

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089477.D
 Acq On : 3 Feb 2015 23:29
 Operator : TP/IZ
 Sample : G1110-08MSD
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-48MSD

Quant Time: Feb 04 02:42:07 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:53:32 2015
 Response via : Initial Calibration

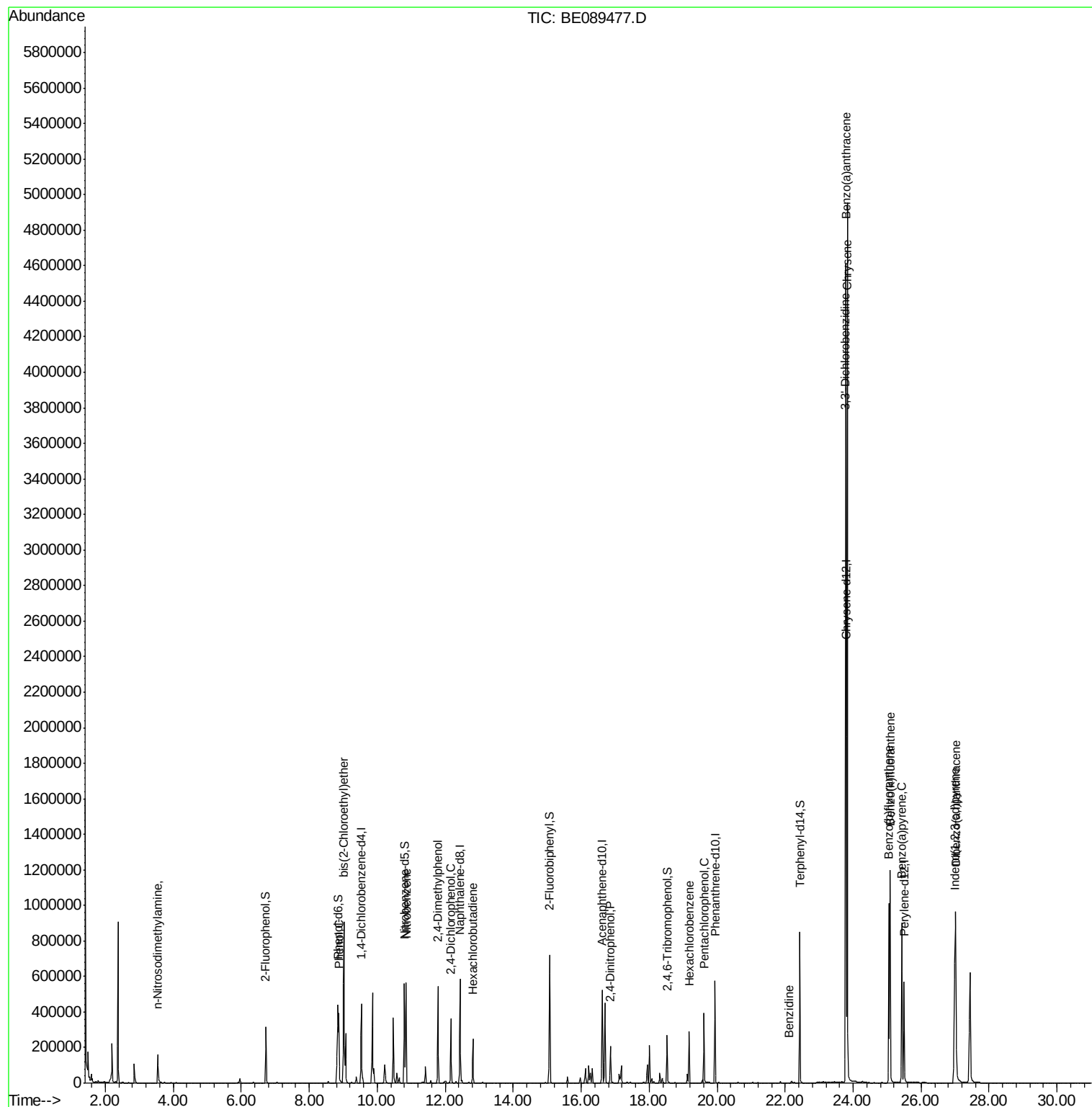
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.53	152	185585	5.00	ng	0.00
7) Naphthalene-d8	12.44	136	742593	5.00	ng	0.00
13) Acenaphthene-d10	16.62	164	347532	5.00	ng	0.01
17) Phenanthrene-d10	19.94	188	586623	5.00	ng	0.00
20) Chrysene-d12	23.80	240	530871	5.00	ng	0.02
27) Perylene-d12	25.50	264	496297	5.00	ng	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	6.73	112	228993	3.82	ng	0.00
4) Phenol-d6	8.85	99	186177	2.47	ng	0.00
8) Nitrobenzene-d5	10.80	82	460593	8.20	ng	0.02
14) 2,4,6-Tribromophenol	18.53	330	147046	9.77	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	671028	7.33	ng	0.00
22) Terphenyl-d14	22.43	244	720706	9.58	ng	0.00
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.53	42	104283	2.82	ng	# 77
5) Phenol	8.88	94	199179	2.42	ng	# 65
6) bis(2-Chloroethyl)ether	9.01	93	417774	7.01	ng	# 98
9) Nitrobenzene	10.85	77	499223	7.77	ng	99
10) 2,4-Dimethylphenol	11.79	122	274825	5.91	ng	97
11) 2,4-Dichlorophenol	12.17	162	244477	7.12	ng	86
12) Hexachlorobutadiene	12.81	225	150960	6.58	ng	99
16) 2,4-Dinitrophenol	16.86	184	126050	14.58	ng	# 79
18) Hexachlorobenzene	19.18	284	237657	7.83	ng	# 82
19) Pentachlorophenol	19.62	266	231535	15.65	ng	97
21) Benzidine	22.12	184	17	0.09	ng	# 1
23) Benzo(a)anthracene	23.78	228	3961738	8.40	ng	98
24) 3,3'-Dichlorobenzidine	23.77	252	27097	0.72	ng	# 92
25) Chrysene	23.83	228	3653614	7.43	ng	94
26) Indeno(1,2,3-cd)pyrene	26.99	276	1141538	8.22	ng	99
28) Benzo(b)fluoranthene	25.06	252	949018	8.35	ng	97
29) Benzo(k)fluoranthene	25.09	252	974109	7.57	ng	99
30) Benzo(a)pyrene	25.43	252	917406	8.27	ng	97
31) Dibenzo(a,h)anthracene	27.02	278	1006169	8.55	ng	96

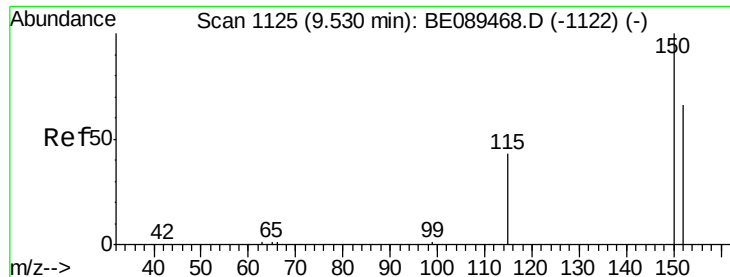
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 04 02:42:07 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. -0.00 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

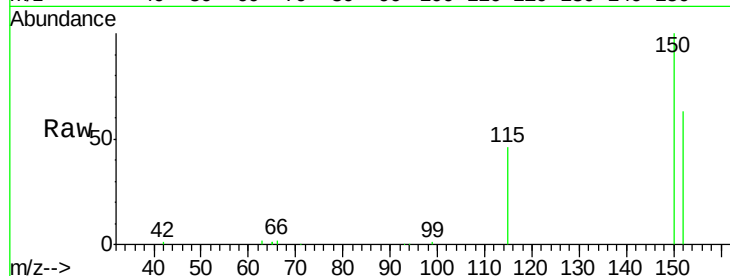
Tgt Ion:152 Resp: 185585

Ion Ratio Lower Upper

152 100

150 159.2 122.1 183.1

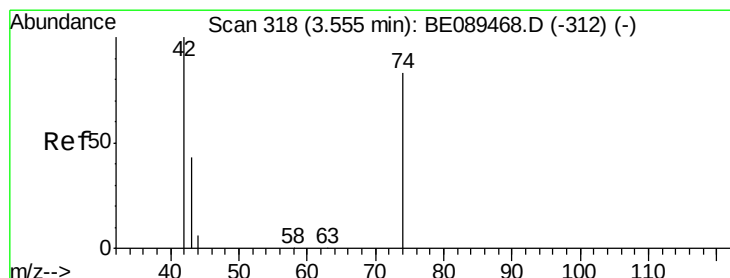
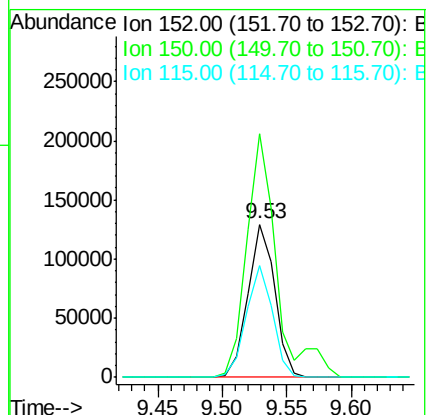
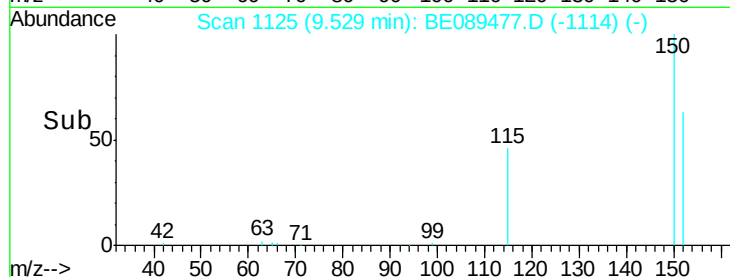
115 73.2 53.2 79.8



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: 2.82 ng

RT: 3.53 min Scan# 315

Delta R.T. -0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

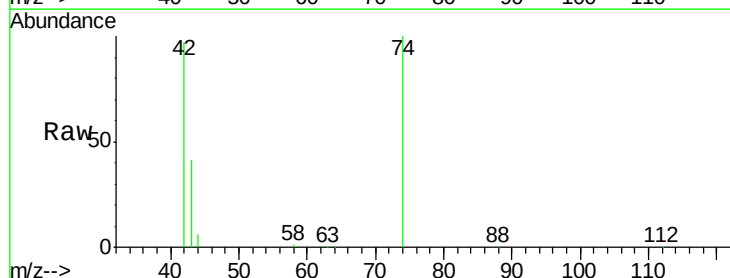
Tgt Ion: 42 Resp: 104283

Ion Ratio Lower Upper

42 100

74 102.9 65.4 98.2#

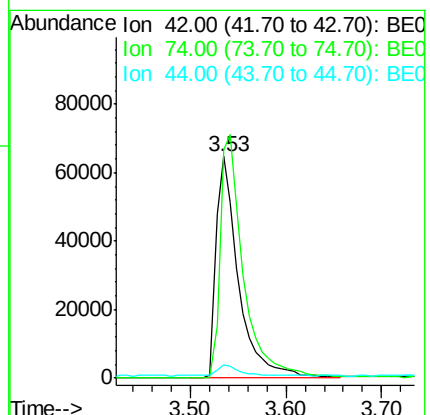
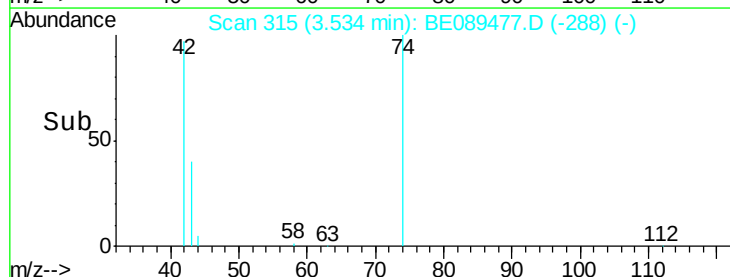
44 5.9 11.7 17.5#

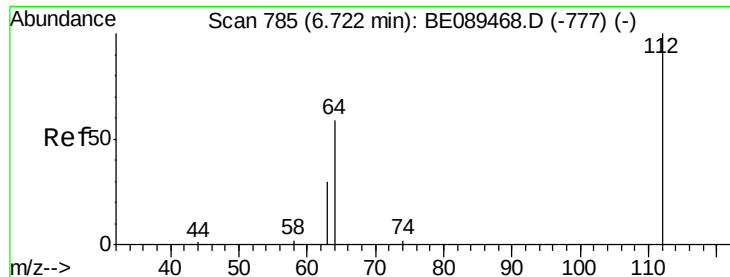


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 3.82 ng

RT: 6.73 min Scan# 786

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

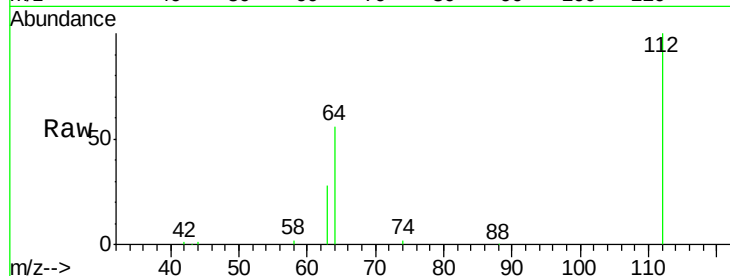
Tgt Ion: 112 Resp: 228993

Ion Ratio Lower Upper

112 100

64 55.8 47.0 70.6

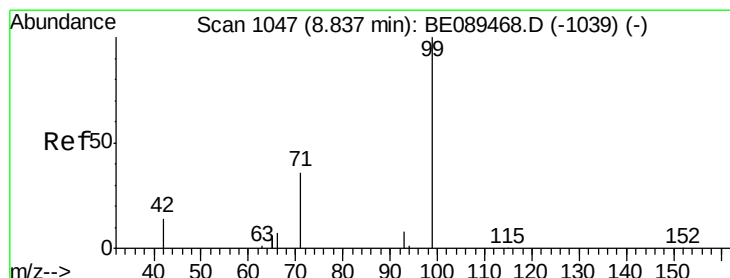
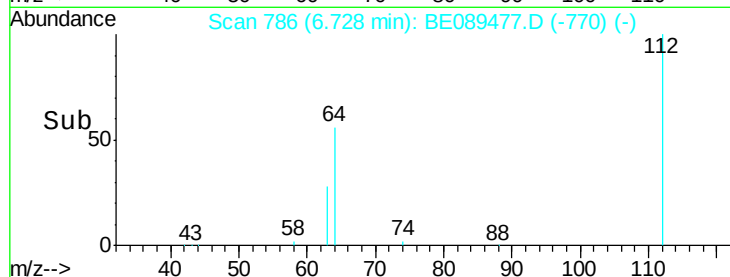
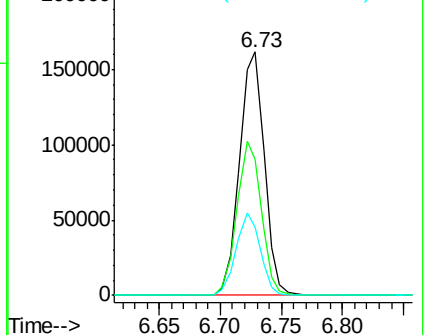
63 28.2 24.2 36.2



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: 2.47 ng

RT: 8.85 min Scan# 1048

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

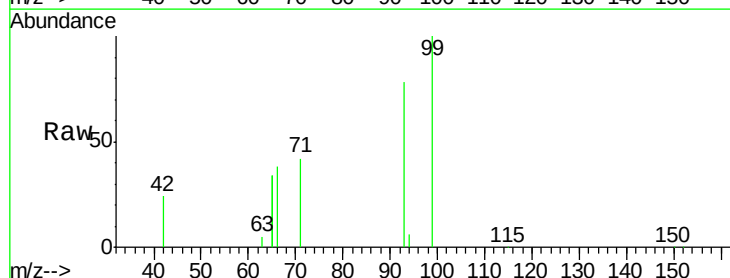
Tgt Ion: 99 Resp: 186177

Ion Ratio Lower Upper

99 100

42 23.6 11.8 17.6#

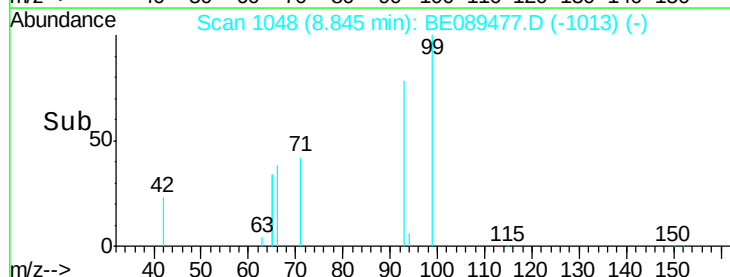
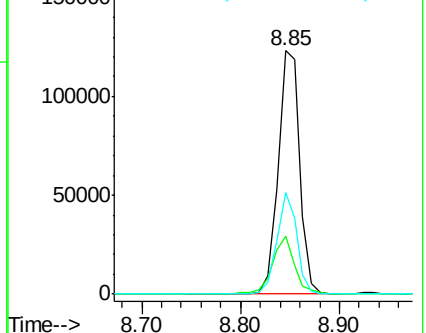
71 41.7 28.7 43.1

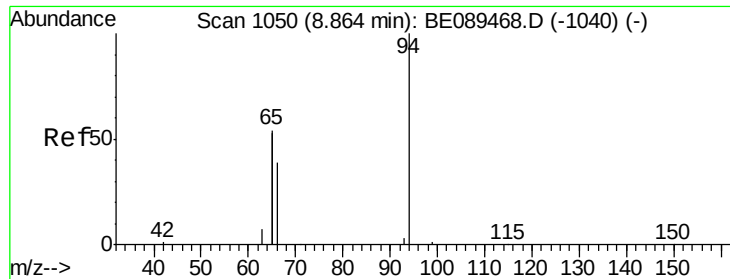


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 2.42 ng

RT: 8.88 min Scan# 1052

Delta R.T. 0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

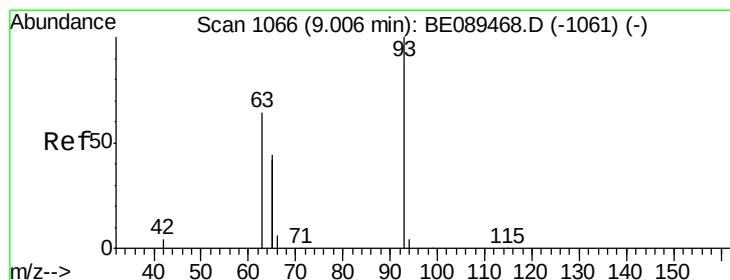
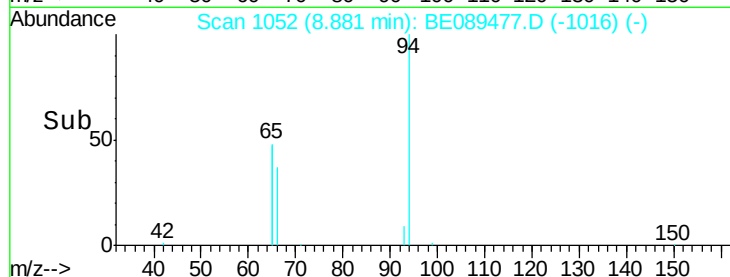
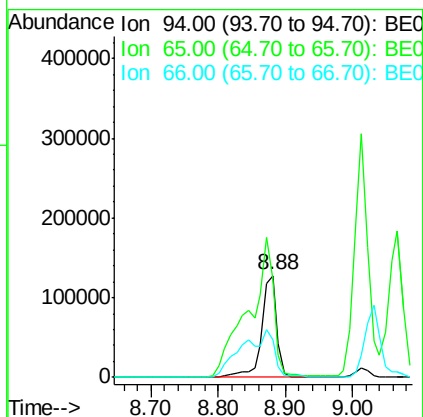
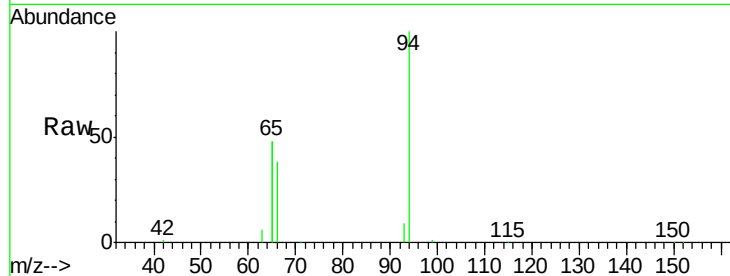
BNA_E

ClientSampleId :

MW-48MSD

Tgt Ion: 94 Resp: 199179

Ion	Ratio	Lower	Upper
94	100		
65	95.9	33.9	73.9#
66	37.5	19.1	59.1



#6

bis(2-Chloroethyl)ether

Concen: 7.01 ng

RT: 9.01 min Scan# 1067

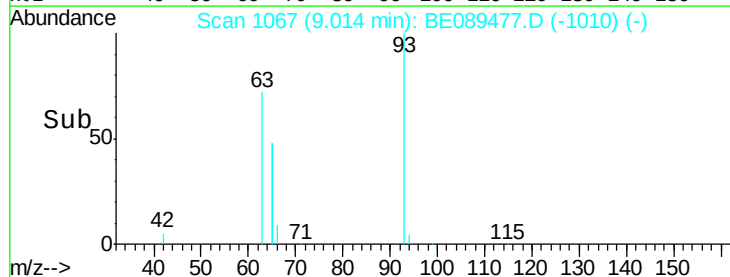
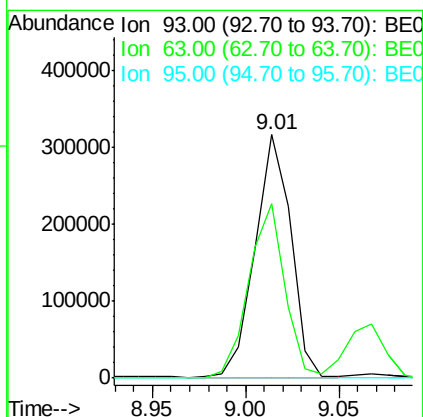
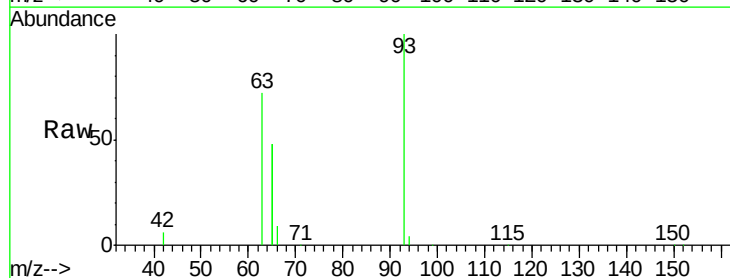
Delta R.T. 0.01 min

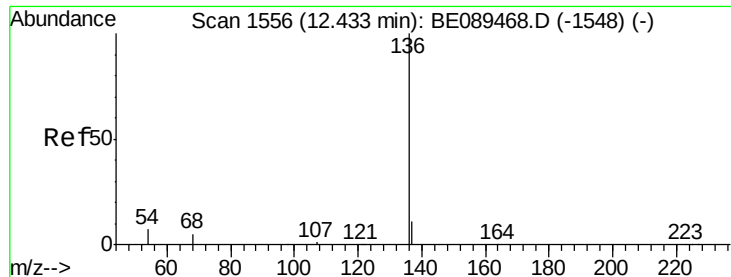
Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Tgt Ion: 93 Resp: 417774

Ion	Ratio	Lower	Upper
93	100		
63	72.6	57.0	85.6
95	0.0	0.0	0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.44 min Scan# 1557

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

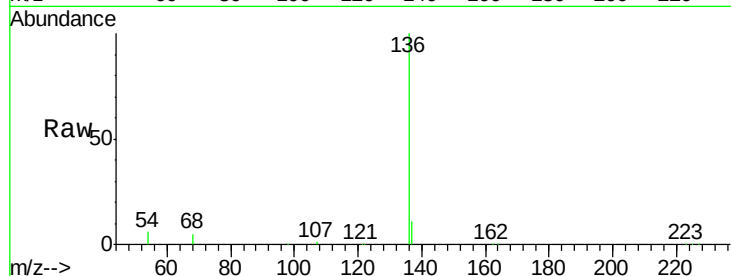
Tgt Ion: 136 Resp: 742593

Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

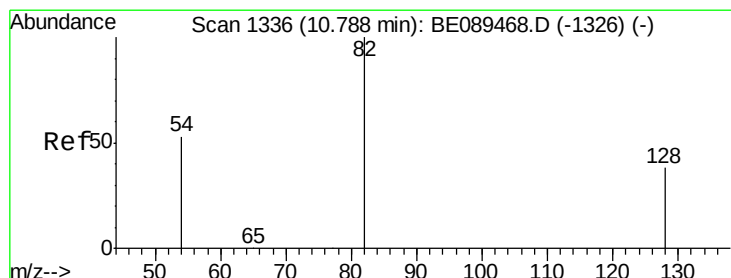
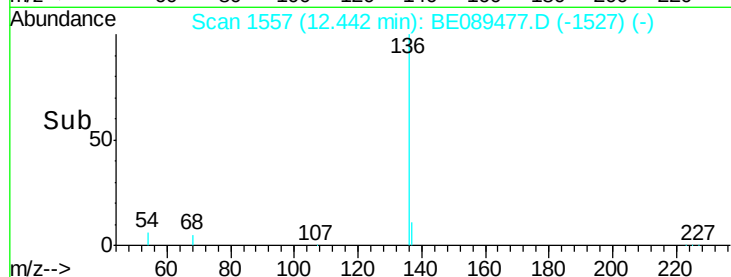
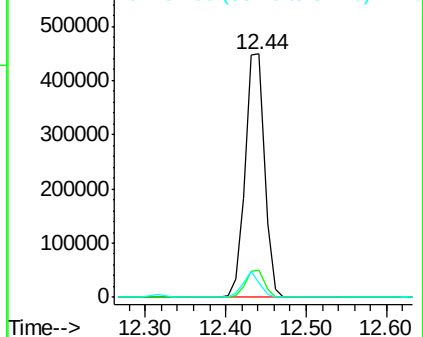
54 6.2 5.4 8.0



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: 8.20 ng

RT: 10.80 min Scan# 1339

Delta R.T. 0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

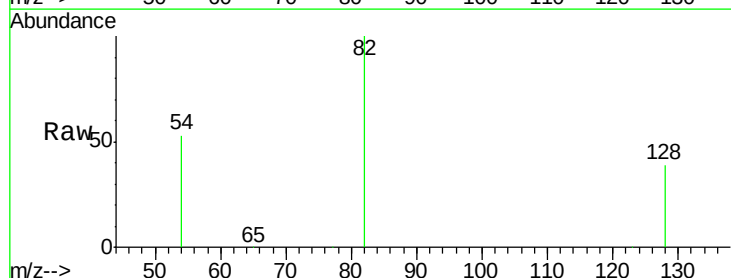
Tgt Ion: 82 Resp: 460593

Ion Ratio Lower Upper

82 100

128 39.2 30.3 45.5

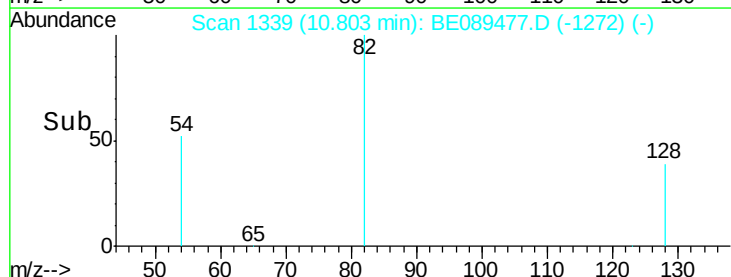
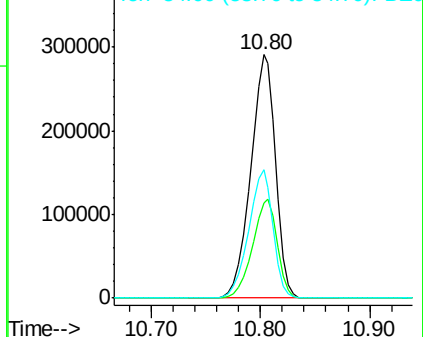
54 52.5 43.1 64.7

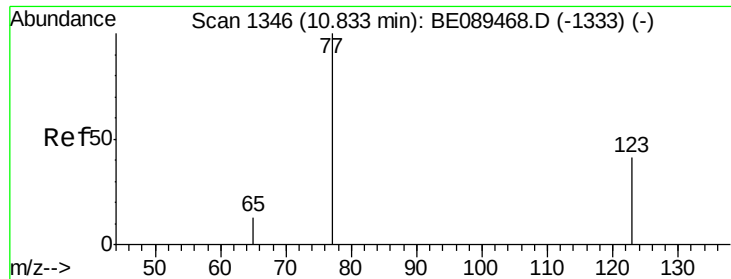


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.77 ng

RT: 10.85 min Scan# 1349

Delta R.T. 0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

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ClientSampleId :

MW-48MSD

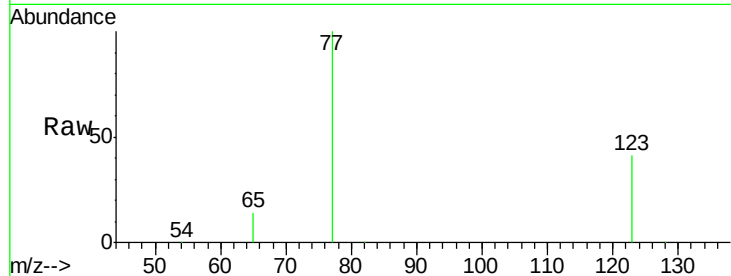
Tgt Ion: 77 Resp: 499223

Ion Ratio Lower Upper

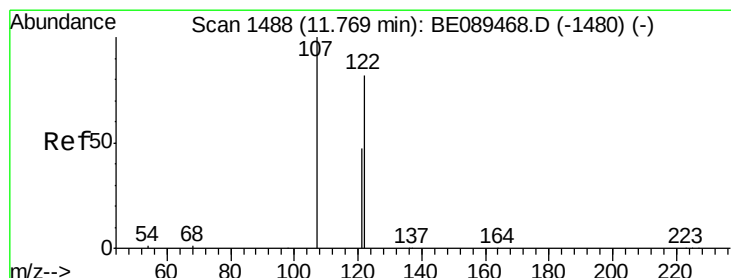
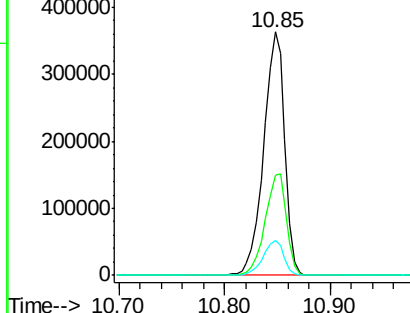
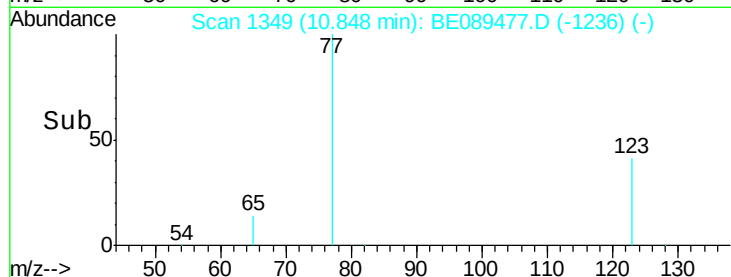
77 100

123 42.4 33.4 50.0

65 14.4 10.9 16.3



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: 5.91 ng

RT: 11.79 min Scan# 1490

Delta R.T. 0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

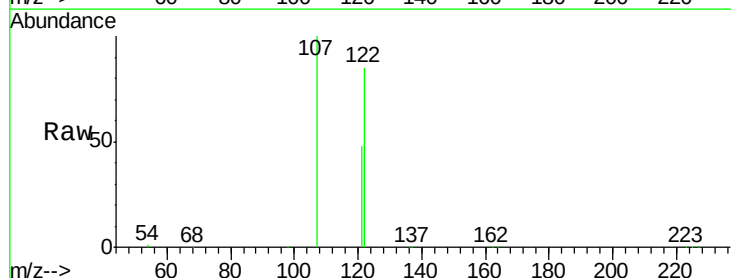
Tgt Ion: 122 Resp: 274825

Ion Ratio Lower Upper

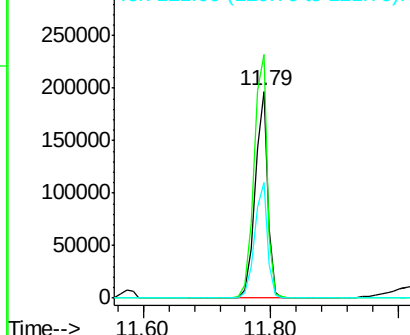
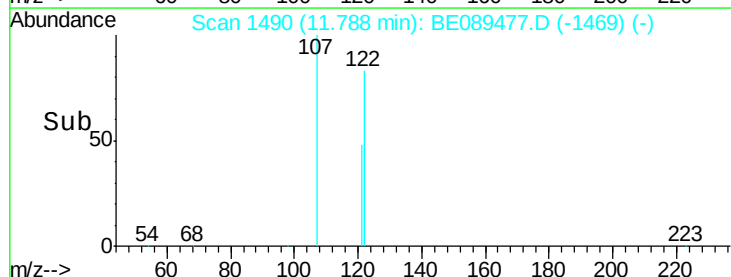
122 100

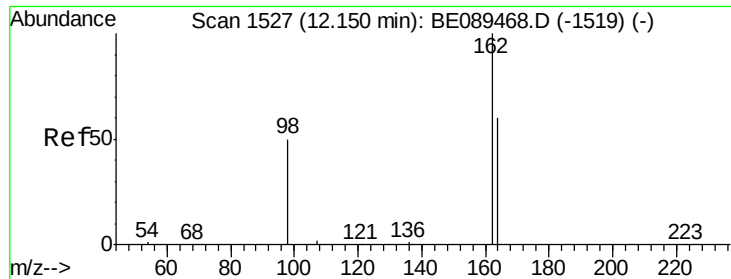
107 117.6 97.3 145.9

121 56.0 46.4 69.6



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

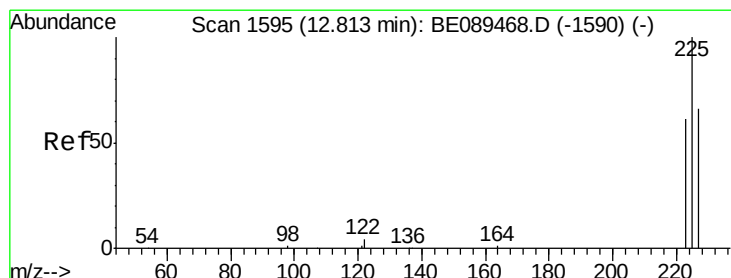
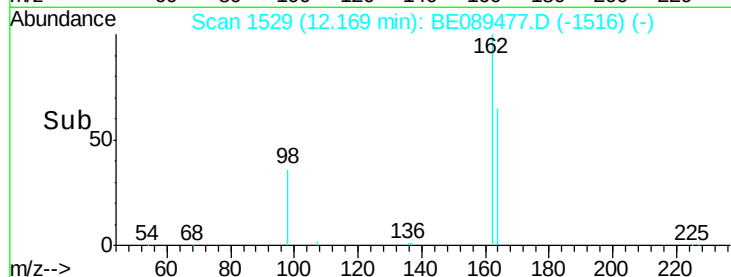
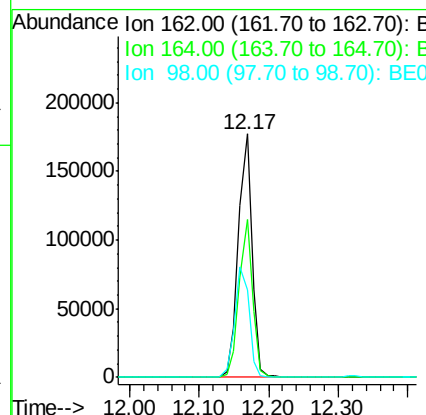
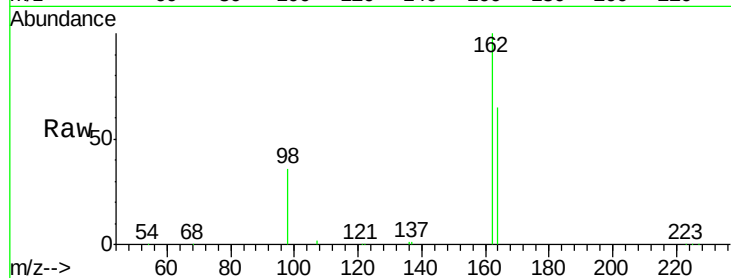




#11
 2,4-Dichlorophenol
 Concen: 7.12 ng
 RT: 12.17 min Scan# 1529
 Delta R.T. 0.02 min
 Lab File: BE089477.D
 Acq: 3 Feb 2015 23:29

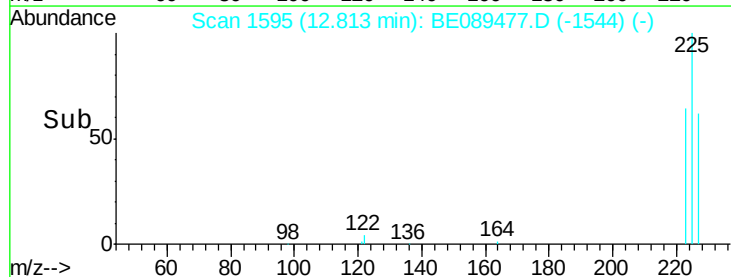
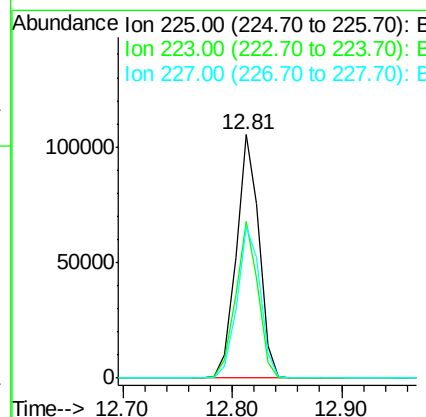
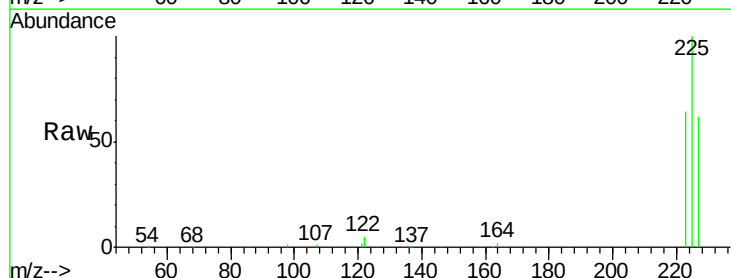
Instrument :
 BNA_E
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 MW-48MSD

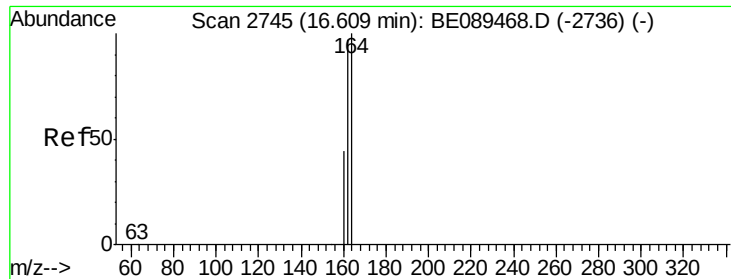
Tgt Ion:162 Resp: 244477
 Ion Ratio Lower Upper
 162 100
 164 64.7 39.9 79.9
 98 36.1 31.3 71.3



#12
 Hexachlorobutadiene
 Concen: 6.58 ng
 RT: 12.81 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: BE089477.D
 Acq: 3 Feb 2015 23:29

Tgt Ion:225 Resp: 150960
 Ion Ratio Lower Upper
 225 100
 223 63.2 49.4 74.0
 227 63.7 51.2 76.8

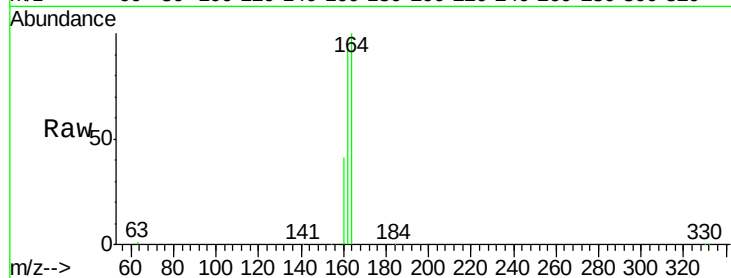




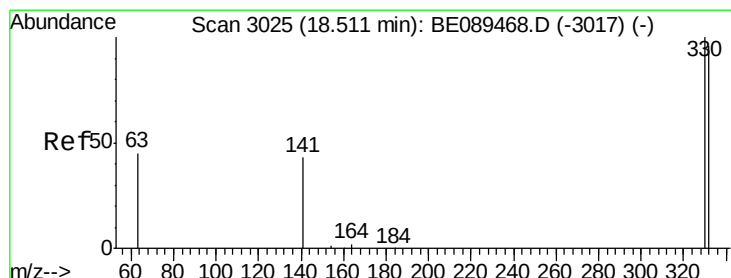
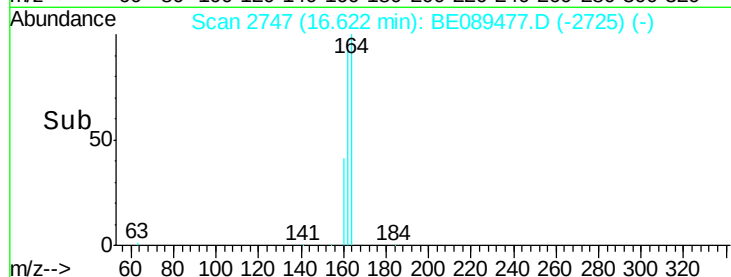
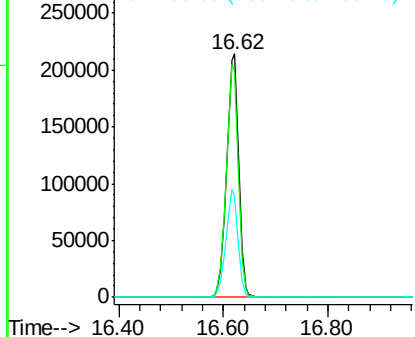
#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.62 min Scan# 2747
Delta R.T. 0.01 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

Instrument :
BNA_E
ClientSampleId :
MW-48MSD

Tgt Ion:164 Resp: 347532
Ion Ratio Lower Upper
164 100
162 92.7 77.6 116.4
160 41.2 35.6 53.4

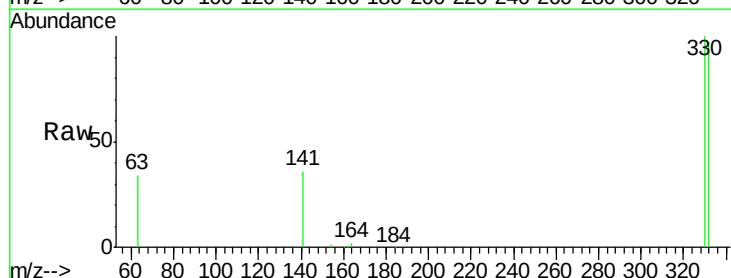


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

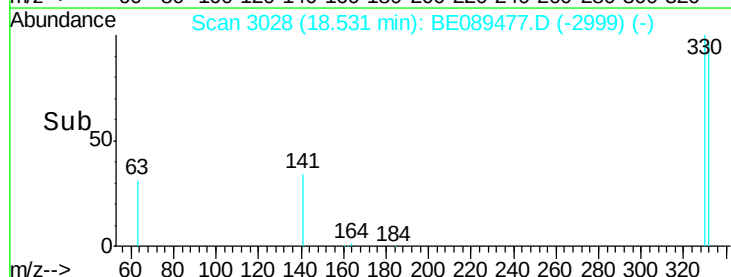
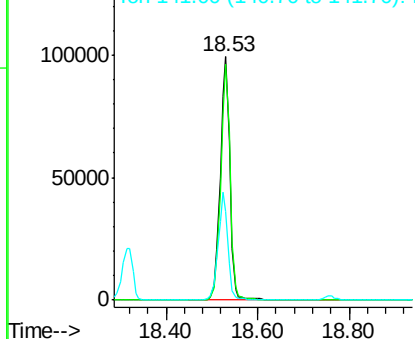


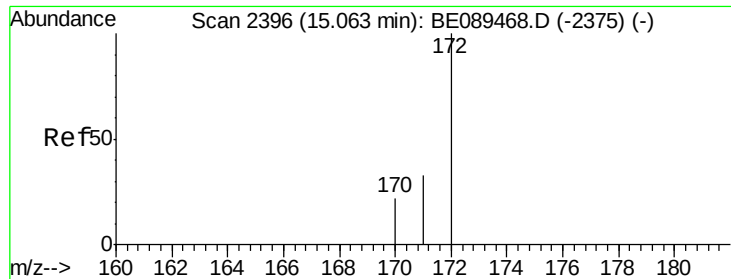
#14
2,4,6-Tribromophenol
Concen: 9.77 ng
RT: 18.53 min Scan# 3028
Delta R.T. 0.02 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

Tgt Ion:330 Resp: 147046
Ion Ratio Lower Upper
330 100
332 95.8 78.0 117.0
141 44.0 33.8 50.6



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

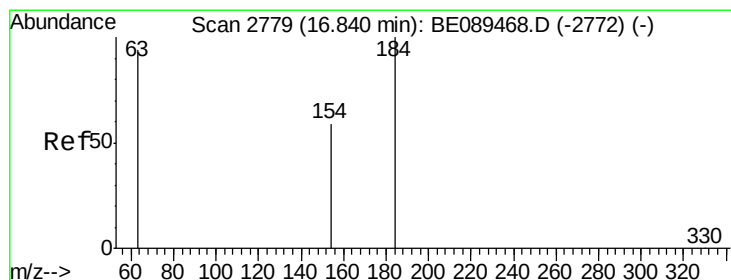
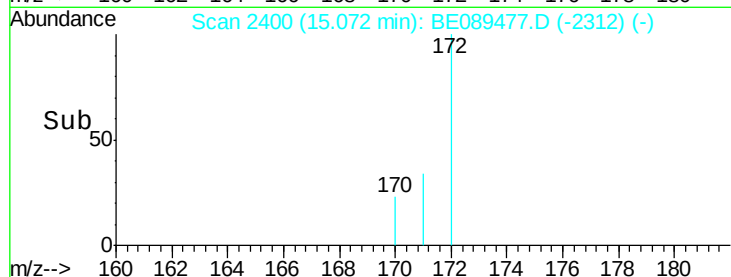
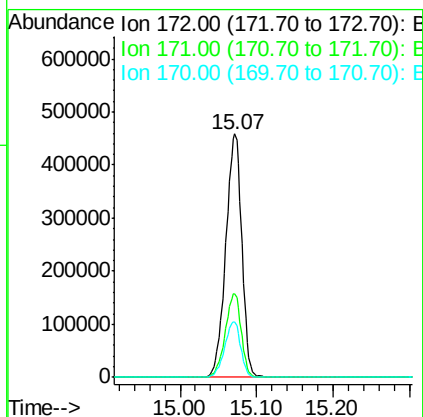
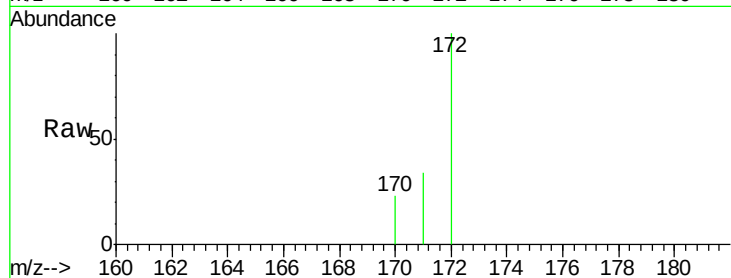




#15
2-Fluorobiphenyl
Concen: 7.33 ng
RT: 15.07 min Scan# 2400
Delta R.T. 0.01 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

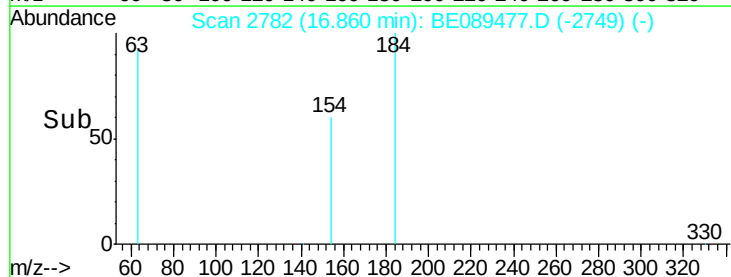
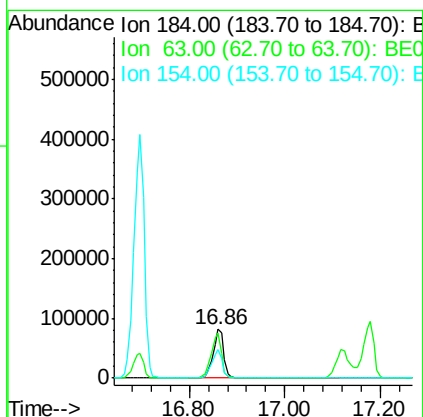
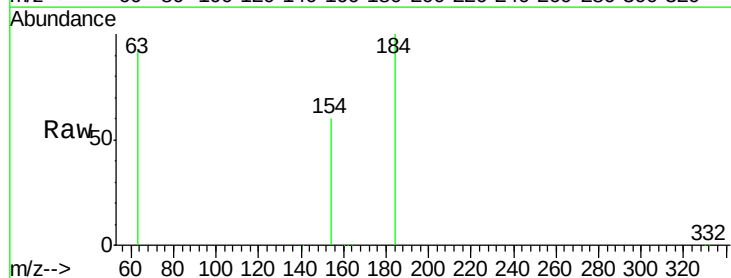
Instrument :
BNA_E
ClientSampleId :
MW-48MSD

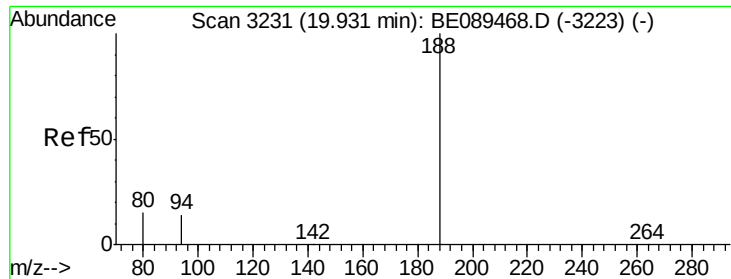
Tgt Ion:172 Resp: 671028
Ion Ratio Lower Upper
172 100
171 34.3 26.8 40.2
170 22.8 17.7 26.5



#16
2,4-Dinitrophenol
Concen: 14.58 ng
RT: 16.86 min Scan# 2782
Delta R.T. 0.02 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

Tgt Ion:184 Resp: 126050
Ion Ratio Lower Upper
184 100
63 92.3 92.1 138.1
154 59.7 61.4 92.2#

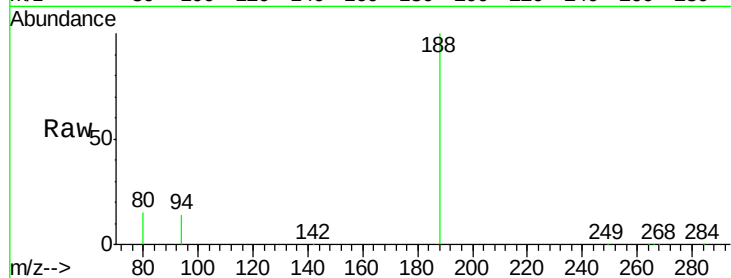




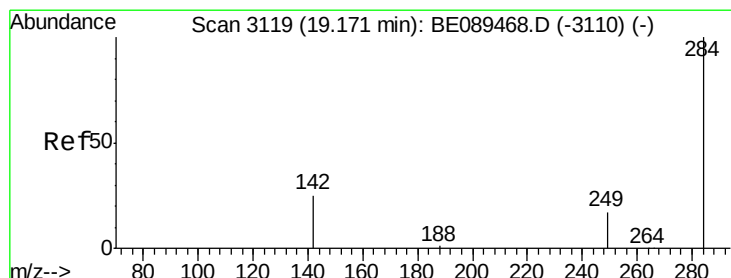
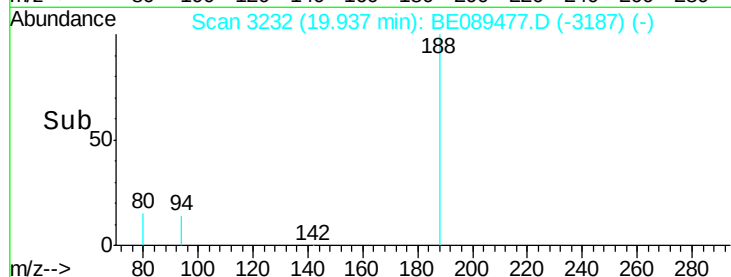
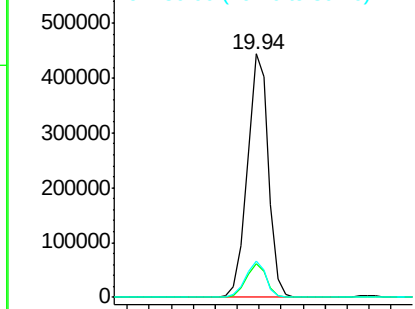
#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.94 min Scan# 3232
Delta R.T. 0.01 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

Instrument :
BNA_E
ClientSampleId :
MW-48MSD

Tgt Ion:188 Resp: 586623
Ion Ratio Lower Upper
188 100
94 14.0 11.1 16.7
80 15.1 11.8 17.6

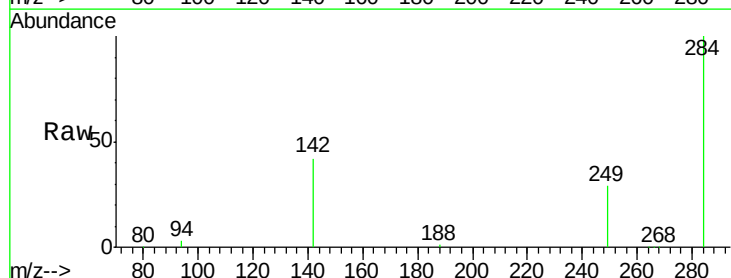


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

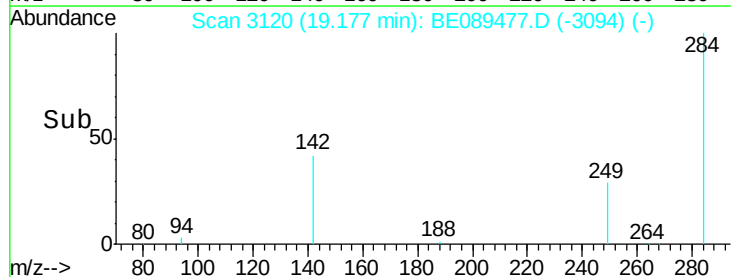
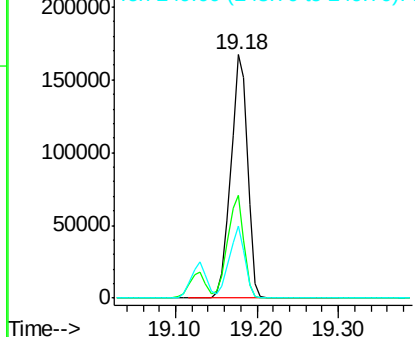


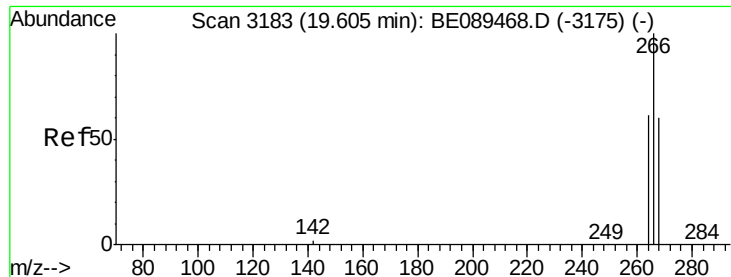
#18
Hexachlorobenzene
Concen: 7.83 ng
RT: 19.18 min Scan# 3120
Delta R.T. 0.01 min
Lab File: BE089477.D
Acq: 3 Feb 2015 23:29

Tgt Ion:284 Resp: 237657
Ion Ratio Lower Upper
284 100
142 42.0 24.4 36.6#
249 29.4 18.2 27.2#



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: 15.65 ng

RT: 19.62 min Scan# 3185

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

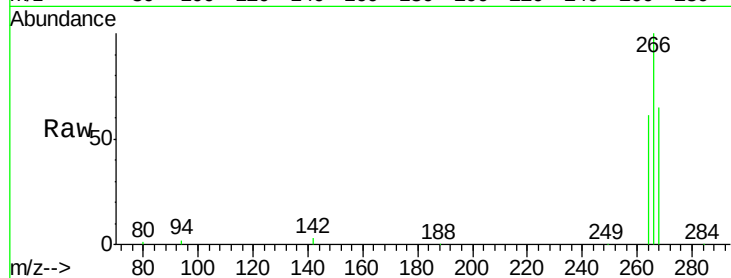
Tgt Ion:266 Resp: 231535

Ion Ratio Lower Upper

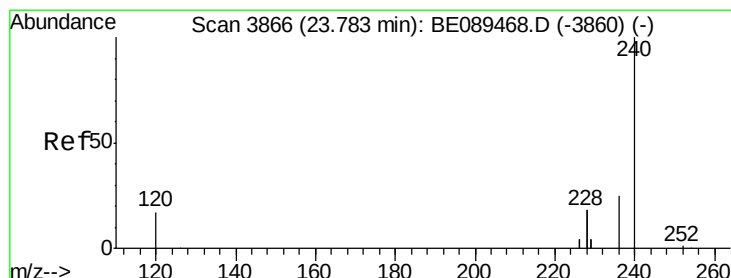
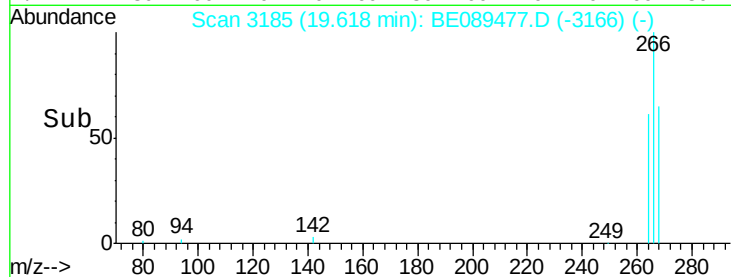
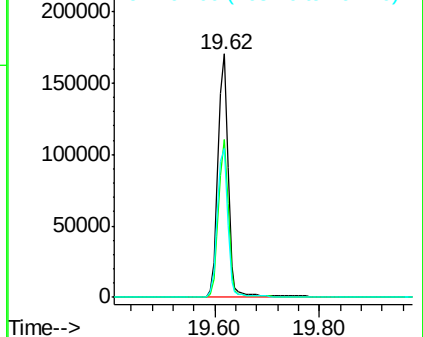
266 100

268 64.6 50.0 75.0

264 61.1 50.6 75.8



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



#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.80 min Scan# 3867

Delta R.T. 0.02 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

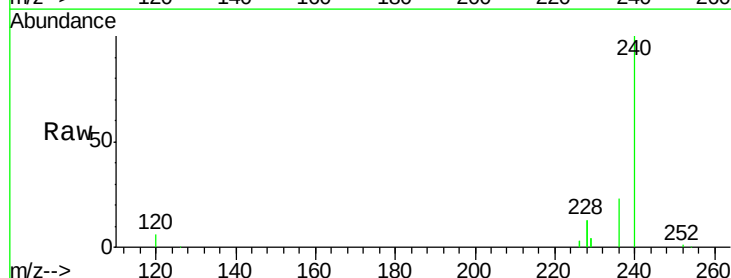
Tgt Ion:240 Resp: 530871

Ion Ratio Lower Upper

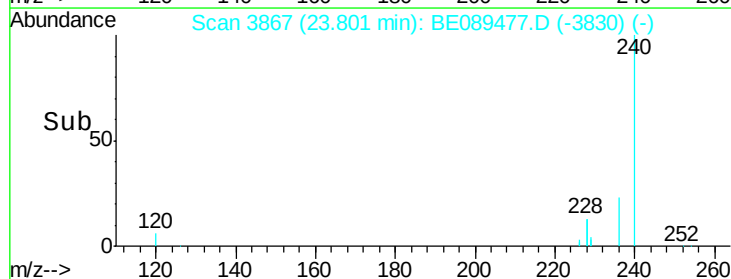
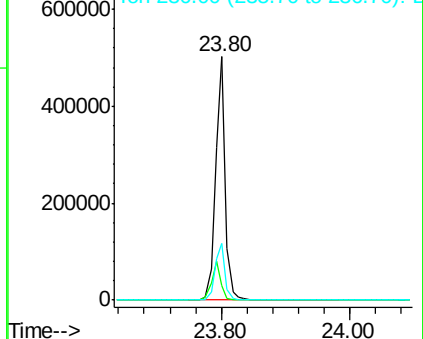
240 100

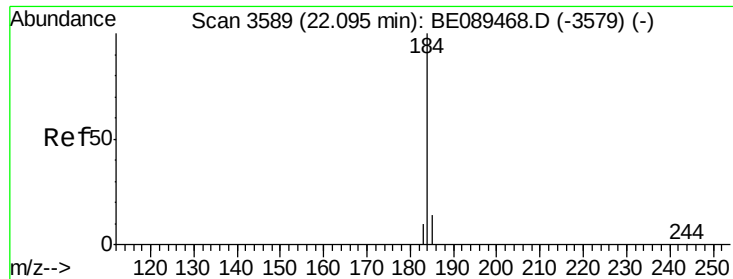
120 6.0 13.8 20.6#

236 23.3 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#21

Benzidine

Concen: 0.09 ng

RT: 22.12 min Scan# 3595

Delta R.T. 0.03 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

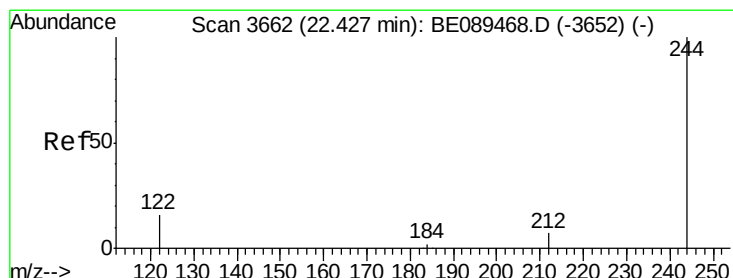
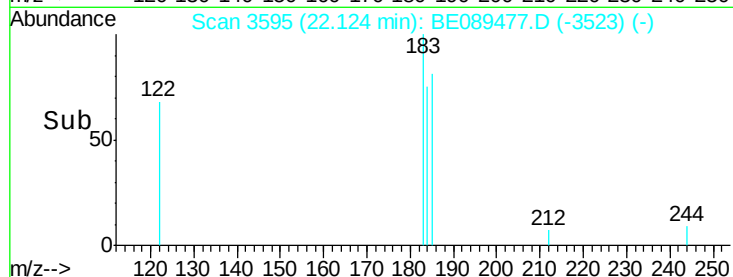
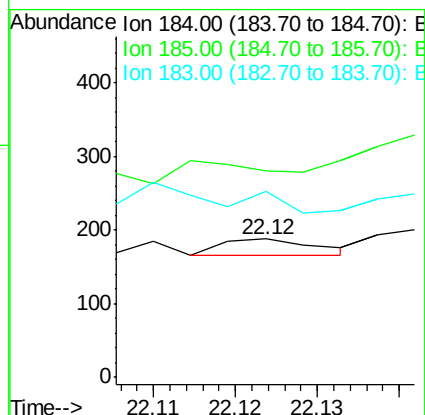
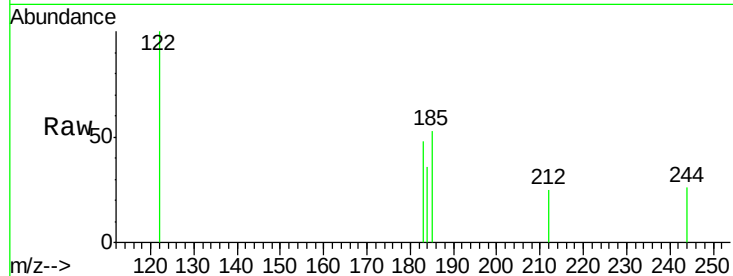
Tgt Ion:184 Resp: 17

Ion Ratio Lower Upper

184 100

185 149.5 12.0 18.0#

183 134.0 9.0 13.4#



#22

Terphenyl-d14

Concen: 9.58 ng

RT: 22.43 min Scan# 3663

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

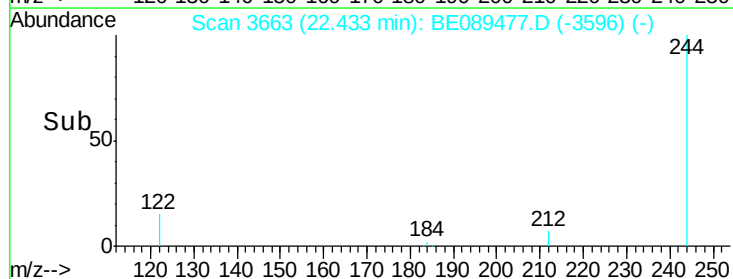
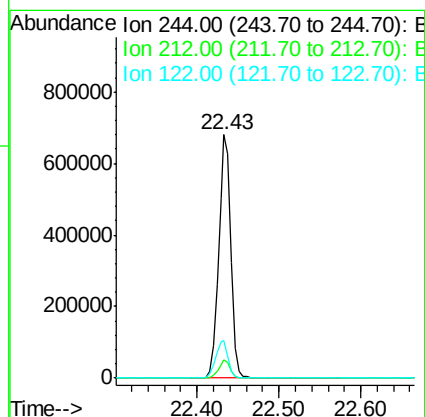
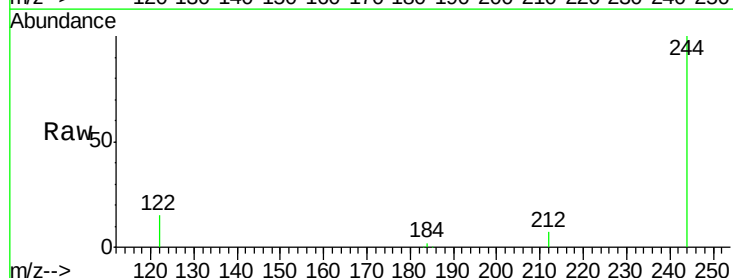
Tgt Ion:244 Resp: 720706

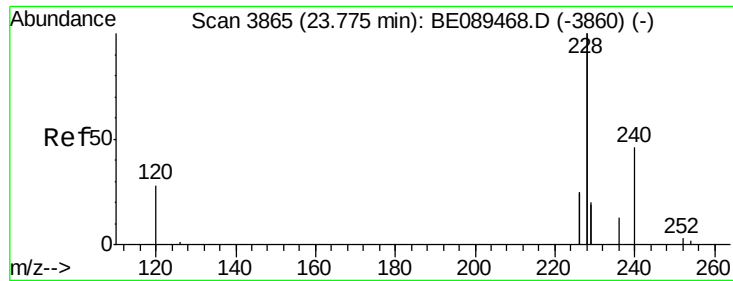
Ion Ratio Lower Upper

244 100

212 7.3 5.5 8.3

122 15.2 12.6 19.0





#23

Benzo(a)anthracene

Concen: 8.40 ng

RT: 23.78 min Scan# 3865

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

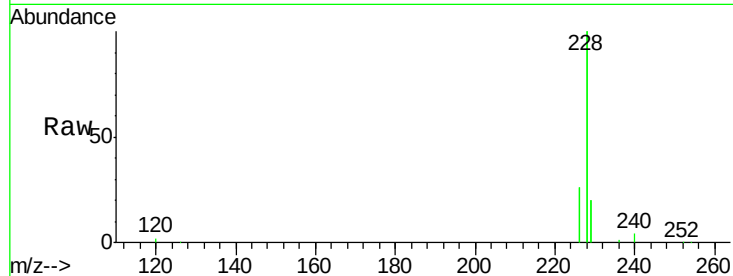
Tgt Ion:228 Resp: 3961738

Ion Ratio Lower Upper

228 100

226 25.7 19.6 29.4

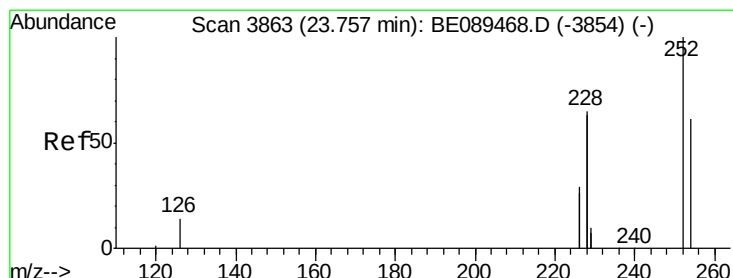
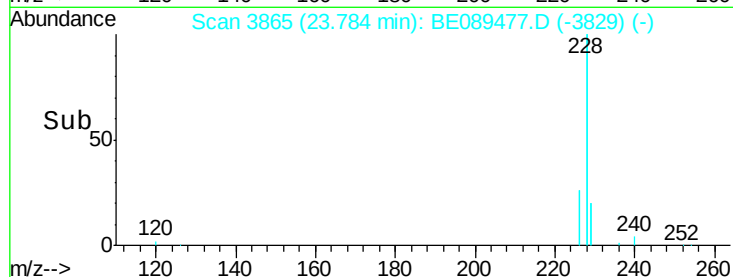
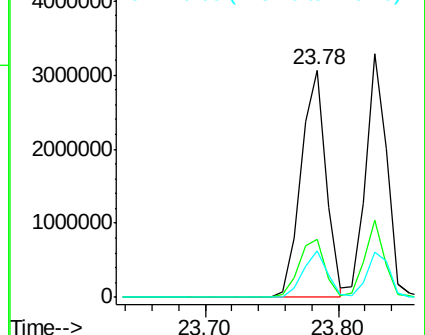
229 20.2 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

3,3'-Dichlorobenzidine

Concen: 0.72 ng

RT: 23.77 min Scan# 3863

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

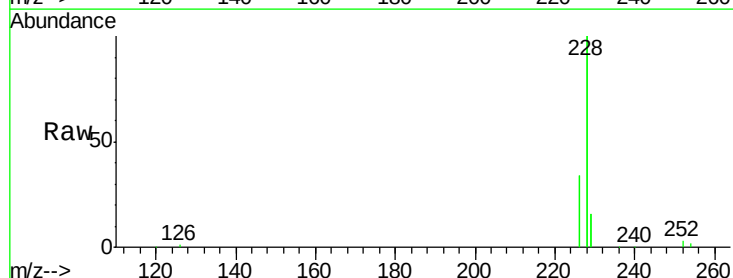
Tgt Ion:252 Resp: 27097

Ion Ratio Lower Upper

252 100

254 62.1 48.6 73.0

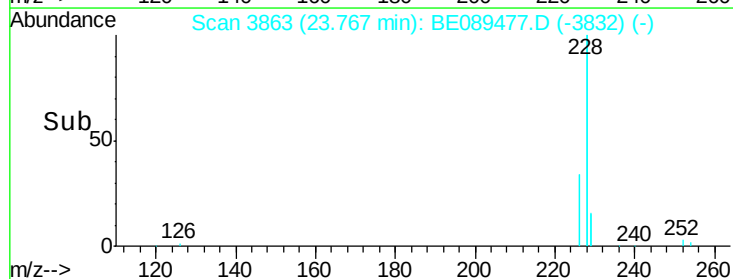
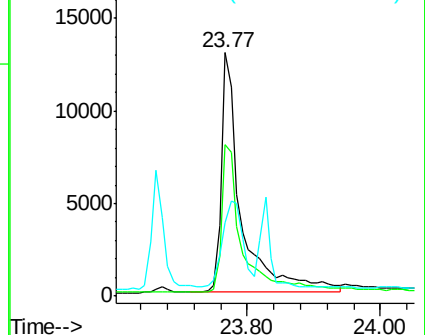
126 30.1 12.4 18.6#

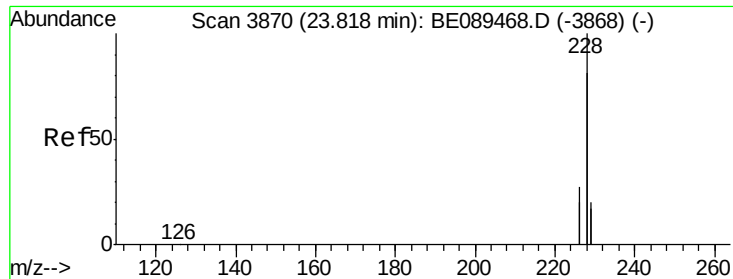


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 7.43 ng

RT: 23.83 min Scan# 3870

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

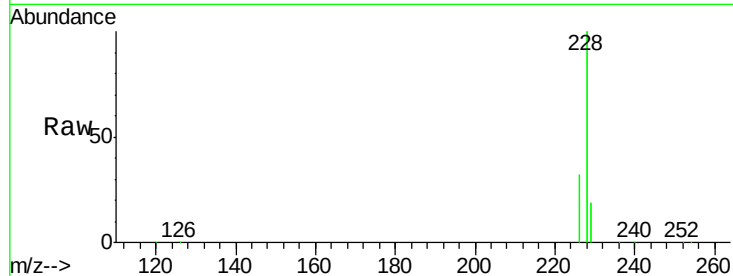
Tgt Ion:228 Resp: 3653614

Ion Ratio Lower Upper

228 100

226 31.6 21.8 32.8

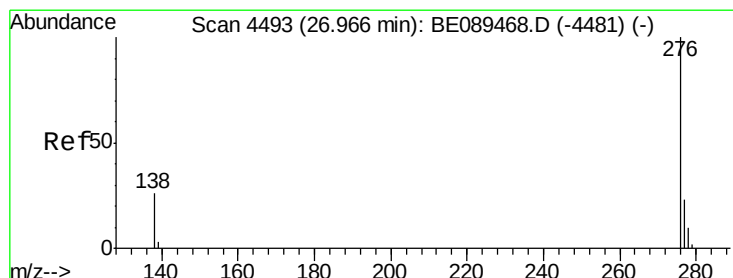
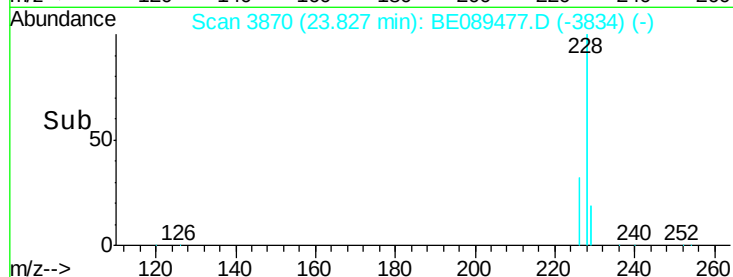
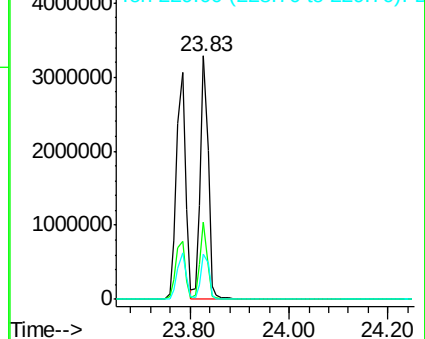
229 18.7 16.2 24.2



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: 8.22 ng

RT: 26.99 min Scan# 4498

Delta R.T. 0.03 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

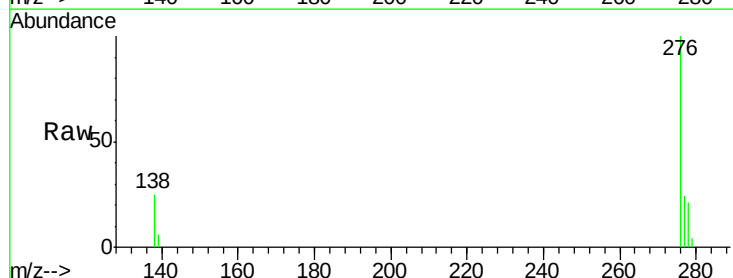
Tgt Ion:276 Resp: 1141538

Ion Ratio Lower Upper

276 100

138 29.7 24.2 36.4

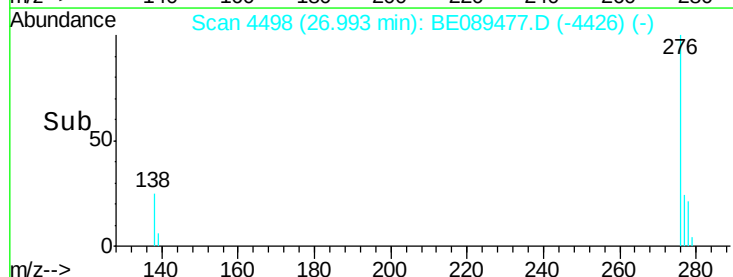
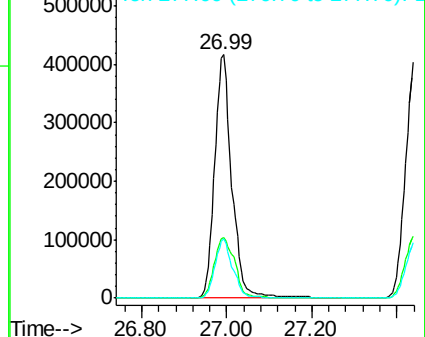
277 25.1 19.9 29.9

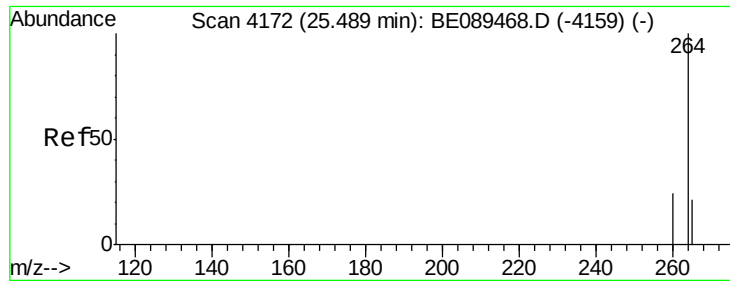


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

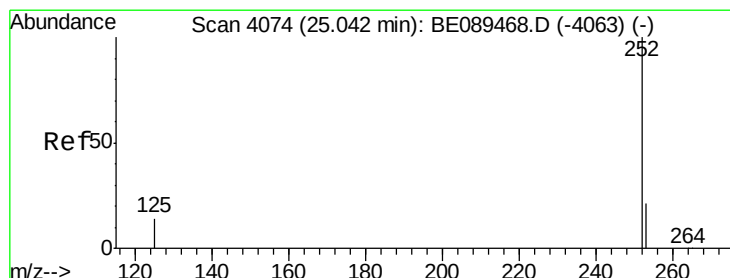
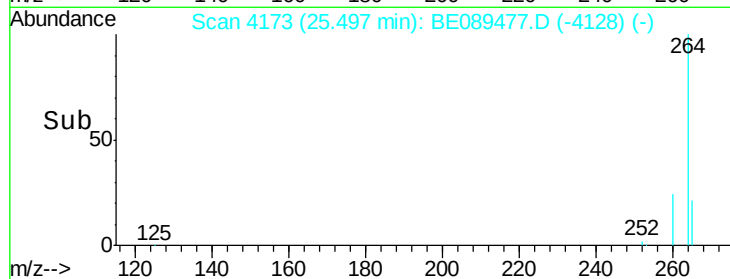
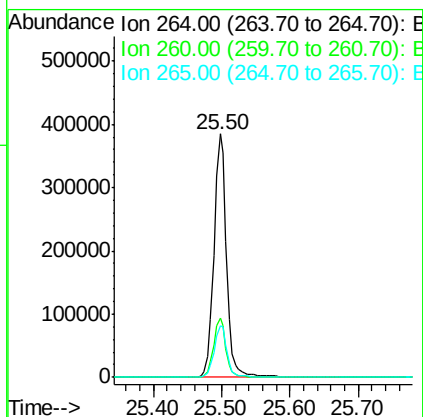
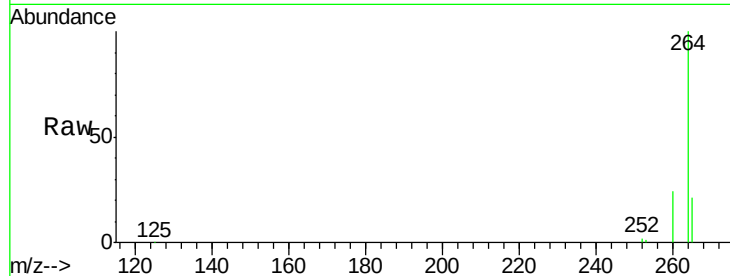




#27
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.50 min Scan# 4173
 Delta R.T. 0.01 min
 Lab File: BE089477.D
 Acq: 3 Feb 2015 23:29

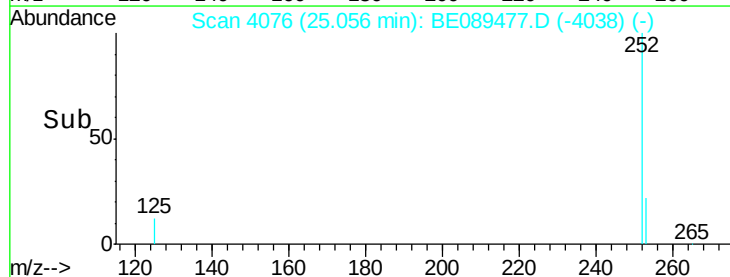
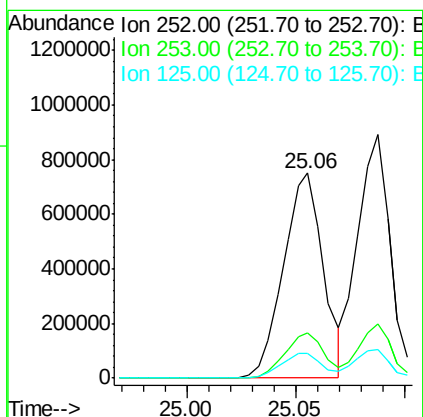
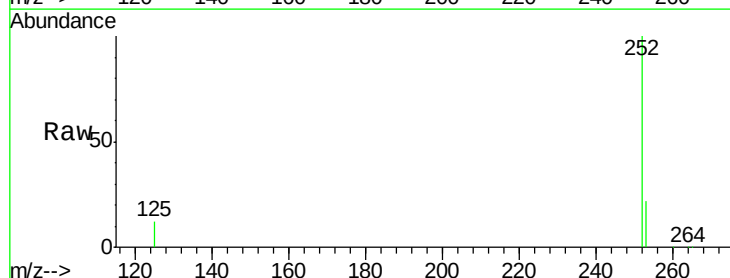
Instrument :
 BNA_E
 ClientSampleId :
 MW-48MSD

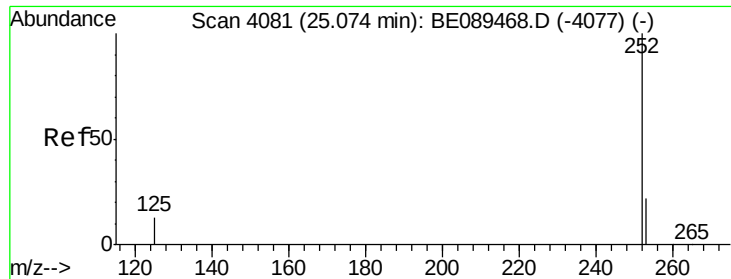
Tgt Ion: 264 Resp: 496297
 Ion Ratio Lower Upper
 264 100
 260 24.4 19.1 28.7
 265 21.4 17.0 25.6



#28
 Benzo(b)fluoranthene
 Concen: 8.35 ng
 RT: 25.06 min Scan# 4076
 Delta R.T. 0.01 min
 Lab File: BE089477.D
 Acq: 3 Feb 2015 23:29

Tgt Ion: 252 Resp: 949018
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.4 26.2
 125 12.1 11.3 16.9





#29

Benzo(k)fluoranthene

Concen: 7.57 ng

RT: 25.09 min Scan# 4083

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD

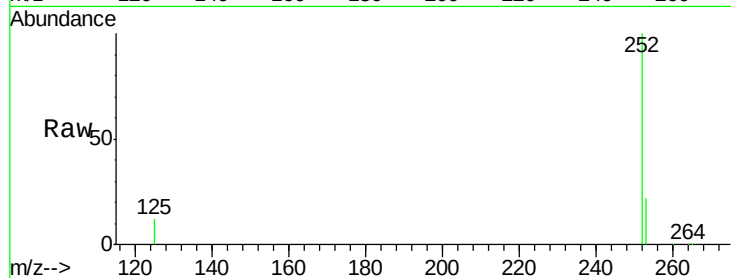
Tgt Ion:252 Resp: 974109

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

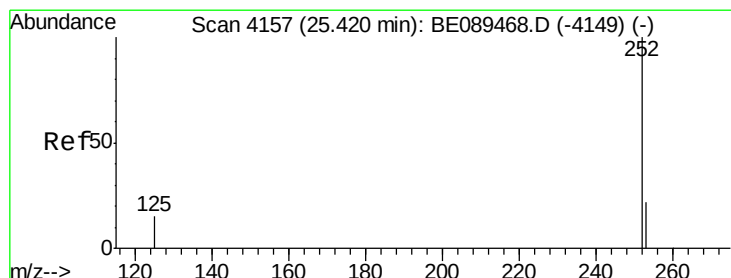
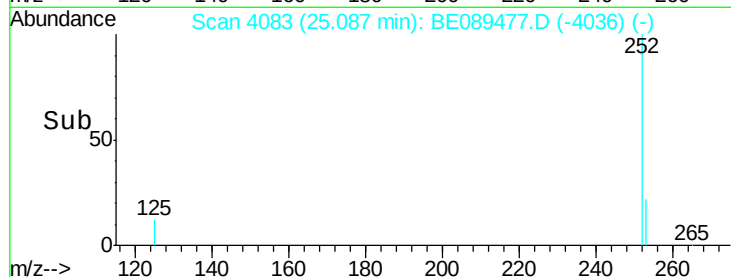
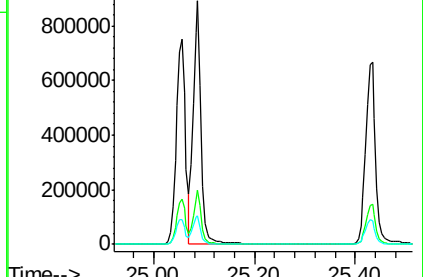
125 12.0 10.6 15.8



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



#30

Benzo(a)pyrene

Concen: 8.27 ng

RT: 25.43 min Scan# 4159

Delta R.T. 0.01 min

Lab File: BE089477.D

Acq: 3 Feb 2015 23:29

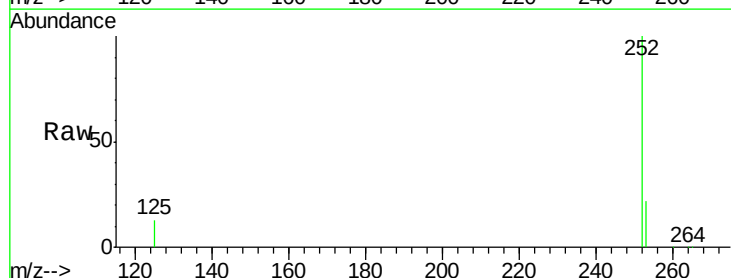
Tgt Ion:252 Resp: 917406

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

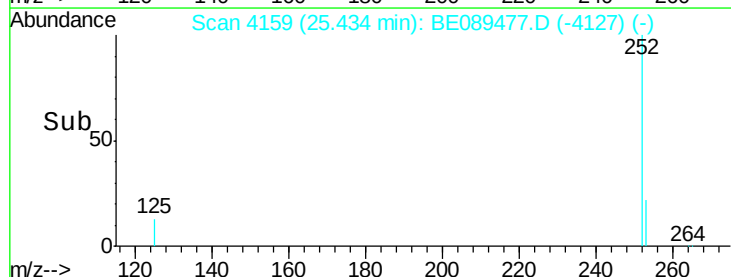
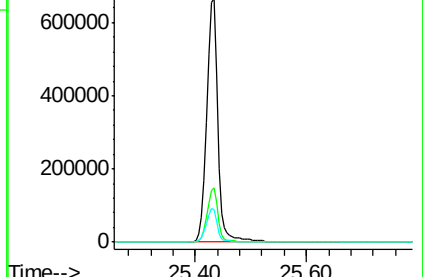
125 13.2 12.2 18.4

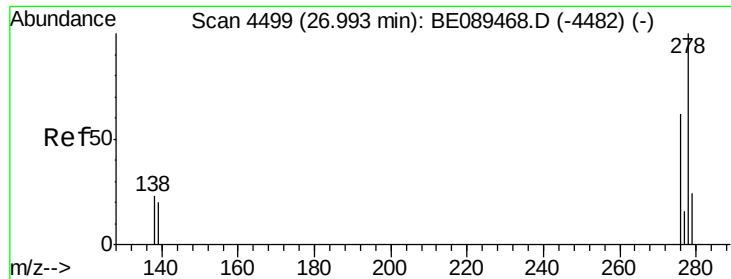


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Dibenzo(a,h)anthracene

Concen: 8.55 ng

RT: 27.02 min Scan# 4504

Delta R.T. 0.03 min

Lab File: BE089477.D

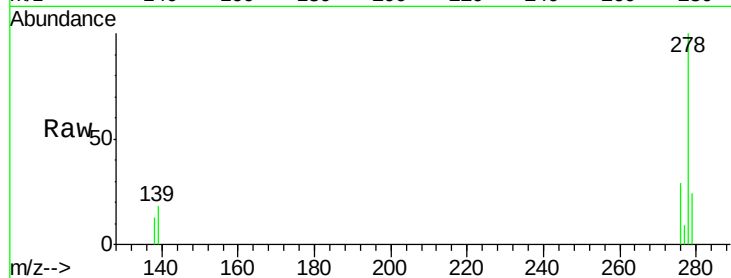
Acq: 3 Feb 2015 23:29

Instrument :

BNA_E

ClientSampleId :

MW-48MSD



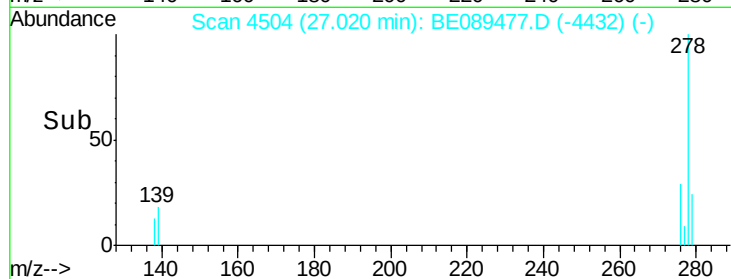
Tgt Ion: 278 Resp: 1006169

Ion Ratio Lower Upper

278 100

139 17.6 16.8 25.2

279 24.1 19.4 29.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

