

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040315\
 Data File : BM000823.D
 Acq On : 03 Apr 2015 01:08
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-03-S

Quant Time: Apr 03 18:34:22 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	26190	5.00	ng	0.00
11) Naphthalene-d8	10.39	136	123413	5.00	ng	0.00
19) Acenaphthene-d10	14.28	164	60998	5.00	ng	0.00
26) Phenanthrene-d10	17.01	188	158818	5.00	ng	0.00
30) Chrysene-d12	21.20	240	115700	5.00	ng	0.00
34) Perylene-d12	23.40	264	107751	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.21	112	90880	12.60	ng	0.00
5) Phenol-d6	6.77	99	153576	11.10	ng	0.00
12) Nitrobenzene-d5	8.77	82	42191	7.33	ng	0.00
20) 2,4,6-Tribromophenol	15.75	330	20018	7.78	ng	-0.02
23) 2-Fluorobiphenyl	12.87	172	178848	9.52	ng	0.00
32) Terphenyl-d14	19.66	244	147708	10.61	ng	0.00

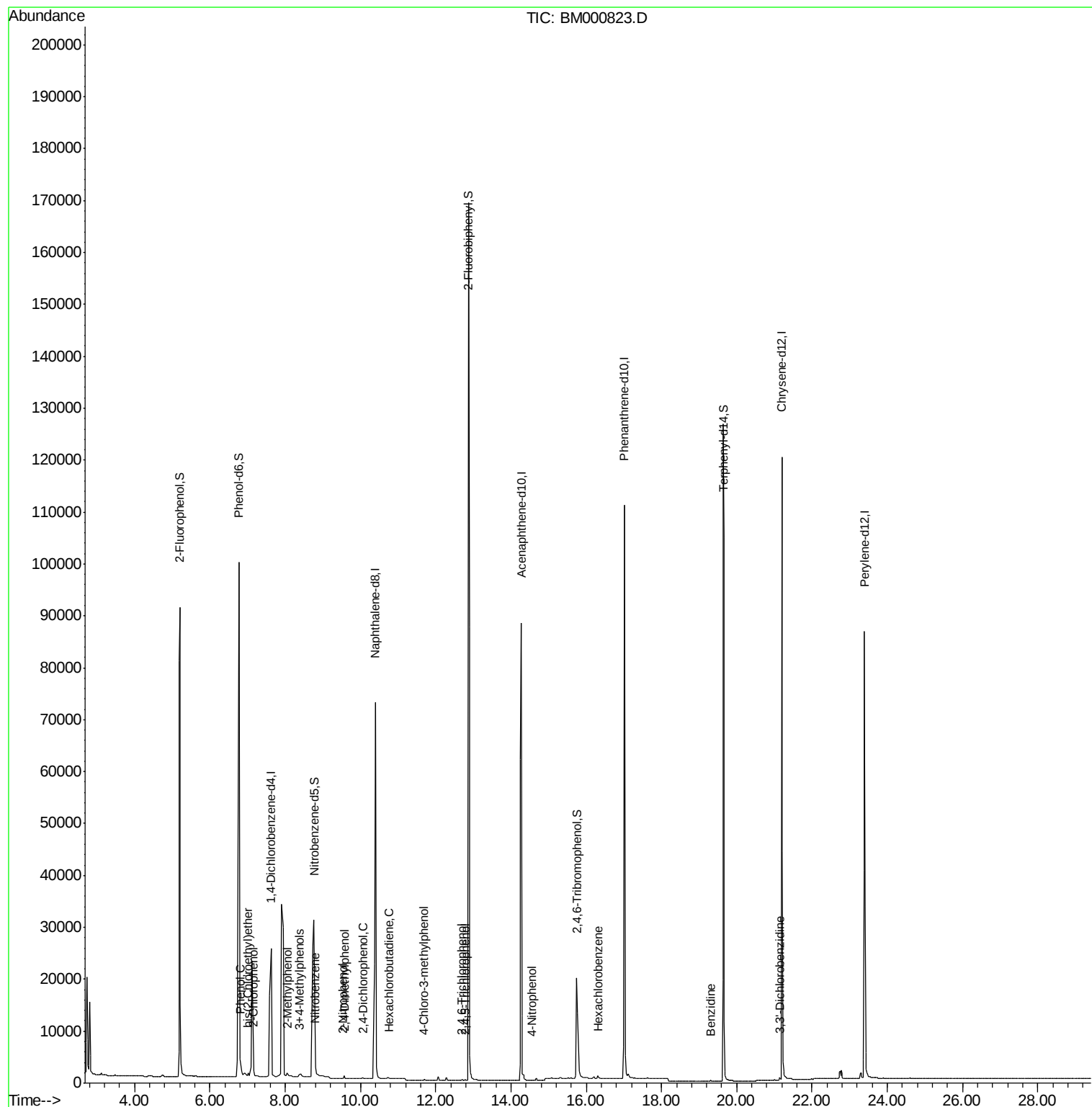
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) 2-Chlorophenol	7.17	128	686	0.27	ng	81
7) Phenol	6.81	94	911	0.08	ng	61
8) bis(2-Chloroethyl)ether	7.02	93	581m	0.27	ng	
9) 2-Methylphenol	8.06	107	534	0.22	ng	# 77
10) 3+4-Methylphenols	8.38	107	562	0.18	ng	# 72
13) Nitrobenzene	8.80	77	712	0.11	ng	# 82
14) 2-Nitrophenol	9.52	139	212	0.20	ng	# 12
15) 2,4-Dimethylphenol	9.58	122	420	0.06	ng	# 75
16) 2,4-Dichlorophenol	10.07	162	395	0.27	ng	# 79
17) Hexachlorobutadiene	10.75	225	387	0.08	ng	# 89
18) 4-Chloro-3-methylphenol	11.69	107	408	0.07	ng	# 89
21) 2,4,6-Trichlorophenol	12.70	196	184	0.16	ng	# 57
22) 2,4,5-Trichlorophenol	12.79	196	244	0.10	ng	# 65
25) 4-Nitrophenol	14.55	139	52m	0.25	ng	
28) Hexachlorobenzene	16.32	284	523	0.12	ng	# 1
31) Benzidine	19.30	184	596	0.25	ng	95
33) 3,3'-Dichlorobenzidine	21.14	252	602	0.25	ng	# 79

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

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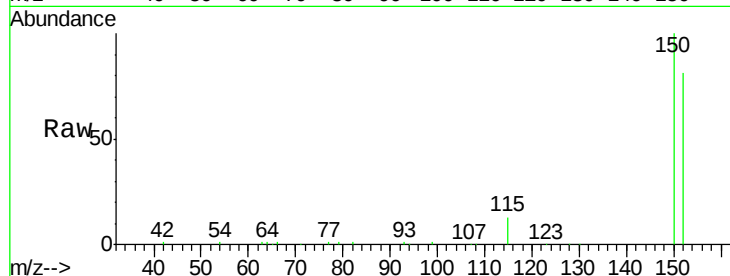


#1

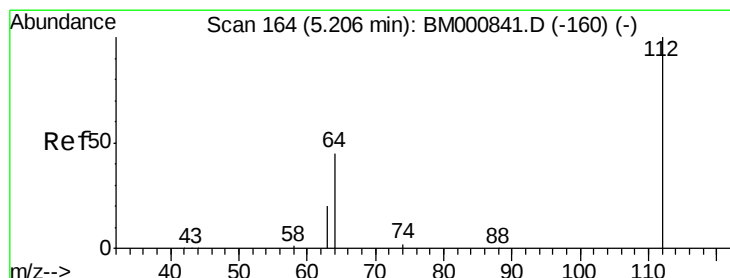
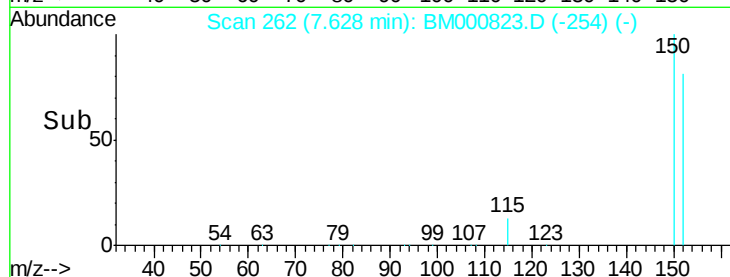
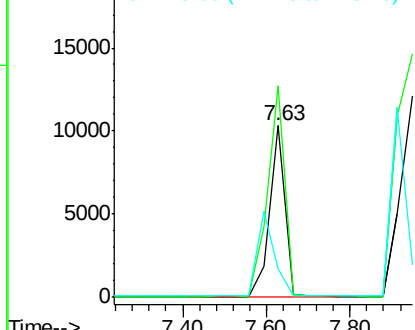
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.63 min Scan# 262
Delta R.T. -0.00 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Instrument :
BNA_M
ClientSampleId :
MDL-03-S

Tot Ion:152 Resp: 26190
Ion Ratio Lower Upper
152 100
150 123.4 99.8 149.6
115 16.5 13.5 20.3



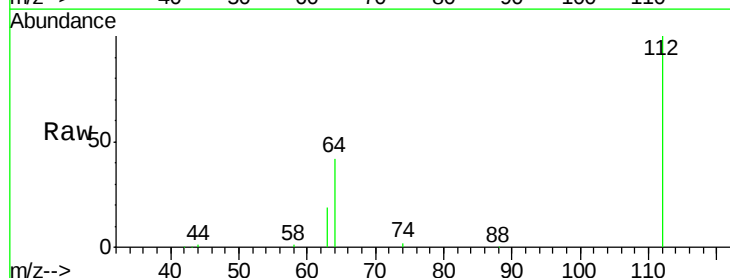
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



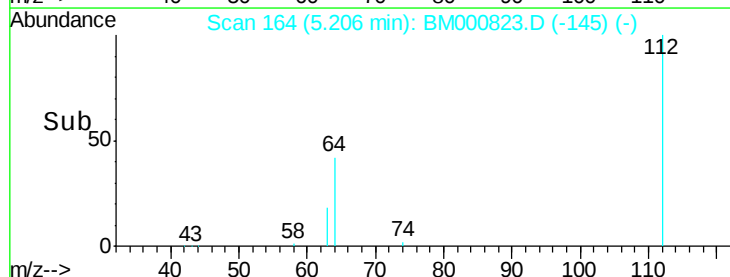
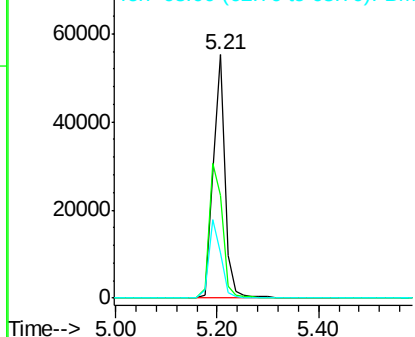
#4

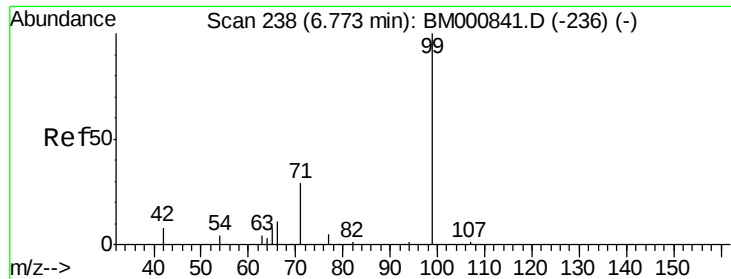
2-Fluorophenol
Concen: 12.60 ng
RT: 5.21 min Scan# 164
Delta R.T. -0.00 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Tgt Ion:112 Resp: 90880
Ion Ratio Lower Upper
112 100
64 42.2 40.3 60.5
63 18.5 19.0 28.4#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 11.10 ng

RT: 6.77 min Scan# 238

Delta R.T. 0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

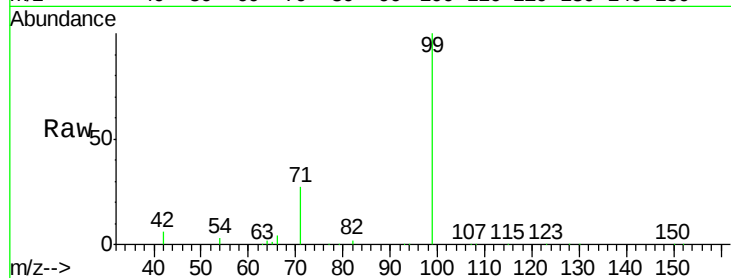
Tot Ion: 99 Resp: 153576

Ion Ratio Lower Upper

99 100

42 6.1 10.2 15.4#

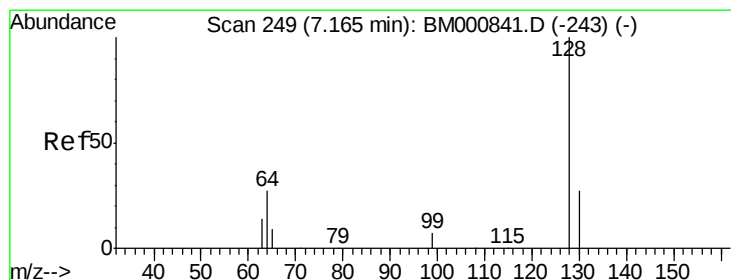
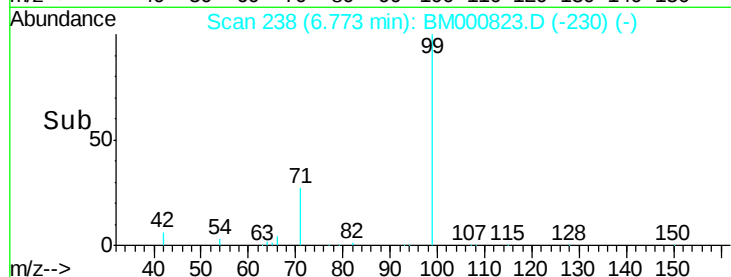
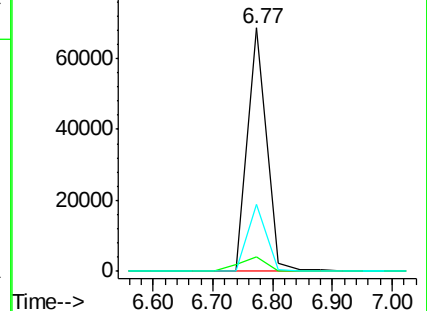
71 27.4 28.6 43.0#



Abundance Ion 99.00 (98.70 to 99.70): BM000823.D (-236) (-)

Ion 42.00 (41.70 to 42.70): BM000823.D (-236) (-)

Ion 71.00 (70.70 to 71.70): BM000823.D (-236) (-)



#6

2-Chlorophenol

Concen: 0.27 ng

RT: 7.17 min Scan# 249

Delta R.T. 0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

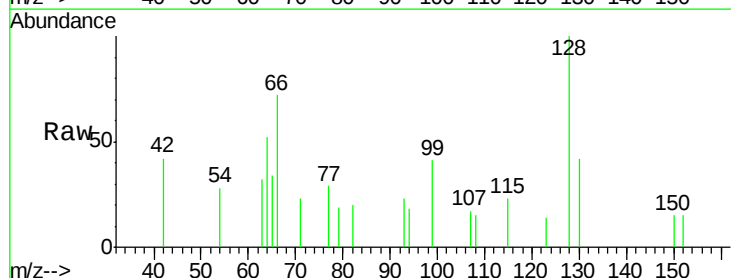
Tgt Ion: 128 Resp: 686

Ion Ratio Lower Upper

128 100

130 42.0 7.6 47.6

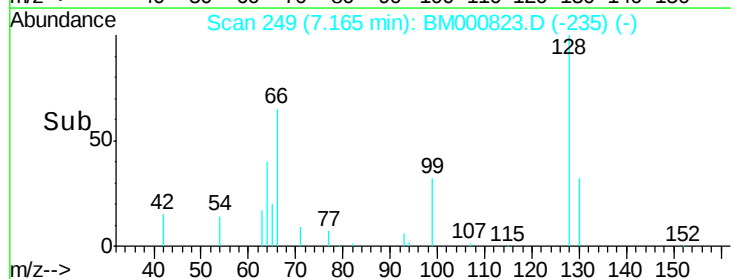
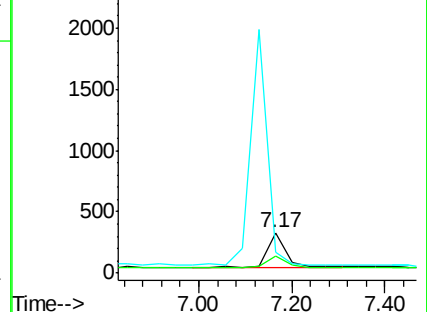
64 51.7 23.1 63.1

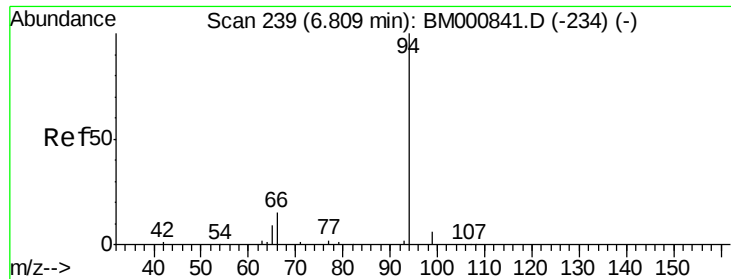


Abundance Ion 128.00 (127.70 to 128.70): BM000823.D (-243) (-)

Ion 130.00 (129.70 to 130.70): BM000823.D (-243) (-)

Ion 64.00 (63.70 to 64.70): BM000823.D (-243) (-)





#7

Phenol

Concen: 0.08 ng

RT: 6.81 min Scan# 239

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

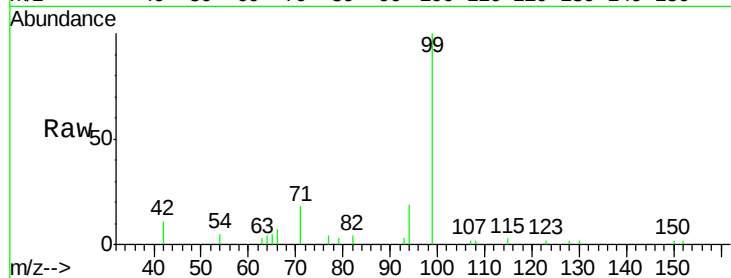
Tot Ion: 94 Resp: 911

Ion Ratio Lower Upper

94 100

65 24.1 0.0 32.0

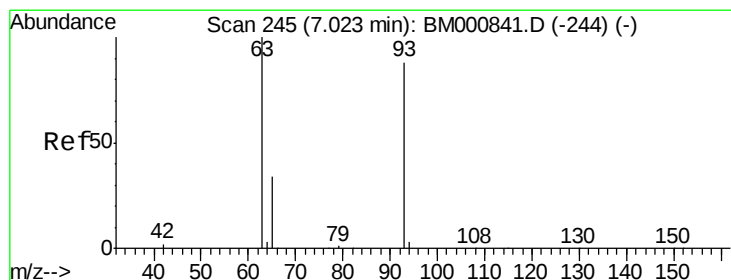
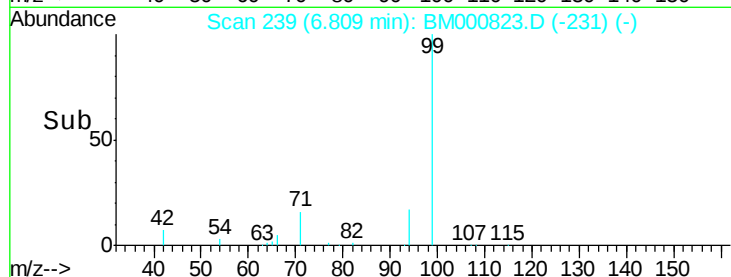
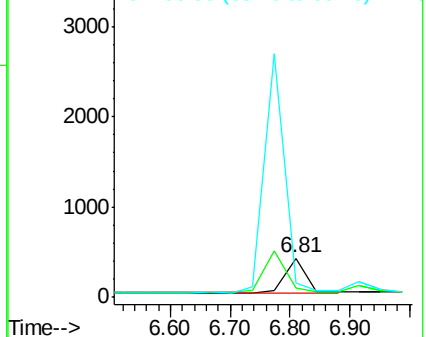
66 37.2 0.0 37.6



Abundance Ion 94.00 (93.70 to 94.70): BM000823.D (-231) (-)

Ion 65.00 (64.70 to 65.70): BM000823.D (-231) (-)

Ion 66.00 (65.70 to 66.70): BM000823.D (-231) (-)



#8

bis(2-Chloroethyl)ether

Concen: 0.27 ng m

RT: 7.02 min Scan# 245

Delta R.T. 0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

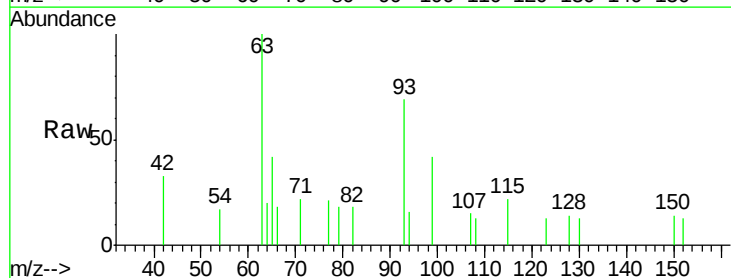
Tgt Ion: 93 Resp: 581

Ion Ratio Lower Upper

93 100

63 143.9 118.9 158.9

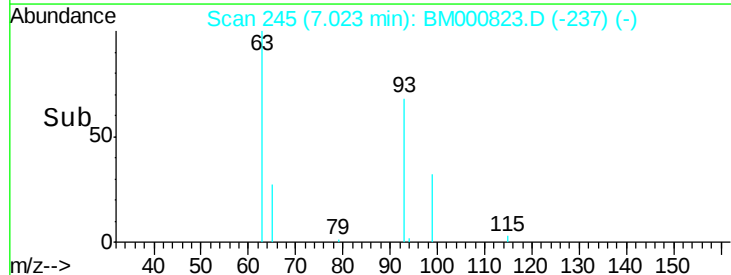
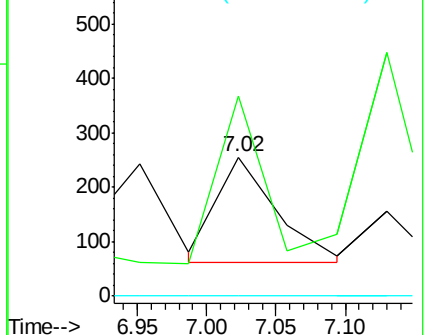
95 0.0 0.0 20.0

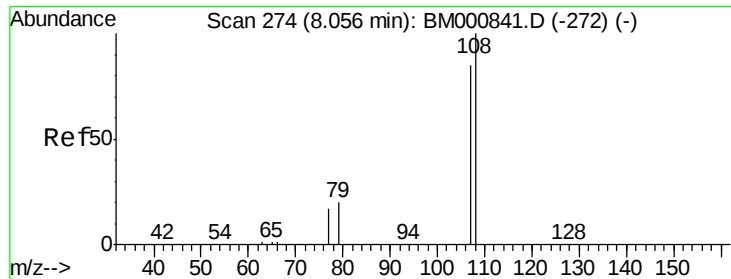


Abundance Ion 93.00 (92.70 to 93.70): BM000823.D (-237) (-)

Ion 63.00 (62.70 to 63.70): BM000823.D (-237) (-)

Ion 95.00 (94.70 to 95.70): BM000823.D (-237) (-)





#9

2-Methylphenol

Concen: 0.22 ng

RT: 8.06 min Scan# 274

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

Tot Ion:107 Resp: 534

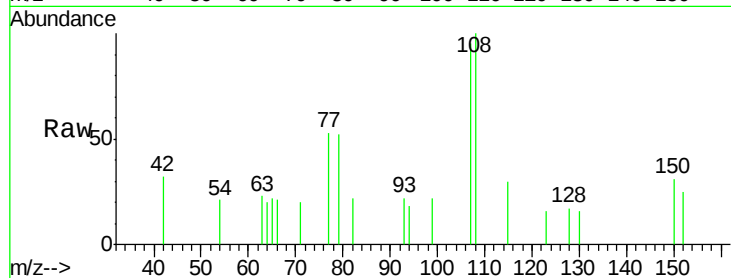
Ion Ratio Lower Upper

107 100

108 105.4 92.0 138.0

77 56.1 20.6 31.0#

79 54.3 22.9 34.3#

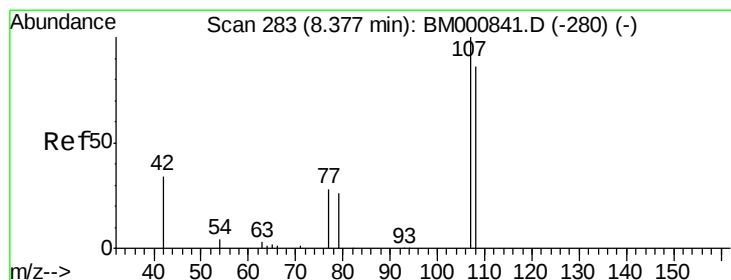
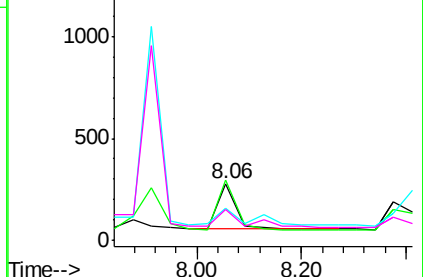
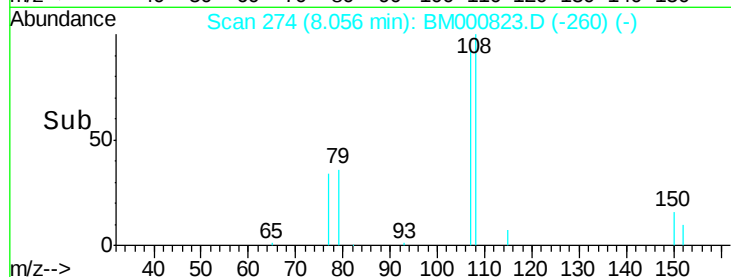


Abundance Ion 107.00 (106.70 to 107.70): E

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: 0.18 ng

RT: 8.38 min Scan# 283

Delta R.T. 0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Tgt Ion:107 Resp: 562

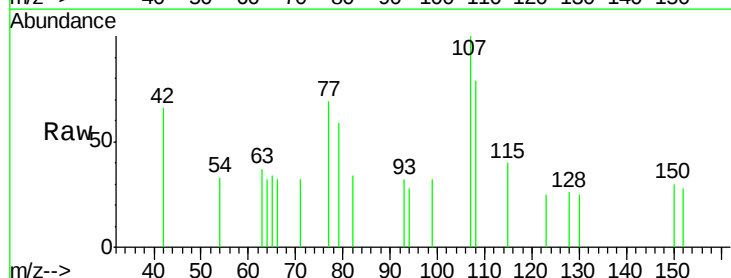
Ion Ratio Lower Upper

107 100

108 78.8 62.6 102.6

77 68.8 12.8 52.8#

79 59.3 10.3 50.3#

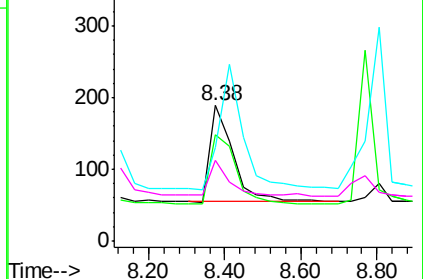
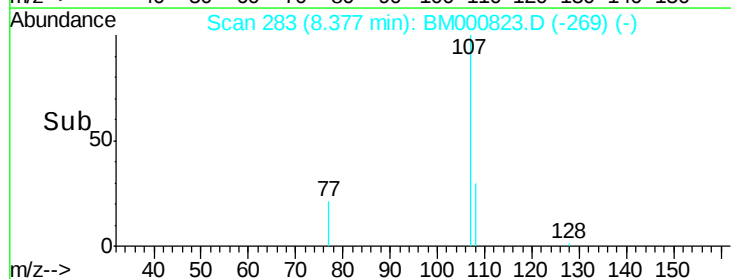


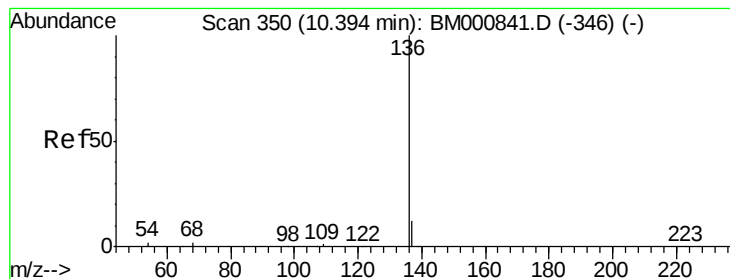
Abundance Ion 107.00 (106.70 to 107.70): E

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: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

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Tot Ion:136 Resp: 123413

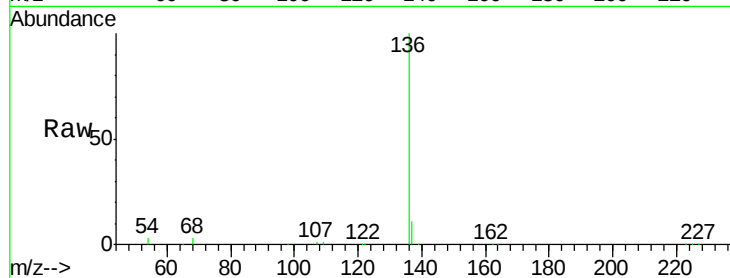
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 2.8 2.2 3.4

68 2.7 2.2 3.2

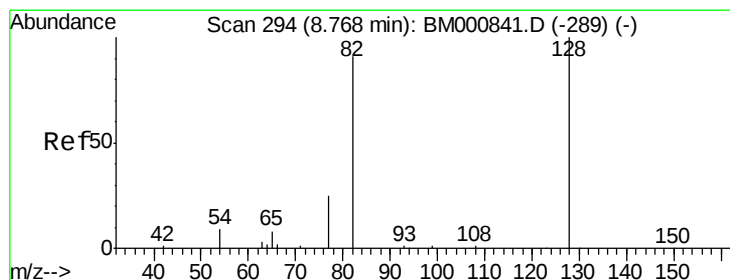
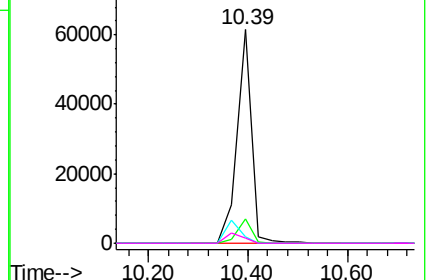
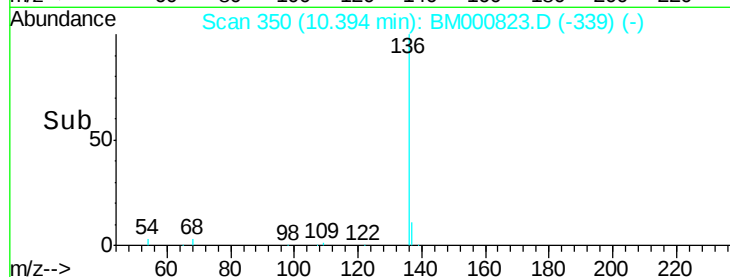


Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.33 ng

RT: 8.77 min Scan# 294

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

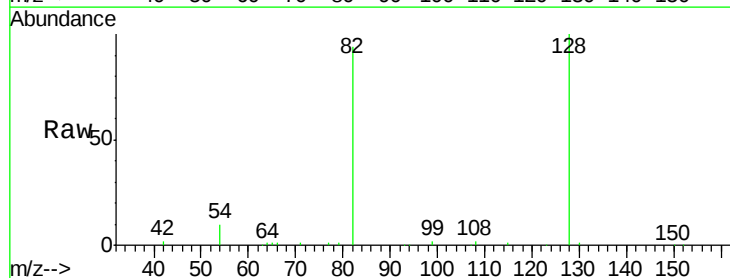
Tgt Ion: 82 Resp: 42191

Ion Ratio Lower Upper

82 100

128 105.9 72.5 108.7

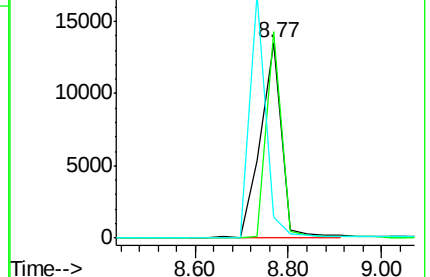
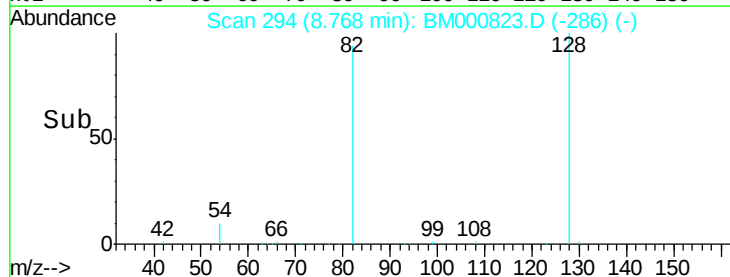
54 10.8 11.8 17.8#

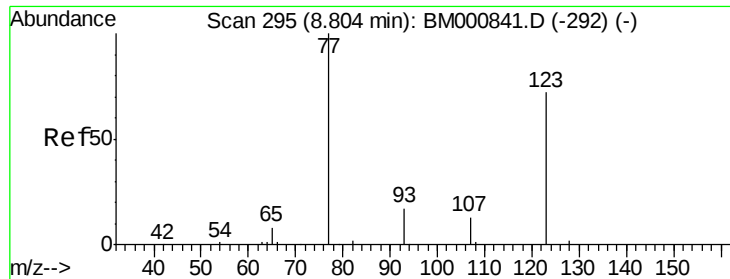


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#13

Nitrobenzene

Concen: 0.11 ng

RT: 8.80 min Scan# 295

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

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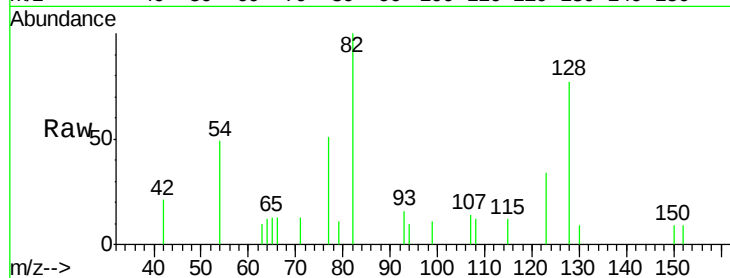
Tot Ion: 77 Resp: 712

Ion Ratio Lower Upper

77 100

123 67.4 45.8 68.6

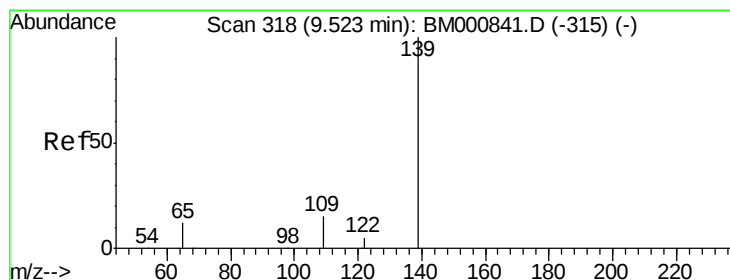
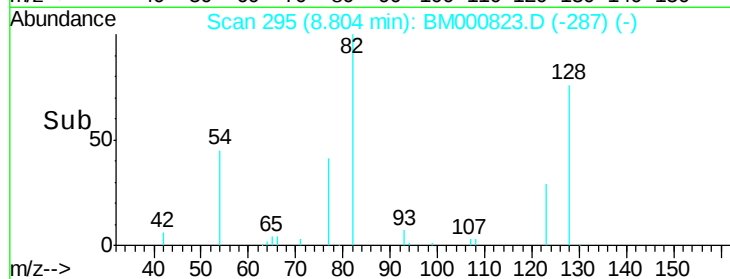
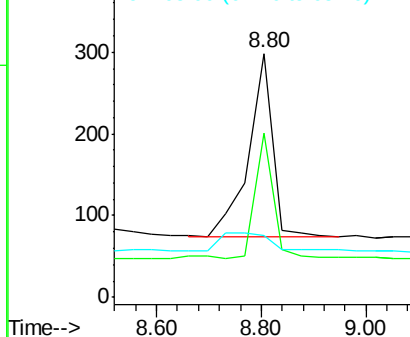
65 25.5 8.2 12.4#



Abundance Ion 77.00 (76.70 to 77.70): BM000823.D (-287) (-)

Ion 123.00 (122.70 to 123.70): BM000823.D (-287) (-)

Ion 65.00 (64.70 to 65.70): BM000823.D (-287) (-)



#14

2-Nitrophenol

Concen: 0.20 ng

RT: 9.52 min Scan# 318

Delta R.T. 0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

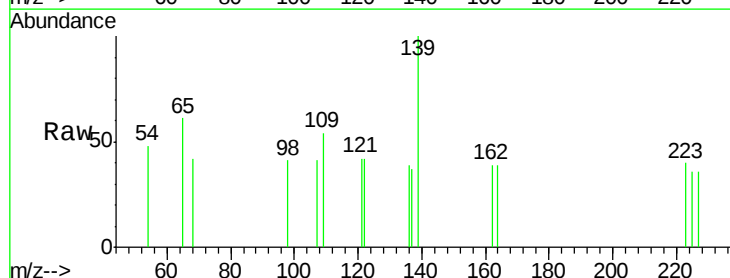
Tgt Ion: 139 Resp: 212

Ion Ratio Lower Upper

139 100

109 53.8 15.0 22.6#

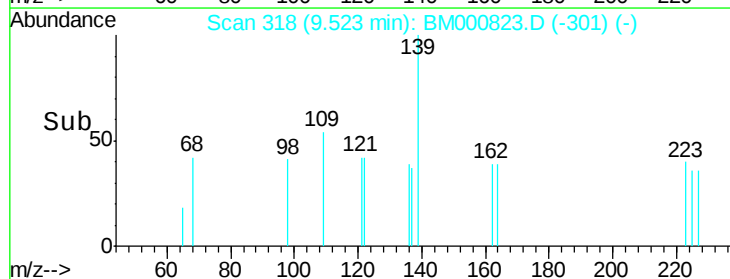
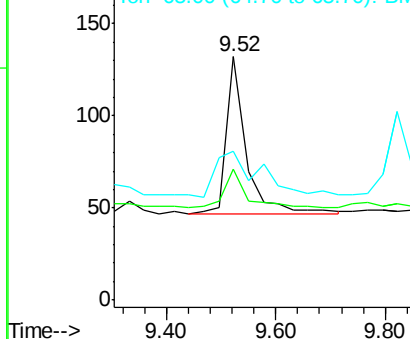
65 61.4 14.2 21.4#

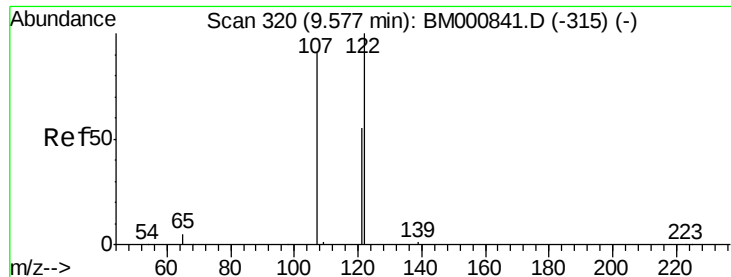


Abundance Ion 139.00 (138.70 to 139.70): BM000823.D (-301) (-)

Ion 109.00 (108.70 to 109.70): BM000823.D (-301) (-)

Ion 65.00 (64.70 to 65.70): BM000823.D (-301) (-)





#15

2,4-Dimethylphenol

Concen: 0.06 ng

RT: 9.58 min Scan# 320

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

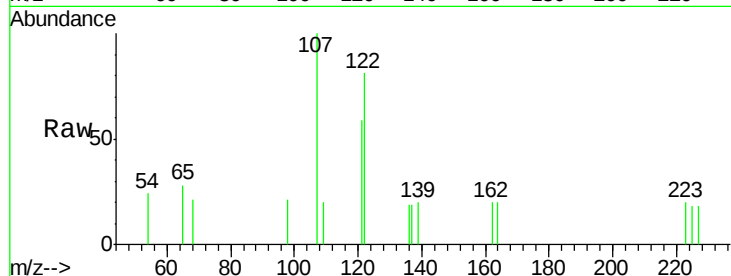
Tot Ion:122 Resp: 420

Ion Ratio Lower Upper

122 100

107 123.8 78.2 117.4#

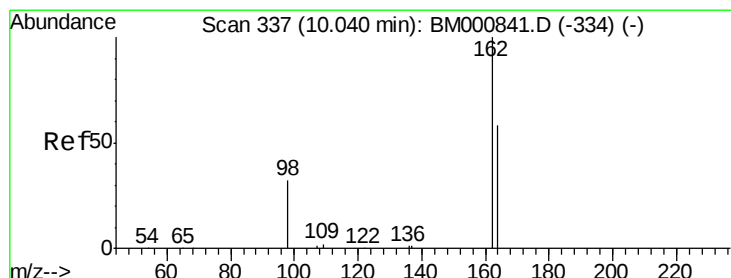
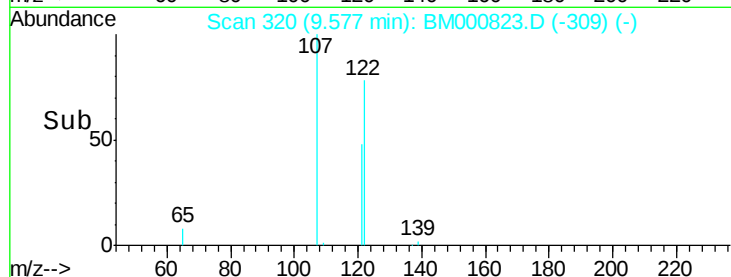
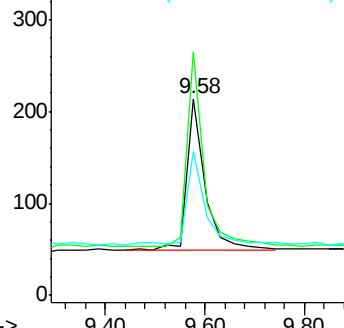
121 73.4 45.4 68.0#



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: BM000823.D

Acq: 03 Apr 2015 01:08

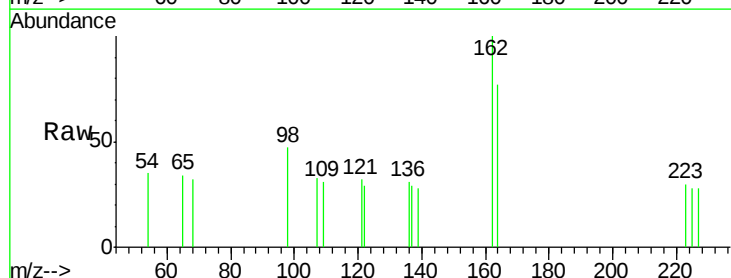
Tgt Ion:162 Resp: 395

Ion Ratio Lower Upper

162 100

164 77.1 37.1 77.1

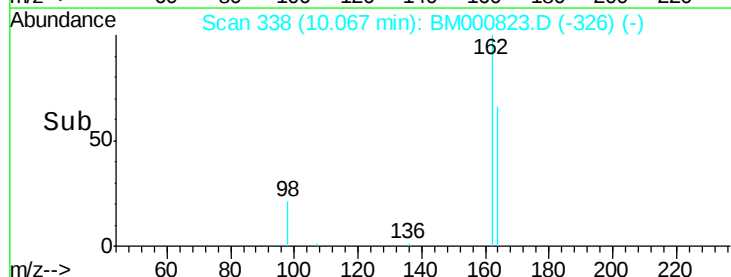
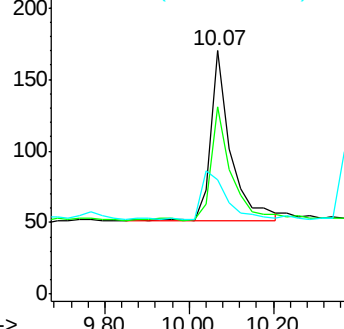
98 47.1 19.5 59.5

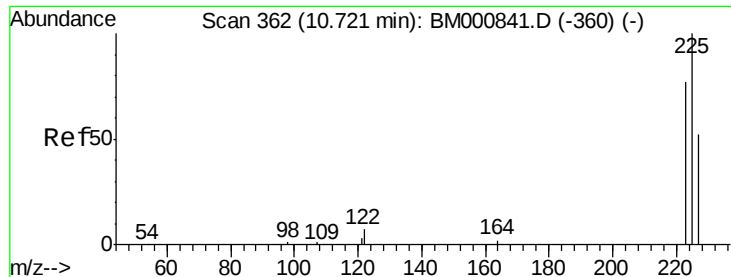


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM

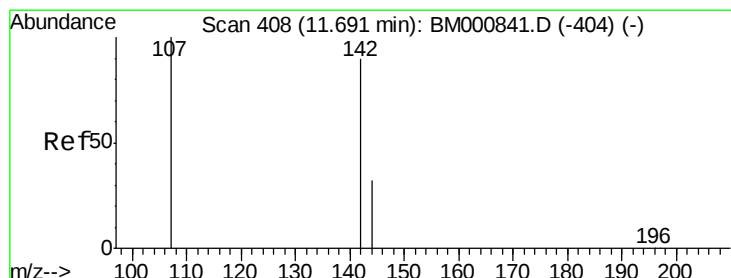
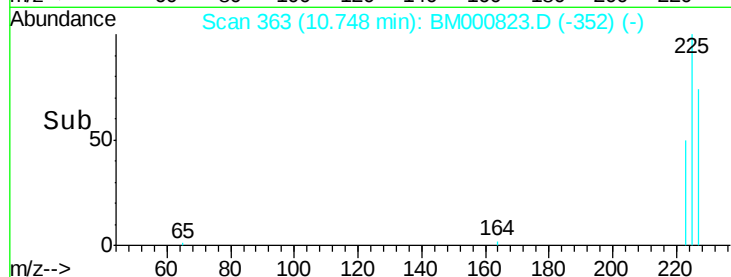
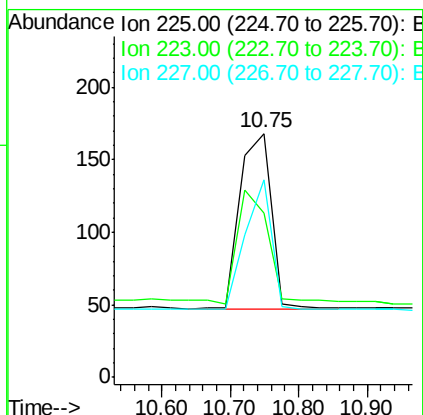
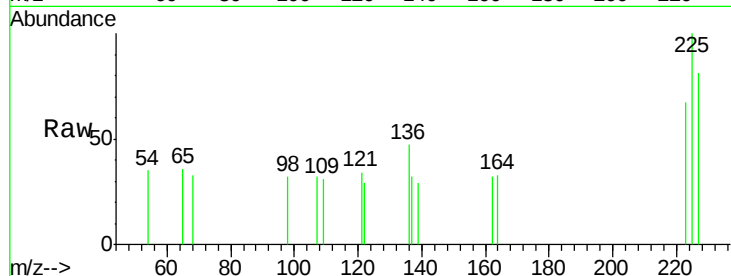




#17
Hexachlorobutadiene
Concen: 0.08 ng
RT: 10.75 min Scan# 363
Delta R.T. -0.00 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

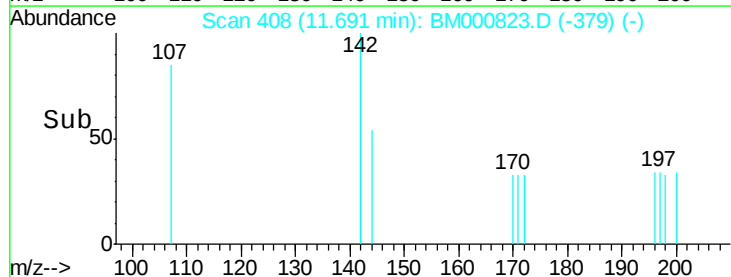
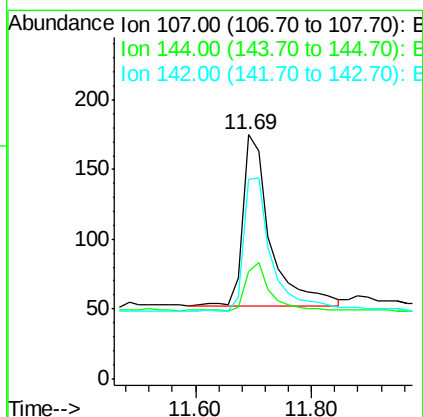
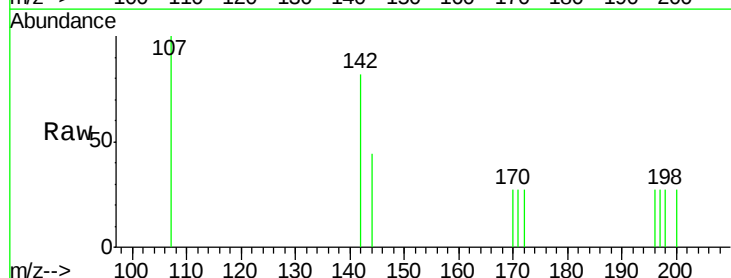
Instrument :
BNA_M
ClientSampleId :
MDL-03-S

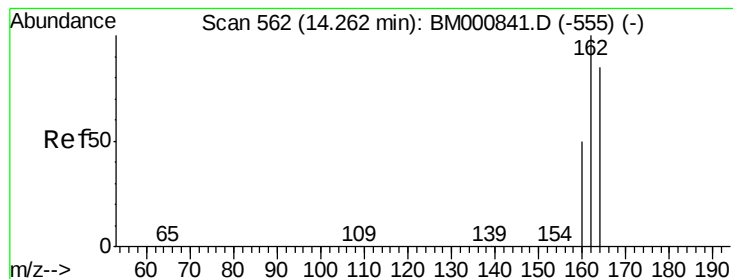
Tot Ion:225 Resp: 387
Ion Ratio Lower Upper
225 100
223 67.3 40.8 61.2#
227 81.0 62.8 94.2



#18
4-Chloro-3-methylphenol
Concen: 0.07 ng
RT: 11.69 min Scan# 408
Delta R.T. -0.00 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Tgt Ion:107 Resp: 408
Ion Ratio Lower Upper
107 100
144 44.0 25.8 38.8#
142 81.7 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: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

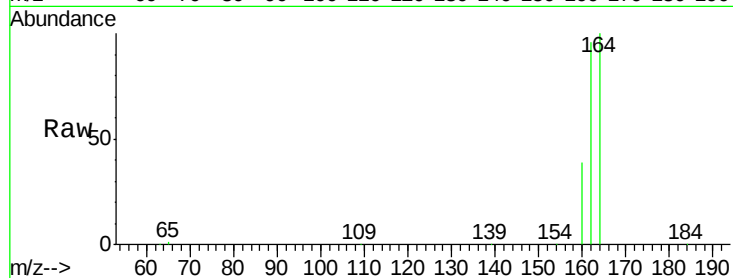
Tot Ion:164 Resp: 60998

Ion Ratio Lower Upper

164 100

162 95.9 74.2 111.2

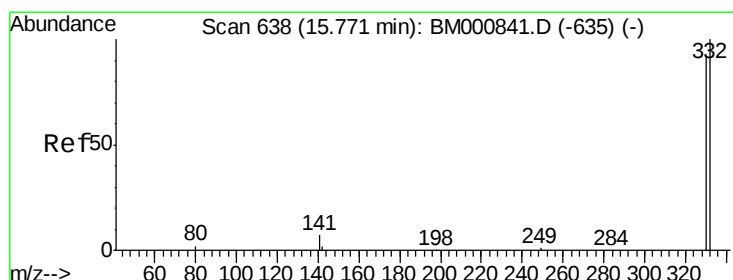
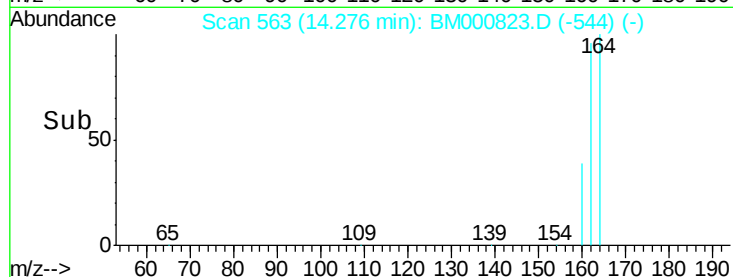
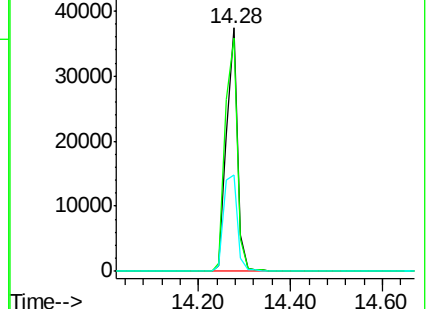
160 39.5 30.4 45.6



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



#20

2,4,6-Tribromophenol

Concen: 7.78 ng

RT: 15.75 min Scan# 637

Delta R.T. -0.02 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

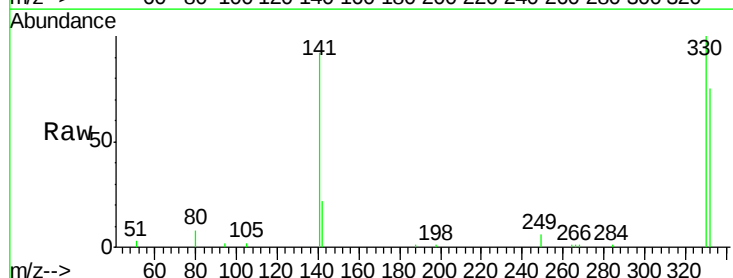
Tgt Ion:330 Resp: 20018

Ion Ratio Lower Upper

330 100

332 0.0 78.7 118.1#

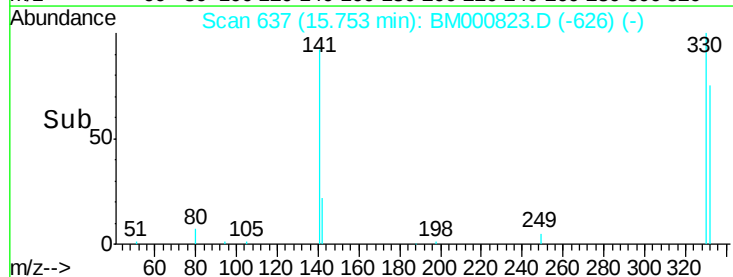
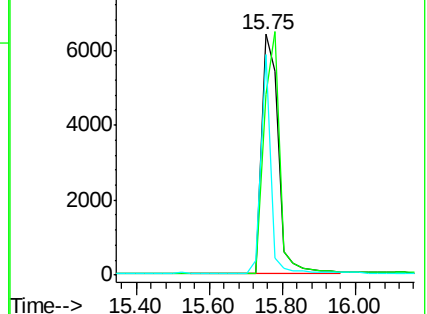
141 53.3 0.0 0.0#

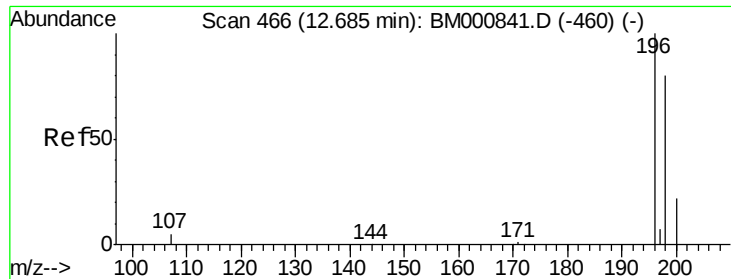


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#21

2,4,6-Trichlorophenol

Concen: 0.16 ng

RT: 12.70 min Scan# 467

Delta R.T. 0.02 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

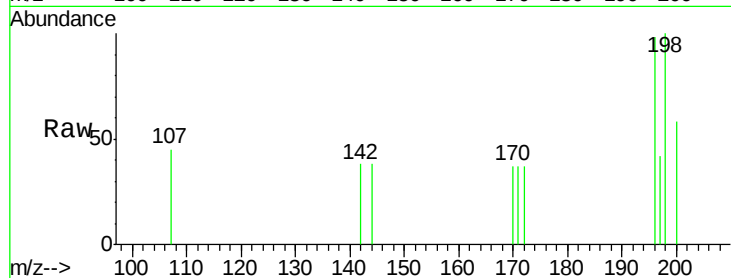
Tot Ion:196 Resp: 184

Ion Ratio Lower Upper

196 100

198 102.4 59.5 89.3#

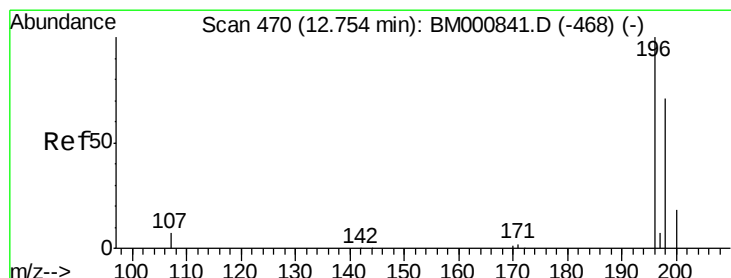
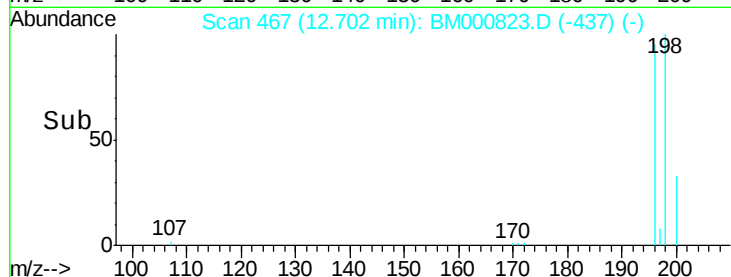
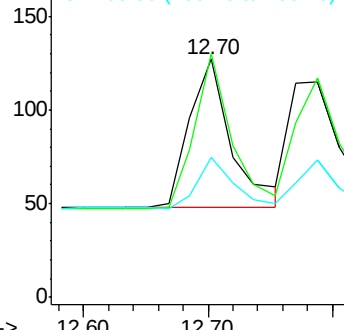
200 59.1 17.4 26.0#



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: BM000823.D

Acq: 03 Apr 2015 01:08

Tgt Ion:196 Resp: 244

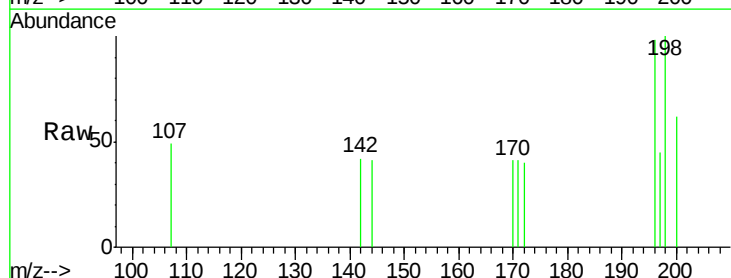
Ion Ratio Lower Upper

196 100

198 101.7 57.9 86.9#

97 0.0 0.0 0.0

132 0.0 0.0 0.0

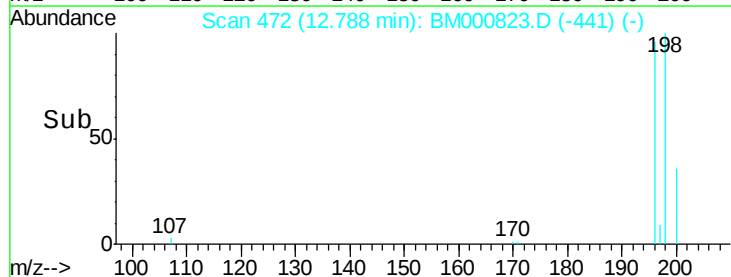
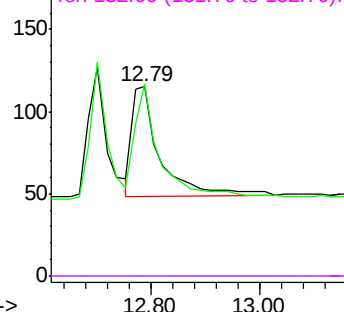


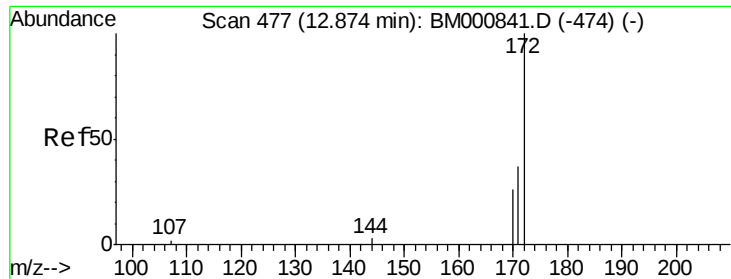
Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BM

Ion 132.00 (131.70 to 132.70): E





#23

2-Fluorobiphenyl

Concen: 9.52 ng

RT: 12.87 min Scan# 477

Delta R.T. -0.00 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

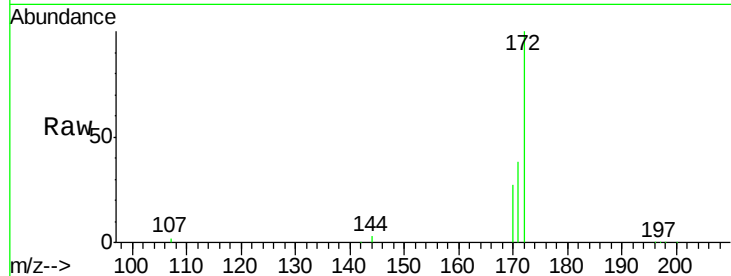
Tot Ion:172 Resp: 178848

Ion Ratio Lower Upper

172 100

171 37.9 30.6 46.0

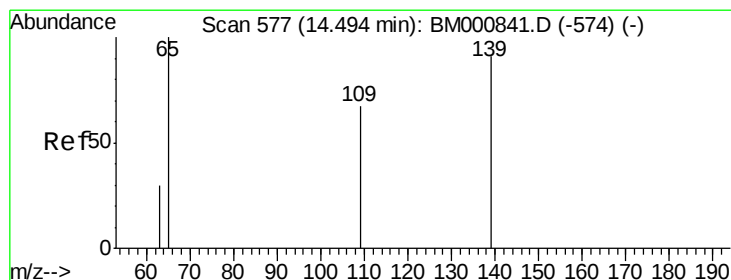
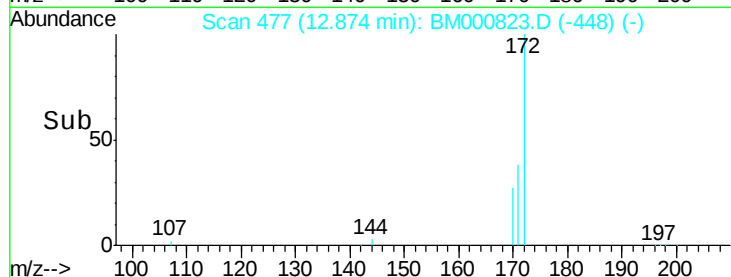
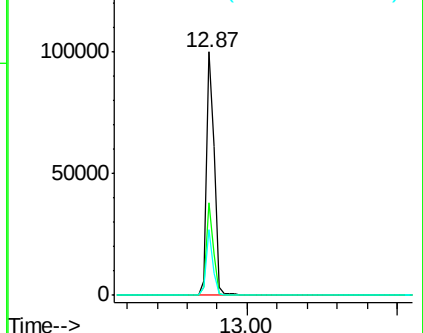
170 27.0 22.2 33.2



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 m

RT: 14.55 min Scan# 581

Delta R.T. 0.06 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

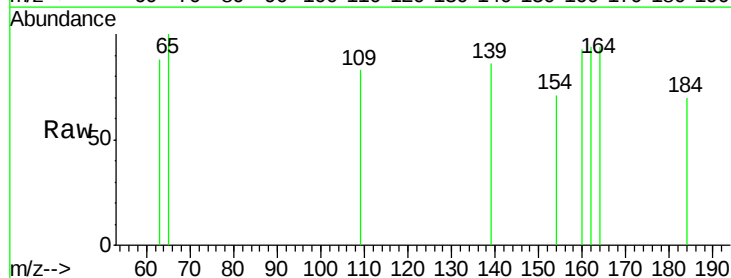
Tgt Ion:139 Resp: 52

Ion Ratio Lower Upper

139 100

109 96.6 58.2 98.2

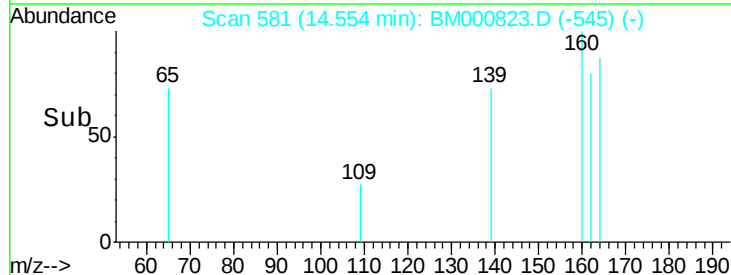
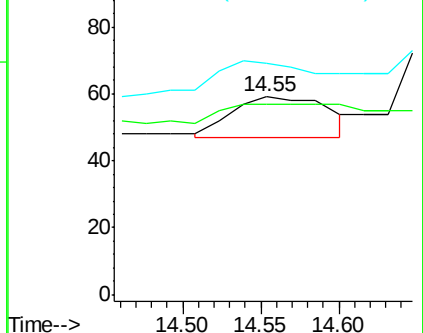
65 116.9 90.4 130.4

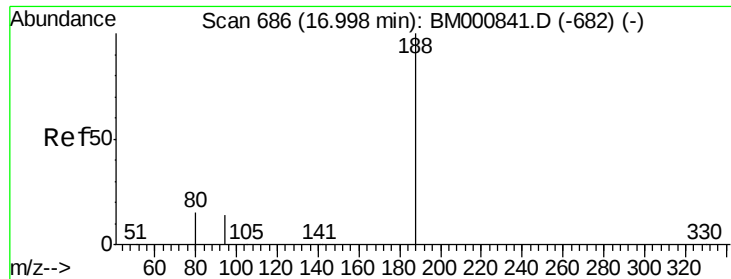


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BM

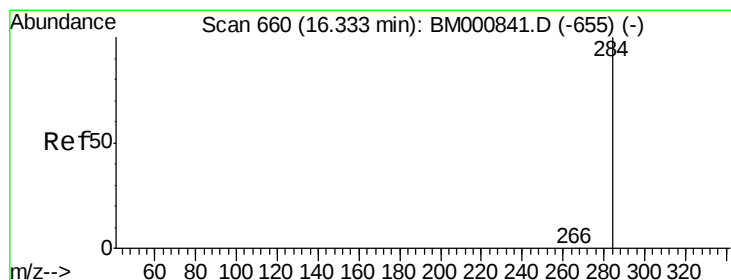
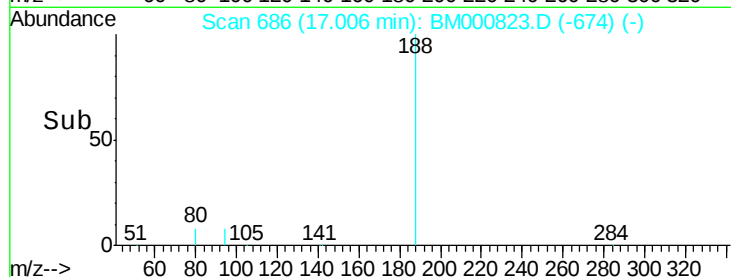
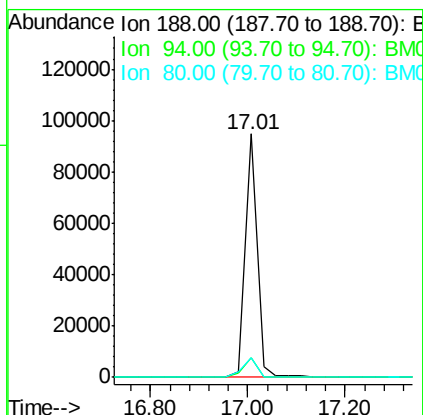
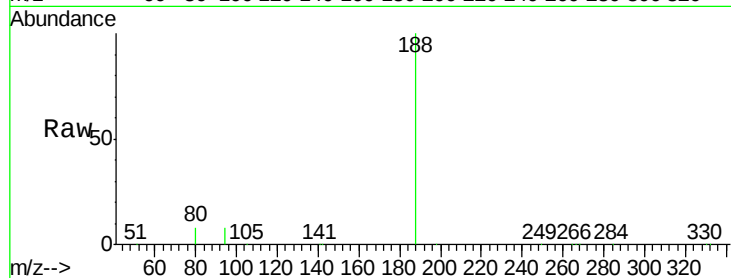




#26
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.01 min Scan# 686
Delta R.T. 0.01 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

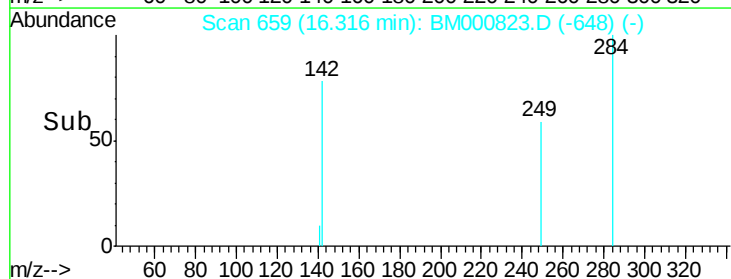
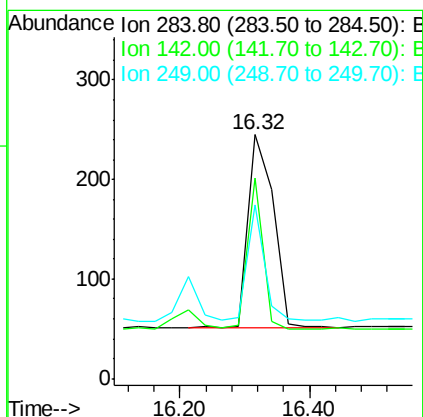
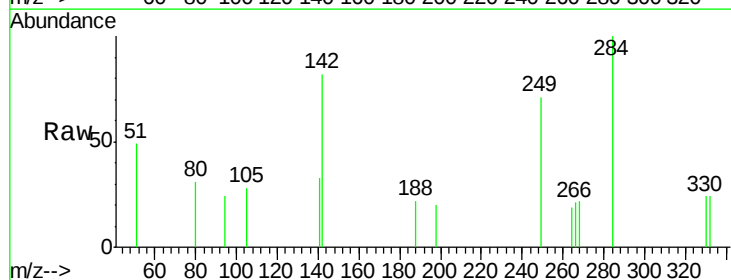
Instrument :
BNA_M
ClientSampleId :
MDL-03-S

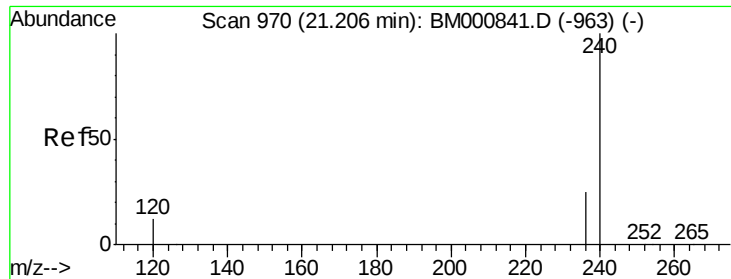
Tot Ion:188 Resp: 158818
Ion Ratio Lower Upper
188 100
94 8.3 13.0 19.6#
80 8.0 14.7 22.1#



#28
Hexachlorobenzene
Concen: 0.12 ng
RT: 16.32 min Scan# 659
Delta R.T. -0.02 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Tgt Ion:284 Resp: 523
Ion Ratio Lower Upper
284 100
142 82.4 6.5 9.7#
249 71.0 12.6 18.8#

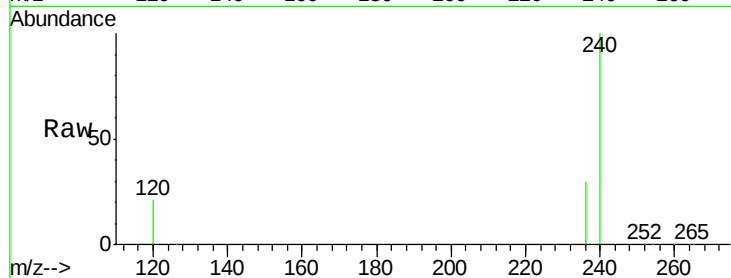




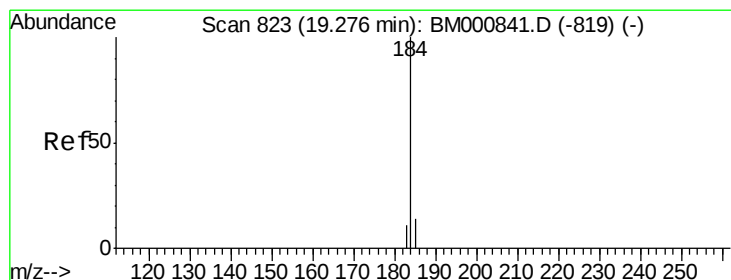
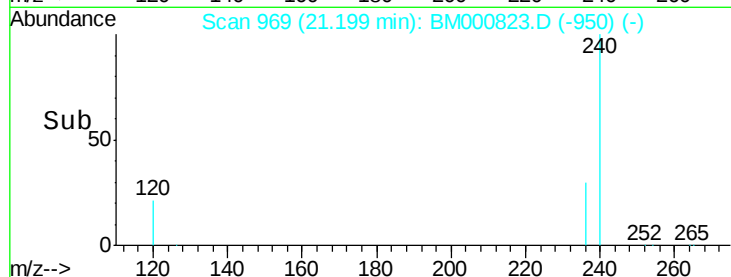
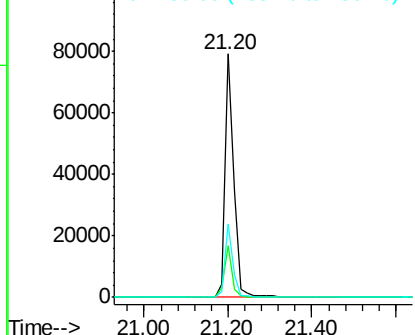
#30
Chrysene-d12
Concen: 5.00 ng
RT: 21.20 min Scan# 969
Delta R.T. -0.01 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Instrument :
BNA_M
ClientSampled :
MDL-03-S

Tot Ion:240 Resp: 115700
Ion Ratio Lower Upper
240 100
120 21.0 11.3 16.9#
236 30.3 21.1 31.7

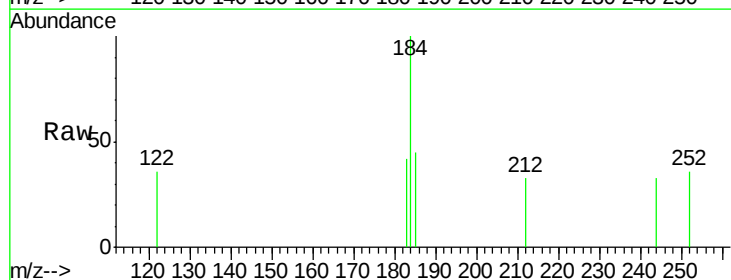


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

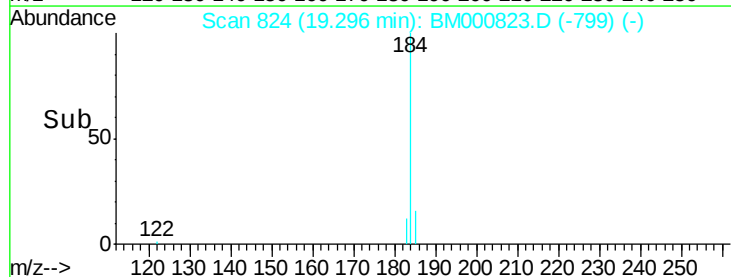
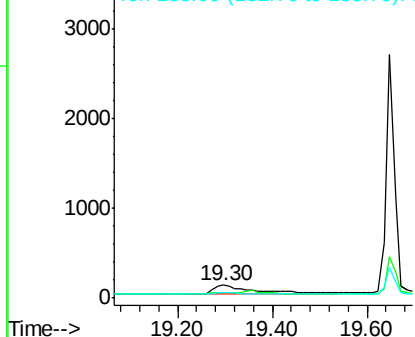


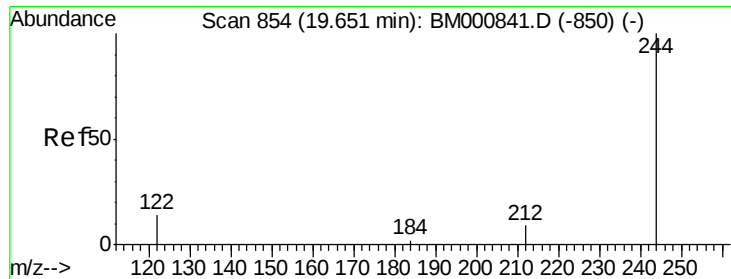
#31
Benzidine
Concen: 0.25 ng
RT: 19.30 min Scan# 824
Delta R.T. -0.00 min
Lab File: BM000823.D
Acq: 03 Apr 2015 01:08

Tgt Ion:184 Resp: 596
Ion Ratio Lower Upper
184 100
185 45.1 39.1 58.7
183 41.7 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: 10.61 ng

RT: 19.66 min Scan# 854

Delta R.T. 0.01 min

Lab File: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

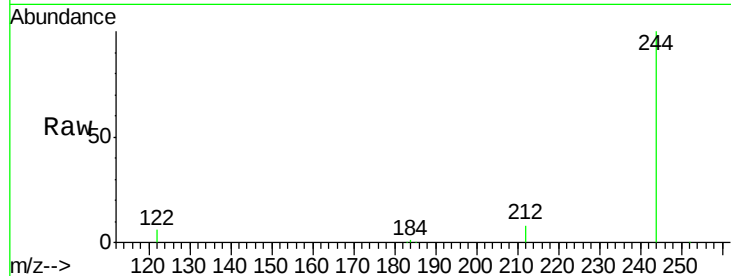
Tot Ion:244 Resp: 147708

Ion Ratio Lower Upper

244 100

212 7.8 8.0 12.0#

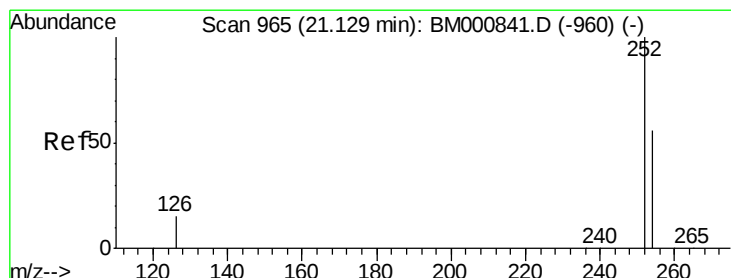
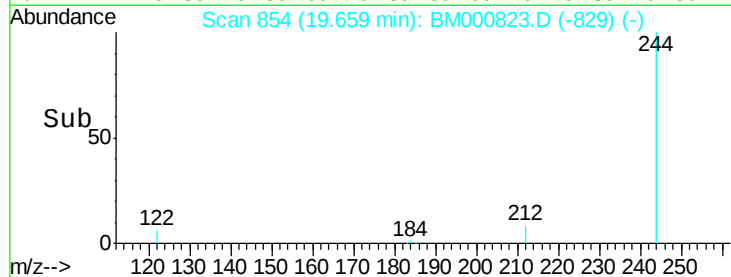
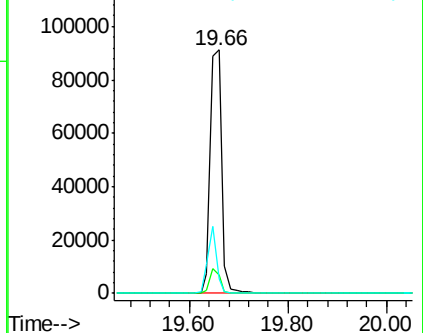
122 5.7 14.7 22.1#



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: BM000823.D

Acq: 03 Apr 2015 01:08

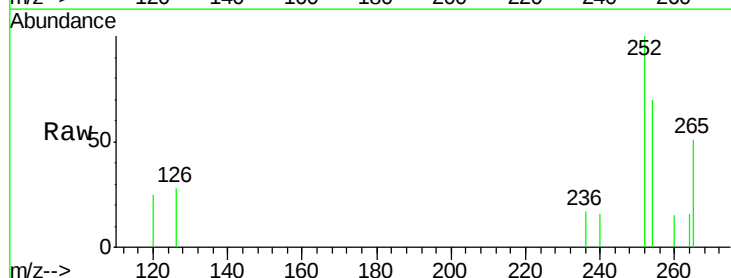
Tgt Ion:252 Resp: 602

Ion Ratio Lower Upper

252 100

254 69.8 44.5 66.7#

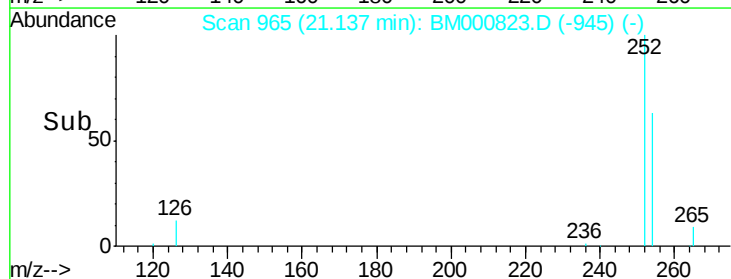
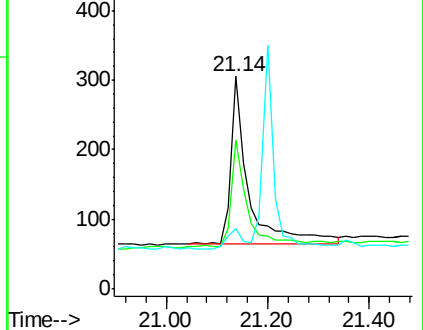
126 28.2 13.6 20.4#

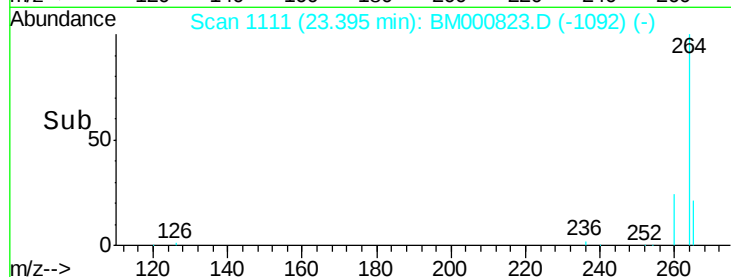
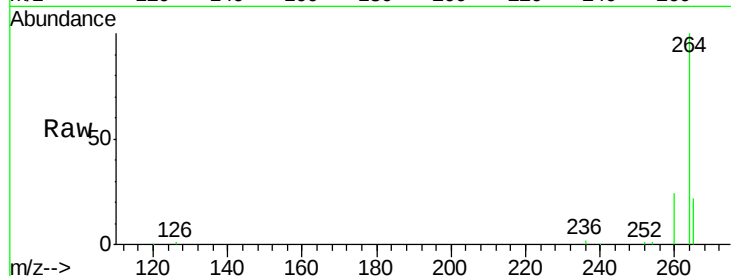
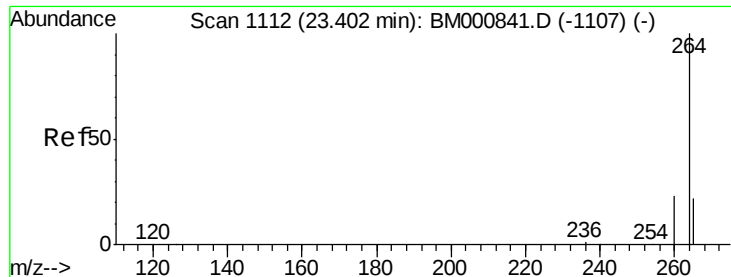


Abundance Ion 252.00 (251.70 to 252.70): E

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: BM000823.D

Acq: 03 Apr 2015 01:08

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

Tot Ion: 264 Resp: 107751

Ion Ratio Lower Upper

264 100

260 24.3 19.1 28.7

265 21.7 17.5 26.3

