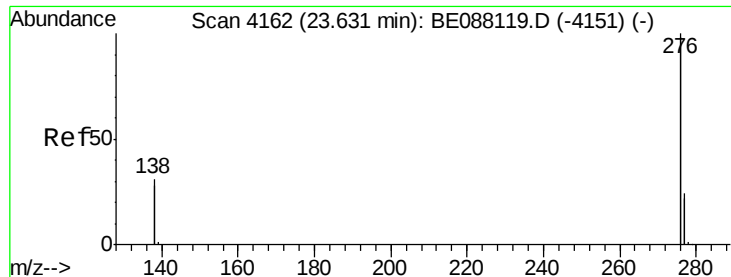
Ion Ratio Lower Upper

228 100

226 27.2 22.7 34.1

229 20.6 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.62 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

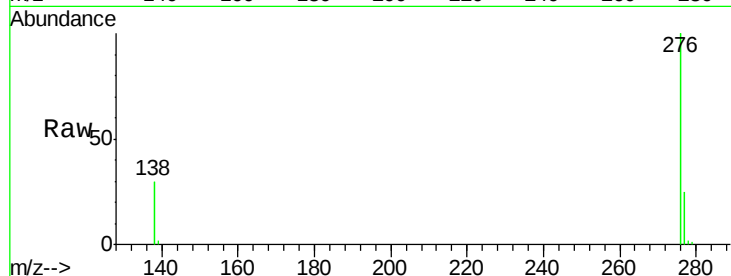
Tgt Ion:276 Resp: 32518

Ion Ratio Lower Upper

276 100

138 28.4 18.5 27.7#

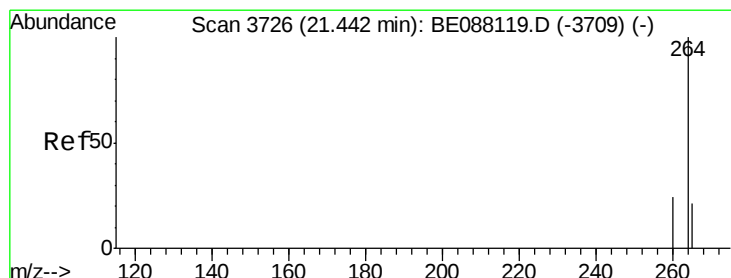
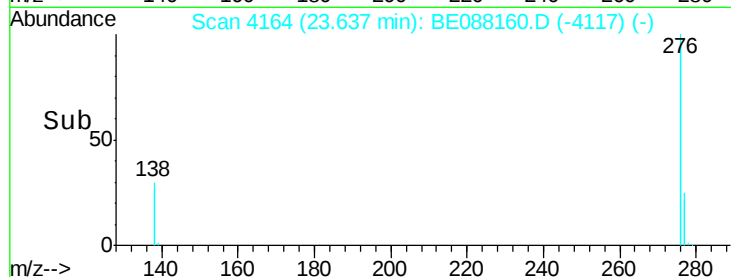
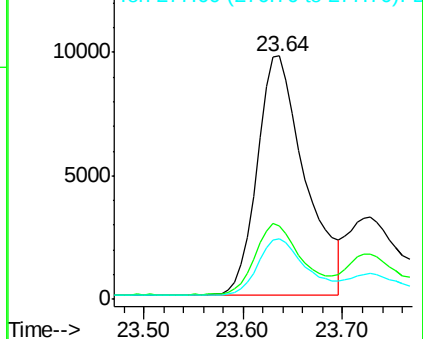
277 23.7 14.6 21.8#



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: BE088160.D

Acq: 22 Oct 2014 1:54

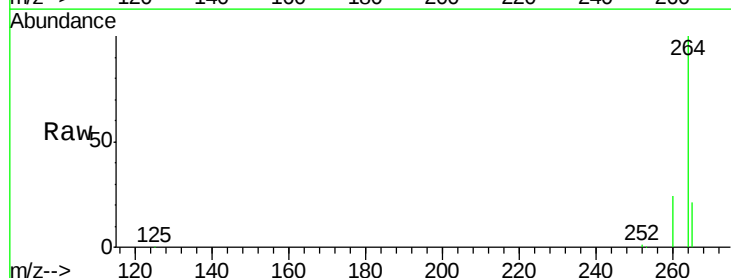
Tgt Ion:264 Resp: 46314

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

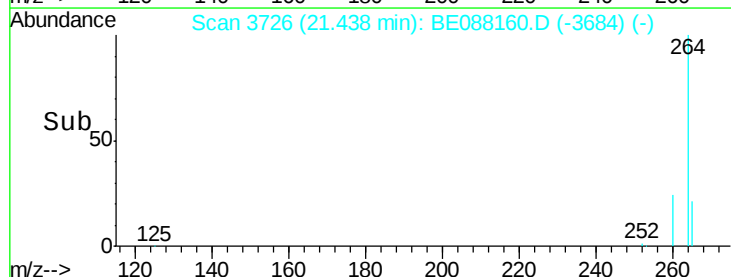
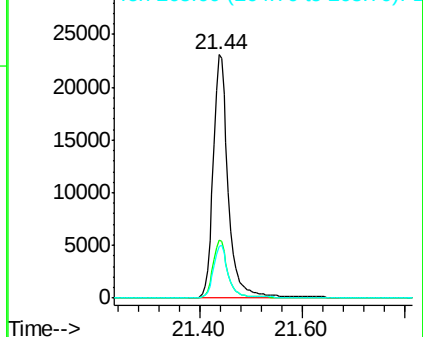
265 21.3 17.2 25.8

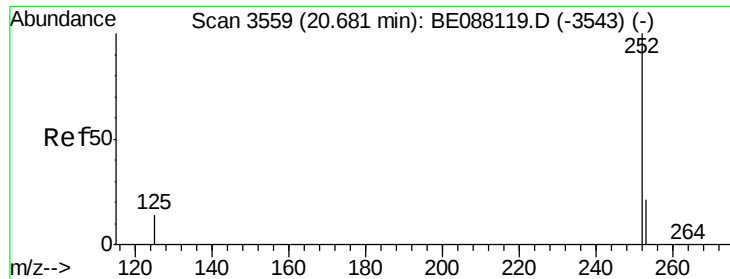


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.87 ng

RT: 20.68 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

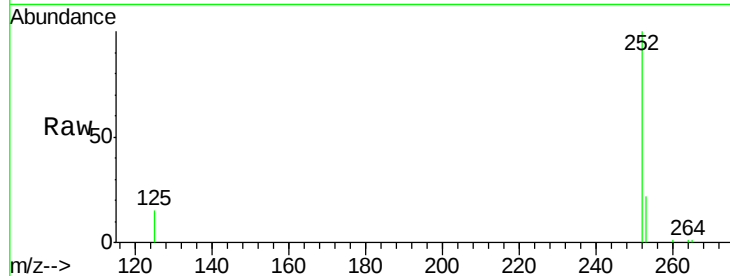
Tgt Ion:252 Resp: 9634

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

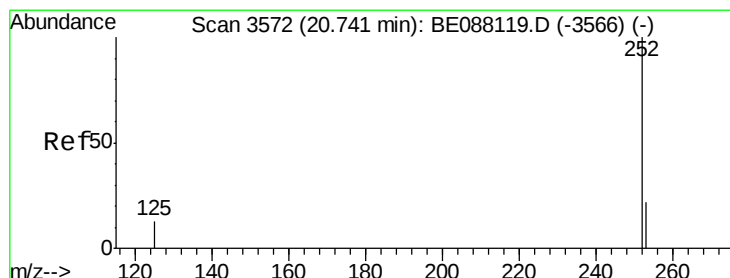
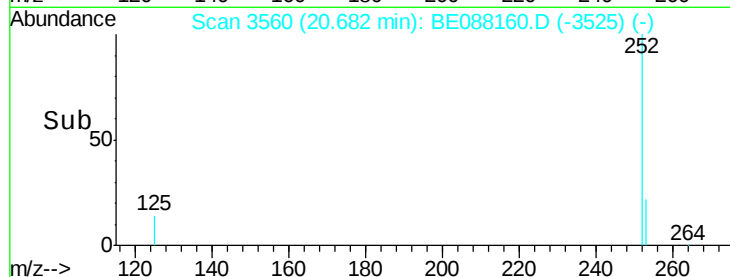
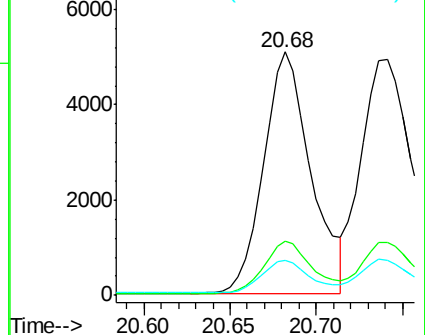
125 14.6 11.8 17.8



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: 0.99 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

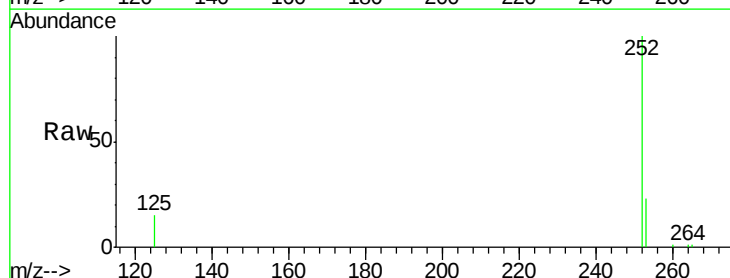
Tgt Ion:252 Resp: 11673

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

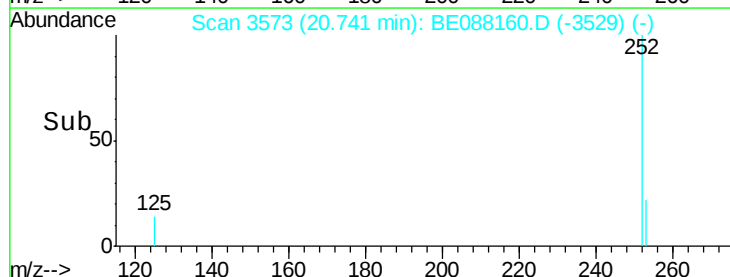
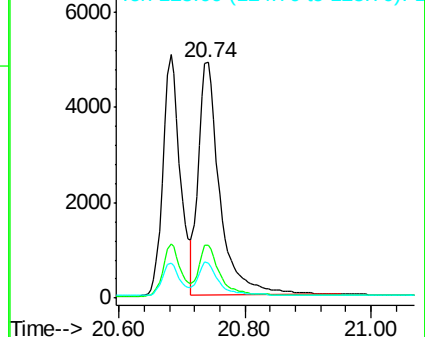
125 14.9 11.5 17.3



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: 0.88 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088160.D

Acq: 22 Oct 2014 1:54

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

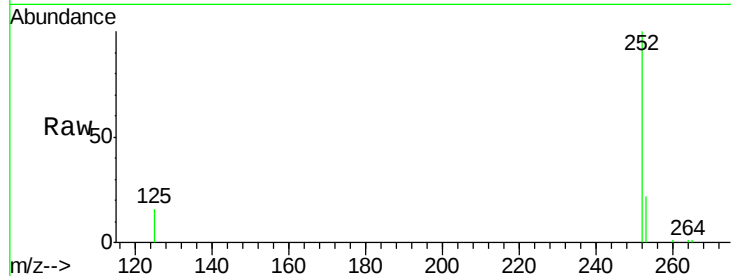
Tgt Ion:252 Resp: 8967

Ion Ratio Lower Upper

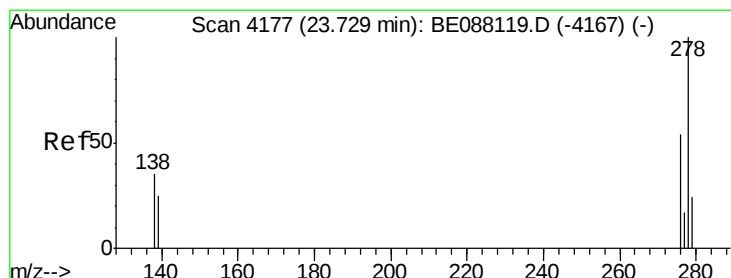
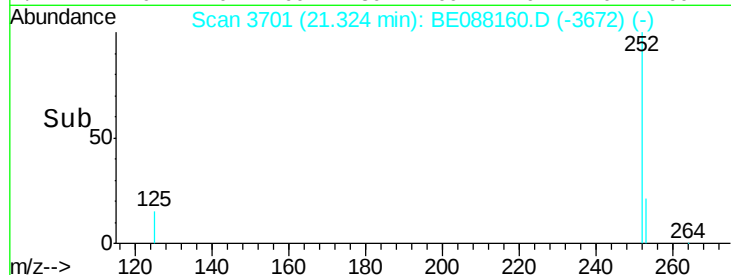
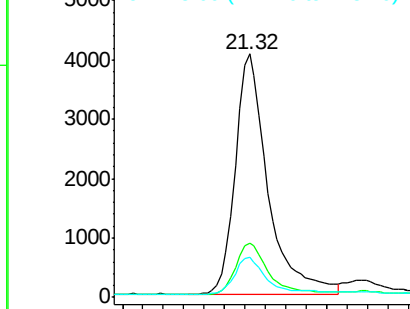
252 100

253 22.2 17.5 26.3

125 16.3 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: BE088160.D

Acq: 22 Oct 2014 1:54

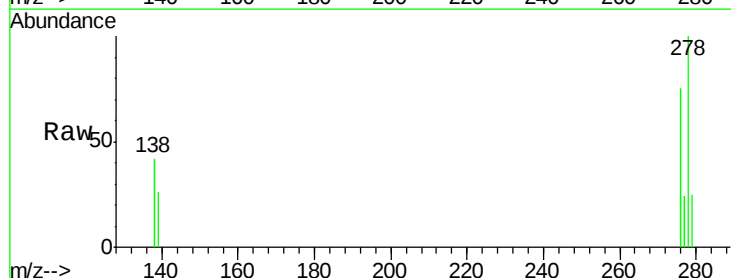
Tgt Ion:278 Resp: 8895

Ion Ratio Lower Upper

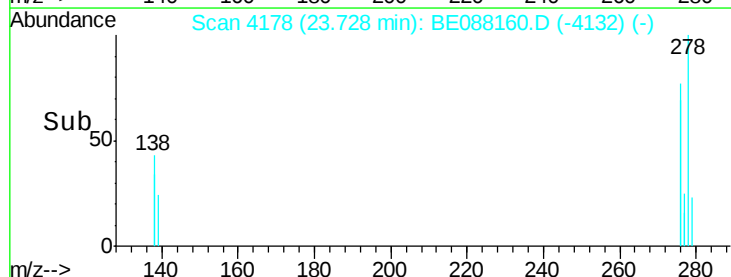
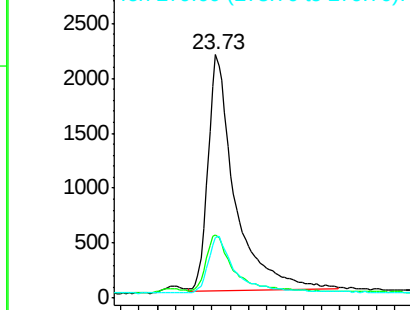
278 100

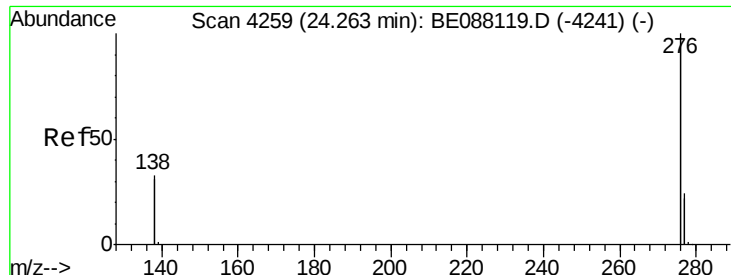
139 26.1 20.9 31.3

279 24.8 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

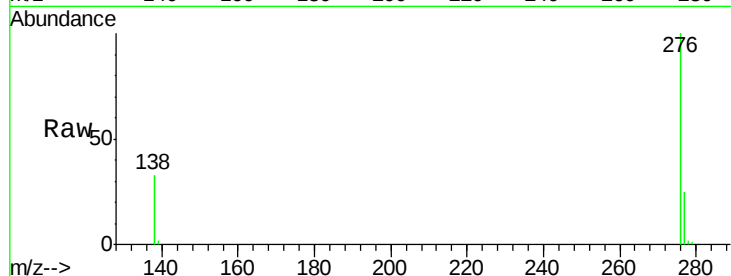




#27
 Benzo(g,h,i)perylene
 Concen: 0.99 ng
 RT: 24.26 min Scan# 4260
 Delta R.T. -0.00 min
 Lab File: BE088160.D
 Acq: 22 Oct 2014 1:54

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	33.2	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

