

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022615\
 Data File : BE089708.D
 Acq On : 27 Feb 2015 2:43
 Operator : TP/JJ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE022615

Quant Time: Feb 27 05:23:38 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE022615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 27 05:11:47 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.33	152	48545	5.00	ng	0.00
7) Naphthalene-d8	12.23	136	206581	5.00	ng	0.00
13) Acenaphthene-d10	16.40	164	94957	5.00	ng	0.00
17) Phenanthrene-d10	19.76	188	176653	5.00	ng	0.00
20) Chrysene-d12	23.65	240	149230	5.00	ng	0.00
27) Perylene-d12	25.34	264	118051	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.49	112	12634	1.08	ng	0.00
4) Phenol-d6	8.61	99	16981	1.06	ng	0.00
8) Nitrobenzene-d5	10.60	82	11153	1.00	ng	0.00
14) 2,4,6-Tribromophenol	18.31	330	886	0.93	ng	0.00
15) 2-Fluorobiphenyl	14.87	172	22786	1.07	ng	0.00
22) Terphenyl-d14	22.30	244	23178	1.28	ng	0.00

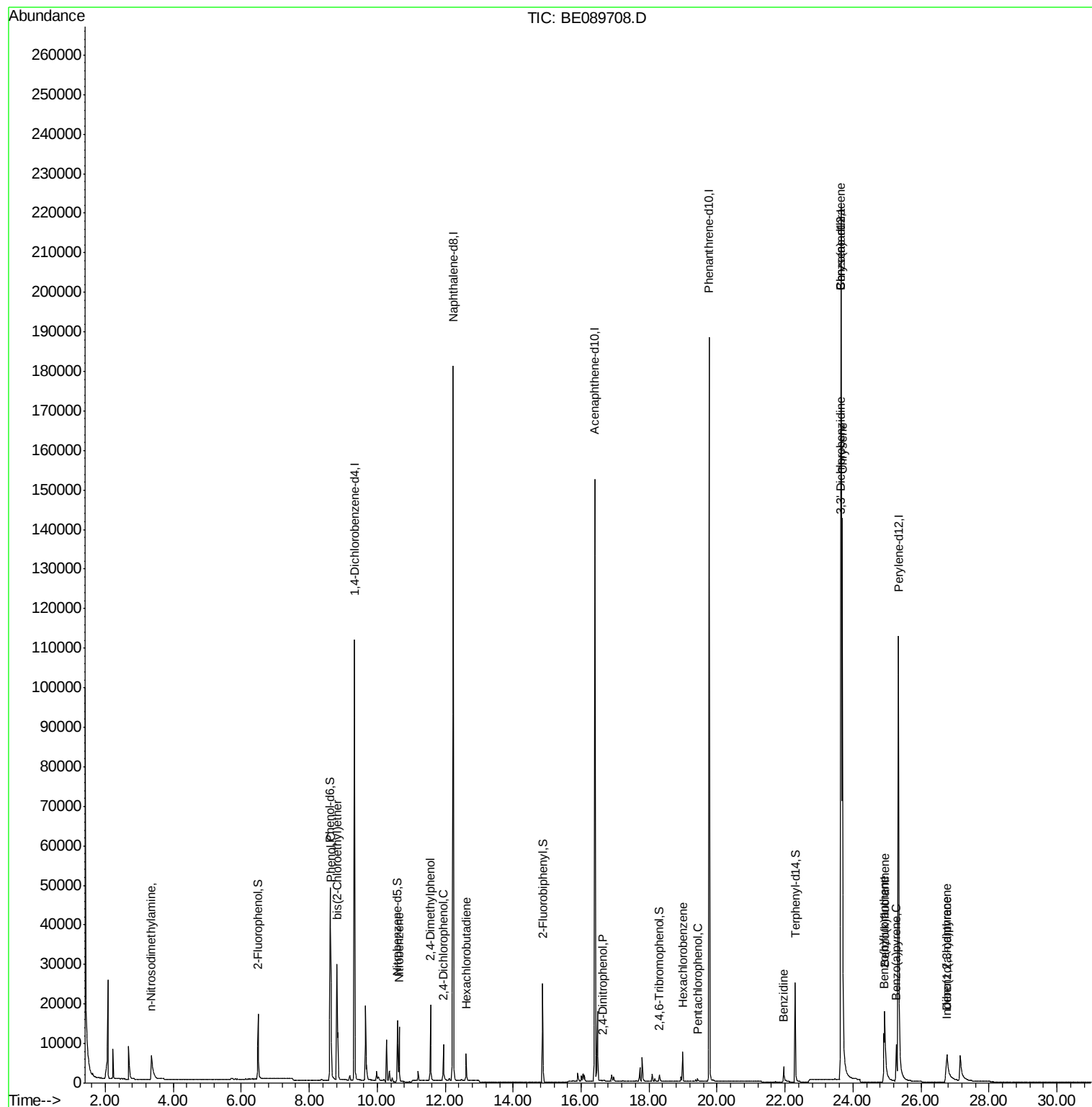
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.35	42	7062	1.00	ng	95
5) Phenol	8.63	94	18671	1.07	ng	# 20
6) bis(2-Chloroethyl)ether	8.82	93	14642	1.07	ng	# 98
9) Nitrobenzene	10.64	77	13134	1.08	ng	99
10) 2,4-Dimethylphenol	11.57	122	10125	1.07	ng	99
11) 2,4-Dichlorophenol	11.95	162	7384	1.07	ng	99
12) Hexachlorobutadiene	12.62	225	4157	1.06	ng	99
16) 2,4-Dinitrophenol	16.65	184	224	1.02	ng	85
18) Hexachlorobenzene	18.98	284	4816	1.05	ng	97
19) Pentachlorophenol	19.43	266	602	0.94	ng	97
21) Benzidine	21.96	184	5905	0.92	ng	99
23) Benzo(a)anthracene	23.64	228	110638	1.04	ng	# 92
24) 3,3'-Dichlorobenzidine	23.63	252	5247	0.95	ng	100
25) Chrysene	23.68	228	140165	1.07	ng	99
26) Indeno(1,2,3-cd)pyrene	26.74	276	15533	0.96	ng	# 48
28) Benzo(b)fluoranthene	24.91	252	11667	0.92	ng	99
29) Benzo(k)fluoranthene	24.93	252	32425	1.09	ng	99
30) Benzo(a)pyrene	25.27	252	13251	0.95	ng	99
31) Dibenzo(a,h)anthracene	26.77	278	11576	0.95	ng	97

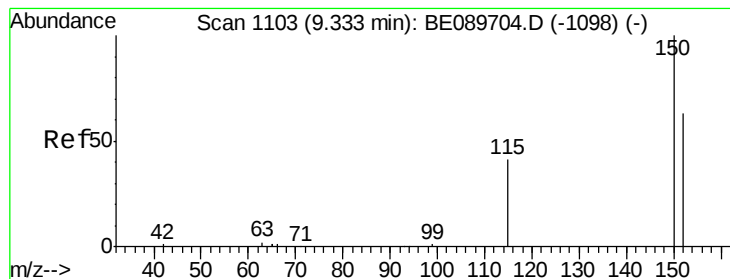
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.33 min Scan# 1103

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

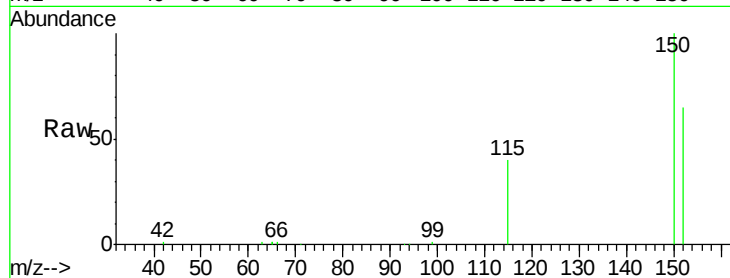
Tgt Ion:152 Resp: 48545

Ion Ratio Lower Upper

152 100

150 154.1 127.3 190.9

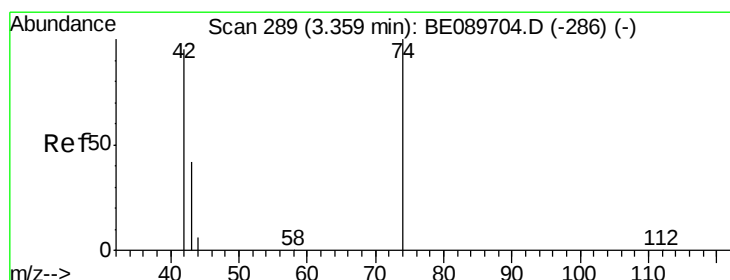
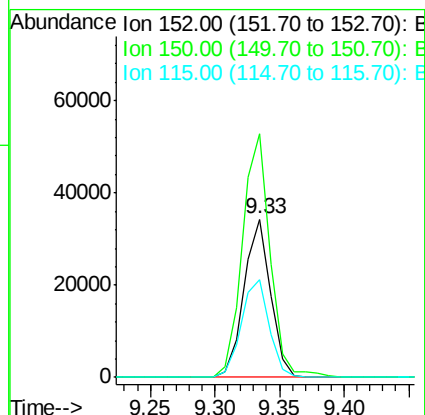
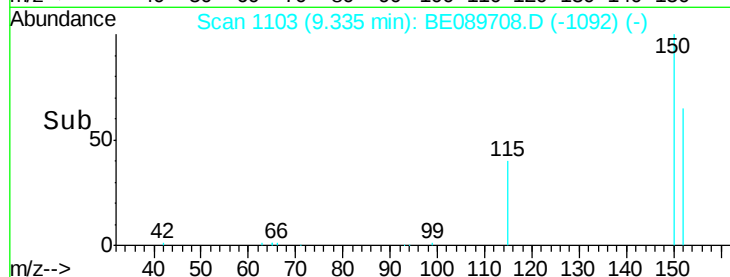
115 62.1 52.0 78.0



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: 1.00 ng

RT: 3.35 min Scan# 288

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

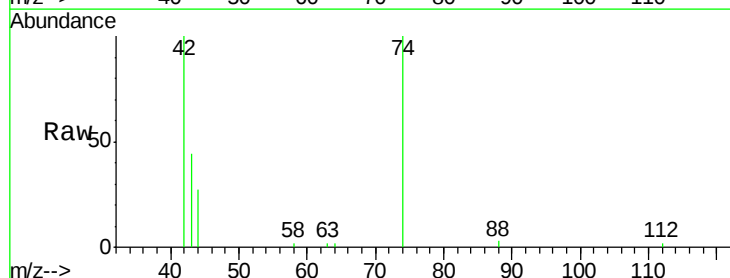
Tgt Ion: 42 Resp: 7062

Ion Ratio Lower Upper

42 100

74 100.1 83.8 125.8

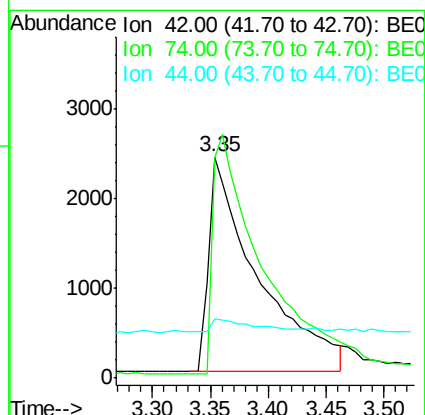
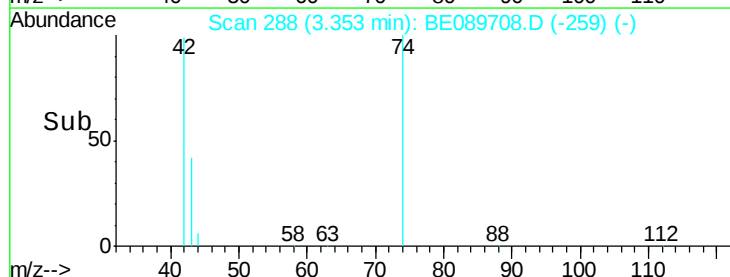
44 27.1 19.0 28.6

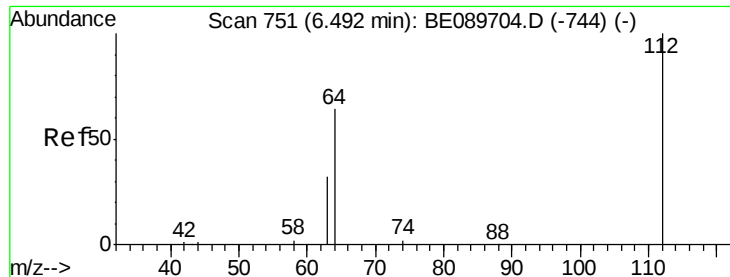


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

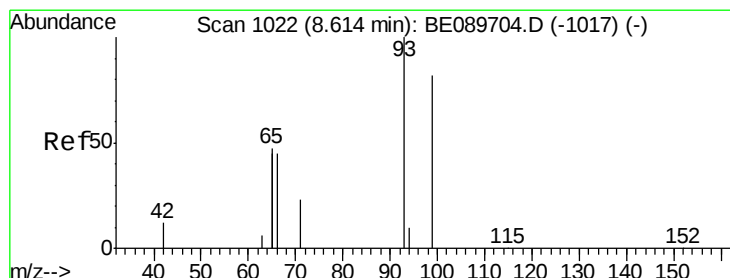
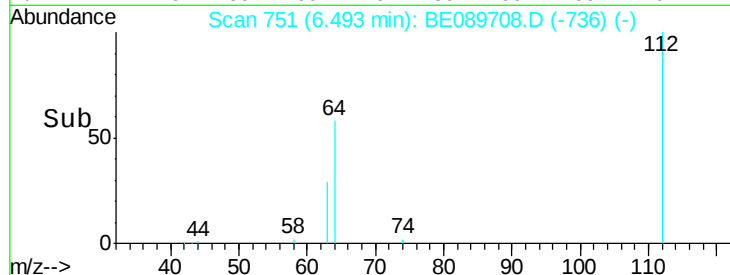
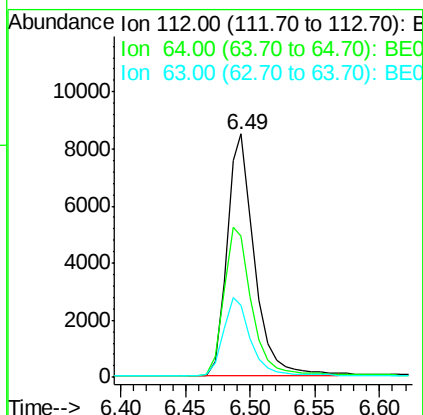
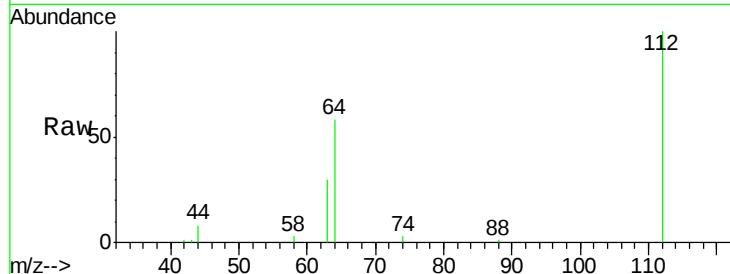




#3
 2-Fluorophenol
 Concen: 1.08 ng
 RT: 6.49 min Scan# 751
 Delta R.T. 0.00 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

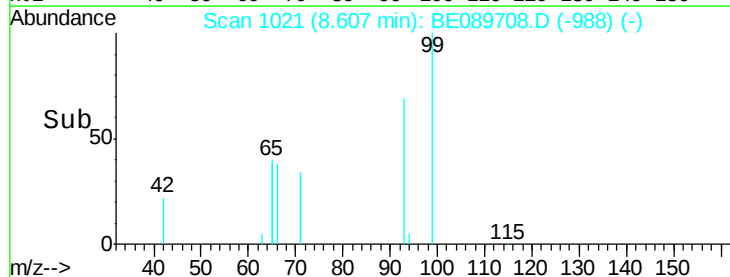
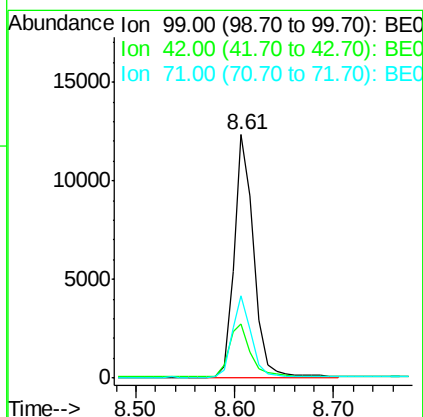
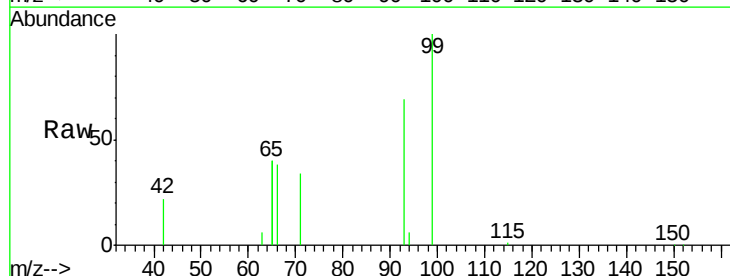
Instrument :
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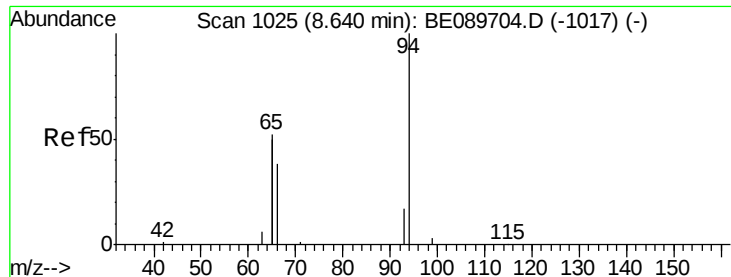
Tgt Ion: 112 Resp: 12634
 Ion Ratio Lower Upper
 112 100
 64 58.2 51.3 76.9
 63 29.6 26.2 39.2



#4
 Phenol-d6
 Concen: 1.06 ng
 RT: 8.61 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

Tgt Ion: 99 Resp: 16981
 Ion Ratio Lower Upper
 99 100
 42 22.1 12.3 18.5#
 71 34.0 22.9 34.3





#5

Phenol

Concen: 1.07 ng

RT: 8.63 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

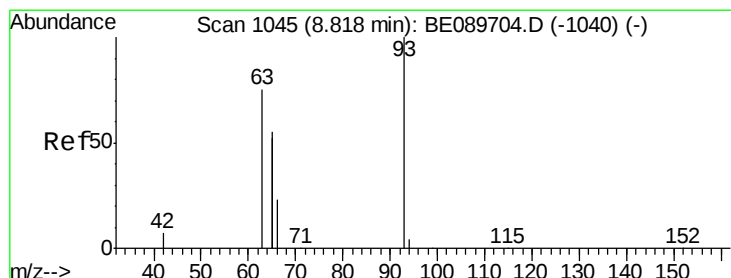
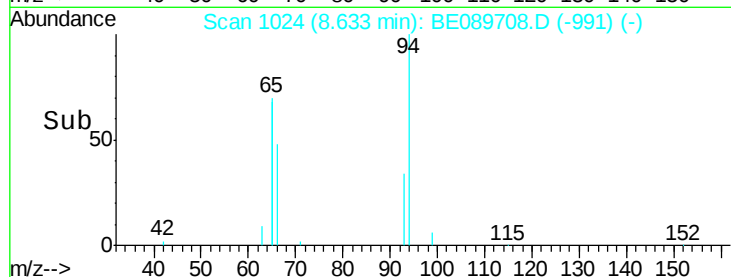
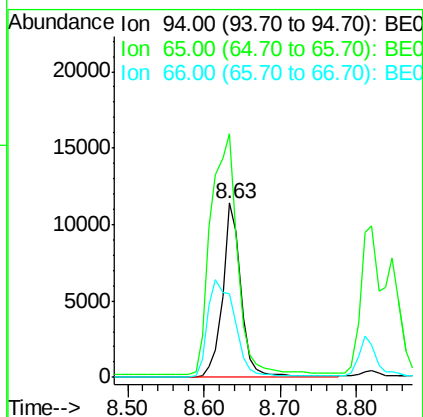
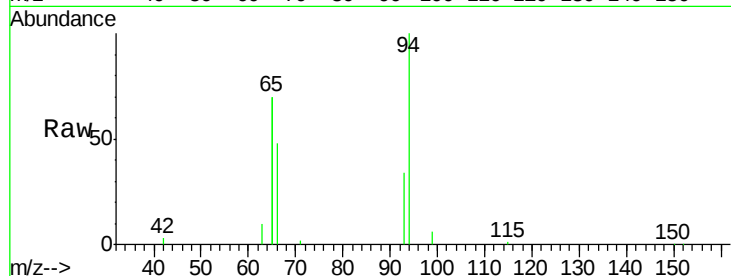
Tgt Ion: 94 Resp: 18671

Ion Ratio Lower Upper

94 100

65 139.8 31.7 71.7#

66 48.4 17.9 57.9



#6

bis(2-Chloroethyl)ether

Concen: 1.07 ng

RT: 8.82 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

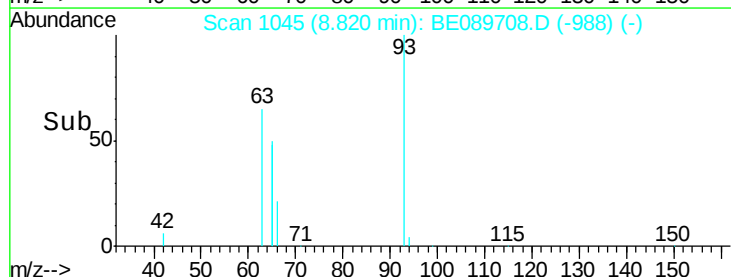
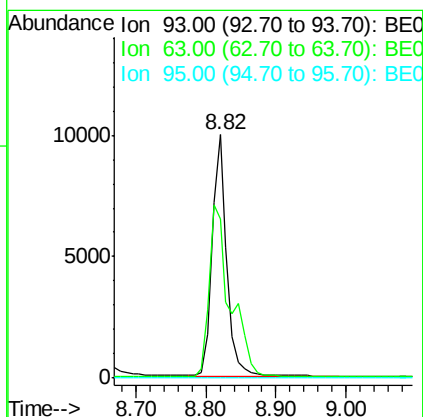
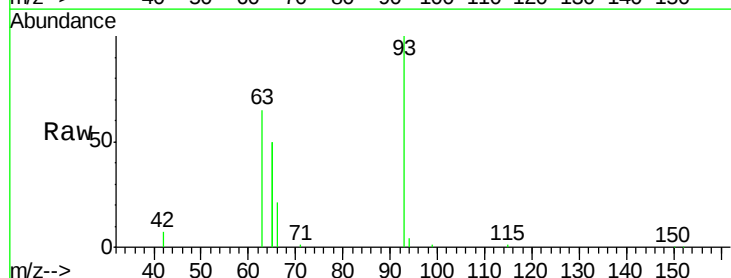
Tgt Ion: 93 Resp: 14642

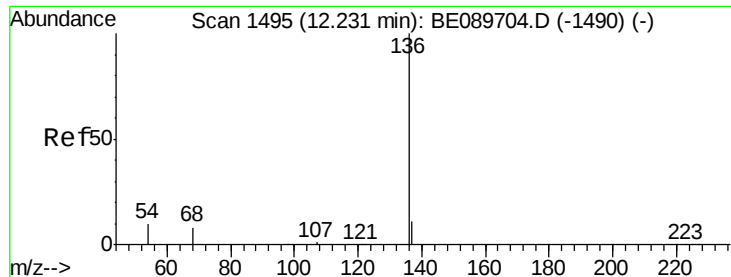
Ion Ratio Lower Upper

93 100

63 102.7 83.8 125.8

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.23 min Scan# 1495

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

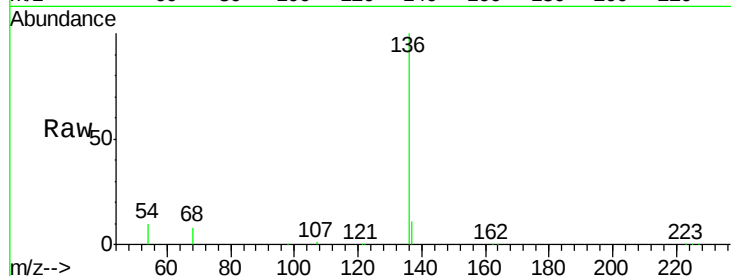
Tgt Ion: 136 Resp: 206581

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

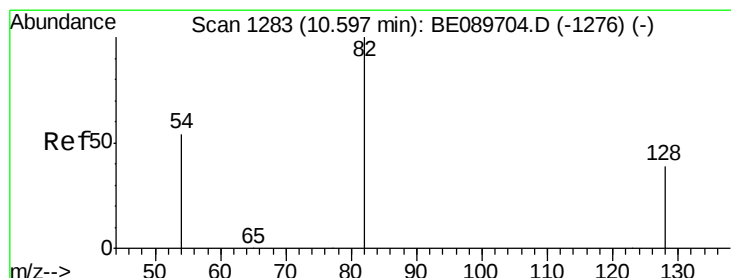
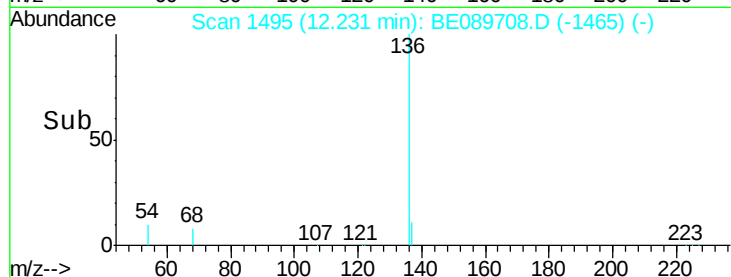
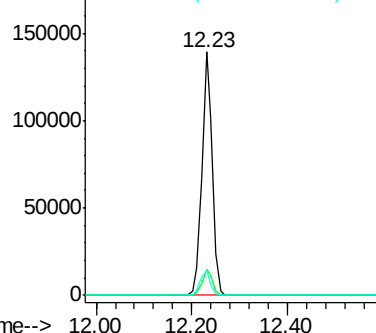
54 10.1 8.1 12.1



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: 1.00 ng

RT: 10.60 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

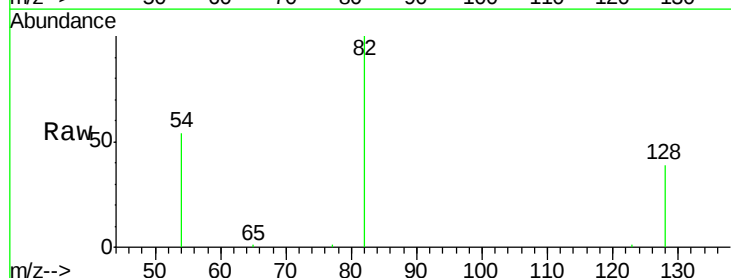
Tgt Ion: 82 Resp: 11153

Ion Ratio Lower Upper

82 100

128 38.8 31.4 47.2

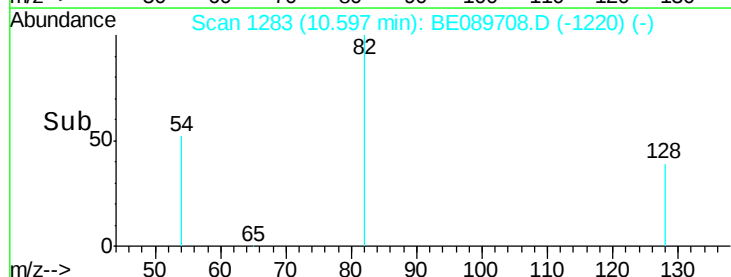
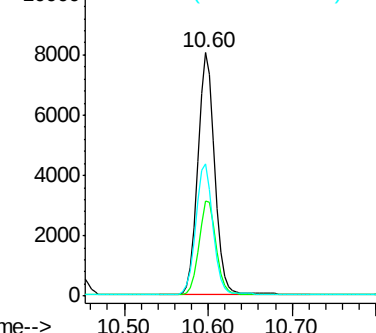
54 54.2 43.8 65.8

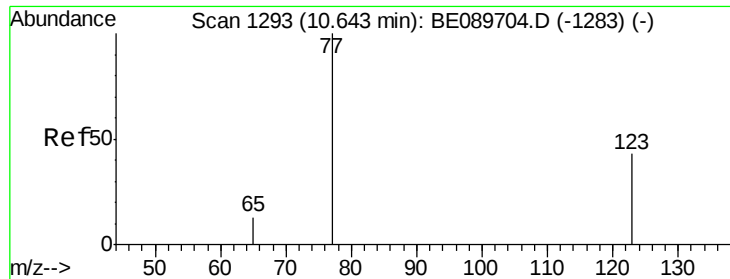


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 1.08 ng

RT: 10.64 min Scan# 1292

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

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ICVBE022615

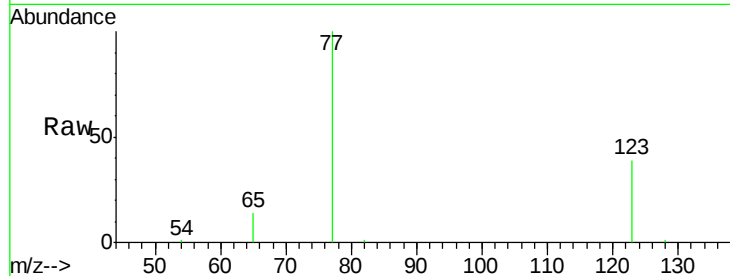
Tgt Ion: 77 Resp: 13134

Ion Ratio Lower Upper

77 100

123 41.8 33.2 49.8

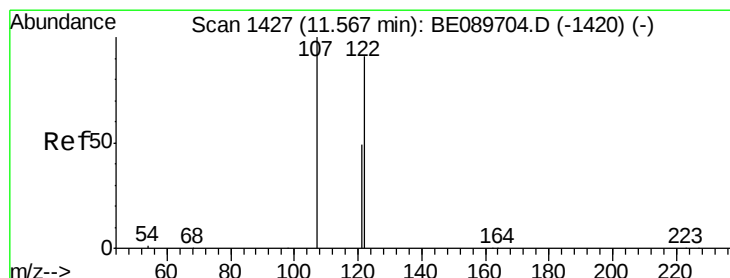
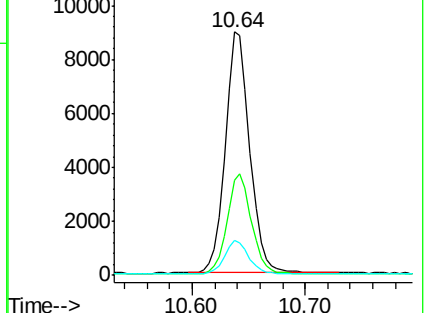
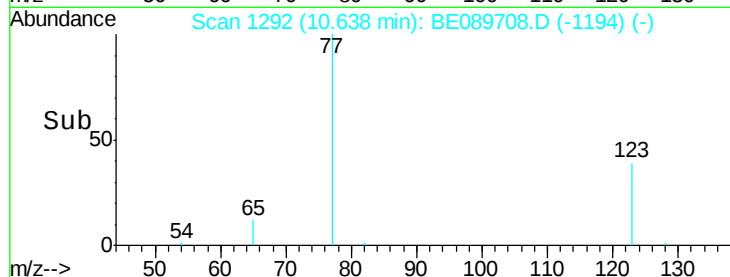
65 13.4 10.6 15.8



Abundance Ion 77.00 (76.70 to 77.70): BE089708.D (-1194) (-)

Ion 123.00 (122.70 to 123.70): BE089708.D (-1194) (-)

Ion 65.00 (64.70 to 65.70): BE089708.D (-1194) (-)



#10

2,4-Dimethylphenol

Concen: 1.07 ng

RT: 11.57 min Scan# 1427

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

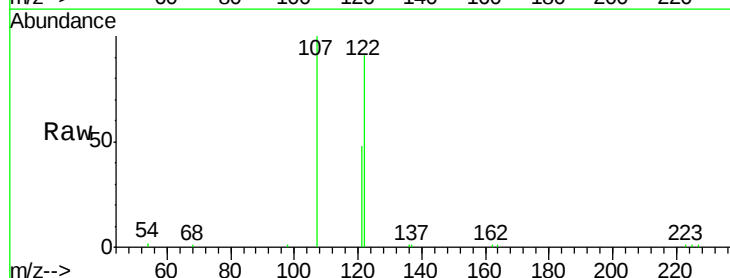
Tgt Ion: 122 Resp: 10125

Ion Ratio Lower Upper

122 100

107 110.1 87.6 131.4

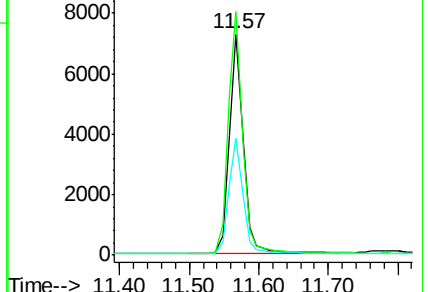
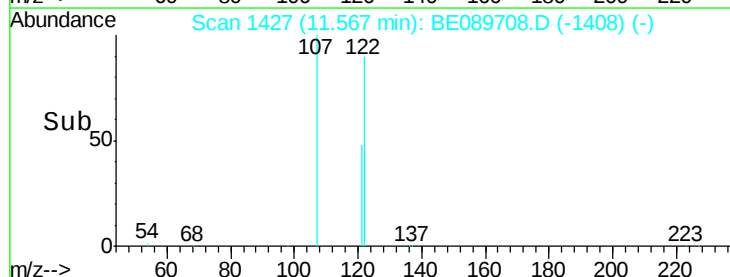
121 53.1 43.4 65.2

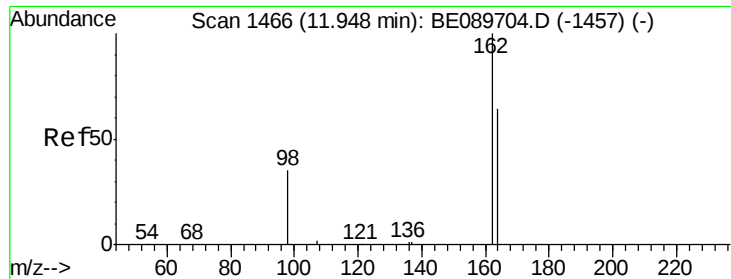


Abundance Ion 122.00 (121.70 to 122.70): BE089708.D (-1408) (-)

Ion 107.00 (106.70 to 107.70): BE089708.D (-1408) (-)

Ion 121.00 (120.70 to 121.70): BE089708.D (-1408) (-)

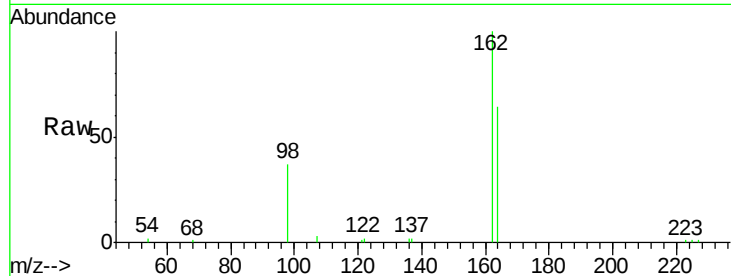




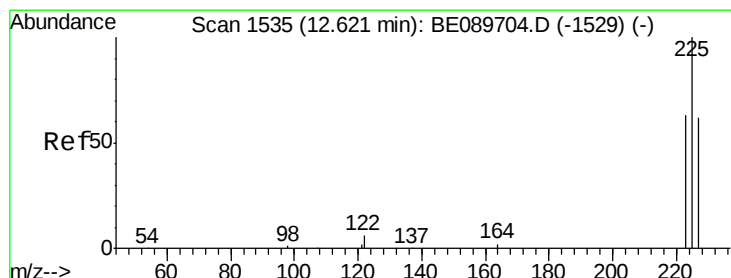
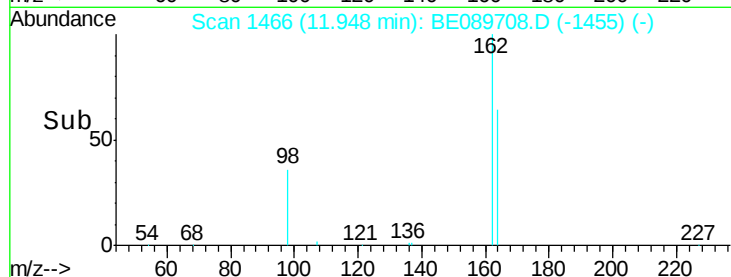
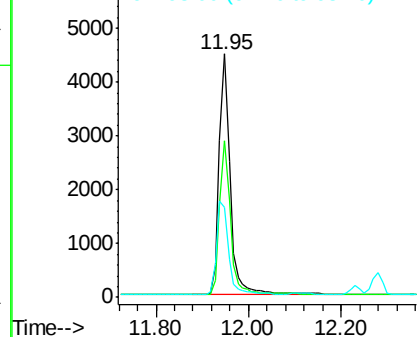
#11
 2,4-Dichlorophenol
 Concen: 1.07 ng
 RT: 11.95 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

Instrument :
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Tgt Ion:162 Resp: 7384
 Ion Ratio Lower Upper
 162 100
 164 64.4 43.9 83.9
 98 36.9 15.7 55.7

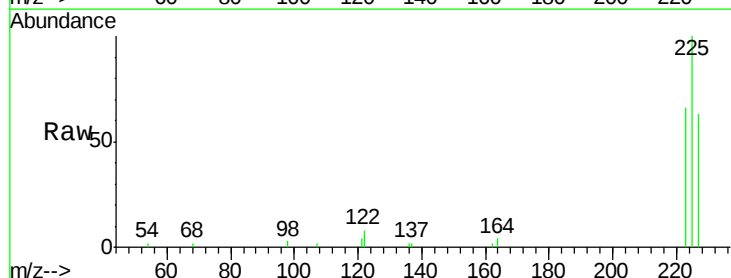


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BE0

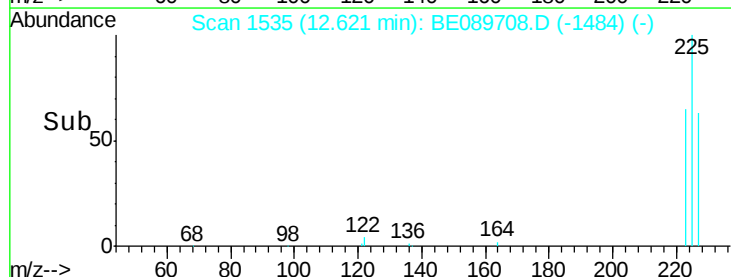
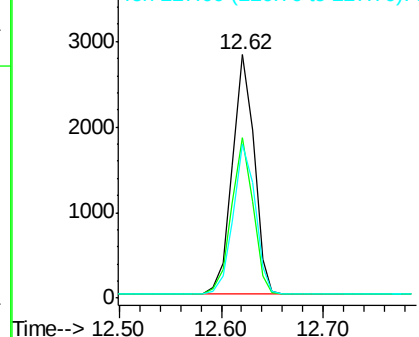


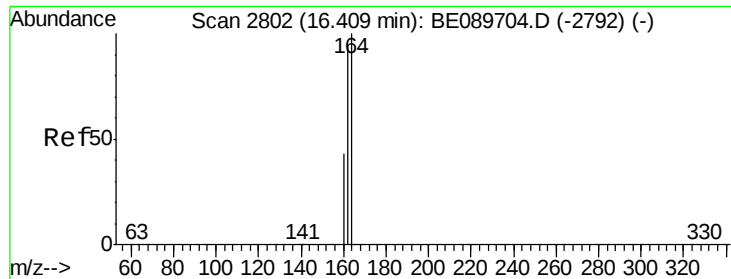
#12
 Hexachlorobutadiene
 Concen: 1.06 ng
 RT: 12.62 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

Tgt Ion:225 Resp: 4157
 Ion Ratio Lower Upper
 225 100
 223 64.1 50.6 75.8
 227 63.5 50.8 76.2



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: 16.40 min Scan# 2801

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

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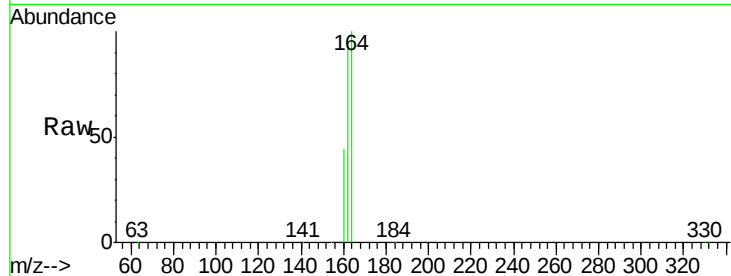
Tgt Ion:164 Resp: 94957

Ion Ratio Lower Upper

164 100

162 94.6 75.0 112.6

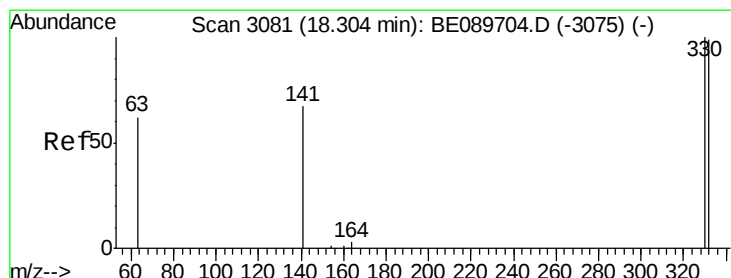
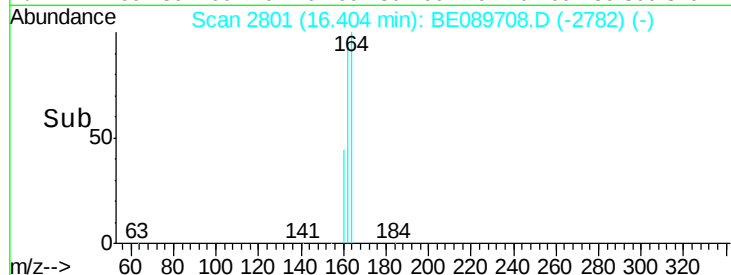
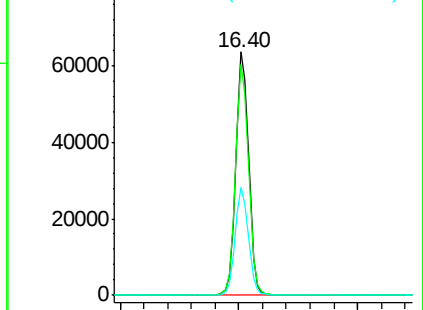
160 44.4 34.3 51.5



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: 0.93 ng

RT: 18.31 min Scan# 3081

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

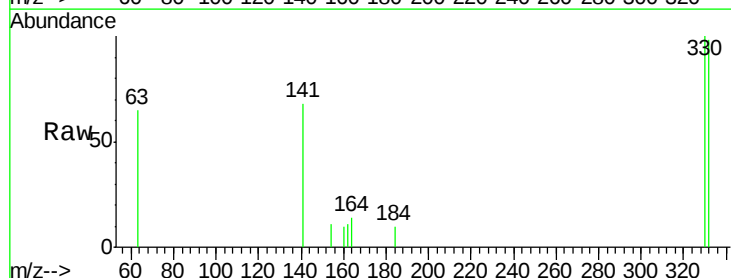
Tgt Ion:330 Resp: 886

Ion Ratio Lower Upper

330 100

332 99.3 0.0 0.0#

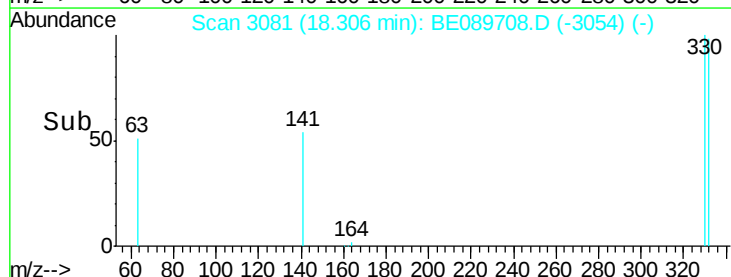
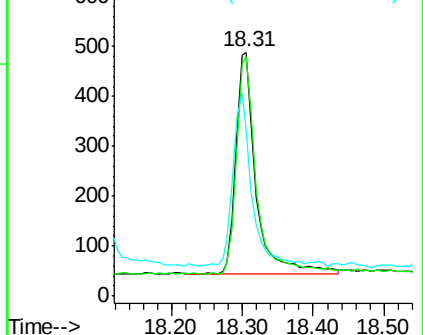
141 72.3 0.0 0.0#

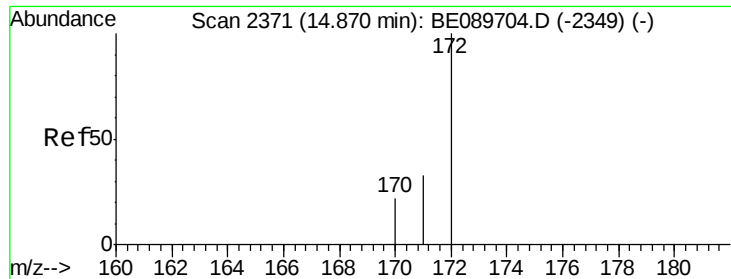


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

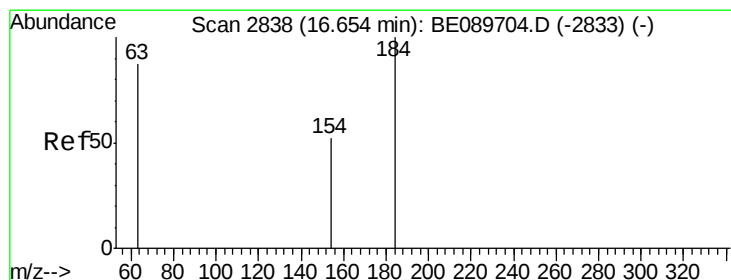
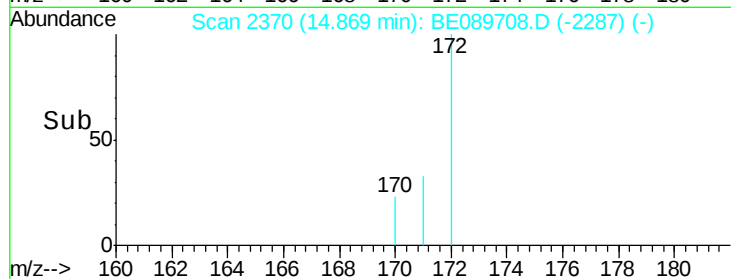
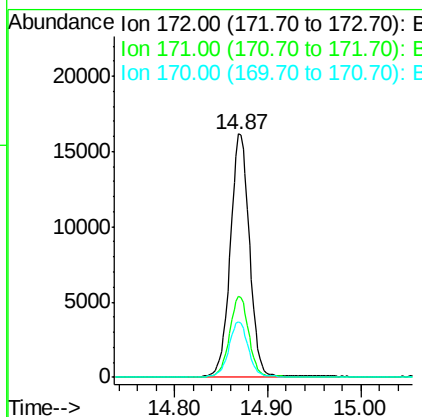
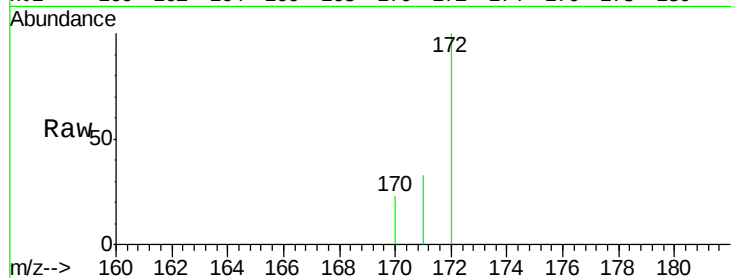




#15
2-Fluorobiphenyl
Concen: 1.07 ng
RT: 14.87 min Scan# 2370
Delta R.T. -0.00 min
Lab File: BE089708.D
Acq: 27 Feb 2015 2:43

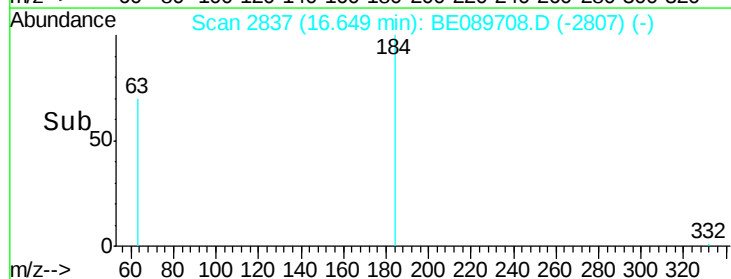
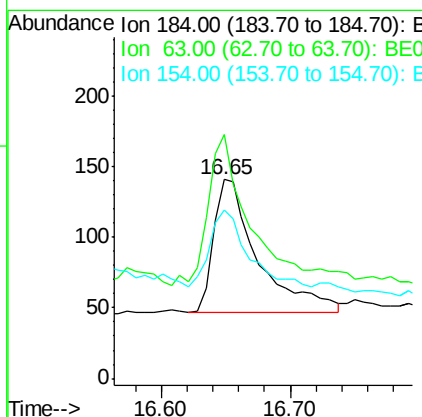
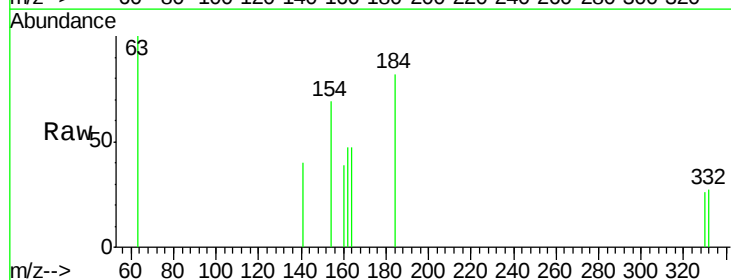
Instrument :
BNA_E
ClientSampleId :
ICVBE022615

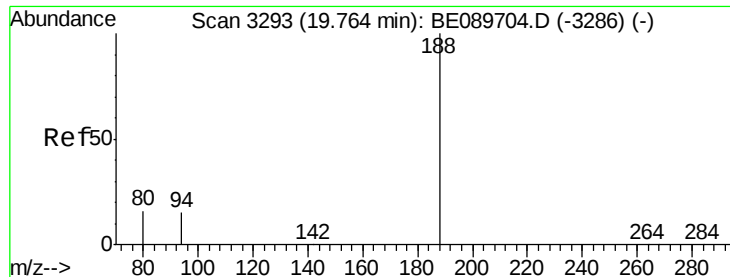
Tgt Ion:172 Resp: 22786
Ion Ratio Lower Upper
172 100
171 33.4 26.8 40.2
170 22.9 18.0 27.0



#16
2,4-Dinitrophenol
Concen: 1.02 ng
RT: 16.65 min Scan# 2837
Delta R.T. -0.00 min
Lab File: BE089708.D
Acq: 27 Feb 2015 2:43

Tgt Ion:184 Resp: 224
Ion Ratio Lower Upper
184 100
63 122.7 82.4 123.6
154 84.4 61.4 92.2

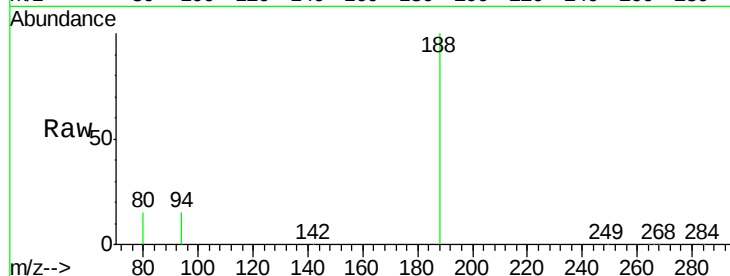




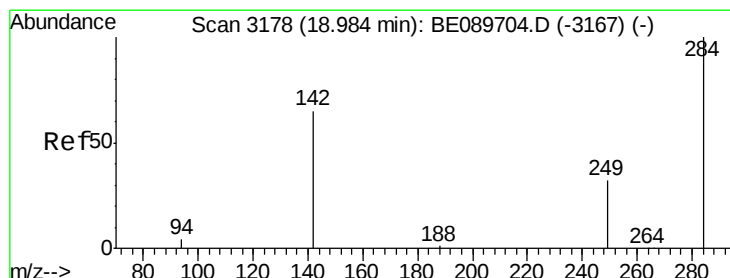
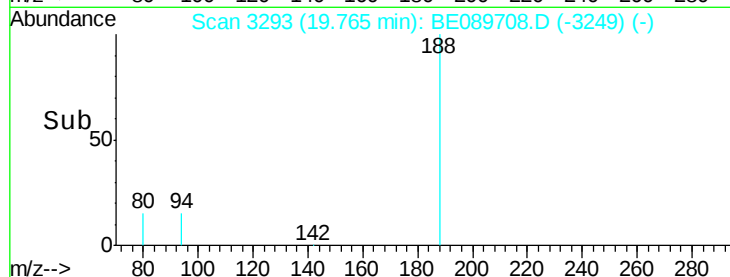
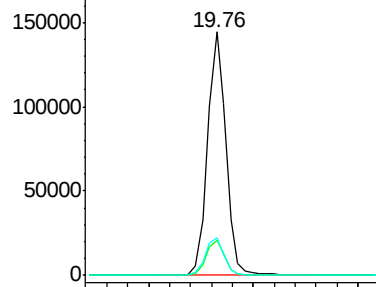
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3293
Delta R.T. 0.00 min
Lab File: BE089708.D
Acq: 27 Feb 2015 2:43

Instrument :
BNA_E
ClientSampleId :
ICVBE022615

Tgt Ion	Ratio	Lower	Upper
188	100		
94	14.6	12.1	18.1
80	15.4	12.7	19.1

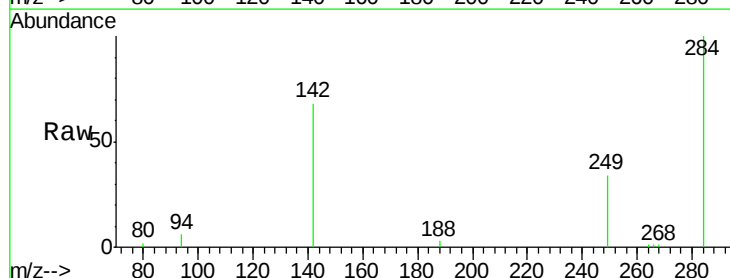


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

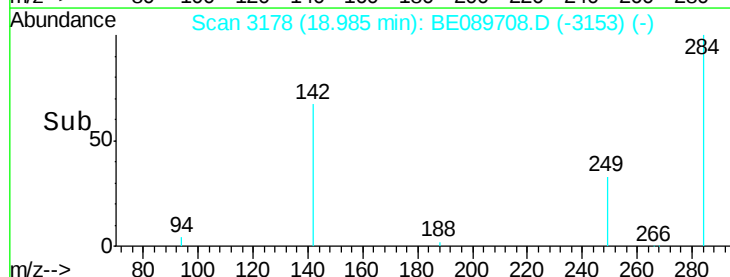
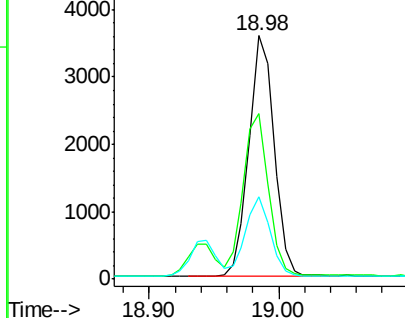


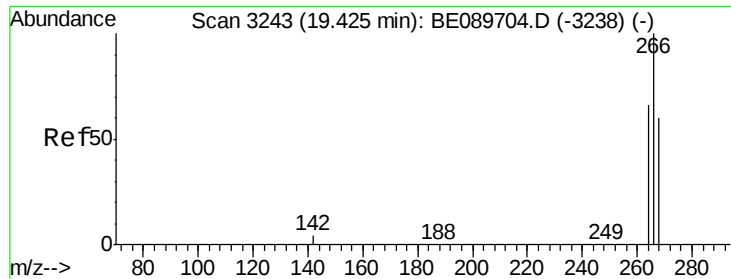
#18
Hexachlorobenzene
Concen: 1.05 ng
RT: 18.98 min Scan# 3178
Delta R.T. 0.00 min
Lab File: BE089708.D
Acq: 27 Feb 2015 2:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	68.0	52.2	78.4
249	34.1	26.4	39.6



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: 0.94 ng

RT: 19.43 min Scan# 3243

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

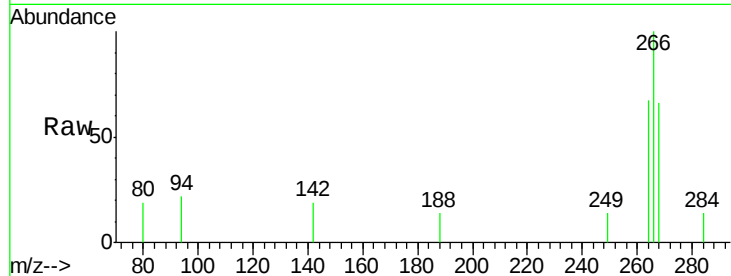
Tgt Ion:266 Resp: 602

Ion Ratio Lower Upper

266 100

268 66.3 51.4 77.2

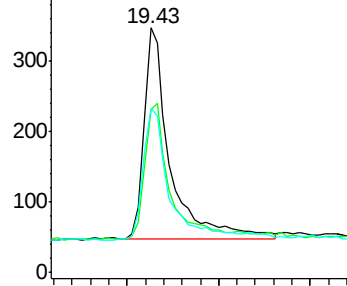
264 66.9 55.8 83.8



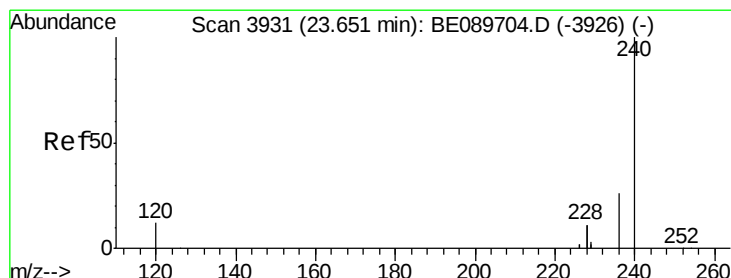
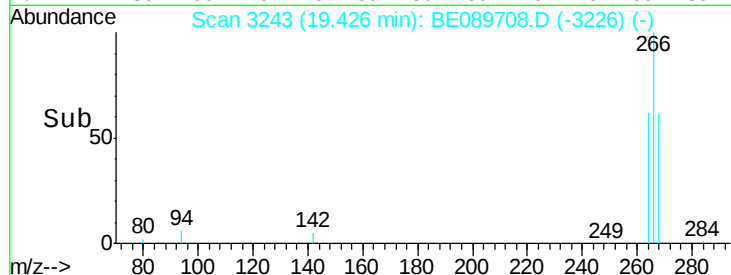
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time-->



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3930

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

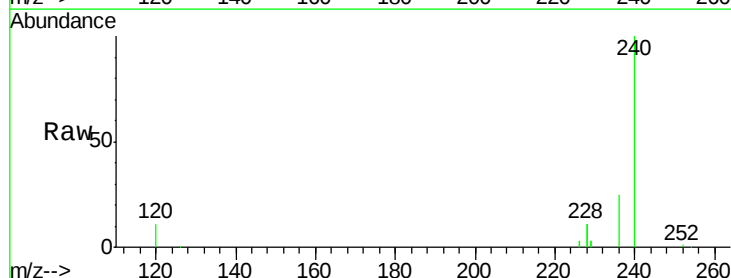
Tgt Ion:240 Resp: 149230

Ion Ratio Lower Upper

240 100

120 10.7 9.9 14.9

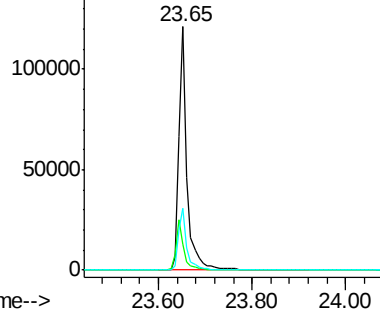
236 25.5 21.0 31.6



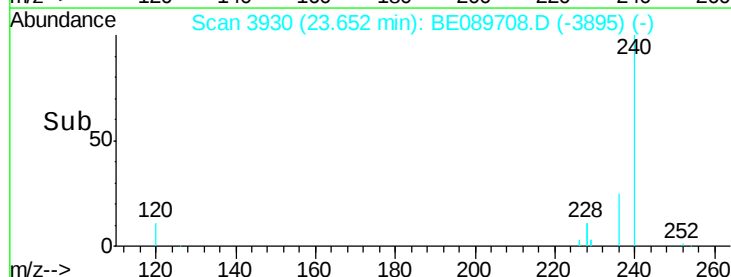
Abundance Ion 240.00 (239.70 to 240.70): E

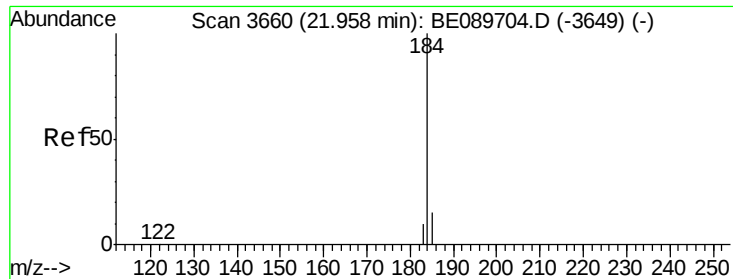
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





#21

Benzidine

Concen: 0.92 ng

RT: 21.96 min Scan# 3659

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

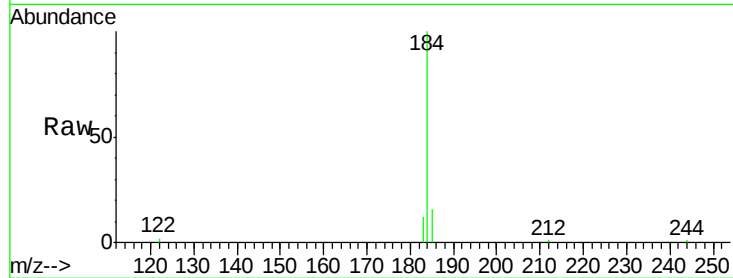
Tgt Ion:184 Resp: 5905

Ion Ratio Lower Upper

184 100

185 15.7 12.8 19.2

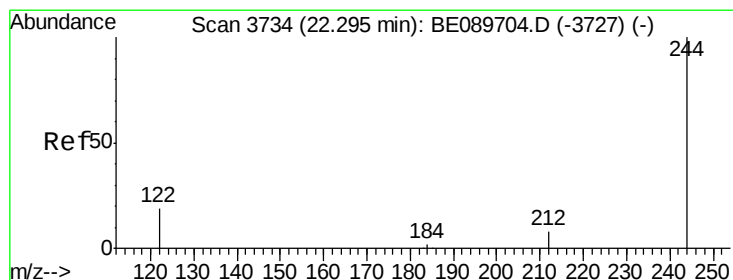
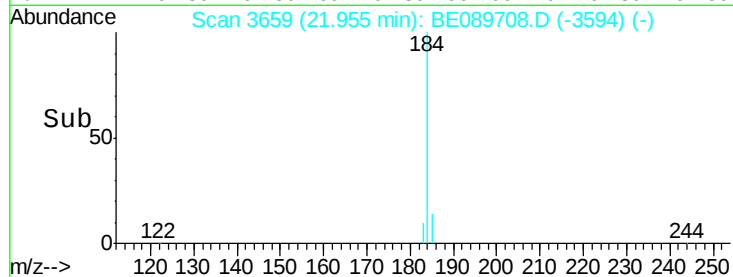
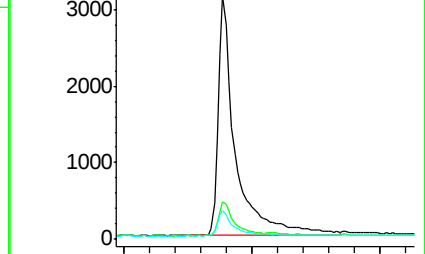
183 11.7 8.8 13.2



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: 1.28 ng

RT: 22.30 min Scan# 3734

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

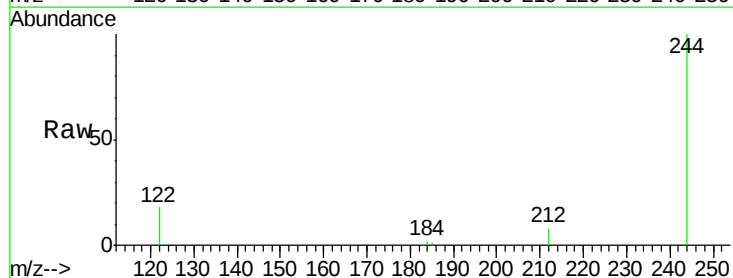
Tgt Ion:244 Resp: 23178

Ion Ratio Lower Upper

244 100

212 8.1 6.7 10.1

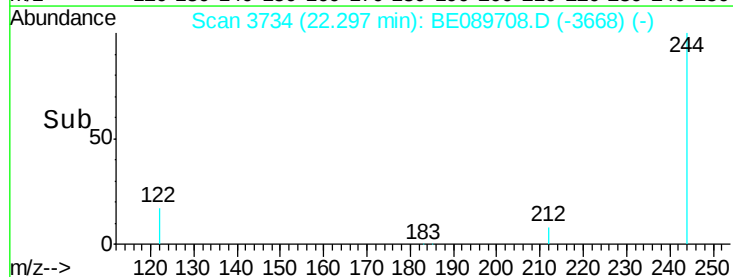
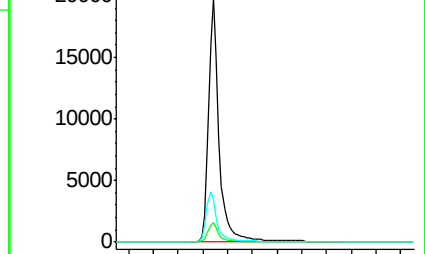
122 17.6 15.7 23.5

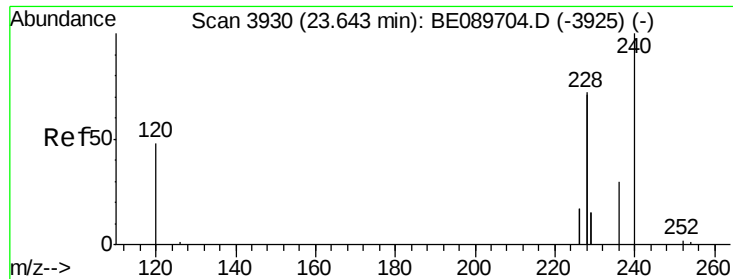


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 1.04 ng

RT: 23.64 min Scan# 3928

Delta R.T. -0.01 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

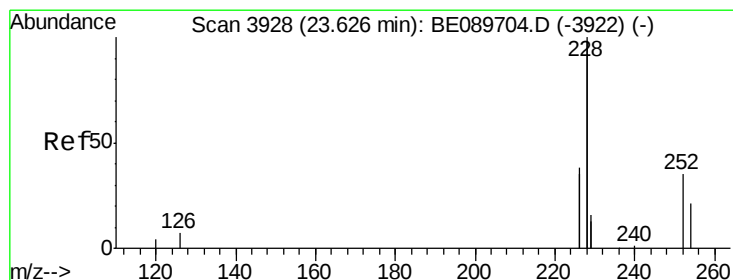
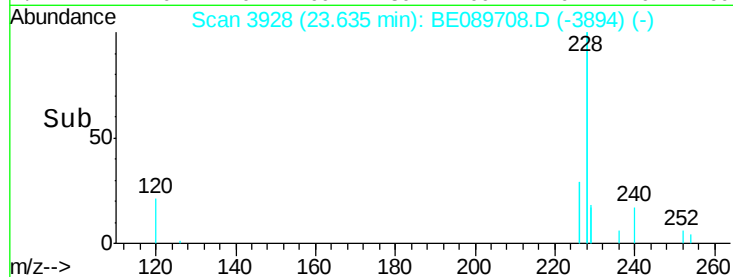
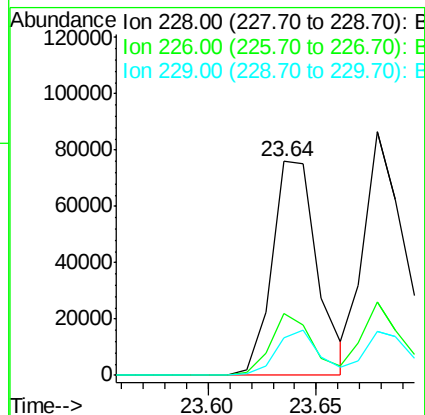
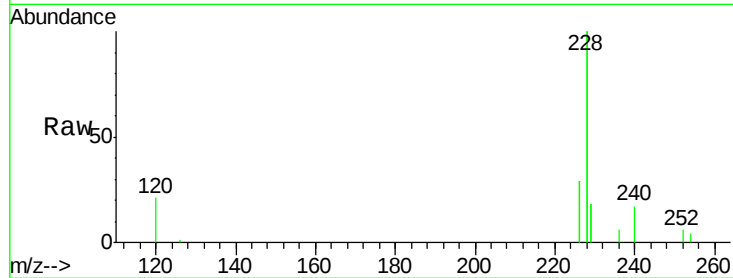
Tgt Ion:228 Resp: 110638

Ion Ratio Lower Upper

228 100

226 29.1 19.3 28.9#

229 17.7 16.6 25.0



#24

3,3'-Dichlorobenzidine

Concen: 0.95 ng

RT: 23.63 min Scan# 3927

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

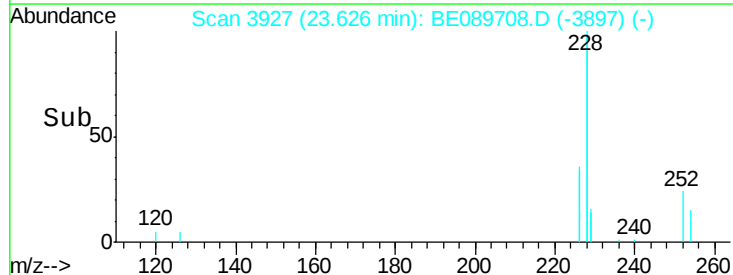
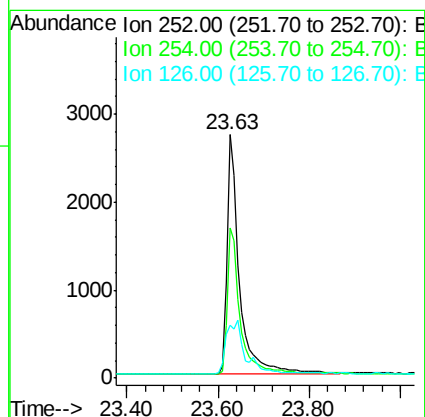
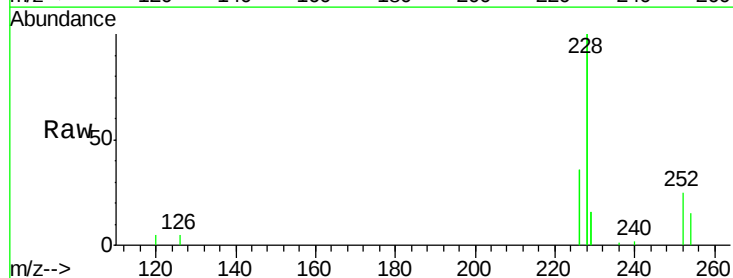
Tgt Ion:252 Resp: 5247

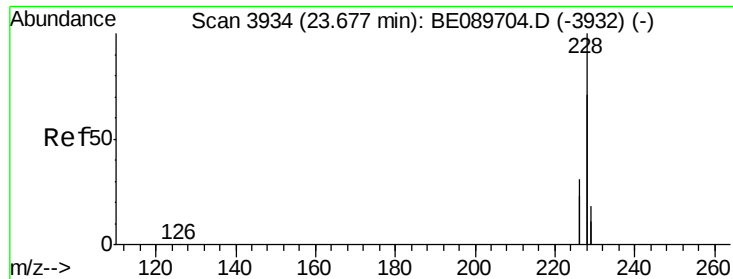
Ion Ratio Lower Upper

252 100

254 61.9 49.4 74.2

126 21.8 17.4 26.2





#25

Chrysene

Concen: 1.07 ng

RT: 23.68 min Scan# 3933

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

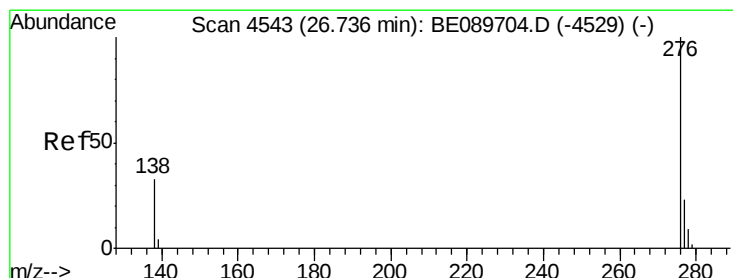
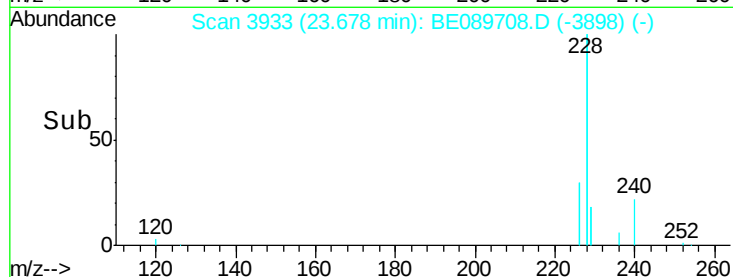
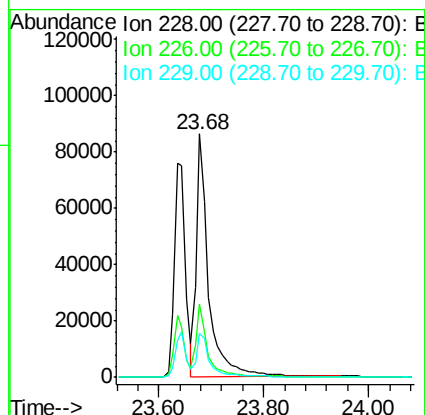
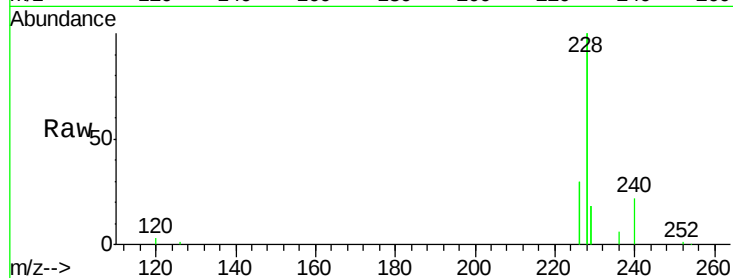
Tgt Ion: 228 Resp: 140165

Ion Ratio Lower Upper

228 100

226 30.3 24.7 37.1

229 18.2 14.4 21.6



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.96 ng

RT: 26.74 min Scan# 4542

Delta R.T. 0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

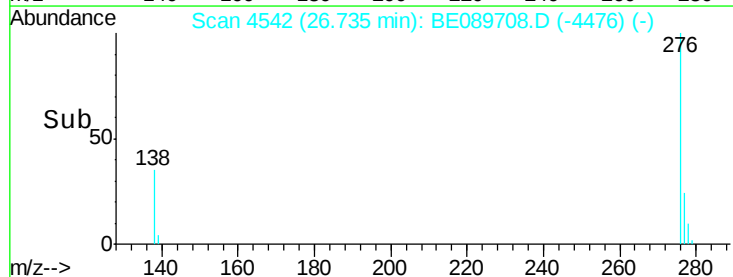
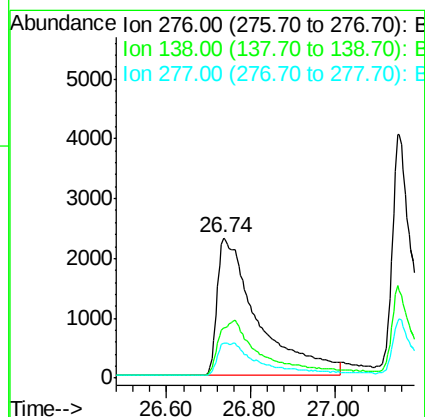
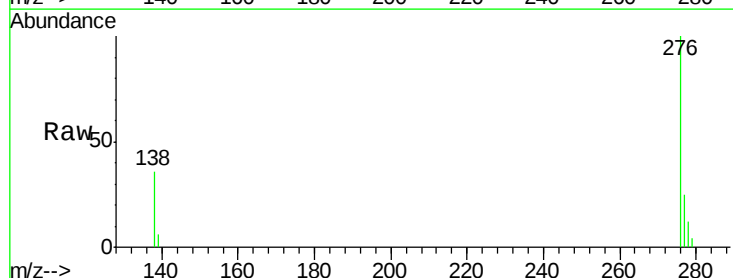
Tgt Ion: 276 Resp: 15533

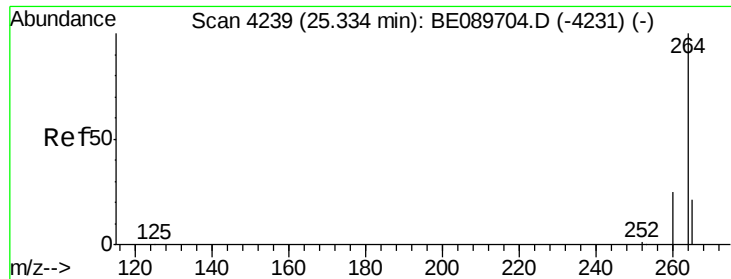
Ion Ratio Lower Upper

276 100

138 0.0 29.8 44.6#

277 6.9 19.8 29.6#

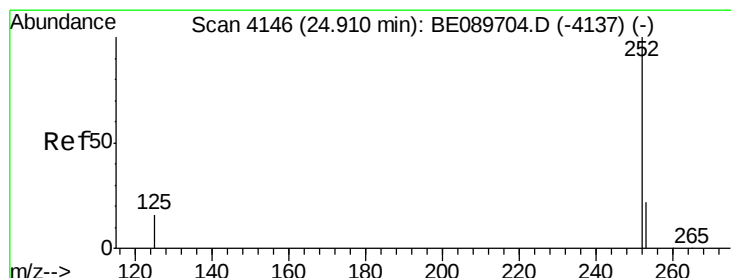
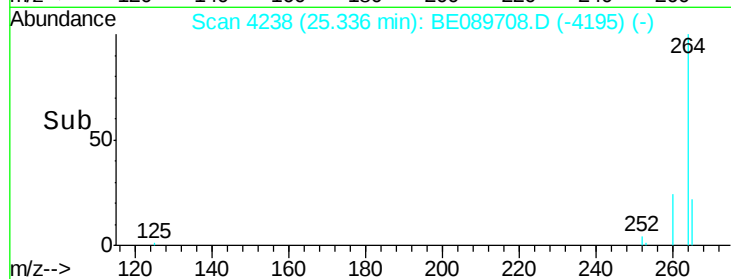
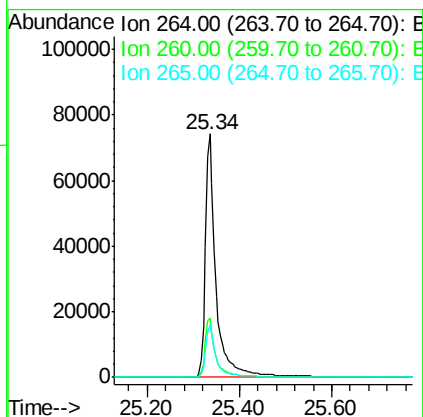
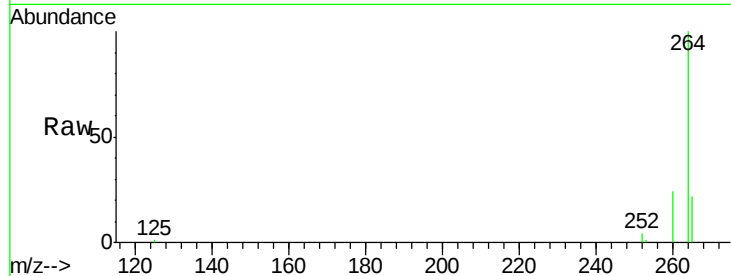




#27
Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4238
 Delta R.T. 0.00 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

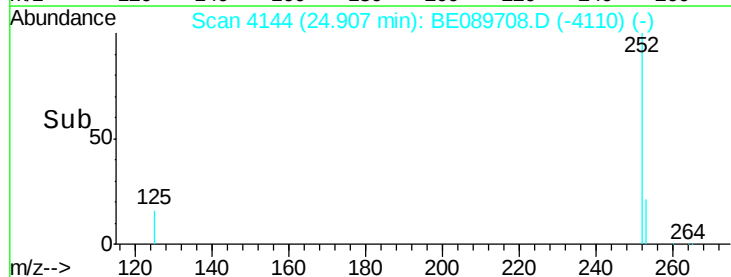
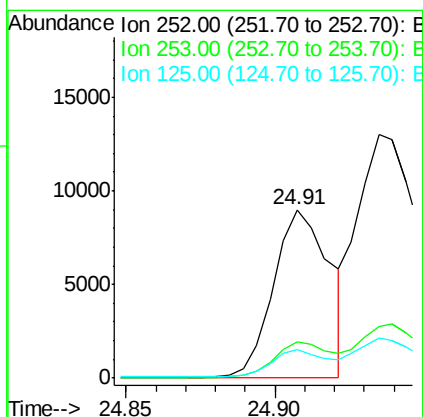
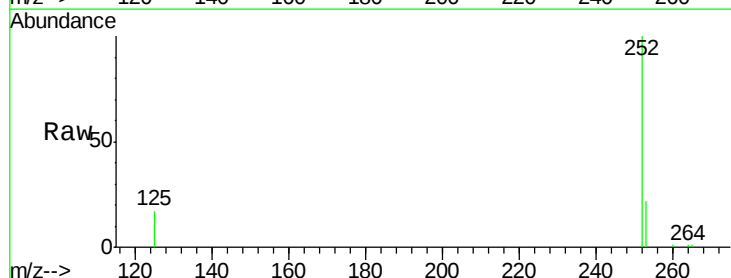
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE022615

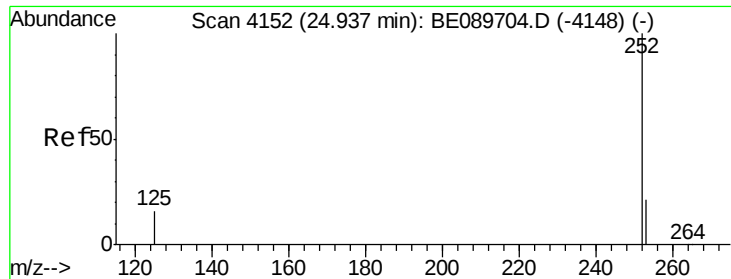
Tgt Ion: 264 Resp: 118051
 Ion Ratio Lower Upper
 264 100
 260 24.3 20.2 30.2
 265 21.8 16.9 25.3



#28
Benzo(b)fluoranthene
 Concen: 0.92 ng
 RT: 24.91 min Scan# 4144
 Delta R.T. -0.00 min
 Lab File: BE089708.D
 Acq: 27 Feb 2015 2:43

Tgt Ion: 252 Resp: 11667
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.8 26.6
 125 16.7 12.9 19.3





#29

Benzo(k)fluoranthene

Concen: 1.09 ng

RT: 24.93 min Scan# 4150

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615

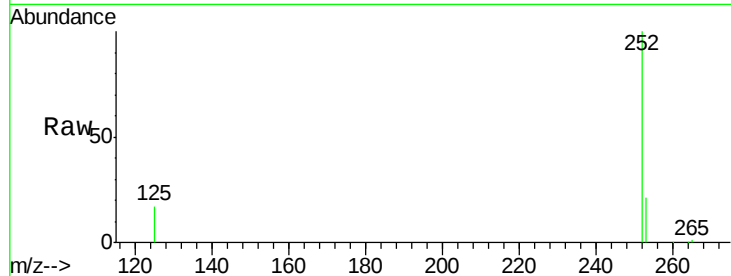
Tgt Ion:252 Resp: 32425

Ion Ratio Lower Upper

252 100

253 21.3 17.3 25.9

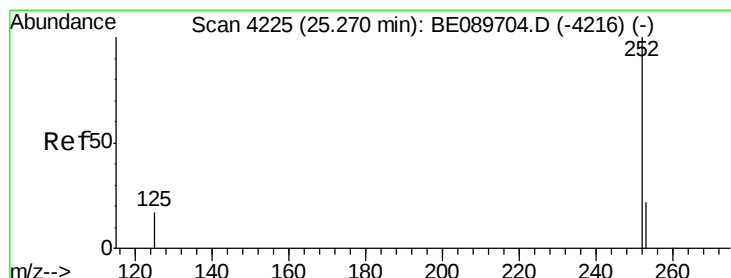
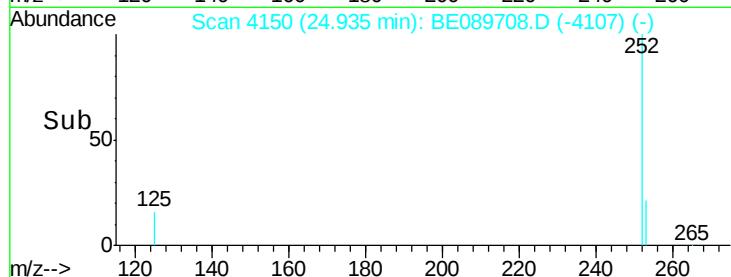
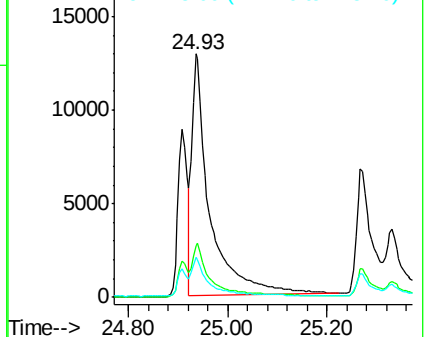
125 16.6 12.9 19.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#30

Benzo(a)pyrene

Concen: 0.95 ng

RT: 25.27 min Scan# 4223

Delta R.T. -0.00 min

Lab File: BE089708.D

Acq: 27 Feb 2015 2:43

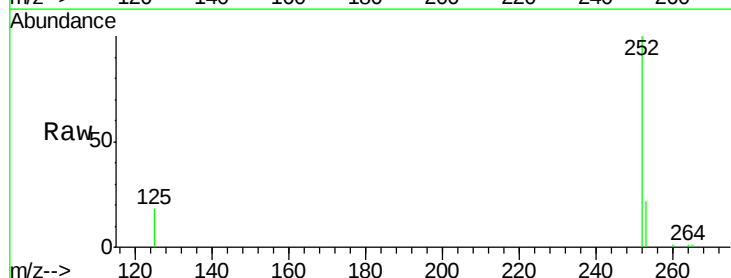
Tgt Ion:252 Resp: 13251

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

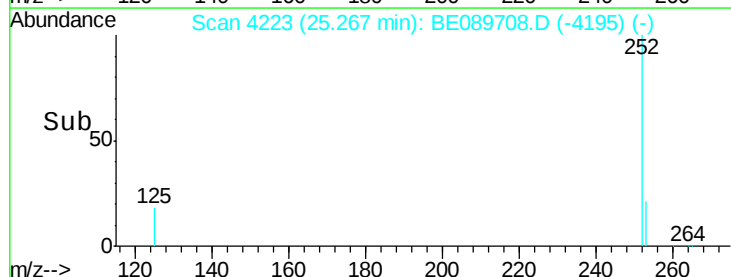
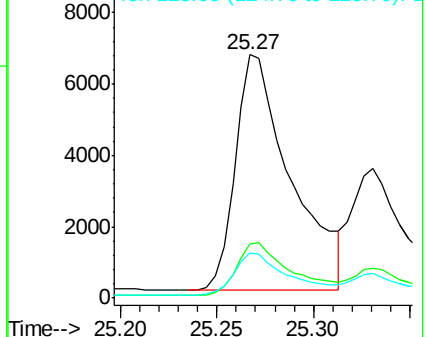
125 18.4 14.0 21.0

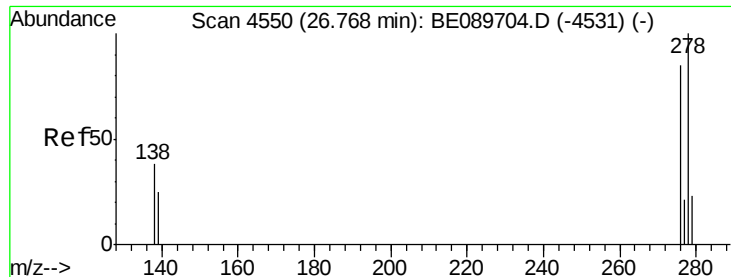


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 0.95 ng

RT: 26.77 min Scan# 4549

Delta R.T. -0.00 min

Lab File: BE089708.D

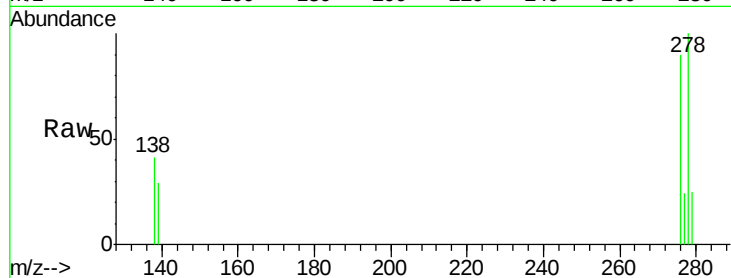
Acq: 27 Feb 2015 2:43

Instrument :

BNA_E

ClientSampleId :

ICVBE022615



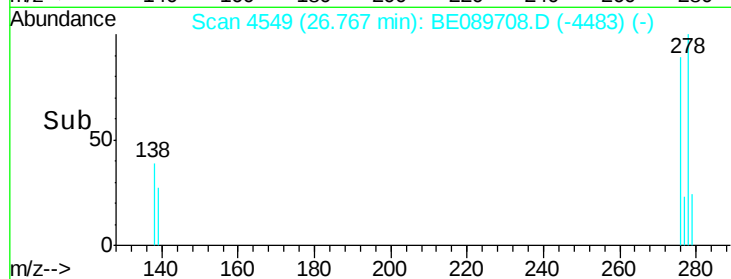
Tgt Ion: 278 Resp: 11576

Ion Ratio Lower Upper

278 100

139 28.7 21.1 31.7

279 25.2 19.3 28.9



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

