

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089692.D
 Acq On : 26 Feb 2015 12:50
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Feb 27 01:16:05 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 14:06:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	47093	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	225479	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	115857	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	190148	5.00	ng	0.00
19) Chrysene-d12	23.65	240	103991	5.00	ng	0.00
25) Perylene-d12	25.34	264	75387	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	7725	0.75	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	23869	0.91	ng	0.00
21) Terphenyl-d14	22.30	244	14383	1.18	ng	0.00

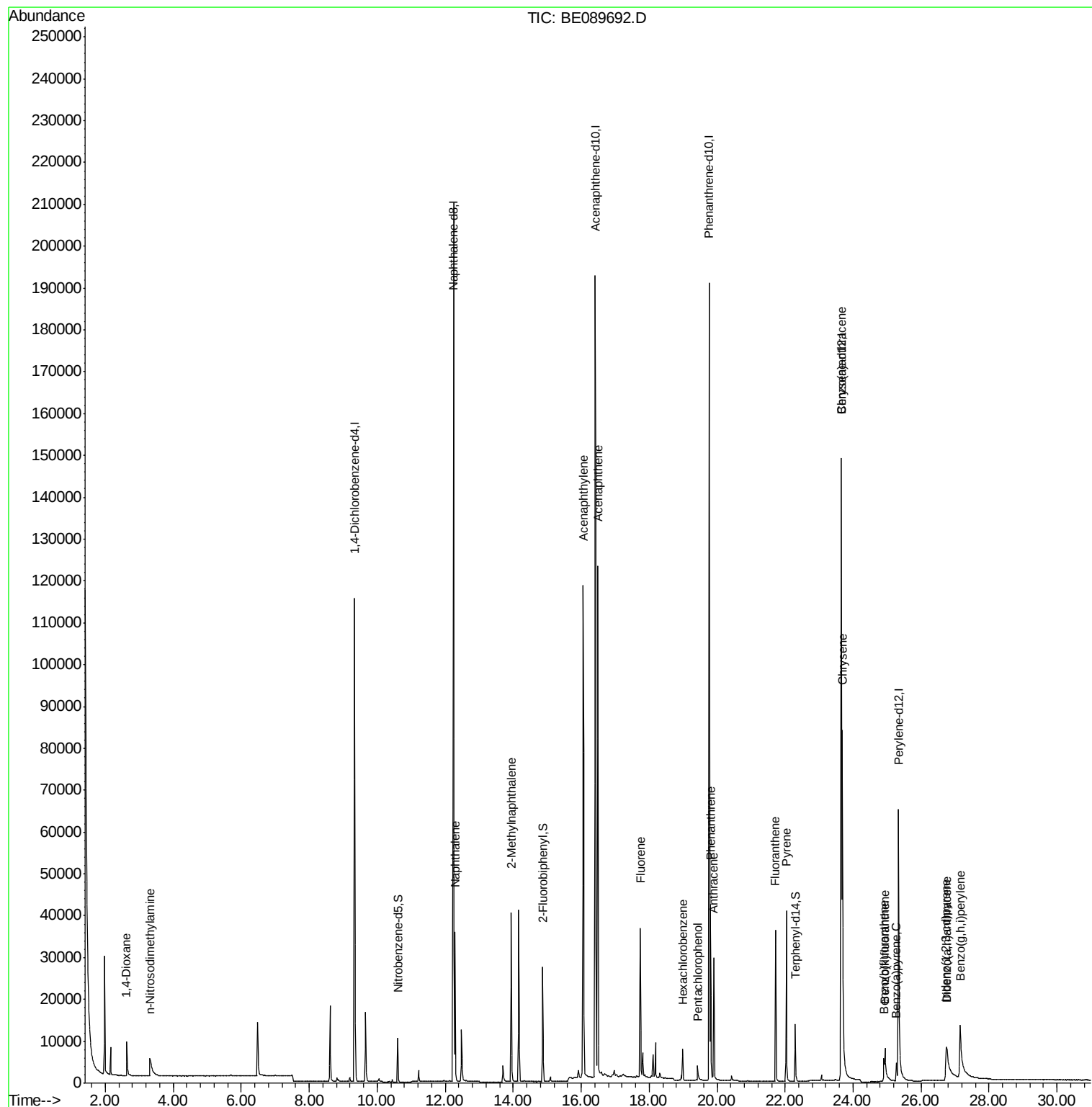
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.63	88	5572	0.94	ng	93
3) n-Nitrosodimethylamine	3.32	42	7146	0.97	ng	99
6) Naphthalene	12.29	128	40352	0.92	ng	100
7) 2-Methylnaphthalene	13.94	142	24964	1.01	ng	98
10) Acenaphthylene	16.06	152	150617	0.91	ng	100
11) Acenaphthene	16.49	154	24192	0.92	ng	99
12) Fluorene	17.74	166	26669	0.91	ng	99
14) Hexachlorobenzene	18.99	284	4792	0.97	ng	99
15) Pentachlorophenol	19.43	266	3031	3.69	ng	95
16) Phenanthrene	19.81	178	36429	0.90	ng	100
17) Anthracene	19.90	178	31006	0.90	ng	99
18) Fluoranthene	21.72	202	26957	0.80	ng	99
20) Pyrene	22.04	202	29380	1.17	ng	100
22) Benzo(a)anthracene	23.65	228	59354	0.87	ng	98
23) Chrysene	23.68	228	86728	0.92	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	30235	1.08	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	5259	1.09	ng	99
27) Benzo(k)fluoranthene	24.94	252	15756	0.90	ng	99
28) Benzo(a)pyrene	25.27	252	6142	1.04	ng	98
29) Dibenzo(a,h)anthracene	26.77	278	5592	1.18	ng	93
30) Benzo(g,h,i)perylene	27.15	276	34867	1.05	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

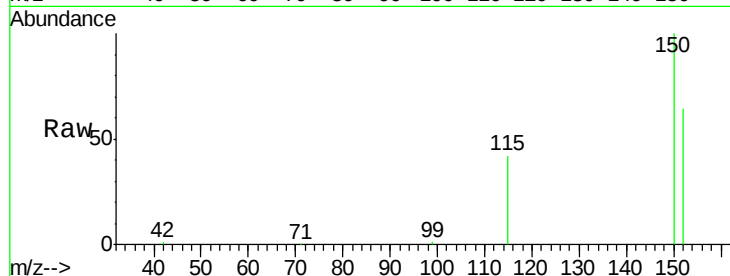
Tgt Ion:152 Resp: 47093

Ion Ratio Lower Upper

152 100

150 157.2 123.4 185.0

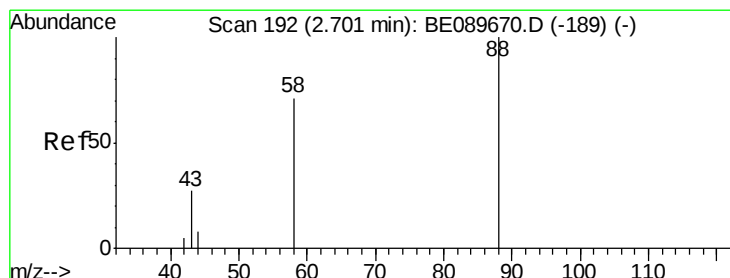
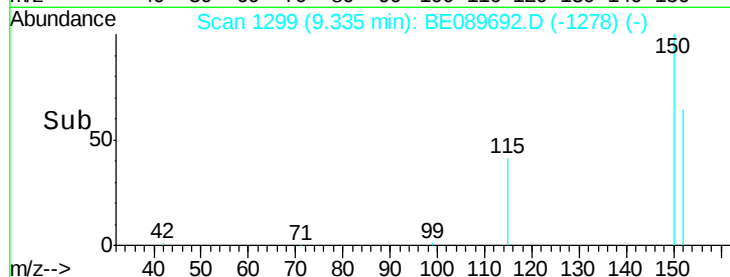
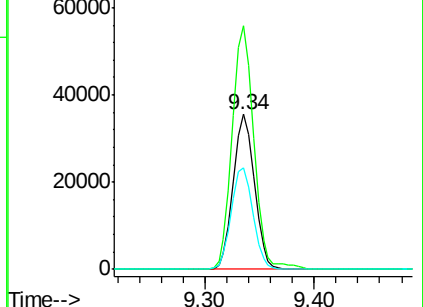
115 65.3 50.8 76.2



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: 0.94 ng

RT: 2.63 min Scan# 181

Delta R.T. -0.07 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

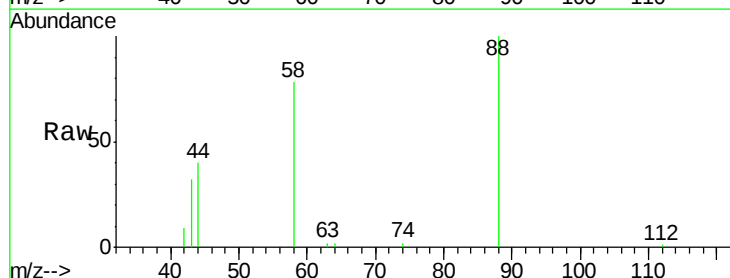
Tgt Ion: 88 Resp: 5572

Ion Ratio Lower Upper

88 100

58 85.6 62.4 93.6

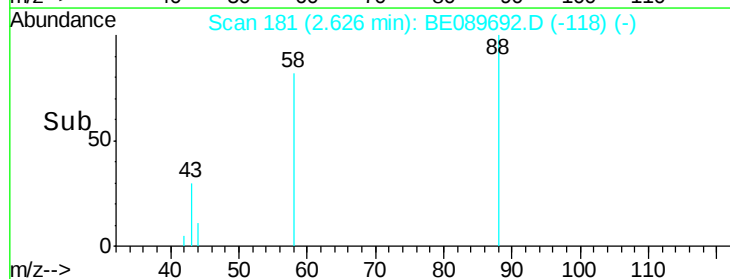
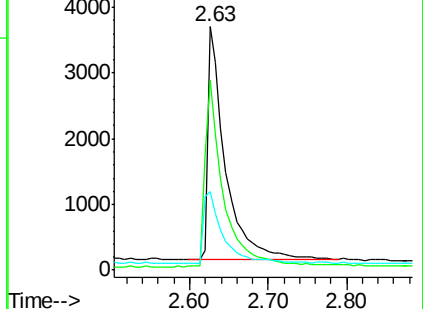
43 34.5 26.6 40.0

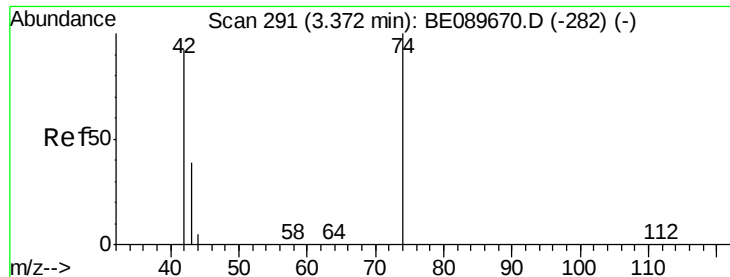


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



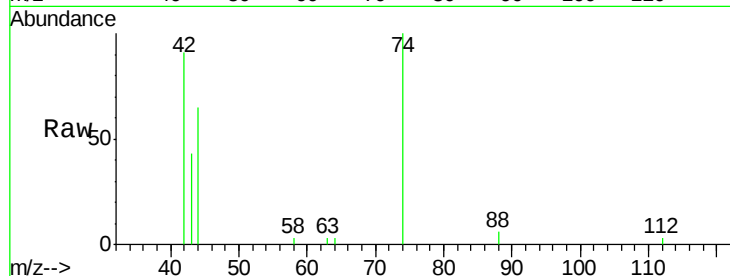


#3

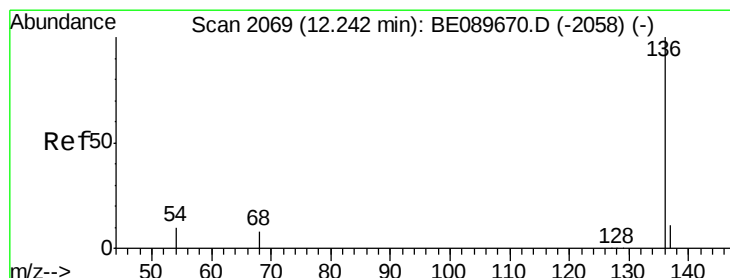
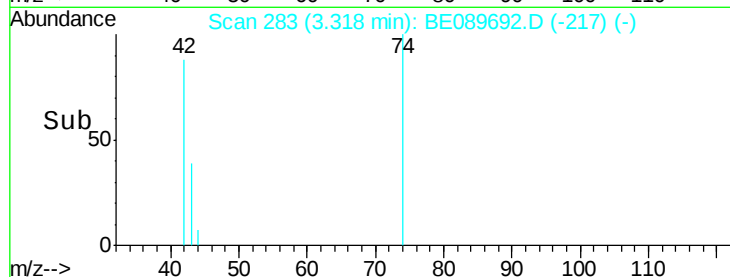
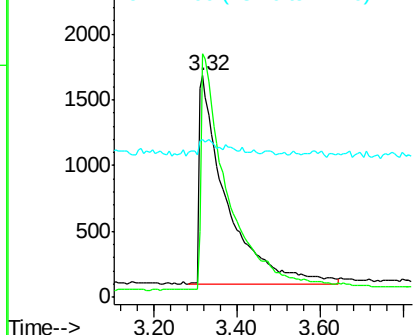
n-Nitrosodimethylamine
Concen: 0.97 ng
RT: 3.32 min Scan# 283
Delta R.T. -0.05 min
Lab File: BE089692.D
Acq: 26 Feb 2015 12:50

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tgt Ion: 42 Resp: 7146
Ion Ratio Lower Upper
42 100
74 113.2 91.1 136.7
44 5.2 4.7 7.1



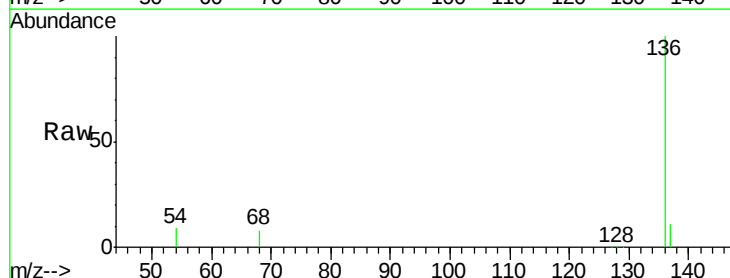
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



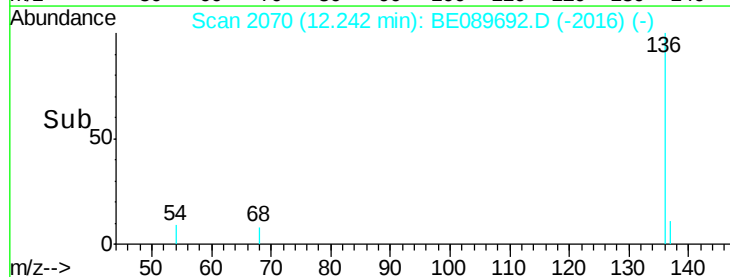
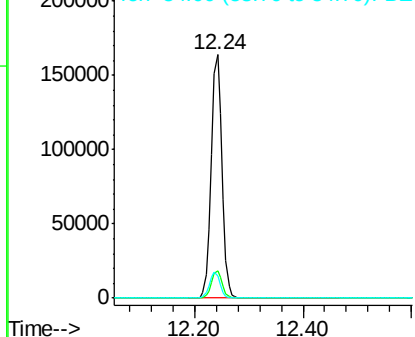
#4

Naphthalene-d8
Concen: 5.00 ng
RT: 12.24 min Scan# 2070
Delta R.T. -0.00 min
Lab File: BE089692.D
Acq: 26 Feb 2015 12:50

Tgt Ion: 136 Resp: 225479
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 9.4 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 0.75 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

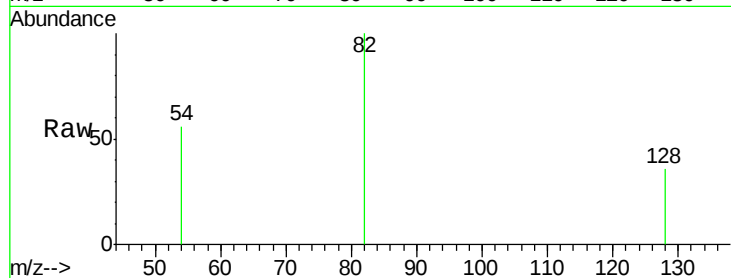
Tgt Ion: 82 Resp: 7725

Ion Ratio Lower Upper

82 100

128 36.4 30.6 46.0

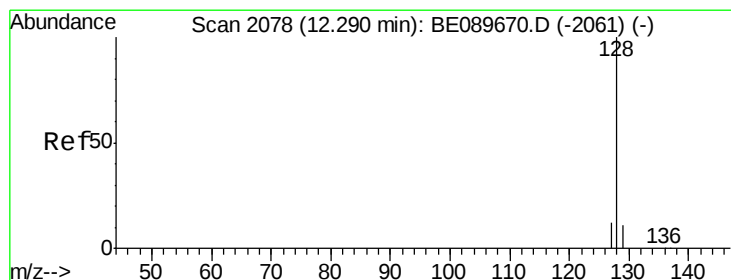
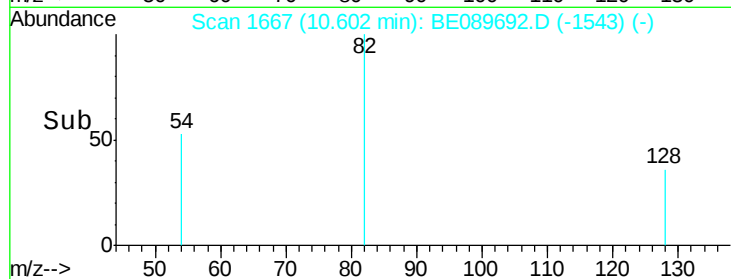
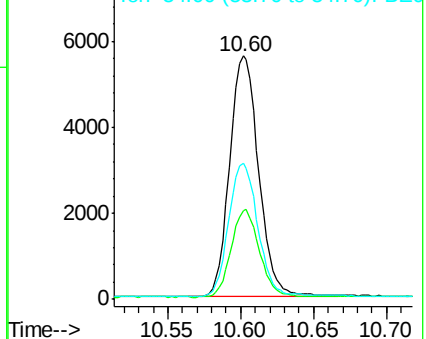
54 55.7 43.6 65.4



Abundance Ion 82.00 (81.70 to 82.70): BE089692.D (-1543) (-)

Ion 128.00 (127.70 to 128.70): BE089692.D (-1543) (-)

Ion 54.00 (53.70 to 54.70): BE089692.D (-1543) (-)



#6

Naphthalene

Concen: 0.92 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

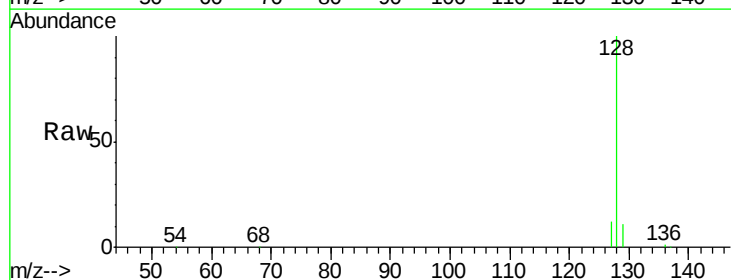
Tgt Ion: 128 Resp: 40352

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

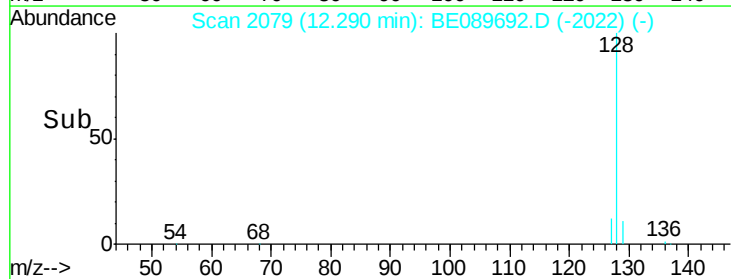
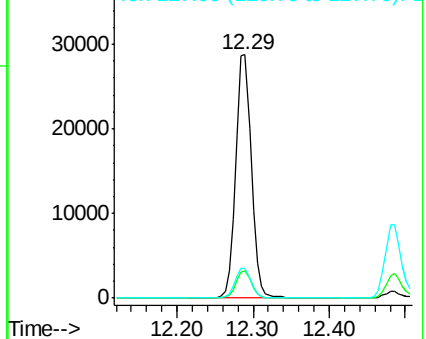
127 12.2 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): BE089692.D (-2022) (-)

Ion 129.00 (128.70 to 129.70): BE089692.D (-2022) (-)

Ion 127.00 (126.70 to 127.70): BE089692.D (-2022) (-)





#7

2-Methylnaphthalene

Concen: 1.01 ng

RT: 13.94 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

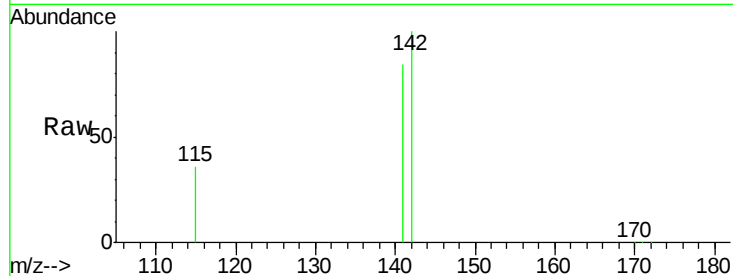
Tgt Ion:142 Resp: 24964

Ion Ratio Lower Upper

142 100

141 84.1 66.0 99.0

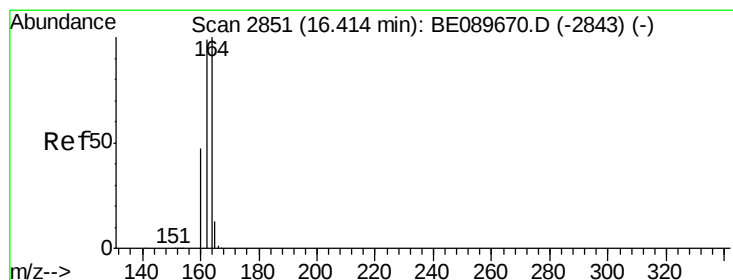
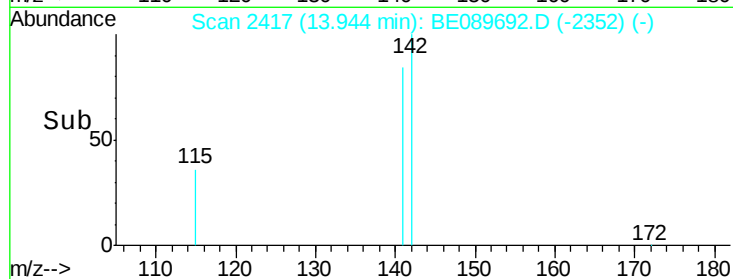
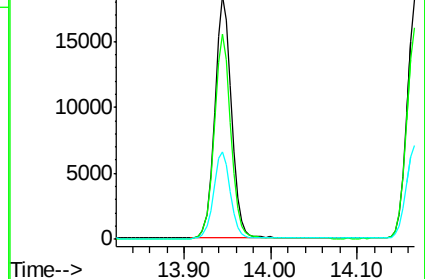
115 36.2 27.4 41.0



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

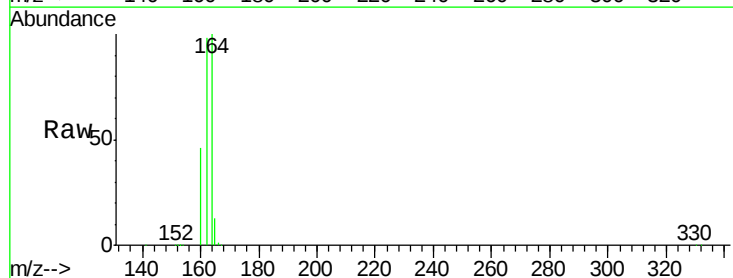
Tgt Ion:164 Resp: 115857

Ion Ratio Lower Upper

164 100

162 97.6 79.4 119.2

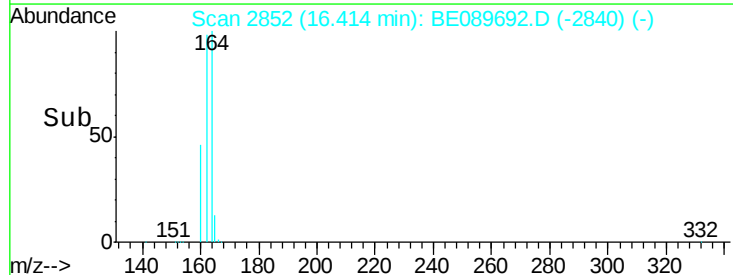
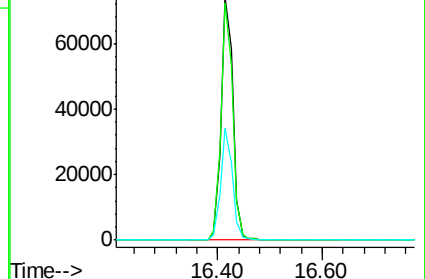
160 45.7 37.6 56.4



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





#9

2-Fluorobiphenyl

Concen: 0.91 ng

RT: 14.87 min Scan# 2621

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

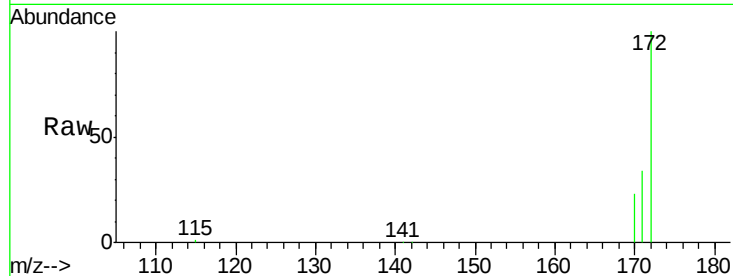
Tgt Ion:172 Resp: 23869

Ion Ratio Lower Upper

172 100

171 33.7 27.3 40.9

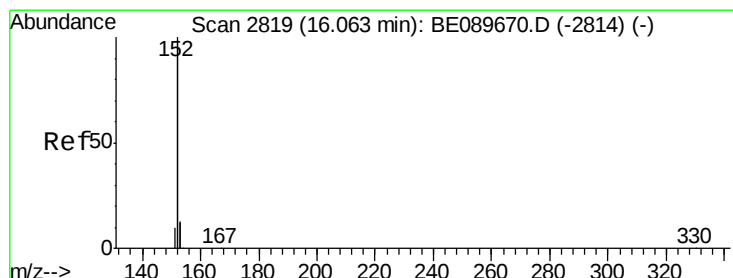
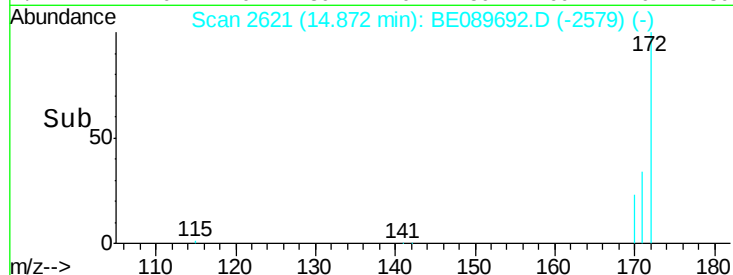
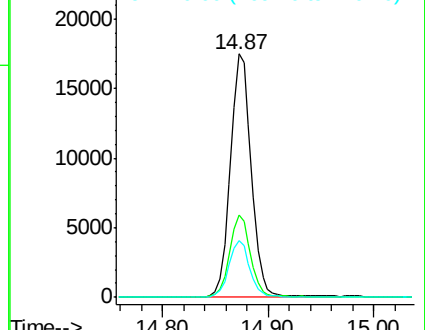
170 23.1 18.5 27.7



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



#10

Acenaphthylene

Concen: 0.91 ng

RT: 16.06 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

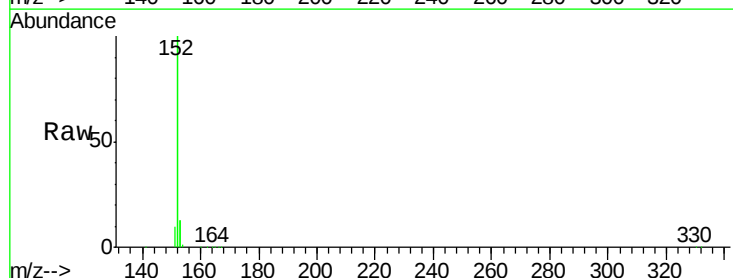
Tgt Ion:152 Resp: 150617

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.6

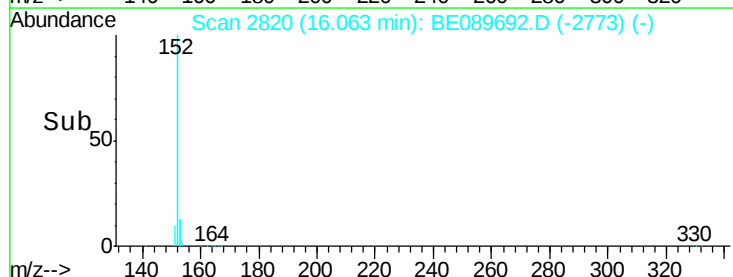
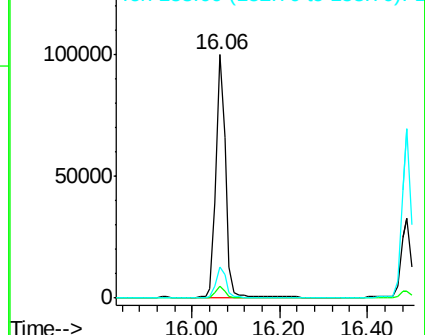
153 13.1 10.4 15.6

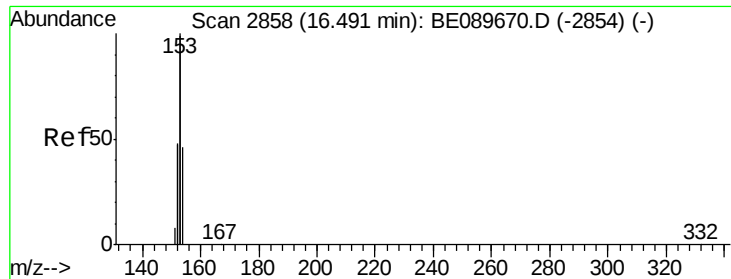


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.92 ng

RT: 16.49 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

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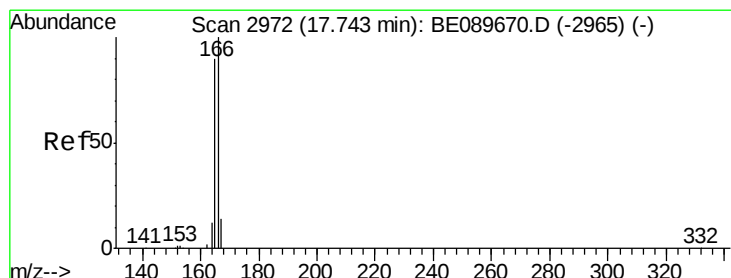
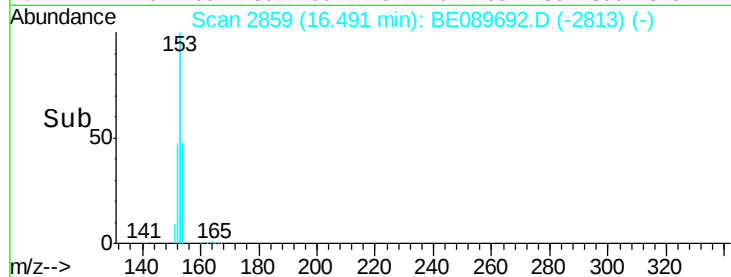
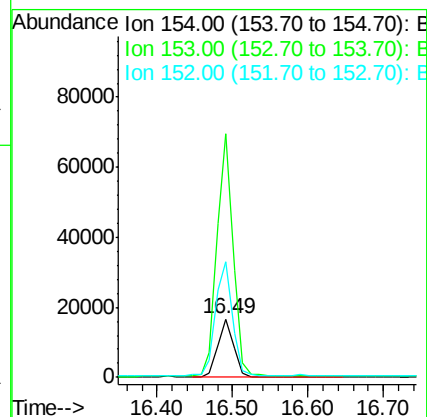
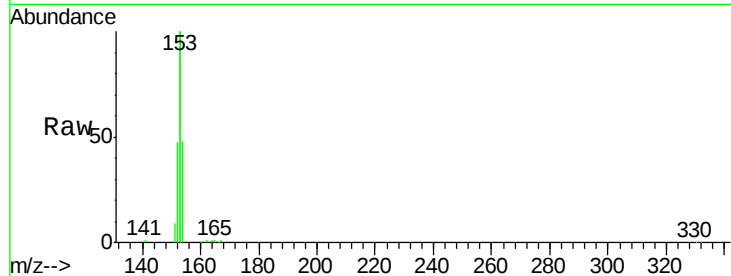
Tgt Ion:154 Resp: 24192

Ion Ratio Lower Upper

154 100

153 432.9 345.8 518.8

152 212.9 168.6 252.8



#12

Fluorene

Concen: 0.91 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

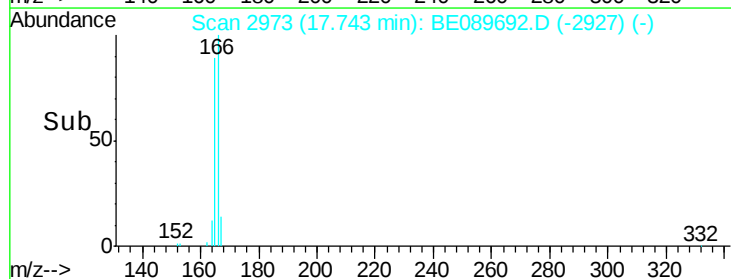
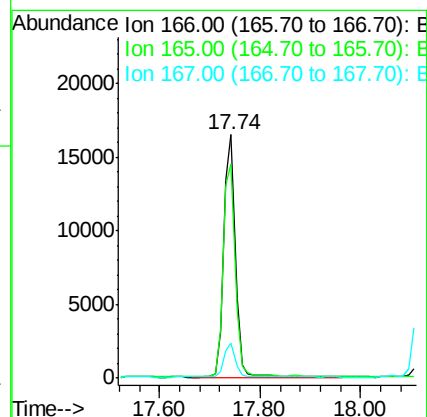
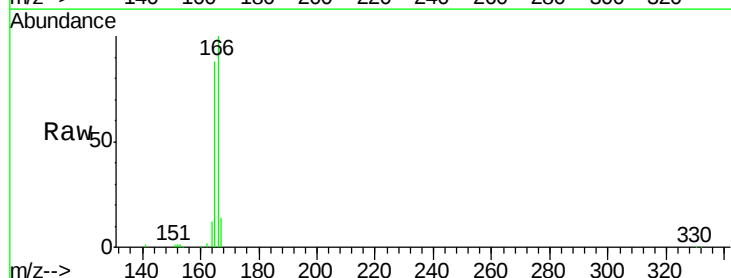
Tgt Ion:166 Resp: 26669

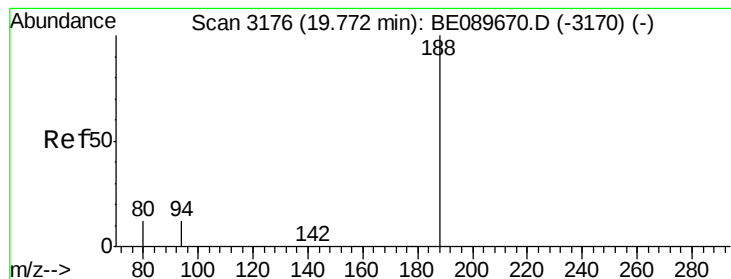
Ion Ratio Lower Upper

166 100

165 91.0 73.6 110.4

167 13.6 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.76 min Scan# 3176

Delta R.T. -0.01 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

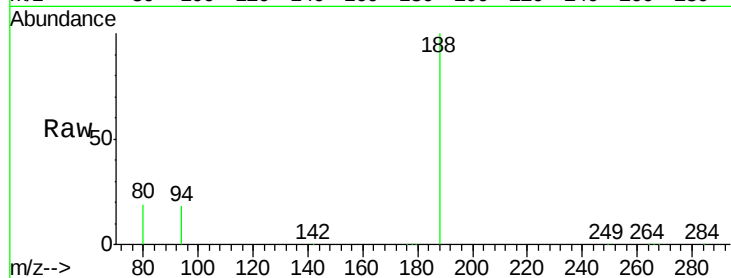
Tgt Ion:188 Resp: 190148

Ion Ratio Lower Upper

188 100

94 17.8 9.4 14.2#

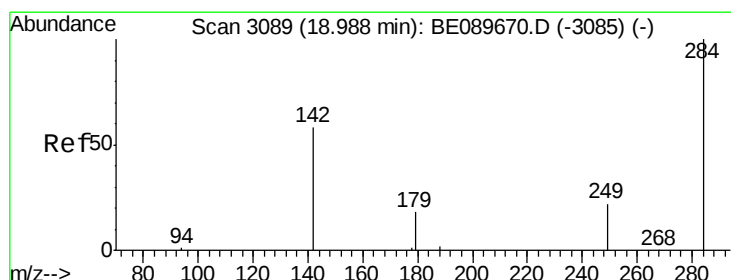
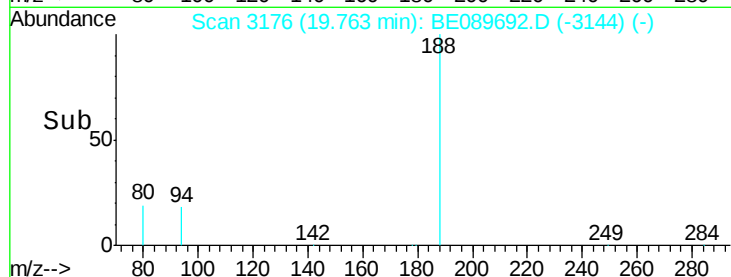
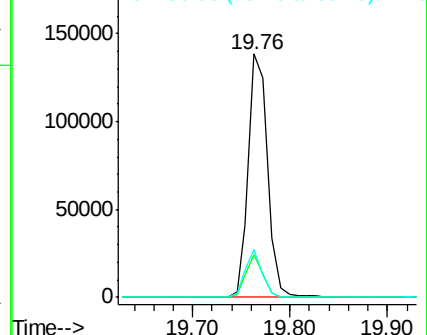
80 19.4 9.5 14.3#



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



#14

Hexachlorobenzene

Concen: 0.97 ng

RT: 18.99 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

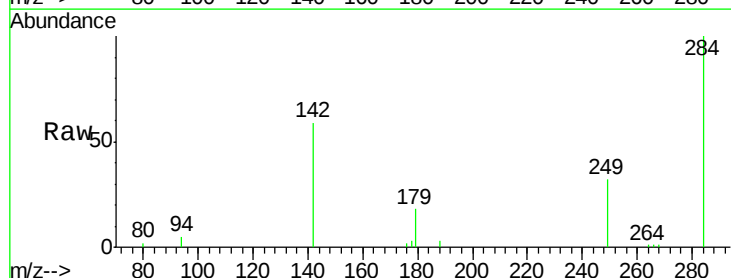
Tgt Ion:284 Resp: 4792

Ion Ratio Lower Upper

284 100

142 69.0 55.4 83.2

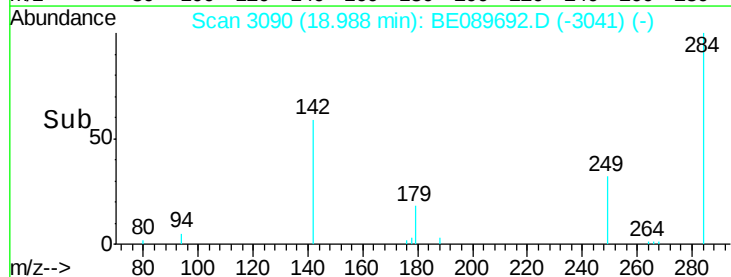
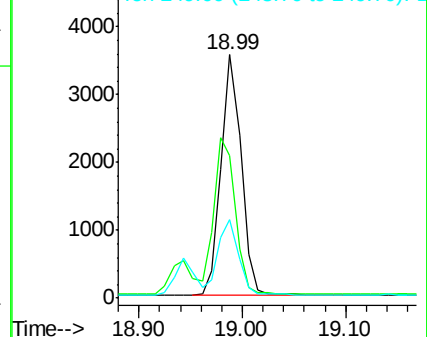
249 32.6 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

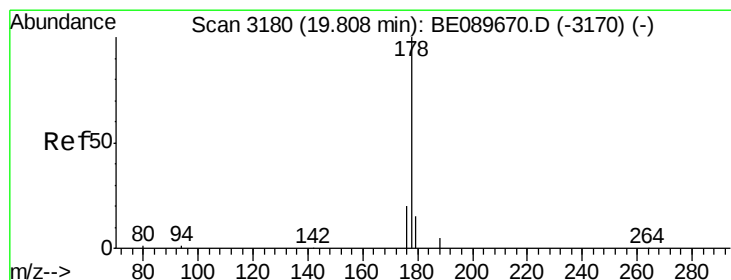
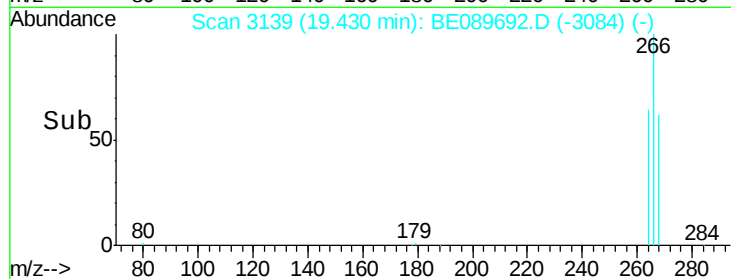
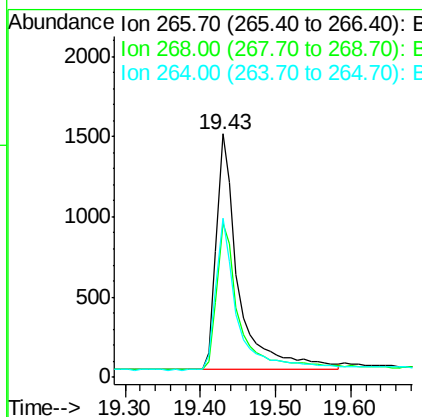
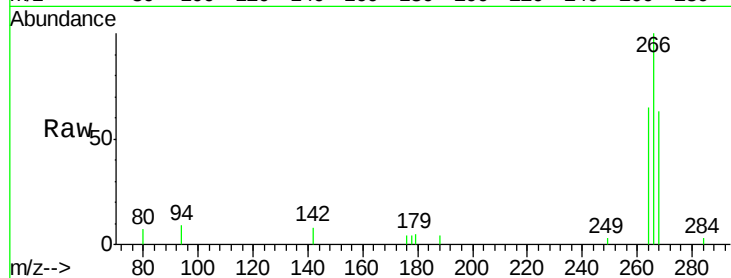




#15
 Pentachlorophenol
 Concen: 3.69 ng
 RT: 19.43 min Scan# 3139
 Delta R.T. -0.01 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

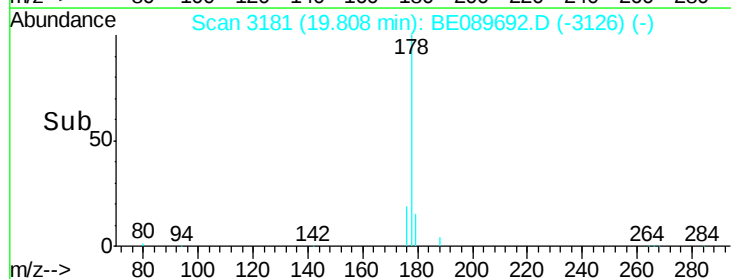
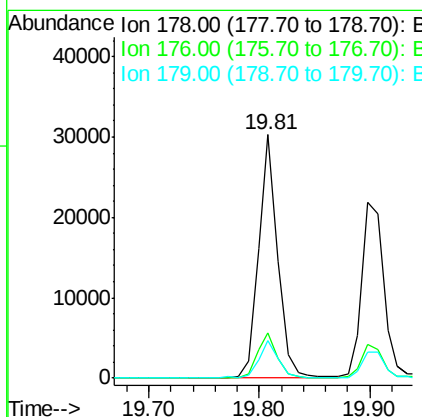
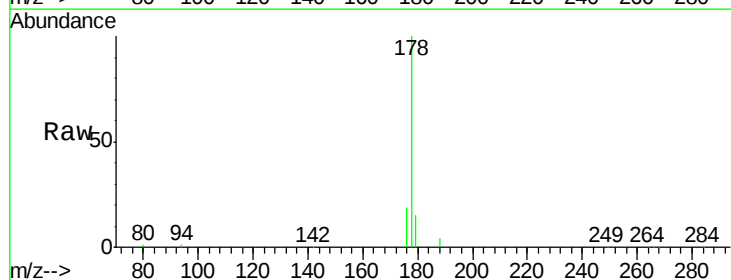
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

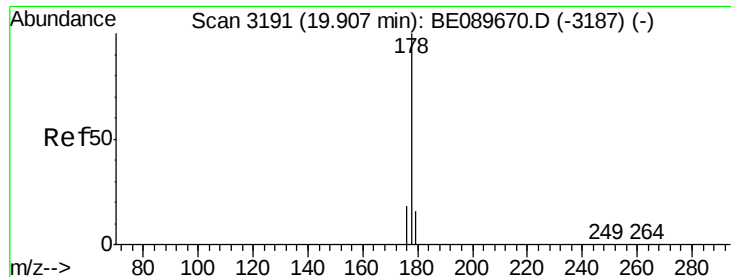
Tgt Ion: 266 Resp: 3031
 Ion Ratio Lower Upper
 266 100
 268 63.1 56.3 84.5
 264 65.3 51.8 77.8



#16
 Phenanthrene
 Concen: 0.90 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

Tgt Ion: 178 Resp: 36429
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.3 22.9
 179 15.6 12.5 18.7

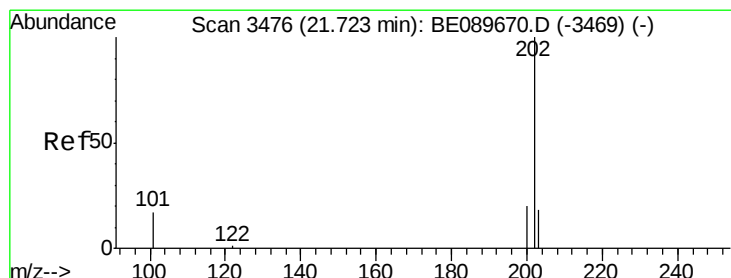
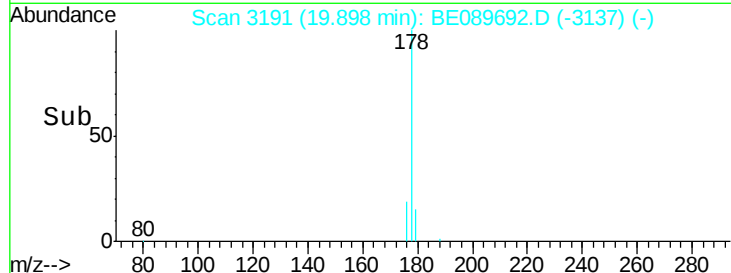
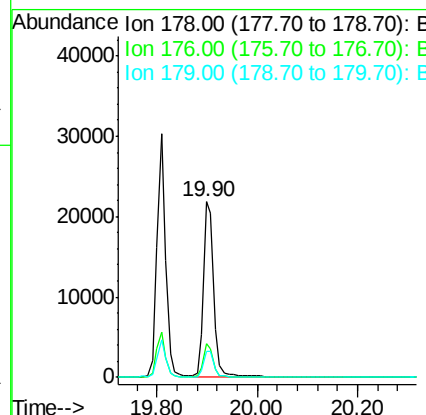
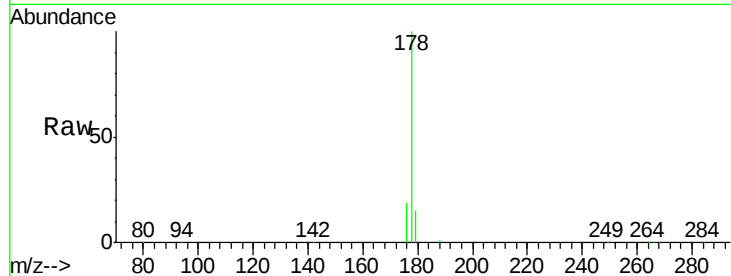




#17
 Anthracene
 Concen: 0.90 ng
 RT: 19.90 min Scan# 3191
 Delta R.T. -0.01 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

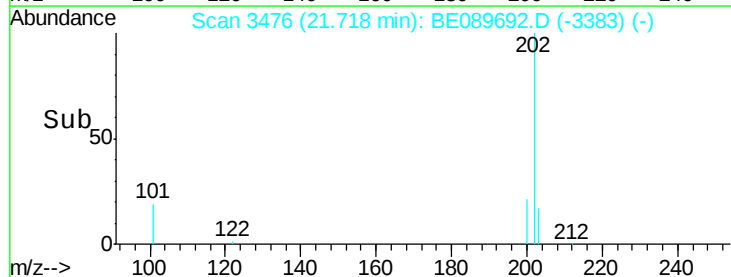
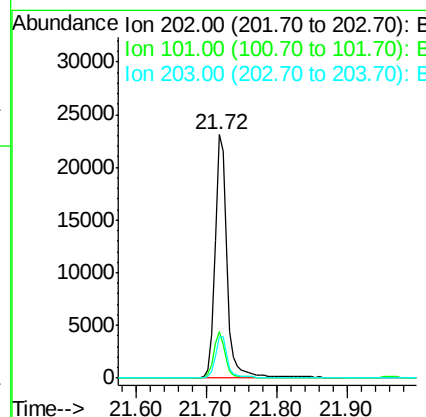
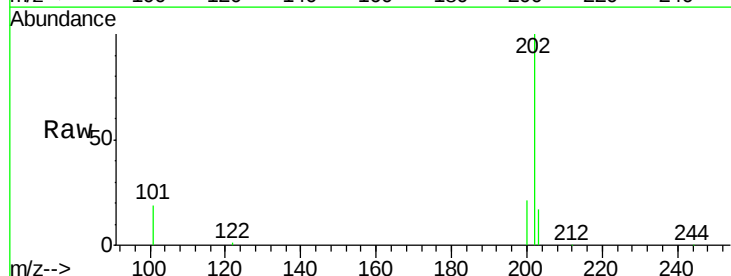
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

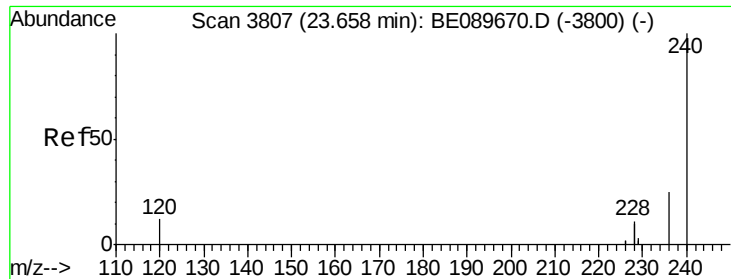
Tgt Ion:178 Resp: 31006
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.8 22.2
 179 14.9 12.2 18.2



#18
 Fluoranthene
 Concen: 0.80 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. -0.01 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

Tgt Ion:202 Resp: 26957
 Ion Ratio Lower Upper
 202 100
 101 18.0 14.9 22.3
 203 17.2 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3807

Delta R.T. -0.01 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

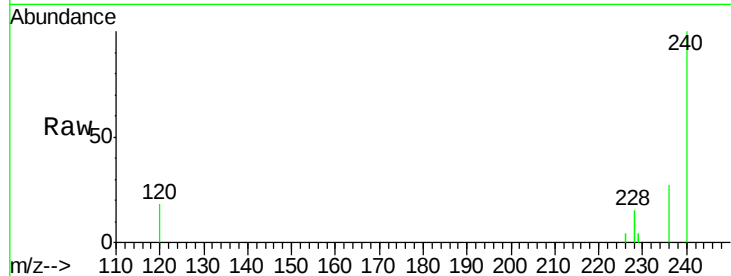
Tgt Ion:240 Resp: 103991

Ion Ratio Lower Upper

240 100

120 18.0 9.4 14.0#

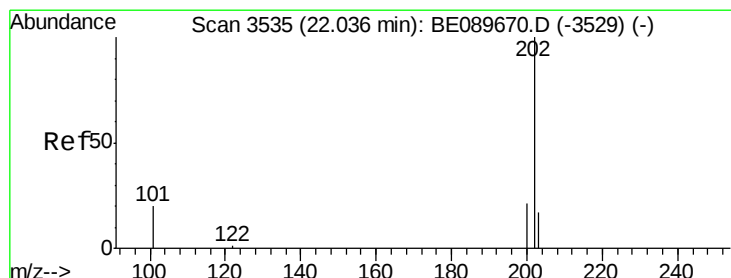
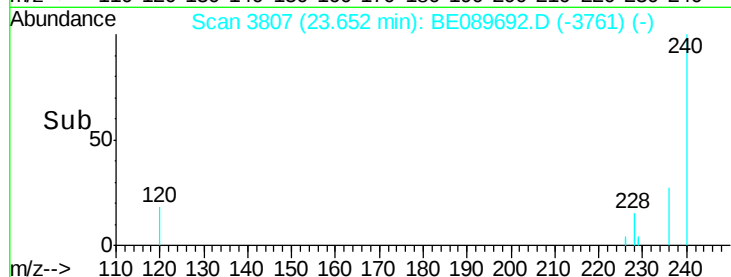
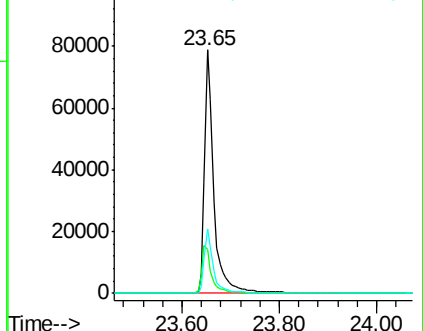
236 26.6 19.9 29.9



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



#20

Pyrene

Concen: 1.17 ng

RT: 22.04 min Scan# 3536

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

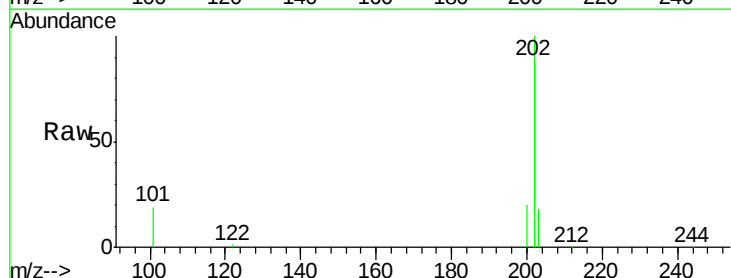
Tgt Ion:202 Resp: 29380

Ion Ratio Lower Upper

202 100

200 20.6 16.4 24.6

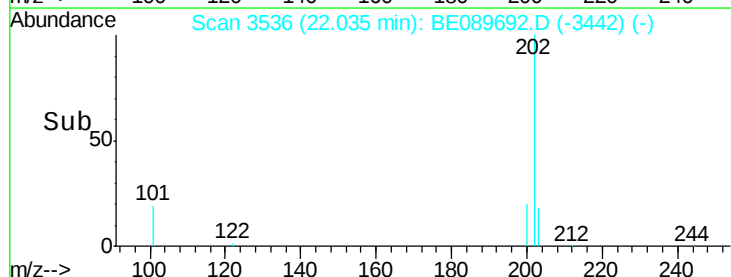
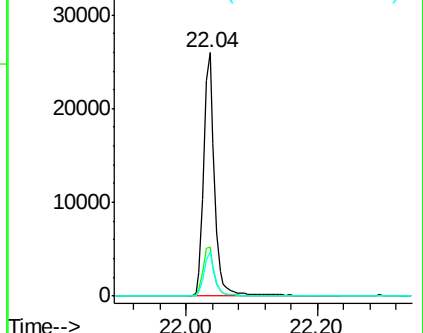
203 17.5 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 1.18 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

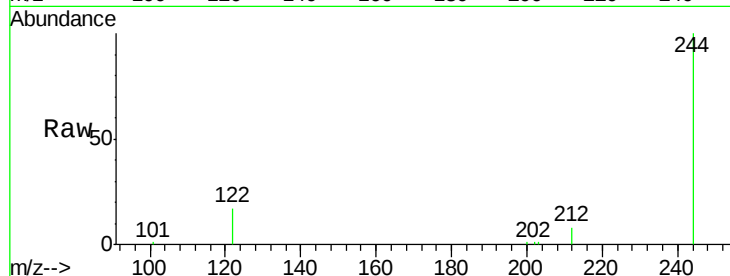
Tgt Ion:244 Resp: 14383

Ion Ratio Lower Upper

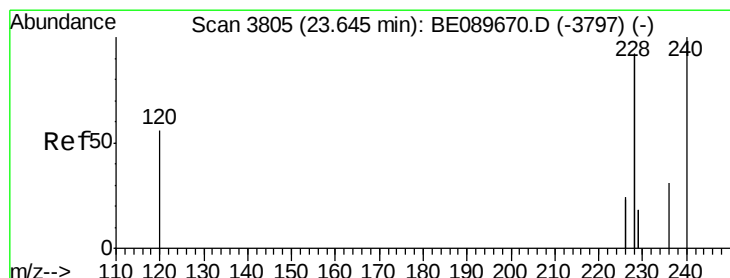
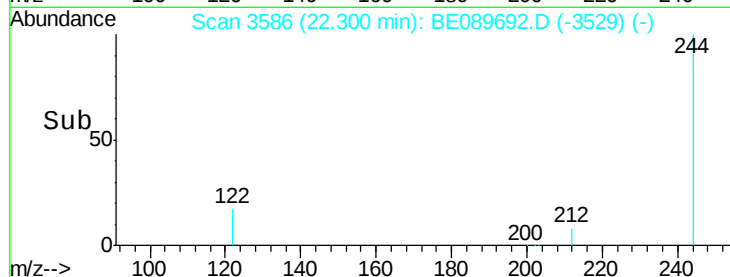
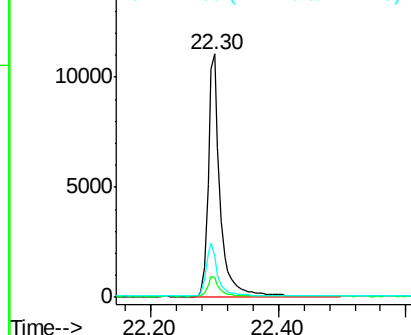
244 100

212 8.1 7.0 10.6

122 17.1 15.4 23.0



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



#22

Benzo(a)anthracene

Concen: 0.87 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

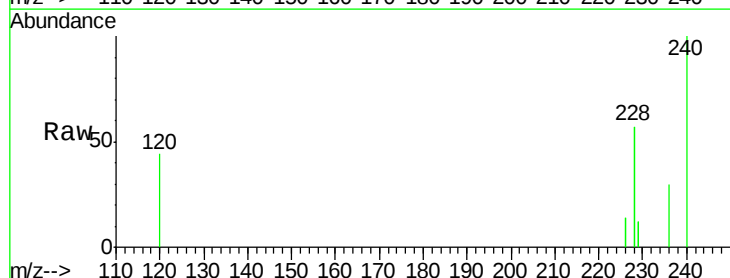
Tgt Ion:228 Resp: 59354

Ion Ratio Lower Upper

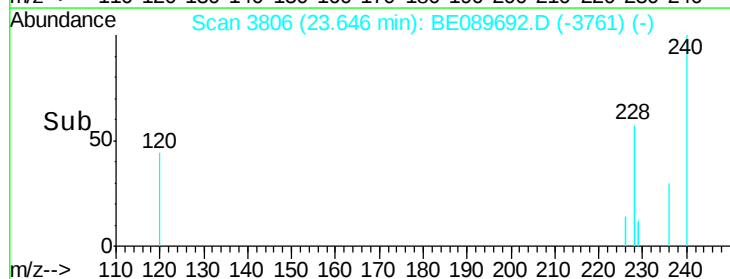
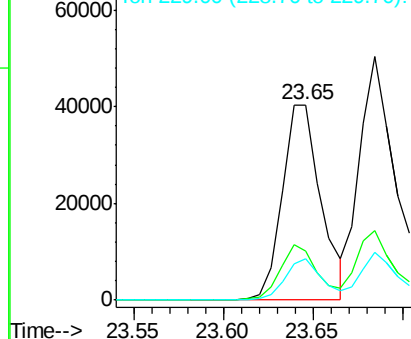
228 100

226 25.1 20.6 31.0

229 21.0 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





#23

Chrysene

Concen: 0.92 ng

RT: 23.68 min Scan# 3812

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

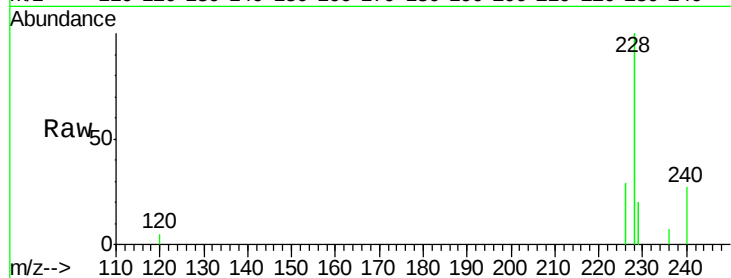
Tgt Ion:228 Resp: 86728

Ion Ratio Lower Upper

228 100

226 28.7 23.6 35.4

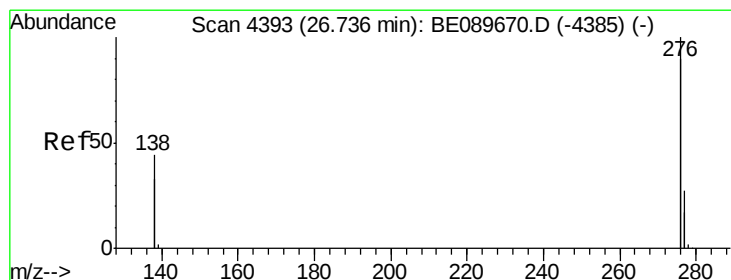
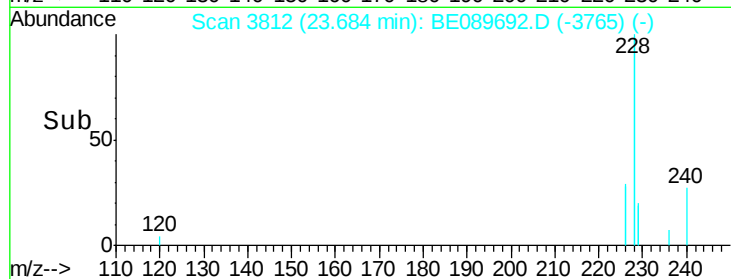
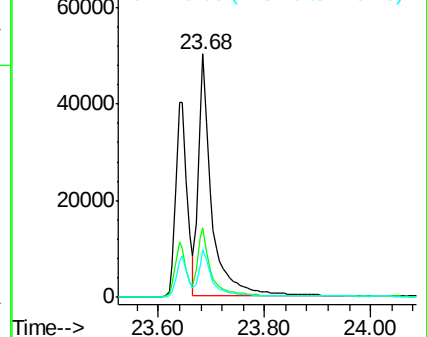
229 19.5 15.3 22.9



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.08 ng

RT: 26.74 min Scan# 4394

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

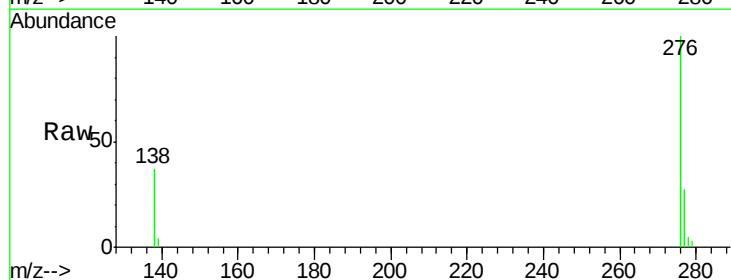
Tgt Ion:276 Resp: 30235

Ion Ratio Lower Upper

276 100

138 41.8 0.0 0.0#

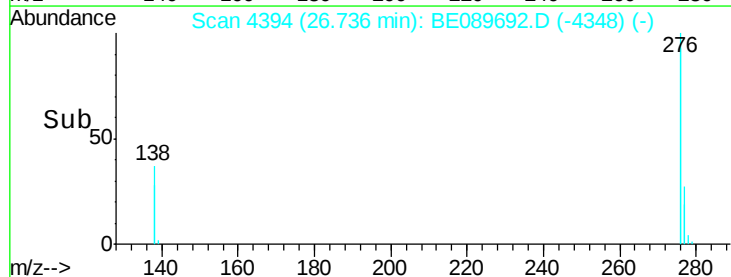
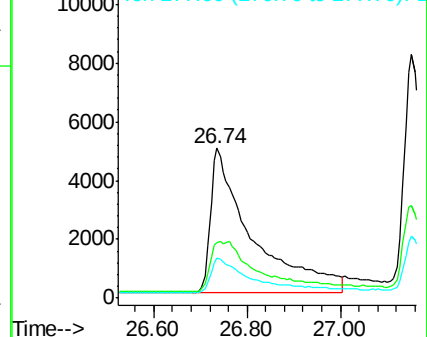
277 24.8 5.2 7.8#

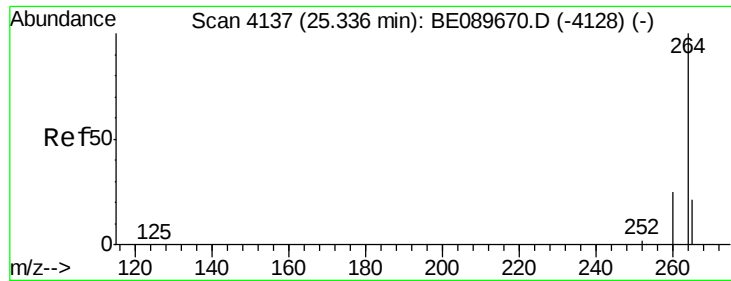


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

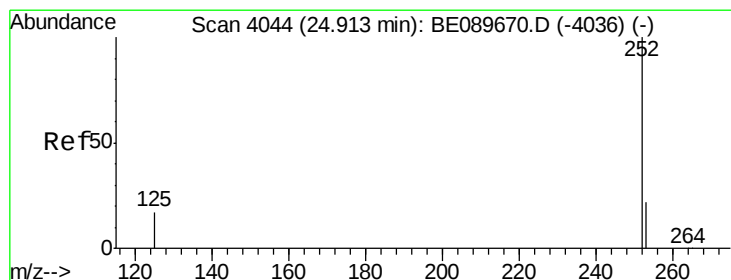
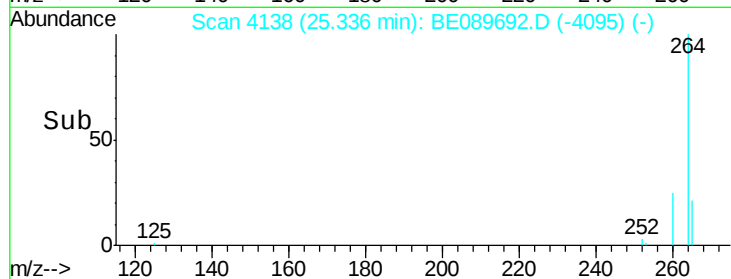
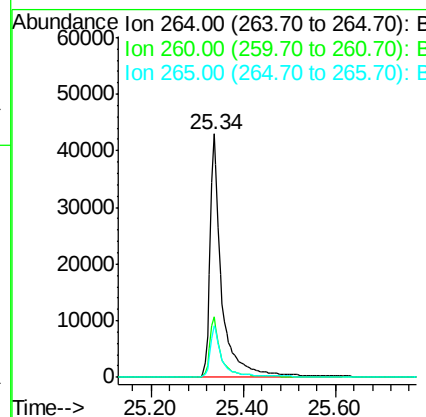
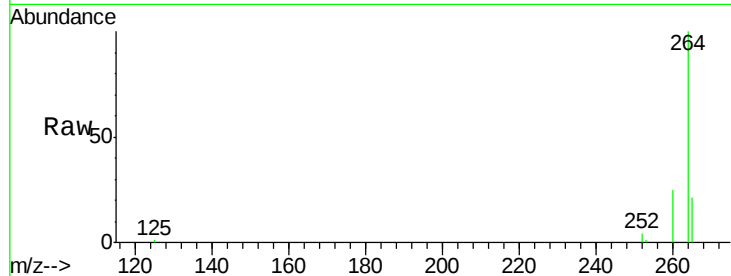




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. -0.00 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

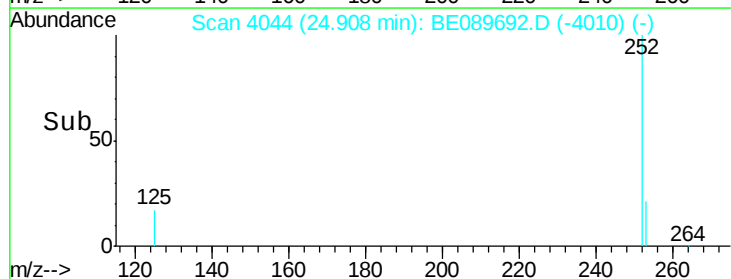
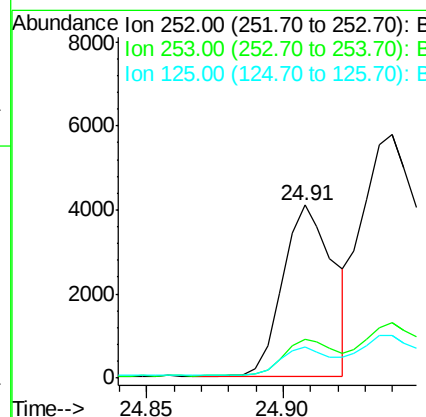
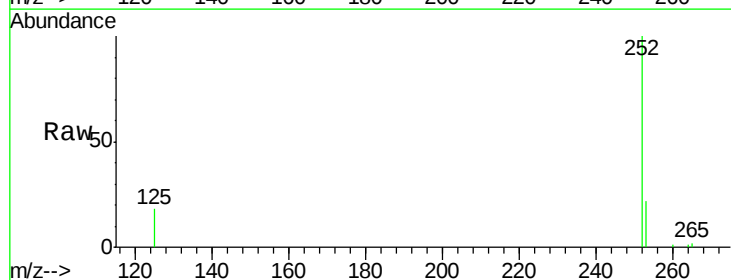
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tgt Ion: 264 Resp: 75387
 Ion Ratio Lower Upper
 264 100
 260 24.7 20.2 30.4
 265 21.4 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 1.09 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. -0.00 min
 Lab File: BE089692.D
 Acq: 26 Feb 2015 12:50

Tgt Ion: 252 Resp: 5259
 Ion Ratio Lower Upper
 252 100
 253 22.5 18.6 27.8
 125 18.2 15.0 22.6





#27

Benzo(k)fluoranthene

Concen: 0.90 ng

RT: 24.94 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

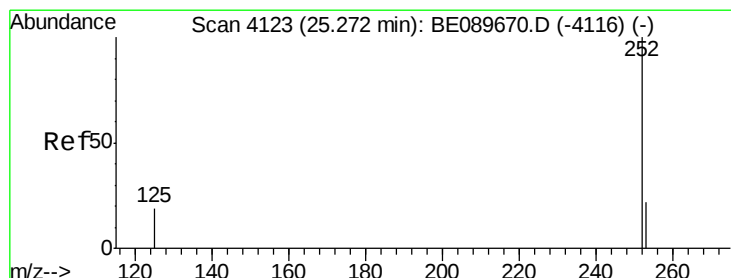
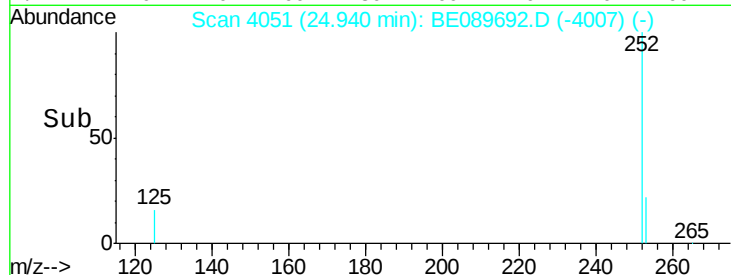
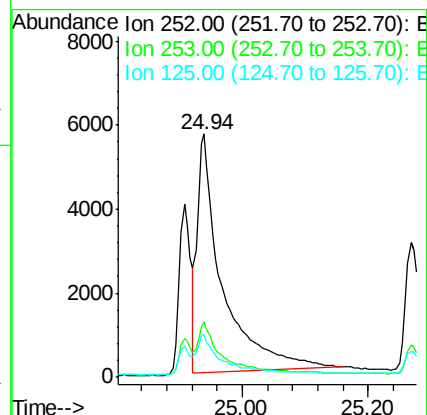
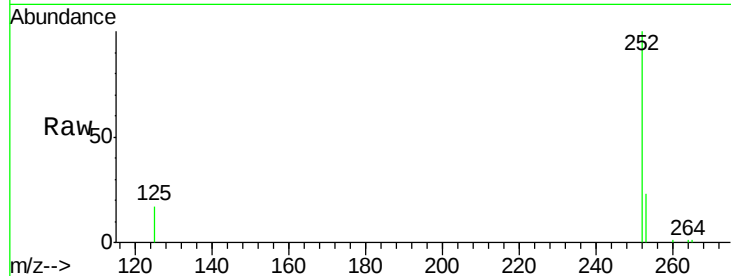
Tgt Ion:252 Resp: 15756

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

125 17.4 14.3 21.5



#28

Benzo(a)pyrene

Concen: 1.04 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

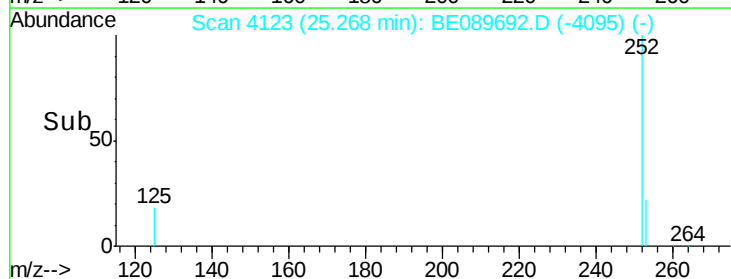
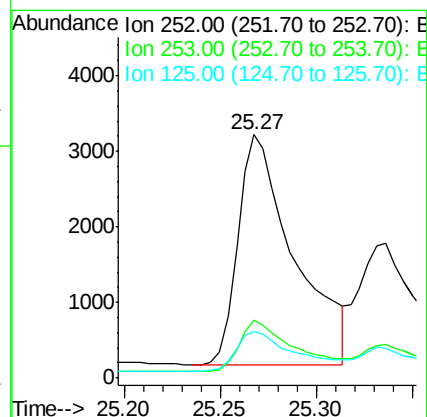
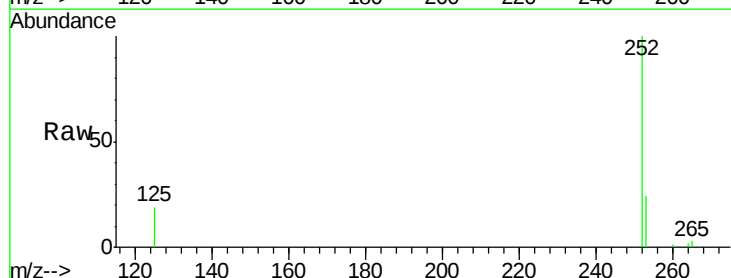
Tgt Ion:252 Resp: 6142

Ion Ratio Lower Upper

252 100

253 23.8 18.8 28.2

125 19.2 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 1.18 ng

RT: 26.77 min Scan# 4399

Delta R.T. 0.00 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

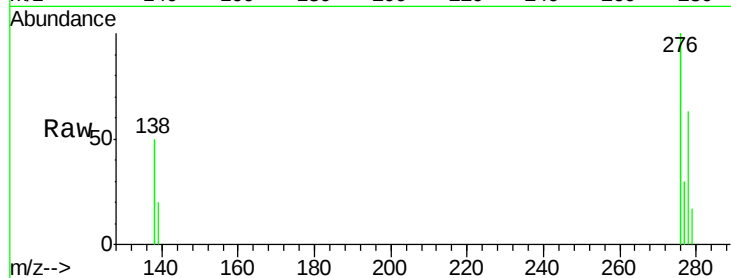
Tgt Ion:278 Resp: 5592

Ion Ratio Lower Upper

278 100

139 31.3 30.4 45.6

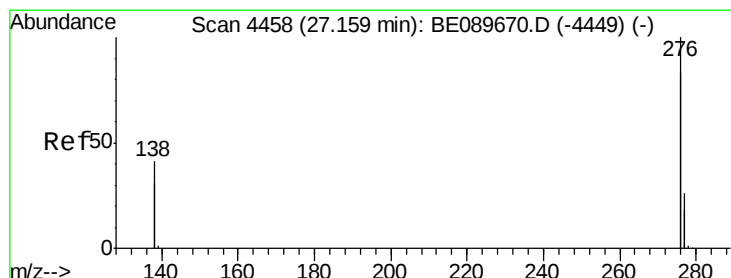
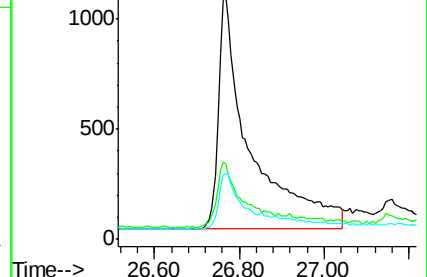
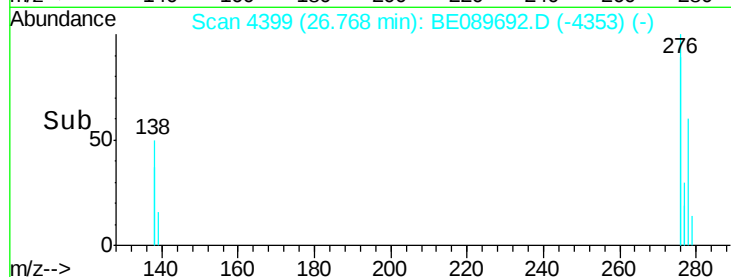
279 26.9 22.0 33.0



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



#30

Benzo(g,h,i)perylene

Concen: 1.05 ng

RT: 27.15 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089692.D

Acq: 26 Feb 2015 12:50

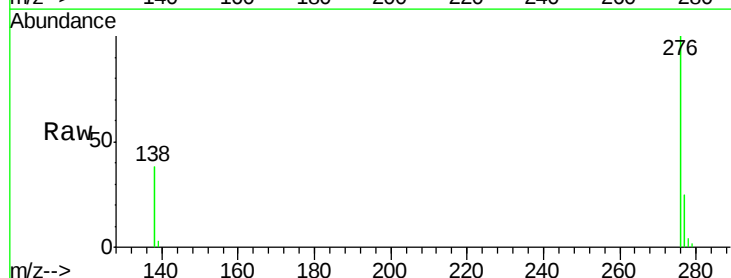
Tgt Ion:276 Resp: 34867

Ion Ratio Lower Upper

276 100

277 25.4 21.0 31.6

138 38.2 33.0 49.4



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

