

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE012915\
 Data File : BE089421.D
 Acq On : 29 Jan 2015 19:44
 Operator : TP/IZ
 Sample : G1110-08MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-48MSD

Quant Time: Jan 30 06:35:15 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	117795	5.00	ng	0.00
7) Naphthalene-d8	12.50	136	429621	5.00	ng	0.00
13) Acenaphthene-d10	16.68	164	192907	5.00	ng	0.00
17) Phenanthrene-d10	19.99	188	372226	5.00	ng	0.00
20) Chrysene-d12	23.84	240	512901	5.00	ng	0.00
27) Perylene-d12	25.55	264	564556	5.00	ng	0.00

System Monitoring Compounds						
3) 2-Fluorophenol	6.74	112	160622	3.62	ng	0.00
4) Phenol-d6	8.85	99	118833	2.26	ng	0.00
8) Nitrobenzene-d5	10.85	82	261152	7.48	ng	0.00
14) 2,4,6-Tribromophenol	18.58	330	68118	12.80	ng	0.01
15) 2-Fluorobiphenyl	15.13	172	367417	6.83	ng	0.00
22) Terphenyl-d14	22.48	244	564885	9.53	ng	0.00

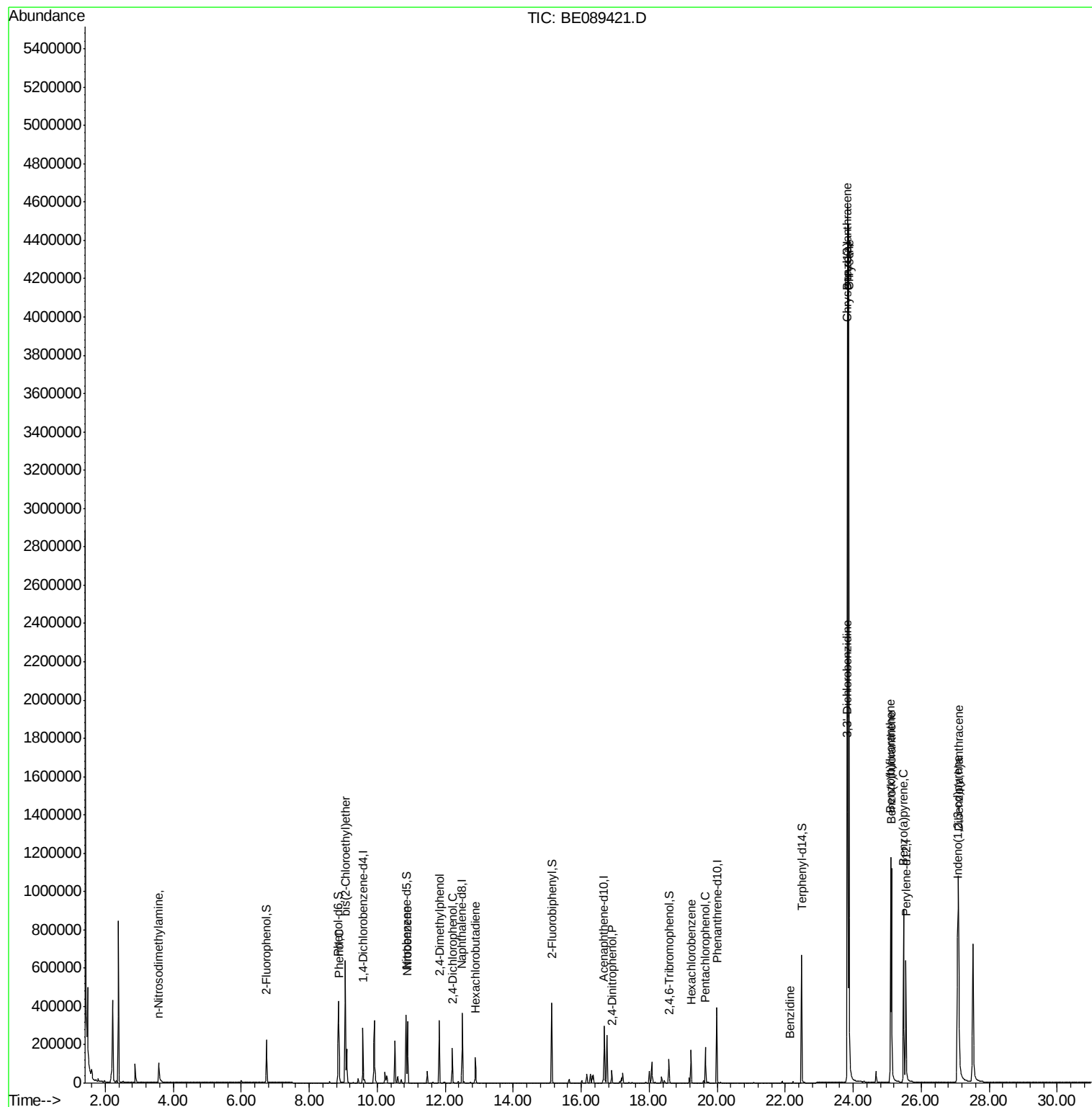
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.56	42	68731	2.98	ng	# 54
5) Phenol	8.88	94	131071	2.27	ng	94
6) bis(2-Chloroethyl)ether	9.06	93	283266	6.60	ng	# 98
9) Nitrobenzene	10.89	77	290189	7.28	ng	99
10) 2,4-Dimethylphenol	11.83	122	160523	5.67	ng	97
11) 2,4-Dichlorophenol	12.21	162	131700	6.69	ng	83
12) Hexachlorobutadiene	12.89	225	82720	6.25	ng	100
16) 2,4-Dinitrophenol	16.90	184	37355	26.41	ng	# 88
18) Hexachlorobenzene	19.23	284	137214	7.52	ng	# 88
19) Pentachlorophenol	19.66	266	104565	30.72	ng	99
21) Benzidine	22.14	184	163	0.00	ng	# 1
23) Benzo(a)anthracene	23.83	228	3707073	9.50	ng	100
24) 3,3'-Dichlorobenzidine	23.81	252	95778	3.13	ng	# 92
25) Chrysene	23.87	228	3848915	7.21	ng	92
26) Indeno(1,2,3-cd)pyrene	27.07	276	1279110	13.90	ng	# 100
28) Benzo(b)fluoranthene	25.10	252	1069329	19.22	ng	99
29) Benzo(k)fluoranthene	25.13	252	1069736	7.28	ng	97
30) Benzo(a)pyrene	25.48	252	1045760	15.18	ng	98
31) Dibenzo(a,h)anthracene	27.10	278	1125396	16.39	ng	# 93

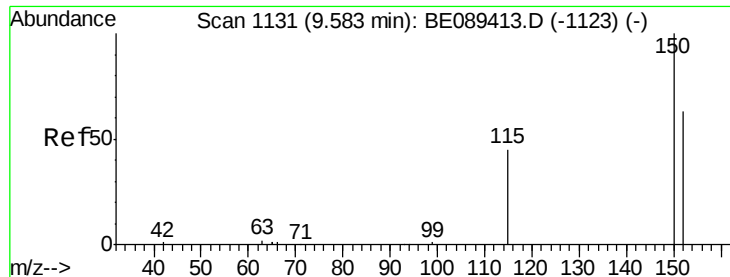
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

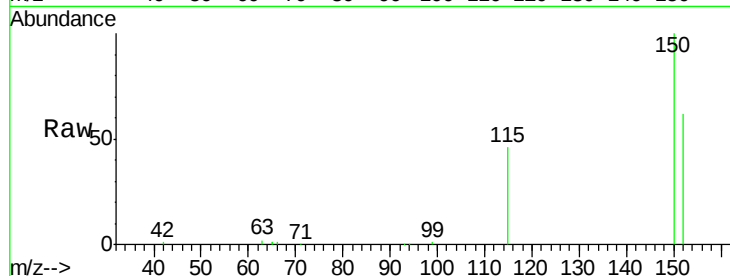
Tgt Ion:152 Resp: 117795

Ion Ratio Lower Upper

152 100

150 160.4 126.1 189.1

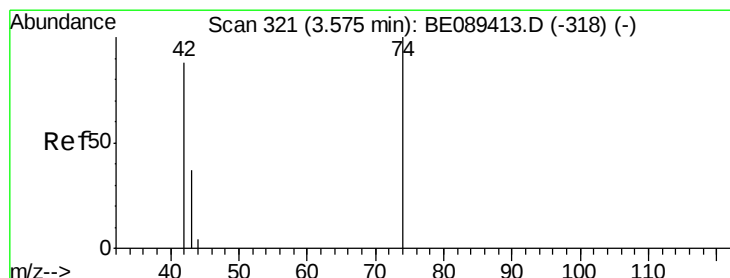
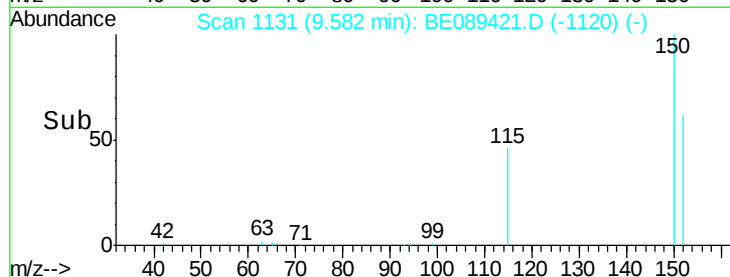
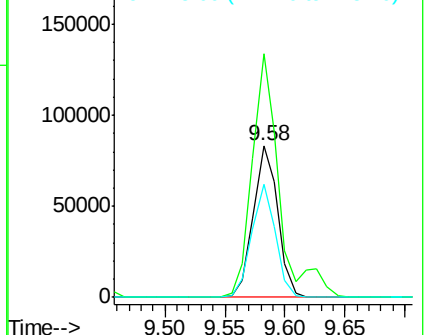
115 74.1 57.1 85.7



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: 2.98 ng

RT: 3.56 min Scan# 319

Delta R.T. -0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

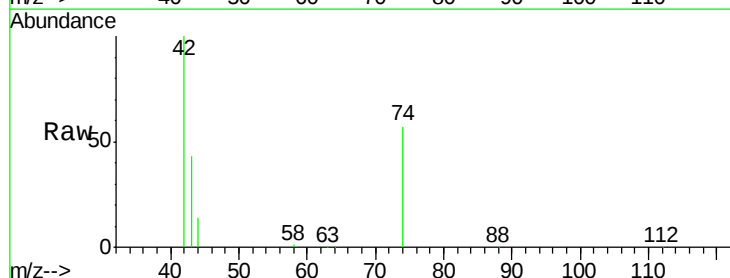
Tgt Ion: 42 Resp: 68731

Ion Ratio Lower Upper

42 100

74 57.2 90.2 135.2#

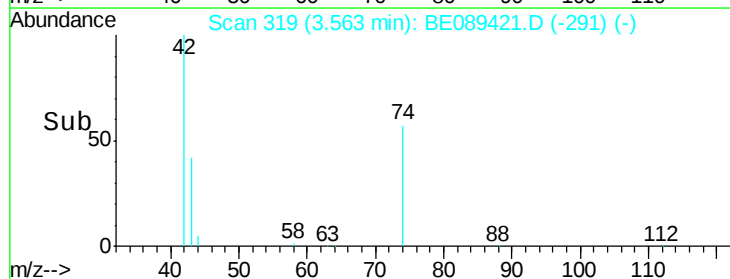
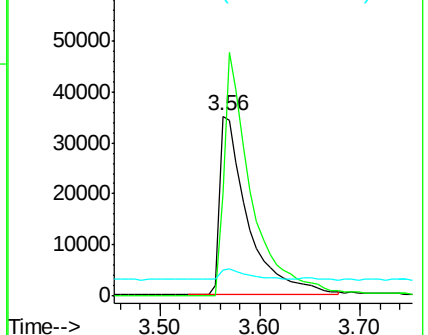
44 14.4 19.4 29.2#

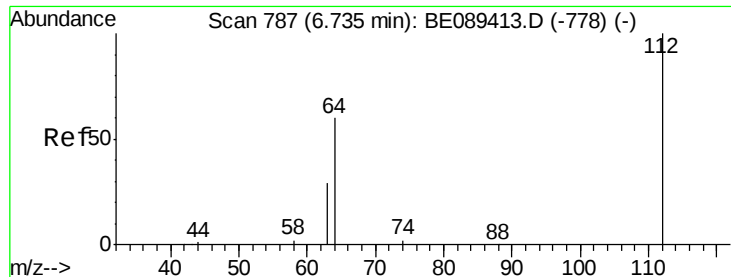


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 3.62 ng

RT: 6.74 min Scan# 788

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

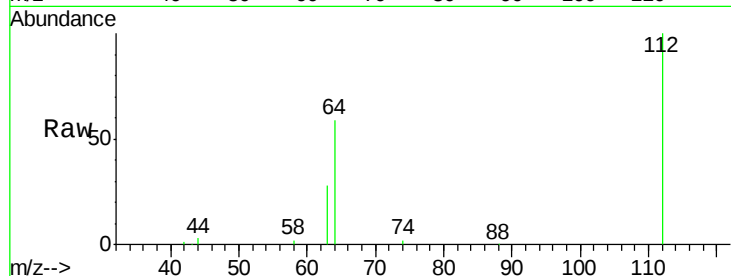
Tgt Ion: 112 Resp: 160622

Ion Ratio Lower Upper

112 100

64 58.6 48.2 72.4

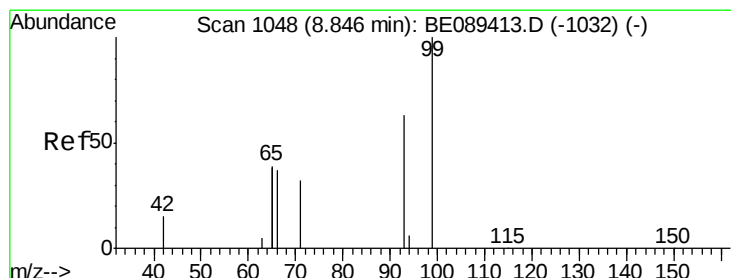
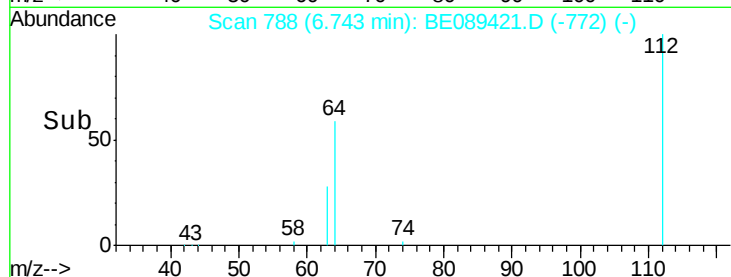
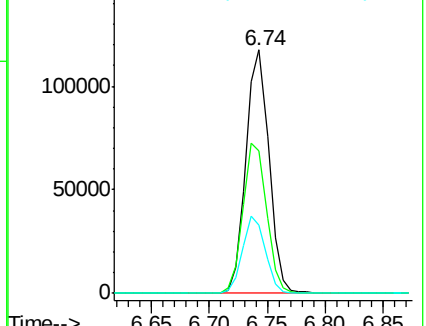
63 28.0 23.5 35.3



Abundance Ion 112.00 (111.70 to 112.70): BE089421.D (-1014) (-)

Ion 64.00 (63.70 to 64.70): BE089421.D (-1014) (-)

Ion 63.00 (62.70 to 63.70): BE089421.D (-1014) (-)



#4

Phenol-d6

Concen: 2.26 ng

RT: 8.85 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

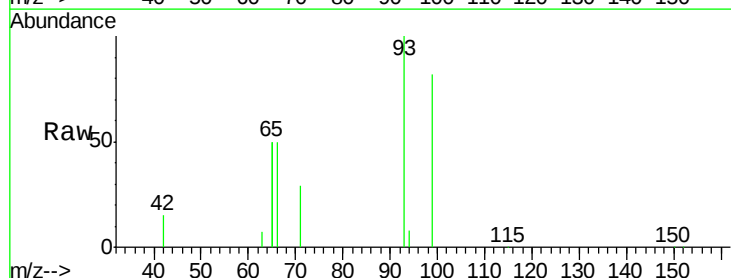
Tgt Ion: 99 Resp: 118833

Ion Ratio Lower Upper

99 100

42 17.9 11.9 17.9

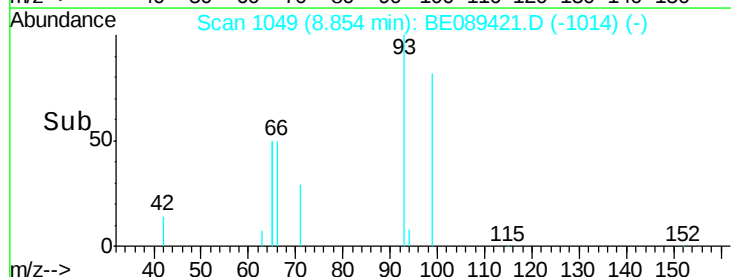
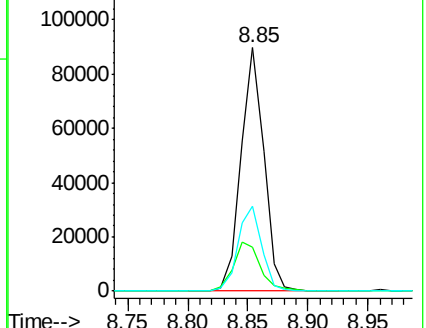
71 35.1 25.8 38.6

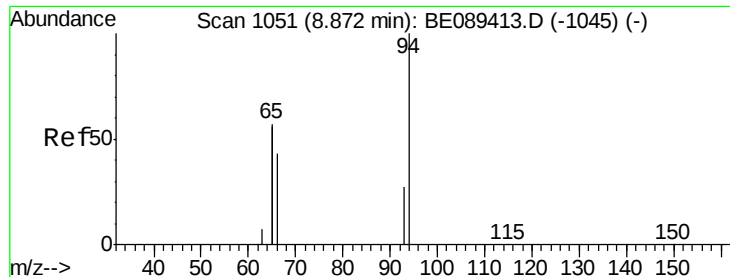


Abundance Ion 99.00 (98.70 to 99.70): BE089421.D (-1014) (-)

Ion 42.00 (41.70 to 42.70): BE089421.D (-1014) (-)

Ion 71.00 (70.70 to 71.70): BE089421.D (-1014) (-)





#5

Phenol

Concen: 2.27 ng

RT: 8.88 min Scan# 1052

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

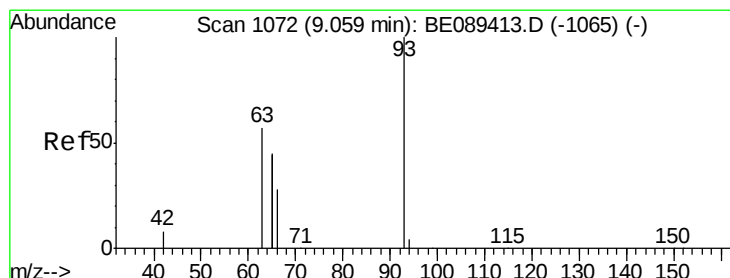
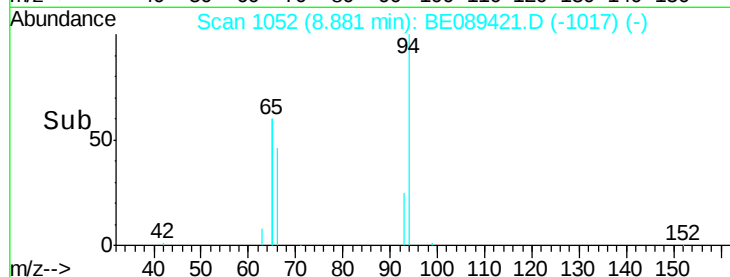
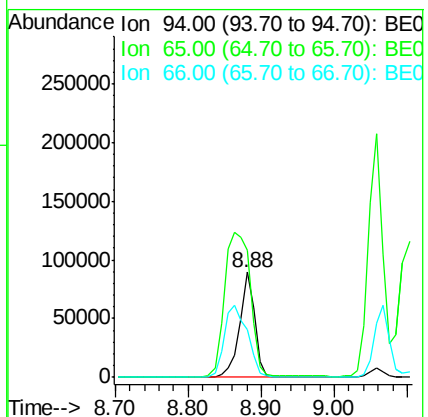
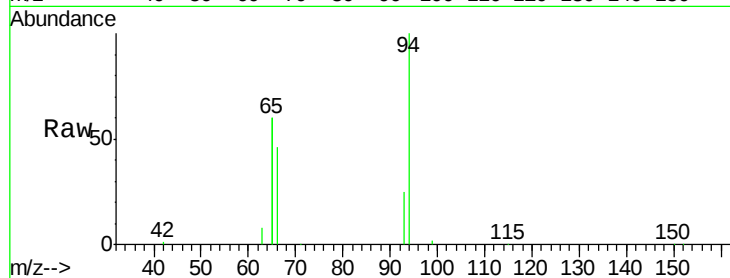
Tgt Ion: 94 Resp: 131071

Ion Ratio Lower Upper

94 100

65 120.8 93.3 133.3

66 45.7 23.6 63.6



#6

bis(2-Chloroethyl)ether

Concen: 6.60 ng

RT: 9.06 min Scan# 1072

Delta R.T. -0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

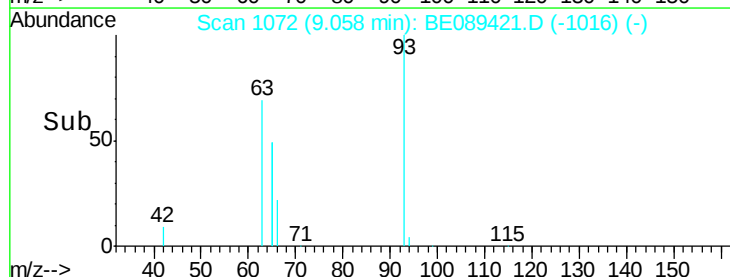
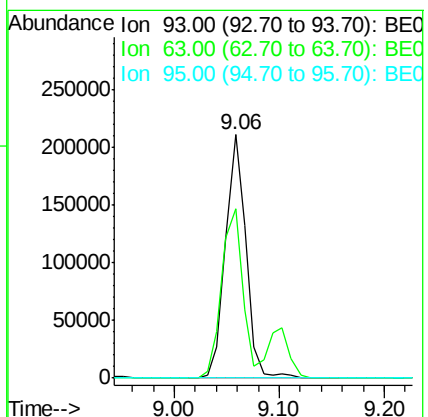
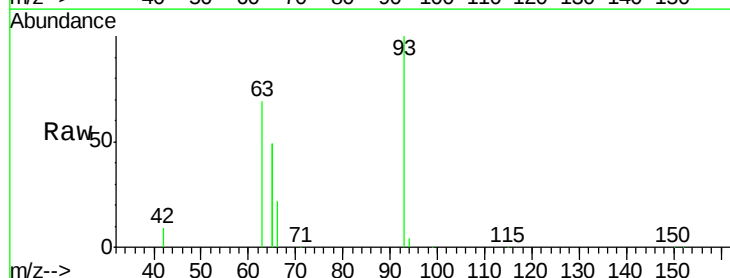
Tgt Ion: 93 Resp: 283266

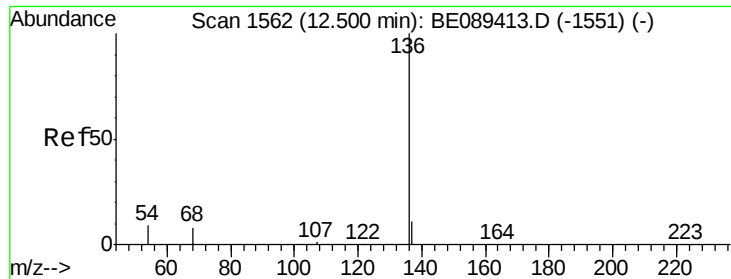
Ion Ratio Lower Upper

93 100

63 75.0 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: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

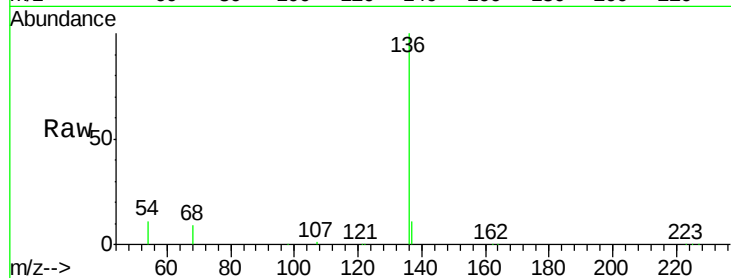
Tgt Ion: 136 Resp: 429621

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

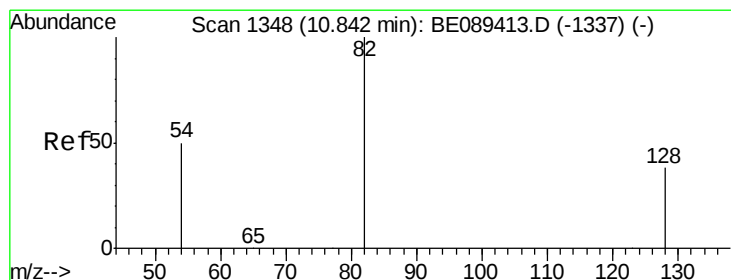
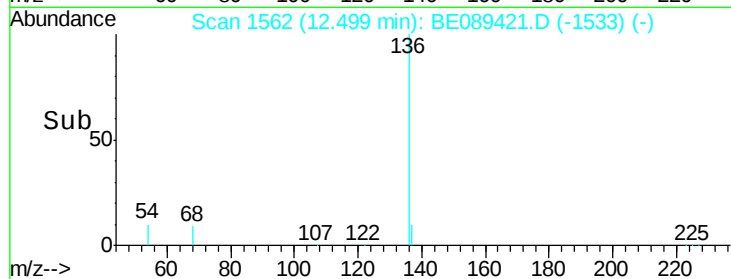
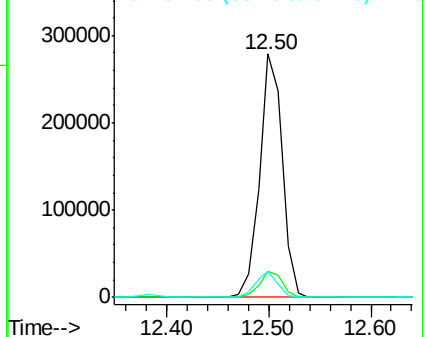
54 10.5 7.5 11.3



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: 7.48 ng

RT: 10.85 min Scan# 1349

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

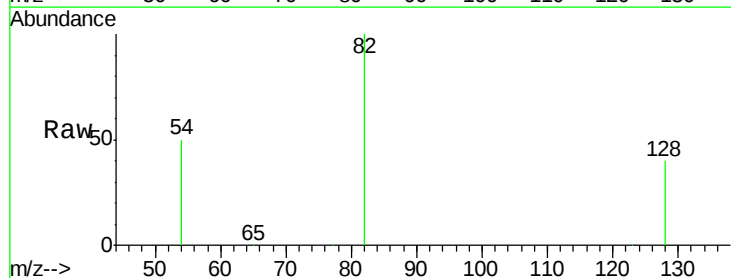
Tgt Ion: 82 Resp: 261152

Ion Ratio Lower Upper

82 100

128 39.8 31.0 46.4

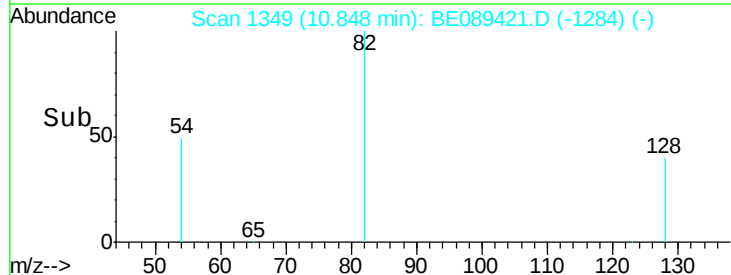
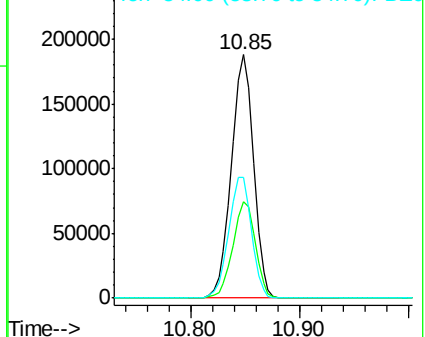
54 49.6 39.8 59.6

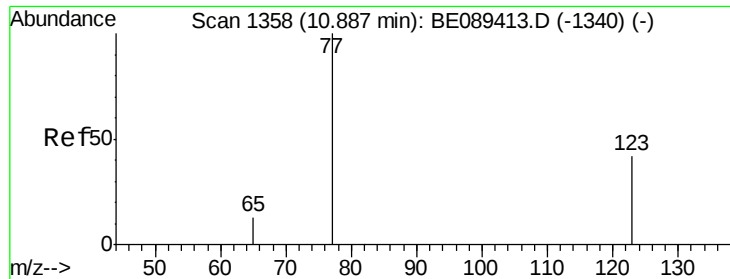


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.28 ng

RT: 10.89 min Scan# 1358

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampled :

MW-48MSD

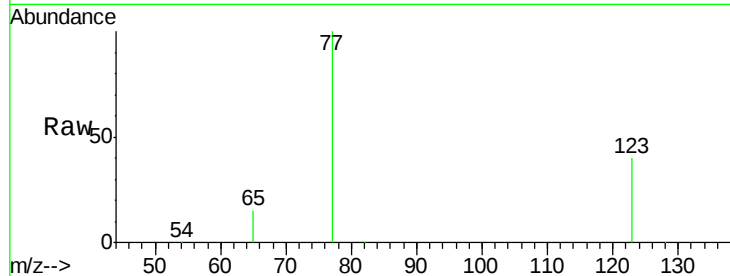
Tgt Ion: 77 Resp: 290189

Ion Ratio Lower Upper

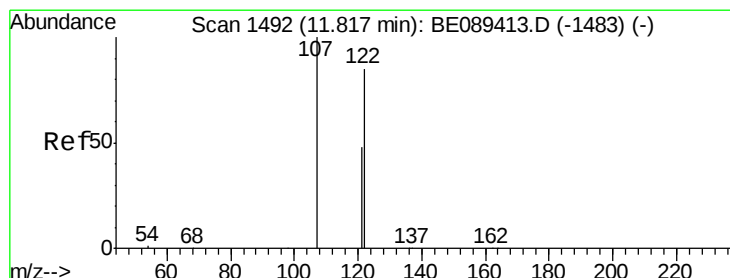
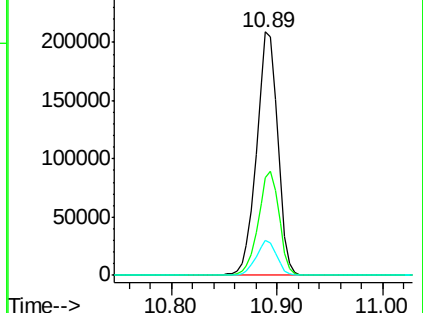
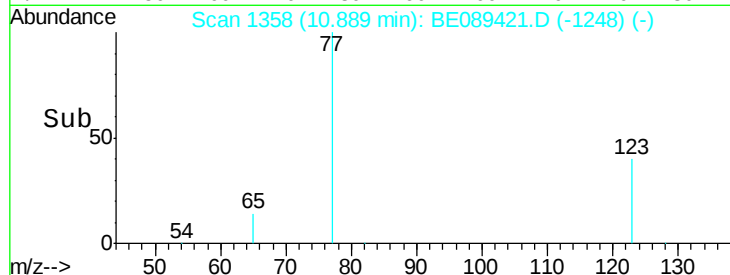
77 100

123 42.0 32.8 49.2

65 14.0 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: 5.67 ng

RT: 11.83 min Scan# 1493

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

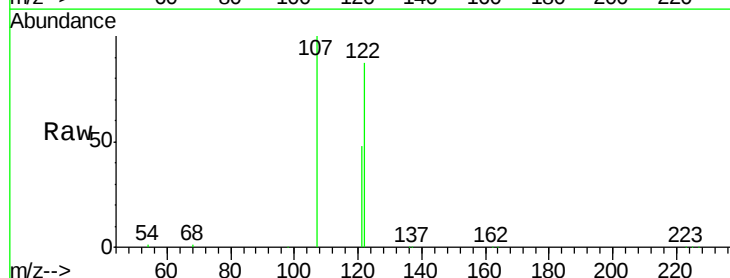
Tgt Ion: 122 Resp: 160523

Ion Ratio Lower Upper

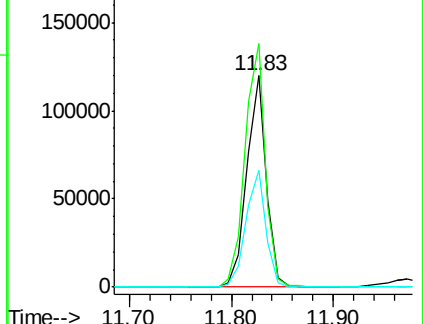
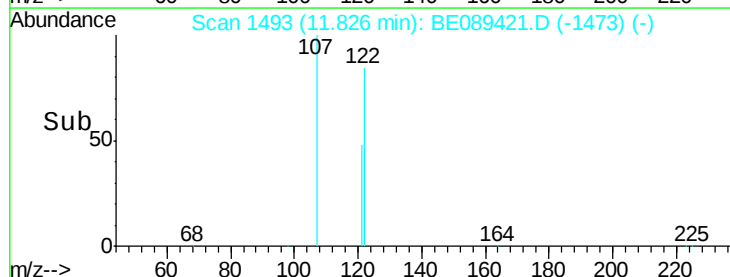
122 100

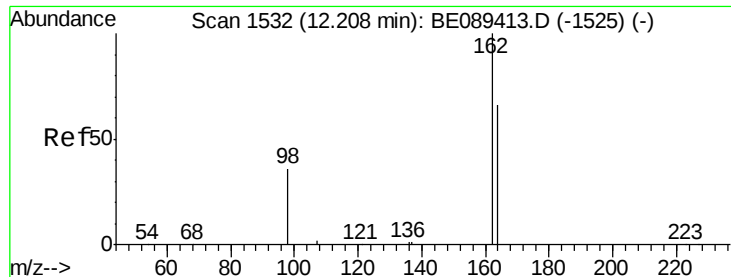
107 115.3 94.6 142.0

121 55.3 45.8 68.6



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

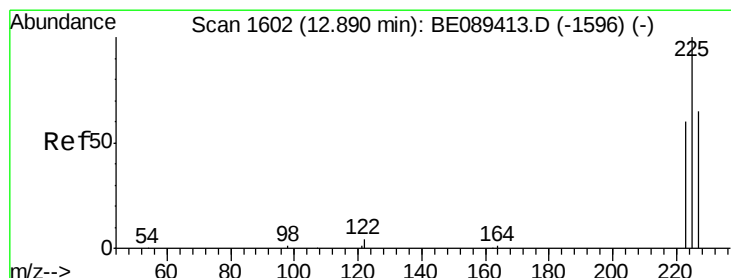
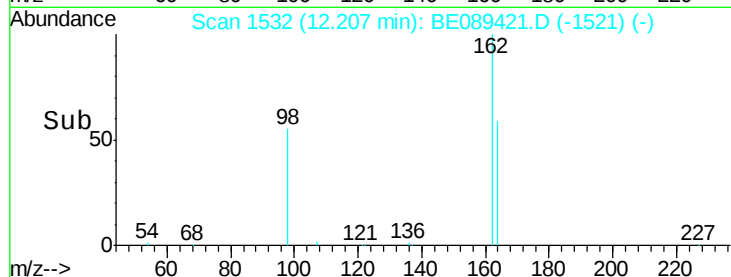
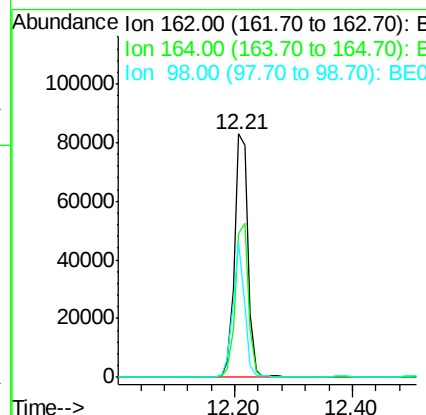
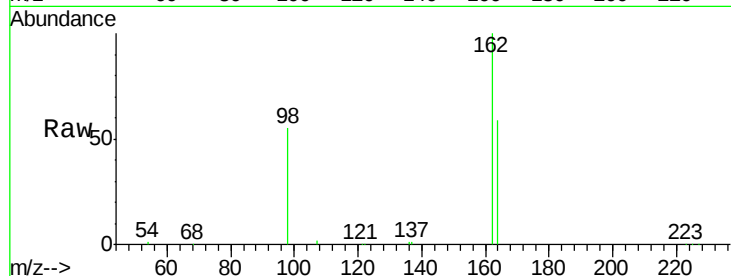




#11
 2,4-Dichlorophenol
 Concen: 6.69 ng
 RT: 12.21 min Scan# 1532
 Delta R.T. -0.00 min
 Lab File: BE089421.D
 Acq: 29 Jan 2015 19:44

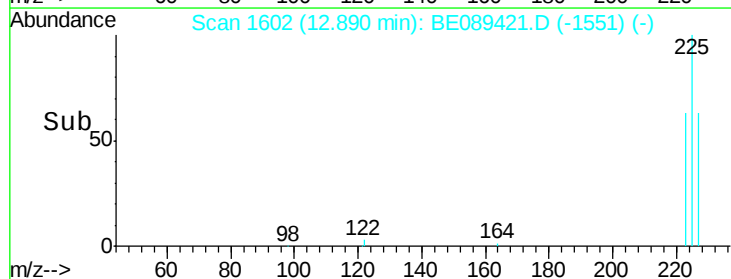
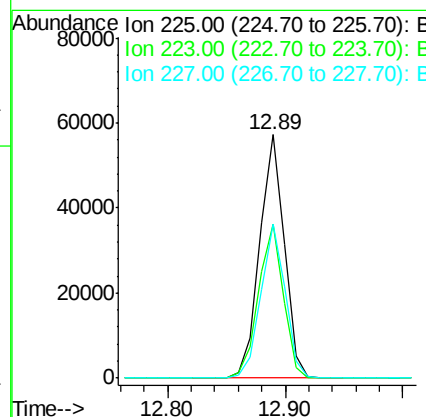
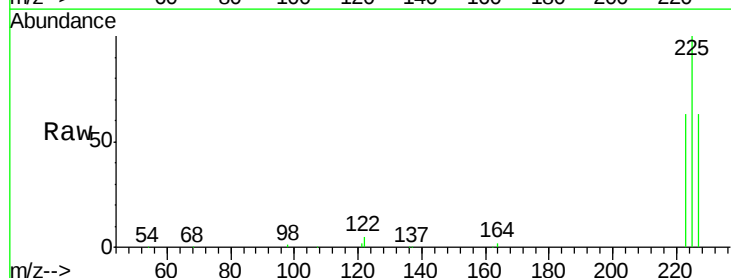
Instrument :
 BNA_E
 ClientSampled :
 MW-48MSD

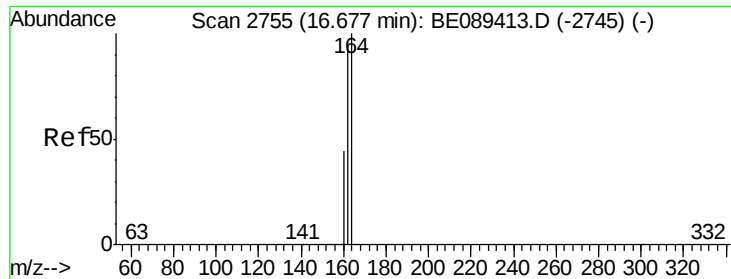
Tgt Ion:162 Resp: 131700
 Ion Ratio Lower Upper
 162 100
 164 59.2 46.1 86.1
 98 55.2 16.2 56.2



#12
 Hexachlorobutadiene
 Concen: 6.25 ng
 RT: 12.89 min Scan# 1602
 Delta R.T. -0.00 min
 Lab File: BE089421.D
 Acq: 29 Jan 2015 19:44

Tgt Ion:225 Resp: 82720
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.4 75.6
 227 62.7 50.2 75.2

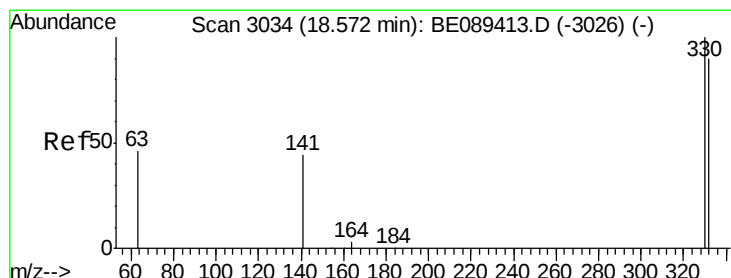
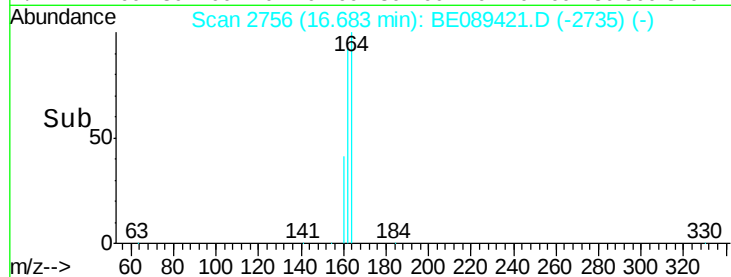
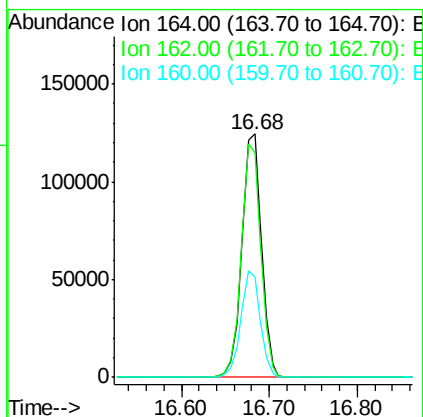
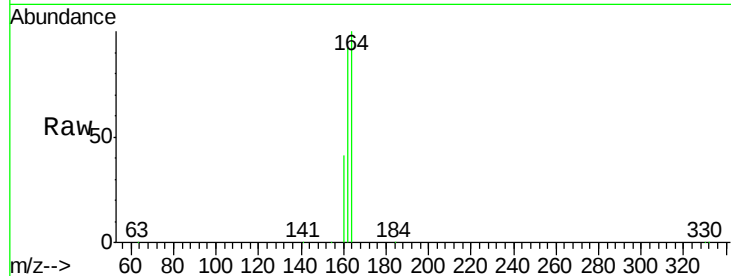




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.68 min Scan# 2756
Delta R.T. 0.01 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

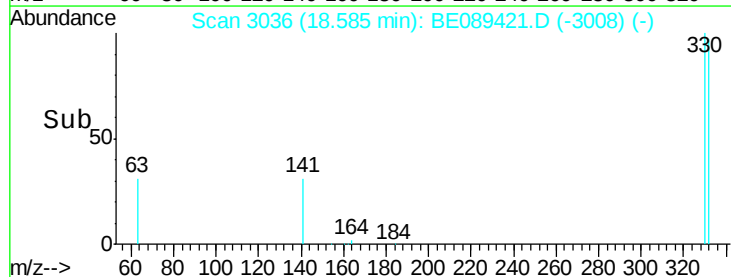
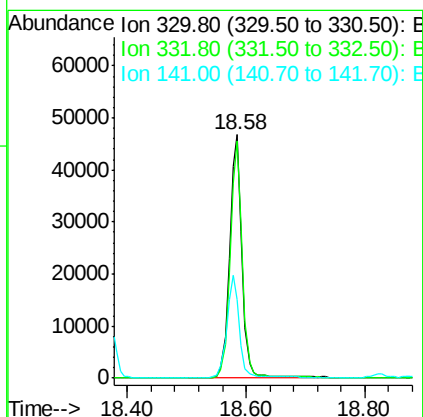
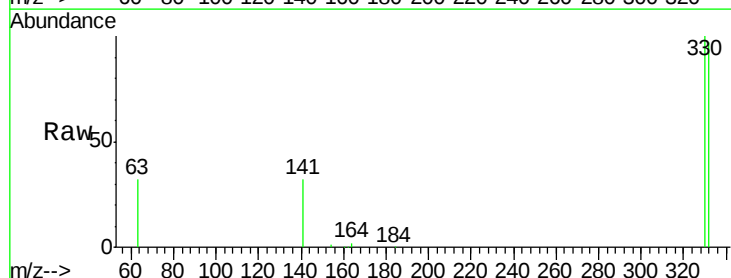
Instrument :
BNA_E
ClientSampleId :
MW-48MSD

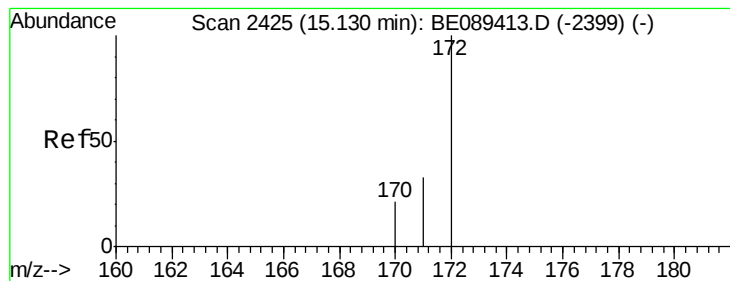
Tgt Ion:164 Resp: 192907
Ion Ratio Lower Upper
164 100
162 92.4 77.0 115.6
160 41.0 35.0 52.4



#14
2,4,6-Tribromophenol
Concen: 12.80 ng
RT: 18.58 min Scan# 3036
Delta R.T. 0.01 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

Tgt Ion:330 Resp: 68118
Ion Ratio Lower Upper
330 100
332 96.7 76.0 114.0
141 41.5 35.6 53.4

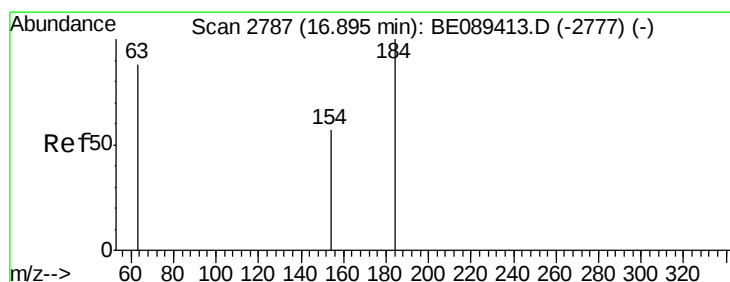
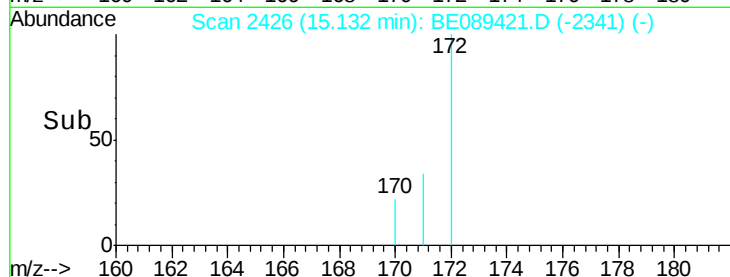
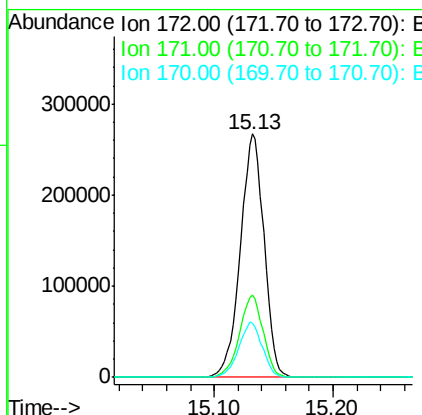
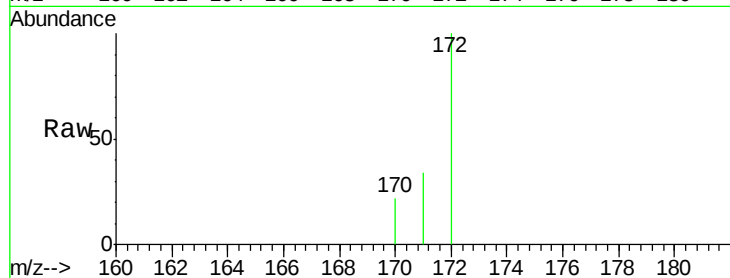




#15
2-Fluorobiphenyl
Concen: 6.83 ng
RT: 15.13 min Scan# 2426
Delta R.T. 0.00 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

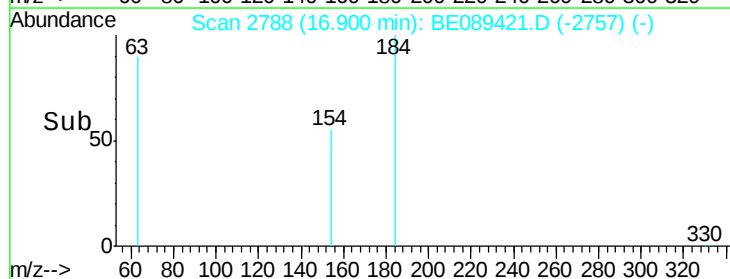
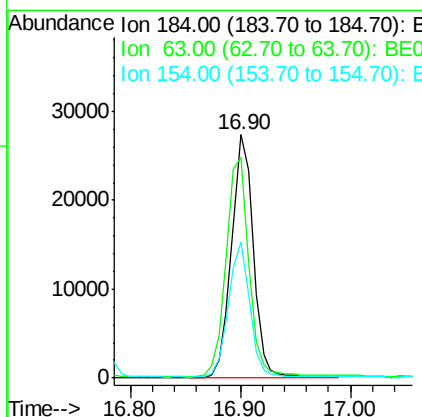
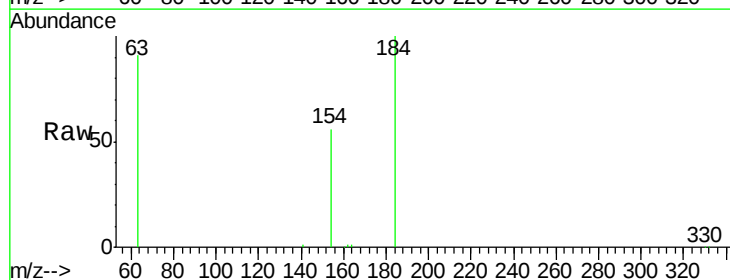
Instrument :
BNA_E
ClientSampleId :
MW-48MSD

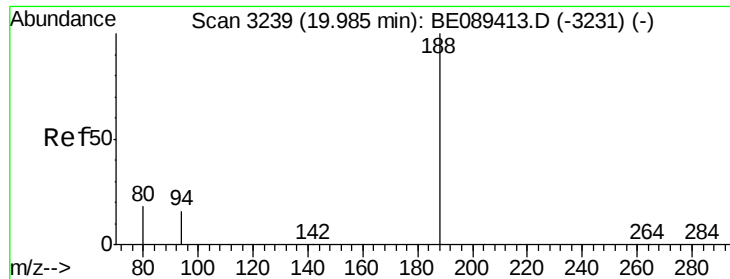
Tgt Ion:172 Resp: 367417
Ion Ratio Lower Upper
172 100
171 33.8 26.6 39.8
170 22.4 17.1 25.7



#16
2,4-Dinitrophenol
Concen: 26.41 ng
RT: 16.90 min Scan# 2788
Delta R.T. 0.01 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

Tgt Ion:184 Resp: 37355
Ion Ratio Lower Upper
184 100
63 90.6 79.0 118.4
154 55.7 55.8 83.6#

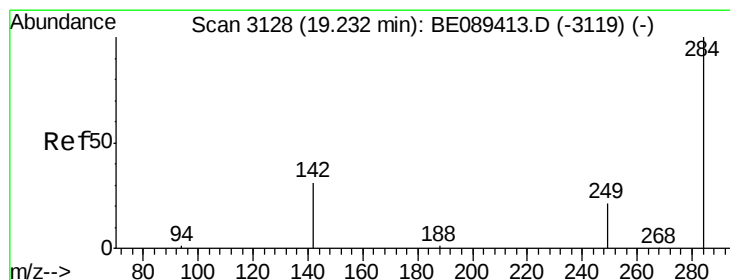
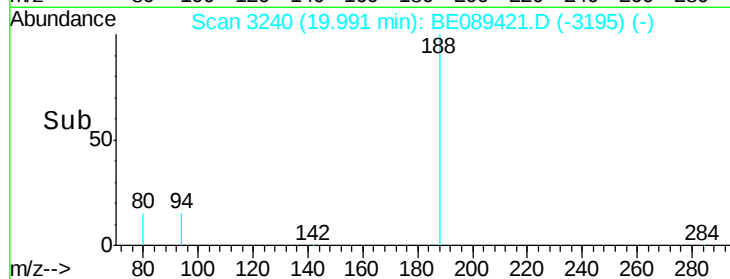
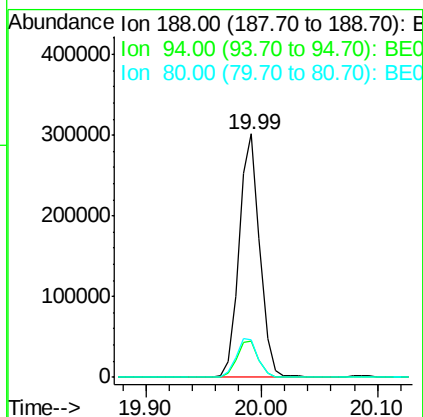
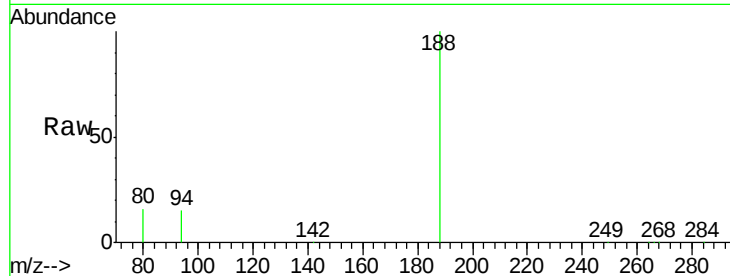




#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.99 min Scan# 3240
Delta R.T. 0.01 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

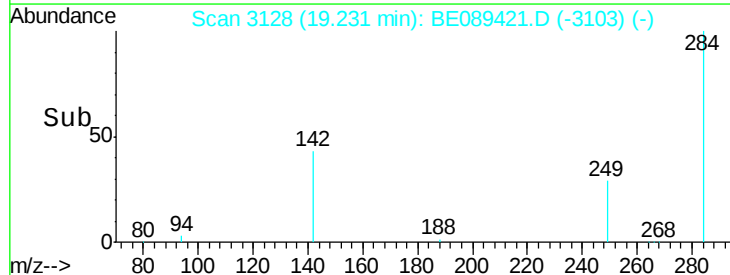
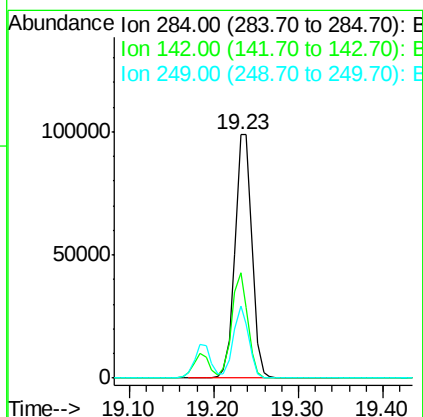
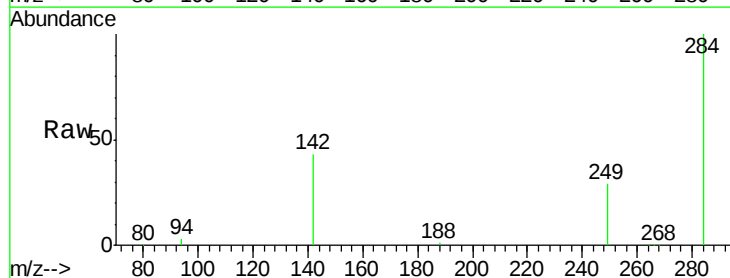
Instrument :
BNA_E
ClientSampleId :
MW-48MSD

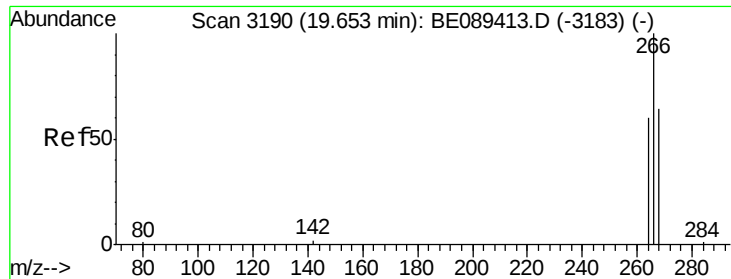
Tgt Ion:188 Resp: 372226
Ion Ratio Lower Upper
188 100
94 14.8 13.0 19.6
80 15.6 14.2 21.4



#18
Hexachlorobenzene
Concen: 7.52 ng
RT: 19.23 min Scan# 3128
Delta R.T. -0.00 min
Lab File: BE089421.D
Acq: 29 Jan 2015 19:44

Tgt Ion:284 Resp: 137214
Ion Ratio Lower Upper
284 100
142 43.5 28.3 42.5#
249 29.5 19.9 29.9

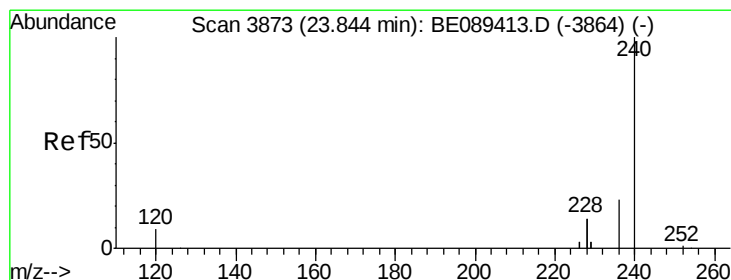
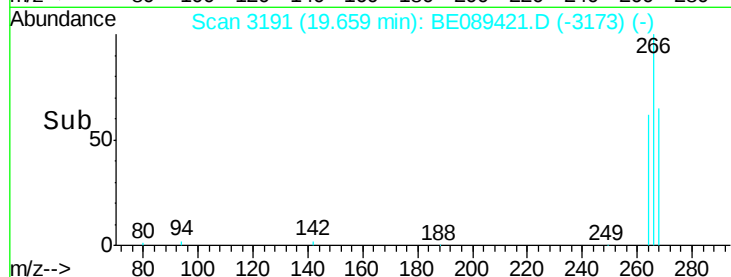
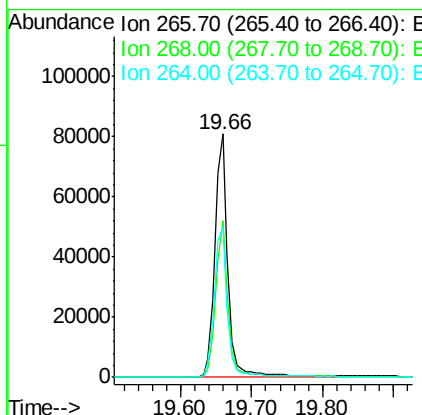
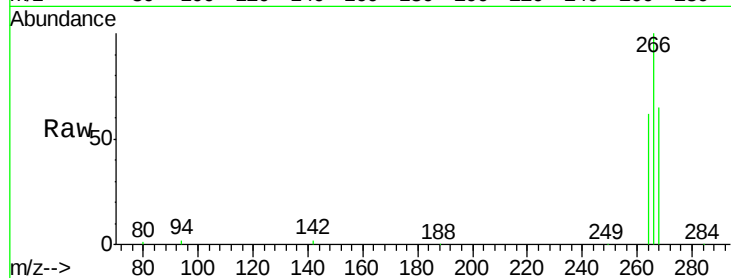




#19
 Pentachlorophenol
 Concen: 30.72 ng
 RT: 19.66 min Scan# 3191
 Delta R.T. 0.01 min
 Lab File: BE089421.D
 Acq: 29 Jan 2015 19:44

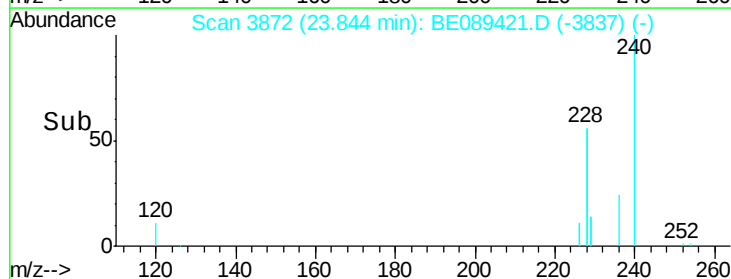
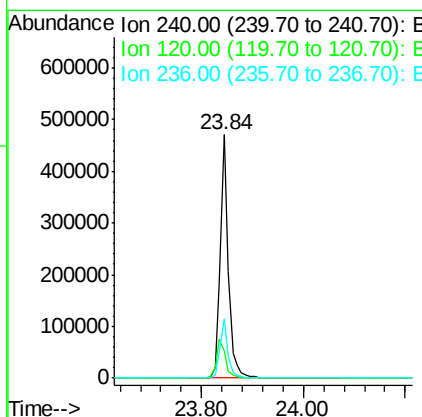
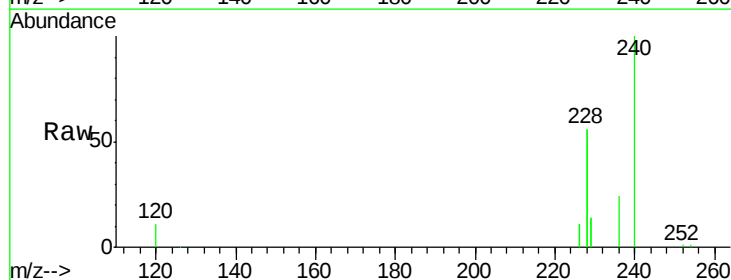
Instrument :
 BNA_E
 ClientSampleId :
 MW-48MSD

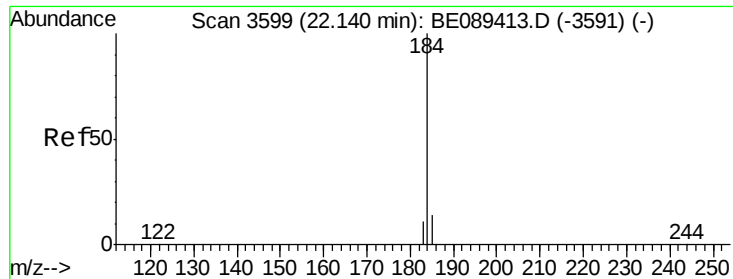
Tgt Ion:266 Resp: 104565
 Ion Ratio Lower Upper
 266 100
 268 64.6 51.9 77.9
 264 61.6 48.5 72.7



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 3872
 Delta R.T. -0.00 min
 Lab File: BE089421.D
 Acq: 29 Jan 2015 19:44

Tgt Ion:240 Resp: 512901
 Ion Ratio Lower Upper
 240 100
 120 11.1 6.9 10.3#
 236 24.1 18.2 27.2





#21

Benzidine

Concen: 0.00 ng

RT: 22.14 min Scan# 3599

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampled :

MW-48MSD

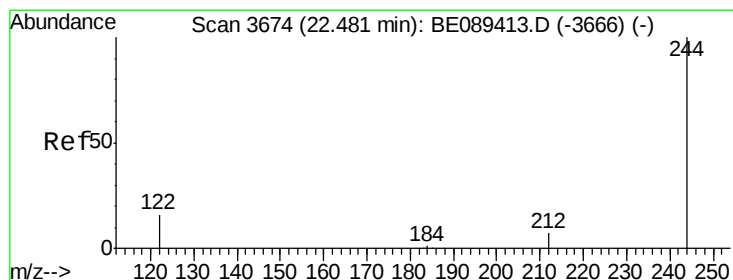
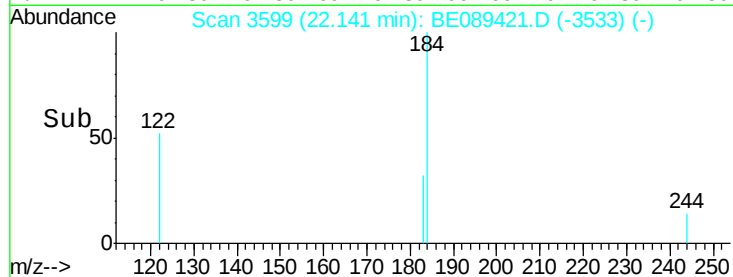
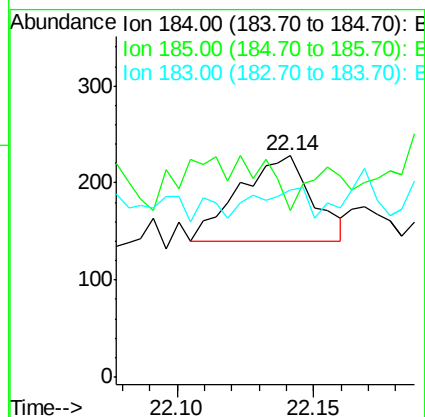
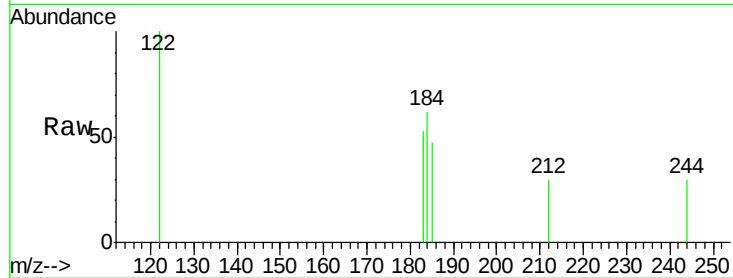
Tgt Ion:184 Resp: 163

Ion Ratio Lower Upper

184 100

185 75.4 11.0 16.6#

183 84.6 8.6 13.0#



#22

Terphenyl-d14

Concen: 9.53 ng

RT: 22.48 min Scan# 3674

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

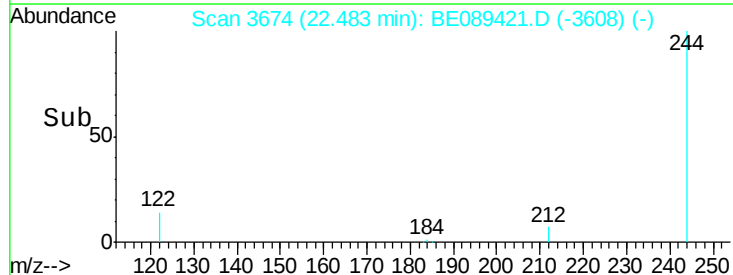
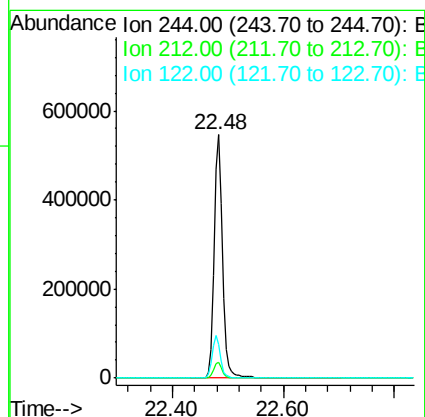
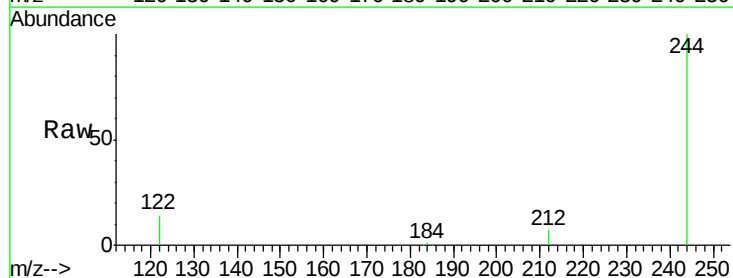
Tgt Ion:244 Resp: 564885

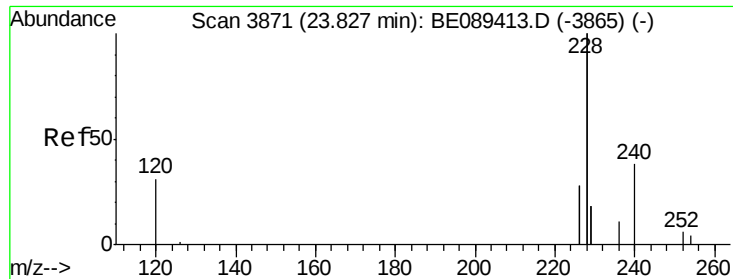
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 13.8 13.2 19.8





#23

Benzo(a)anthracene

Concen: 9.50 ng

RT: 23.83 min Scan# 3870

Delta R.T. -0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

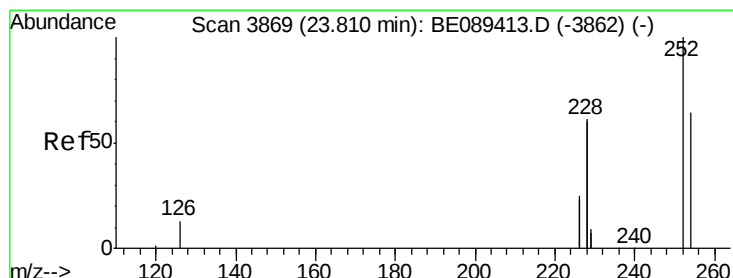
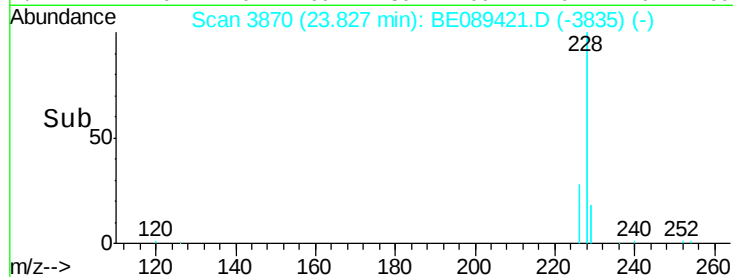
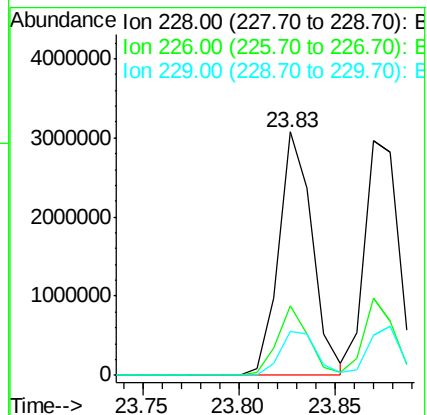
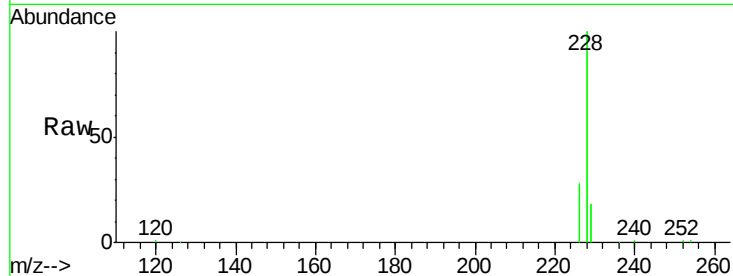
Tgt Ion:228 Resp: 3707073

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 18.3 14.5 21.7



#24

3,3'-Dichlorobenzidine

Concen: 3.13 ng

RT: 23.81 min Scan# 3868

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

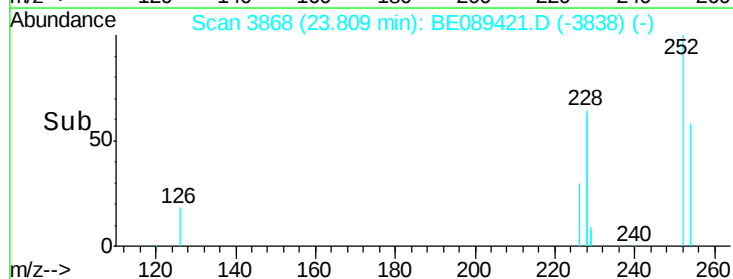
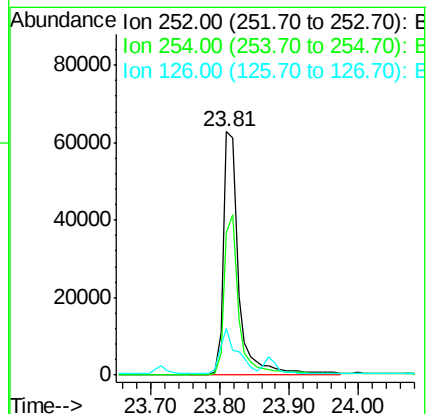
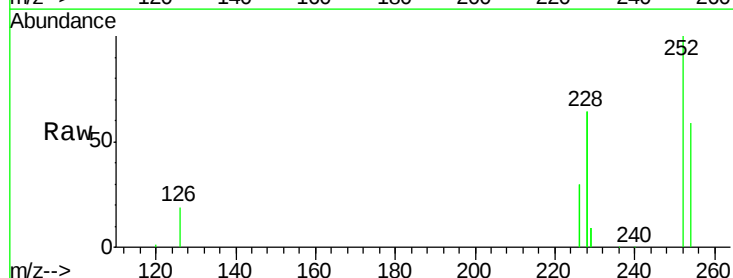
Tgt Ion:252 Resp: 95778

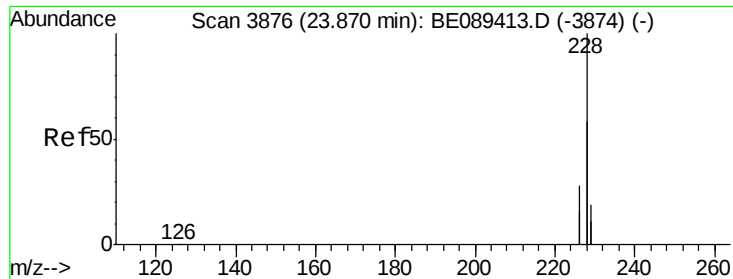
Ion Ratio Lower Upper

252 100

254 58.6 51.1 76.7

126 18.9 11.5 17.3#





#25

Chrysene

Concen: 7.21 ng

RT: 23.87 min Scan# 3875

Delta R.T. -0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

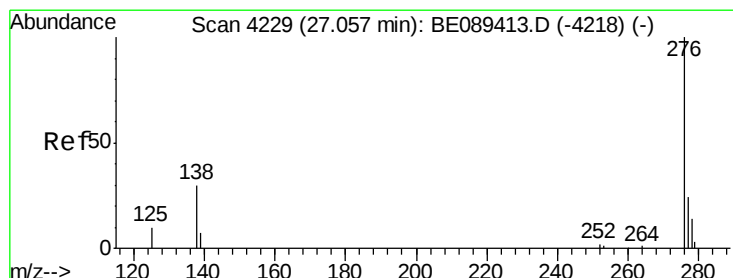
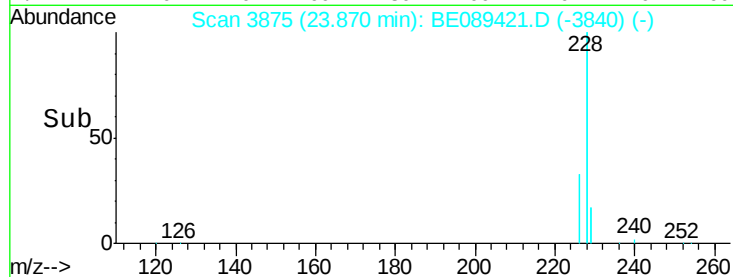
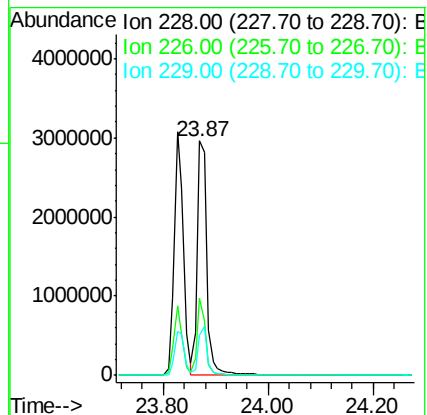
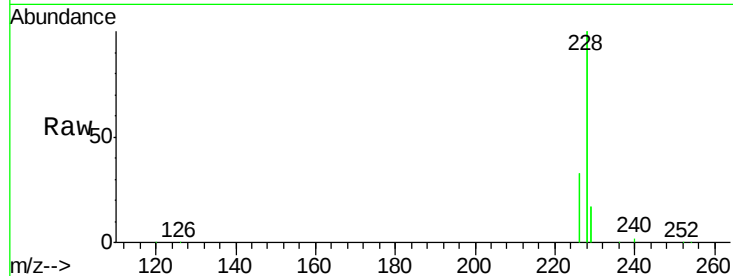
Tgt Ion:228 Resp: 3848915

Ion Ratio Lower Upper

228 100

226 33.1 22.6 33.8

229 17.0 15.5 23.3



#26

Indeno(1,2,3-cd)pyrene

Concen: 13.90 ng

RT: 27.07 min Scan# 4229

Delta R.T. 0.01 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

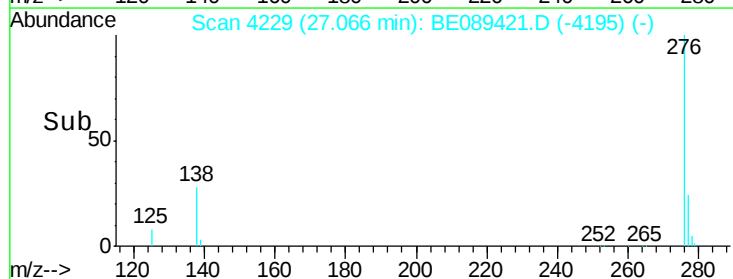
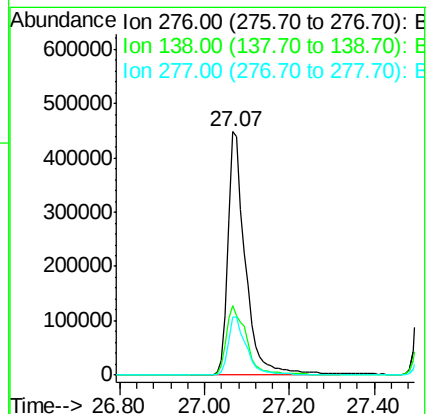
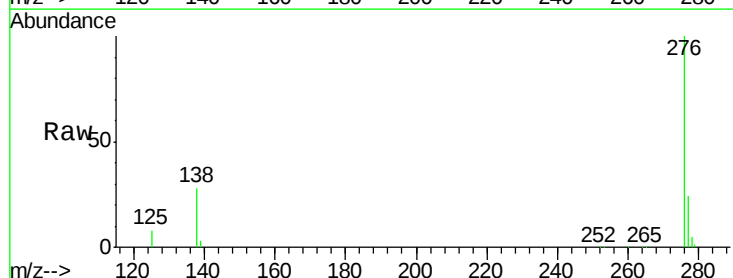
Tgt Ion:276 Resp: 1279110

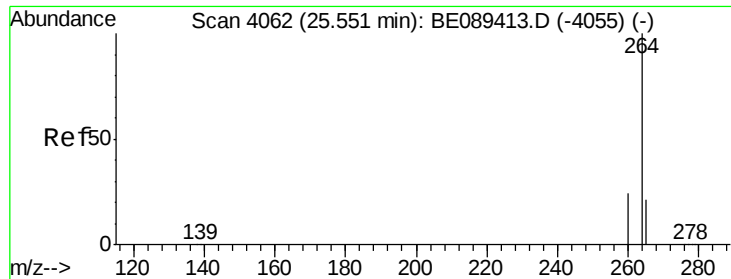
Ion Ratio Lower Upper

276 100

138 33.0 0.0 0.0#

277 25.1 0.0 0.0#





#27

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4061

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

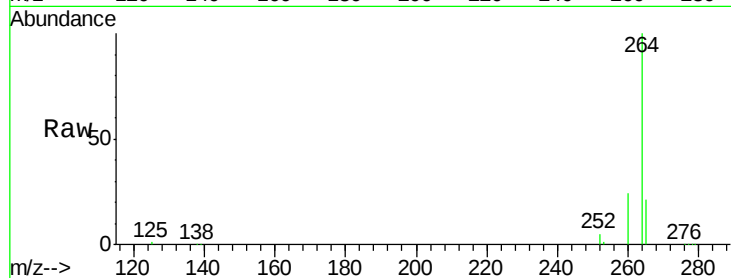
Tgt Ion:264 Resp: 564556

Ion Ratio Lower Upper

264 100

260 24.2 19.4 29.0

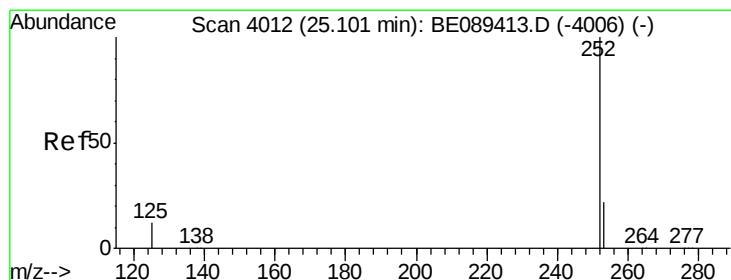
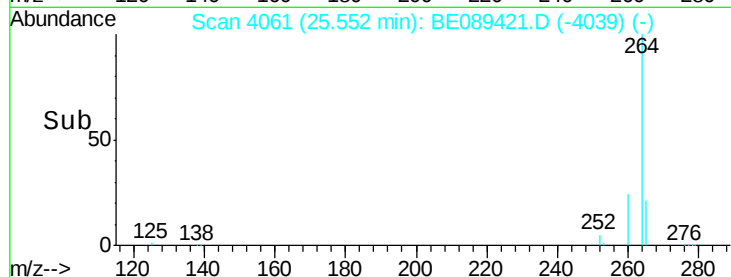
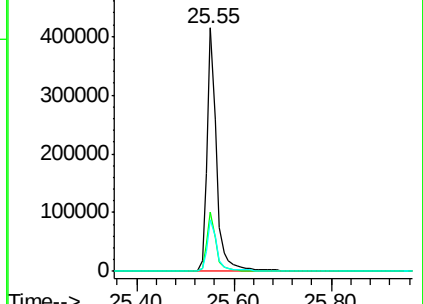
265 21.4 17.1 25.7



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: 19.22 ng

RT: 25.10 min Scan# 4011

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

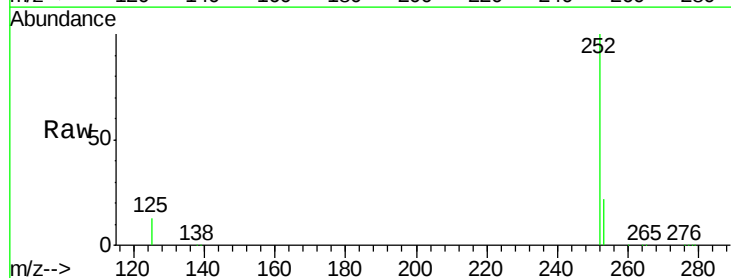
Tgt Ion:252 Resp: 1069329

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

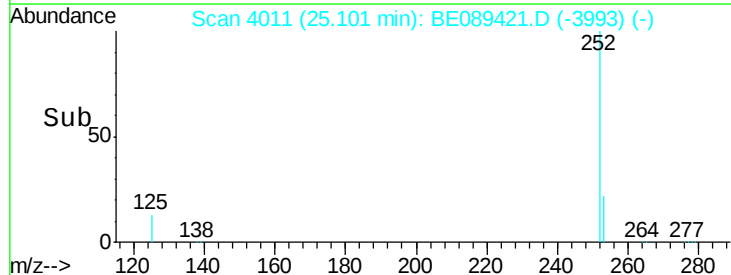
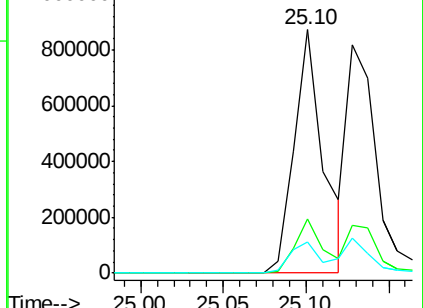
125 12.7 10.5 15.7

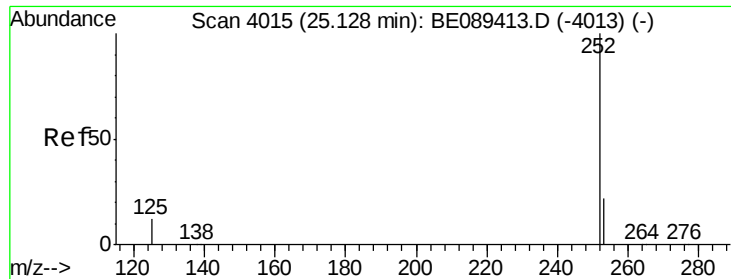


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Benzo(k)fluoranthene

Concen: 7.28 ng

RT: 25.13 min Scan# 4014

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

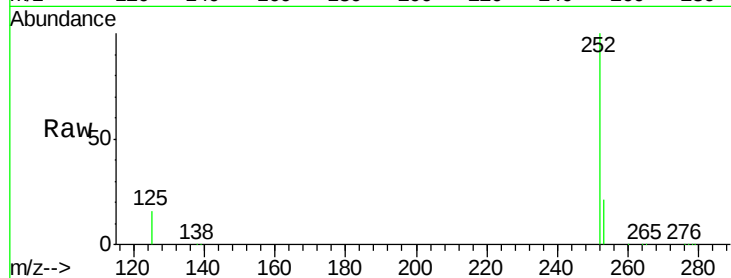
Tgt Ion:252 Resp: 1069736

Ion Ratio Lower Upper

252 100

253 21.2 17.4 26.2

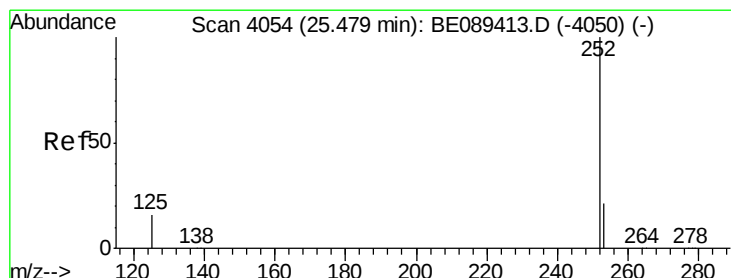
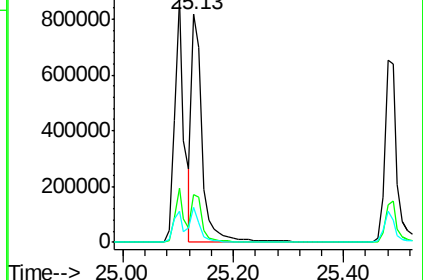
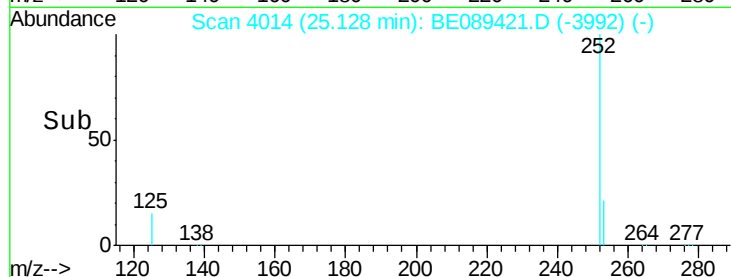
125 15.6 11.0 16.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#30

Benzo(a)pyrene

Concen: 15.18 ng

RT: 25.48 min Scan# 4053

Delta R.T. 0.00 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

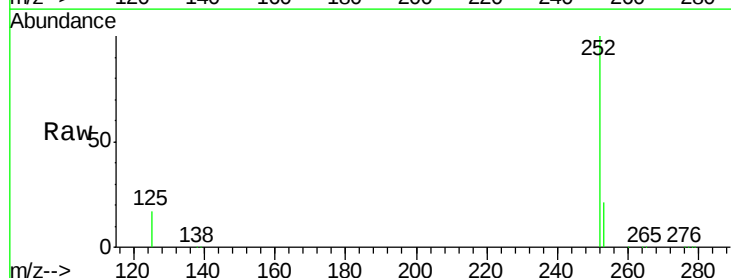
Tgt Ion:252 Resp: 1045760

Ion Ratio Lower Upper

252 100

253 20.9 17.3 25.9

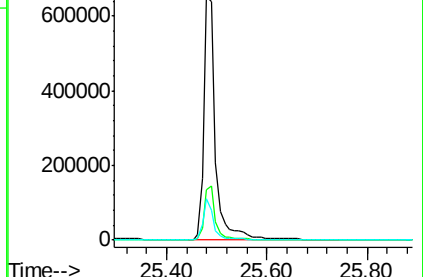
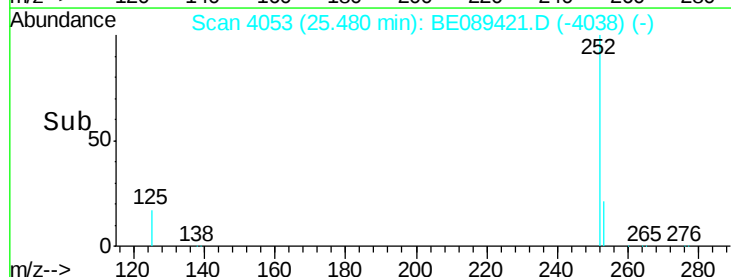
125 17.2 13.0 19.6

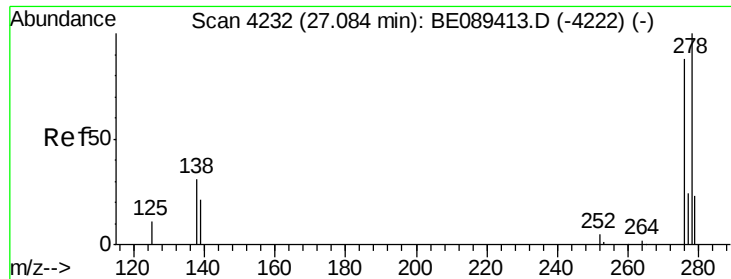


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 16.39 ng

RT: 27.10 min Scan# 4233

Delta R.T. 0.02 min

Lab File: BE089421.D

Acq: 29 Jan 2015 19:44

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

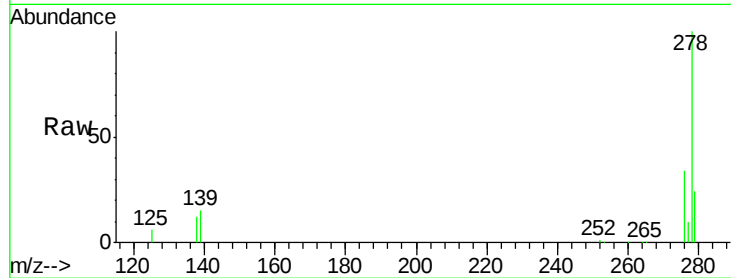
Tgt Ion: 278 Resp: 1125396

Ion Ratio Lower Upper

278 100

139 15.1 17.2 25.8#

279 24.2 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

