

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040315\
 Data File : BM000822.D
 Acq On : 03 Apr 2015 00:32
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-02-S

Quant Time: Apr 03 18:32:59 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	28958	5.00	ng	0.00
11) Naphthalene-d8	10.39	136	138797	5.00	ng	0.00
19) Acenaphthene-d10	14.28	164	68177	5.00	ng	0.00
26) Phenanthrene-d10	17.01	188	180931	5.00	ng	0.00
30) Chrysene-d12	21.20	240	129706	5.00	ng	0.00
34) Perylene-d12	23.40	264	120815	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.21	112	97237	12.19	ng	0.00
5) Phenol-d6	6.77	99	162323	10.62	ng	0.00
12) Nitrobenzene-d5	8.77	82	46256	7.14	ng	0.00
20) 2,4,6-Tribromophenol	15.75	330	22744	7.91	ng	-0.02
23) 2-Fluorobiphenyl	12.87	172	189774	9.03	ng	0.00
32) Terphenyl-d14	19.66	244	160134	10.26	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) 2-Chlorophenol	7.17	128	693	0.26	ng	80
7) Phenol	6.81	94	932	0.08	ng	61
8) bis(2-Chloroethyl)ether	7.02	93	605m	0.26	ng	
9) 2-Methylphenol	8.06	107	564	0.22	ng	# 79
10) 3+4-Methylphenols	8.38	107	573	0.17	ng	# 74
13) Nitrobenzene	8.80	77	735	0.10	ng	# 84
14) 2-Nitrophenol	9.52	139	217	0.19	ng	# 15
15) 2,4-Dimethylphenol	9.58	122	443	0.06	ng	# 79
16) 2,4-Dichlorophenol	10.07	162	418	0.27	ng	# 81
17) Hexachlorobutadiene	10.75	225	374	0.07	ng	# 87
18) 4-Chloro-3-methylphenol	11.69	107	440	0.06	ng	# 91
21) 2,4,6-Trichlorophenol	12.70	196	212	0.17	ng	# 56
22) 2,4,5-Trichlorophenol	12.77	196	248	0.10	ng	# 85
25) 4-Nitrophenol	14.54	139	61	0.25	ng	# 87
28) Hexachlorobenzene	16.32	284	546	0.12	ng	# 1
31) Benzidine	19.30	184	213	0.04	ng	# 80
33) 3,3'-Dichlorobenzidine	21.14	252	618	0.25	ng	# 79

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

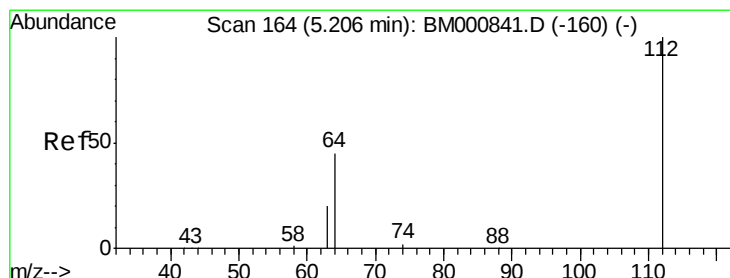
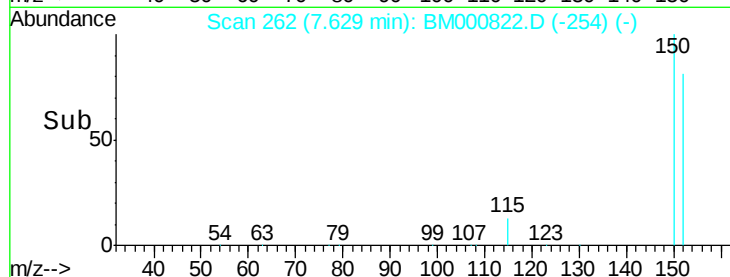
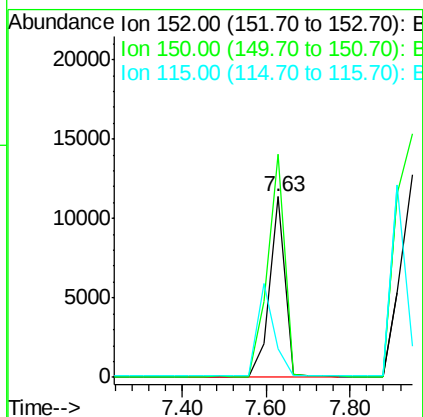
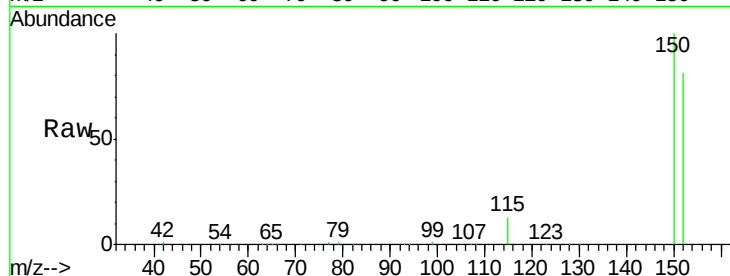


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.63 min Scan# 262
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Instrument :
BNA_M
ClientSampleId :
MDL-02-S

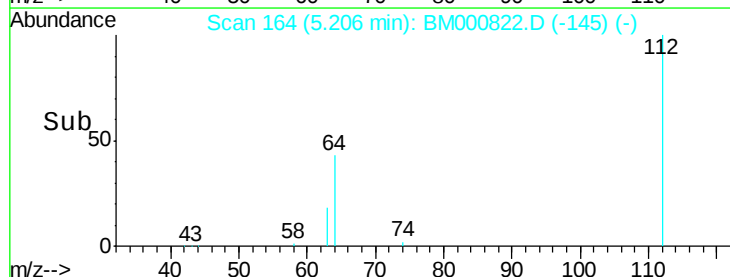
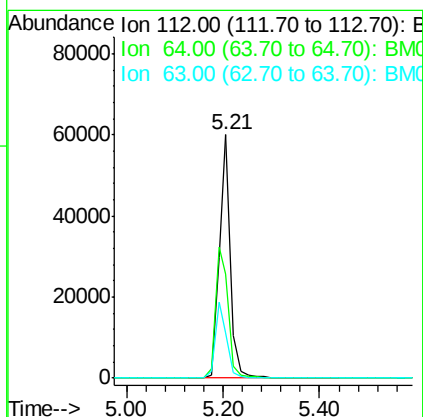
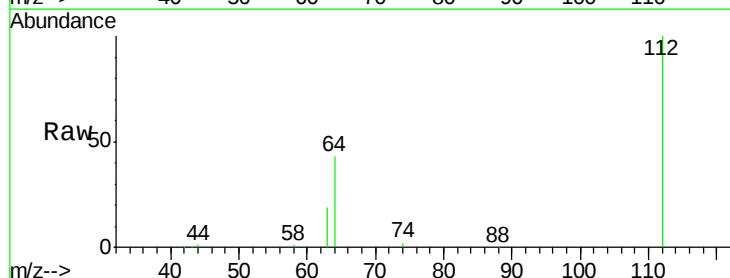
Tot Ion:152 Resp: 28958
Ion Ratio Lower Upper
152 100
150 123.5 99.8 149.6
115 16.1 13.5 20.3

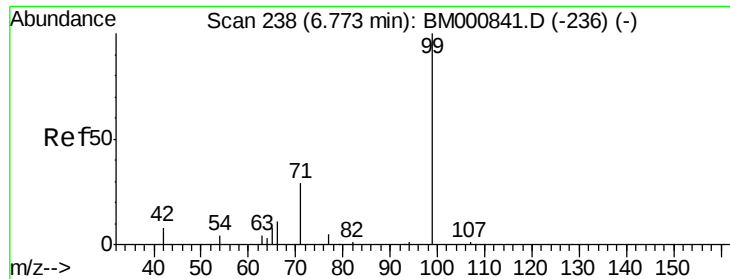


#4

2-Fluorophenol
Concen: 12.19 ng
RT: 5.21 min Scan# 164
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Tgt Ion:112 Resp: 97237
Ion Ratio Lower Upper
112 100
64 42.6 40.3 60.5
63 18.6 19.0 28.4#





#5

Phenol-d6

Concen: 10.62 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

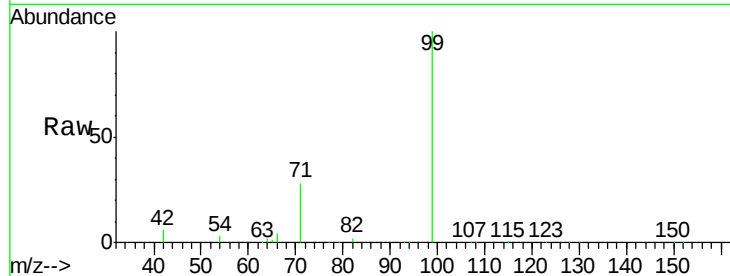
Tot Ion: 99 Resp: 162323

Ion Ratio Lower Upper

99 100

42 6.2 10.2 15.4#

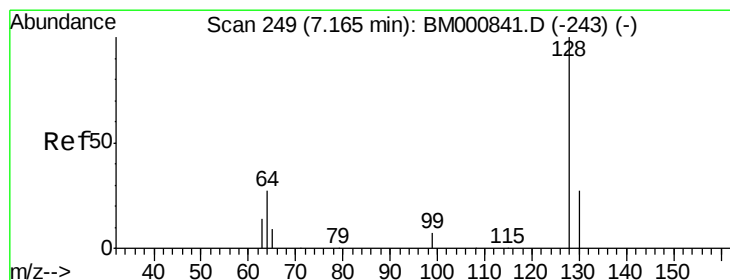
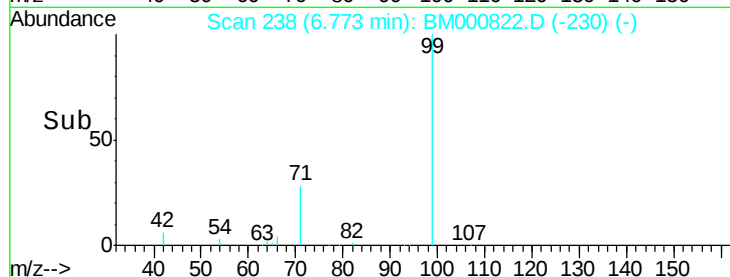
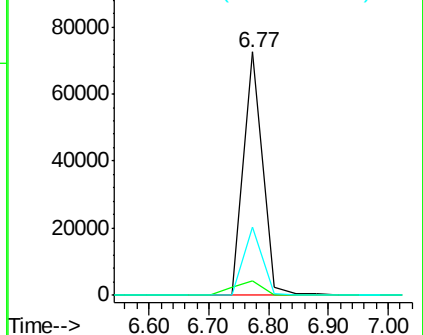
71 28.1 28.6 43.0#



Abundance Ion 99.00 (98.70 to 99.70): BM000822.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000822.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000822.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.26 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

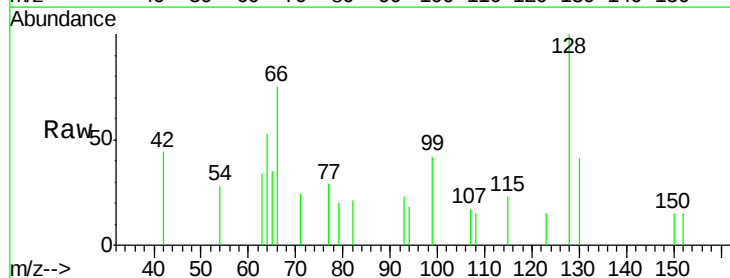
Tgt Ion: 128 Resp: 693

Ion Ratio Lower Upper

128 100

130 41.4 7.6 47.6

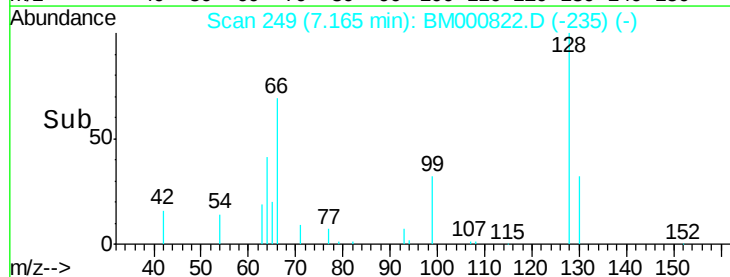
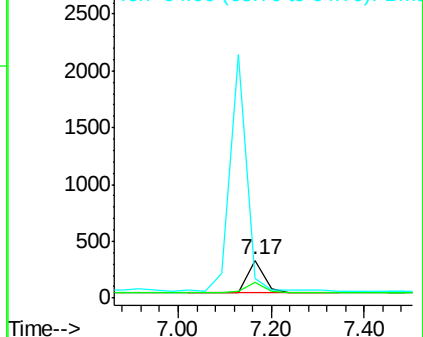
64 53.5 23.1 63.1

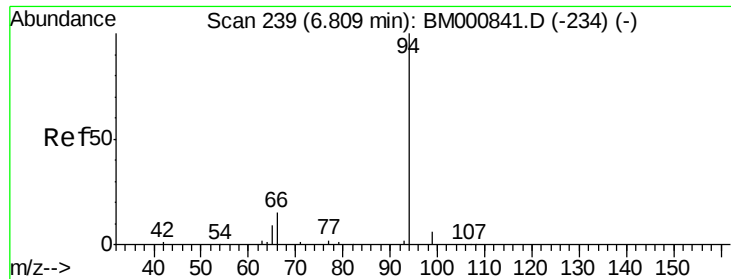


Abundance Ion 128.00 (127.70 to 128.70): BM000822.D (-243) (-)

Ion 130.00 (129.70 to 130.70): BM000822.D (-243) (-)

Ion 64.00 (63.70 to 64.70): BM000822.D (-243) (-)





#7

Phenol

Concen: 0.08 ng

RT: 6.81 min Scan# 239

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

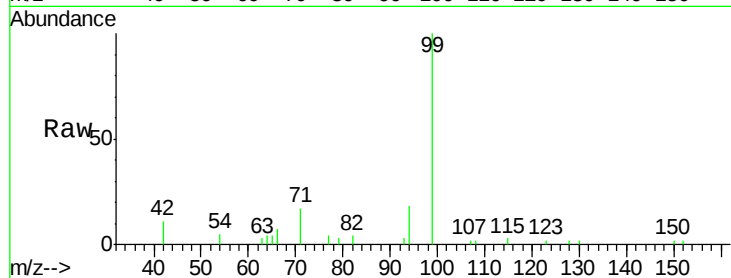
Tot Ion: 94 Resp: 932

Ion Ratio Lower Upper

94 100

65 23.6 0.0 32.0

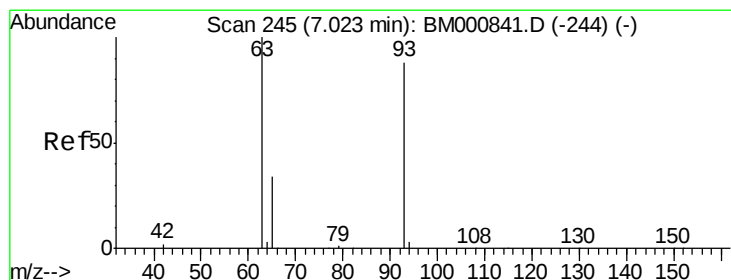
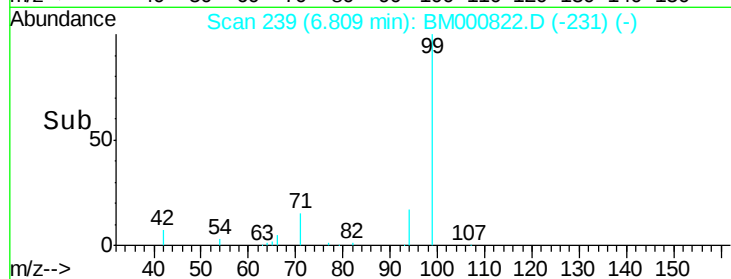
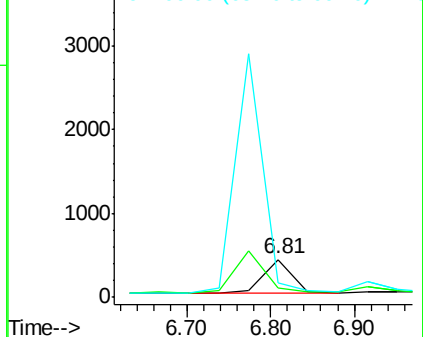
66 37.2 0.0 37.6



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: BM000822.D

Acq: 03 Apr 2015 00:32

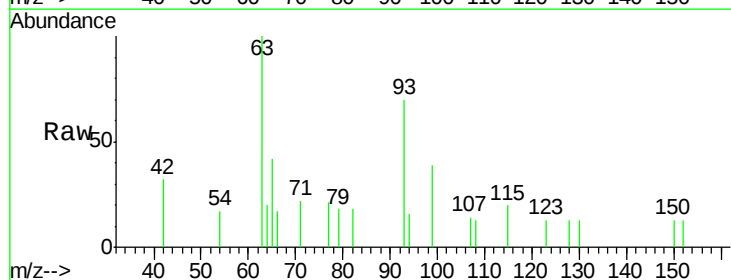
Tgt Ion: 93 Resp: 605

Ion Ratio Lower Upper

93 100

63 143.6 118.9 158.9

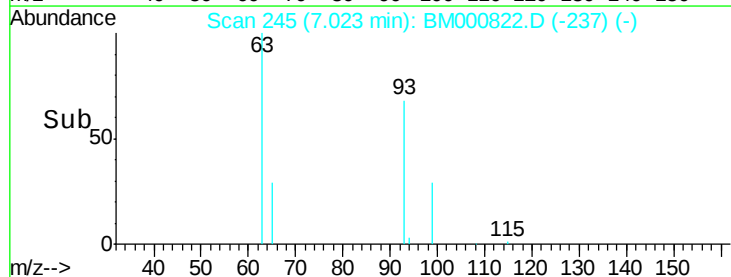
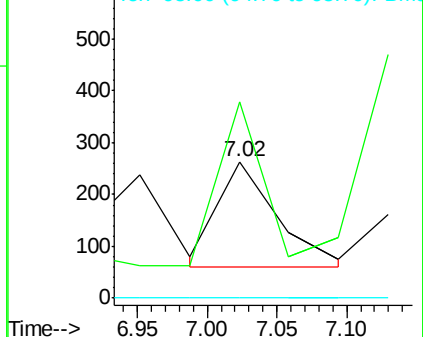
95 0.0 0.0 20.0

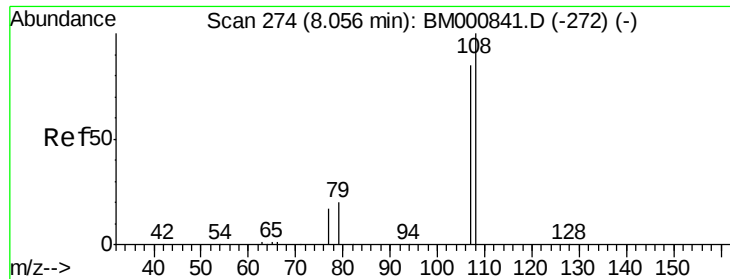


Abundance Ion 93.00 (92.70 to 93.70): BM000841.D (-244) (-)

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: BM000822.D

Acq: 03 Apr 2015 00:32

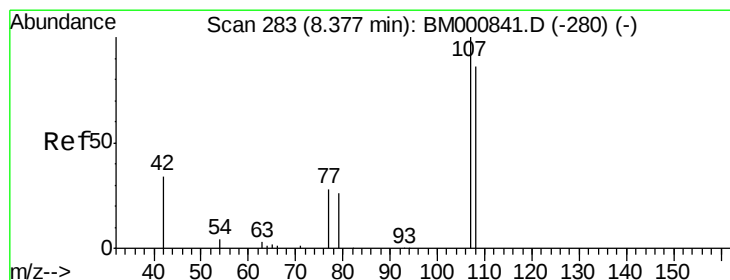
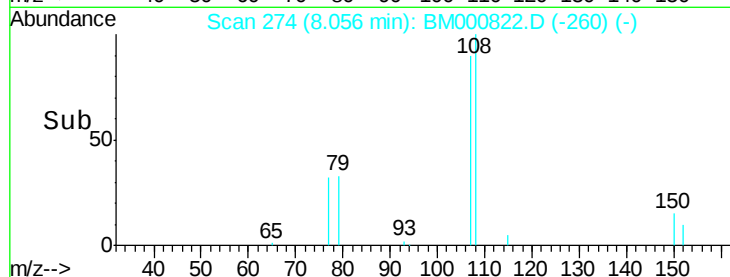
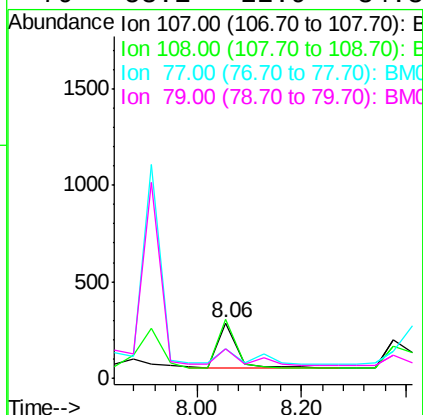
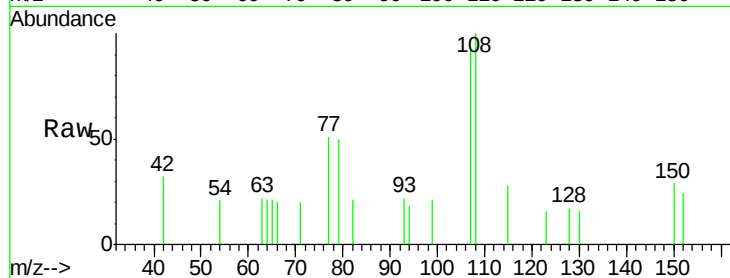
Instrument :

BNA_M

ClientSampleId :

MDL-02-S

Tot Ion:	107	Resp:	564
Ion	Ratio	Lower	Upper
107	100		
108	107.3	92.0	138.0
77	54.5	20.6	31.0#
79	53.1	22.9	34.3#



#10

3+4-Methylphenols

Concen: 0.17 ng

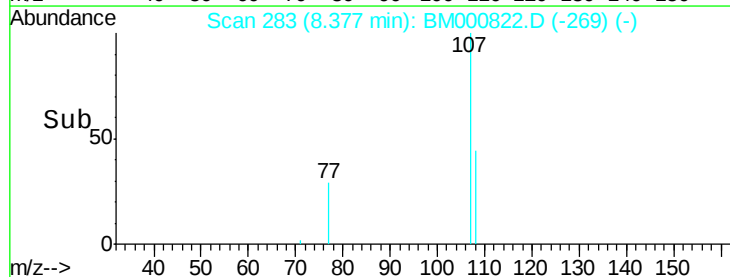
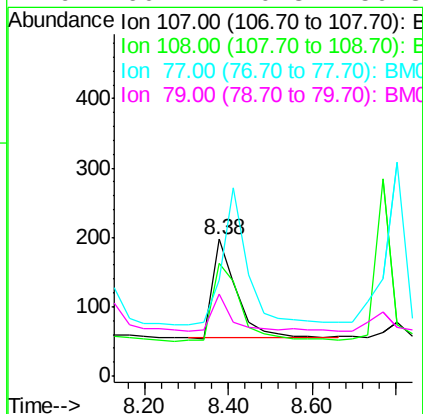
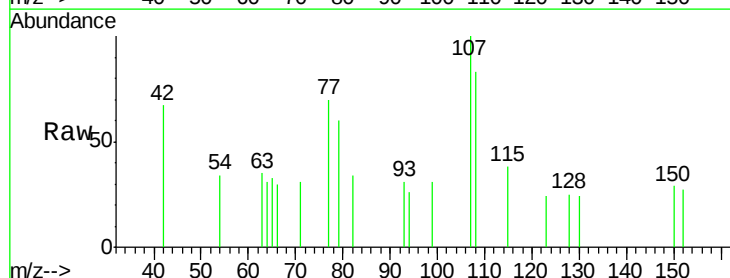
RT: 8.38 min Scan# 283

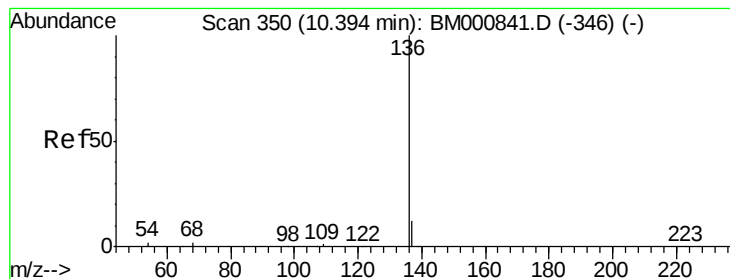
Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Tgt Ion:	107	Resp:	573
Ion	Ratio	Lower	Upper
107	100		
108	82.7	62.6	102.6
77	70.1	12.8	52.8#
79	60.4	10.3	50.3#





#11

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 350

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

Tot Ion:136 Resp: 138797

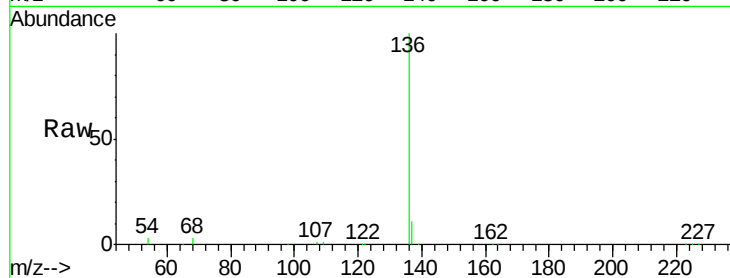
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 2.9 2.2 3.4

68 2.8 2.2 3.2

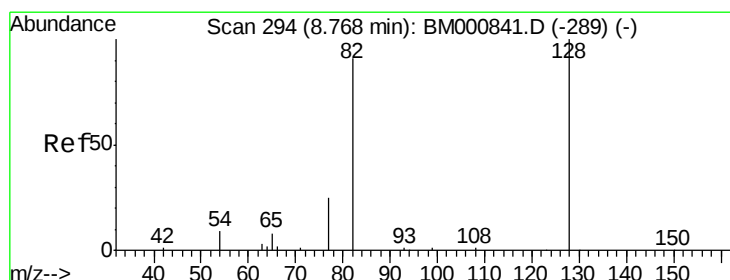
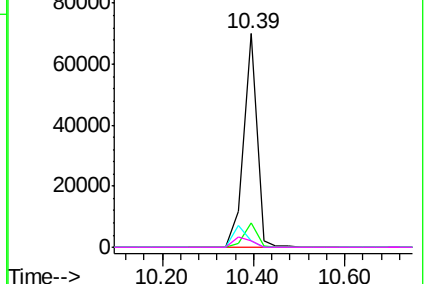
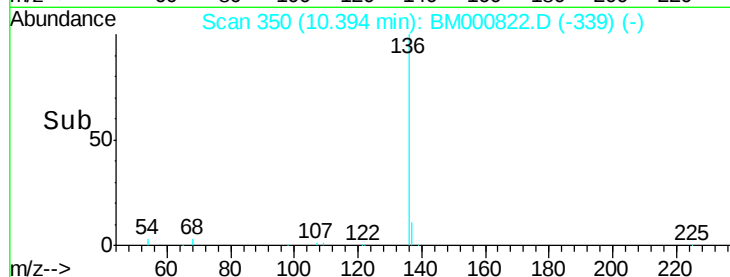


Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.14 ng

RT: 8.77 min Scan# 294

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

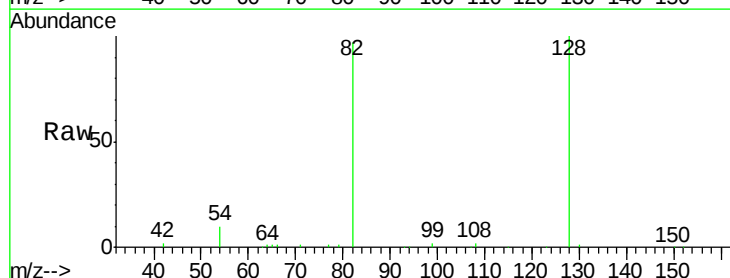
Tgt Ion: 82 Resp: 46256

Ion Ratio Lower Upper

82 100

128 102.9 72.5 108.7

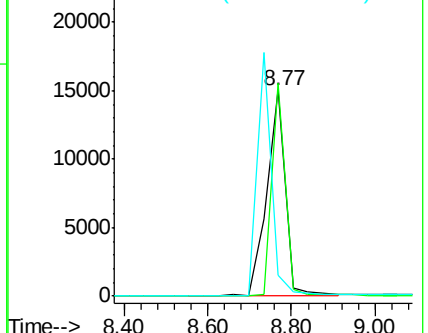
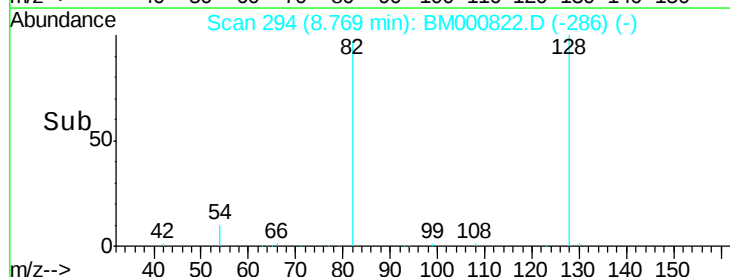
54 10.2 11.8 17.8#

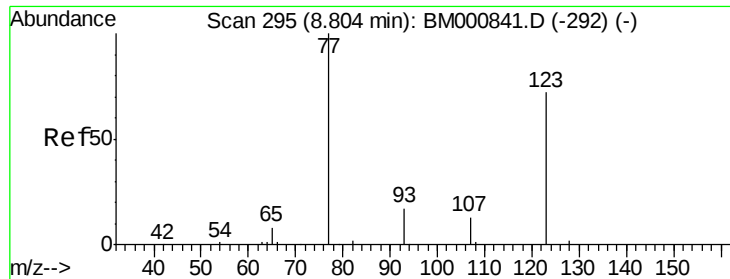


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

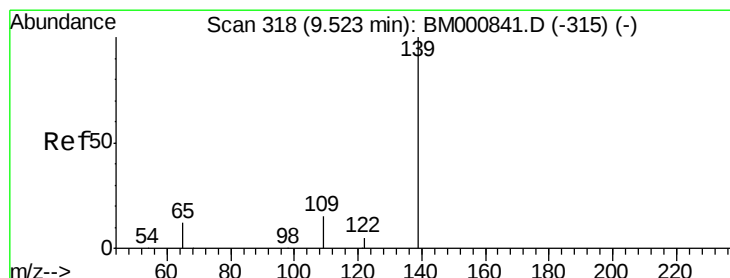
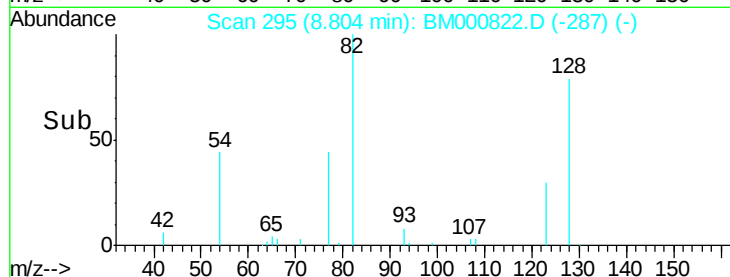
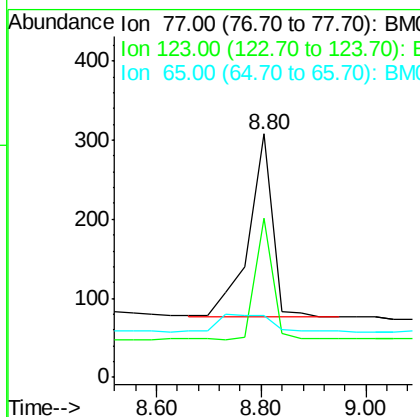
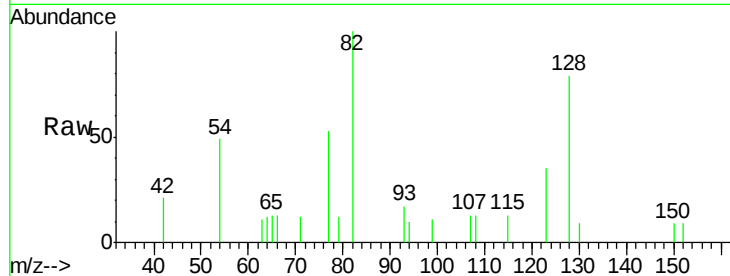




#13
Nitrobenzene
Concen: 0.10 ng
RT: 8.80 min Scan# 295
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

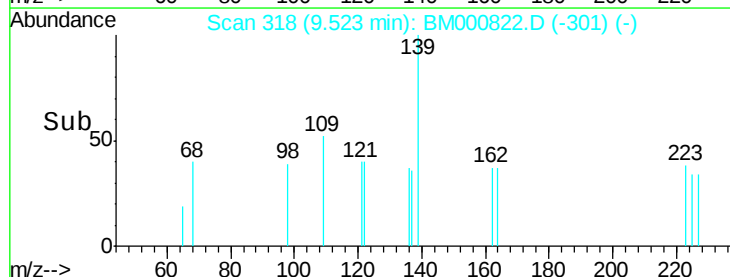
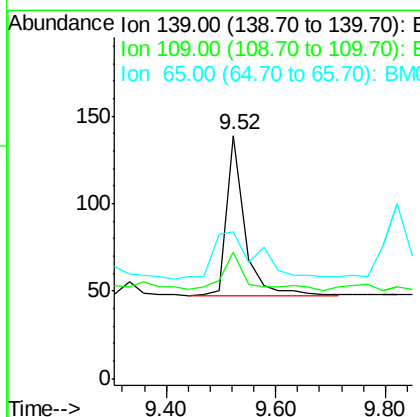
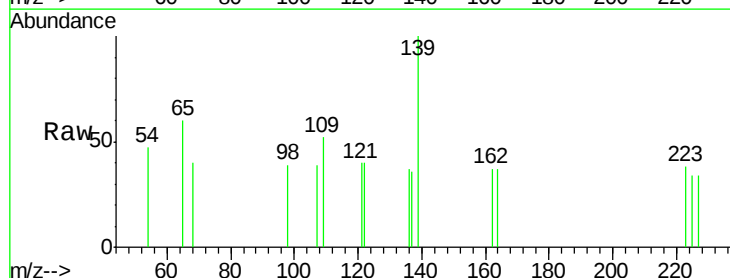
Instrument :
BNA_M
ClientSampleId :
MDL-02-S

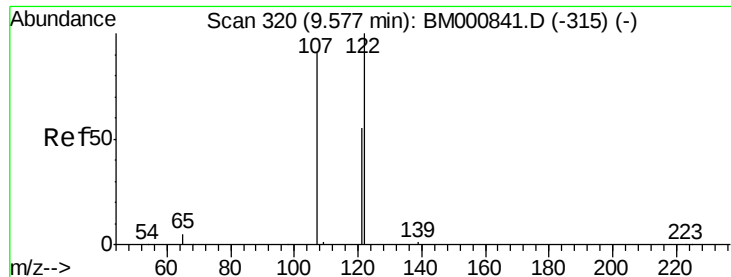
Tot Ion: 77 Resp: 735
Ion Ratio Lower Upper
77 100
123 65.6 45.8 68.6
65 25.3 8.2 12.4#



#14
2-Nitrophenol
Concen: 0.19 ng
RT: 9.52 min Scan# 318
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Tgt Ion: 139 Resp: 217
Ion Ratio Lower Upper
139 100
109 51.8 15.0 22.6#
65 60.4 14.2 21.4#





#15

2,4-Dimethylphenol

Concen: 0.06 ng

RT: 9.58 min Scan# 320

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

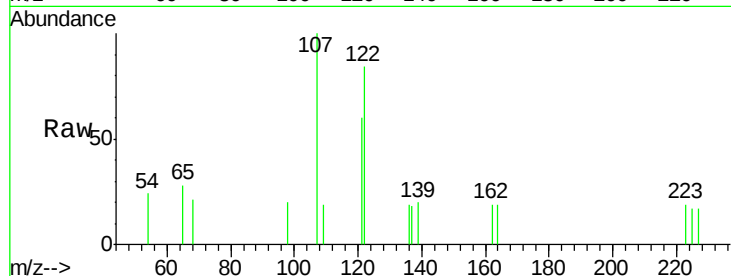
Tot Ion:122 Resp: 443

Ion Ratio Lower Upper

122 100

107 119.4 78.2 117.4#

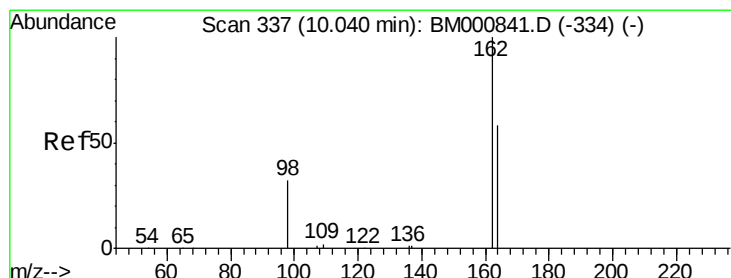
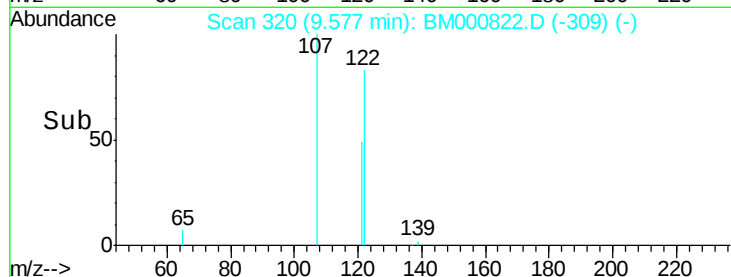
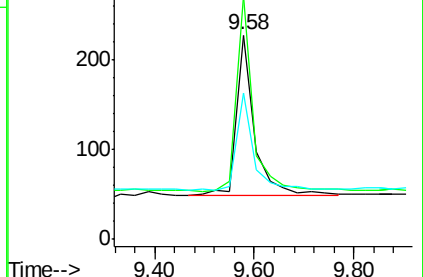
121 71.8 45.4 68.0#



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



#16

2,4-Dichlorophenol

Concen: 0.27 ng

RT: 10.07 min Scan# 338

Delta R.T. 0.03 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

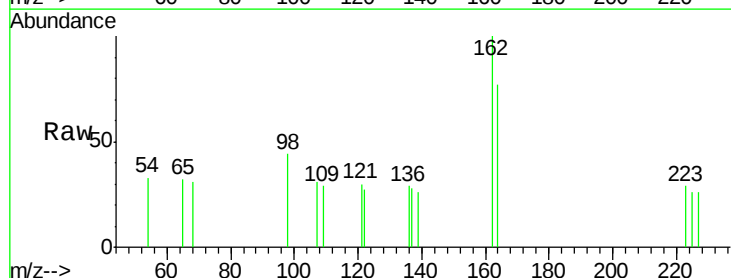
Tgt Ion:162 Resp: 418

Ion Ratio Lower Upper

162 100

164 76.8 37.1 77.1

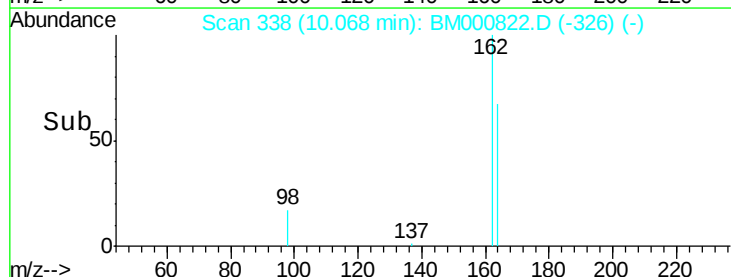
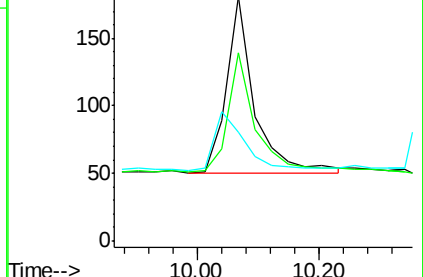
98 44.2 19.5 59.5

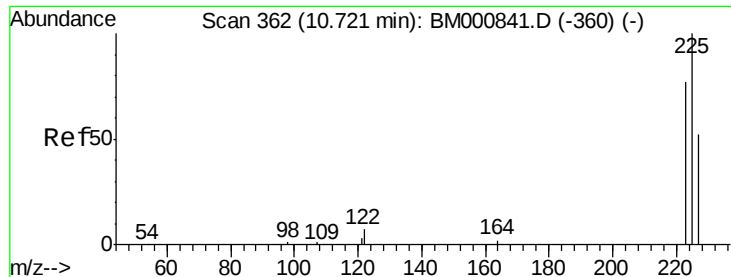


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM

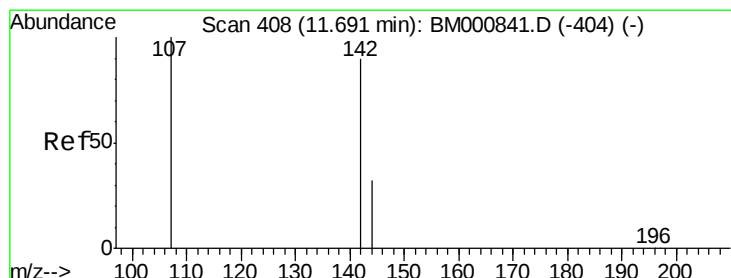
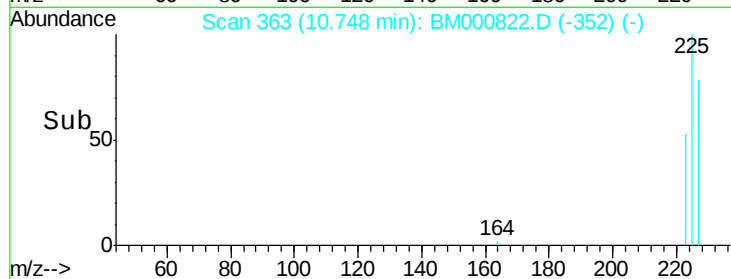
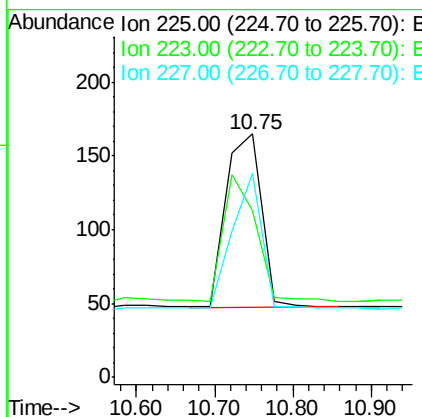
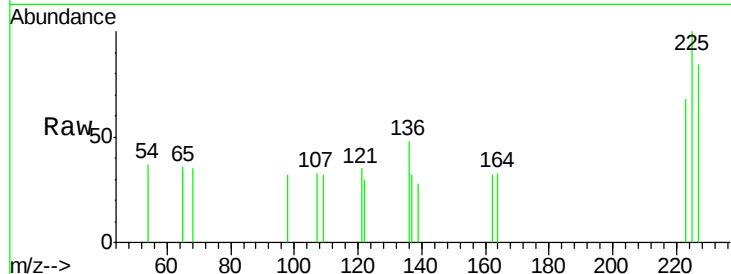




#17
Hexachlorobutadiene
Concen: 0.07 ng
RT: 10.75 min Scan# 363
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

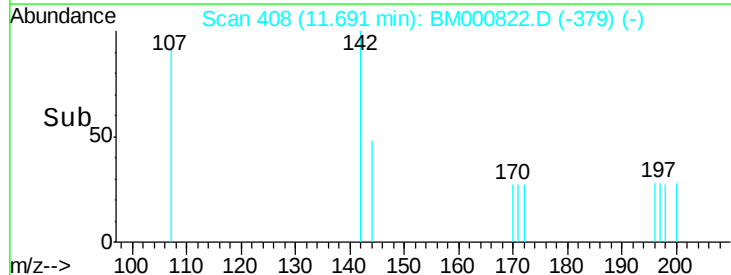
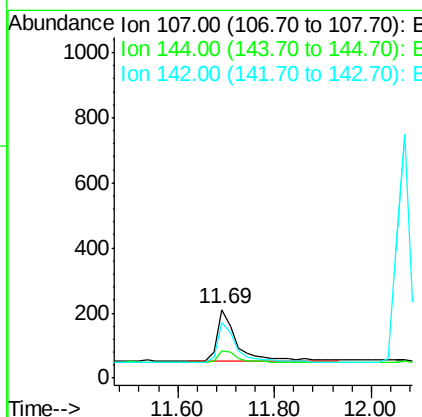
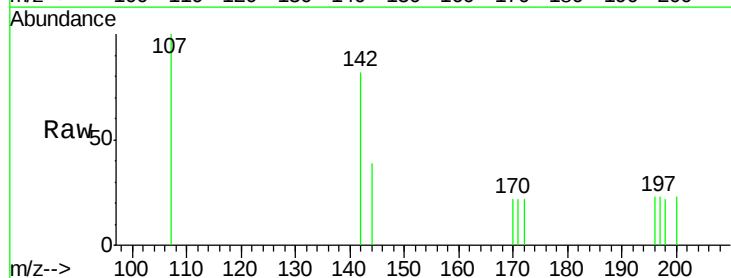
Instrument :
BNA_M
ClientSampleId :
MDL-02-S

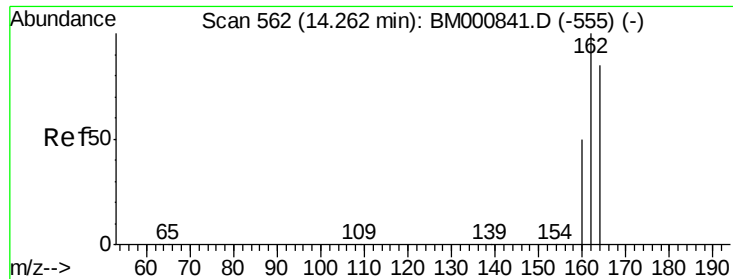
Tot Ion:225 Resp: 374
Ion Ratio Lower Upper
225 100
223 68.5 40.8 61.2#
227 83.6 62.8 94.2



#18
4-Chloro-3-methylphenol
Concen: 0.06 ng
RT: 11.69 min Scan# 408
Delta R.T. 0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Tgt Ion:107 Resp: 440
Ion Ratio Lower Upper
107 100
144 39.3 25.8 38.8#
142 81.5 71.3 106.9

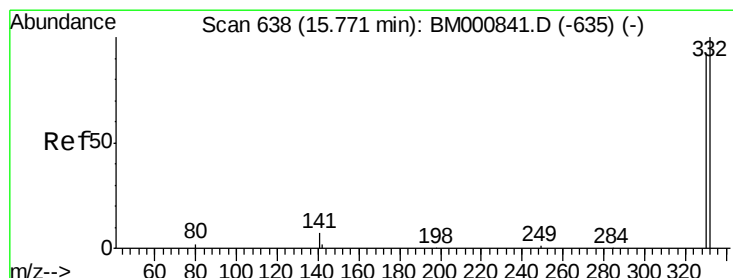
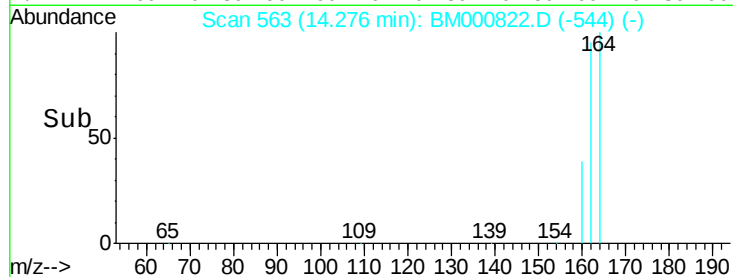
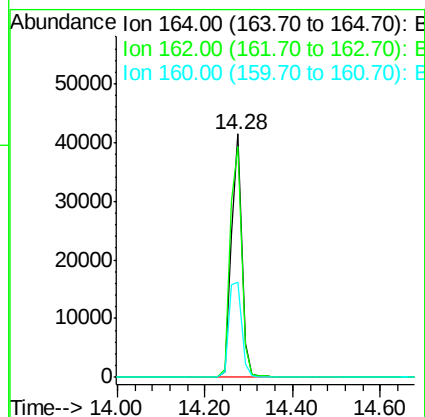
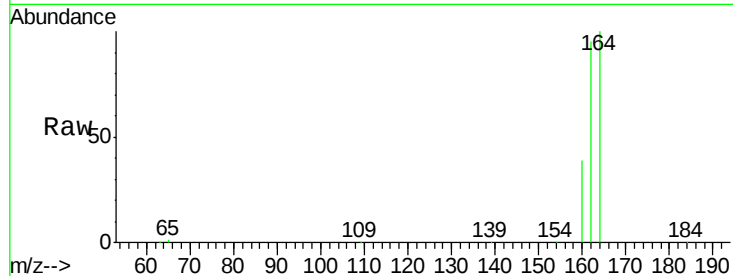




#19
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.28 min Scan# 563
Delta R.T. -0.00 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

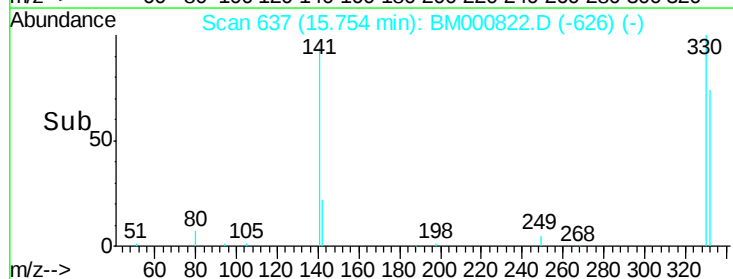
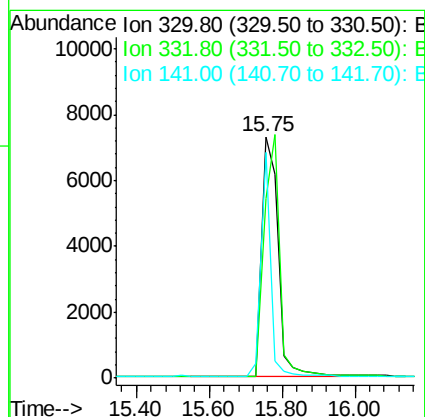
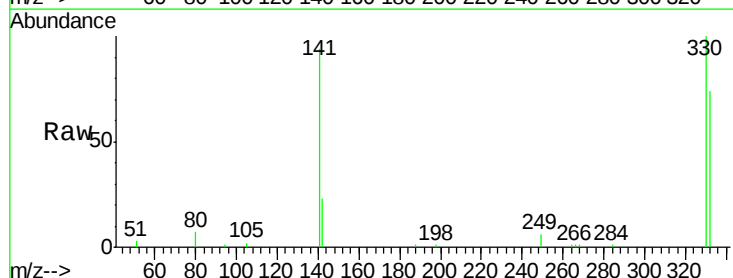
Instrument :
BNA_M
ClientSampled :
MDL-02-S

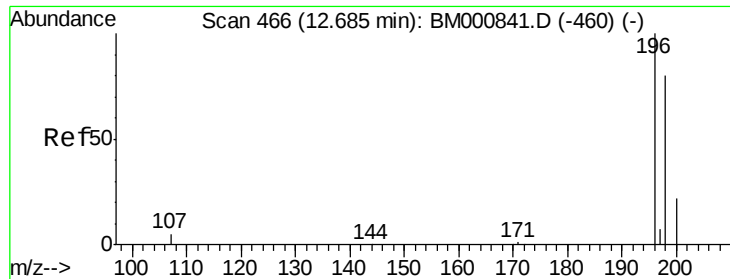
Tot Ion:164 Resp: 68177
Ion Ratio Lower Upper
164 100
162 94.8 74.2 111.2
160 39.1 30.4 45.6



#20
2,4,6-Tribromophenol
Concen: 7.91 ng
RT: 15.75 min Scan# 637
Delta R.T. -0.02 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Tgt Ion:330 Resp: 22744
Ion Ratio Lower Upper
330 100
332 0.0 78.7 118.1#
141 54.3 0.0 0.0#





#21

2,4,6-Trichlorophenol

Concen: 0.17 ng

RT: 12.70 min Scan# 467

Delta R.T. 0.02 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

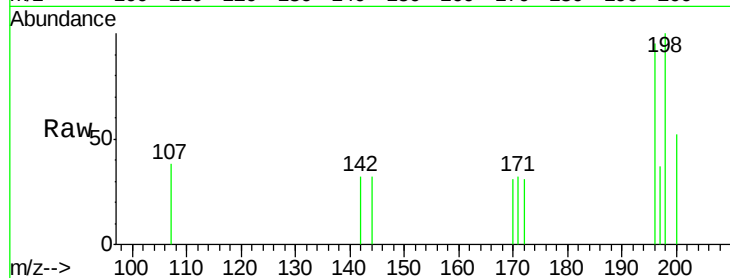
Tot Ion:196 Resp: 212

Ion Ratio Lower Upper

196 100

198 105.5 59.5 89.3#

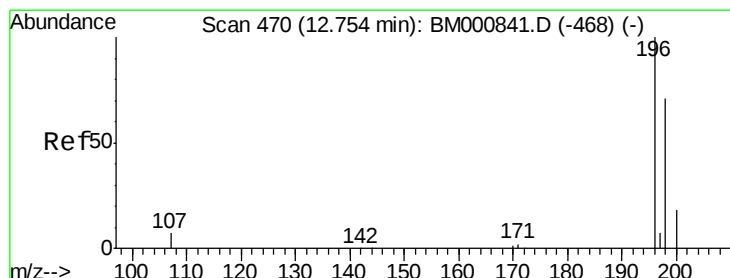
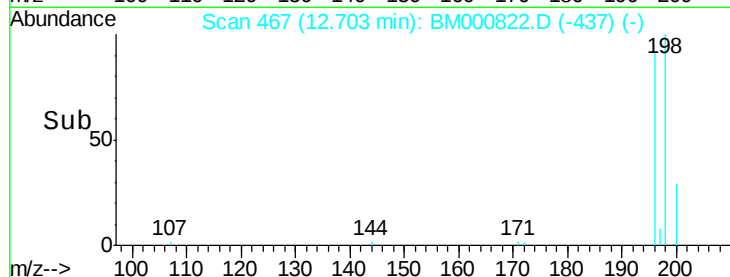
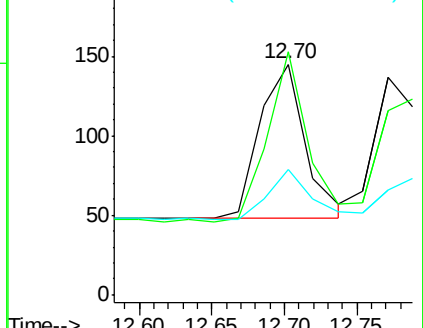
200 54.5 17.4 26.0#



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: 12.77 min Scan# 471

Delta R.T. 0.02 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Tgt Ion:196 Resp: 248

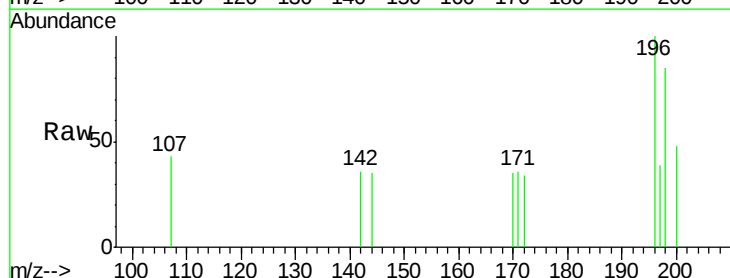
Ion Ratio Lower Upper

196 100

198 84.7 57.9 86.9

97 0.0 0.0 0.0

132 0.0 0.0 0.0

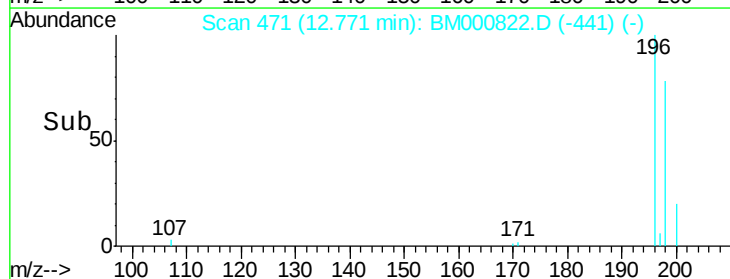
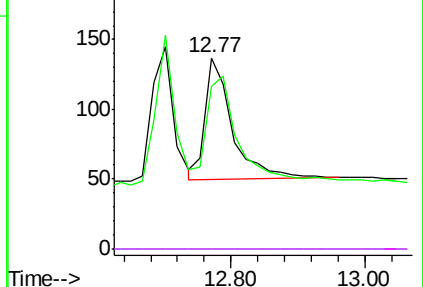


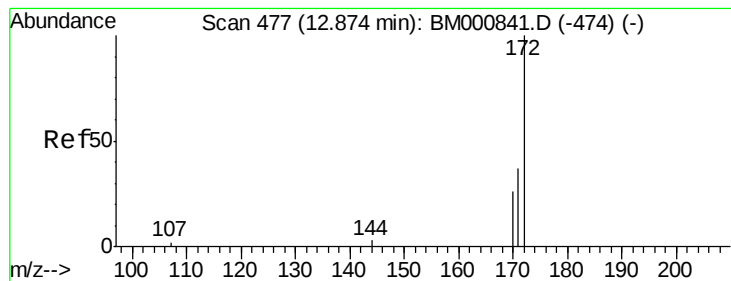
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM0

Ion 132.00 (131.70 to 132.70): E





#23

2-Fluorobiphenyl

Concen: 9.03 ng

RT: 12.87 min Scan# 477

Delta R.T. 0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

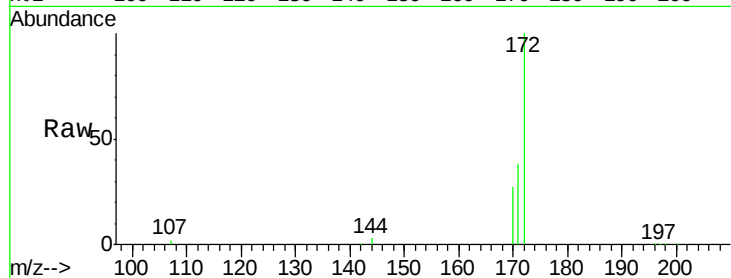
Tot Ion:172 Resp: 189774

Ion Ratio Lower Upper

172 100

171 37.9 30.6 46.0

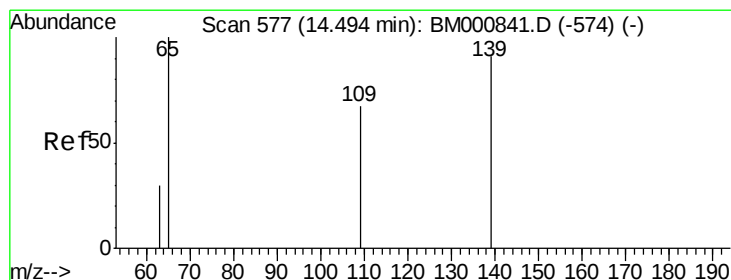
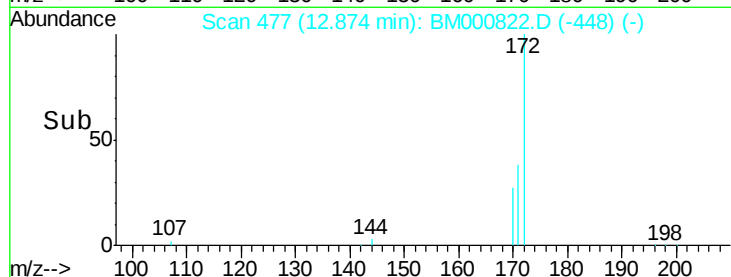
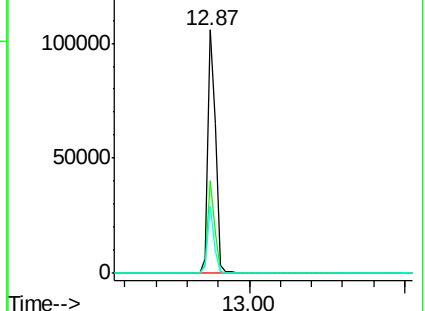
170 27.5 22.2 33.2



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#25

4-Nitrophenol

Concen: 0.25 ng

RT: 14.54 min Scan# 580

Delta R.T. 0.05 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

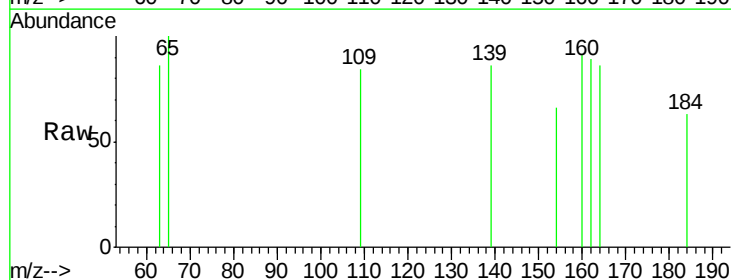
Tgt Ion:139 Resp: 61

Ion Ratio Lower Upper

139 100

109 98.5 58.2 98.2#

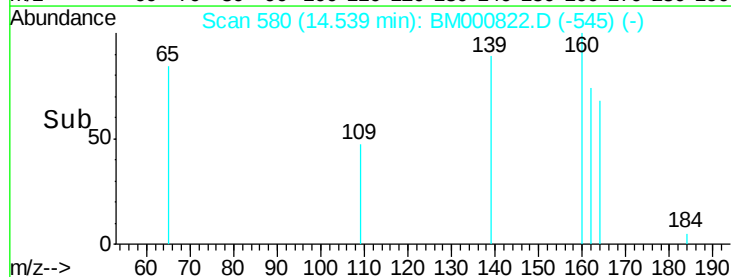
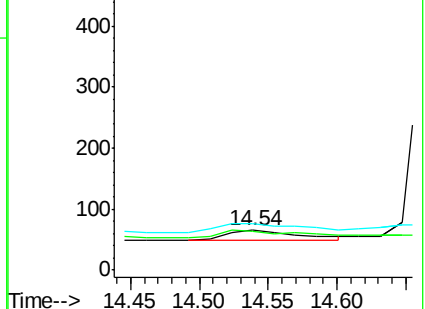
65 116.9 90.4 130.4

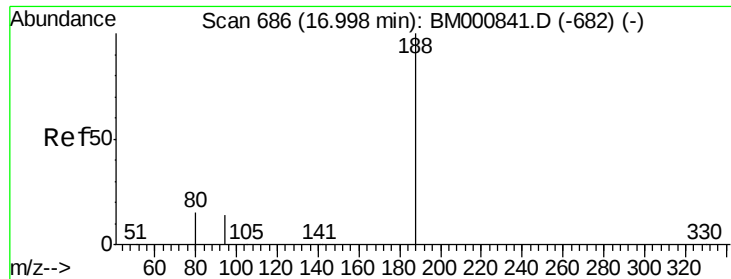


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BM

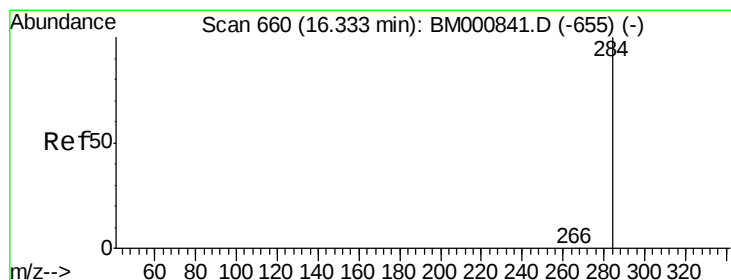
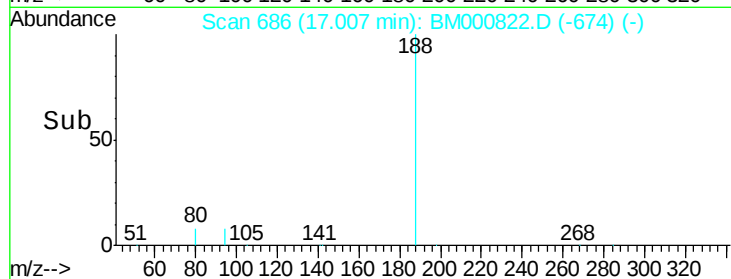
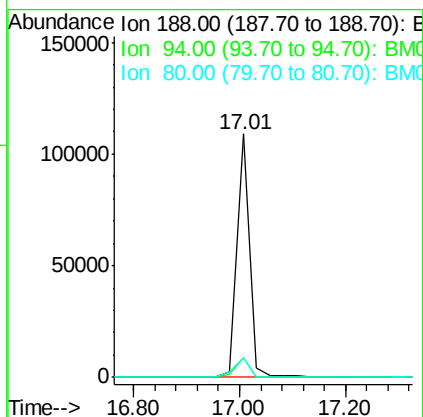
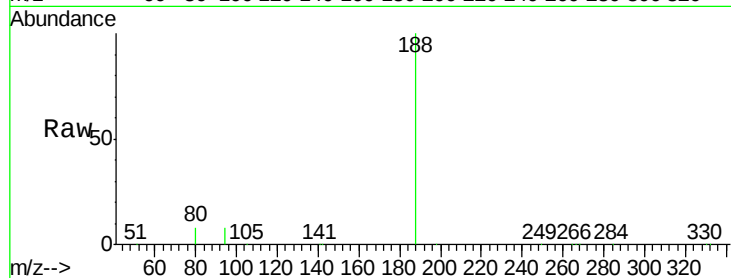




#26
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.01 min Scan# 686
Delta R.T. 0.01 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

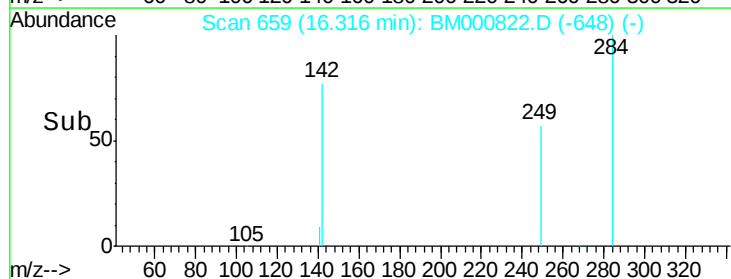
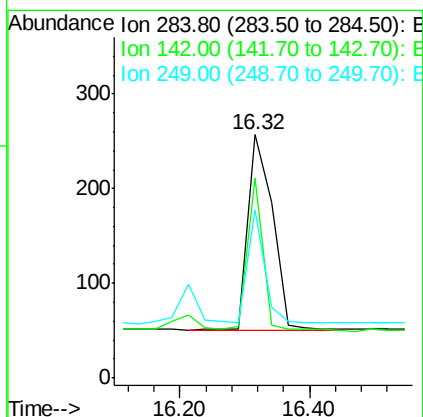
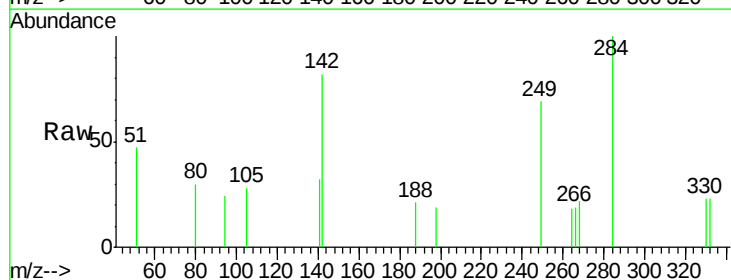
Instrument :
BNA_M
ClientSampleId :
MDL-02-S

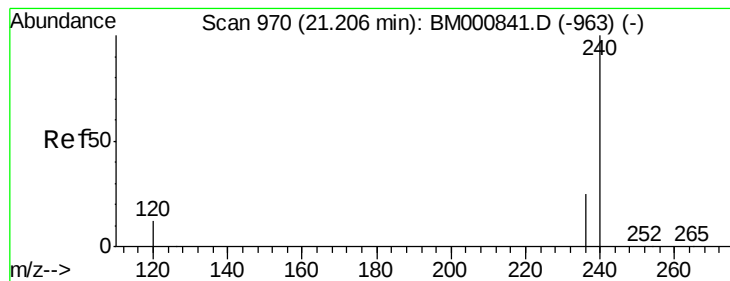
Tot Ion:188 Resp: 180931
Ion Ratio Lower Upper
188 100
94 8.1 13.0 19.6#
80 7.9 14.7 22.1#



#28
Hexachlorobenzene
Concen: 0.12 ng
RT: 16.32 min Scan# 659
Delta R.T. -0.02 min
Lab File: BM000822.D
Acq: 03 Apr 2015 00:32

Tgt Ion:284 Resp: 546
Ion Ratio Lower Upper
284 100
142 82.1 6.5 9.7#
249 68.9 12.6 18.8#





#30

Chrysene-d12

Concen: 5.00 ng

RT: 21.20 min Scan# 969

Delta R.T. -0.01 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

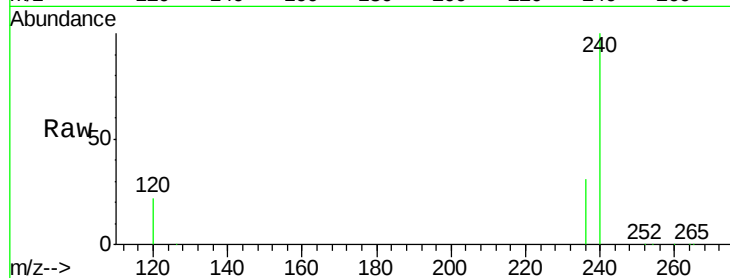
Tot Ion:240 Resp: 129706

Ion Ratio Lower Upper

240 100

120 22.2 11.3 16.9#

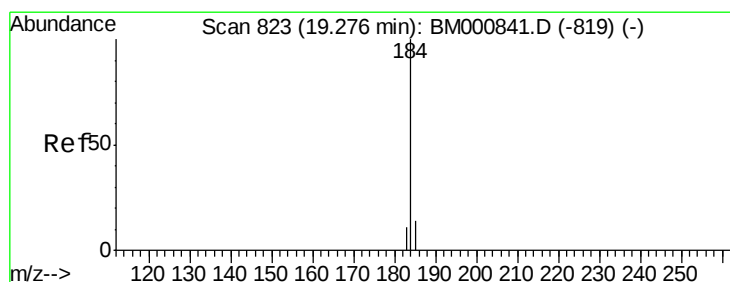
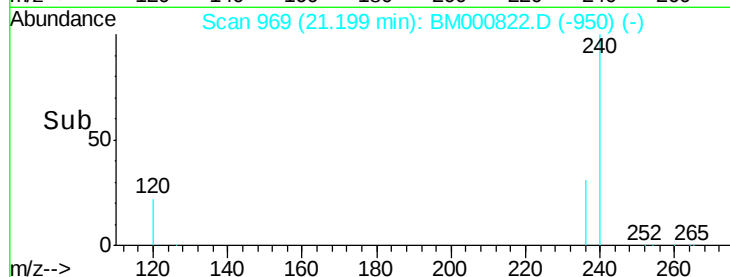
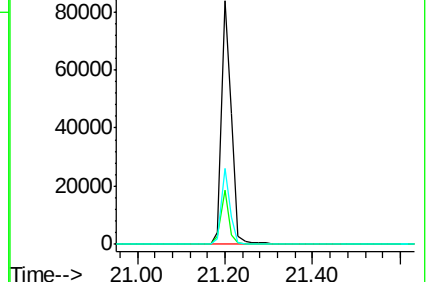
236 31.4 21.1 31.7



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: 0.04 ng

RT: 19.30 min Scan# 824

Delta R.T. -0.00 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

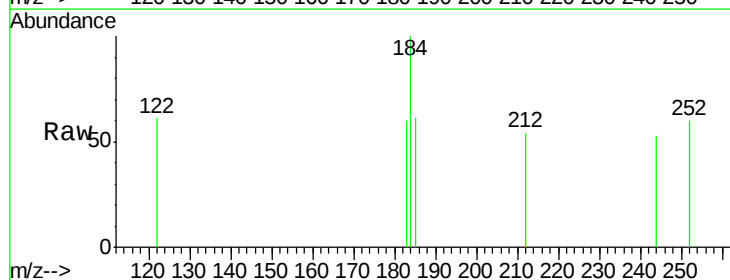
Tgt Ion:184 Resp: 213

Ion Ratio Lower Upper

184 100

185 60.7 39.1 58.7#

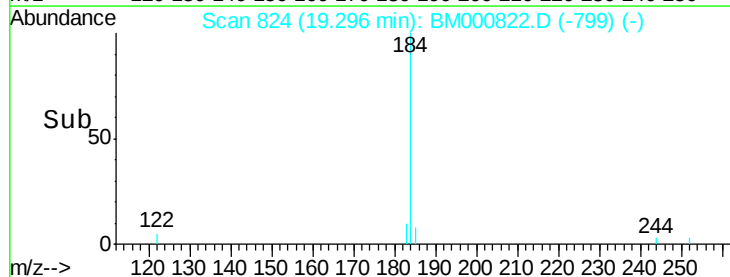
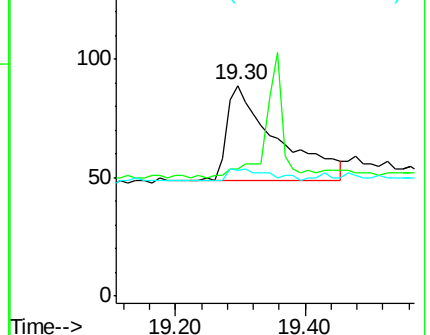
183 59.6 36.1 54.1#

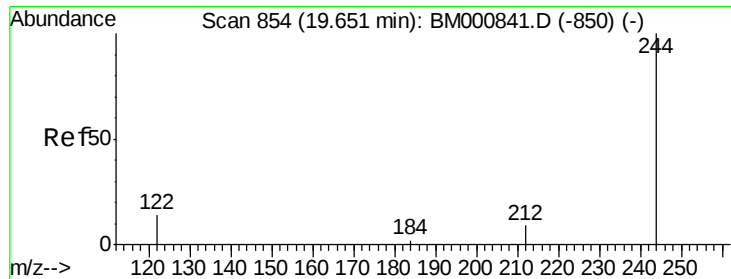


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#32

Terphenyl-d14

Concen: 10.26 ng

RT: 19.66 min Scan# 854

Delta R.T. 0.01 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

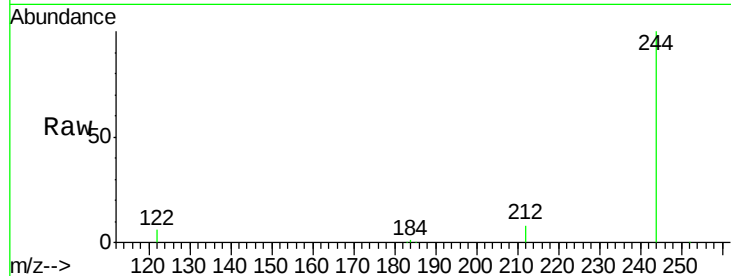
Tot Ion:244 Resp: 160134

Ion Ratio Lower Upper

244 100

212 7.7 8.0 12.0#

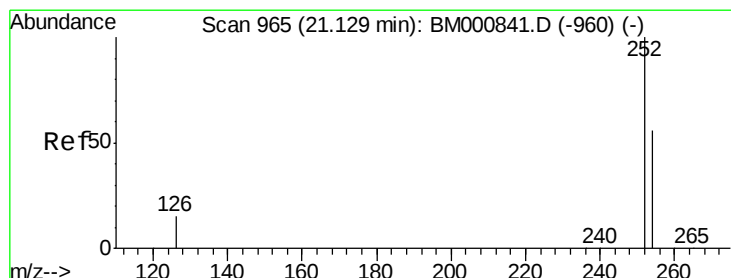
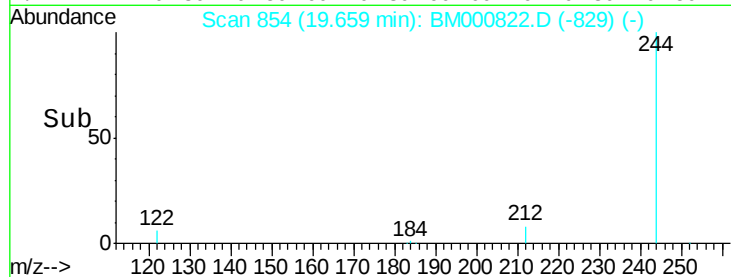
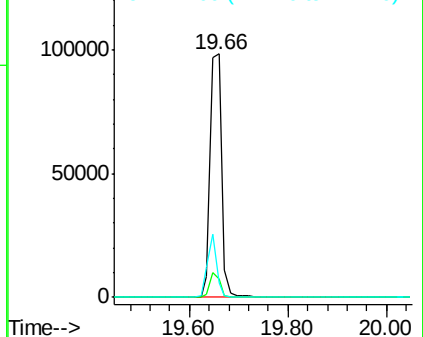
122 5.8 14.7 22.1#



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# 965

Delta R.T. 0.01 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

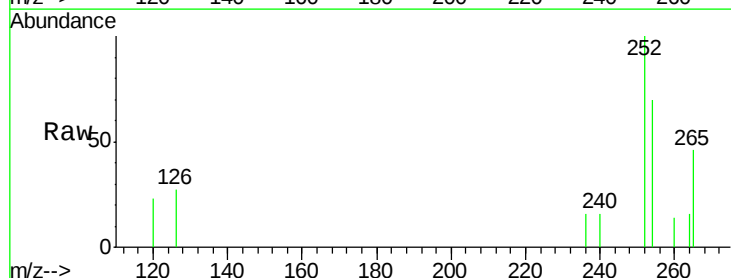
Tgt Ion:252 Resp: 618

Ion Ratio Lower Upper

252 100

254 70.4 44.5 66.7#

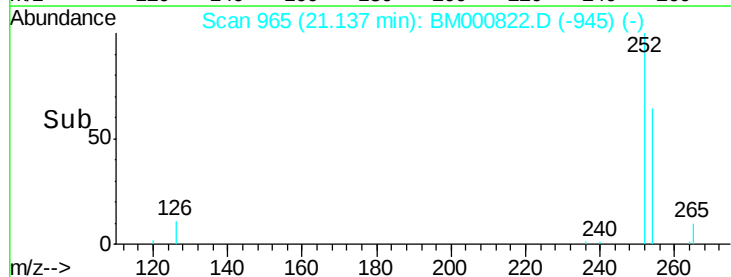
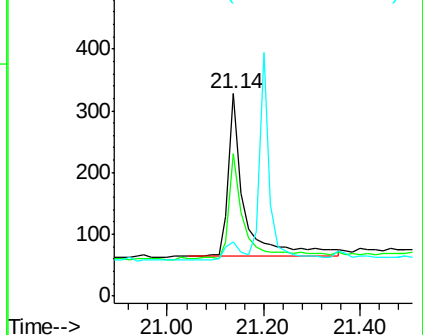
126 26.5 13.6 20.4#

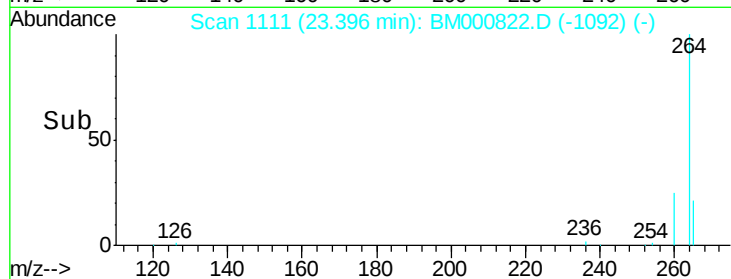
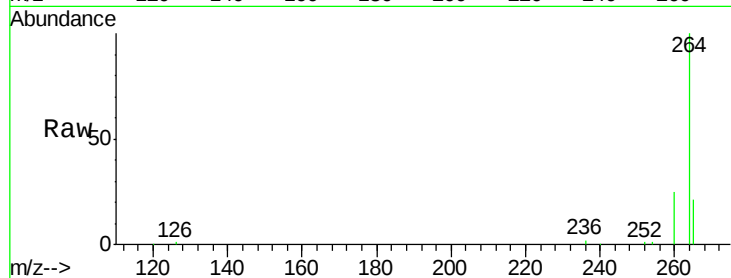
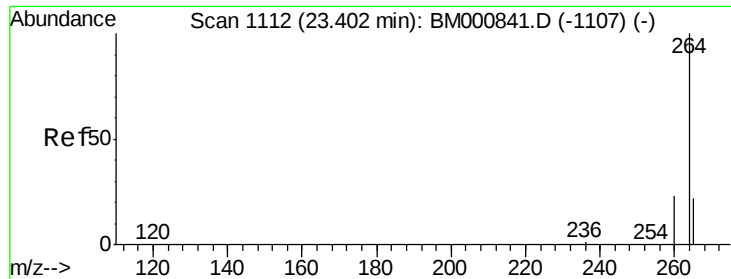


Abundance Ion 252.00 (251.70 to 252.70): E

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# 1111

Delta R.T. -0.01 min

Lab File: BM000822.D

Acq: 03 Apr 2015 00:32

Instrument :

BNA_M

ClientSampleId :

MDL-02-S

Tot Ion: 264 Resp: 120815

Ion Ratio Lower Upper

264 100

260 25.1 19.1 28.7

265 21.1 17.5 26.3

