

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040315\
 Data File : BM000821.D
 Acq On : 02 Apr 2015 23:56
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-01-S

Quant Time: Apr 03 18:31:59 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIM-BM040315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 03 18:16:53 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	28675	5.00	ng	0.00
11) Naphthalene-d8	10.39	136	132446	5.00	ng	0.00
19) Acenaphthene-d10	14.28	164	65881	5.00	ng	0.00
26) Phenanthrene-d10	17.00	188	139061	5.00	ng	0.00
30) Chrysene-d12	21.21	240	126600	5.00	ng	0.00
34) Perylene-d12	23.40	264	116159	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	99226	12.56	ng	0.00
5) Phenol-d6	6.77	99	163589	10.80	ng	0.00
12) Nitrobenzene-d5	8.77	82	46525	7.53	ng	0.00
20) 2,4,6-Tribromophenol	15.77	330	27486	9.84	ng	0.00
23) 2-Fluorobiphenyl	12.87	172	194054	9.56	ng	0.00
32) Terphenyl-d14	19.65	244	159325	10.46	ng	0.00

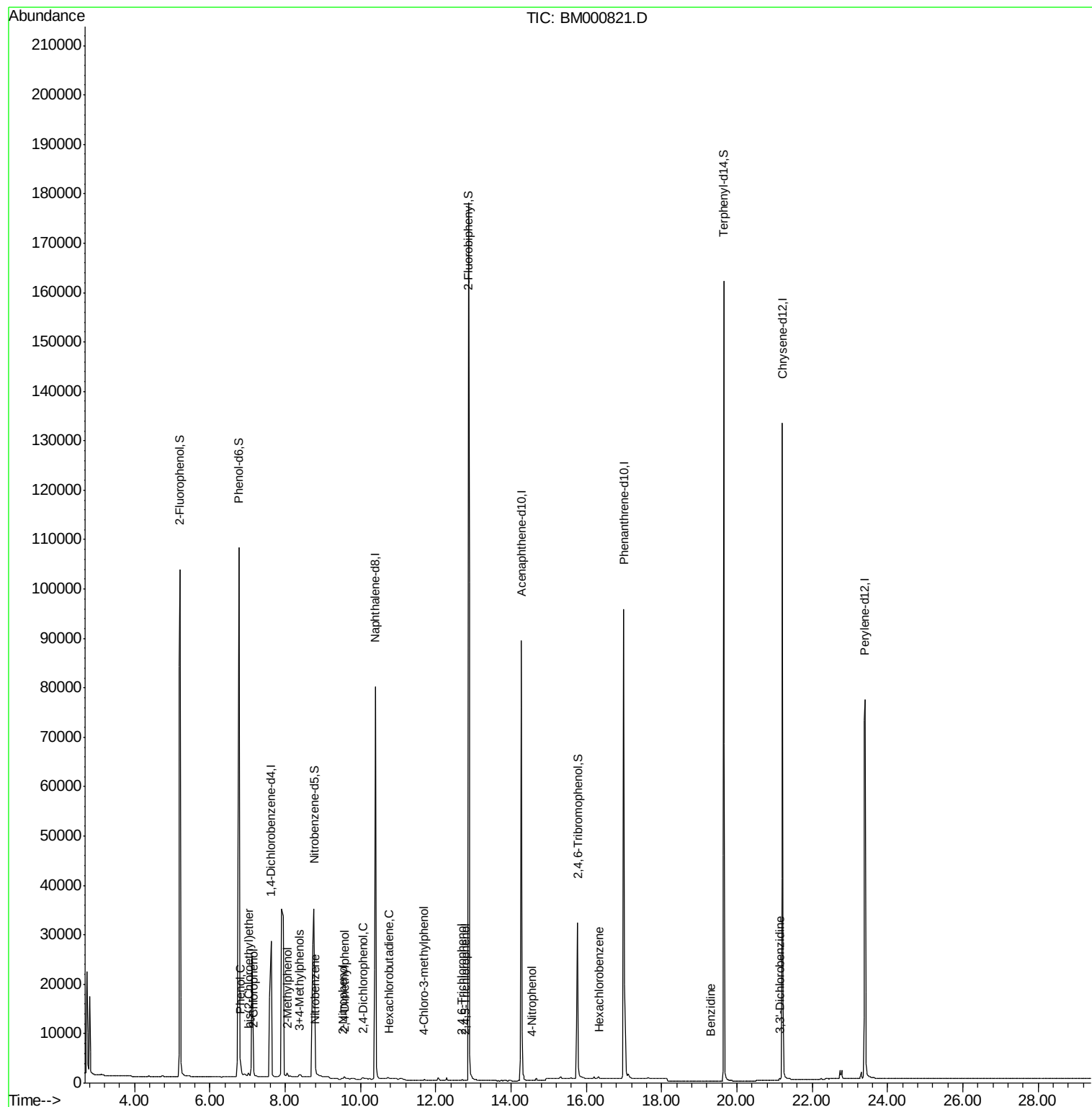
Target Compounds						Qvalue
6) 2-Chlorophenol	7.17	128	637	0.26	ng	74
7) Phenol	6.81	94	909	0.08	ng	# 60
8) bis(2-Chloroethyl)ether	7.02	93	560m	0.26	ng	
9) 2-Methylphenol	8.06	107	547	0.22	ng	# 75
10) 3+4-Methylphenols	8.38	107	566	0.17	ng	# 71
13) Nitrobenzene	8.80	77	701	0.10	ng	# 86
14) 2-Nitrophenol	9.52	139	196	0.19	ng	# 1
15) 2,4-Dimethylphenol	9.58	122	402	0.05	ng	# 71
16) 2,4-Dichlorophenol	10.07	162	368	0.26	ng	# 80
17) Hexachlorobutadiene	10.75	225	343	0.07	ng	# 85
18) 4-Chloro-3-methylphenol	11.69	107	408	0.06	ng	# 86
21) 2,4,6-Trichlorophenol	12.70	196	188	0.16	ng	# 59
22) 2,4,5-Trichlorophenol	12.79	196	245	0.10	ng	# 66
25) 4-Nitrophenol	14.54	139	46	0.25	ng	# 86
28) Hexachlorobenzene	16.33	284	588	0.14	ng	# 67
31) Benzidine	19.30	184	394	0.14	ng	# 96
33) 3,3'-Dichlorobenzidine	21.14	252	585	0.25	ng	# 72

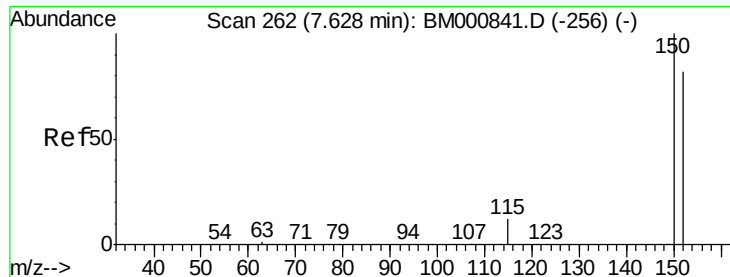
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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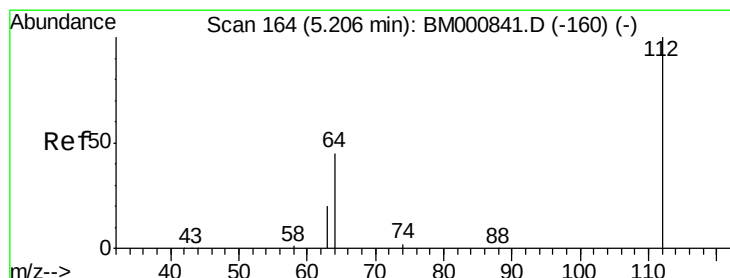
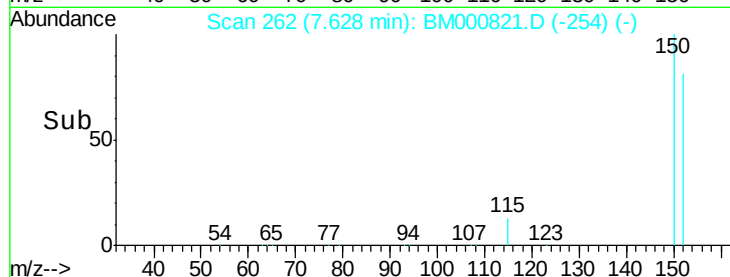
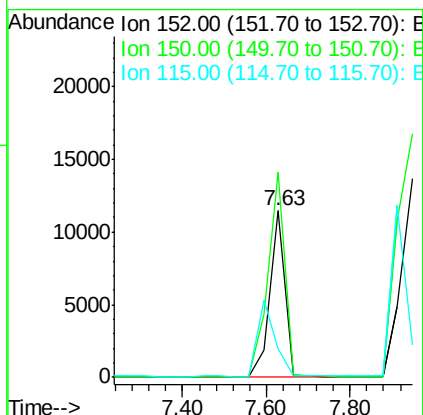
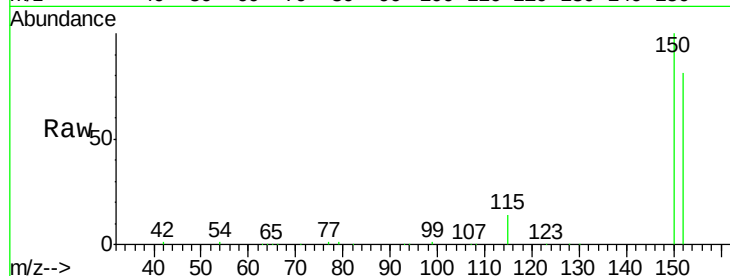


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.63 min Scan# 262
Delta R.T. -0.00 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

Instrument :
BNA_M
ClientSampleId :
MDL-01-S

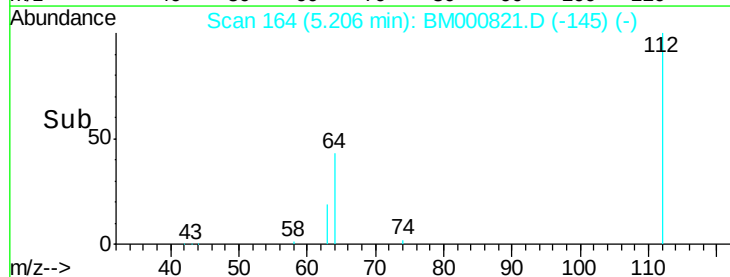
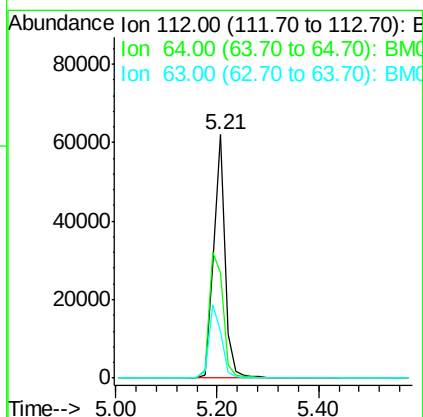
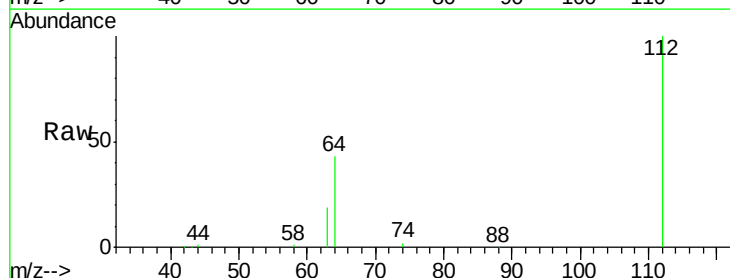
Tot Ion:152 Resp: 28675
Ion Ratio Lower Upper
152 100
150 123.4 99.8 149.6
115 17.0 13.5 20.3

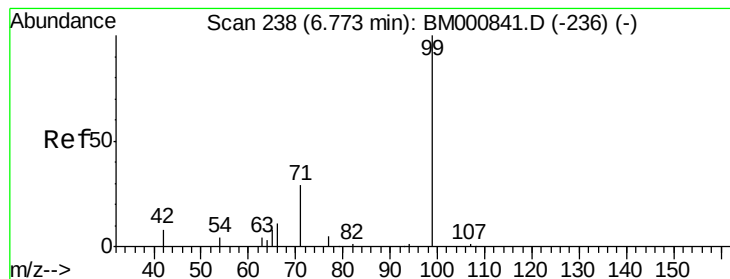


#4

2-Fluorophenol
Concen: 12.56 ng
RT: 5.21 min Scan# 164
Delta R.T. -0.00 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

Tgt Ion:112 Resp: 99226
Ion Ratio Lower Upper
112 100
64 43.4 40.3 60.5
63 18.9 19.0 28.4#





#5

Phenol-d6

Concen: 10.80 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

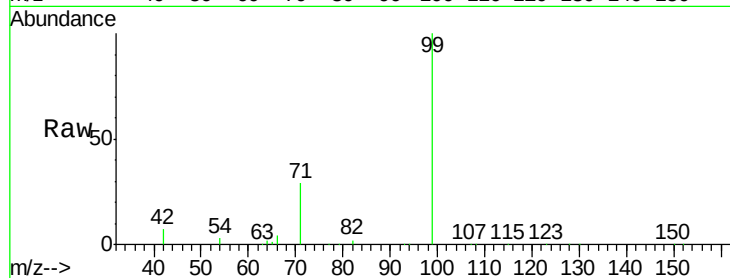
Tot Ion: 99 Resp: 163589

Ion Ratio Lower Upper

99 100

42 6.6 10.2 15.4#

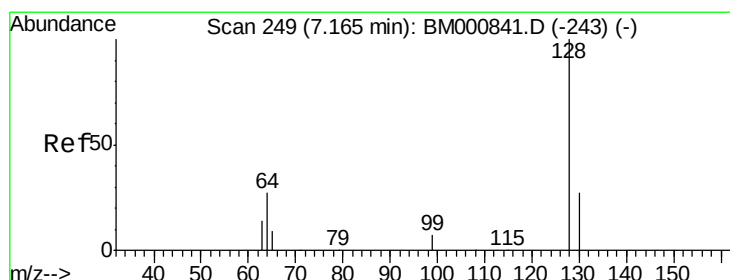
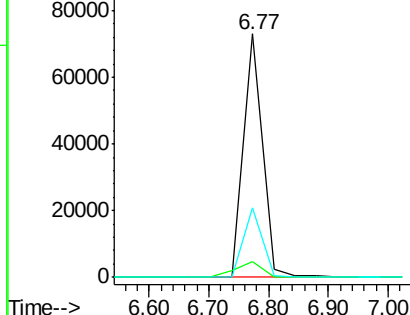
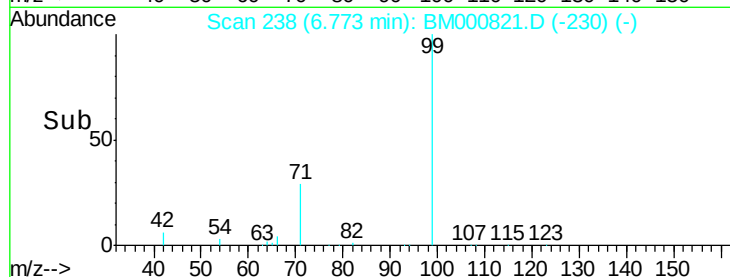
71 28.8 28.6 43.0



Abundance Ion 99.00 (98.70 to 99.70): BM000821.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000821.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000821.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.26 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

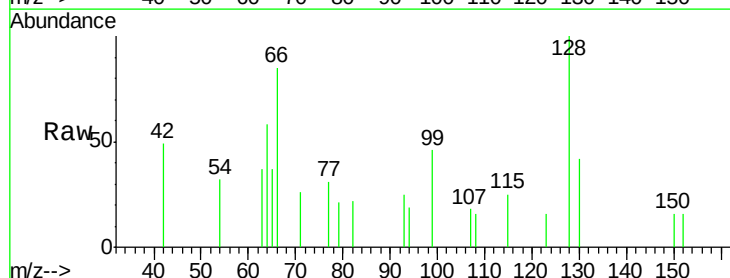
Tgt Ion: 128 Resp: 637

Ion Ratio Lower Upper

128 100

130 42.3 7.6 47.6

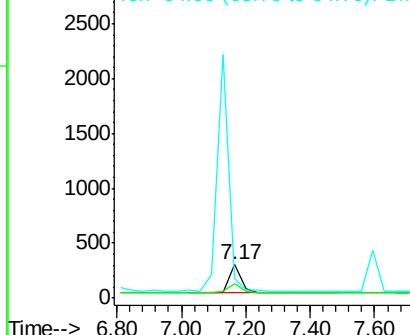
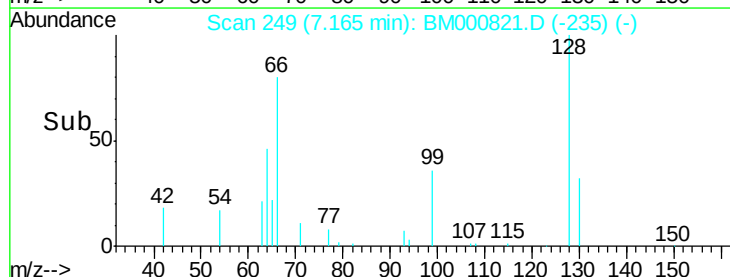
64 58.4 23.1 63.1

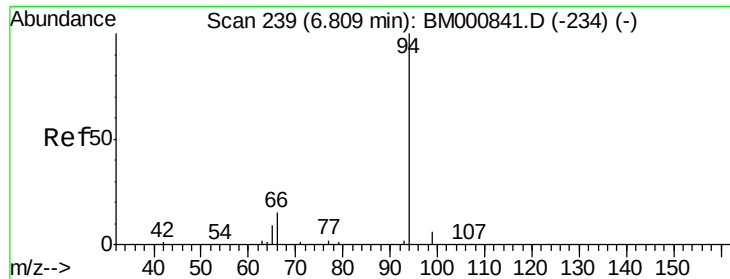


Abundance Ion 128.00 (127.70 to 128.70): BM000821.D (-243) (-)

Ion 130.00 (129.70 to 130.70): BM000821.D (-243) (-)

Ion 64.00 (63.70 to 64.70): BM000821.D (-243) (-)





#7

Phenol

Concen: 0.08 ng

RT: 6.81 min Scan# 239

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

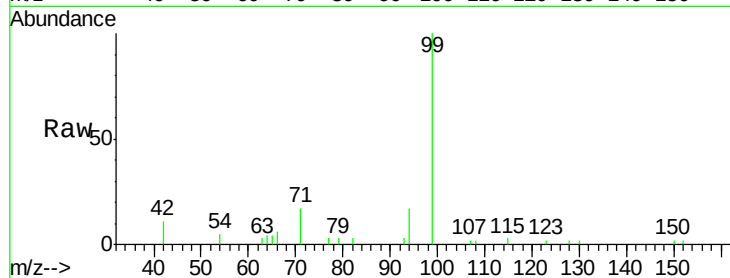
Tot Ion: 94 Resp: 909

Ion Ratio Lower Upper

94 100

65 23.8 0.0 32.0

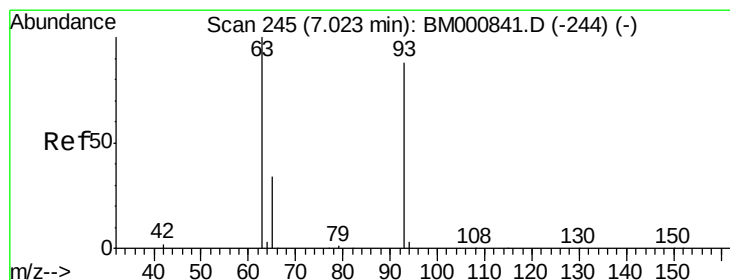
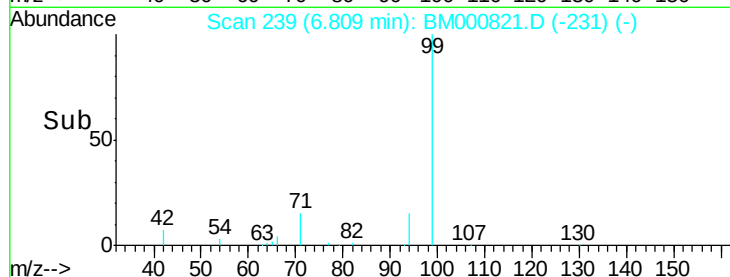
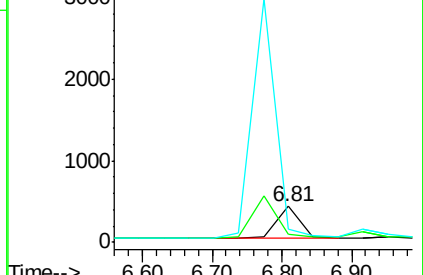
66 37.8 0.0 37.6#



Abundance Ion 94.00 (93.70 to 94.70): BM000841.D (-234) (-)

Ion 65.00 (64.70 to 65.70): BM000841.D (-234) (-)

Ion 66.00 (65.70 to 66.70): BM000841.D (-234) (-)



#8

bis(2-Chloroethyl)ether

Concen: 0.26 ng m

RT: 7.02 min Scan# 245

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

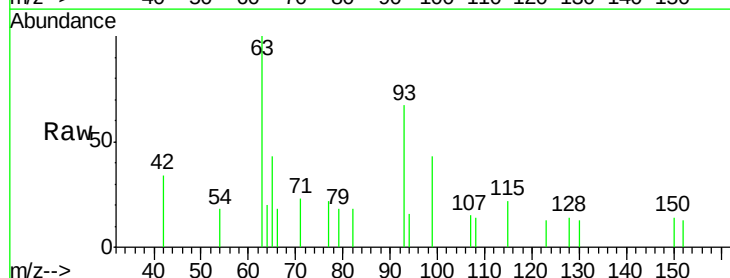
Tgt Ion: 93 Resp: 560

Ion Ratio Lower Upper

93 100

63 149.2 118.9 158.9

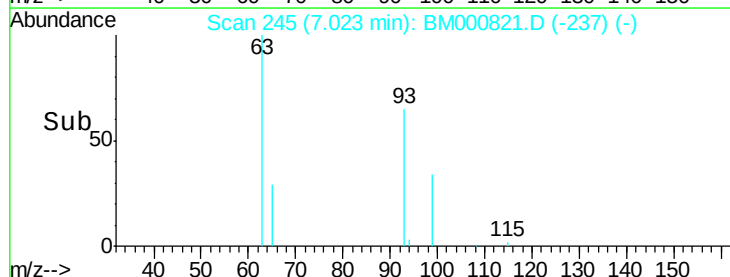
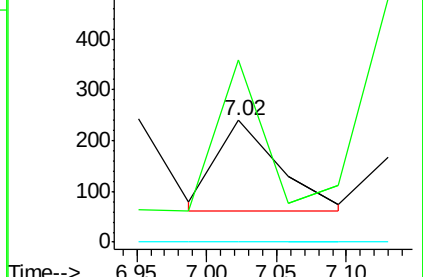
95 0.0 0.0 20.0

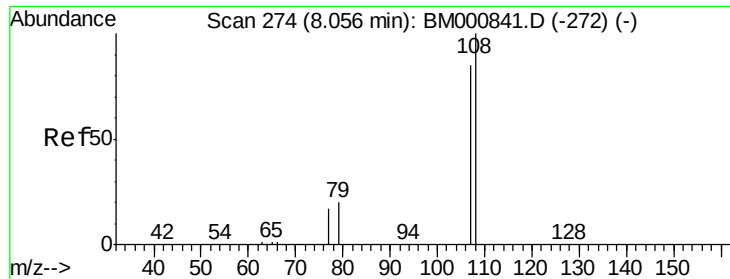


Abundance Ion 93.00 (92.70 to 93.70): BM000841.D (-244) (-)

Ion 63.00 (62.70 to 63.70): BM000841.D (-244) (-)

Ion 95.00 (94.70 to 95.70): BM000841.D (-244) (-)





#9

2-Methylphenol

Concen: 0.22 ng

RT: 8.06 min Scan# 274

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

Tot Ion:107 Resp: 547

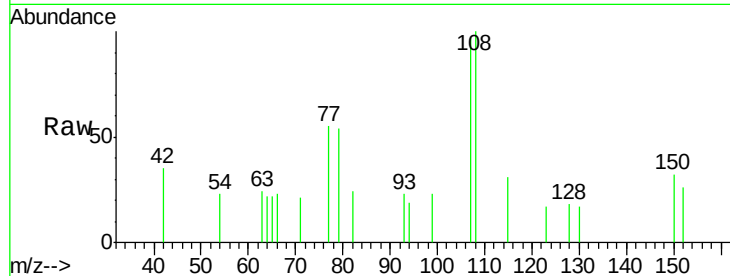
Ion Ratio Lower Upper

107 100

108 103.3 92.0 138.0

77 57.0 20.6 31.0#

79 55.9 22.9 34.3#

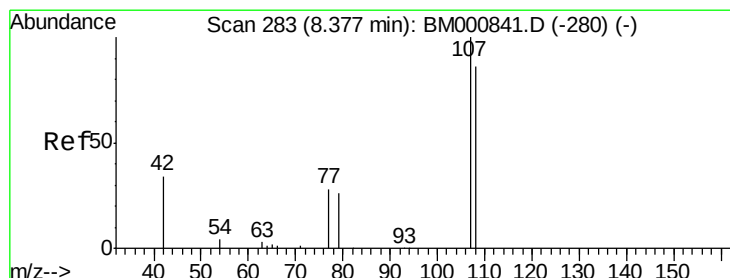
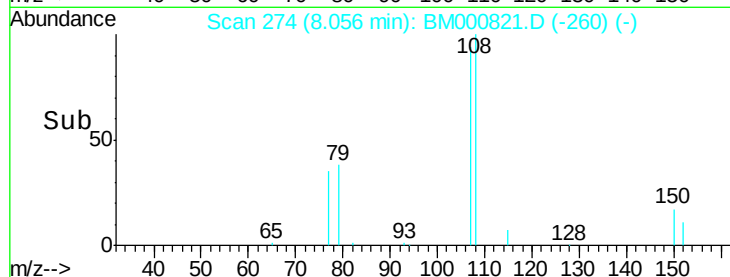
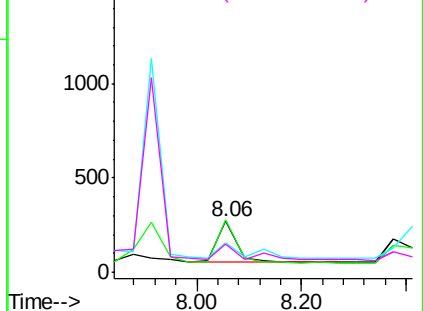


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BMC

Ion 79.00 (78.70 to 79.70): BMC



#10

3+4-Methylphenols

Concen: 0.17 ng

RT: 8.38 min Scan# 283

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Tgt Ion:107 Resp: 566

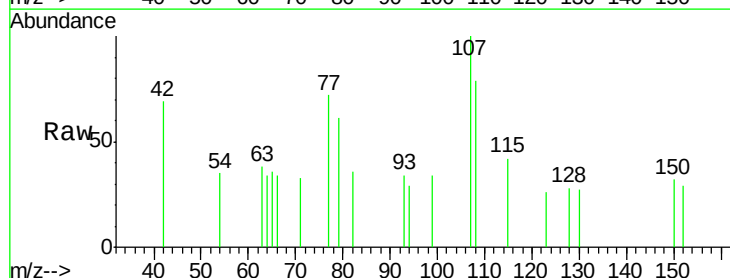
Ion Ratio Lower Upper

107 100

108 79.4 62.6 102.6

77 71.7 12.8 52.8#

79 61.1 10.3 50.3#

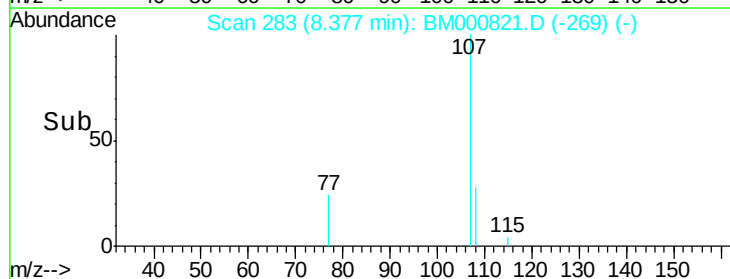
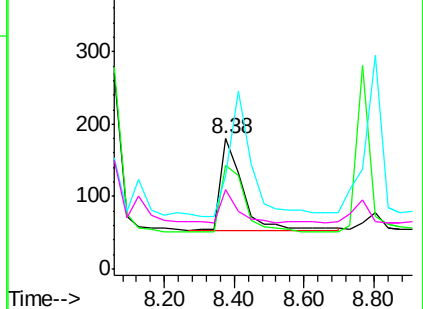


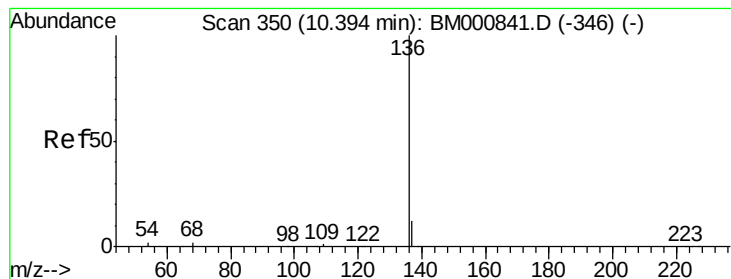
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BMC

Ion 79.00 (78.70 to 79.70): BMC





#11

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 350

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampled :

MDL-01-S

Tot Ion:136 Resp: 132446

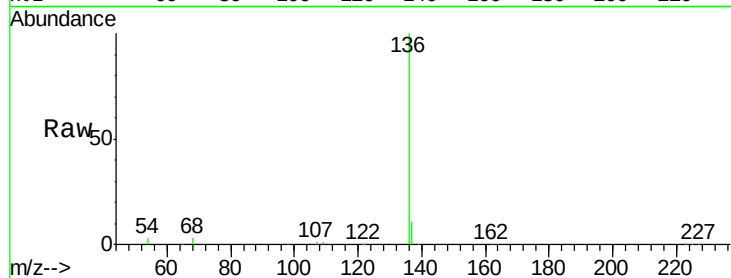
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 2.9 2.2 3.4

68 2.8 2.2 3.2

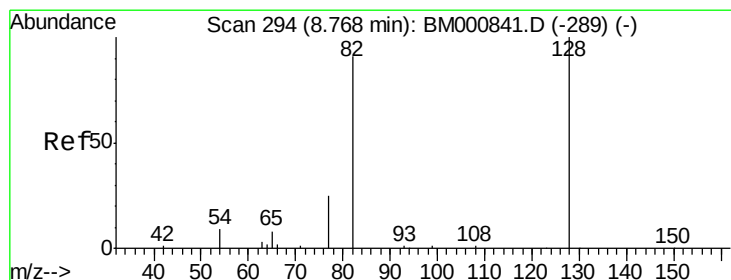
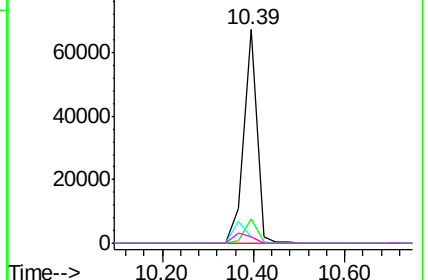
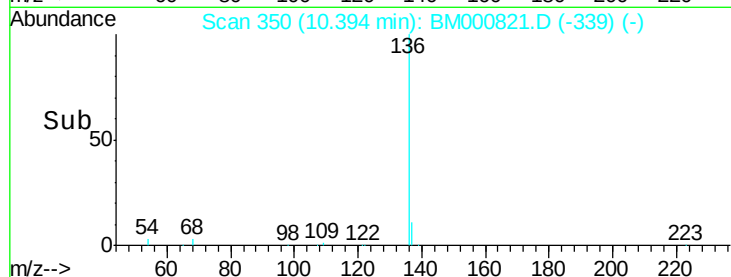


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#12

Nitrobenzene-d5

Concen: 7.53 ng

RT: 8.77 min Scan# 294

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

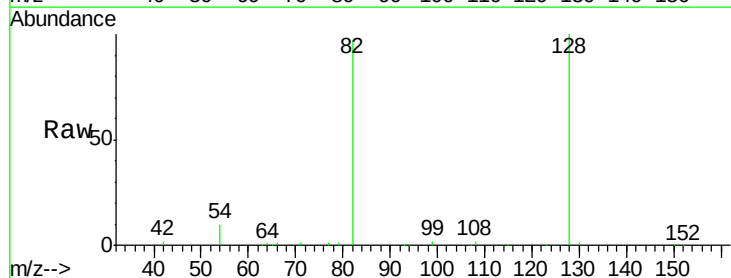
Tgt Ion: 82 Resp: 46525

Ion Ratio Lower Upper

82 100

128 102.7 72.5 108.7

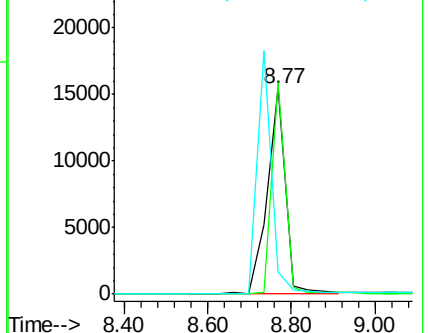
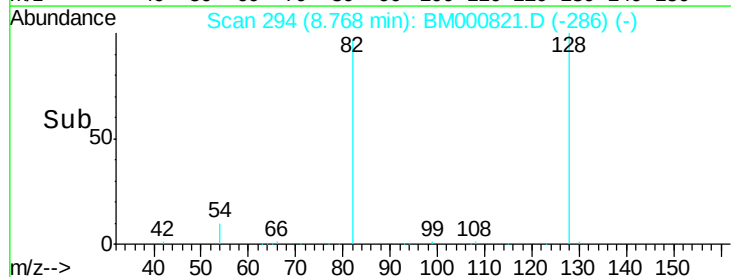
54 10.6 11.8 17.8#

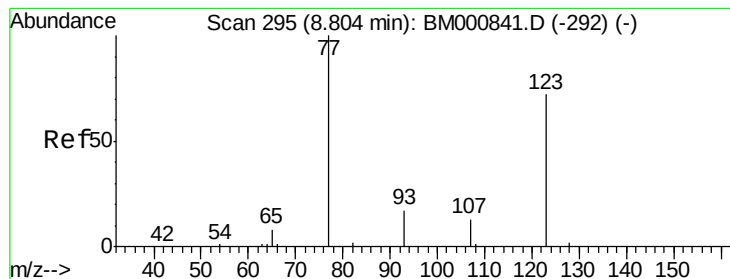


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#13

Nitrobenzene

Concen: 0.10 ng

RT: 8.80 min Scan# 295

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

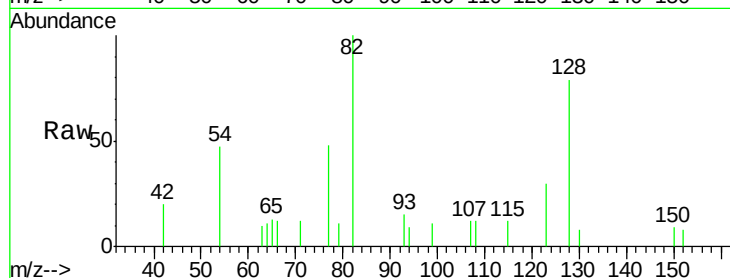
Tot Ion: 77 Resp: 701

Ion Ratio Lower Upper

77 100

123 63.4 45.8 68.6

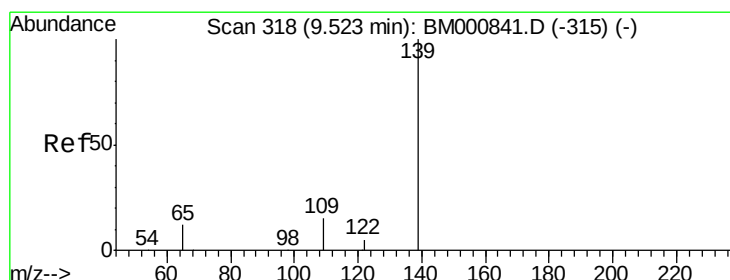
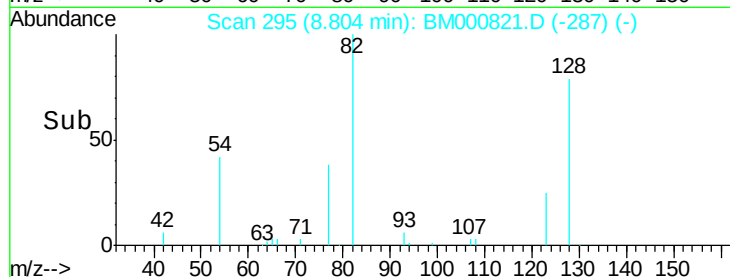
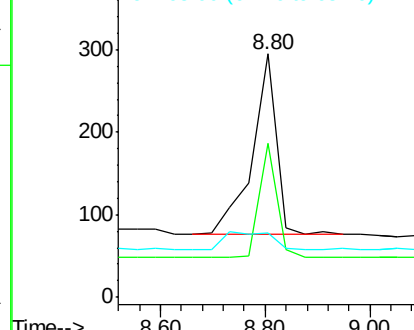
65 26.4 8.2 12.4#



Abundance Ion 77.00 (76.70 to 77.70): BM000821.D (-287) (-)

Ion 123.00 (122.70 to 123.70): BM000821.D (-287) (-)

Ion 65.00 (64.70 to 65.70): BM000821.D (-287) (-)



#14

2-Nitrophenol

Concen: 0.19 ng

RT: 9.52 min Scan# 318

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

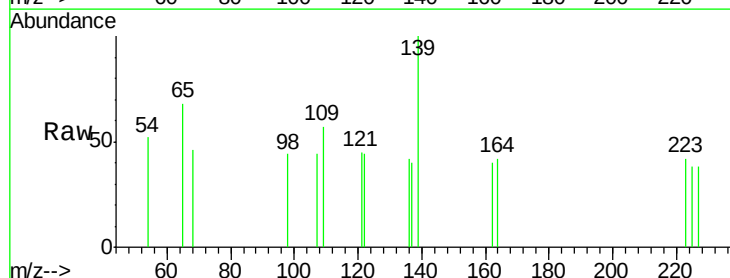
Tgt Ion: 139 Resp: 196

Ion Ratio Lower Upper

139 100

109 57.3 15.0 22.6#

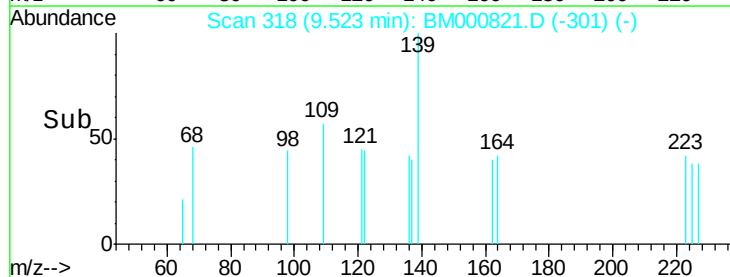
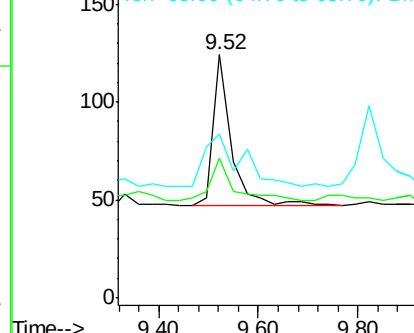
65 67.7 14.2 21.4#

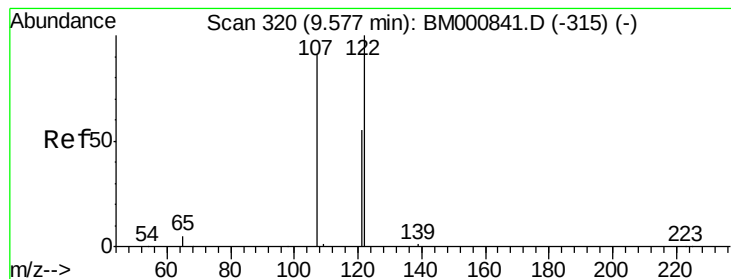


Abundance Ion 139.00 (138.70 to 139.70): BM000821.D (-301) (-)

Ion 109.00 (108.70 to 109.70): BM000821.D (-301) (-)

Ion 65.00 (64.70 to 65.70): BM000821.D (-301) (-)





#15

2,4-Dimethylphenol

Concen: 0.05 ng

RT: 9.58 min Scan# 320

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

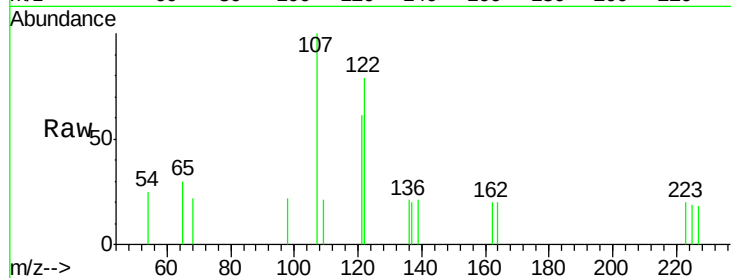
Tot Ion:122 Resp: 402

Ion Ratio Lower Upper

122 100

107 126.8 78.2 117.4#

121 76.8 45.4 68.0#



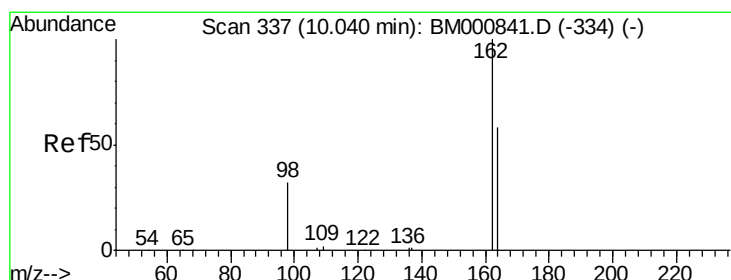
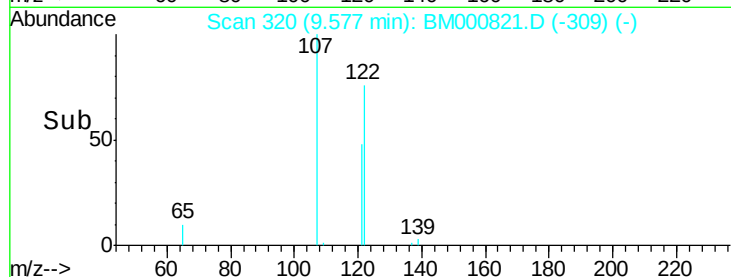
Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

9.58

Time-->



#16

2,4-Dichlorophenol

Concen: 0.26 ng

RT: 10.07 min Scan# 338

Delta R.T. 0.03 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

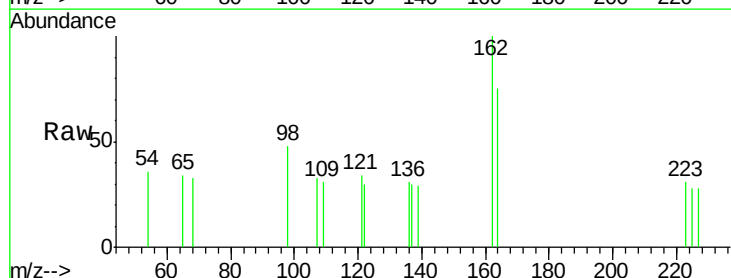
Tgt Ion:162 Resp: 368

Ion Ratio Lower Upper

162 100

164 75.3 37.1 77.1

98 48.2 19.5 59.5



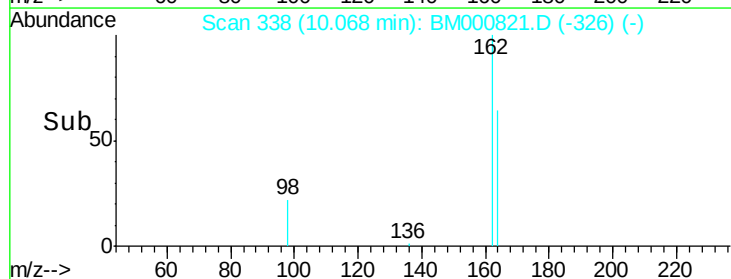
Abundance Ion 162.00 (161.70 to 162.70): E

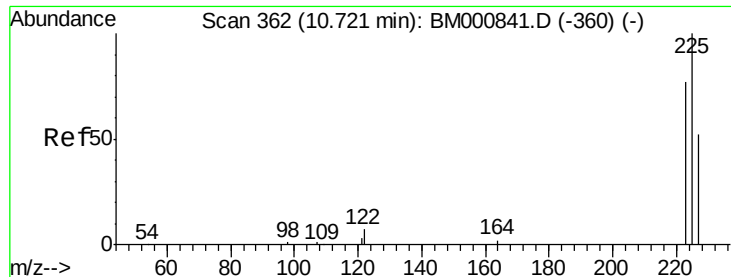
Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM

10.07

Time-->

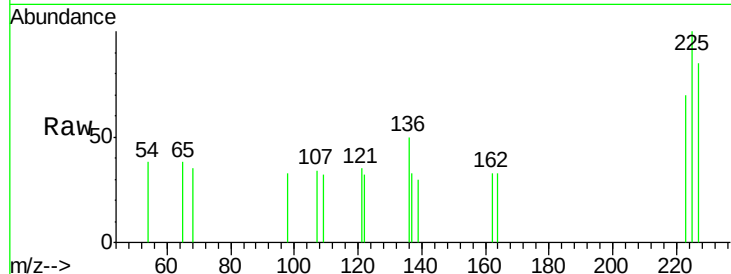




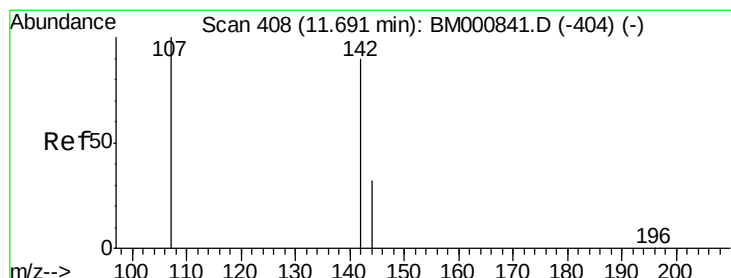
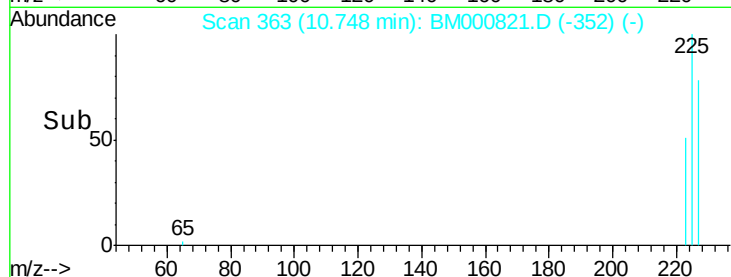
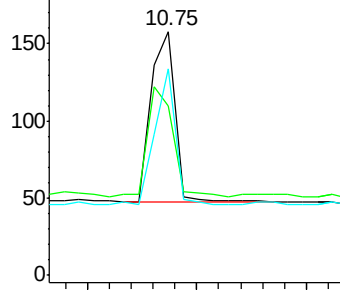
#17
Hexachlorobutadiene
Concen: 0.07 ng
RT: 10.75 min Scan# 363
Delta R.T. -0.00 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

Instrument :
BNA_M
ClientSampleId :
MDL-01-S

Tot Ion:225 Resp: 343
Ion Ratio Lower Upper
225 100
223 69.6 40.8 61.2#
227 84.8 62.8 94.2

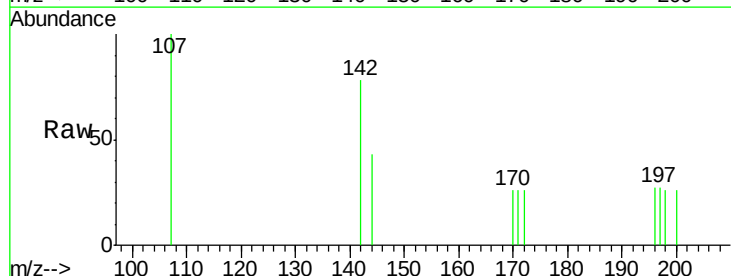


Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

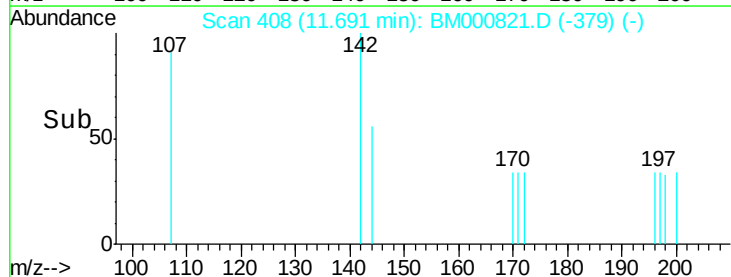
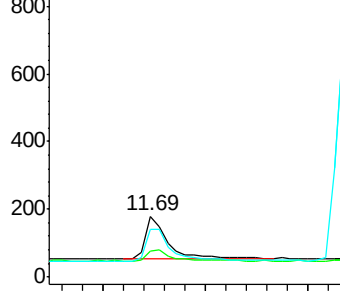


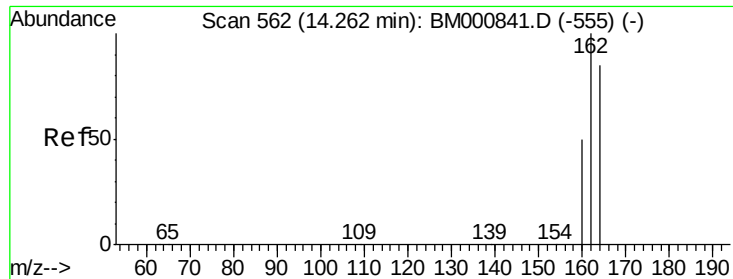
#18
4-Chloro-3-methylphenol
Concen: 0.06 ng
RT: 11.69 min Scan# 408
Delta R.T. -0.00 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

Tgt Ion:107 Resp: 408
Ion Ratio Lower Upper
107 100
144 43.3 25.8 38.8#
142 77.8 71.3 106.9



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 144.00 (143.70 to 144.70): E
Ion 142.00 (141.70 to 142.70): E

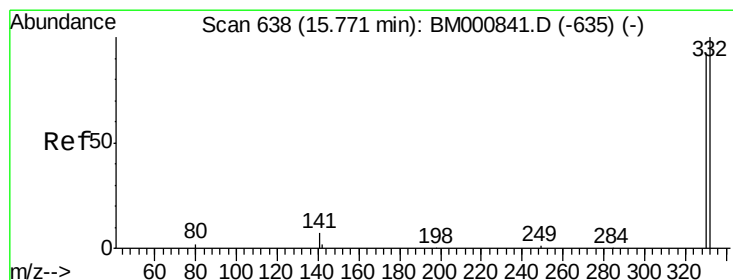
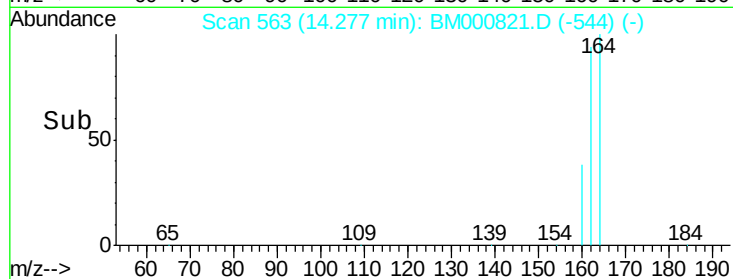
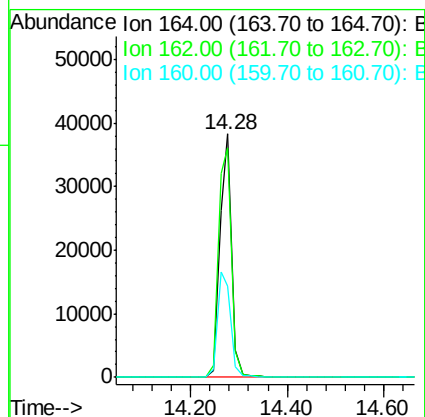
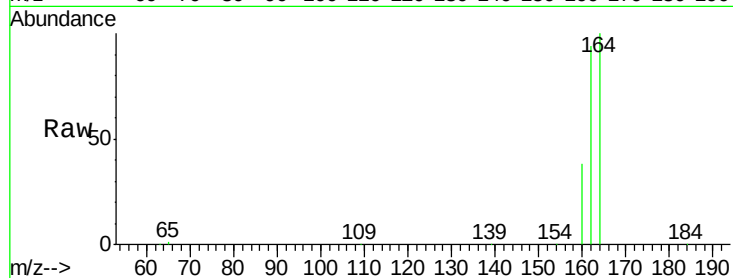




#19
 Acenaphthene-d10
 Concen: 5.00 ng
 RT: 14.28 min Scan# 563
 Delta R.T. -0.00 min
 Lab File: BM000821.D
 Acq: 02 Apr 2015 23:56

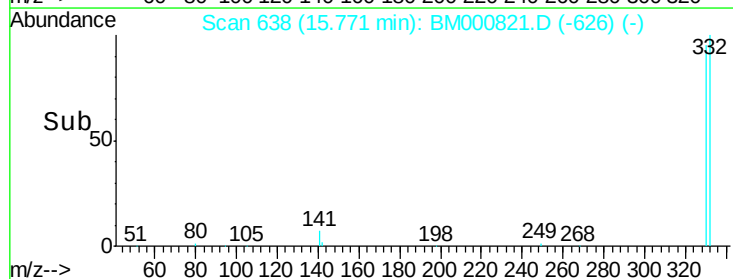
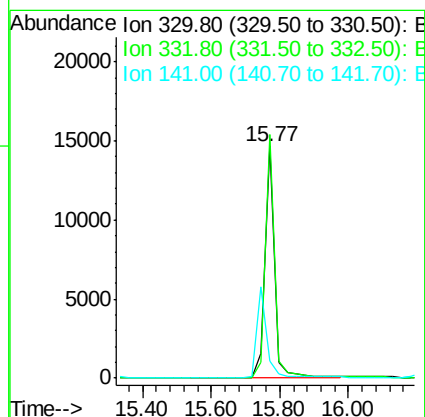
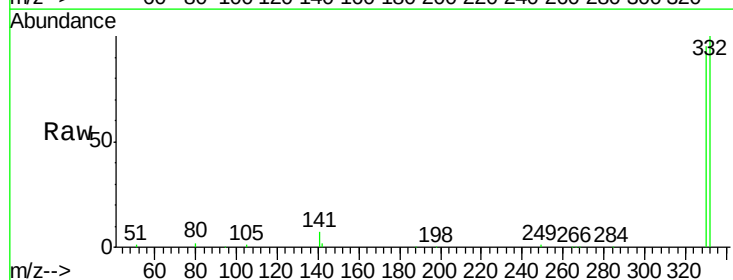
Instrument :
 BNA_M
 ClientSampleId :
 MDL-01-S

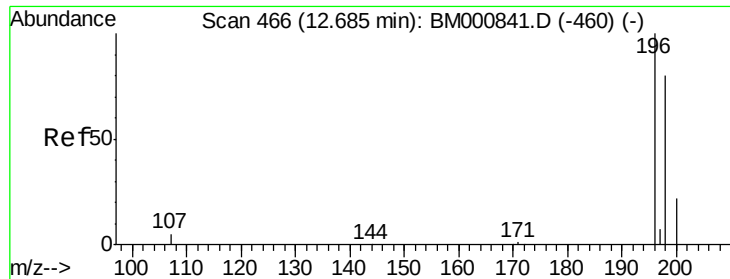
Tot Ion:164 Resp: 65881
 Ion Ratio Lower Upper
 164 100
 162 94.2 74.2 111.2
 160 37.8 30.4 45.6



#20
 2,4,6-Tribromophenol
 Concen: 9.84 ng
 RT: 15.77 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: BM000821.D
 Acq: 02 Apr 2015 23:56

Tgt Ion:330 Resp: 27486
 Ion Ratio Lower Upper
 330 100
 332 101.8 78.7 118.1
 141 0.0 0.0 0.0





#21

2,4,6-Trichlorophenol

Concen: 0.16 ng

RT: 12.70 min Scan# 467

Delta R.T. 0.02 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

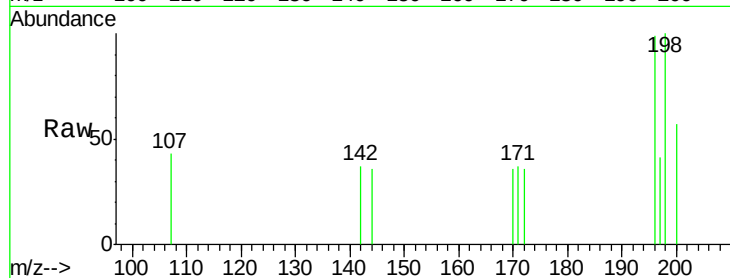
Tot Ion:196 Resp: 188

Ion Ratio Lower Upper

196 100

198 100.8 59.5 89.3#

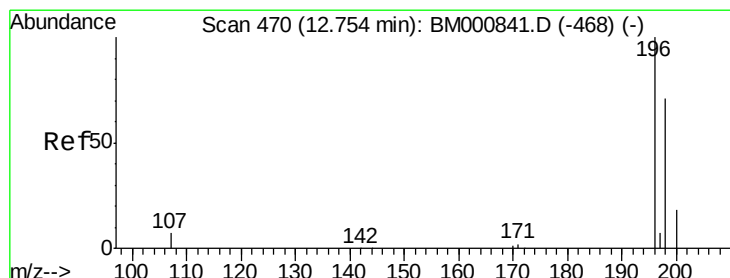
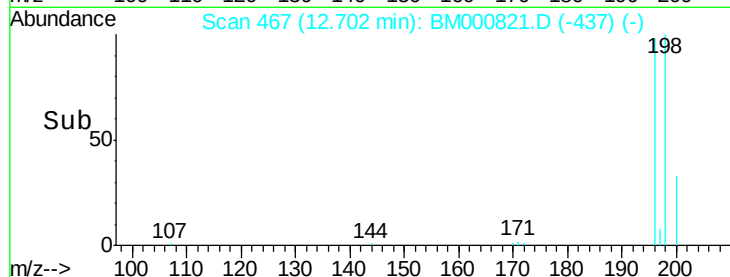
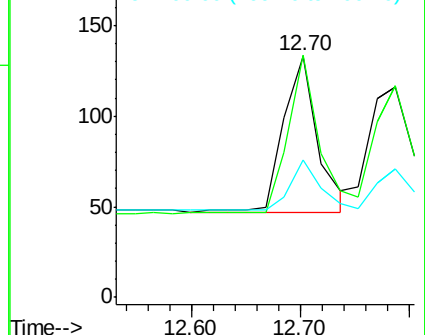
200 57.1 17.4 26.0#



Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#22

2,4,5-Trichlorophenol

Concen: 0.10 ng

RT: 12.79 min Scan# 472

Delta R.T. 0.04 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Tgt Ion:196 Resp: 245

Ion Ratio Lower Upper

196 100

198 100.9 57.9 86.9#

97 0.0 0.0 0.0

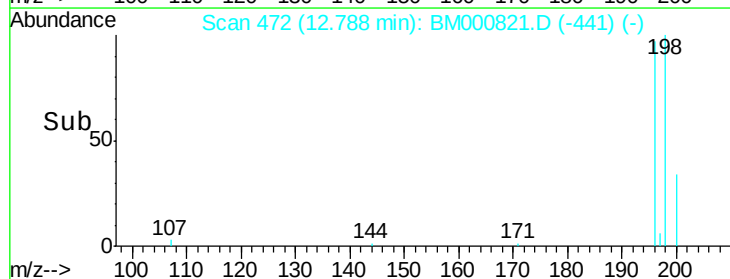
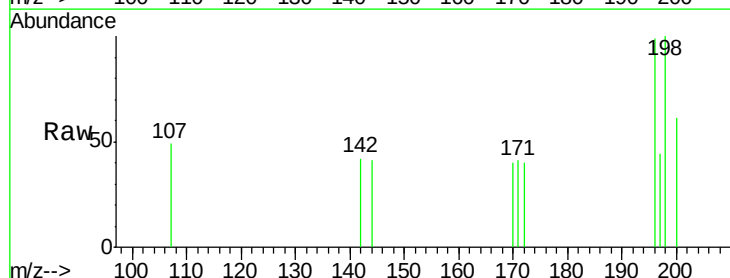
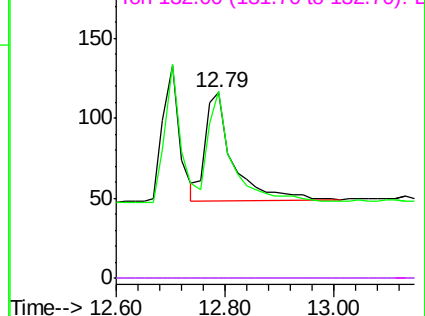
132 0.0 0.0 0.0

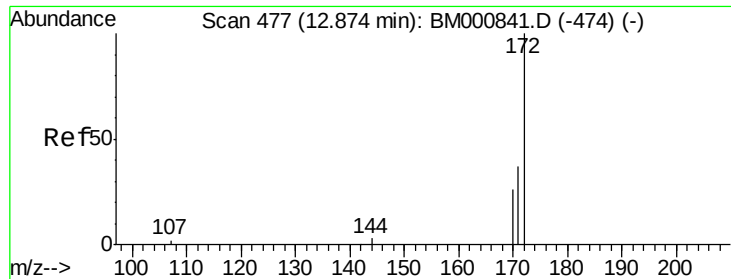
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM

Ion 132.00 (131.70 to 132.70): E

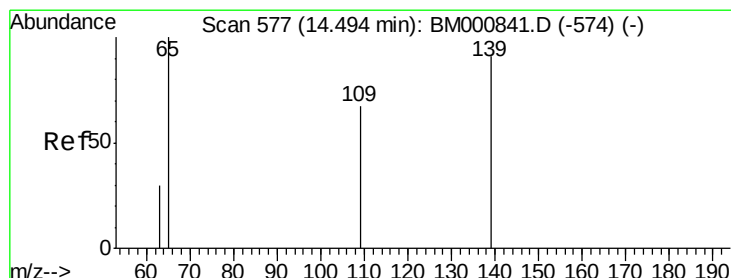
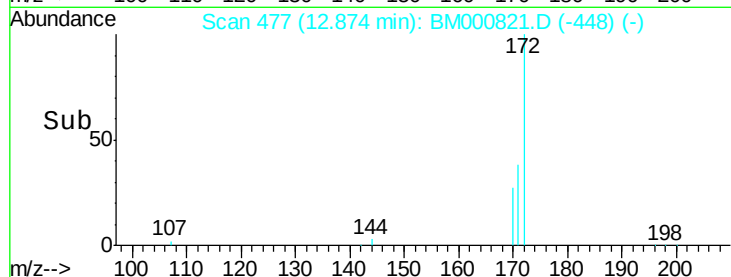
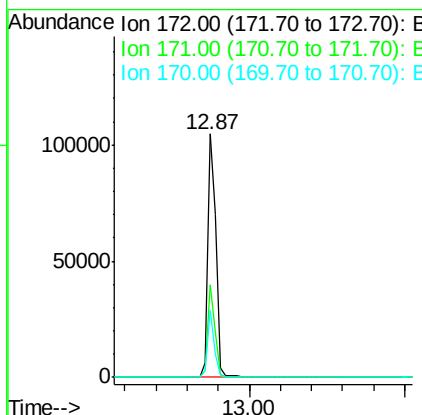
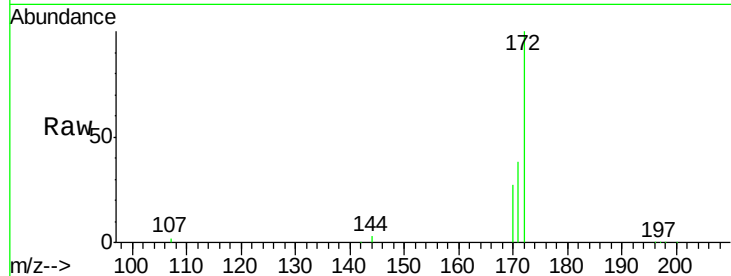




#23
2-Fluorobiphenyl
Concen: 9.56 ng
RT: 12.87 min Scan# 477
Delta R.T. -0.00 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

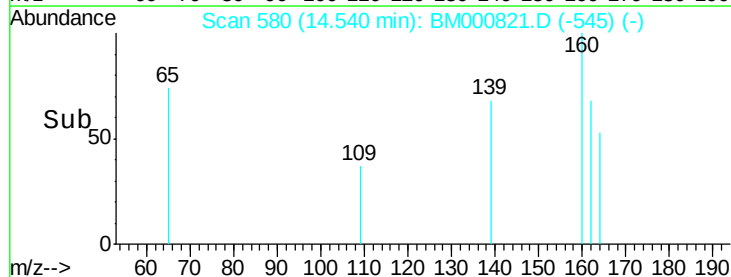
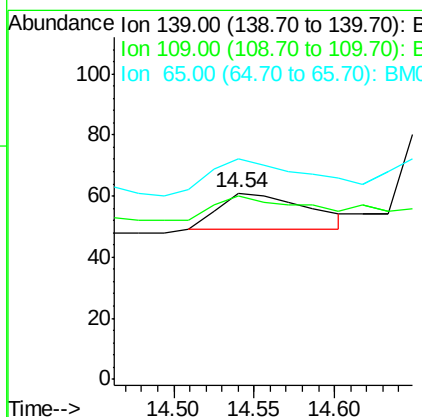
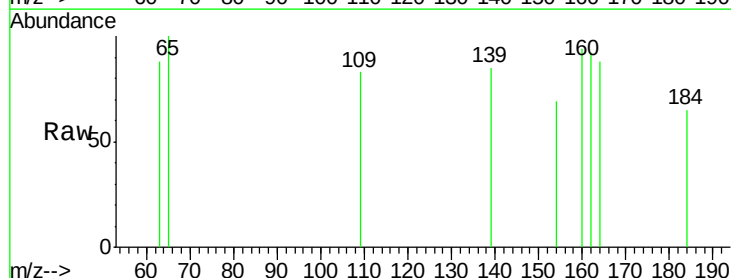
Instrument :
BNA_M
ClientSampleId :
MDL-01-S

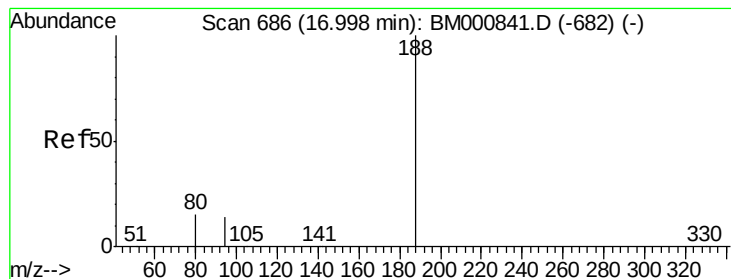
Tot Ion:172 Resp: 194054
Ion Ratio Lower Upper
172 100
171 37.9 30.6 46.0
170 27.3 22.2 33.2



#25
4-Nitrophenol
Concen: 0.25 ng
RT: 14.54 min Scan# 580
Delta R.T. 0.05 min
Lab File: BM000821.D
Acq: 02 Apr 2015 23:56

Tgt Ion:139 Resp: 46
Ion Ratio Lower Upper
139 100
109 98.4 58.2 98.2#
65 118.0 90.4 130.4





#26

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.00 min Scan# 686

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

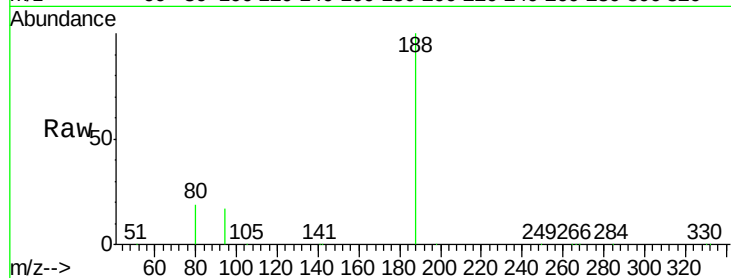
Tot Ion:188 Resp: 139061

Ion Ratio Lower Upper

188 100

94 16.8 13.0 19.6

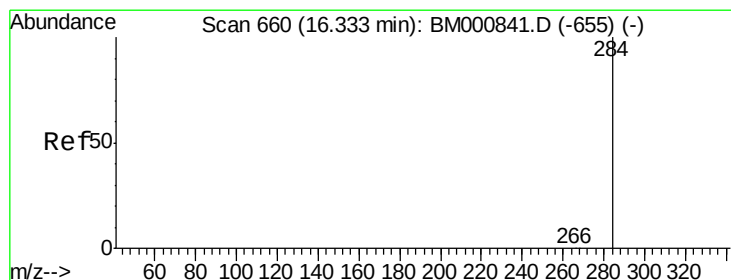
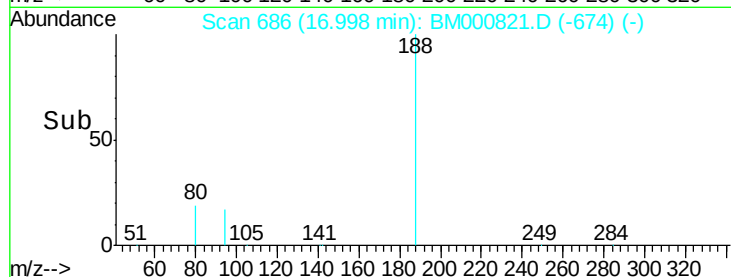
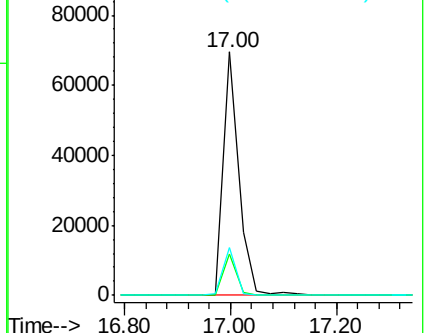
80 19.5 14.7 22.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#28

Hexachlorobenzene

Concen: 0.14 ng

RT: 16.33 min Scan# 660

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

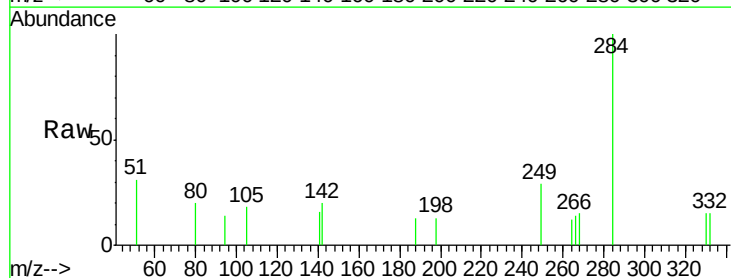
Tgt Ion:284 Resp: 588

Ion Ratio Lower Upper

284 100

142 20.1 6.5 9.7#

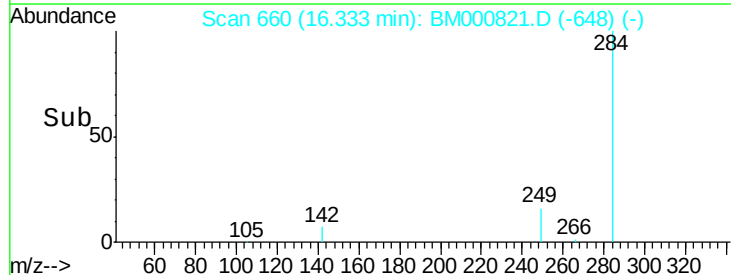
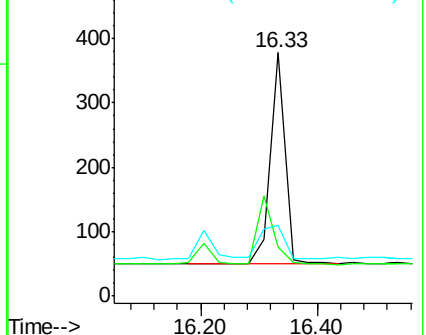
249 29.1 12.6 18.8#

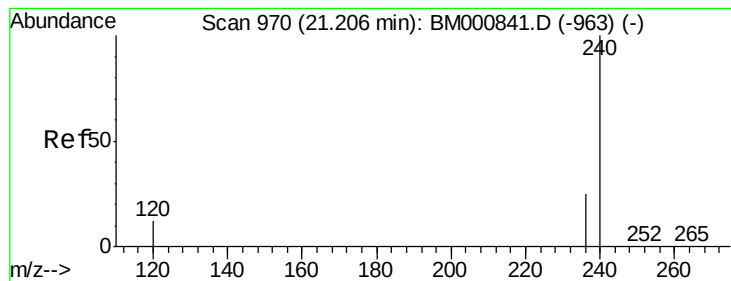


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#30

Chrysene-d12

Concen: 5.00 ng

RT: 21.21 min Scan# 970

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

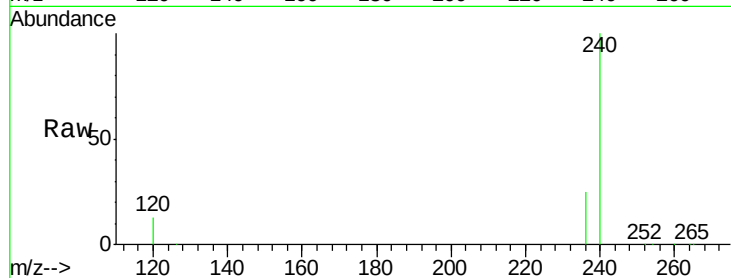
Tot Ion:240 Resp: 126600

Ion Ratio Lower Upper

240 100

120 12.5 11.3 16.9

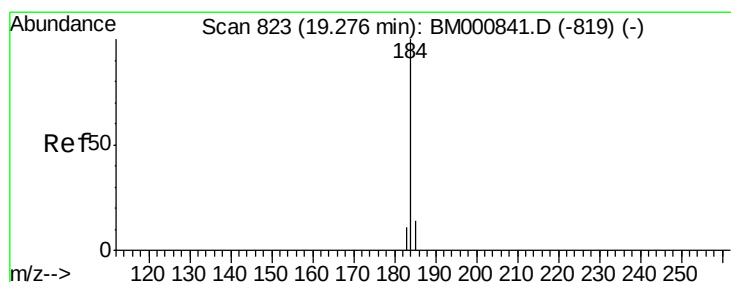
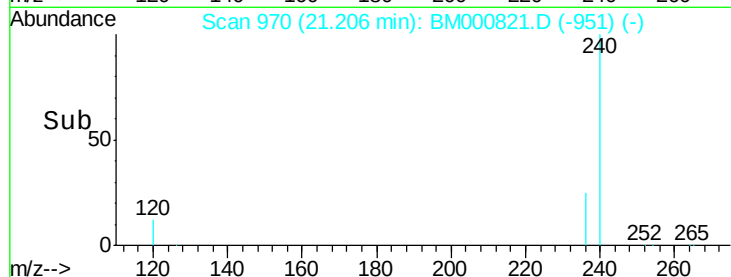
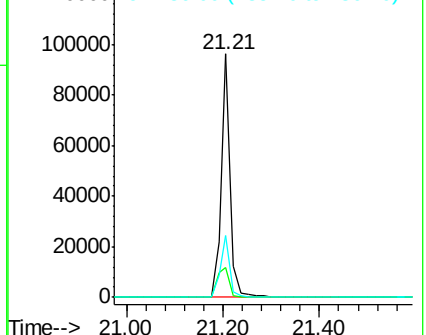
236 25.3 21.1 31.7



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



#31

Benzidine

Concen: 0.14 ng

RT: 19.30 min Scan# 825

Delta R.T. 0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

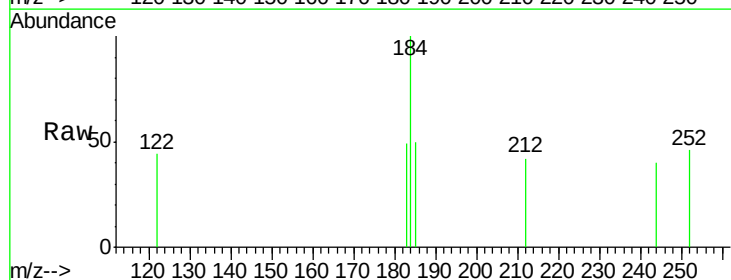
Tgt Ion:184 Resp: 394

Ion Ratio Lower Upper

184 100

185 50.4 39.1 58.7

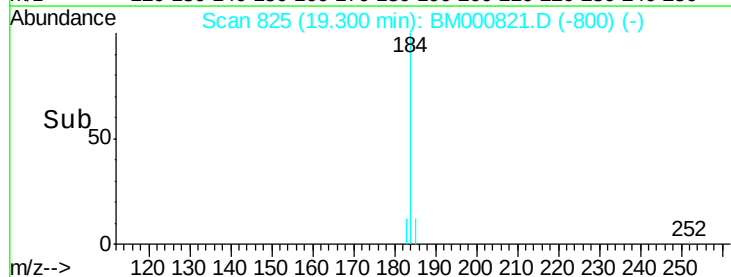
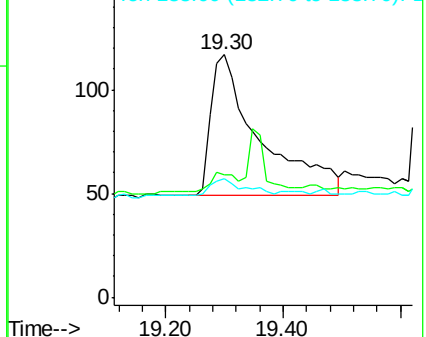
183 48.7 36.1 54.1

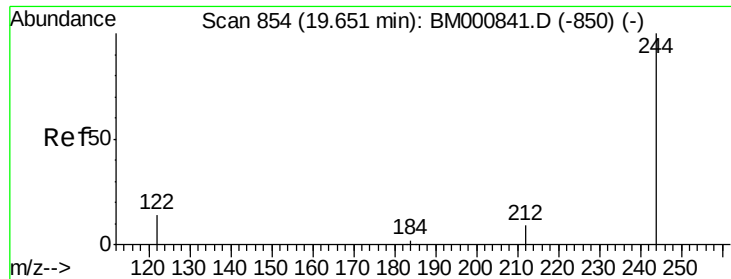


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#32

Terphenyl-d14

Concen: 10.46 ng

RT: 19.65 min Scan# 854

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

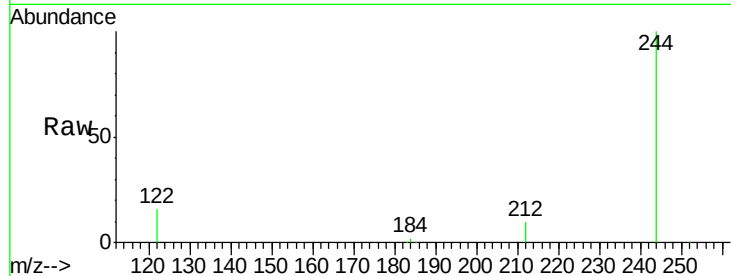
Tot Ion:244 Resp: 159325

Ion Ratio Lower Upper

244 100

212 9.7 8.0 12.0

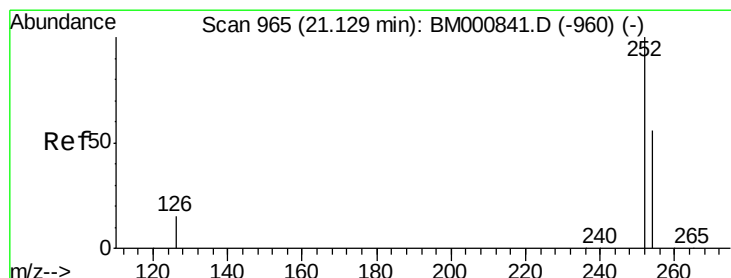
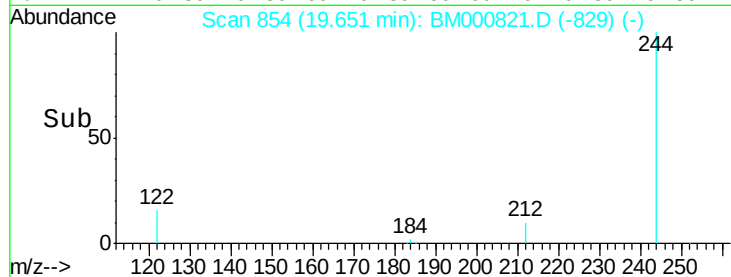
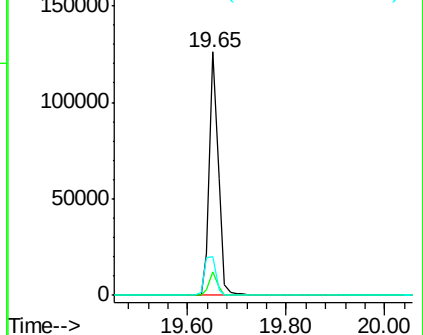
122 16.1 14.7 22.1



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



#33

3,3'-Dichlorobenzidine

Concen: 0.25 ng

RT: 21.14 min Scan# 966

Delta R.T. 0.02 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

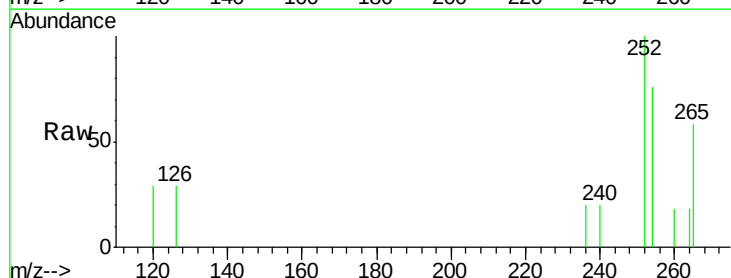
Tgt Ion:252 Resp: 585

Ion Ratio Lower Upper

252 100

254 75.7 44.5 66.7#

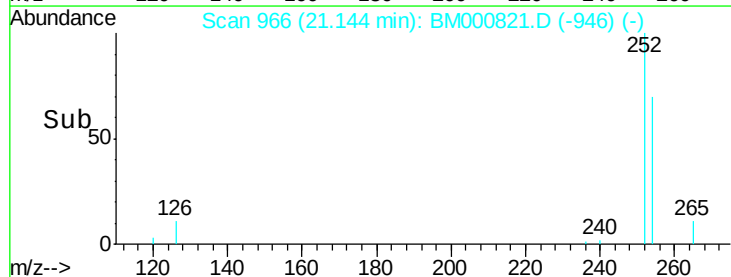
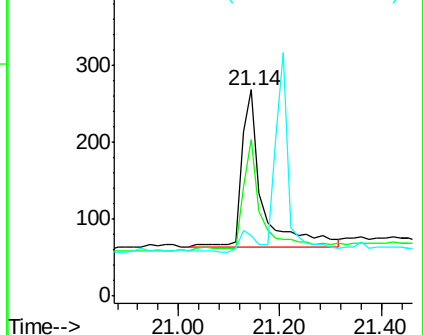
126 29.5 13.6 20.4#

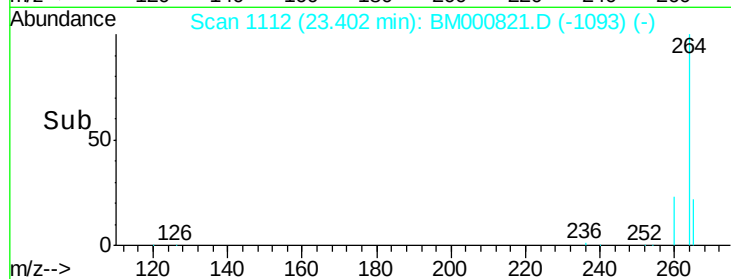
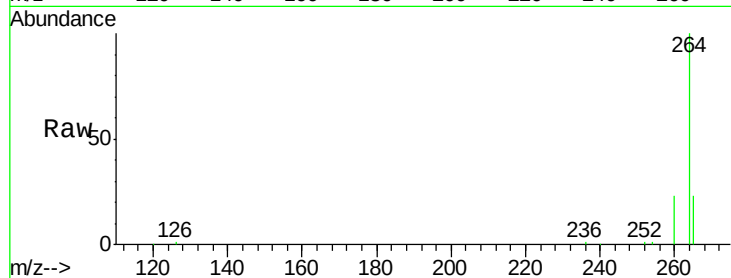
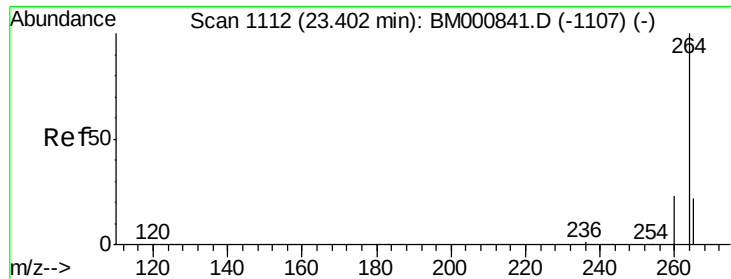


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#34

Pervlene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BM000821.D

Acq: 02 Apr 2015 23:56

Instrument :

BNA_M

ClientSampleId :

MDL-01-S

Tot Ion:264 Resp: 116159

Ion Ratio Lower Upper

264 100

260 23.1 19.1 28.7

265 22.9 17.5 26.3

