

Data Path : Z:\HPCHEM1\BNA M\Data\BM030116\
 Data File : BM004522.D
 Acq On : 02 Mar 2016 16:21
 Operator : SJ/UM
 Sample : H1509-06DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MW-3DL

Quant Time: Mar 02 17:59:52 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM030116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 02 14:46:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	17393	5.00	ng	0.00
7) Naphthalene-d8	10.39	136	68991	5.00	ng	0.00
13) Acenaphthene-d10	14.26	164	37018	5.00	ng	0.00
19) Phenanthrene-d10	17.01	188	84484	5.00	ng	0.00
26) Chrysene-d12	21.23	240	65430	5.00	ng	0.00
35) Perylene-d12	23.45	264	61038	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.24	112	1202	0.33	ng	0.00
5) Phenol-d6	6.87	99	982	0.33	ng	0.03
8) Nitrobenzene-d5	8.81	82	1720	0.60	ng	0.01
14) 2,4,6-Tribromophenol	15.77	330	2236	1.82	ng	-0.02
15) 2-Fluorobiphenyl	12.88	172	8544	0.75	ng	0.00
29) Terphenyl-d14	19.67	244	8884	0.82	ng	0.00

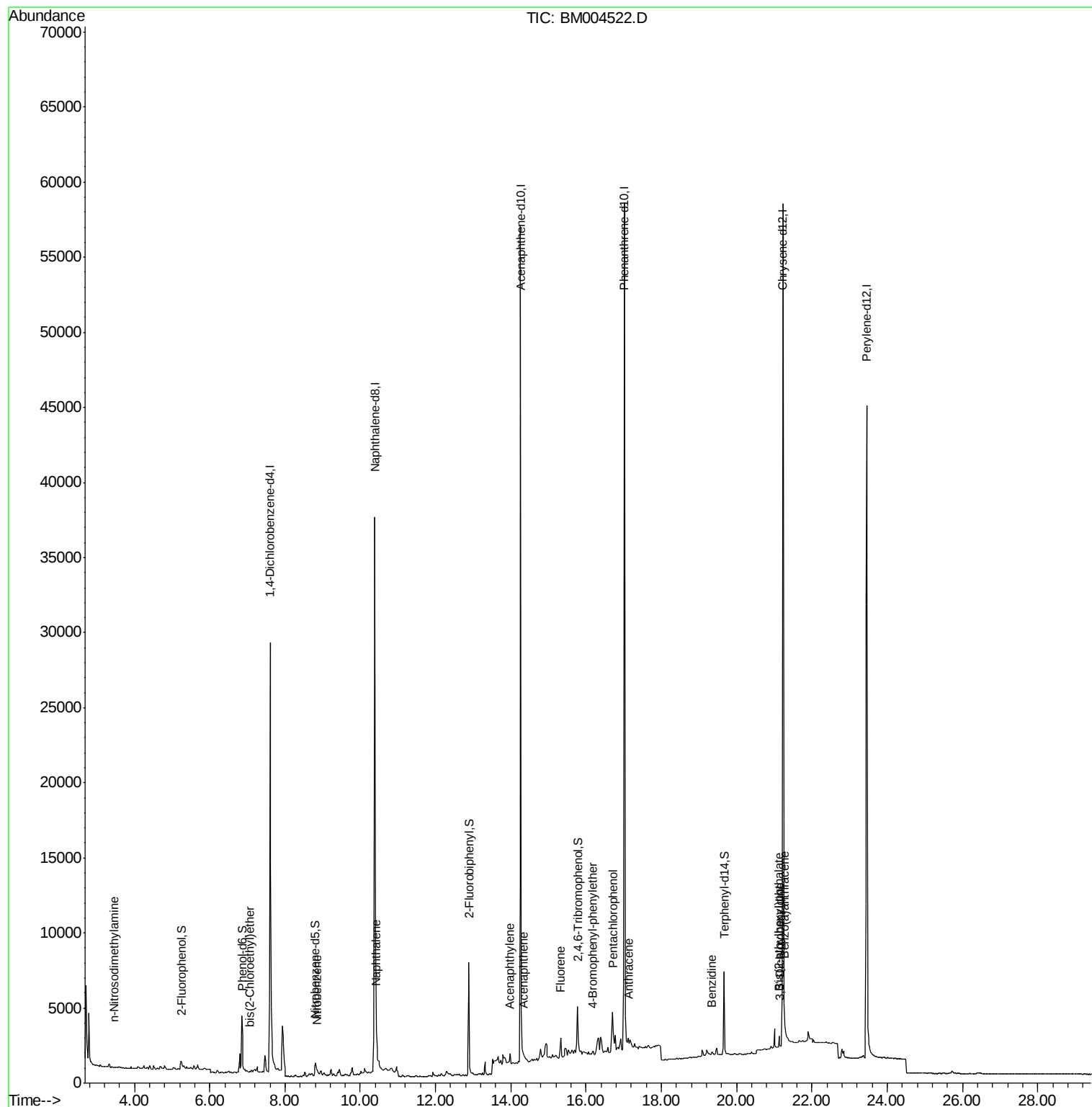
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.46	42	32	0.03	ng	# 1
6) bis(2-Chloroethyl)ether	7.07	93	14	0.09	ng	# 69
9) Nitrobenzene	8.86	77	69	0.20	ng	# 68
10) Naphthalene	10.42	128	975	0.06	ng	# 16
16) Acenaphthylene	13.97	152	103	0.11	ng	# 1
17) Acenaphthene	14.33	154	744	0.04	ng	# 45
18) Fluorene	15.33	166	1072	0.06	ng	# 93
20) 4-Bromophenyl-phenylether	16.17	248	17	0.14	ng	# 1
21) Hexachlorobenzene	16.35	284	20	Below Cal	#	100
22) Pentachlorophenol	16.71	266	2998	4.53	ng	# 87
23) Phenanthrene	17.06	178	334	Below Cal	#	60
24) Anthracene	17.14	178	577	0.21	ng	# 62
25) Fluoranthene	19.09	202	702	Below Cal	#	92
27) Benzidine	19.35	184	57	0.36	ng	# 1
28) Pyrene	19.47	202	613	Below Cal	#	92
30) Benzo(a)anthracene	21.27	228	2412	0.15	ng	# 79
31) 3,3'-Dichlorobenzidine	21.14	252	226	0.04	ng	# 15
32) Chrysene	21.27	228	2522	Below Cal	#	77
33) Bis(2-ethylhexyl)phthalate	21.12	149	941	0.18	ng	# 98
36) Benzo(b)fluoranthene	22.80	252	854	Below Cal	#	1
37) Benzo(k)fluoranthene	22.80	252	854	Below Cal	#	1

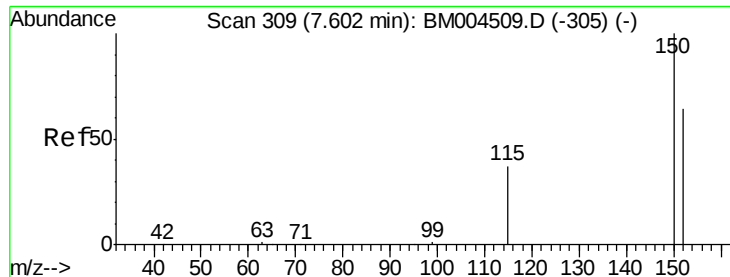
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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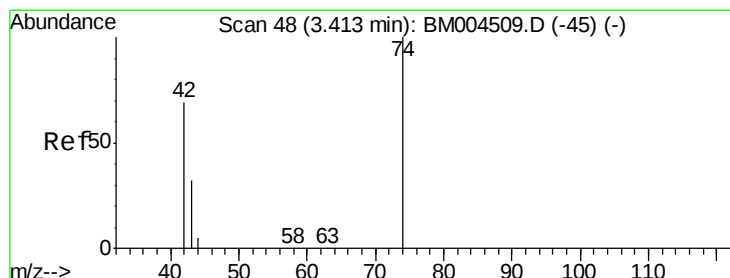
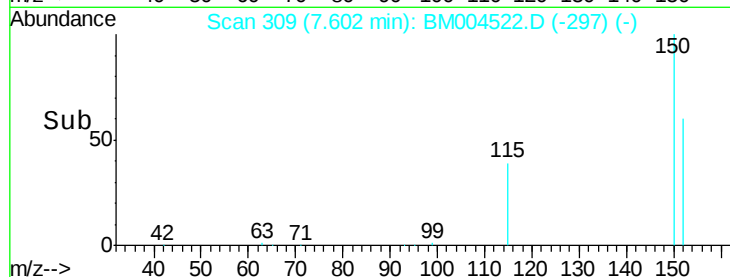
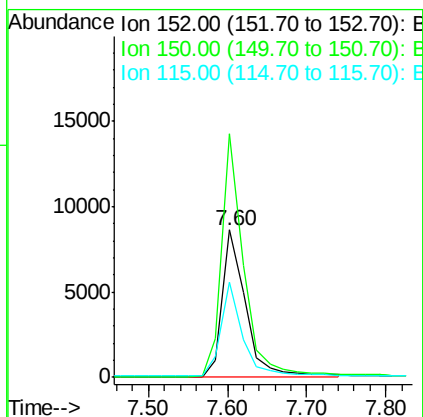
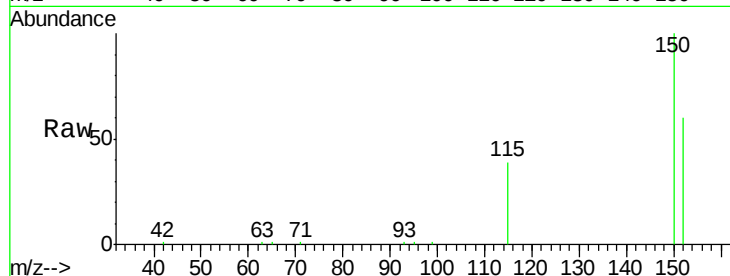


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.60 min Scan# 309
Delta R.T. -0.00 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

Instrument :
BNA_M
ClientSampled :
MW-3DL

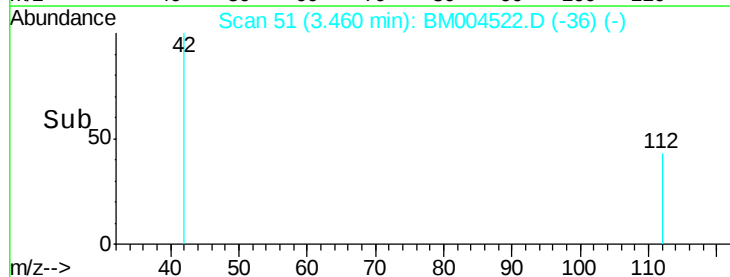
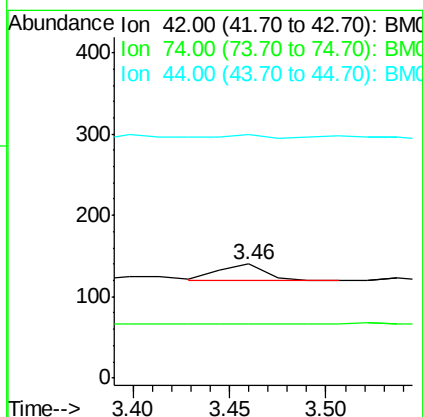
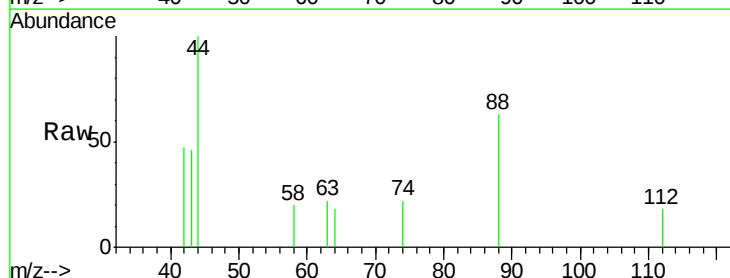
Tot Ion:152 Resp: 17393
Ion Ratio Lower Upper
152 100
150 165.3 134.2 201.2
115 64.8 52.2 78.4

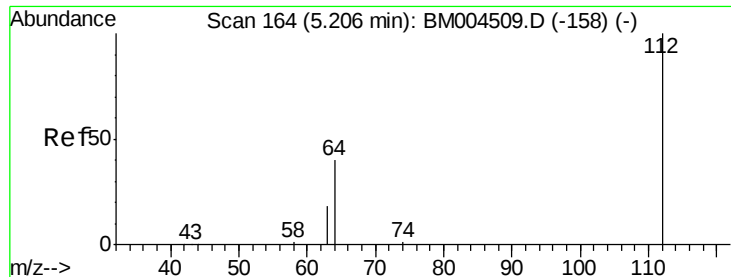


#3

n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.46 min Scan# 51
Delta R.T. 0.03 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

Tgt Ion: 42 Resp: 32
Ion Ratio Lower Upper
42 100
74 0.0 115.5 173.3#
44 0.0 6.2 9.4#





#4

2-Fluorophenol

Concen: 0.33 ng

RT: 5.24 min Scan# 166

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampled :

MW-3DL

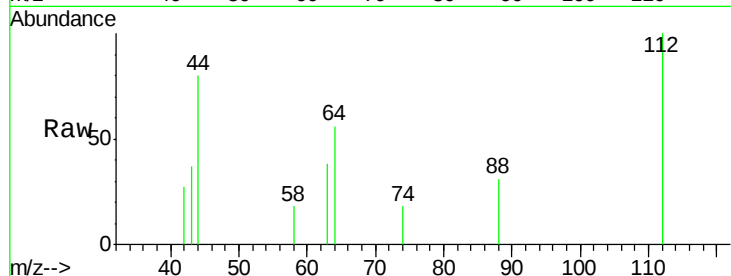
Tot Ion:112 Resp: 1202

Ion Ratio Lower Upper

112 100

64 49.6 37.0 55.6

63 26.6 19.0 28.4



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B

5.24

400

300

200

100

0

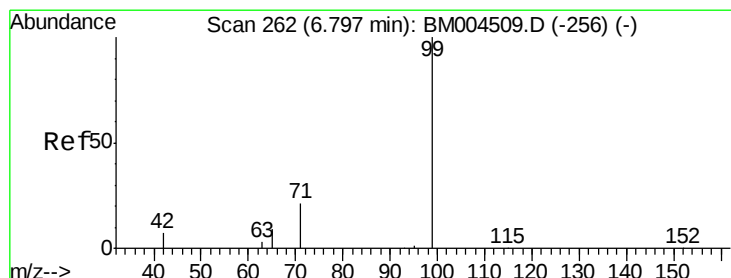
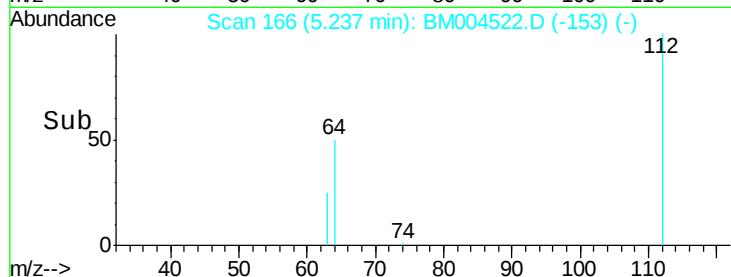
5.10

5.20

5.30

5.40

Time-->



#5

Phenol-d6

Concen: 0.33 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.03 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

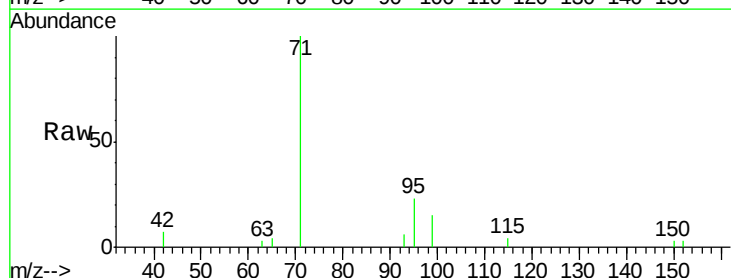
Tgt Ion: 99 Resp: 982

Ion Ratio Lower Upper

99 100

42 21.1 12.2 18.4#

71 748.1 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): B

Ion 42.00 (41.70 to 42.70): B

Ion 71.00 (70.70 to 71.70): B

6.87

4000

3000

2000

1000

0

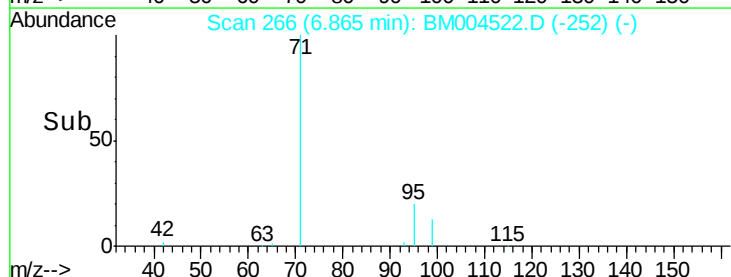
6.70

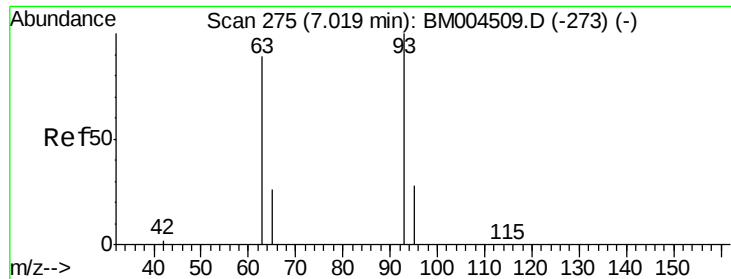
6.80

6.90

7.00

Time-->





#6

bis(2-Chloroethyl)ether

Concen: 0.09 ng

RT: 7.07 min Scan# 278

Delta R.T. 0.03 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

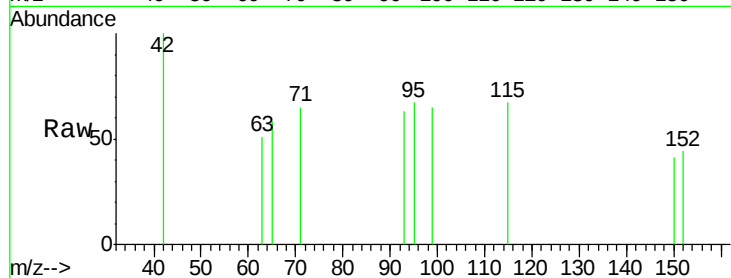
Tot Ion: 93 Resp: 14

Ion Ratio Lower Upper

93 100

63 50.0 51.1 76.7#

95 0.0 25.0 37.6#

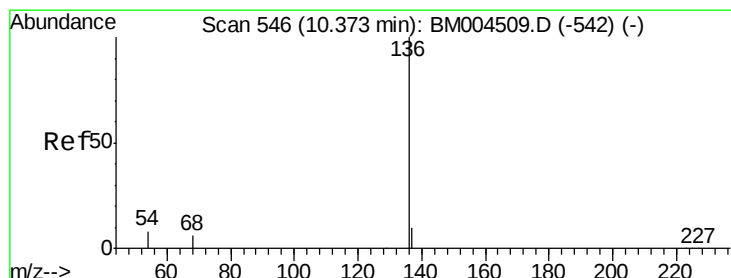
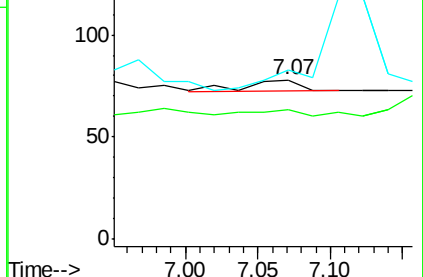
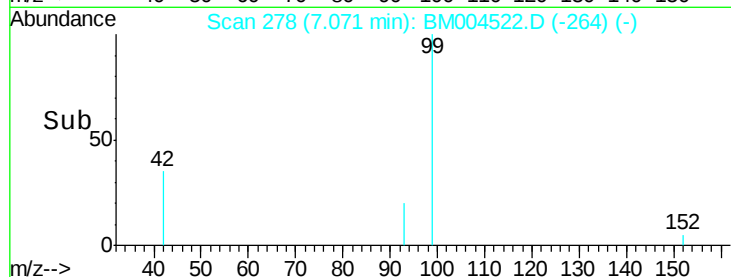


Abundance Ion 93.00 (92.70 to 93.70): BM004509.D (-273) (-)

Ion 63.00 (62.70 to 63.70): BM004509.D (-273) (-)

Ion 95.00 (94.70 to 95.70): BM004509.D (-273) (-)

Time-->



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 547

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Tgt Ion: 136 Resp: 68991

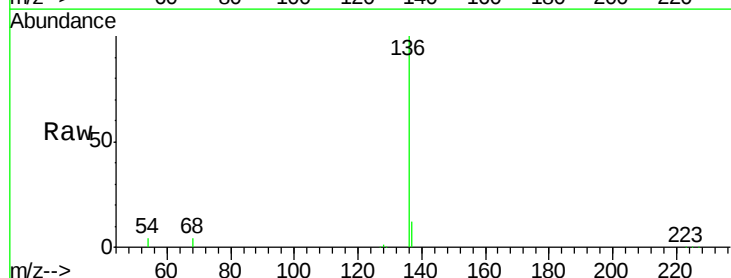
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.6

54 4.1 3.3 4.9

68 3.7 2.9 4.3



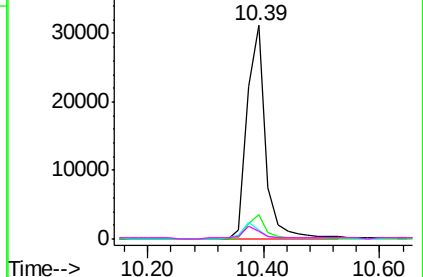
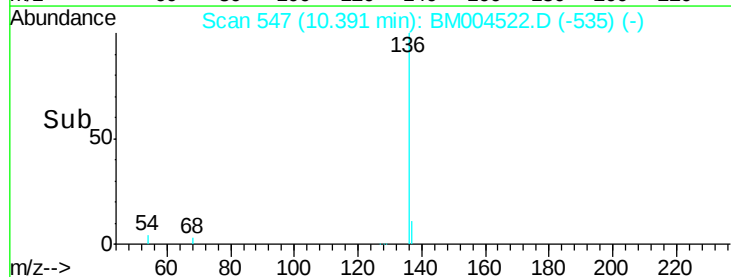
Abundance Ion 136.00 (135.70 to 136.70): BM004509.D (-542) (-)

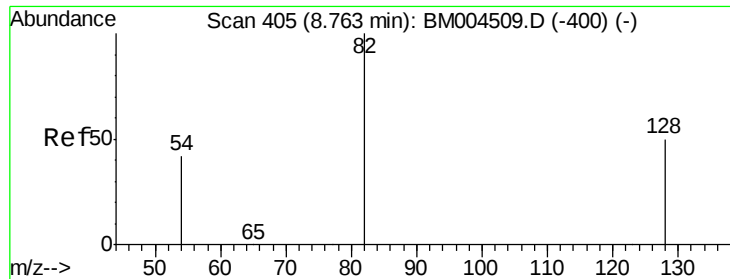
Ion 137.00 (136.70 to 137.70): BM004509.D (-542) (-)

Ion 54.00 (53.70 to 54.70): BM004509.D (-542) (-)

Ion 68.00 (67.70 to 68.70): BM004509.D (-542) (-)

Time-->





#8

Nitrobenzene-d5

Concen: 0.60 ng

RT: 8.81 min Scan# 409

Delta R.T. 0.01 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampled :

MW-3DL

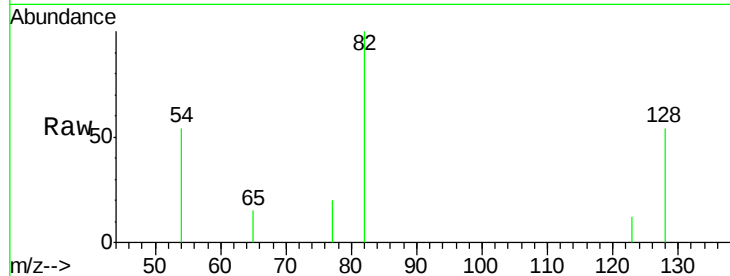
Tot Ion: 82 Resp: 1720

Ion Ratio Lower Upper

82 100

128 53.8 41.9 62.9

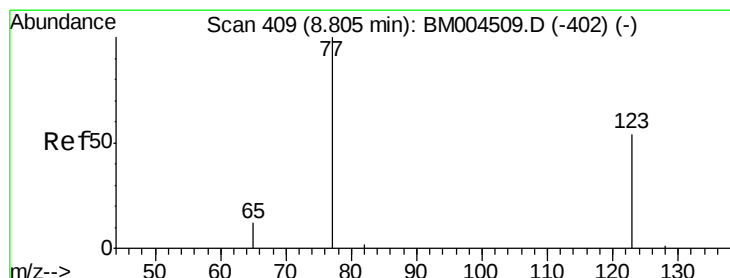
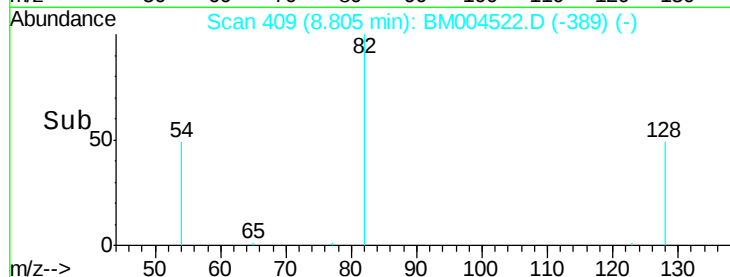
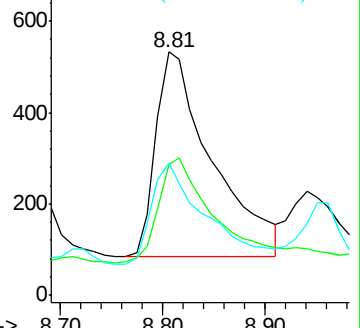
54 54.4 34.2 51.2#



Abundance Ion 82.00 (81.70 to 82.70): BM004509.D (-400) (-)

Ion 128.00 (127.70 to 128.70): BM004509.D (-400) (-)

Ion 54.00 (53.70 to 54.70): BM004509.D (-400) (-)



#9

Nitrobenzene

Concen: 0.20 ng

RT: 8.86 min Scan# 414

Delta R.T. 0.02 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

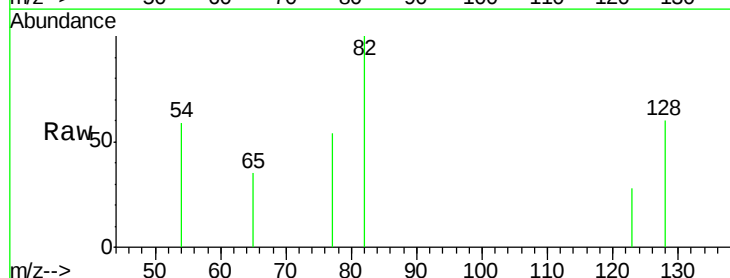
Tgt Ion: 77 Resp: 69

Ion Ratio Lower Upper

77 100

123 60.9 42.5 63.7

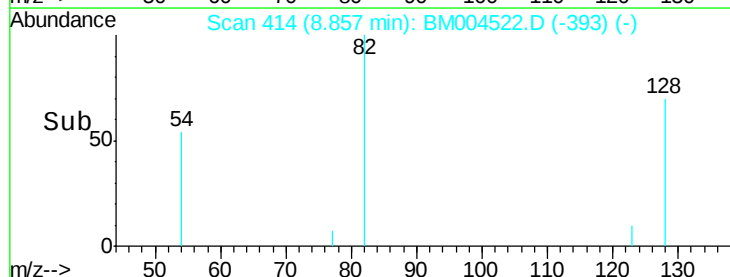
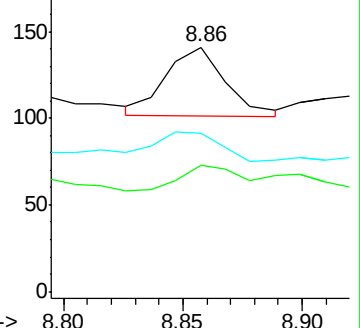
65 60.9 10.0 15.0#

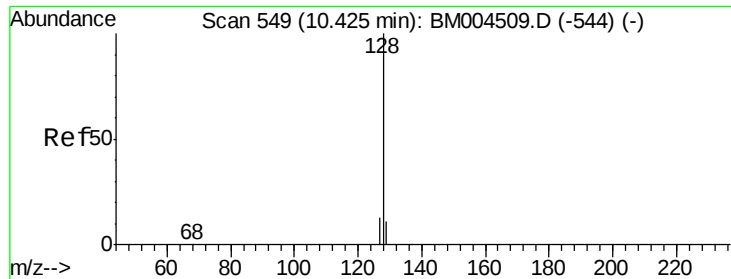


Abundance Ion 77.00 (76.70 to 77.70): BM004509.D (-402) (-)

Ion 123.00 (122.70 to 123.70): BM004509.D (-402) (-)

Ion 65.00 (64.70 to 65.70): BM004509.D (-402) (-)

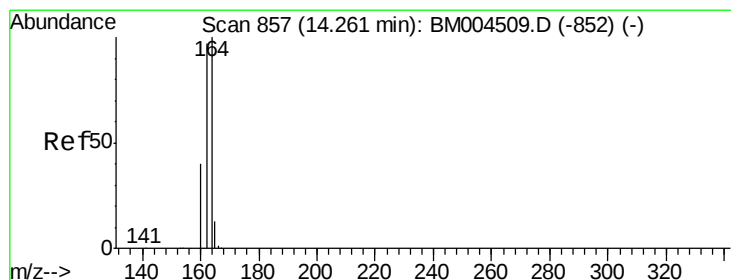
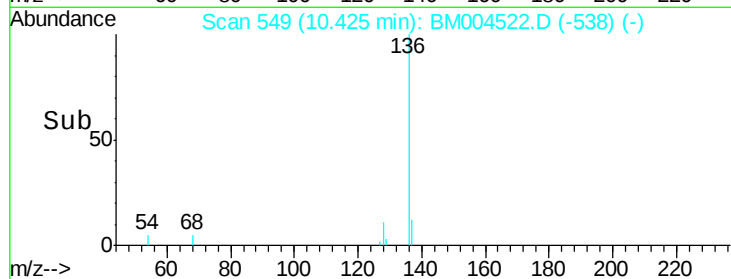
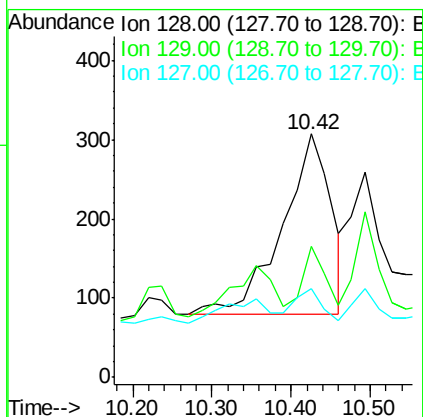
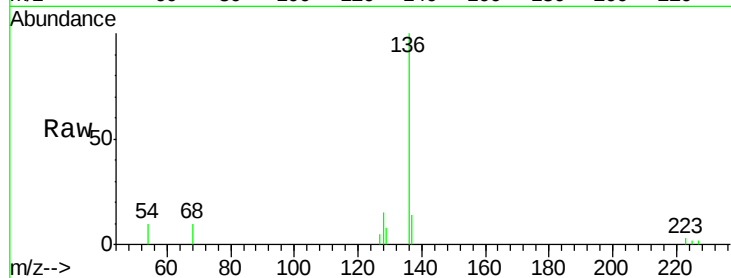




#10
Naphthalene
Concen: 0.06 ng
RT: 10.42 min Scan# 549
Delta R.T. -0.02 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

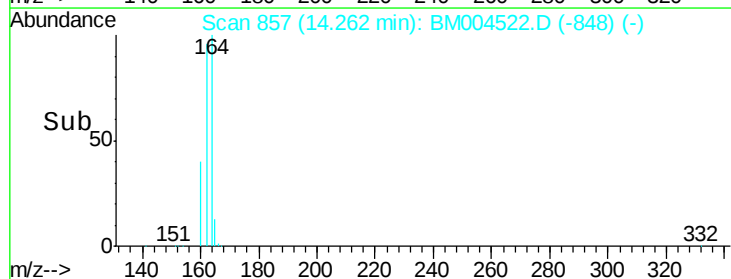
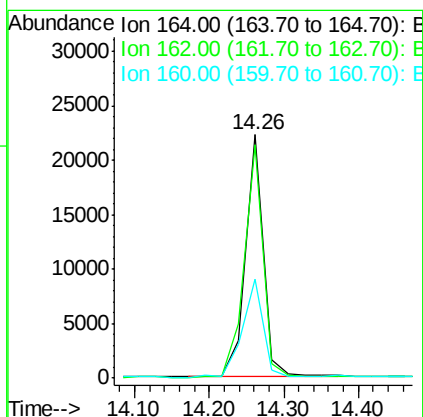
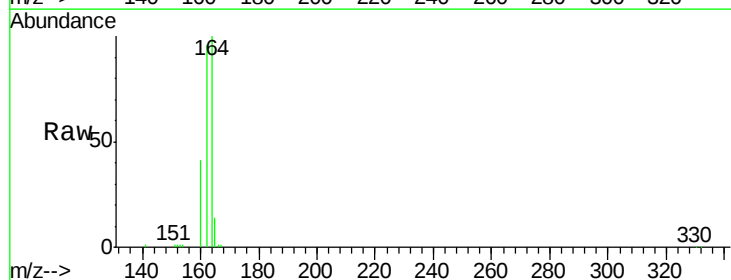
Instrument :
BNA_M
ClientSampled :
MW-3DL

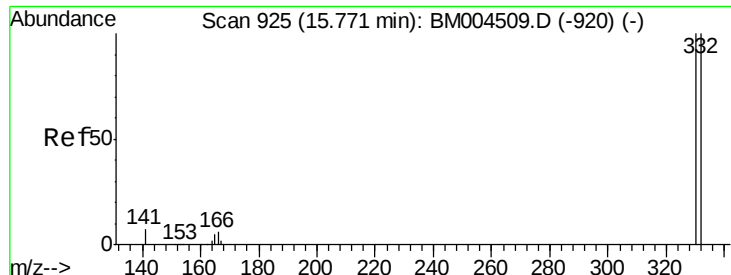
Tot Ion:128 Resp: 975
Ion Ratio Lower Upper
128 100
129 54.1 9.8 14.6#
127 36.5 9.9 14.9#



#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.26 min Scan# 857
Delta R.T. -0.00 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

Tgt Ion:164 Resp: 37018
Ion Ratio Lower Upper
164 100
162 96.0 81.6 122.4
160 40.6 34.9 52.3

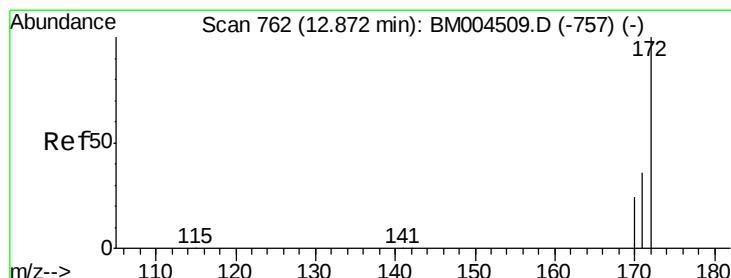
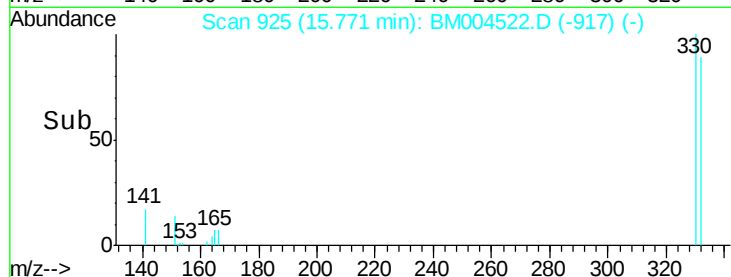
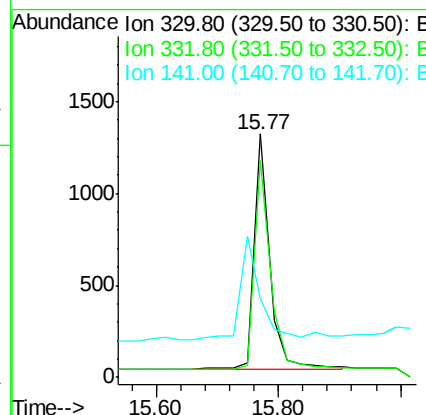
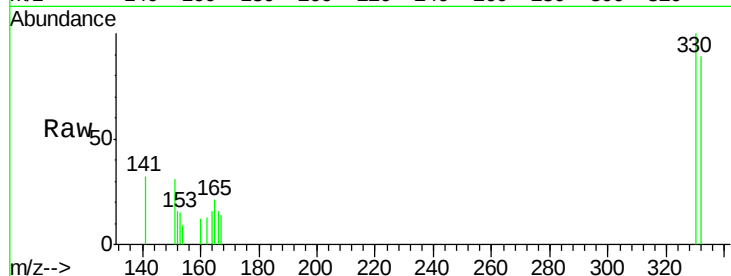




#14
 2,4,6-Tribromophenol
 Concen: 1.82 ng
 RT: 15.77 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: BM004522.D
 Acq: 02 Mar 2016 16:21

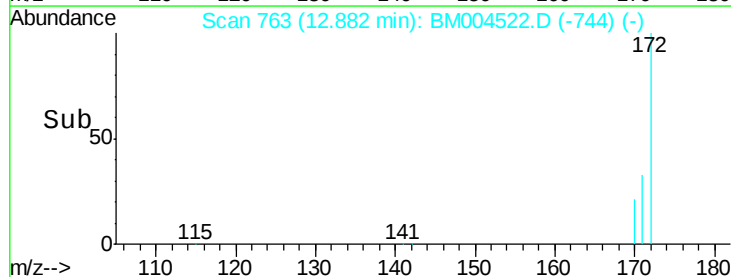
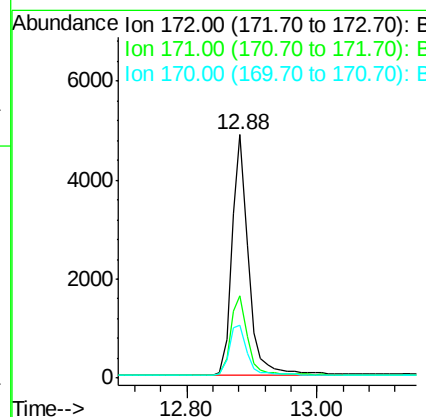
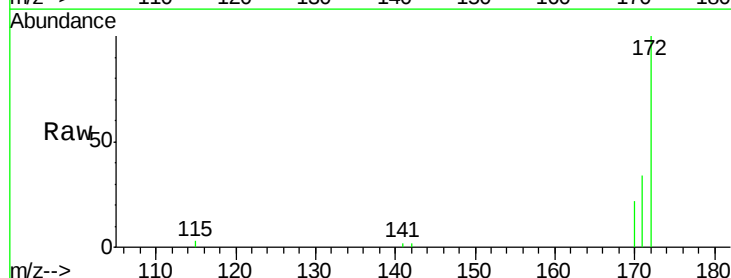
Instrument :
 BNA_M
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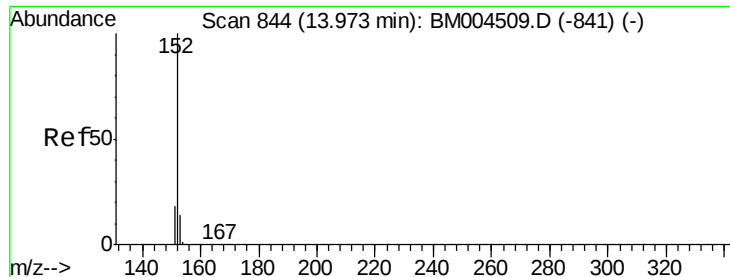
Tot Ion:330 Resp: 2236
 Ion Ratio Lower Upper
 330 100
 332 92.9 76.6 114.8
 141 0.0 0.0 0.0



#15
 2-Fluorobiphenyl
 Concen: 0.75 ng
 RT: 12.88 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: BM004522.D
 Acq: 02 Mar 2016 16:21

Tgt Ion:172 Resp: 8544
 Ion Ratio Lower Upper
 172 100
 171 34.0 29.5 44.3
 170 21.9 20.2 30.2





#16

Acenaphthylene

Concen: 0.11 ng

RT: 13.97 min Scan# 844

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

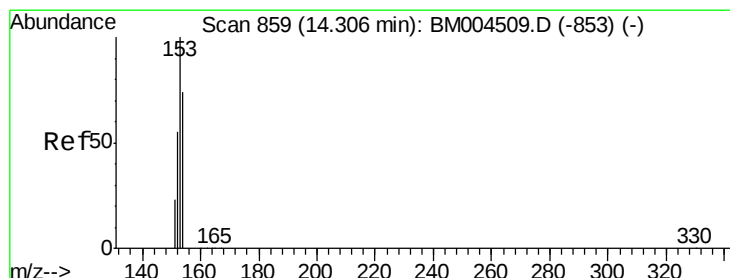
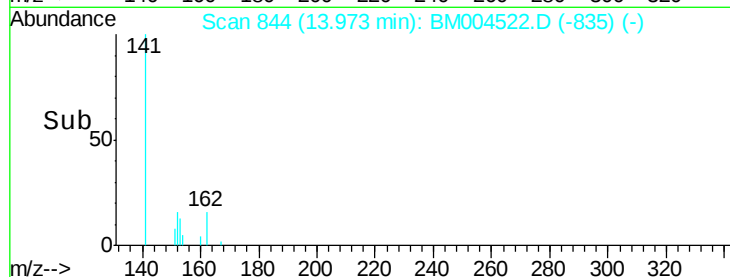
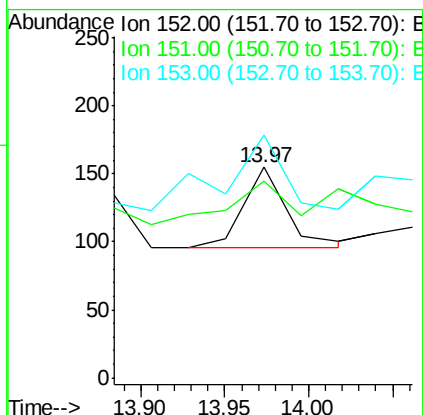
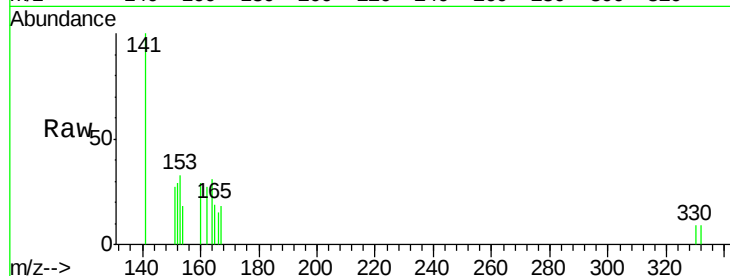
Tot Ion:152 Resp: 103

Ion Ratio Lower Upper

152 100

151 70.9 15.8 23.6#

153 132.0 10.2 15.4#



#17

Acenaphthene

Concen: 0.04 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

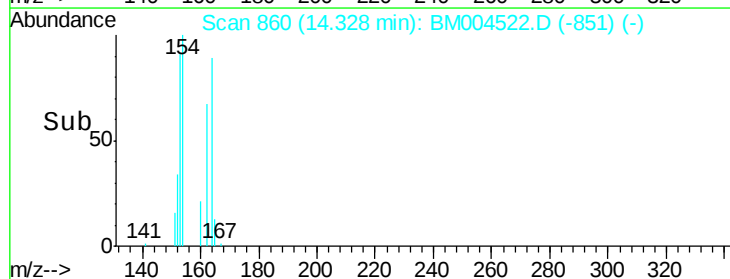
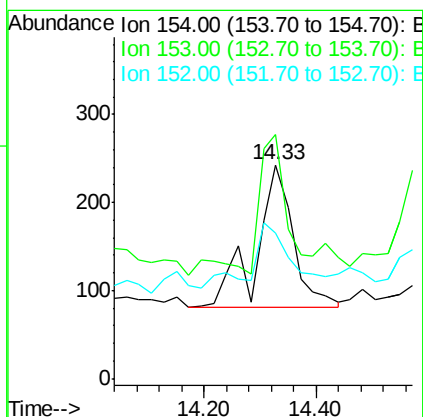
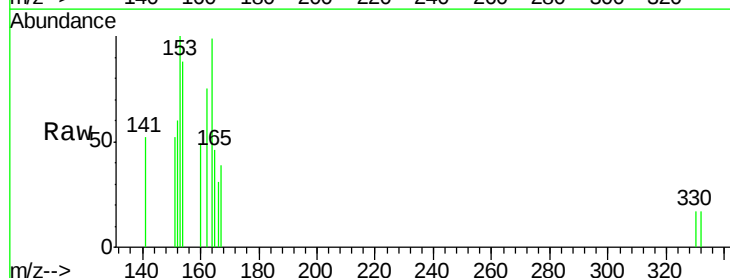
Tgt Ion:154 Resp: 744

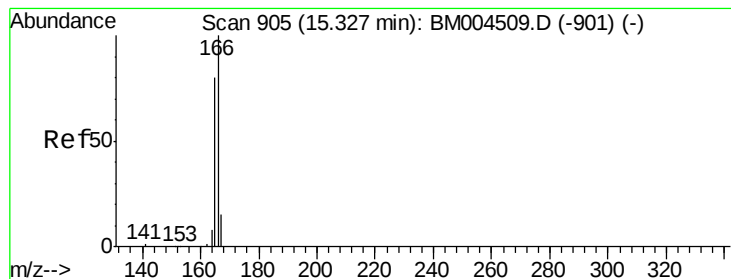
Ion Ratio Lower Upper

154 100

153 62.2 88.7 133.1#

152 0.0 41.8 62.8#





#18

Fluorene

Concen: 0.06 ng

RT: 15.33 min Scan# 905

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

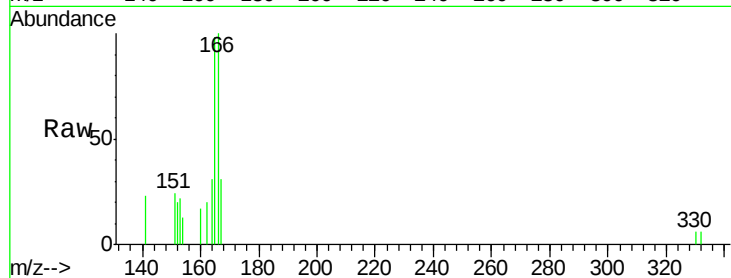
Tot Ion:166 Resp: 1072

Ion Ratio Lower Upper

166 100

165 102.1 77.8 116.6

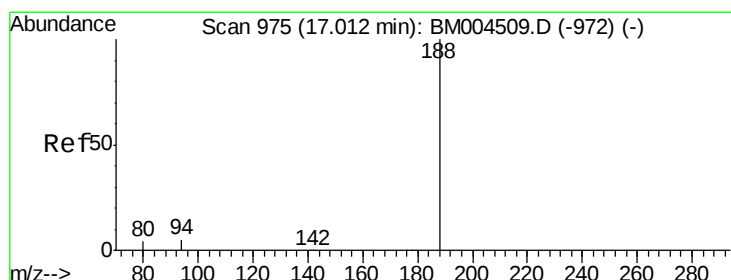
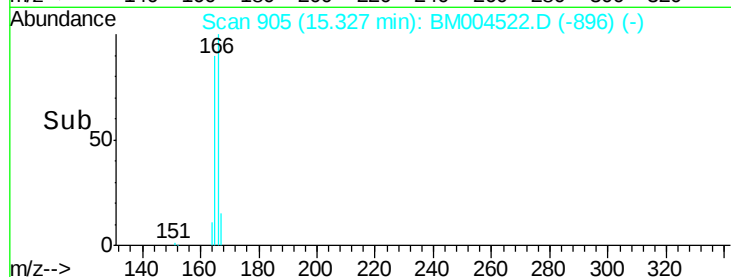
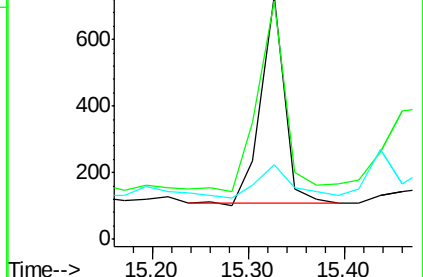
167 23.1 10.8 16.2#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 975

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

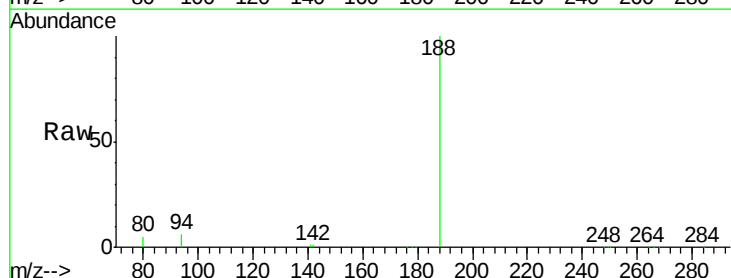
Tgt Ion:188 Resp: 84484

Ion Ratio Lower Upper

188 100

94 5.7 6.3 9.5#

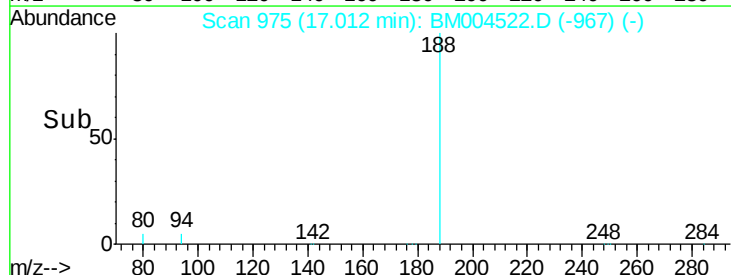
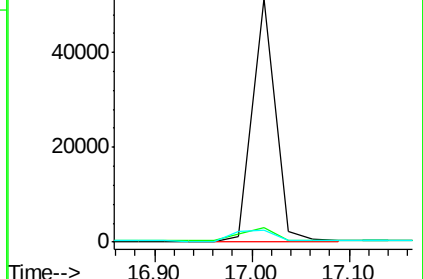
80 4.9 5.9 8.9#

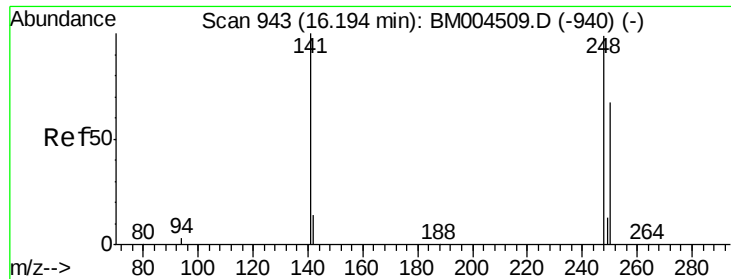


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

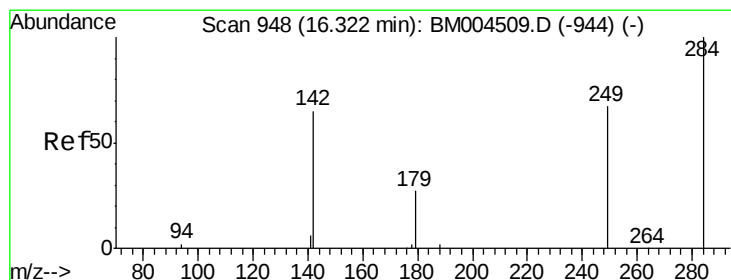
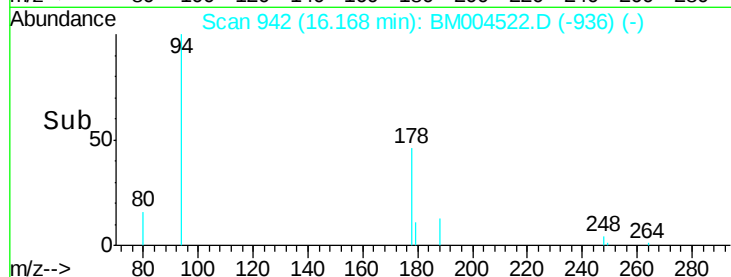
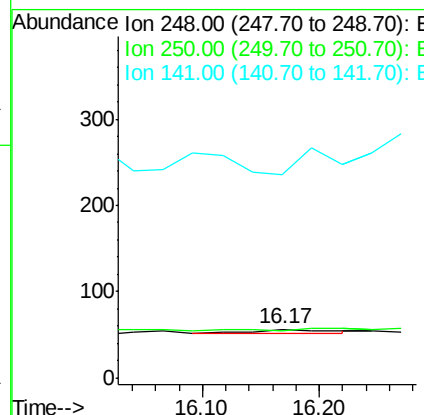
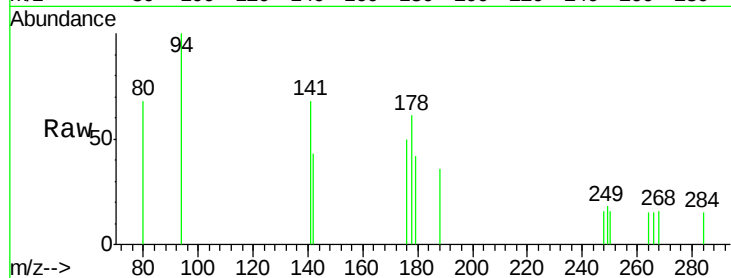




#20
4-Bromophenyl-phenylether
Concen: 0.14 ng
RT: 16.17 min Scan# 942
Delta R.T. -0.05 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

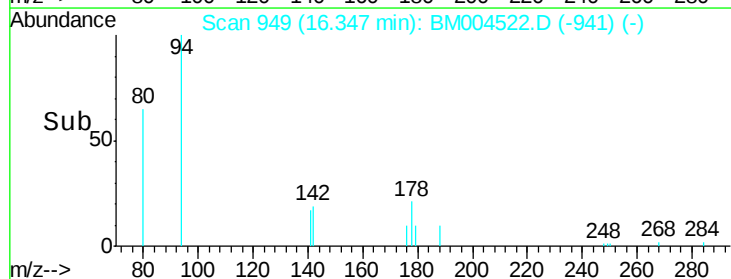
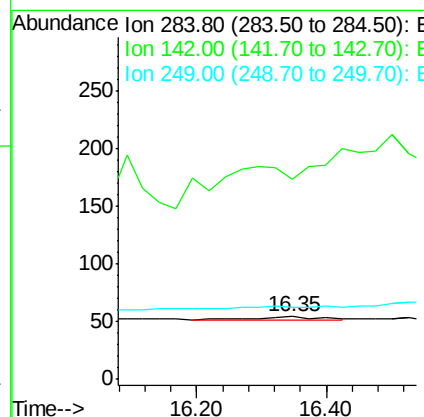
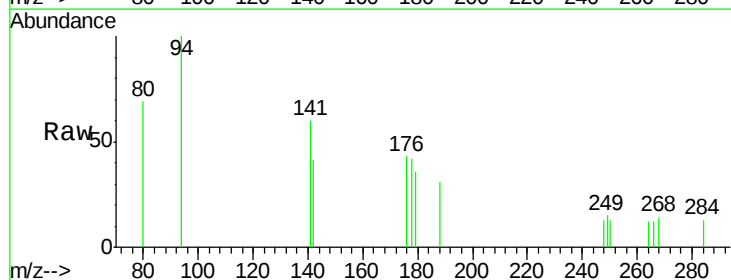
Instrument :
BNA_M
ClientSampleId :
MW-3DL

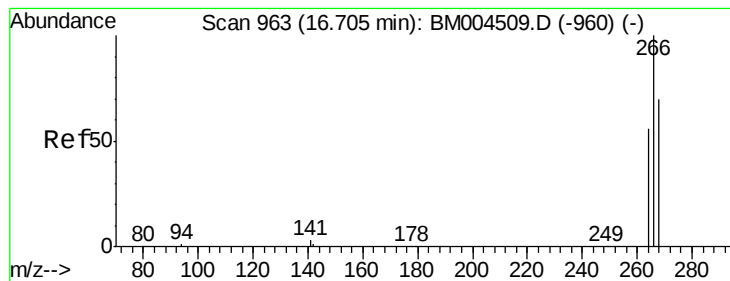
Tot Ion:248 Resp: 17
Ion Ratio Lower Upper
248 100
250 0.0 85.8 128.8#
141 0.0 0.0 0.0



#21
Hexachlorobenzene
Concen: Below Cal
RT: 16.35 min Scan# 949
Delta R.T. 0.00 min
Lab File: BM004522.D
Acq: 02 Mar 2016 16:21

Tgt Ion:284 Resp: 20
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 0.0 0.0





#22

Pentachlorophenol

Concen: 4.53 ng

RT: 16.71 min Scan# 963

Delta R.T. -0.02 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

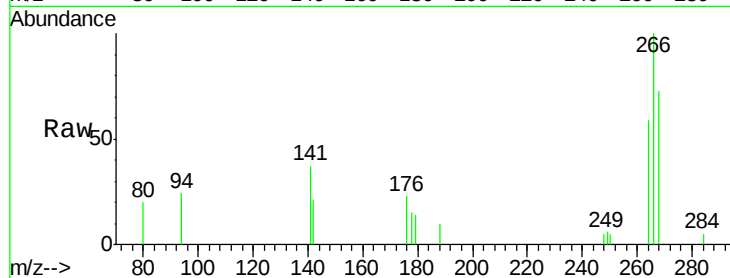
Tot Ion:266 Resp: 2998

Ion Ratio Lower Upper

266 100

268 72.9 63.0 94.6

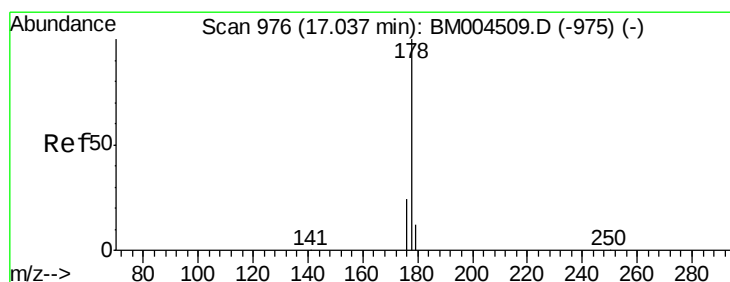
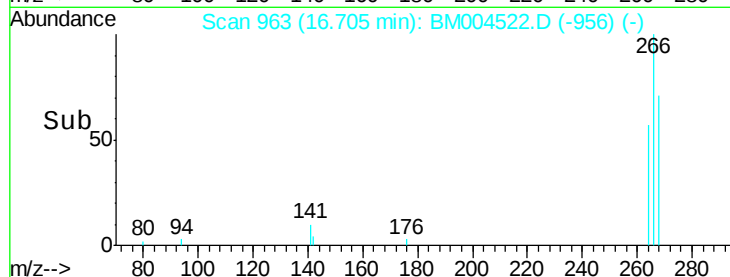
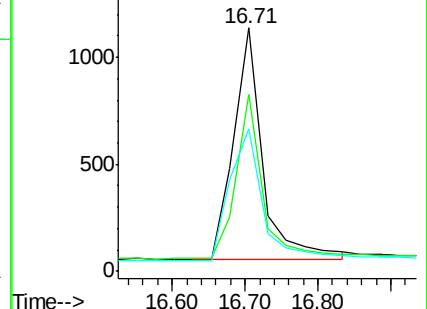
264 58.5 59.6 89.4#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#23

Phenanthrene

Concen: Below Cal

RT: 17.06 min Scan# 977

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

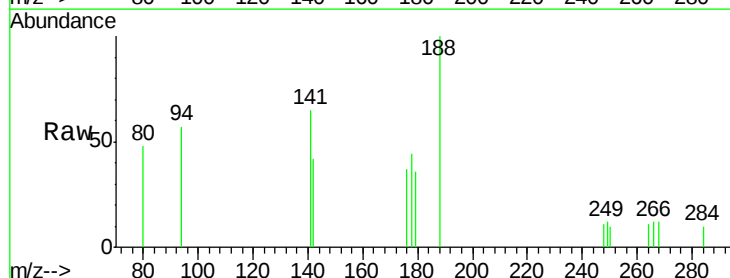
Tgt Ion:178 Resp: 334

Ion Ratio Lower Upper

178 100

176 0.0 15.0 22.4#

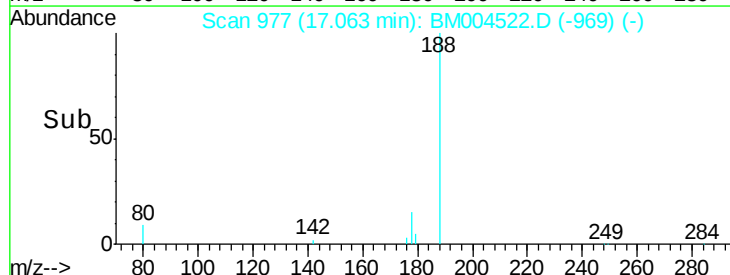
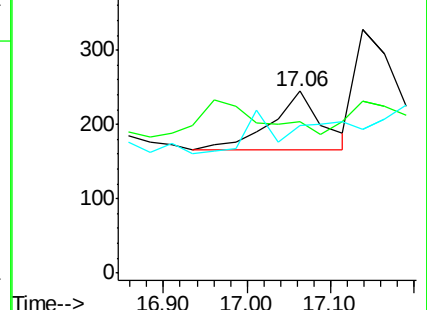
179 0.0 12.8 19.2#

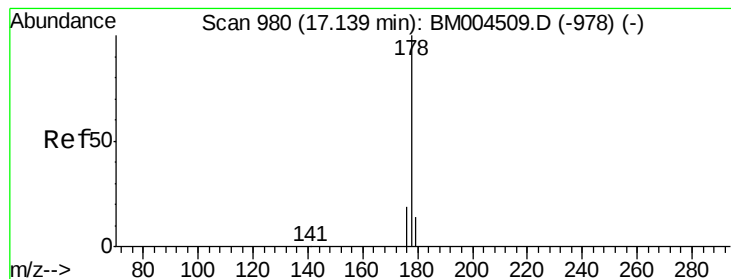


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.21 ng

RT: 17.14 min Scan# 980

Delta R.T. -0.03 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampled :

MW-3DL

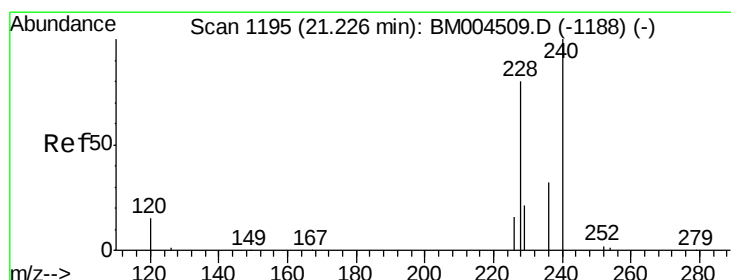
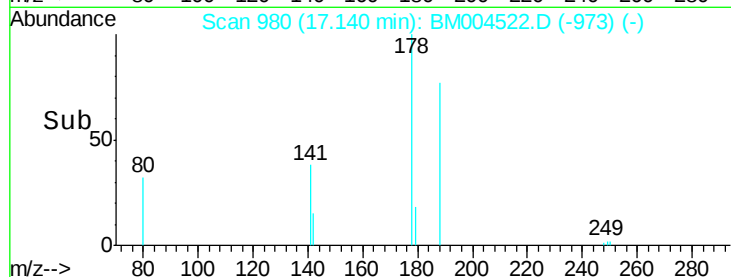
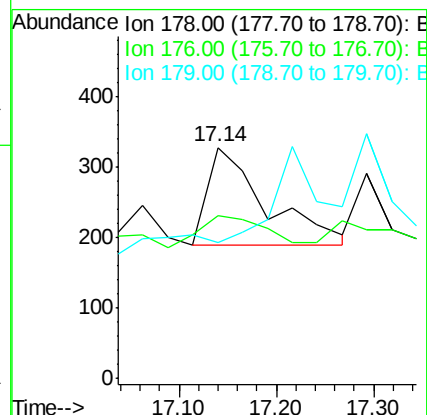
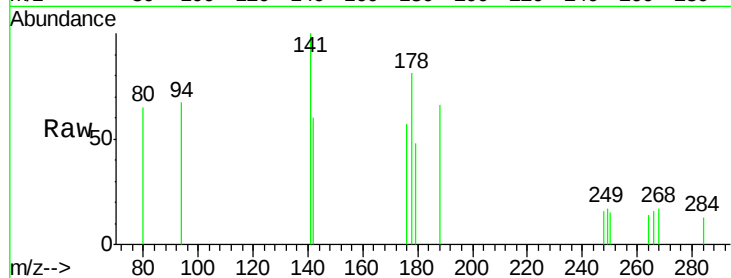
Tot Ion:178 Resp: 577

Ion Ratio Lower Upper

178 100

176 35.5 14.7 22.1#

179 0.0 12.2 18.4#



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.23 min Scan# 1195

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

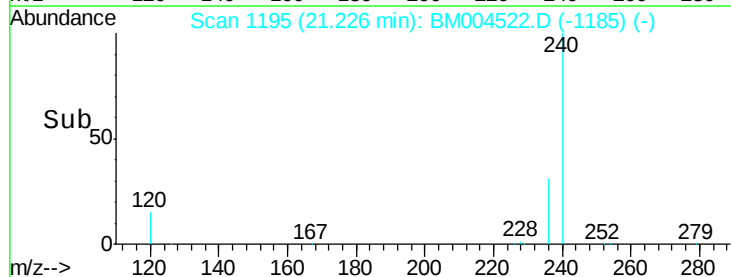
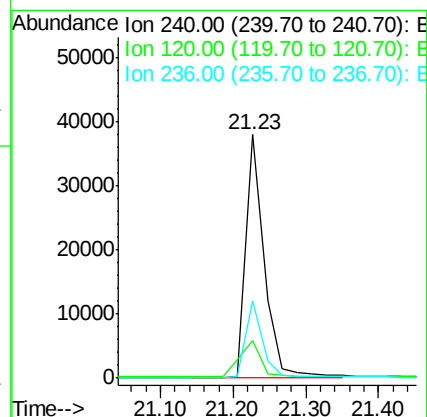
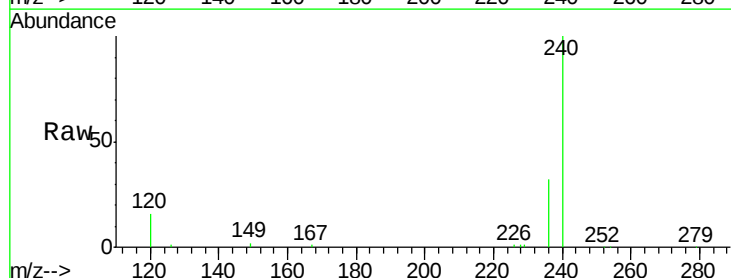
Tgt Ion:240 Resp: 65430

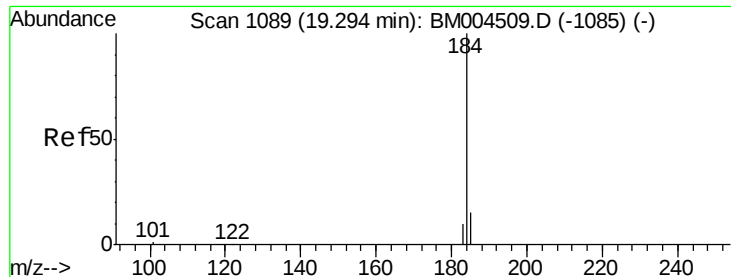
Ion Ratio Lower Upper

240 100

120 15.5 18.9 28.3#

236 31.7 26.4 39.6





#27

Benzidine

Concen: 0.36 ng

RT: 19.35 min Scan# 1092

Delta R.T. 0.02 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

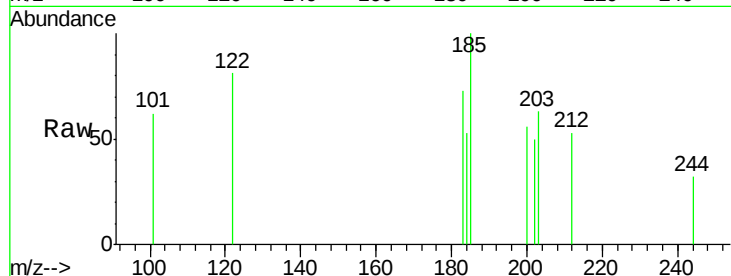
Tot Ion:184 Resp: 57

Ion Ratio Lower Upper

184 100

185 188.1 15.0 22.4#

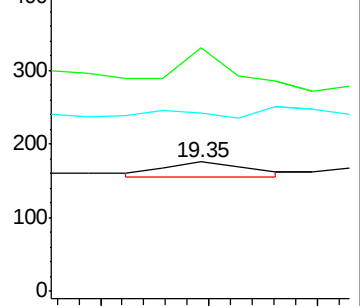
183 137.5 12.6 19.0#



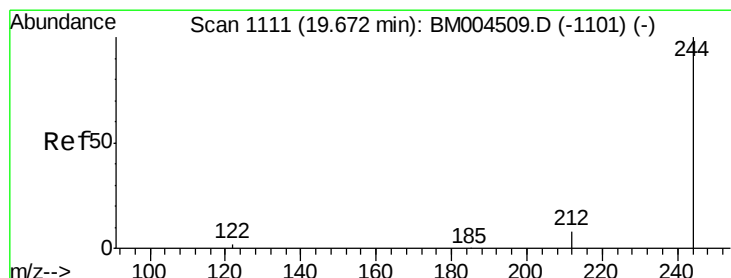
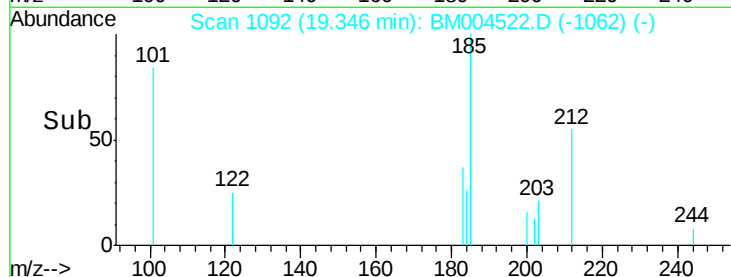
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



Time-->



#29

Terphenyl-d14

Concen: 0.82 ng

RT: 19.67 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

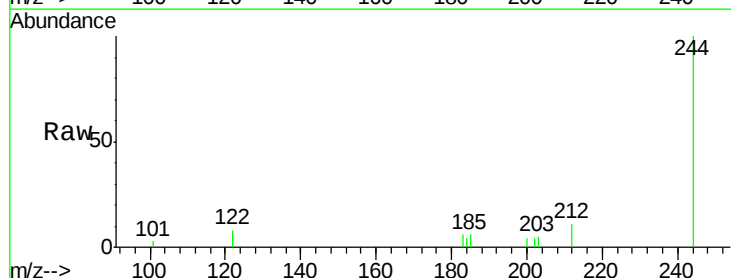
Tgt Ion:244 Resp: 8884

Ion Ratio Lower Upper

244 100

212 10.9 7.8 11.6

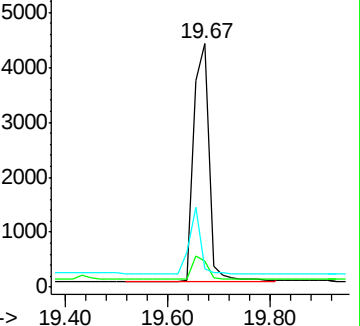
122 7.6 7.0 10.4



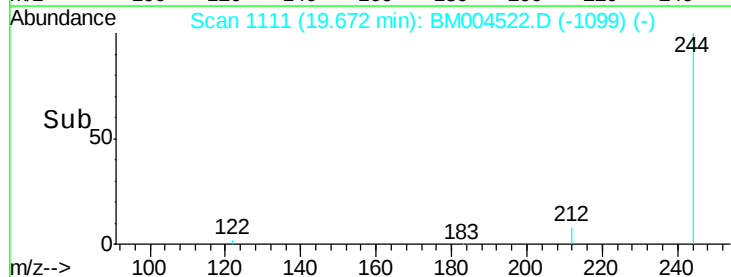
Abundance Ion 244.00 (243.70 to 244.70): E

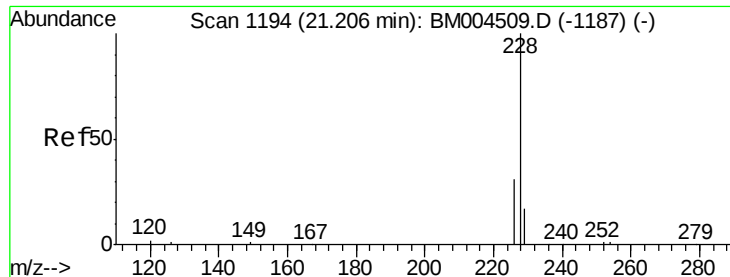
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





#30

Benzo(a)anthracene

Concen: 0.15 ng

RT: 21.27 min Scan# 1197

Delta R.T. 0.06 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampled :

MW-3DL

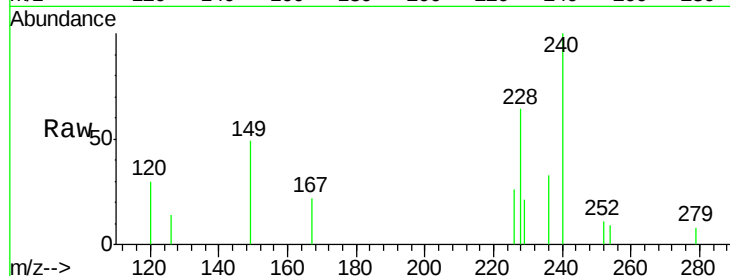
Tot Ion:228 Resp: 2412

Ion Ratio Lower Upper

228 100

226 40.5 27.0 40.4#

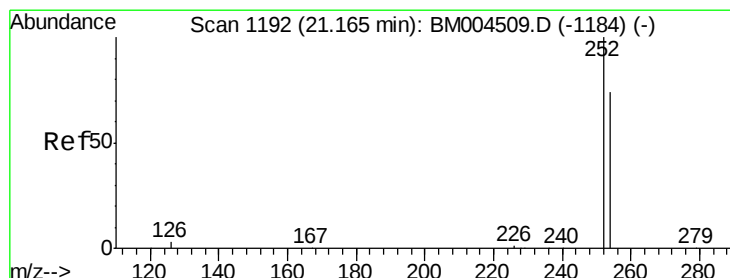
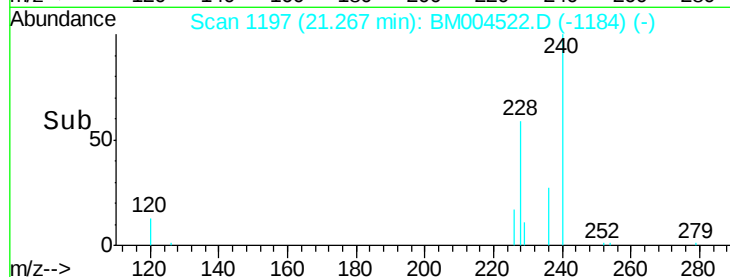
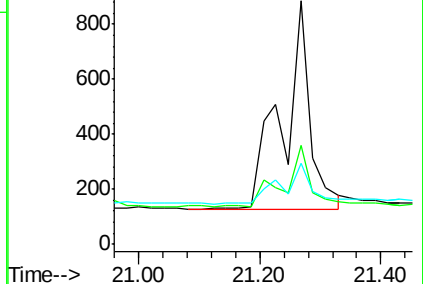
229 33.4 13.1 19.7#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

3,3'-Dichlorobenzidine

Concen: 0.04 ng

RT: 21.14 min Scan# 1191

Delta R.T. -0.02 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

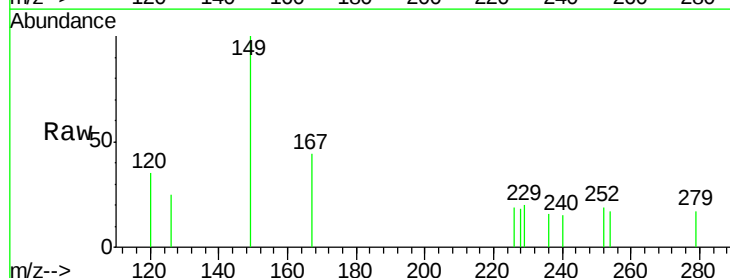
Tgt Ion:252 Resp: 226

Ion Ratio Lower Upper

252 100

254 88.7 47.4 71.0#

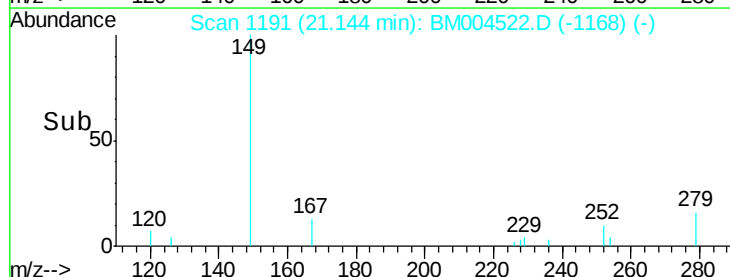
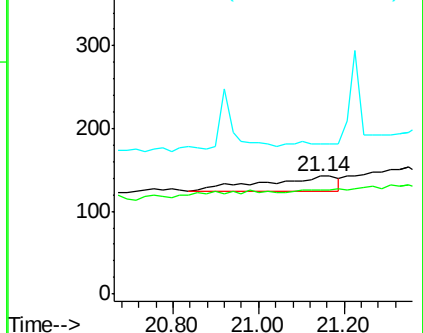
126 128.2 11.0 16.6#

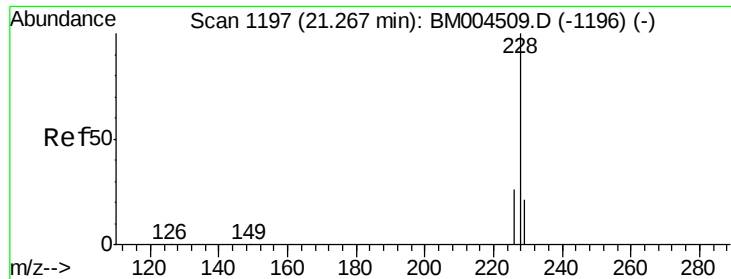


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#32

Chrysene

Concen: Below Cal

RT: 21.27 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

Instrument :

BNA_M

ClientSampleId :

MW-3DL

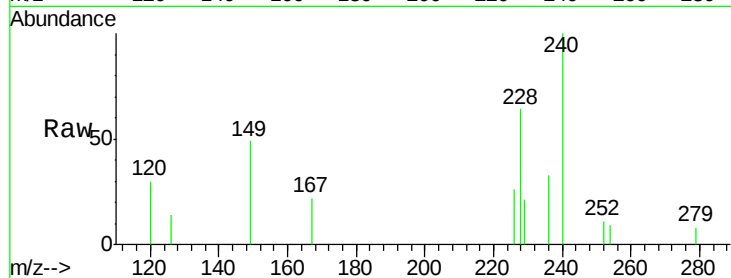
Tot Ion:228 Resp: 2522

Ion Ratio Lower Upper

228 100

226 40.5 24.6 37.0#

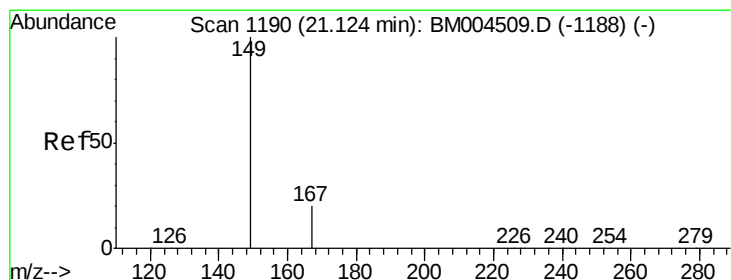
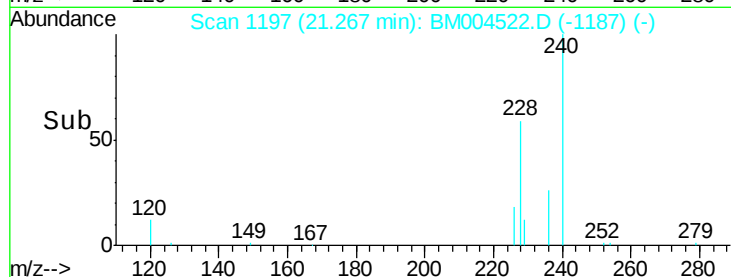
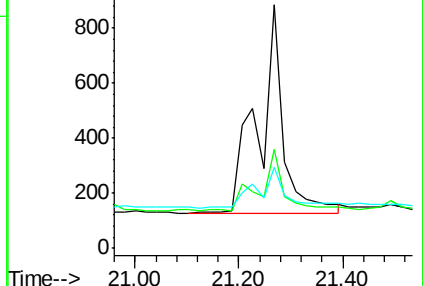
229 33.4 15.2 22.8#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.18 ng

RT: 21.12 min Scan# 1190

Delta R.T. -0.00 min

Lab File: BM004522.D

Acq: 02 Mar 2016 16:21

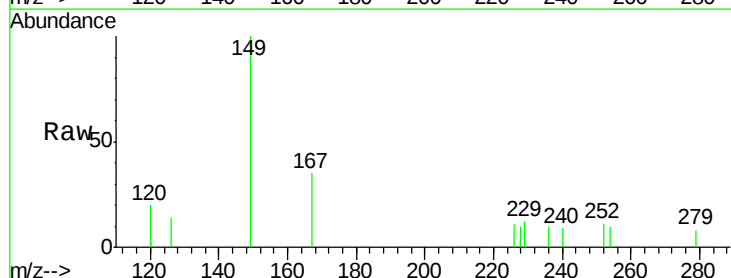
Tgt Ion:149 Resp: 941

Ion Ratio Lower Upper

149 100

167 24.2 20.2 30.4

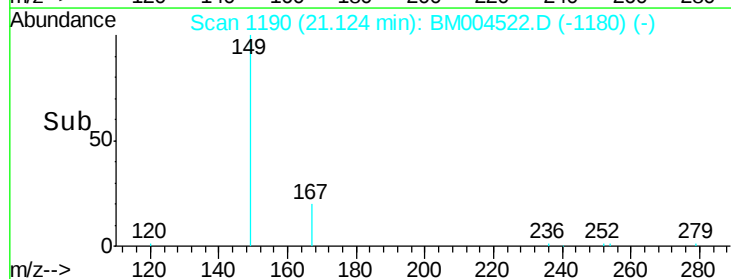
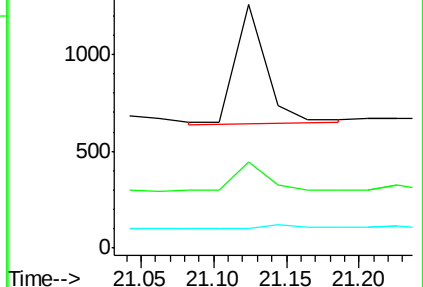
279 0.0 0.0 0.0

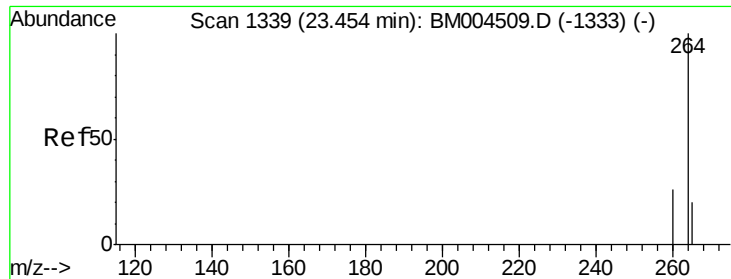


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

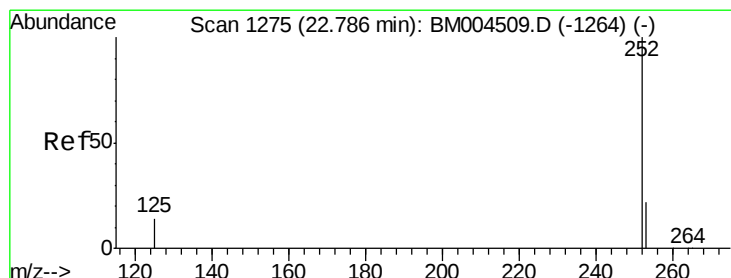
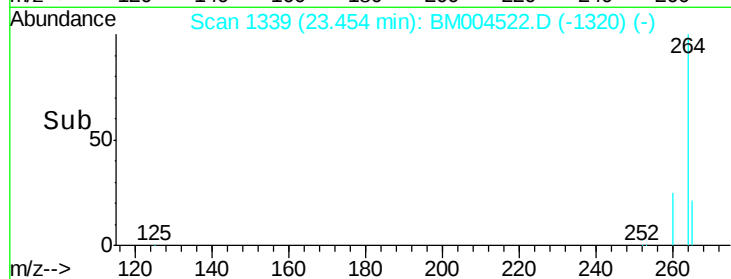
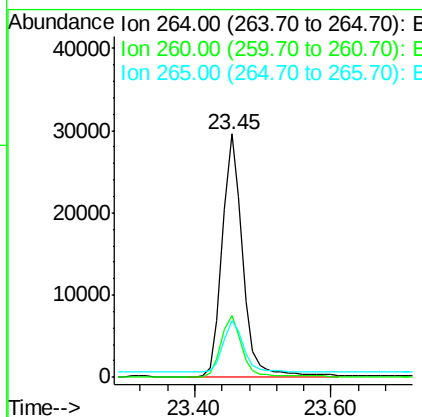
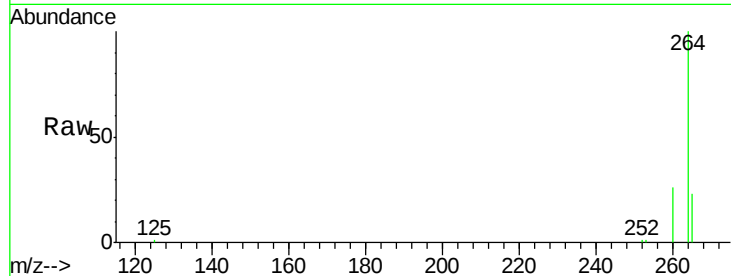




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 23.45 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: BM004522.D
 Acq: 02 Mar 2016 16:21

Instrument :
 BNA_M
 ClientSampleId :
 MW-3DL

Tot Ion:264 Resp: 61038
 Ion Ratio Lower Upper
 264 100
 260 25.7 21.2 31.8
 265 23.3 17.4 26.0



#36
 Benzo(b)fluoranthene
 Concen: Below Cal
 RT: 22.80 min Scan# 1276
 Delta R.T. 0.00 min
 Lab File: BM004522.D
 Acq: 02 Mar 2016 16:21

Tgt Ion:252 Resp: 854
 Ion Ratio Lower Upper
 252 100
 253 68.1 19.0 28.4#
 125 61.6 11.7 17.5#

