

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020215\
 Data File : BE089456.D
 Acq On : 2 Feb 2015 15:14
 Operator : TP/IZ
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

Quant Time: Feb 03 03:14:43 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 03 03:06:34 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	32551	5.00	ng	0.00
7) Naphthalene-d8	12.49	136	109497	5.00	ng	0.00
13) Acenaphthene-d10	16.68	164	33836	5.00	ng	0.00
17) Phenanthrene-d10	19.99	188	51791	5.00	ng	0.00
20) Chrysene-d12	23.84	240	82333	5.00	ng	0.00
27) Perylene-d12	25.56	264	113154	5.00	ng	0.00

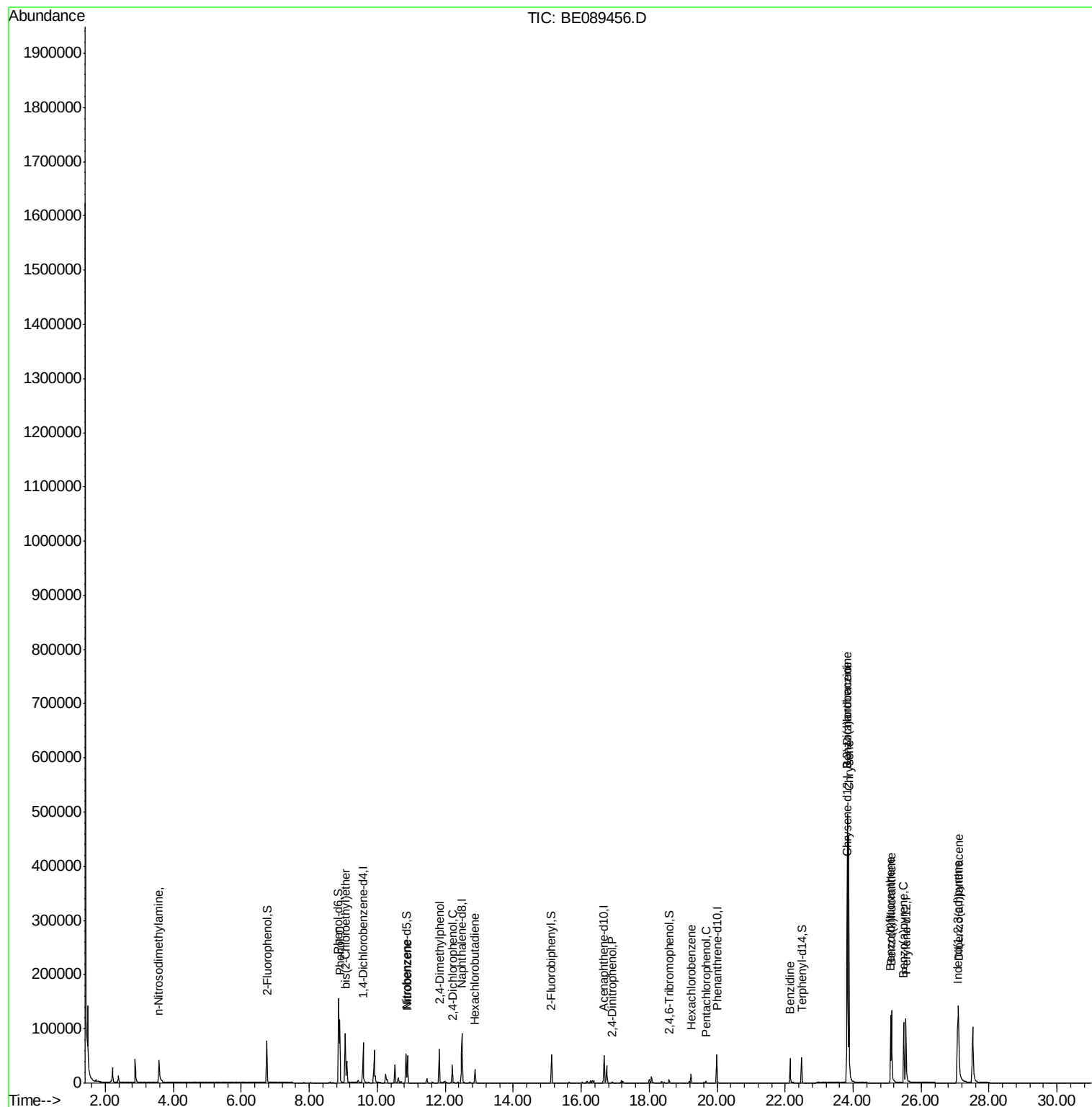
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.75	112	54614	4.82	ng	0.00
4) Phenol-d6	8.87	99	62245	4.54	ng	0.00
8) Nitrobenzene-d5	10.85	82	41570	4.70	ng	0.00
14) 2,4,6-Tribromophenol	18.58	330	4221	3.71	ng	0.00
15) 2-Fluorobiphenyl	15.13	172	50438	5.40	ng	0.00
22) Terphenyl-d14	22.48	244	43584	4.22	ng	0.00

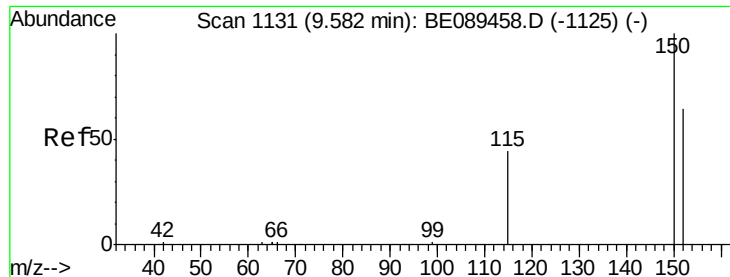
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.57	42	30241	5.15	ng	# 65
5) Phenol	8.91	94	67277	4.52	ng	# 76
6) bis(2-Chloroethyl)ether	9.06	93	46965	4.25	ng	# 97
9) Nitrobenzene	10.89	77	48098	4.75	ng	99
10) 2,4-Dimethylphenol	11.83	122	33566	4.64	ng	97
11) 2,4-Dichlorophenol	12.21	162	25772	4.84	ng	99
12) Hexachlorobutadiene	12.87	225	17311	4.82	ng	98
16) 2,4-Dinitrophenol	16.91	184	1194	2.78	ng	97
18) Hexachlorobenzene	19.23	284	14076	5.10	ng	97
19) Pentachlorophenol	19.67	266	1999	4.14	ng	96
21) Benzidine	22.15	184	42861	7.59	ng	98
23) Benzo(a)anthracene	23.83	228	357337	5.54	ng	99
24) 3,3'-Dichlorobenzidine	23.82	252	38557	8.04	ng	# 97
25) Chrysene	23.87	228	382154	4.57	ng	99
26) Indeno(1,2,3-cd)pyrene	27.07	276	189824	14.23	ng	98
28) Benzo(b)fluoranthene	25.10	252	103148	10.13	ng	100
29) Benzo(k)fluoranthene	25.13	252	145831	4.76	ng	99
30) Benzo(a)pyrene	25.49	252	114249	8.31	ng	99
31) Dibenzo(a,h)anthracene	27.10	278	164529	12.22	ng	98

(#) = 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# 1132

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

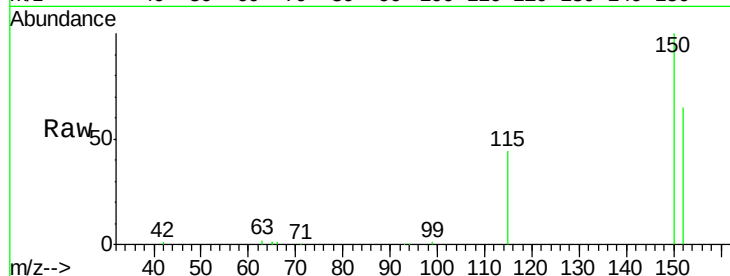
Tgt Ion:152 Resp: 32551

Ion Ratio Lower Upper

152 100

150 154.4 124.6 186.8

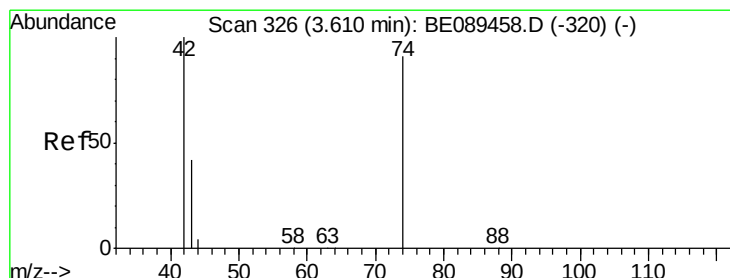
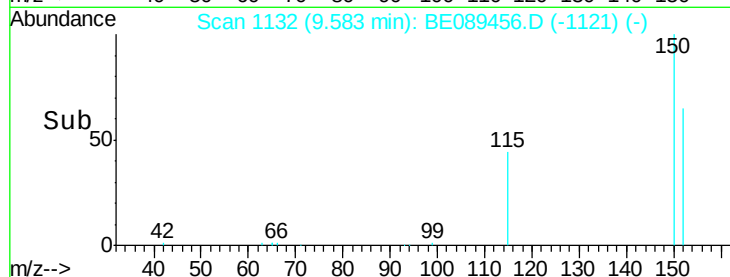
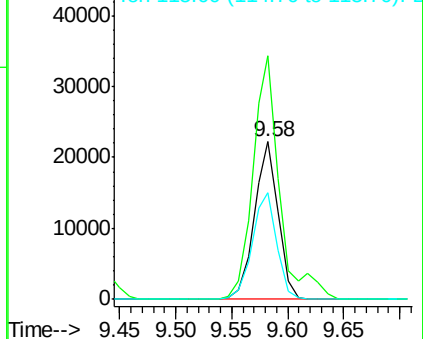
115 67.5 55.4 83.0



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: 5.15 ng

RT: 3.57 min Scan# 320

Delta R.T. -0.04 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

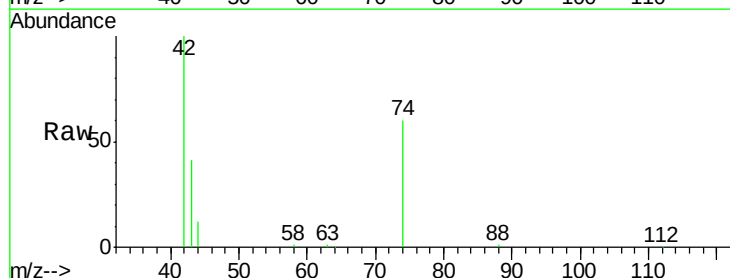
Tgt Ion: 42 Resp: 30241

Ion Ratio Lower Upper

42 100

74 59.7 72.1 108.1#

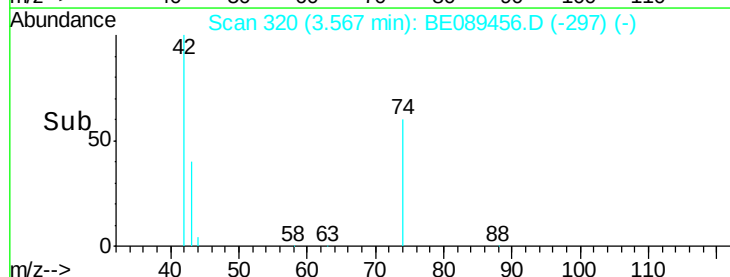
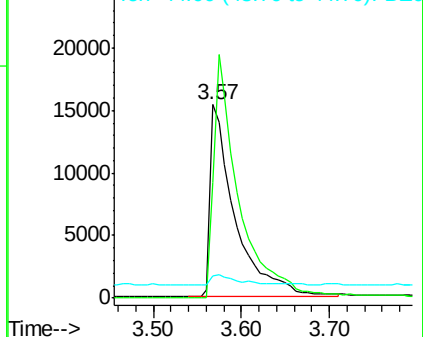
44 11.5 28.0 42.0#

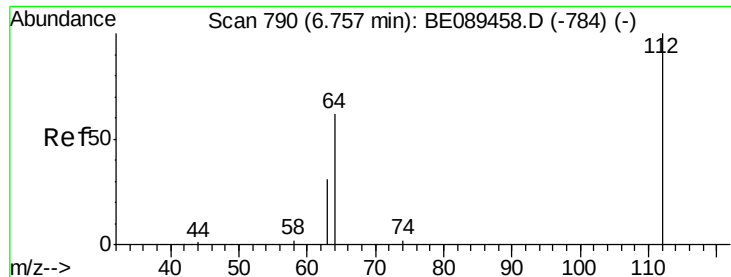


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 4.82 ng

RT: 6.75 min Scan# 790

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDICC005

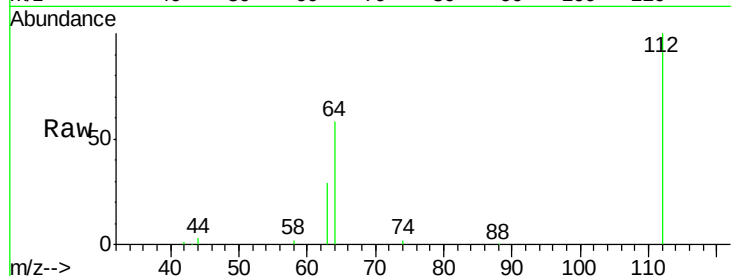
Tgt Ion: 112 Resp: 54614

Ion Ratio Lower Upper

112 100

64 57.8 49.8 74.8

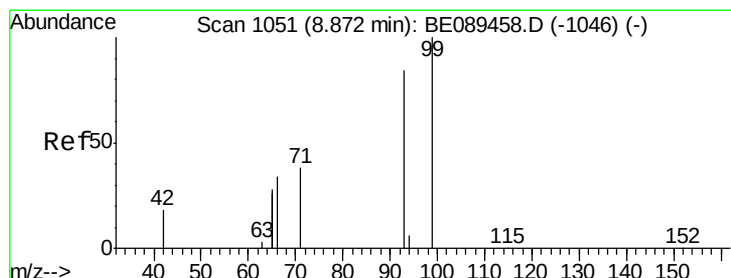
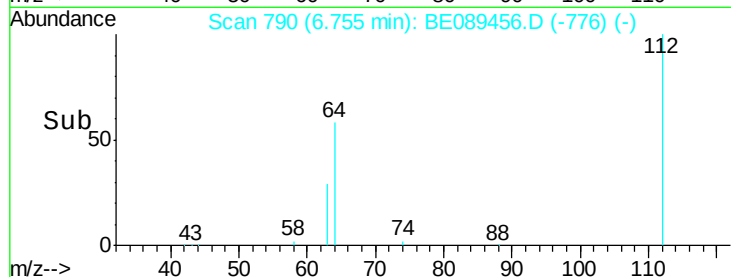
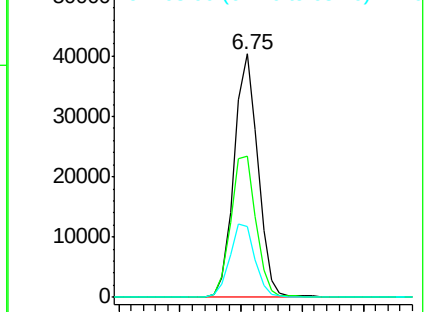
63 29.1 24.9 37.3



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: 4.54 ng

RT: 8.87 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

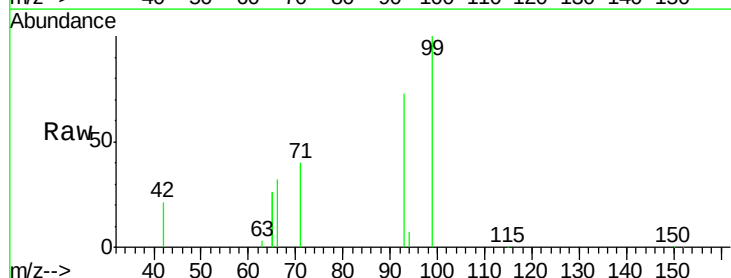
Tgt Ion: 99 Resp: 62245

Ion Ratio Lower Upper

99 100

42 21.1 15.0 22.4

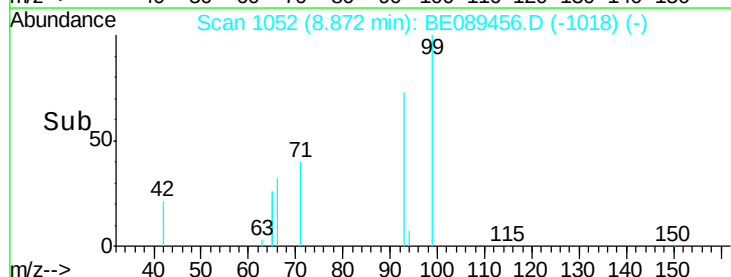
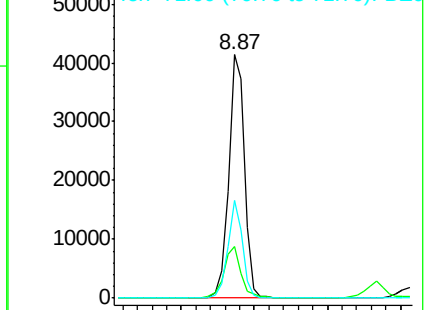
71 39.9 30.6 46.0

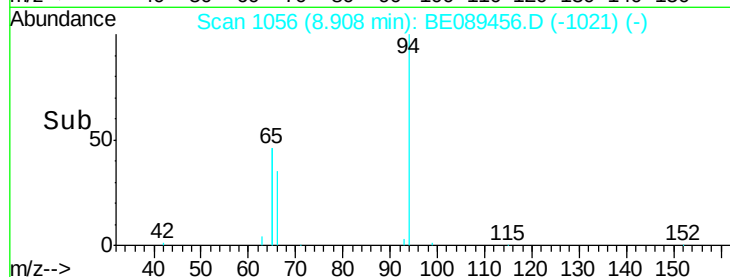
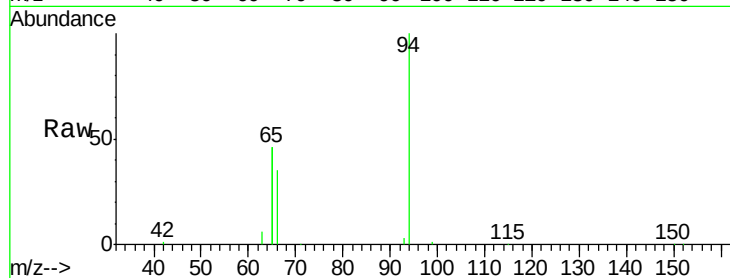
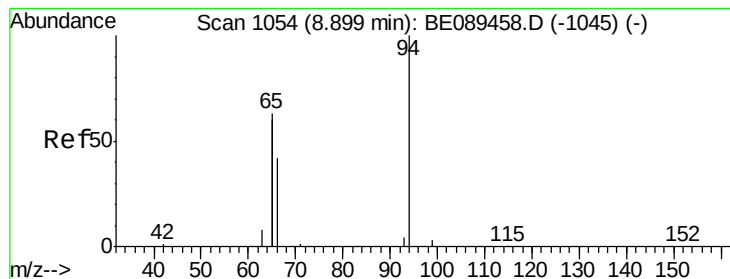


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 4.52 ng

RT: 8.91 min Scan# 1056

Delta R.T. 0.01 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

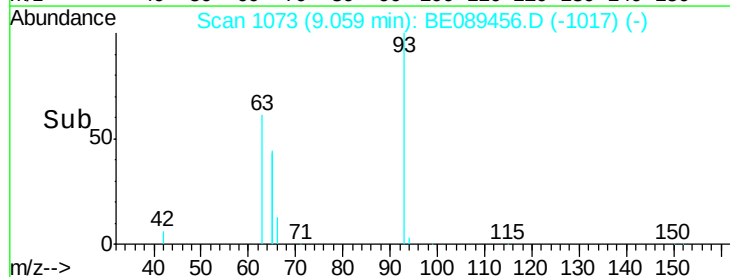
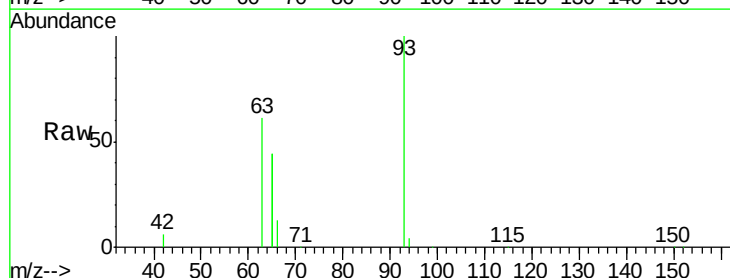
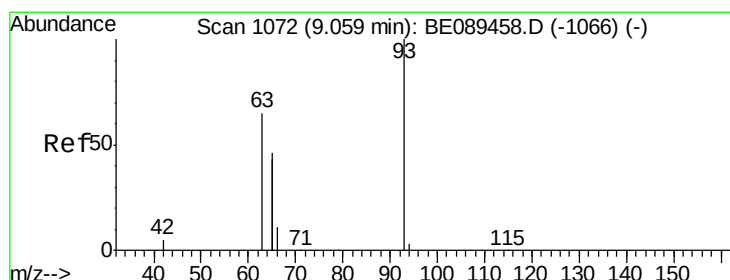
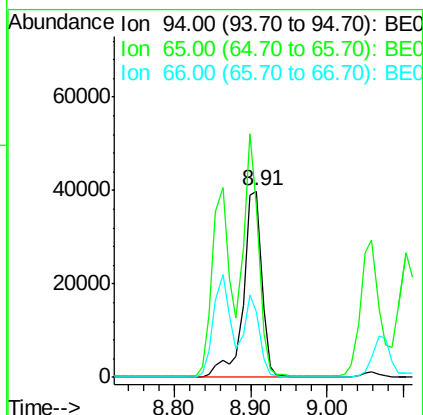
Tgt Ion: 94 Resp: 67277

Ion Ratio Lower Upper

94 100

65 92.5 105.0 145.0#

66 35.1 22.4 62.4



#6

bis(2-Chloroethyl)ether

Concen: 4.25 ng

RT: 9.06 min Scan# 1073

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

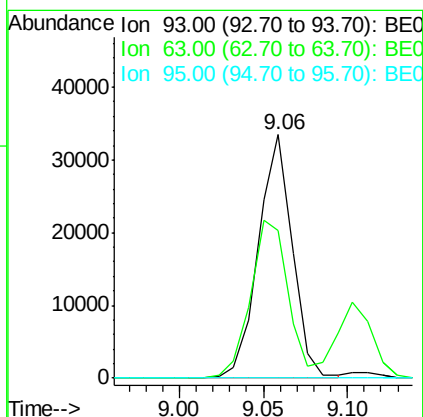
Tgt Ion: 93 Resp: 46965

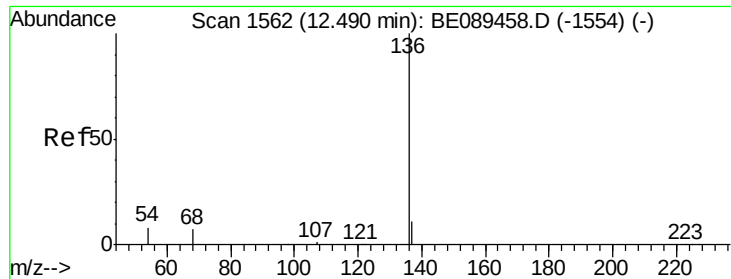
Ion Ratio Lower Upper

93 100

63 71.4 59.2 88.8

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDICC005

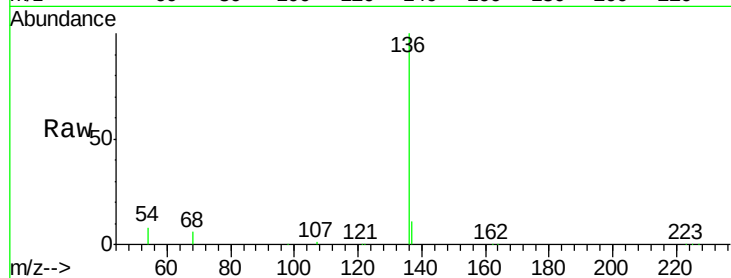
Tgt Ion: 136 Resp: 109497

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

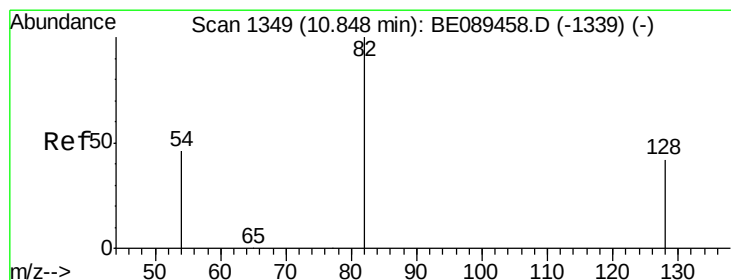
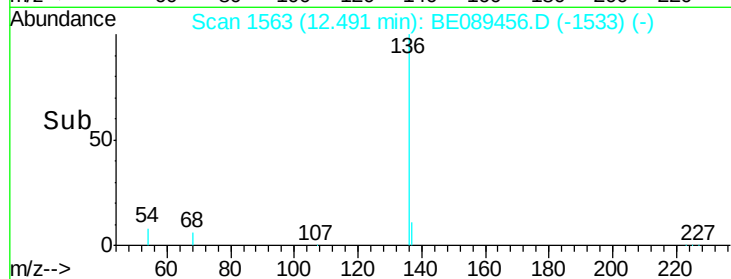
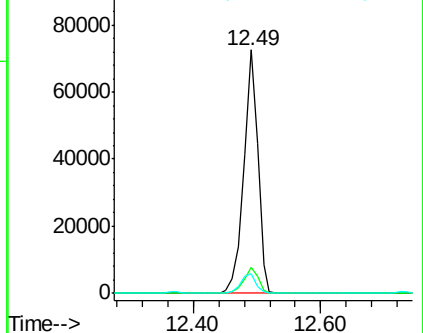
54 8.3 6.5 9.7



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: 4.70 ng

RT: 10.85 min Scan# 1350

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

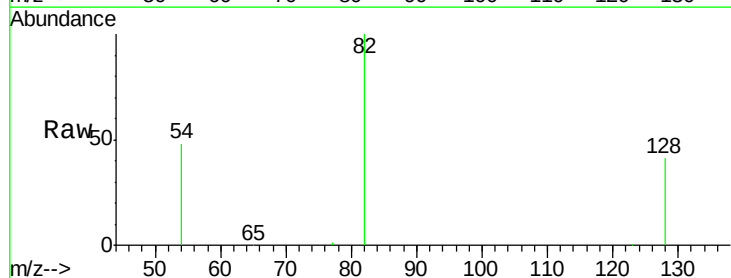
Tgt Ion: 82 Resp: 41570

Ion Ratio Lower Upper

82 100

128 40.8 34.2 51.2

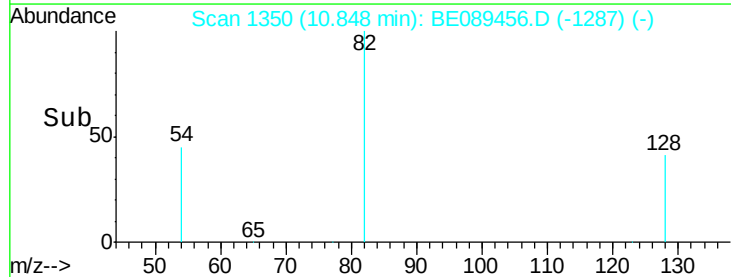
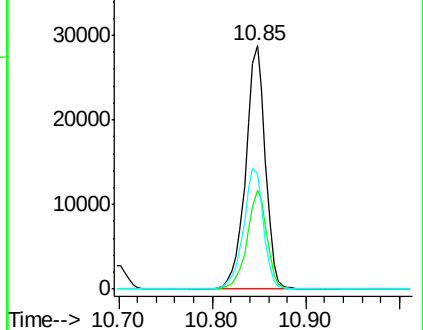
54 47.5 37.3 55.9

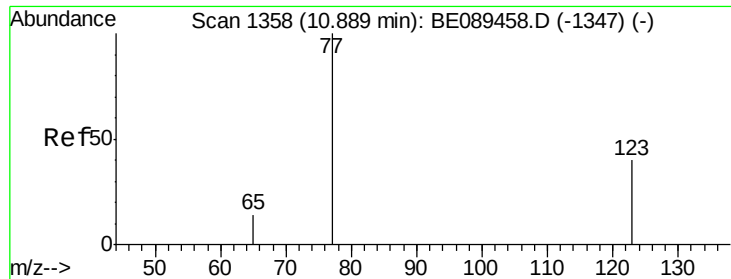


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 4.75 ng

RT: 10.89 min Scan# 1359

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

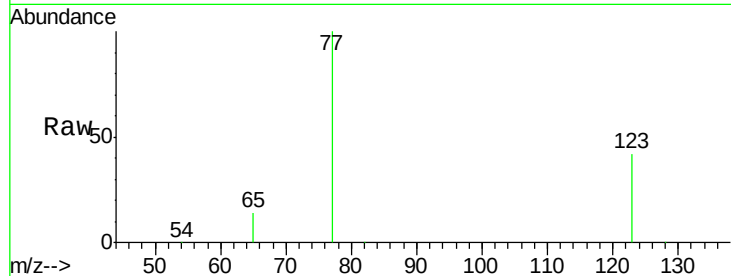
Tgt Ion: 77 Resp: 48098

Ion Ratio Lower Upper

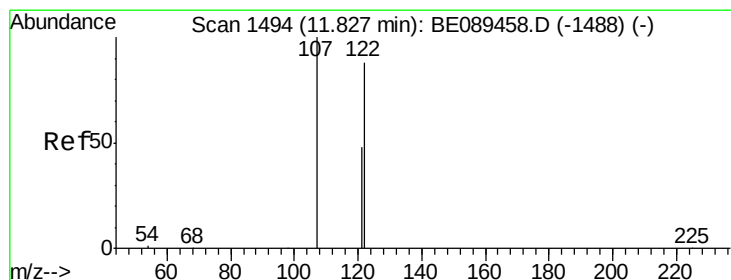
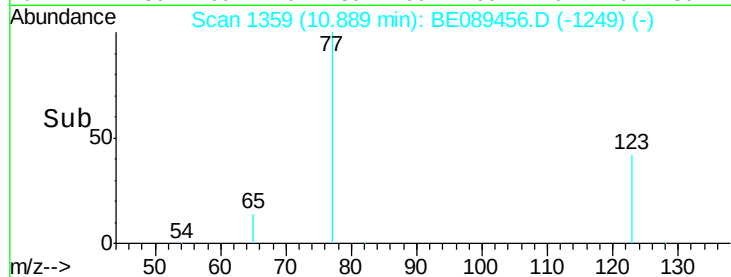
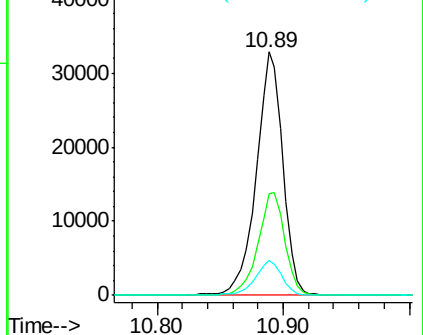
77 100

123 42.6 33.6 50.4

65 13.9 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: 4.64 ng

RT: 11.83 min Scan# 1495

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

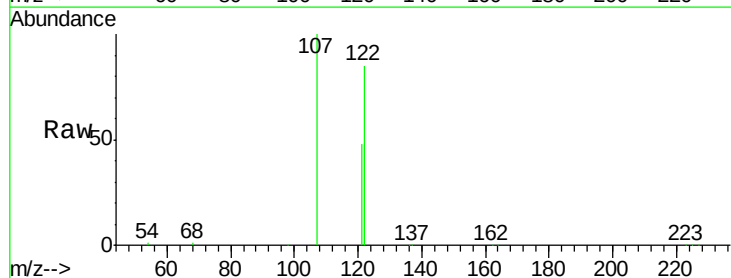
Tgt Ion: 122 Resp: 33566

Ion Ratio Lower Upper

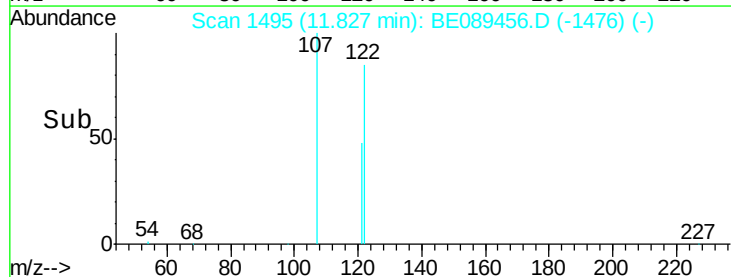
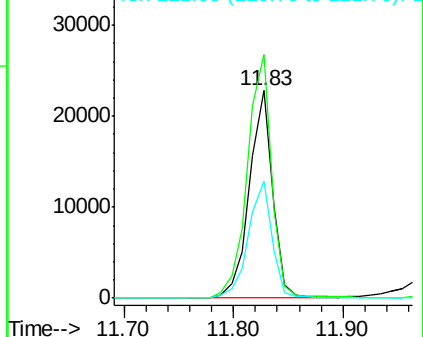
122 100

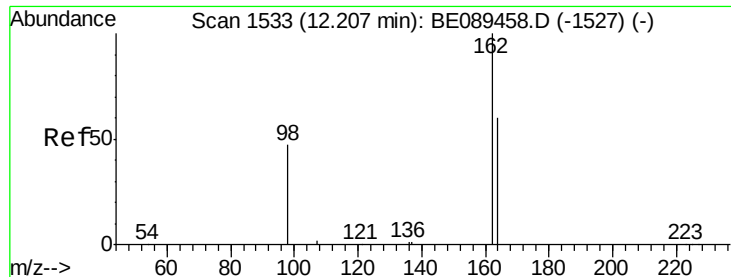
107 117.4 90.6 136.0

121 56.6 43.7 65.5



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

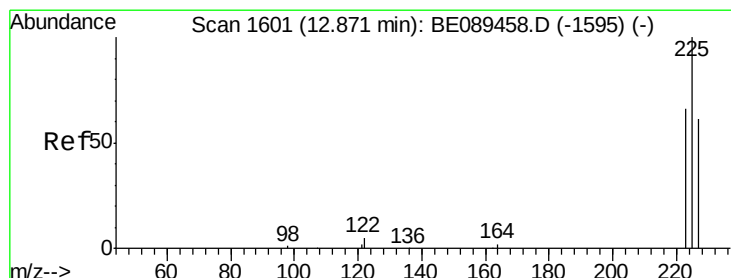
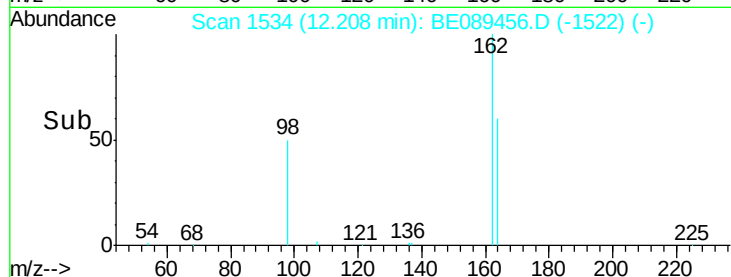
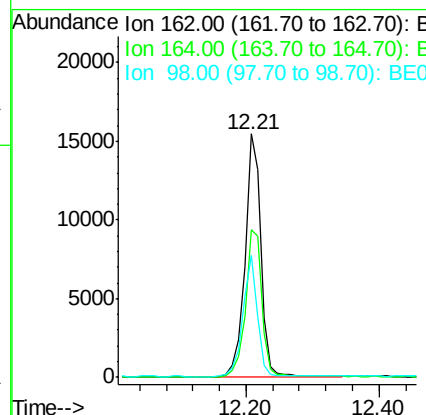
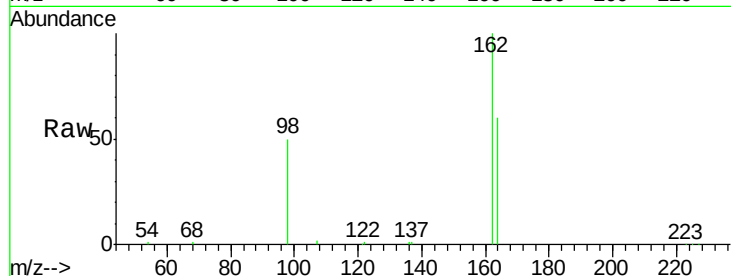




#11
 2,4-Dichlorophenol
 Concen: 4.84 ng
 RT: 12.21 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: BE089456.D
 Acq: 2 Feb 2015 15:14

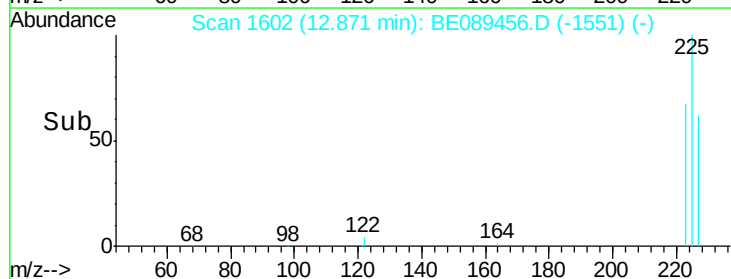
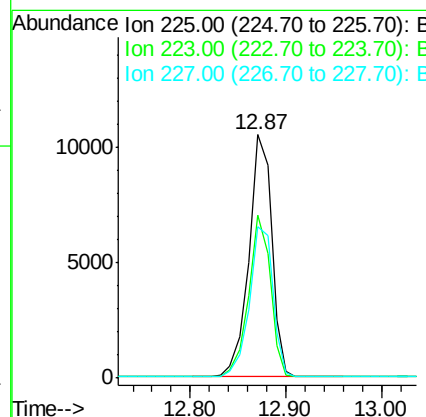
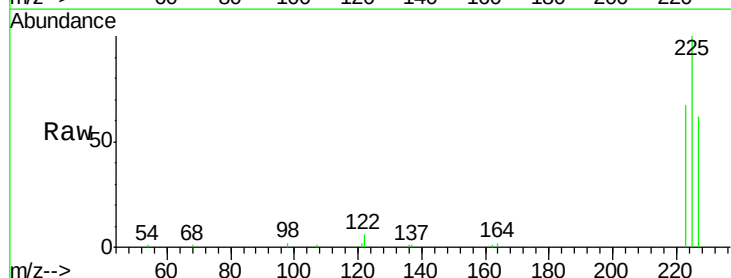
Instrument :
 BNA_E
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 SSTDICC005

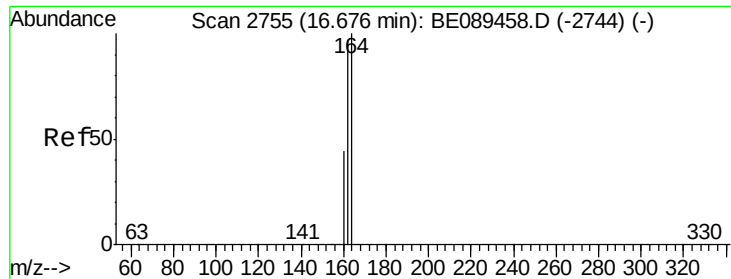
Tgt Ion:162 Resp: 25772
 Ion Ratio Lower Upper
 162 100
 164 60.5 40.5 80.5
 98 49.9 28.1 68.1



#12
 Hexachlorobutadiene
 Concen: 4.82 ng
 RT: 12.87 min Scan# 1602
 Delta R.T. 0.00 min
 Lab File: BE089456.D
 Acq: 2 Feb 2015 15:14

Tgt Ion:225 Resp: 17311
 Ion Ratio Lower Upper
 225 100
 223 63.7 50.2 75.2
 227 63.9 49.9 74.9





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.68 min Scan# 2756

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

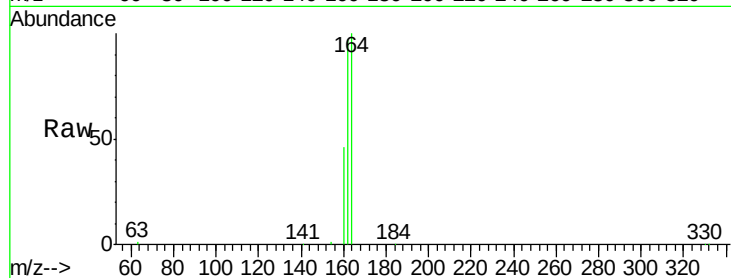
Tgt Ion:164 Resp: 33836

Ion Ratio Lower Upper

164 100

162 97.1 77.4 116.2

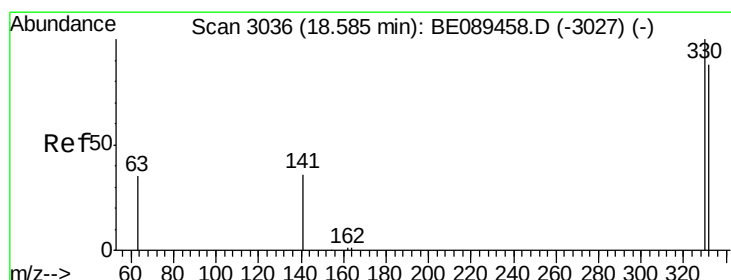
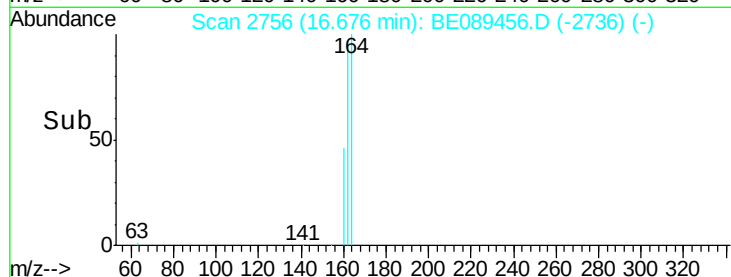
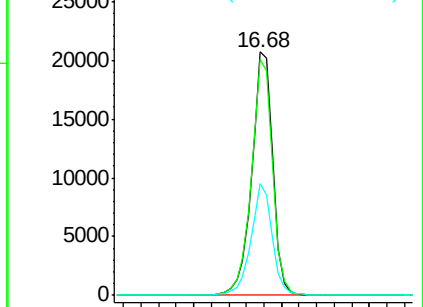
160 45.9 35.5 53.3



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: 3.71 ng

RT: 18.58 min Scan# 3037

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

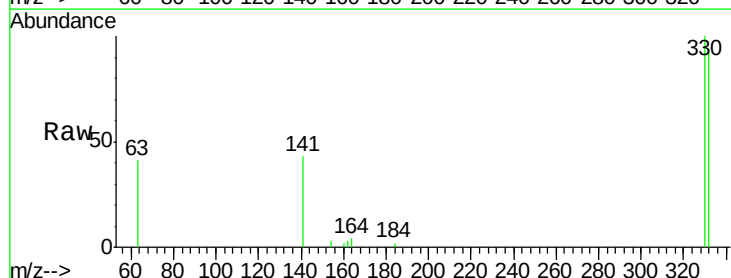
Tgt Ion:330 Resp: 4221

Ion Ratio Lower Upper

330 100

332 96.4 75.4 113.2

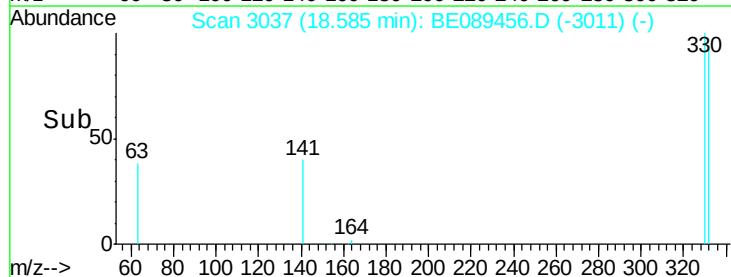
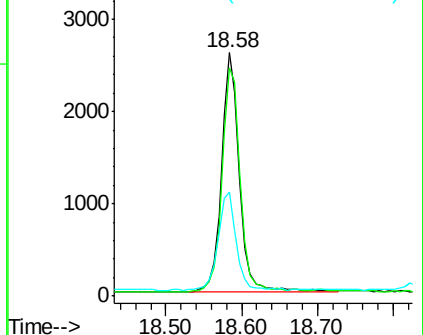
141 41.8 35.7 53.5

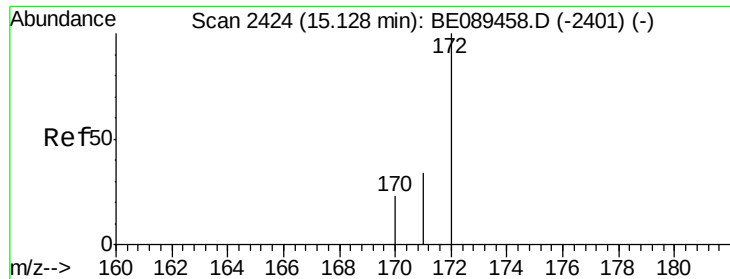


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

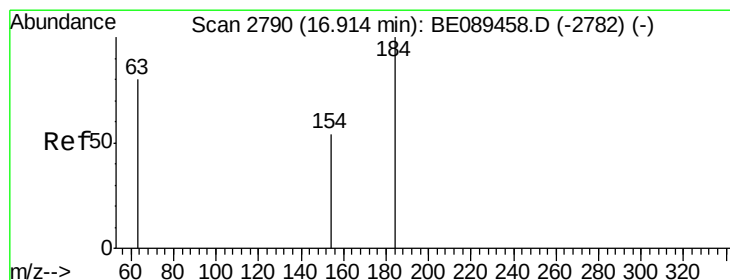
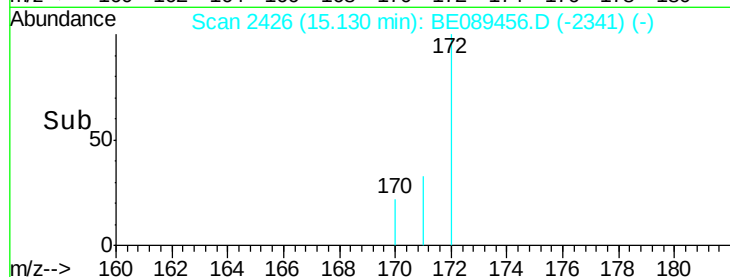
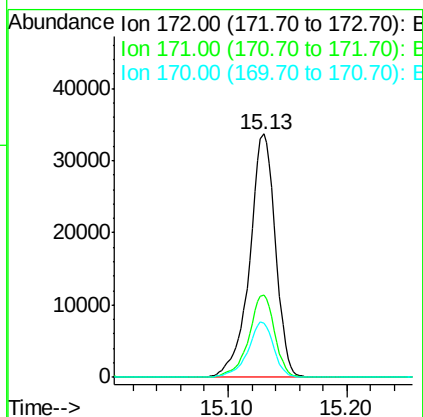
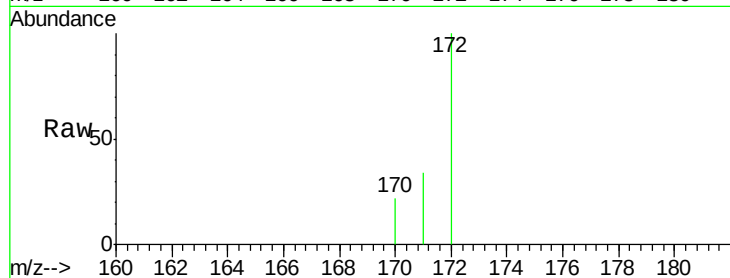




#15
2-Fluorobiphenyl
Concen: 5.40 ng
RT: 15.13 min Scan# 2426
Delta R.T. 0.00 min
Lab File: BE089456.D
Acq: 2 Feb 2015 15:14

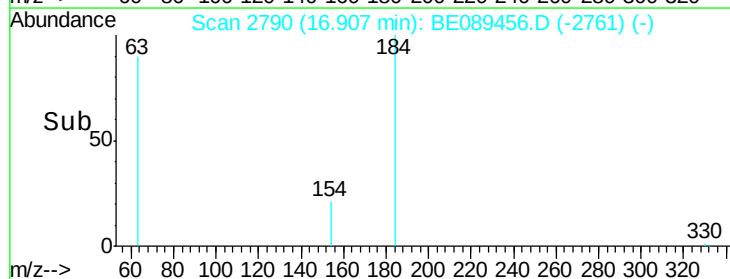
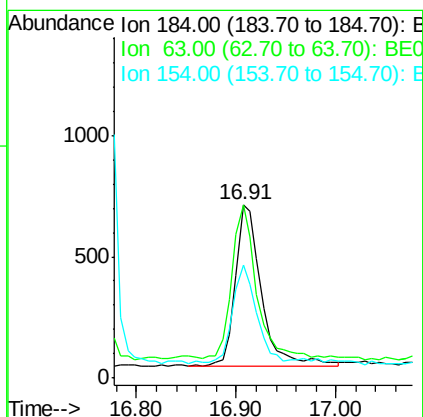
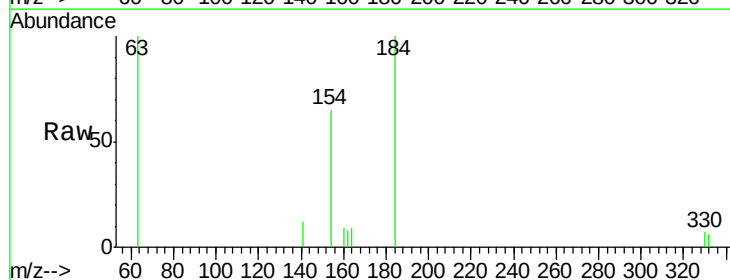
Instrument :
BNA_E
LabSampleId :
SSTDIC005

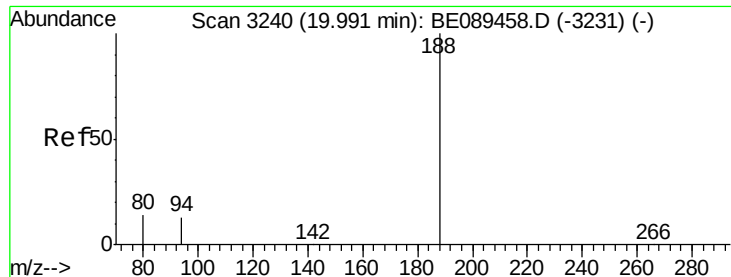
Tgt Ion:172 Resp: 50438
Ion Ratio Lower Upper
172 100
171 33.6 27.7 41.5
170 22.0 18.3 27.5



#16
2,4-Dinitrophenol
Concen: 2.78 ng
RT: 16.91 min Scan# 2790
Delta R.T. -0.01 min
Lab File: BE089456.D
Acq: 2 Feb 2015 15:14

Tgt Ion:184 Resp: 1194
Ion Ratio Lower Upper
184 100
63 99.7 77.0 115.6
154 65.3 54.0 81.0





#17

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.99 min Scan# 3241

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

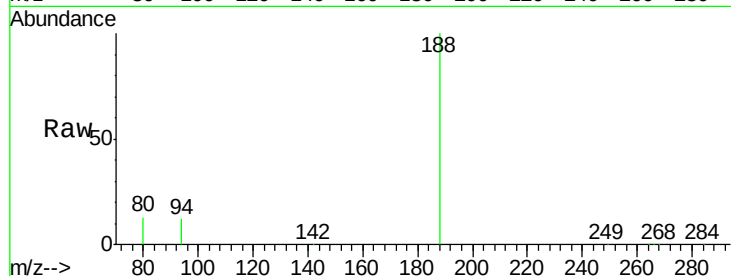
Tgt Ion:188 Resp: 51791

Ion Ratio Lower Upper

188 100

94 12.2 10.2 15.4

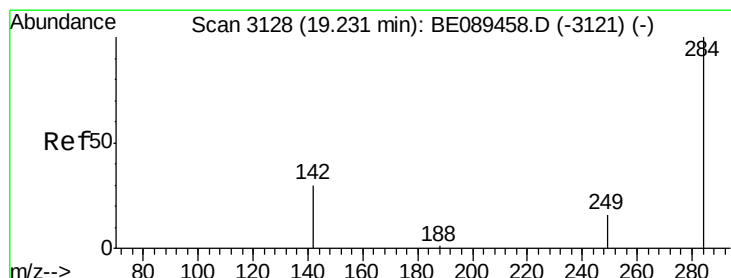
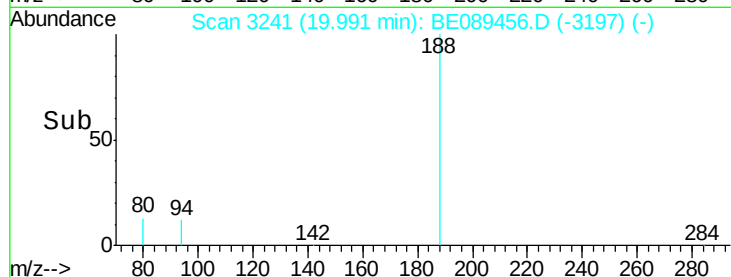
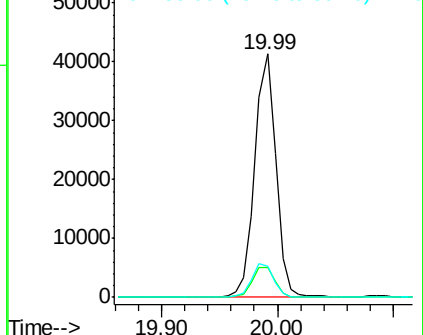
80 13.0 10.9 16.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#18

Hexachlorobenzene

Concen: 5.10 ng

RT: 19.23 min Scan# 3129

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

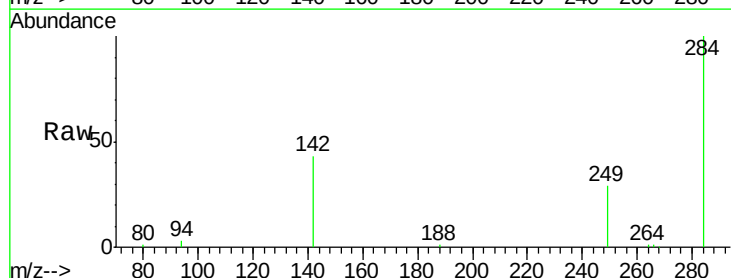
Tgt Ion:284 Resp: 14076

Ion Ratio Lower Upper

284 100

142 42.6 31.8 47.8

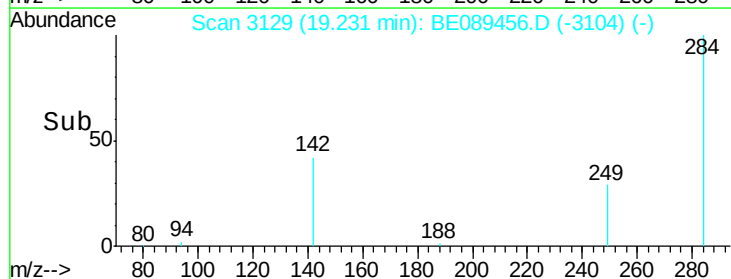
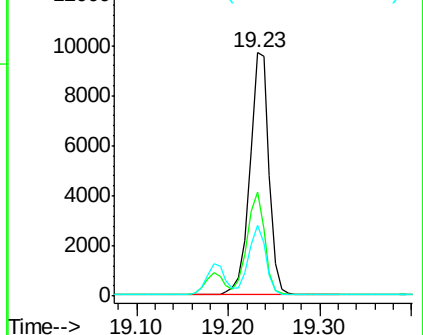
249 28.9 23.5 35.3

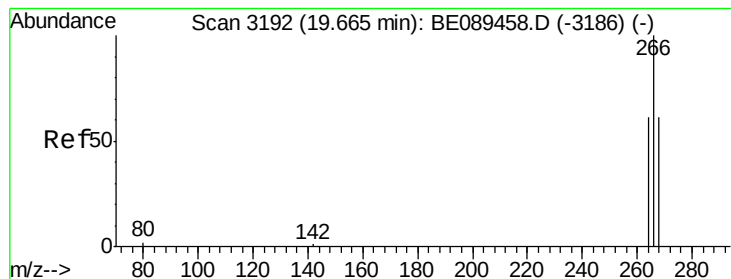


Abundance Ion 284.00 (283.70 to 284.70): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#19

Pentachlorophenol

Concen: 4.14 ng

RT: 19.67 min Scan# 3193

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

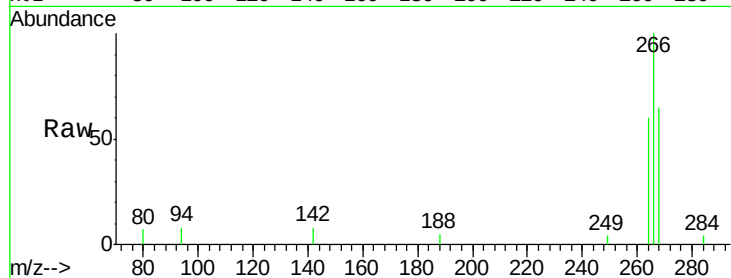
Tgt Ion:266 Resp: 1999

Ion Ratio Lower Upper

266 100

268 64.6 52.6 78.8

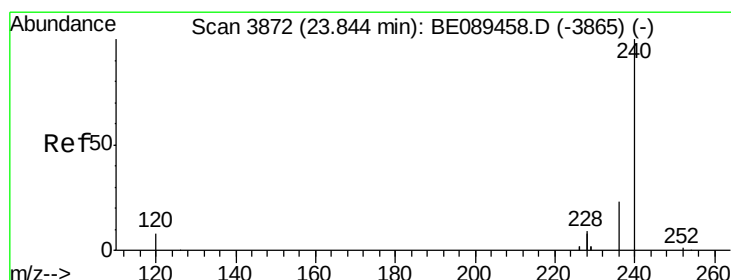
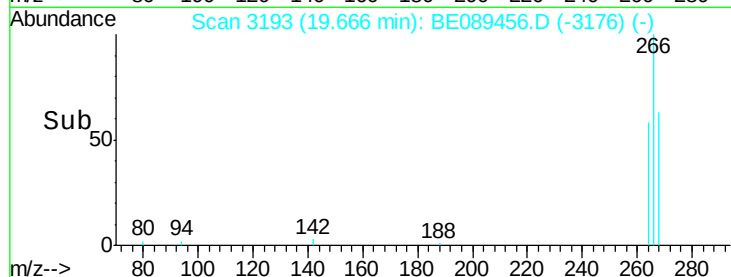
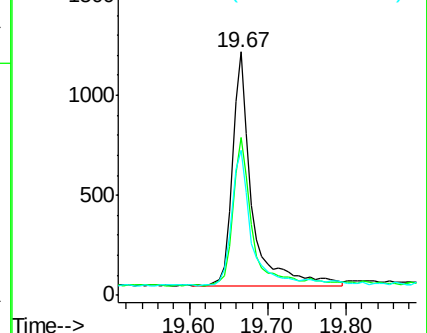
264 59.5 52.2 78.2



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# 3873

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

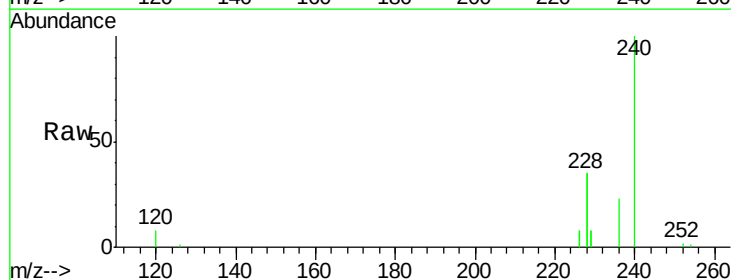
Tgt Ion:240 Resp: 82333

Ion Ratio Lower Upper

240 100

120 8.3 6.2 9.4

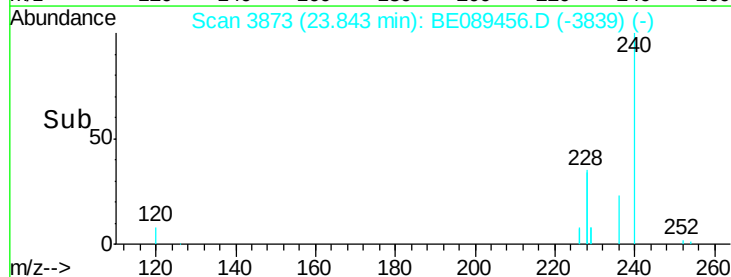
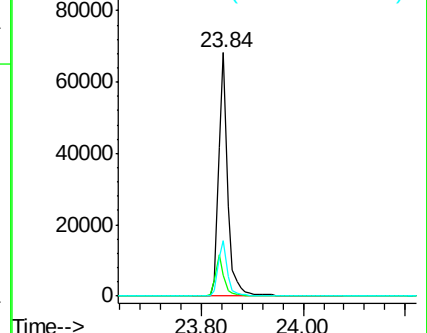
236 22.8 18.2 27.4

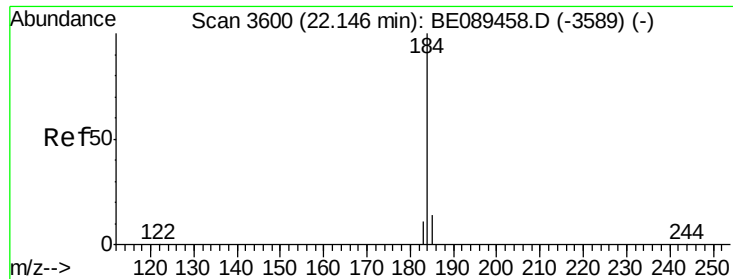


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#21

Benzidine

Concen: 7.59 ng

RT: 22.15 min Scan# 3601

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

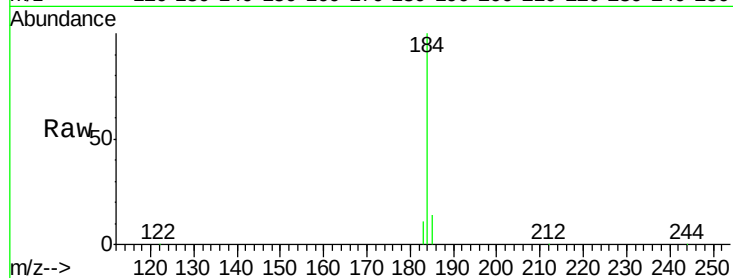
Tgt Ion:184 Resp: 42861

Ion Ratio Lower Upper

184 100

185 13.6 11.7 17.5

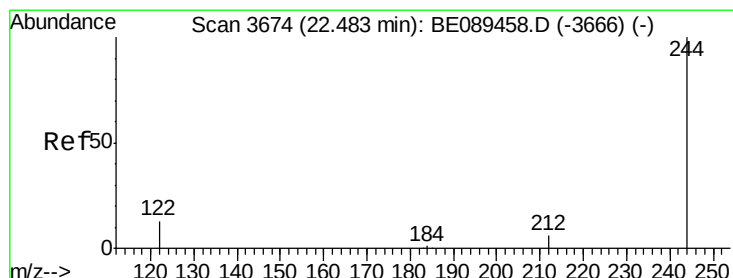
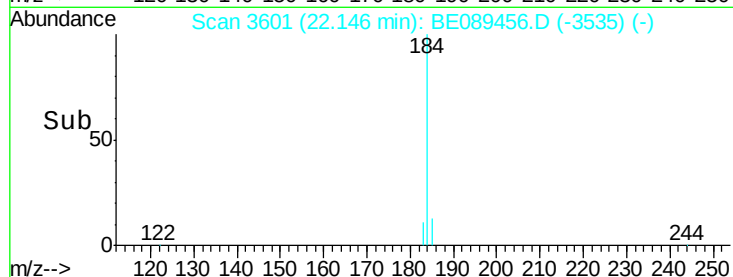
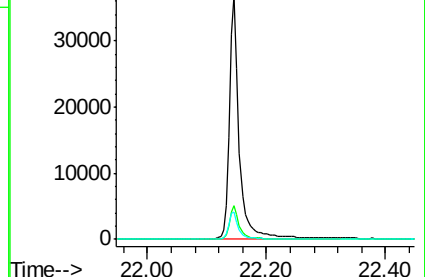
183 11.1 9.4 14.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#22

Terphenyl-d14

Concen: 4.22 ng

RT: 22.48 min Scan# 3675

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

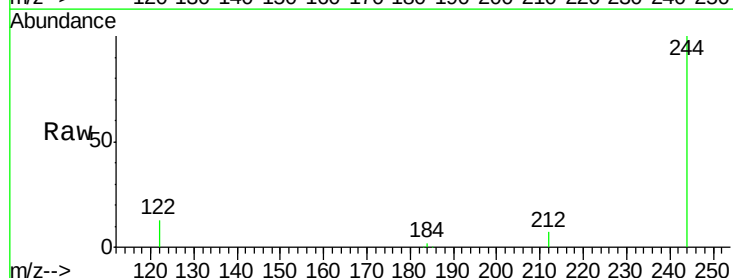
Tgt Ion:244 Resp: 43584

Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

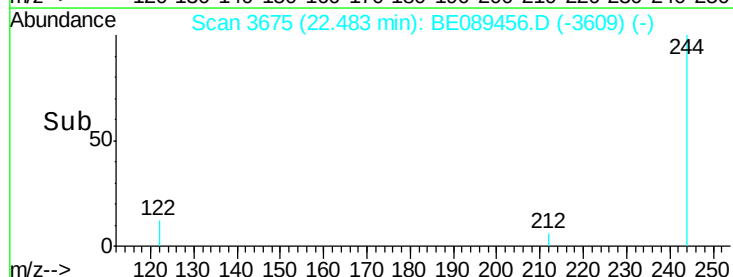
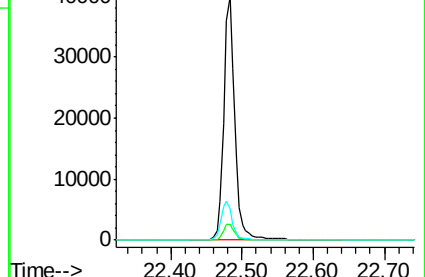
122 12.5 10.5 15.7

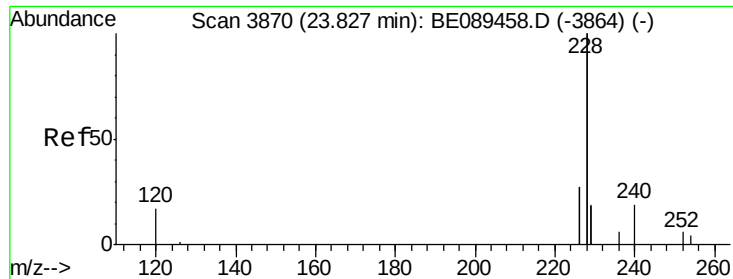


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 5.54 ng

RT: 23.83 min Scan# 3871

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDICC005

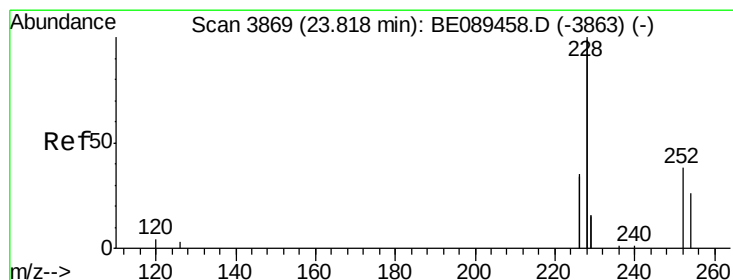
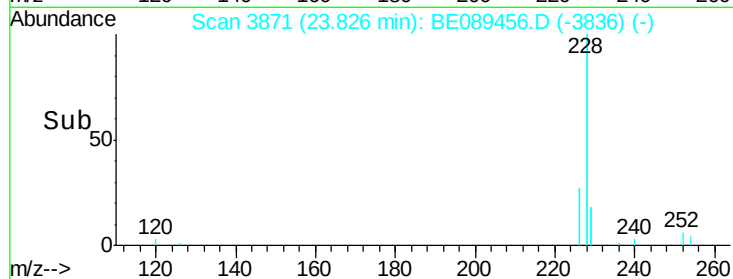
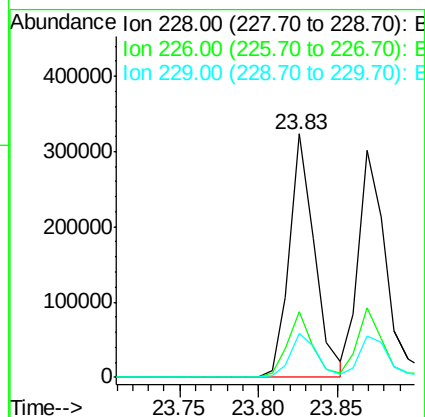
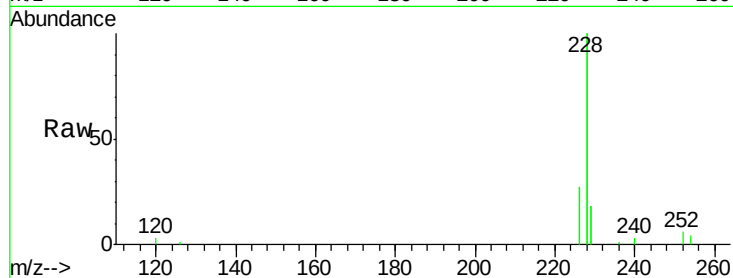
Tgt Ion:228 Resp: 357337

Ion Ratio Lower Upper

228 100

226 26.8 21.7 32.5

229 18.3 14.8 22.2



#24

3,3'-Dichlorobenzidine

Concen: 8.04 ng

RT: 23.82 min Scan# 3870

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

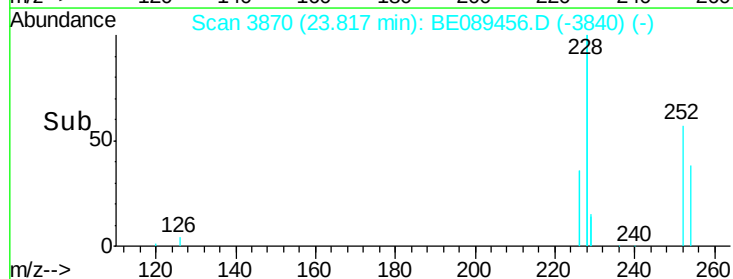
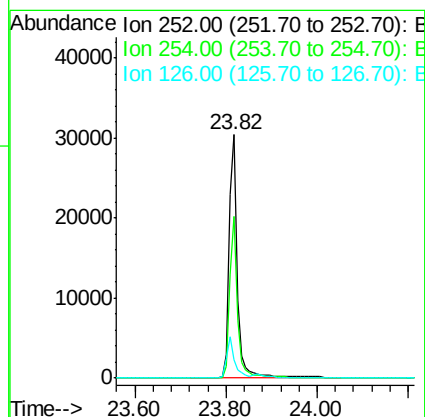
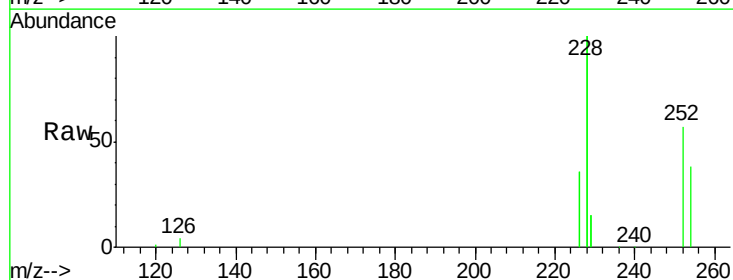
Tgt Ion:252 Resp: 38557

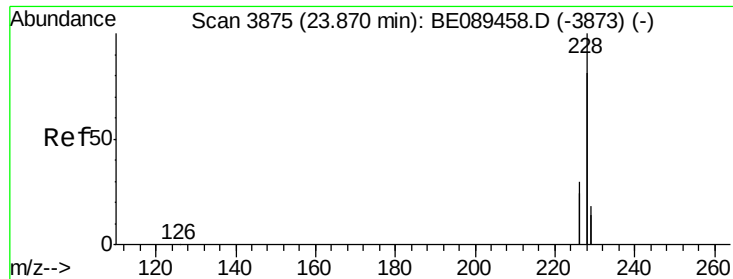
Ion Ratio Lower Upper

252 100

254 66.5 54.6 82.0

126 7.6 8.0 12.0#





#25

Chrysene

Concen: 4.57 ng

RT: 23.87 min Scan# 3876

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

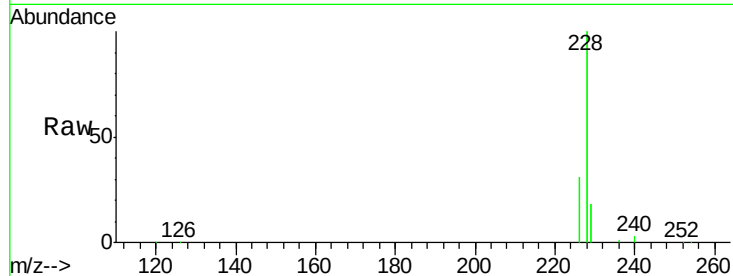
Tgt Ion: 228 Resp: 382154

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

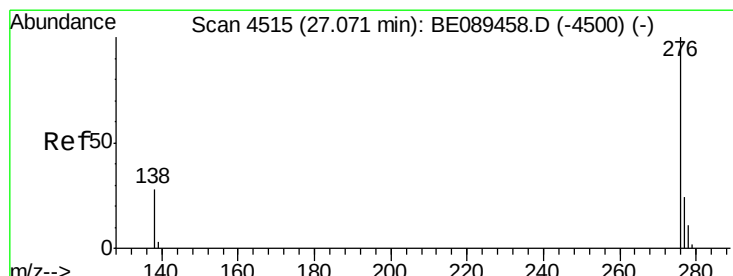
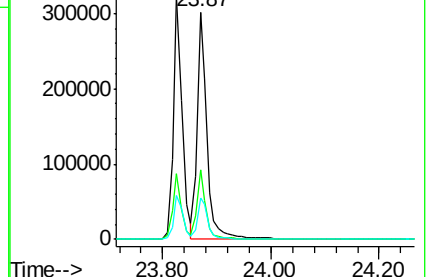
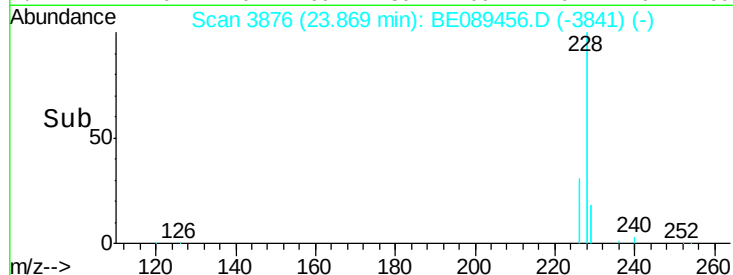
229 18.1 14.3 21.5



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: 14.23 ng

RT: 27.07 min Scan# 4516

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

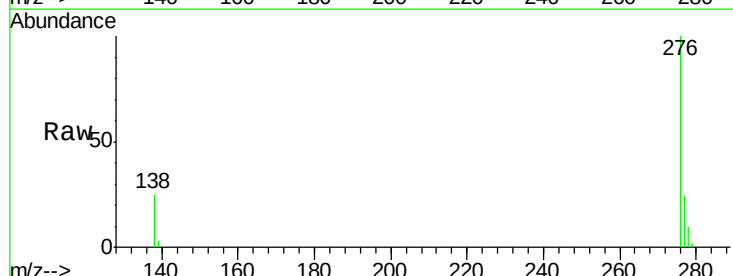
Tgt Ion: 276 Resp: 189824

Ion Ratio Lower Upper

276 100

138 30.4 23.3 34.9

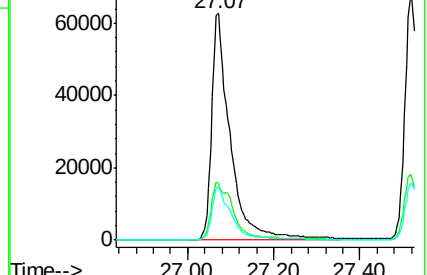
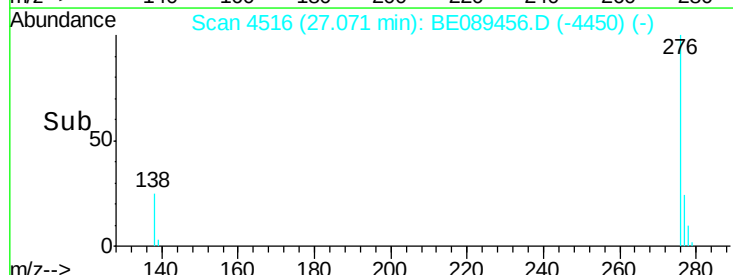
277 24.9 19.0 28.4

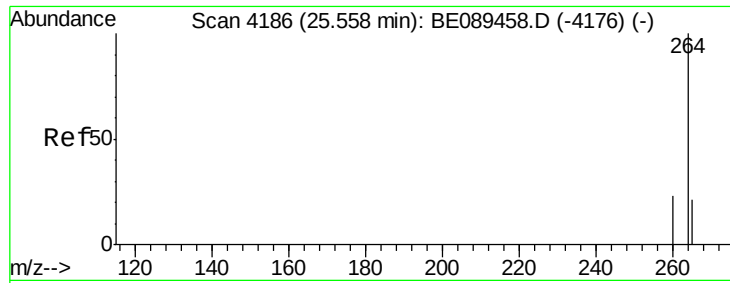


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

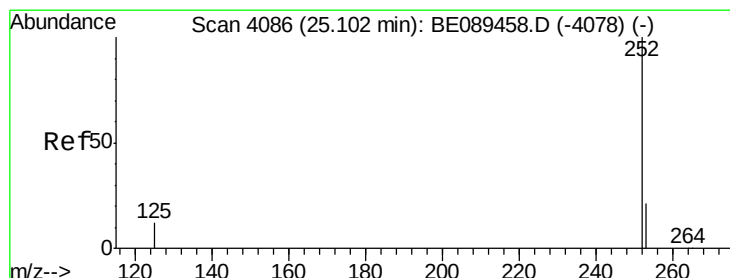
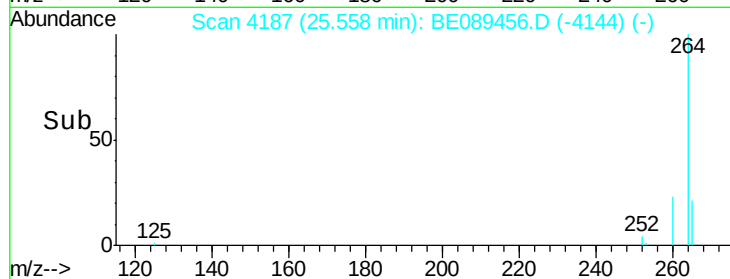
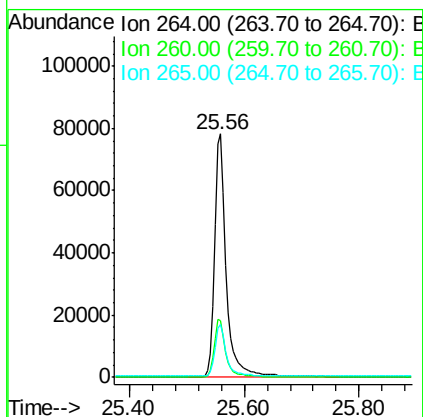
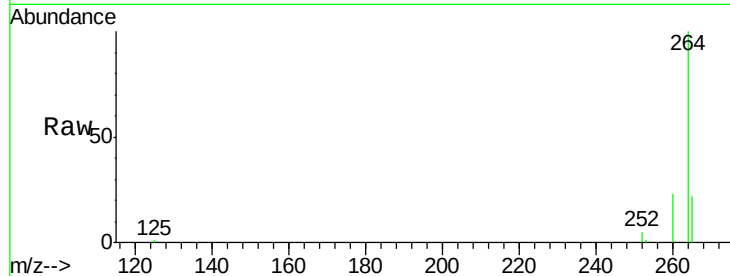




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.56 min Scan# 4187
 Delta R.T. 0.00 min
 Lab File: BE089456.D
 Acq: 2 Feb 2015 15:14

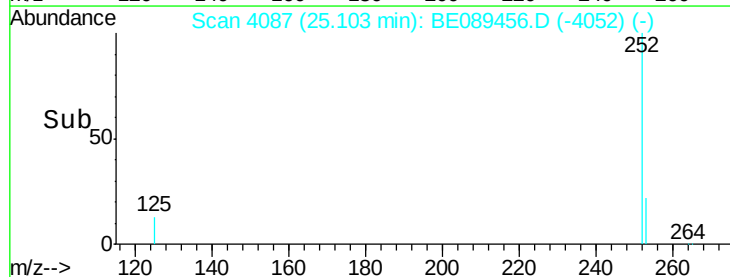
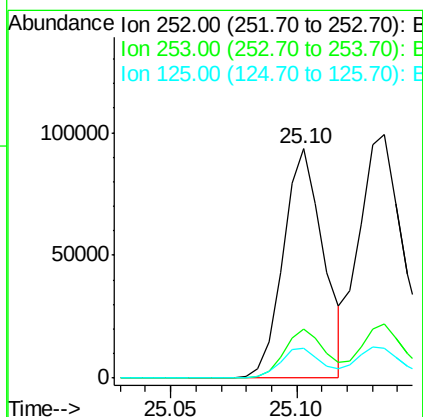
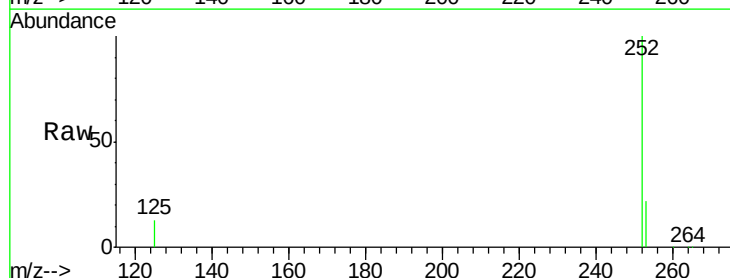
Instrument :
 BNA_E
 LabSampleId :
 SSTDICC005

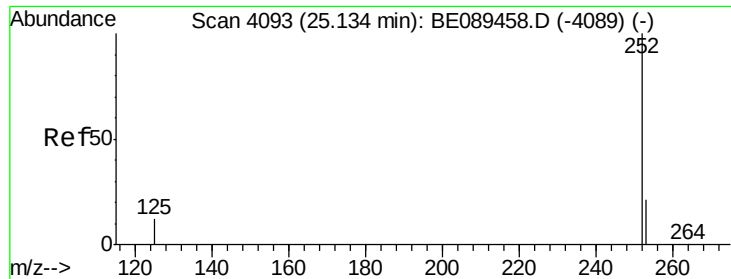
Tgt Ion: 264 Resp: 113154
 Ion Ratio Lower Upper
 264 100
 260 23.4 18.7 28.1
 265 21.9 17.0 25.6



#28
Benzo(b)fluoranthene
 Concen: 10.13 ng
 RT: 25.10 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: BE089456.D
 Acq: 2 Feb 2015 15:14

Tgt Ion: 252 Resp: 103148
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.4 26.0
 125 12.8 10.4 15.6





#29

Benzo(k)fluoranthene

Concen: 4.76 ng

RT: 25.13 min Scan# 4094

Delta R.T. 0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005

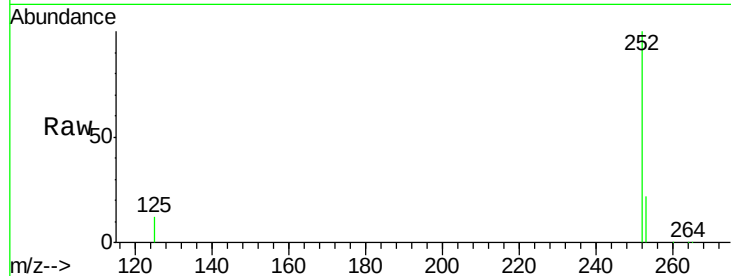
Tgt Ion:252 Resp: 145831

Ion Ratio Lower Upper

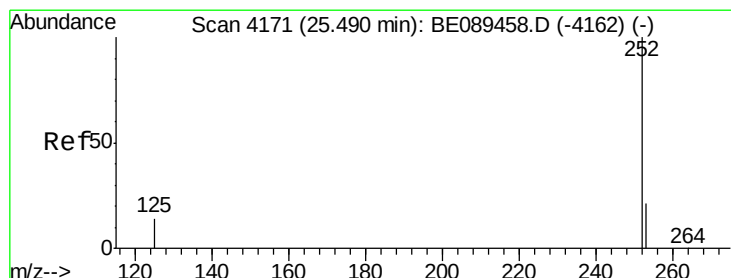
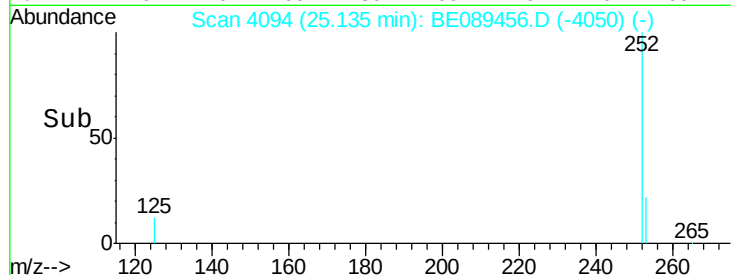
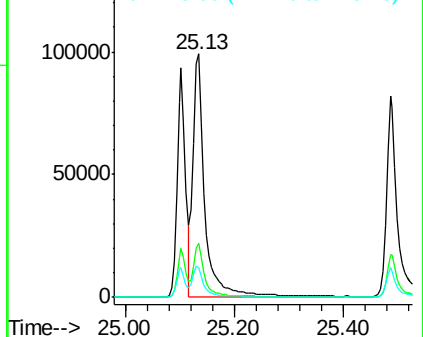
252 100

253 22.0 17.5 26.3

125 12.4 10.3 15.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#30

Benzo(a)pyrene

Concen: 8.31 ng

RT: 25.49 min Scan# 4171

Delta R.T. -0.00 min

Lab File: BE089456.D

Acq: 2 Feb 2015 15:14

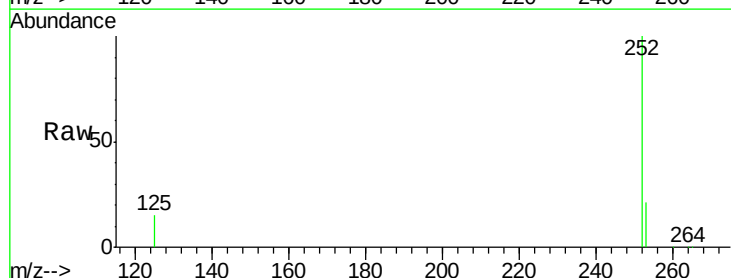
Tgt Ion:252 Resp: 114249

Ion Ratio Lower Upper

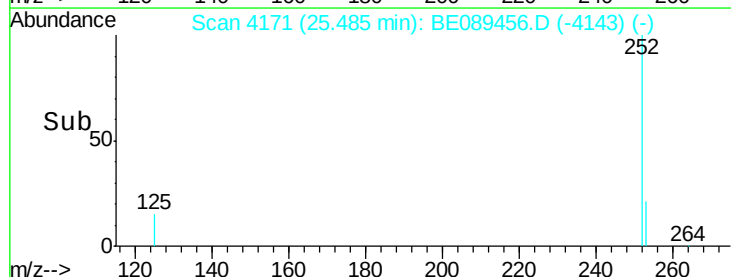
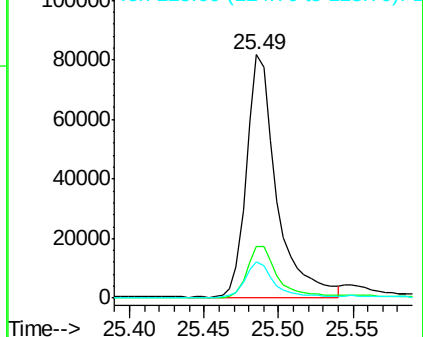
252 100

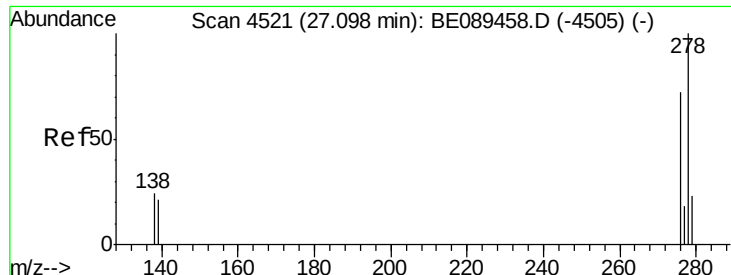
253 21.0 17.5 26.3

125 14.8 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





#31

Dibenzo(a,h)anthracene

Concen: 12.22 ng

RT: 27.10 min Scan# 4522

Delta R.T. 0.00 min

Lab File: BE089456.D

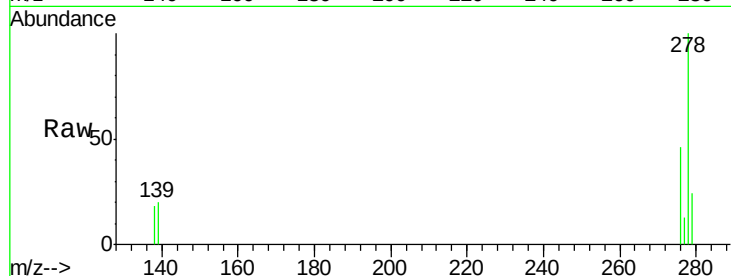
Acq: 2 Feb 2015 15:14

Instrument :

BNA_E

LabSampleId :

SSTDIC005



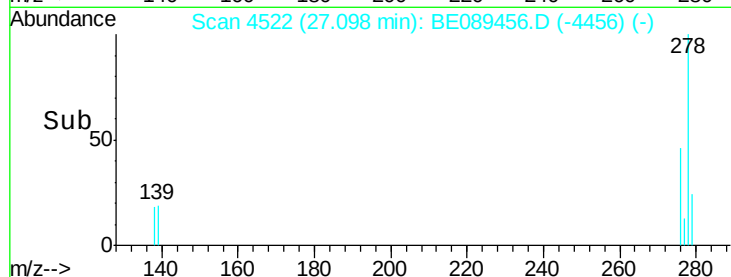
Tgt Ion: 278 Resp: 164529

Ion Ratio Lower Upper

278 100

139 19.5 17.1 25.7

279 23.8 18.8 28.2



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

