

Data Path : Z:\HPCHEM1\BNA_E\Data\BE012915\
 Data File : BE089431.D
 Acq On : 30 Jan 2015 3:36
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Quant Time: Jan 30 07:52:14 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE012915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 30 03:48:17 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	161714	5.00	ng	0.00
7) Naphthalene-d8	12.50	136	599686	5.00	ng	0.00
13) Acenaphthene-d10	16.68	164	251417	5.00	ng	0.00
17) Phenanthrene-d10	19.99	188	545560	5.00	ng	0.00
20) Chrysene-d12	23.84	240	698465	5.00	ng	0.00
27) Perylene-d12	25.55	264	744049	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.76	112	56185	0.92	ng	0.02
4) Phenol-d6	8.87	99	68001	0.94	ng	0.03
8) Nitrobenzene-d5	10.85	82	44805	0.92	ng	0.00
14) 2,4,6-Tribromophenol	18.59	330	7486	1.08	ng	0.01
15) 2-Fluorobiphenyl	15.13	172	65141	0.93	ng	0.00
22) Terphenyl-d14	22.48	244	92882	1.15	ng	0.00

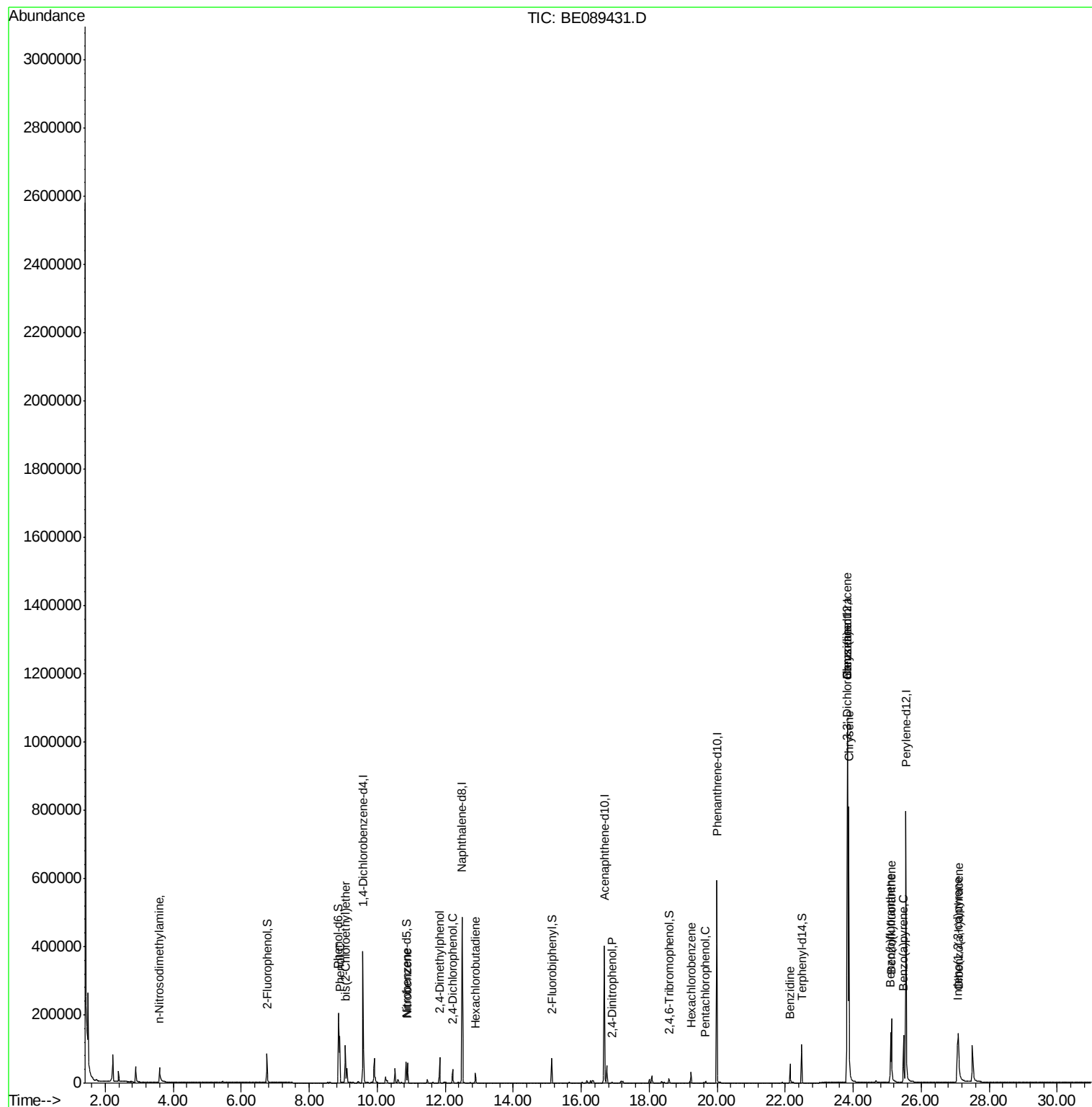
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.58	42	31391	0.99	ng	# 66
5) Phenol	8.90	94	73902	0.93	ng	93
6) bis(2-Chloroethyl)ether	9.06	93	51921	0.88	ng	# 99
9) Nitrobenzene	10.89	77	52175	0.94	ng	99
10) 2,4-Dimethylphenol	11.84	122	39161	0.99	ng	93
11) 2,4-Dichlorophenol	12.22	162	27847	1.01	ng	90
12) Hexachlorobutadiene	12.89	225	17212	0.93	ng	99
16) 2,4-Dinitrophenol	16.91	184	1618	0.88	ng	# 79
18) Hexachlorobenzene	19.24	284	25240	0.94	ng	93
19) Pentachlorophenol	19.66	266	3437	0.69	ng	94
21) Benzidine	22.15	184	58064	0.95	ng	99
23) Benzo(a)anthracene	23.83	228	638967	1.20	ng	99
24) 3,3'-Dichlorobenzidine	23.82	252	58623	1.41	ng	# 93
25) Chrysene	23.87	228	660407	0.91	ng	94
26) Indeno(1,2,3-cd)pyrene	27.07	276	197968	1.58	ng	# 100
28) Benzo(b)fluoranthene	25.10	252	144666	1.97	ng	98
29) Benzo(k)fluoranthene	25.13	252	198958	1.03	ng	99
30) Benzo(a)pyrene	25.48	252	148995	1.64	ng	99
31) Dibenzo(a,h)anthracene	27.09	278	166745	1.84	ng	97

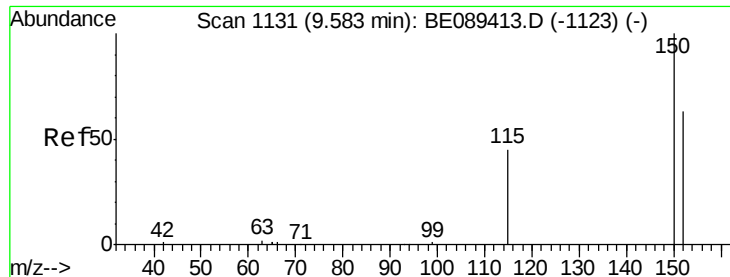
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1131

Delta R.T. -0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

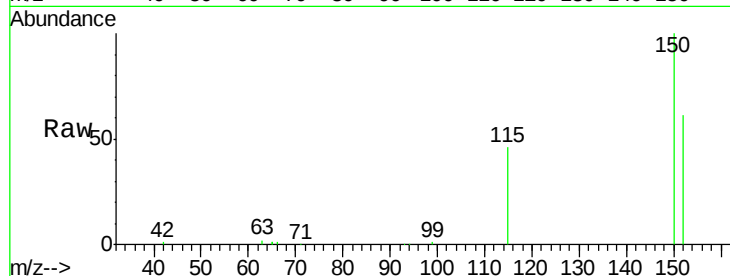
Tgt Ion: 152 Resp: 161714

Ion Ratio Lower Upper

152 100

150 164.4 126.1 189.1

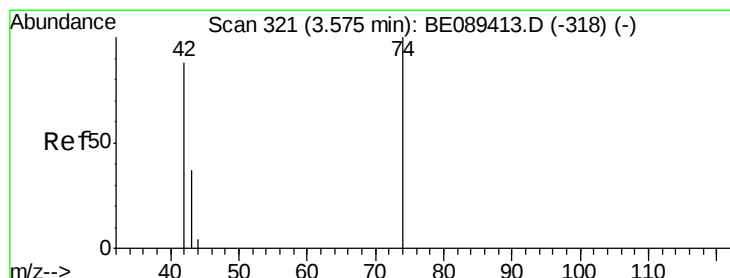
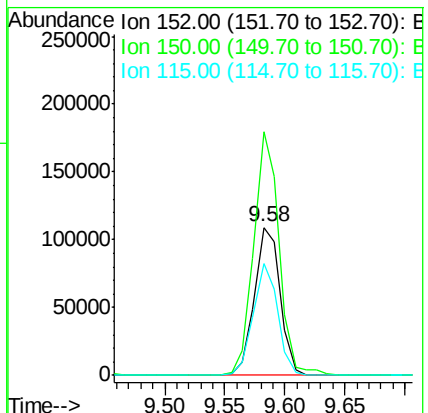
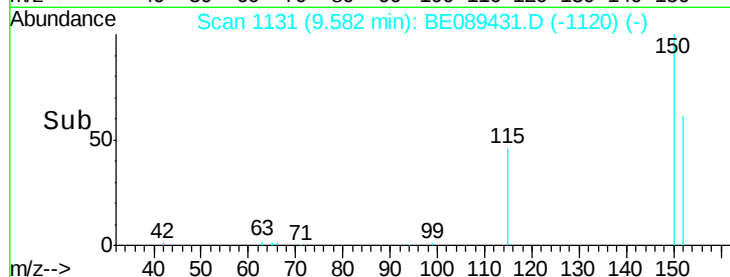
115 75.4 57.1 85.7



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

n-Nitrosodimethylamine

Concen: 0.99 ng

RT: 3.58 min Scan# 322

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

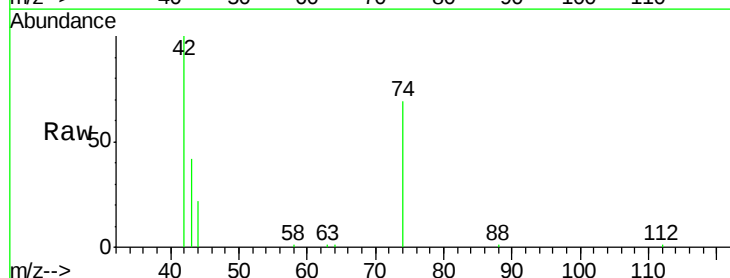
Tgt Ion: 42 Resp: 31391

Ion Ratio Lower Upper

42 100

74 69.1 90.2 135.2#

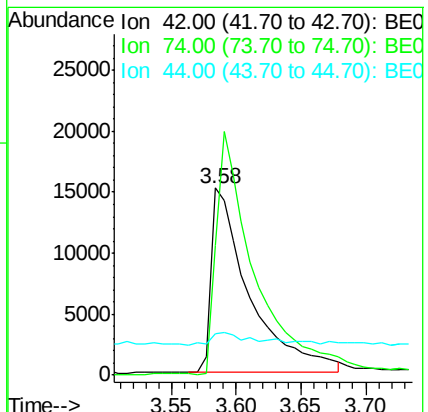
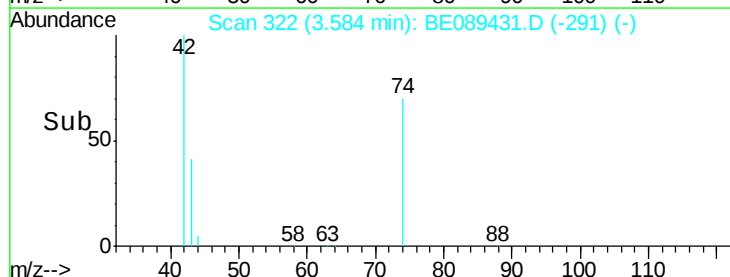
44 21.8 19.4 29.2

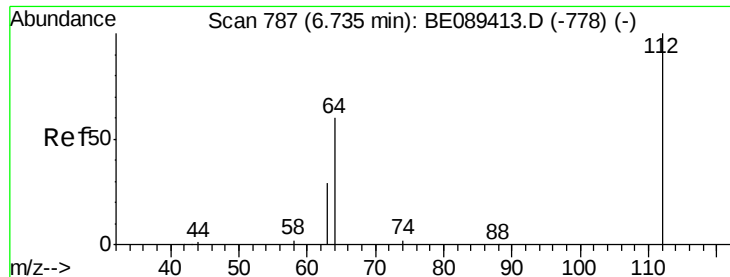


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

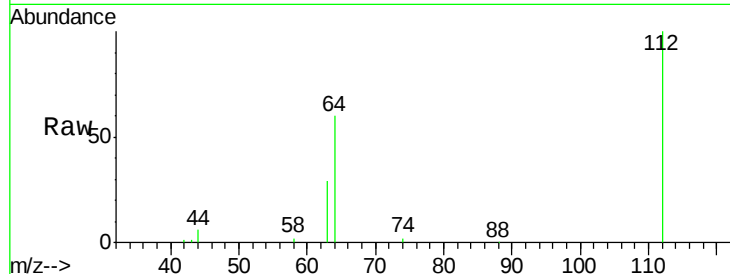




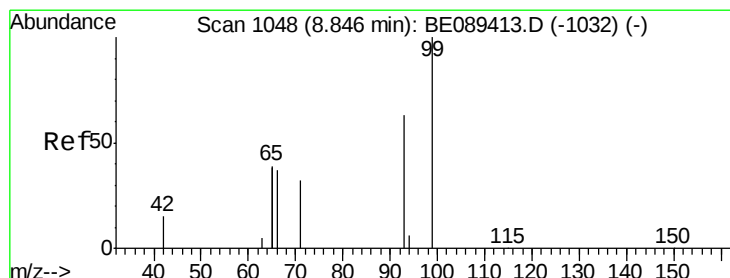
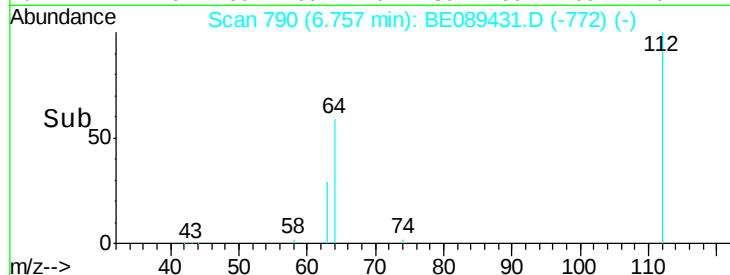
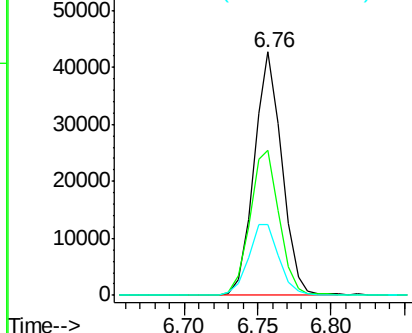
#3
 2-Fluorophenol
 Concen: 0.92 ng
 RT: 6.76 min Scan# 790
 Delta R.T. 0.02 min
 Lab File: BE089431.D
 Acq: 30 Jan 2015 3:36

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Tgt Ion: 112 Resp: 56185
 Ion Ratio Lower Upper
 112 100
 64 59.5 48.2 72.4
 63 29.3 23.5 35.3

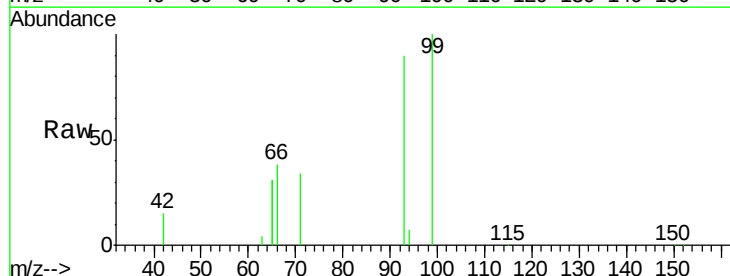


Abundance Ion 112.00 (111.70 to 112.70): BE0
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0

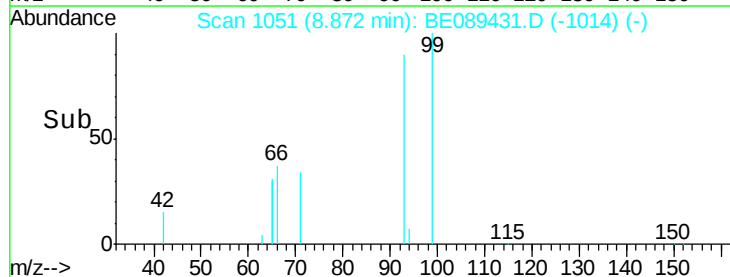
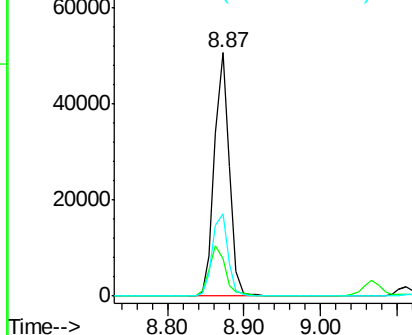


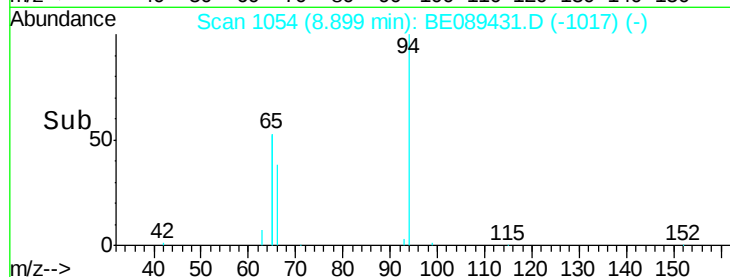
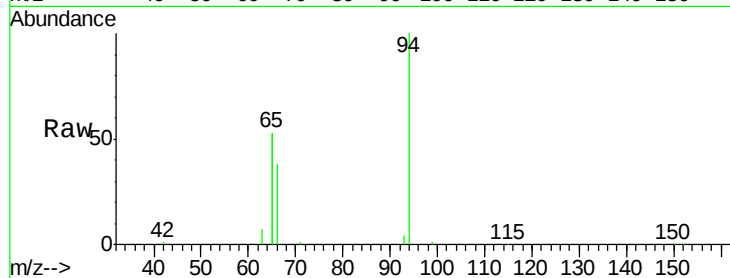
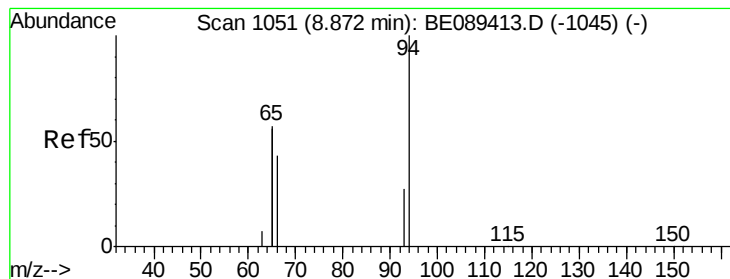
#4
 Phenol-d6
 Concen: 0.94 ng
 RT: 8.87 min Scan# 1051
 Delta R.T. 0.03 min
 Lab File: BE089431.D
 Acq: 30 Jan 2015 3:36

Tgt Ion: 99 Resp: 68001
 Ion Ratio Lower Upper
 99 100
 42 15.4 11.9 17.9
 71 33.8 25.8 38.6



Abundance Ion 99.00 (98.70 to 99.70): BE0
 Ion 42.00 (41.70 to 42.70): BE0
 Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 0.93 ng

RT: 8.90 min Scan# 1054

Delta R.T. 0.03 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

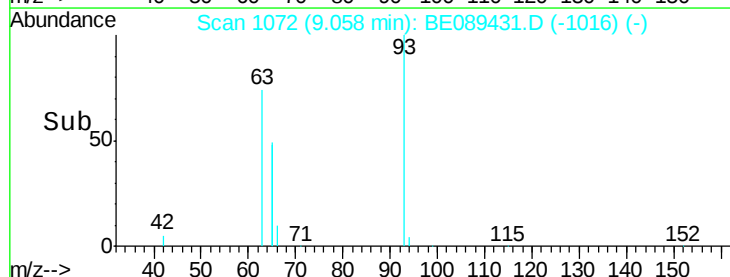
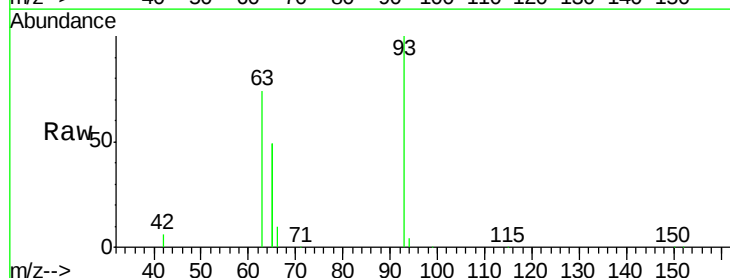
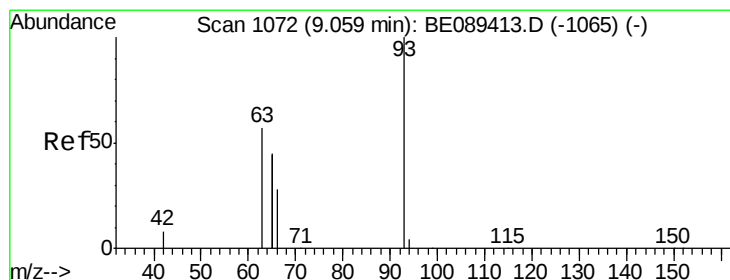
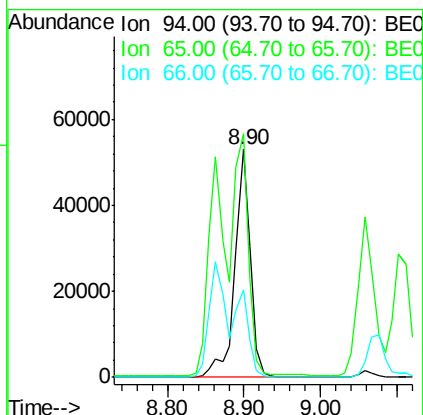
Tgt Ion: 94 Resp: 73902

Ion Ratio Lower Upper

94 100

65 106.8 93.3 133.3

66 38.1 23.6 63.6



#6

bis(2-Chloroethyl)ether

Concen: 0.88 ng

RT: 9.06 min Scan# 1072

Delta R.T. -0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

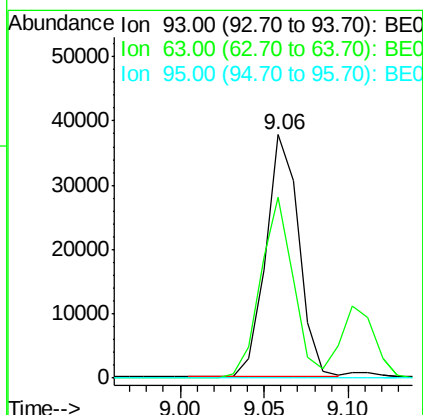
Tgt Ion: 93 Resp: 51921

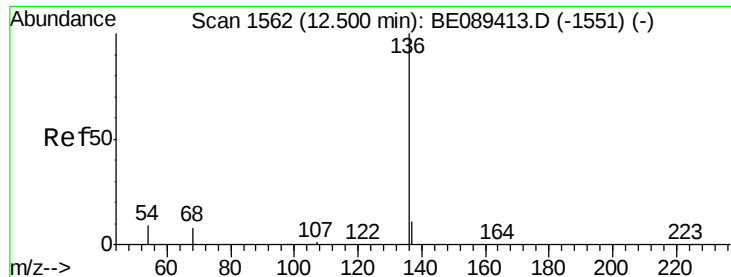
Ion Ratio Lower Upper

93 100

63 73.9 58.6 88.0

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

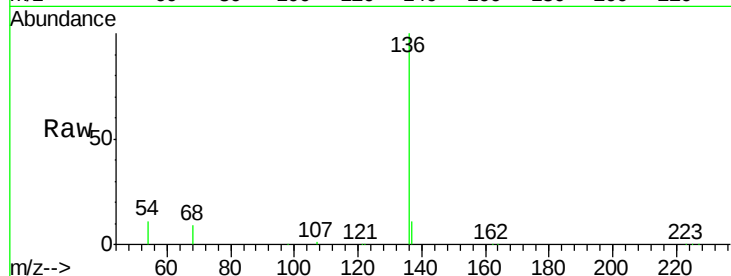
Tgt Ion: 136 Resp: 599686

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

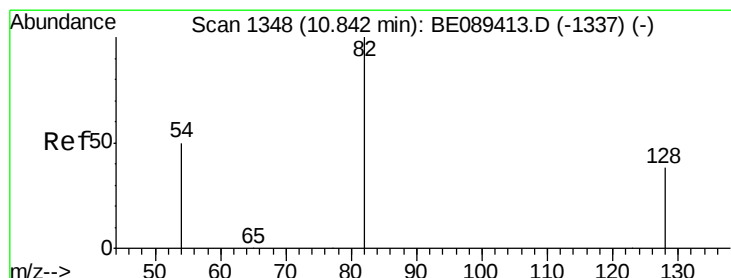
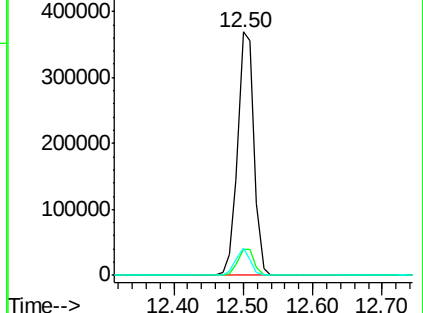
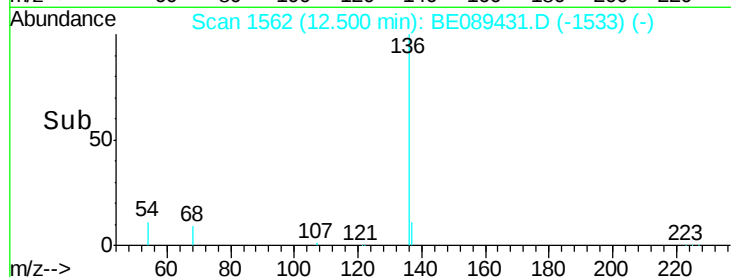
54 11.2 7.5 11.3



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



#8

Nitrobenzene-d5

Concen: 0.92 ng

RT: 10.85 min Scan# 1349

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

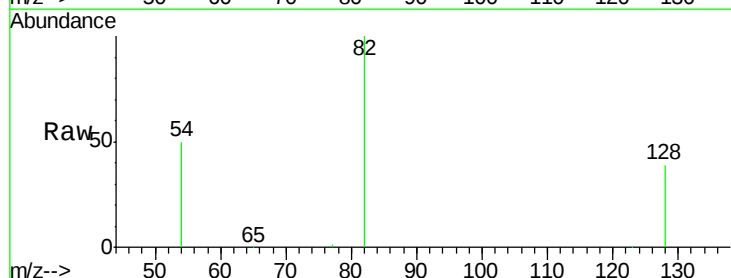
Tgt Ion: 82 Resp: 44805

Ion Ratio Lower Upper

82 100

128 39.2 31.0 46.4

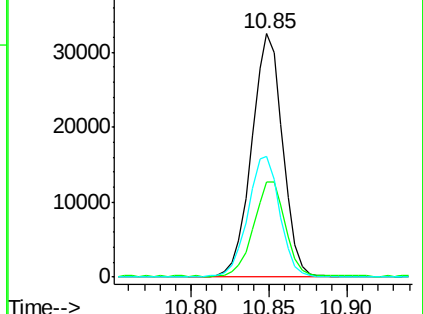
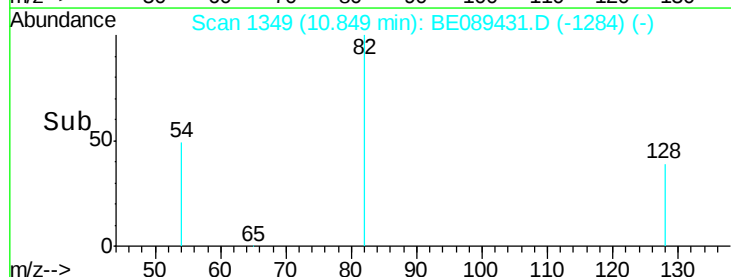
54 49.7 39.8 59.6

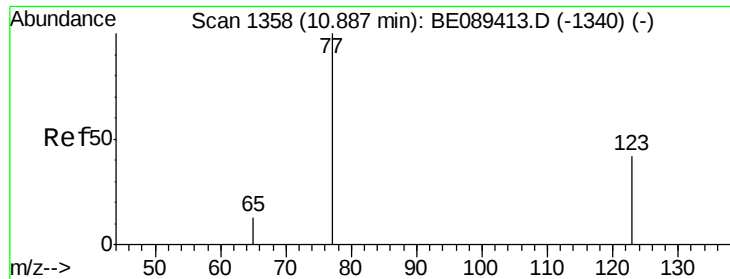


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.94 ng

RT: 10.89 min Scan# 1359

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

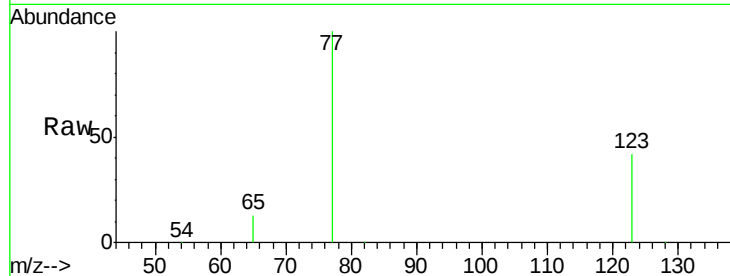
Tgt Ion: 77 Resp: 52175

Ion Ratio Lower Upper

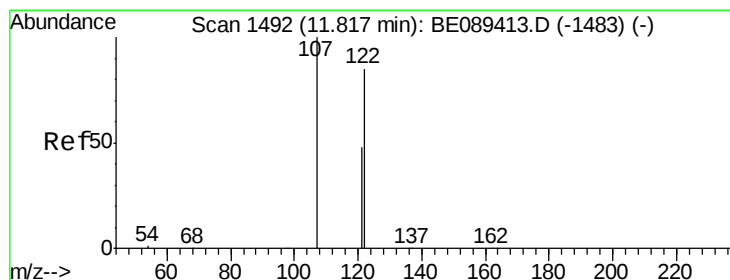
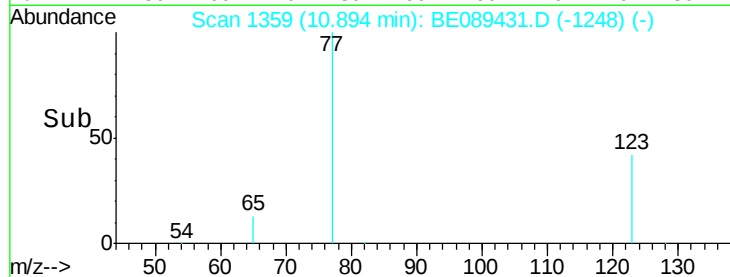
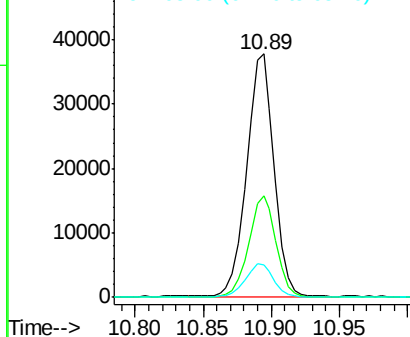
77 100

123 41.6 32.8 49.2

65 13.6 11.0 16.6



Abundance Ion 77.00 (76.70 to 77.70): BE0
Ion 123.00 (122.70 to 123.70): BE0
Ion 65.00 (64.70 to 65.70): BE0



#10

2,4-Dimethylphenol

Concen: 0.99 ng

RT: 11.84 min Scan# 1494

Delta R.T. 0.02 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

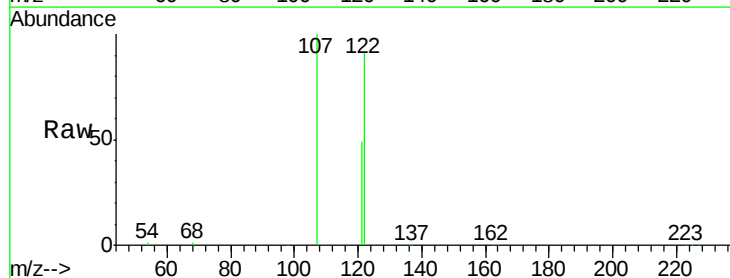
Tgt Ion: 122 Resp: 39161

Ion Ratio Lower Upper

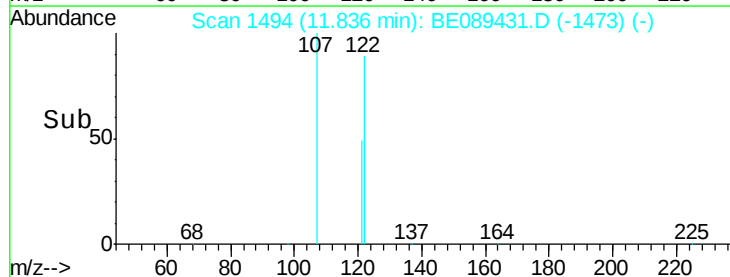
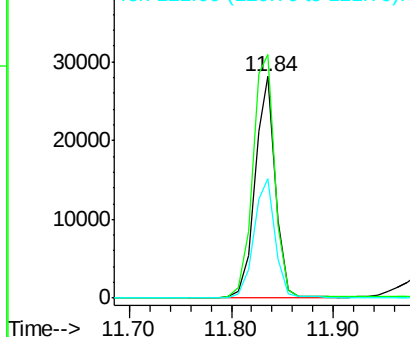
122 100

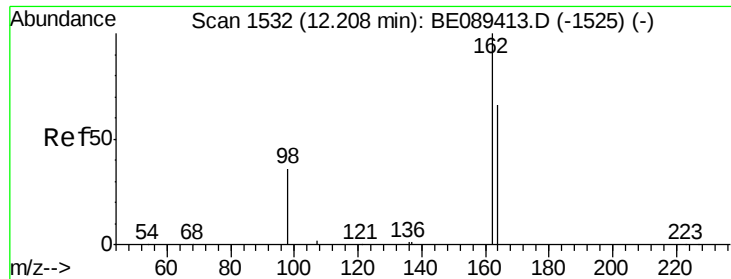
107 109.8 94.6 142.0

121 53.9 45.8 68.6



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E

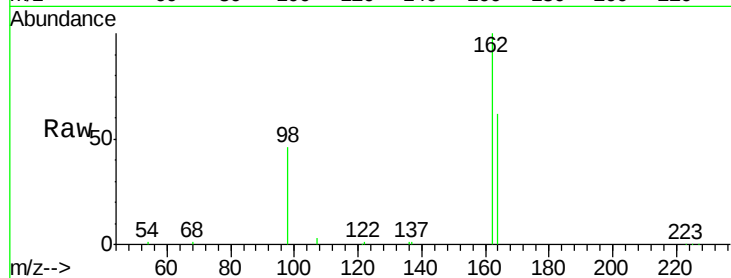




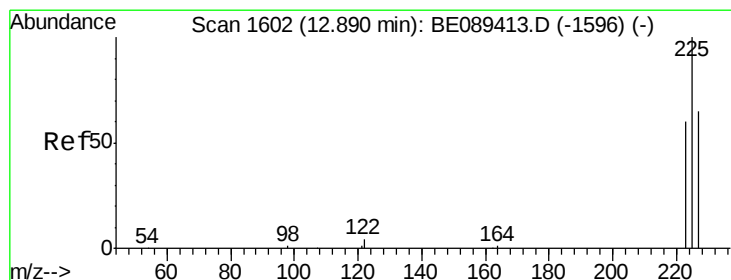
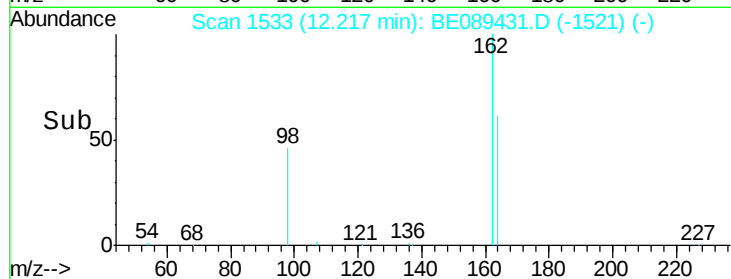
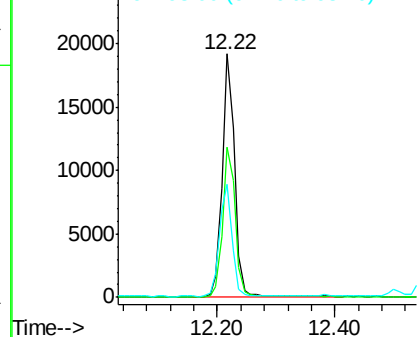
#11
2,4-Dichlorophenol
Concen: 1.01 ng
RT: 12.22 min Scan# 1533
Delta R.T. 0.01 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

Instrument :
BNA_E
LabSampleId :
SSTDCCC001

Tgt Ion:162 Resp: 27847
Ion Ratio Lower Upper
162 100
164 61.6 46.1 86.1
98 46.4 16.2 56.2

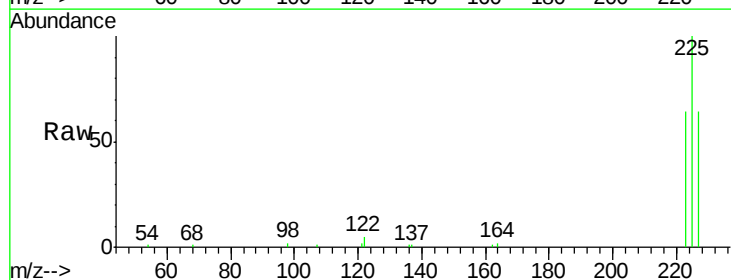


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): E

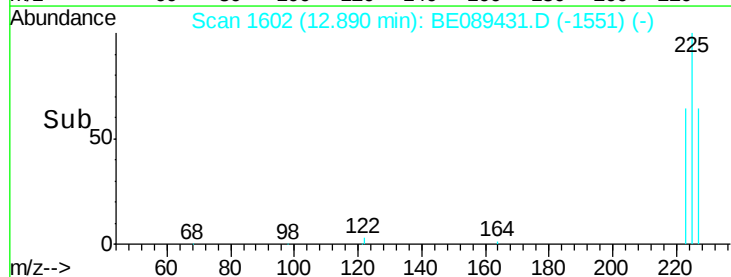
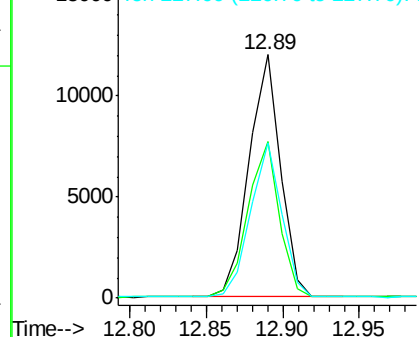


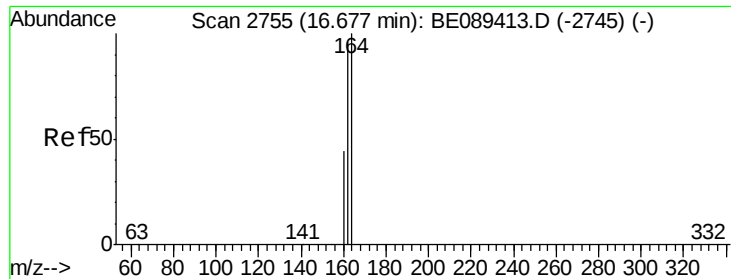
#12
Hexachlorobutadiene
Concen: 0.93 ng
RT: 12.89 min Scan# 1602
Delta R.T. -0.00 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

Tgt Ion:225 Resp: 17212
Ion Ratio Lower Upper
225 100
223 64.1 50.4 75.6
227 63.6 50.2 75.2



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.68 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

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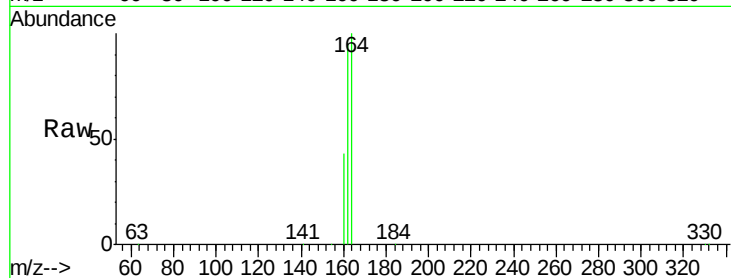
Tgt Ion:164 Resp: 251417

Ion Ratio Lower Upper

164 100

162 95.5 77.0 115.6

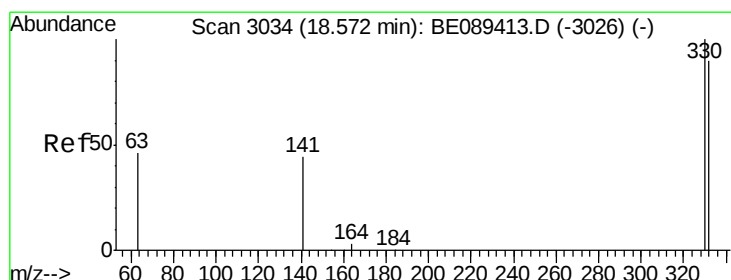
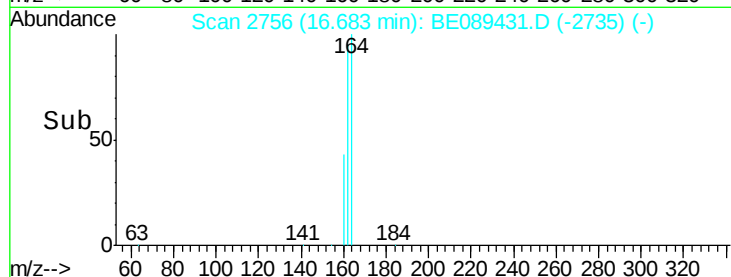
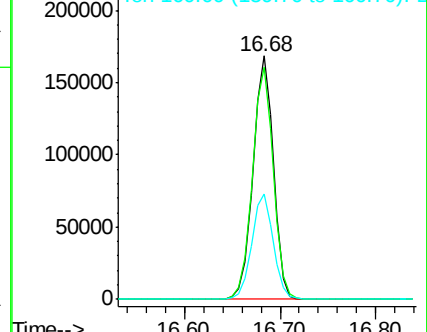
160 43.3 35.0 52.4



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



#14

2,4,6-Tribromophenol

Concen: 1.08 ng

RT: 18.59 min Scan# 3036

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

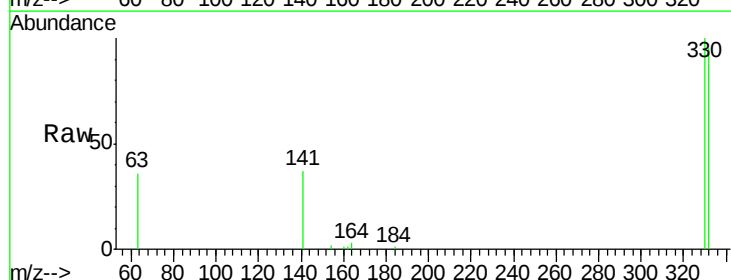
Tgt Ion:330 Resp: 7486

Ion Ratio Lower Upper

330 100

332 97.1 76.0 114.0

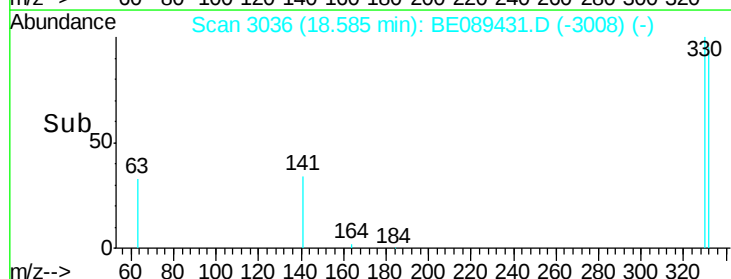
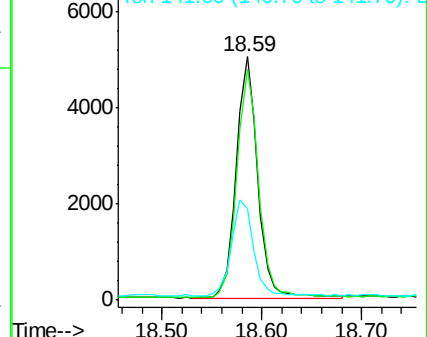
141 40.5 35.6 53.4

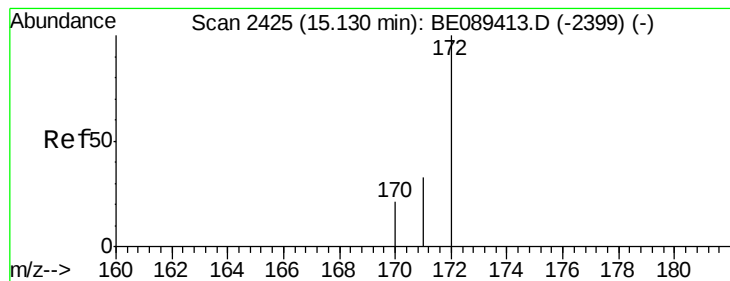


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.93 ng

RT: 15.13 min Scan# 2427

Delta R.T. 0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

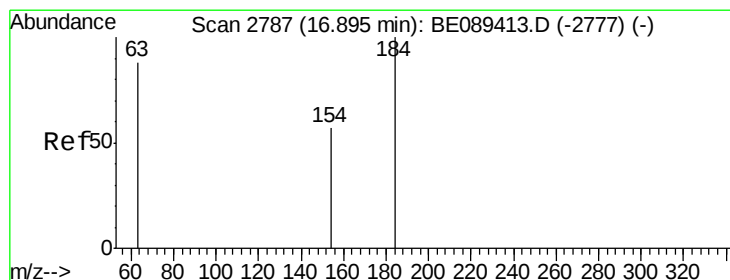
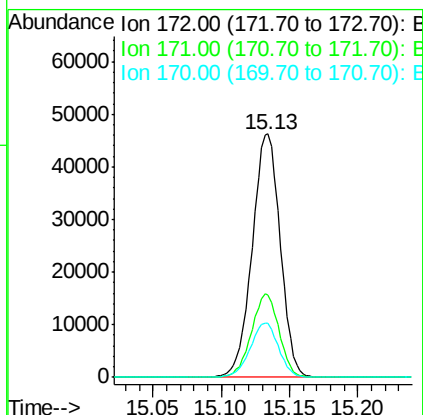
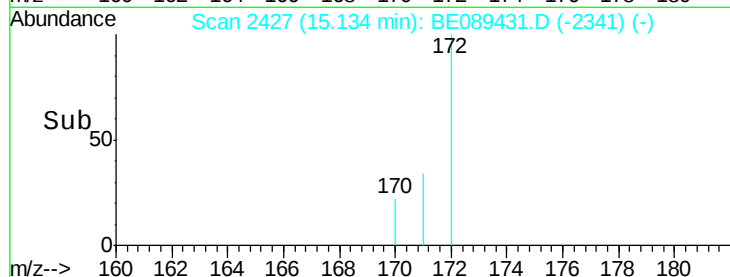
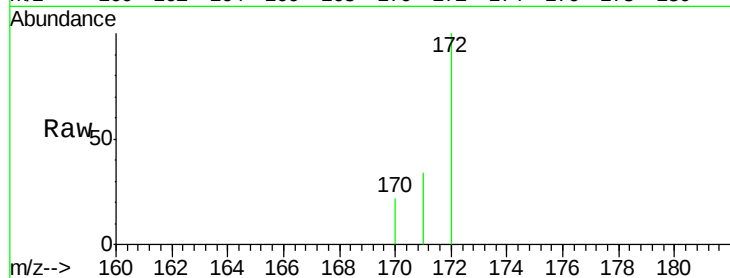
Tgt Ion:172 Resp: 65141

Ion Ratio Lower Upper

172 100

171 33.7 26.6 39.8

170 22.1 17.1 25.7



#16

2,4-Dinitrophenol

Concen: 0.88 ng

RT: 16.91 min Scan# 2789

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

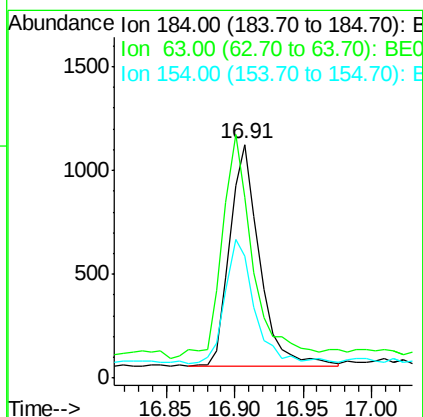
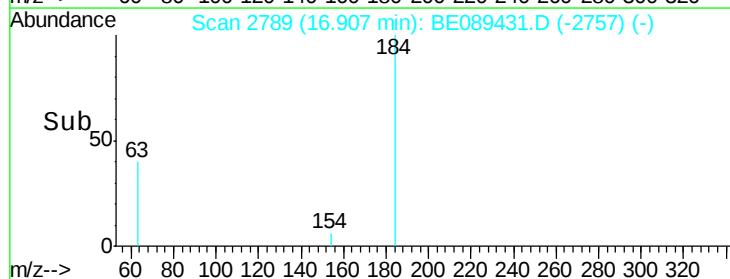
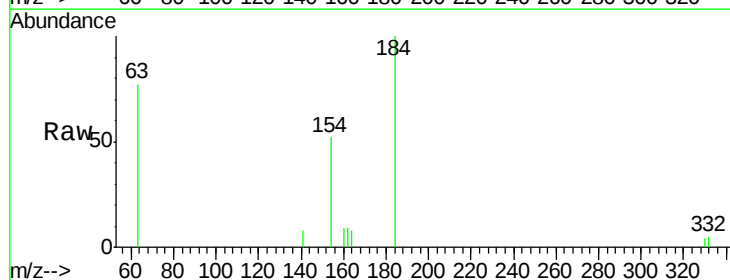
Tgt Ion:184 Resp: 1618

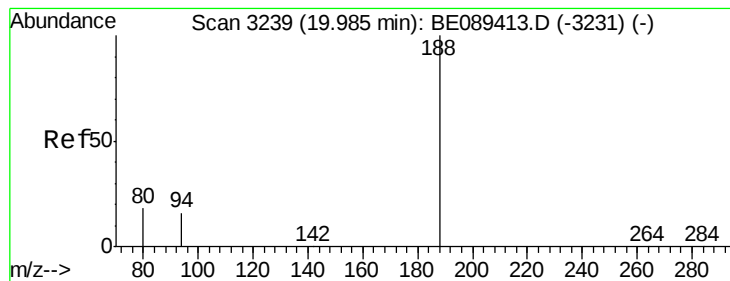
Ion Ratio Lower Upper

184 100

63 77.3 79.0 118.4#

154 52.3 55.8 83.6#





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.99 min Scan# 3240

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

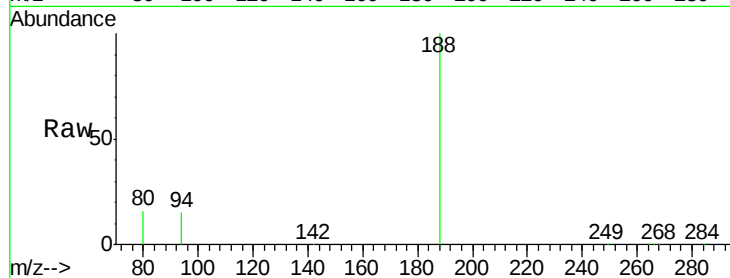
Tgt Ion:188 Resp: 545560

Ion Ratio Lower Upper

188 100

94 14.8 13.0 19.6

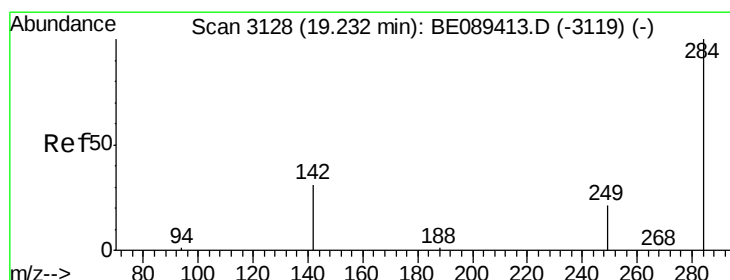
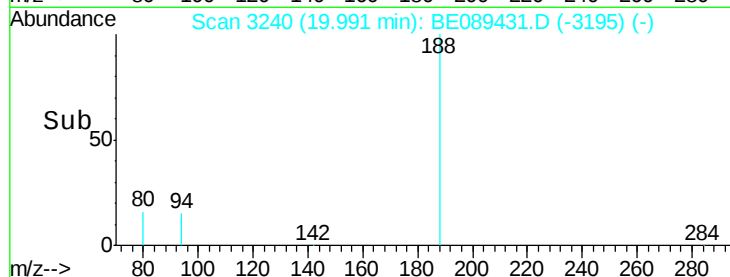
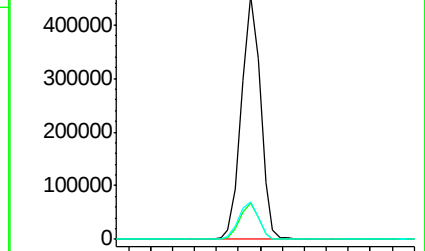
80 15.7 14.2 21.4



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



#18

Hexachlorobenzene

Concen: 0.94 ng

RT: 19.24 min Scan# 3129

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

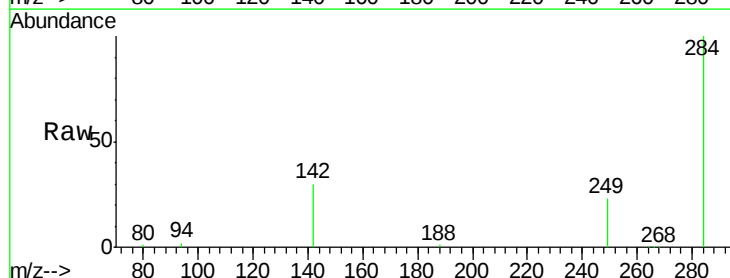
Tgt Ion:284 Resp: 25240

Ion Ratio Lower Upper

284 100

142 29.6 28.3 42.5

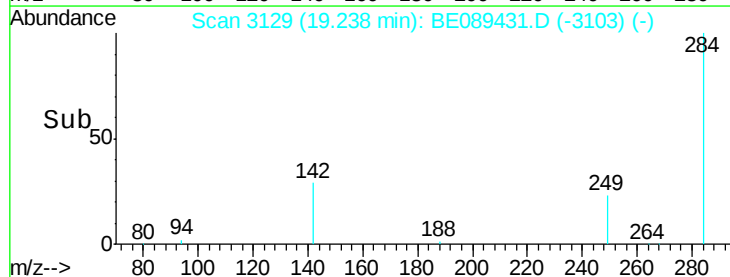
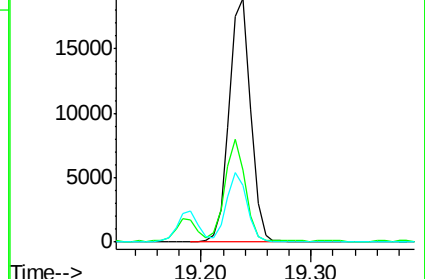
249 23.1 19.9 29.9

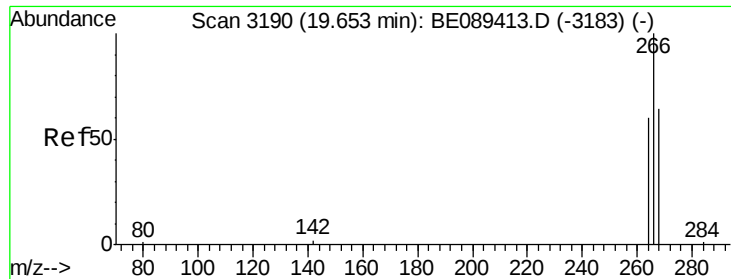


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

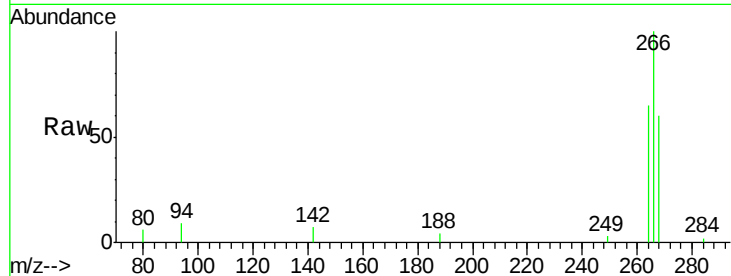




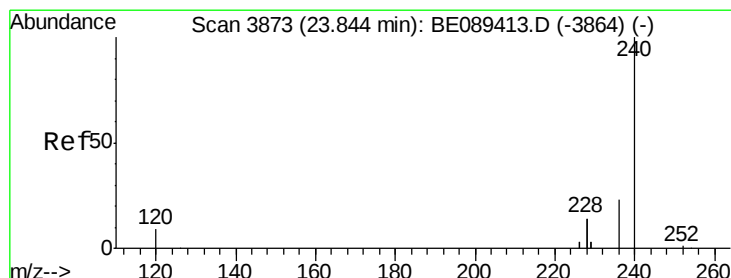
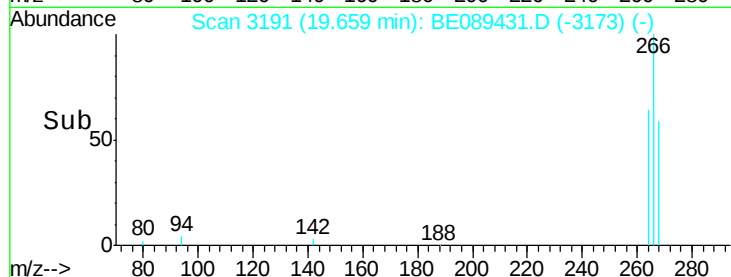
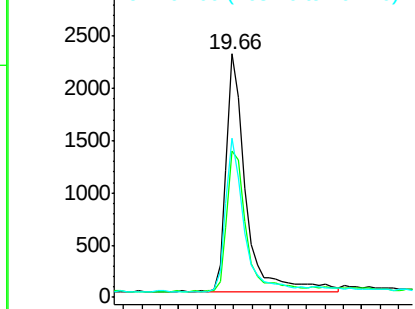
#19
 Pentachlorophenol
 Concen: 0.69 ng
 RT: 19.66 min Scan# 3191
 Delta R.T. 0.01 min
 Lab File: BE089431.D
 Acq: 30 Jan 2015 3:36

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC001

Tgt Ion: 266 Resp: 3437
 Ion Ratio Lower Upper
 266 100
 268 60.0 51.9 77.9
 264 65.3 48.5 72.7

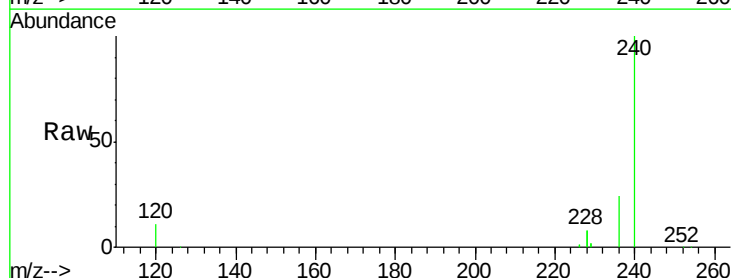


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

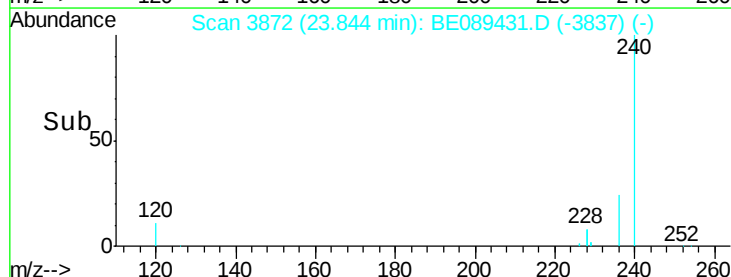
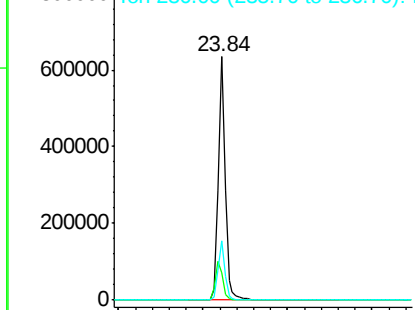


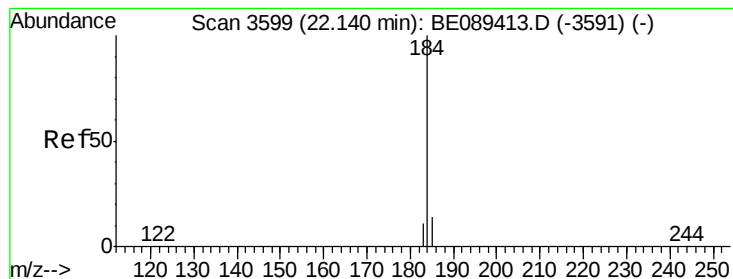
#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 3872
 Delta R.T. -0.00 min
 Lab File: BE089431.D
 Acq: 30 Jan 2015 3:36

Tgt Ion: 240 Resp: 698465
 Ion Ratio Lower Upper
 240 100
 120 11.2 6.9 10.3#
 236 24.1 18.2 27.2



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





#21

Benzidine

Concen: 0.95 ng

RT: 22.15 min Scan# 3600

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

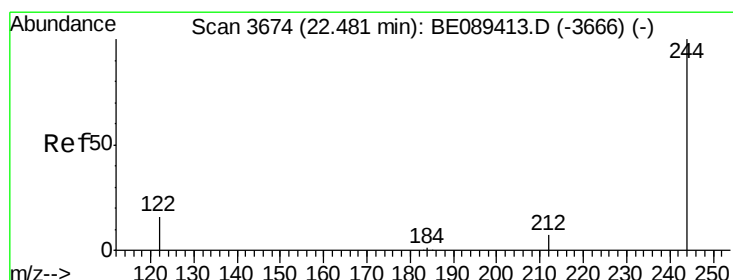
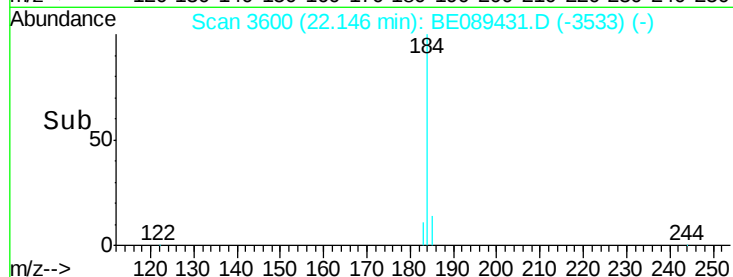
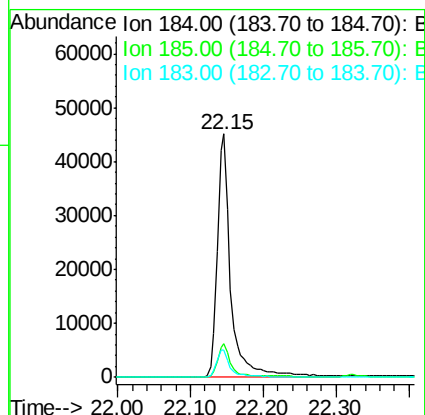
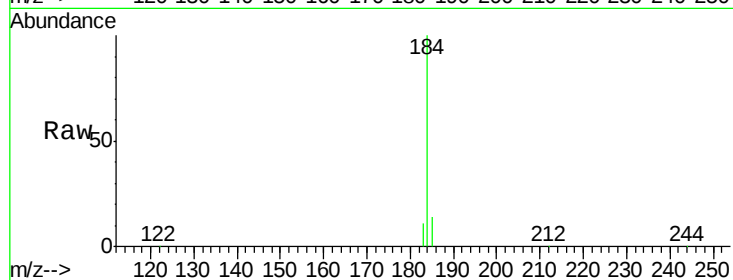
Tgt Ion:184 Resp: 58064

Ion Ratio Lower Upper

184 100

185 14.1 11.0 16.6

183 11.3 8.6 13.0



#22

Terphenyl-d14

Concen: 1.15 ng

RT: 22.48 min Scan# 3674

Delta R.T. 0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

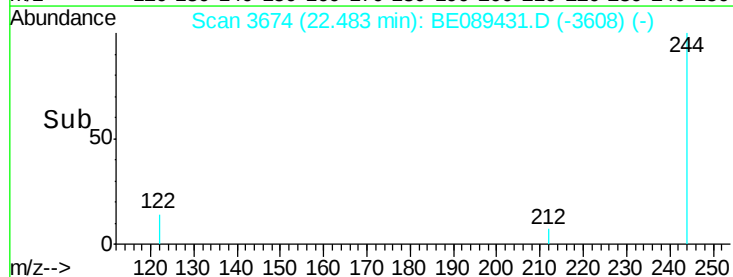
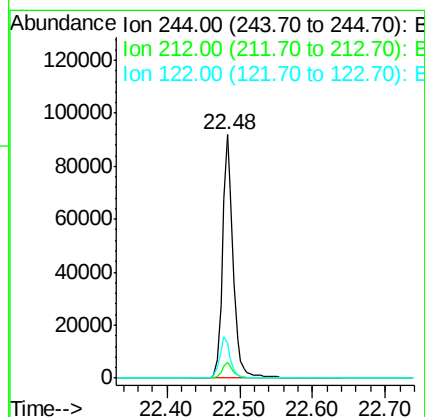
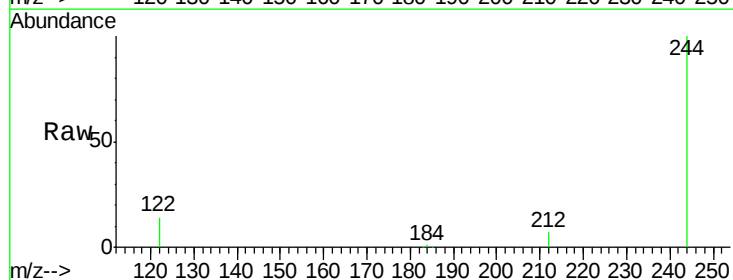
Tgt Ion:244 Resp: 92882

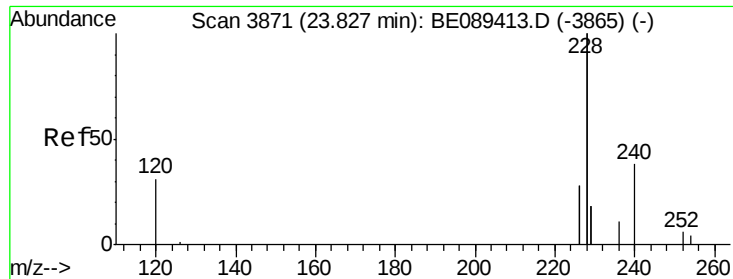
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 14.3 13.2 19.8

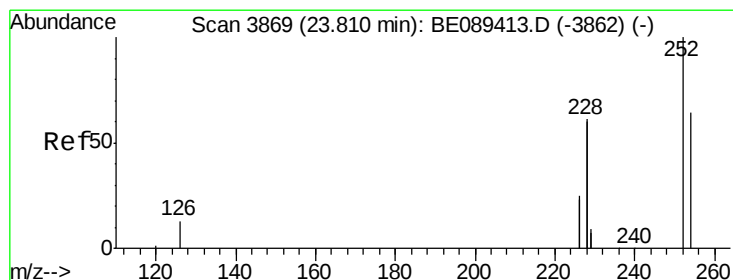
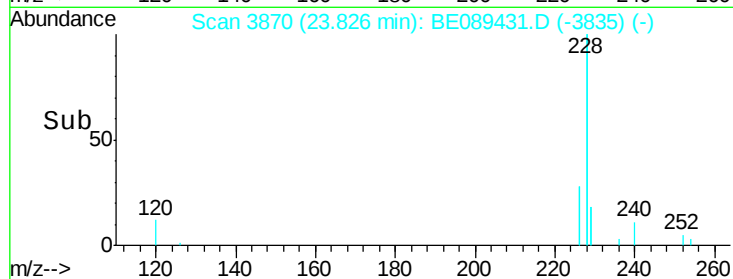
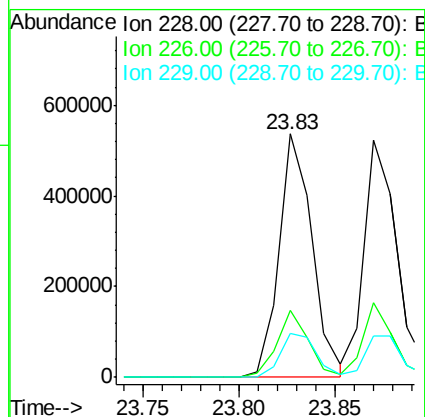
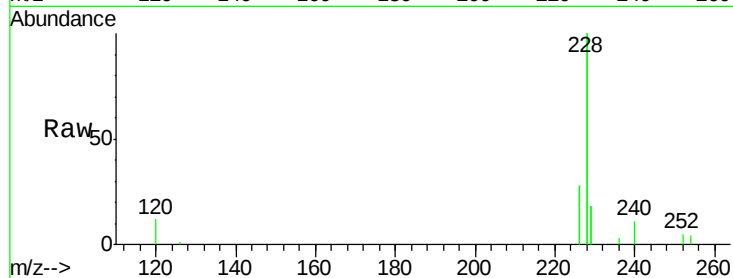




#23
Benzo(a)anthracene
Concen: 1.20 ng
RT: 23.83 min Scan# 3870
Delta R.T. -0.00 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

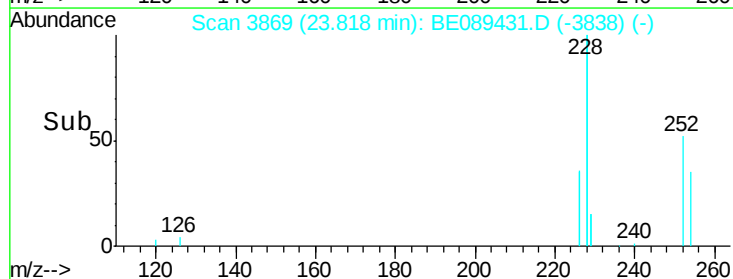
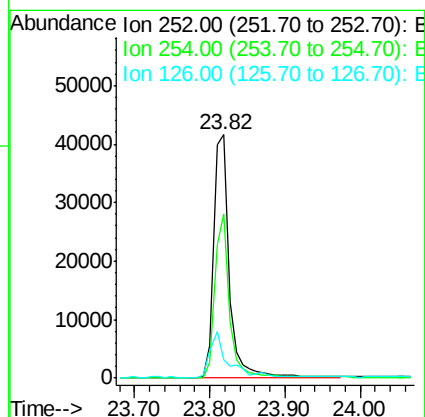
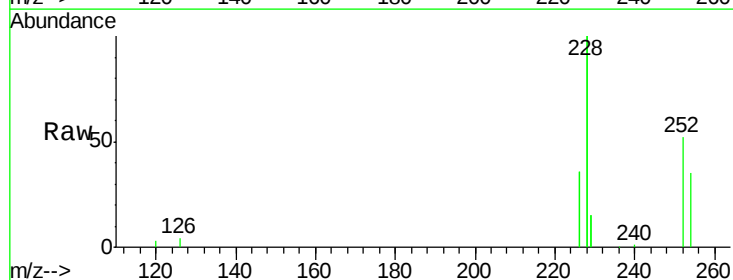
Instrument :
BNA_E
LabSampleId :
SSTDCCC001

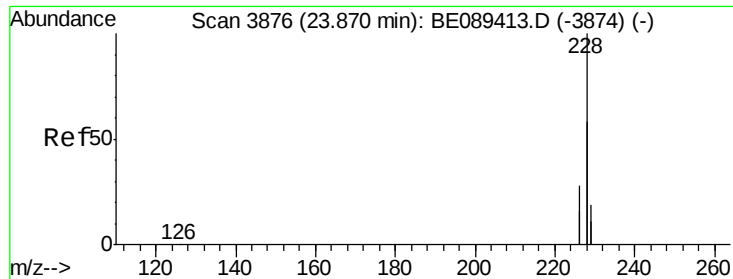
Tgt Ion: 228 Resp: 638967
Ion Ratio Lower Upper
228 100
226 27.7 22.6 33.8
229 17.9 14.5 21.7



#24
3,3'-Dichlorobenzidine
Concen: 1.41 ng
RT: 23.82 min Scan# 3869
Delta R.T. 0.01 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

Tgt Ion: 252 Resp: 58623
Ion Ratio Lower Upper
252 100
254 67.2 51.1 76.7
126 7.5 11.5 17.3#





#25

Chrysene

Concen: 0.91 ng

RT: 23.87 min Scan# 3875

Delta R.T. -0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

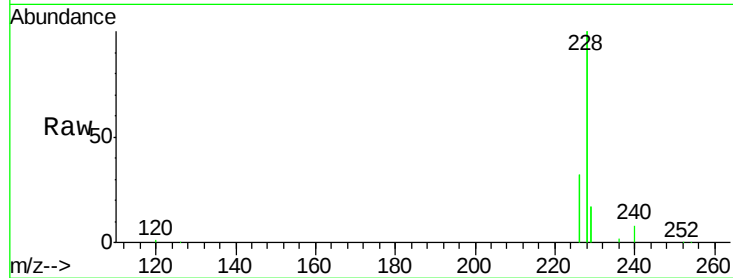
Tgt Ion:228 Resp: 660407

Ion Ratio Lower Upper

228 100

226 31.5 22.6 33.8

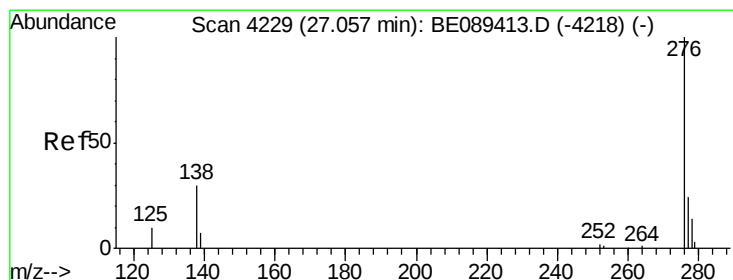
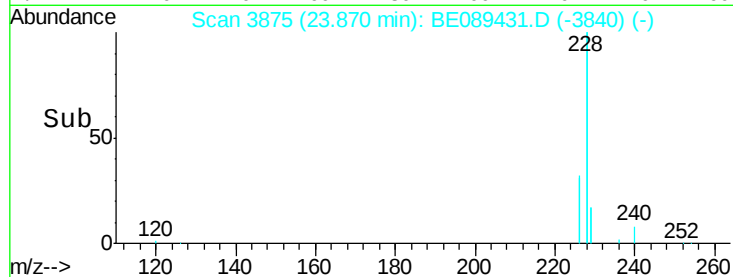
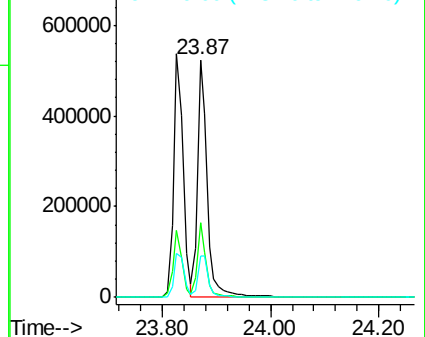
229 17.2 15.5 23.3



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 1.58 ng

RT: 27.07 min Scan# 4229

Delta R.T. 0.01 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

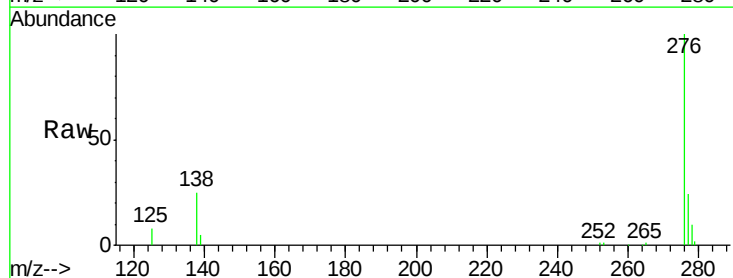
Tgt Ion:276 Resp: 197968

Ion Ratio Lower Upper

276 100

138 32.5 0.0 0.0#

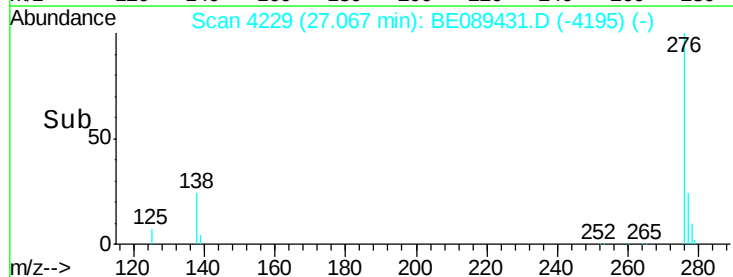
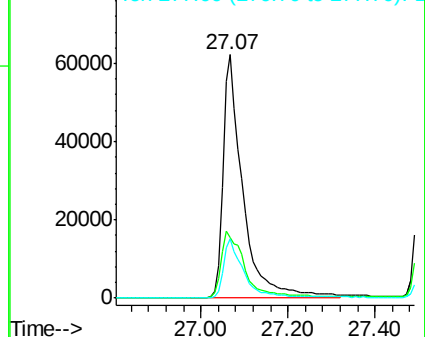
277 24.7 0.0 0.0#

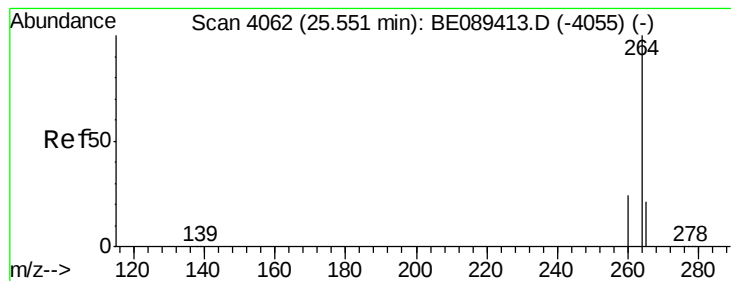


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#27

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4061

Delta R.T. 0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001

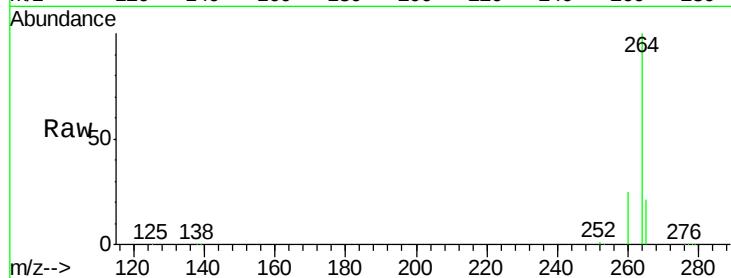
Tgt Ion: 264 Resp: 744049

Ion Ratio Lower Upper

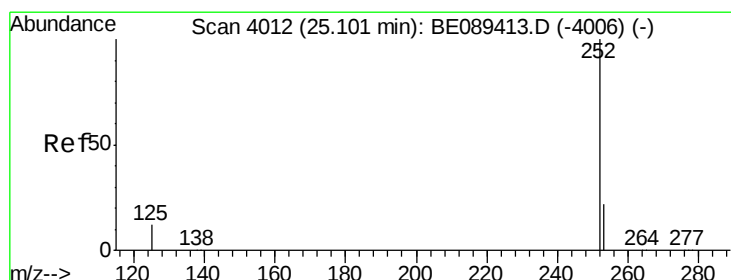
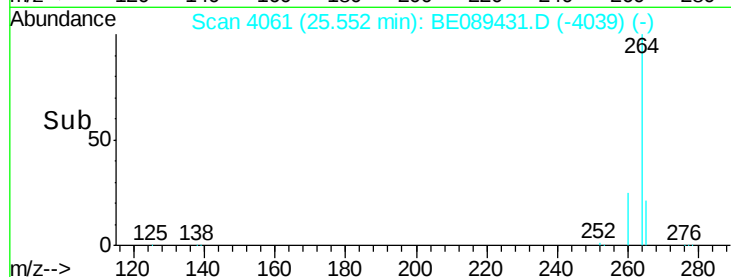
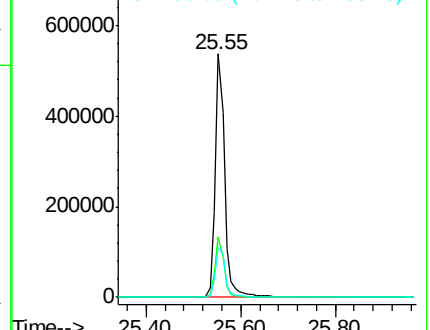
264 100

260 24.8 19.4 29.0

265 20.9 17.1 25.7



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



#28

Benzo(b)fluoranthene

Concen: 1.97 ng

RT: 25.10 min Scan# 4011

Delta R.T. 0.00 min

Lab File: BE089431.D

Acq: 30 Jan 2015 3:36

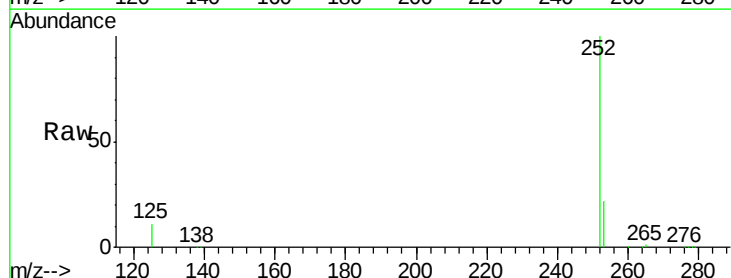
Tgt Ion: 252 Resp: 144666

Ion Ratio Lower Upper

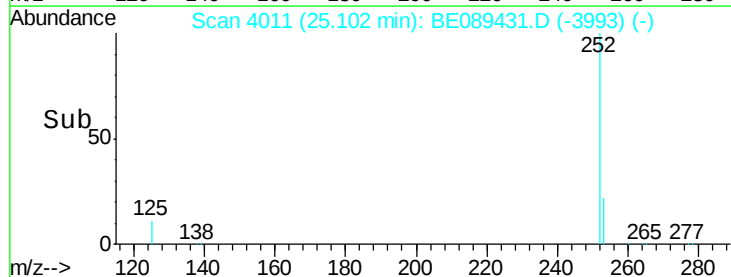
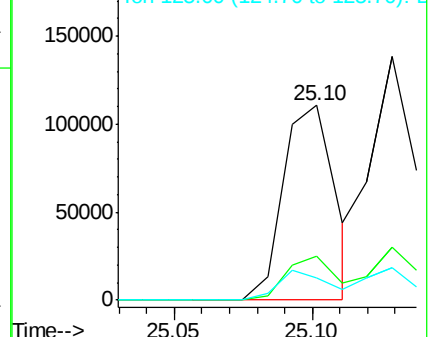
252 100

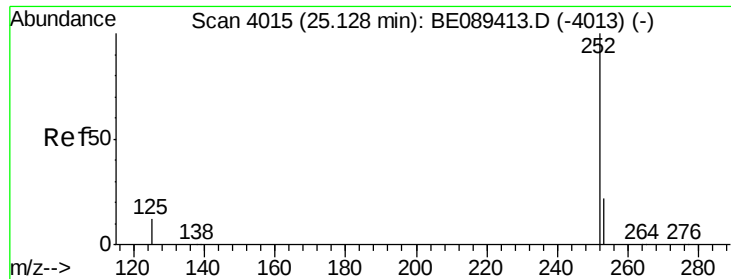
253 22.3 17.6 26.4

125 11.5 10.5 15.7



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

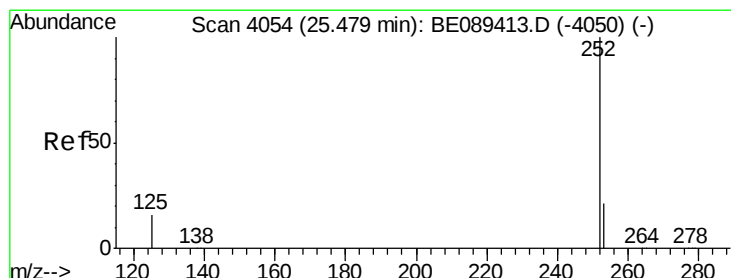
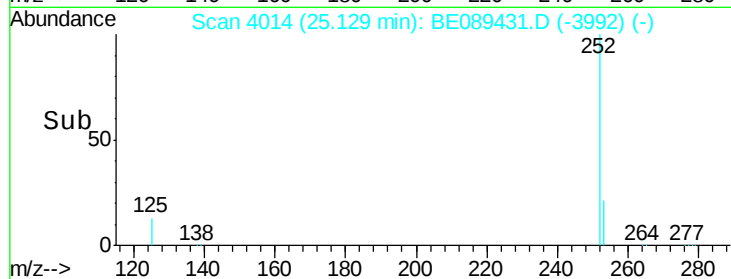
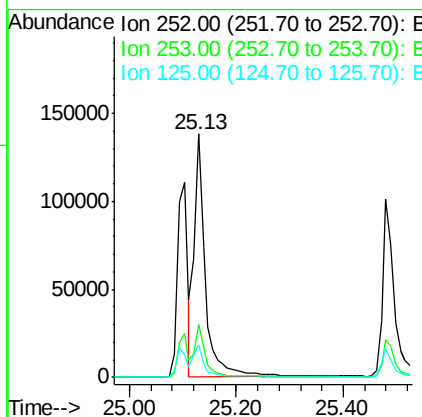
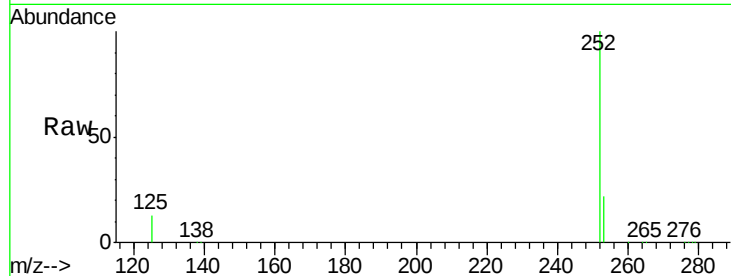




#29
Benzo(k)fluoranthene
Concen: 1.03 ng
RT: 25.13 min Scan# 4014
Delta R.T. 0.00 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

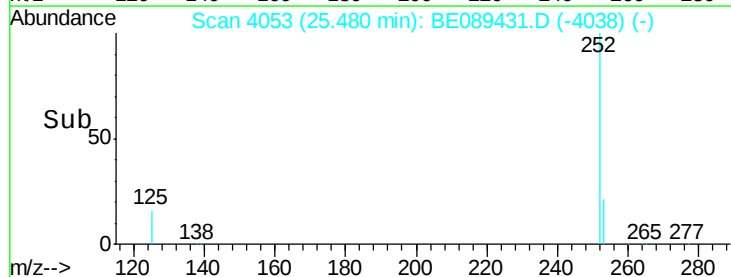
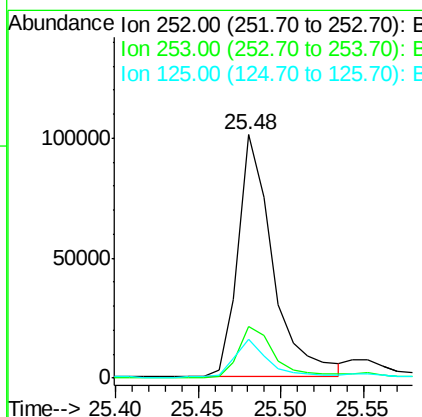
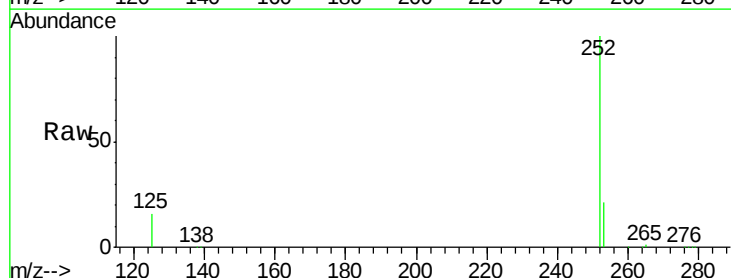
Instrument :
BNA_E
LabSampleId :
SSTDCCC001

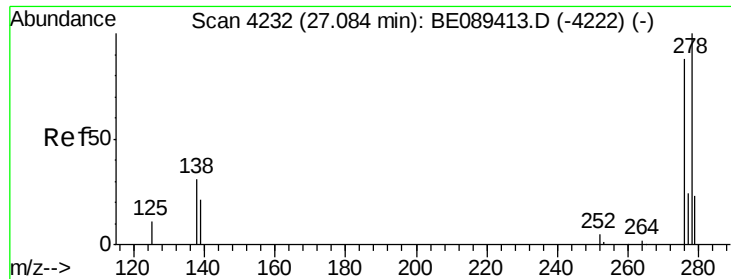
Tgt Ion: 252 Resp: 198958
Ion Ratio Lower Upper
252 100
253 21.6 17.4 26.2
125 13.2 11.0 16.6



#30
Benzo(a)pyrene
Concen: 1.64 ng
RT: 25.48 min Scan# 4053
Delta R.T. 0.00 min
Lab File: BE089431.D
Acq: 30 Jan 2015 3:36

Tgt Ion: 252 Resp: 148995
Ion Ratio Lower Upper
252 100
253 21.0 17.3 25.9
125 15.9 13.0 19.6





#31

Dibenzo(a,h)anthracene

Concen: 1.84 ng

RT: 27.09 min Scan# 4232

Delta R.T. 0.01 min

Lab File: BE089431.D

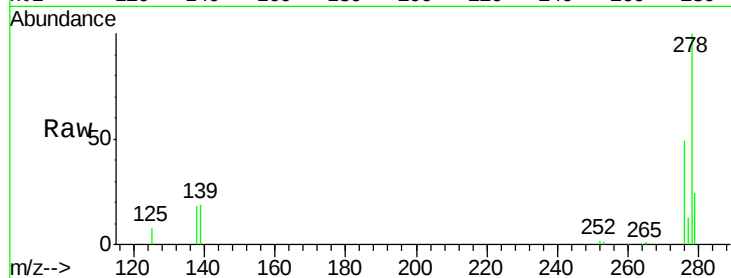
Acq: 30 Jan 2015 3:36

Instrument :

BNA_E

LabSampleId :

SSTDCCC001



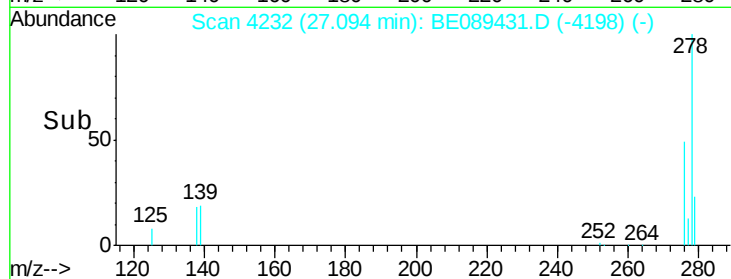
Tgt Ion: 278 Resp: 166745

Ion Ratio Lower Upper

278 100

139 19.1 17.2 25.8

279 23.7 19.2 28.8



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

