

Data Path : Z:\HPCHEM1\BNA M\Data\BM030116\
 Data File : BM004519.D
 Acq On : 02 Mar 2016 14:32
 Operator : SJ/UM
 Sample : H1509-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MW-5

Quant Time: Mar 02 16:00:26 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

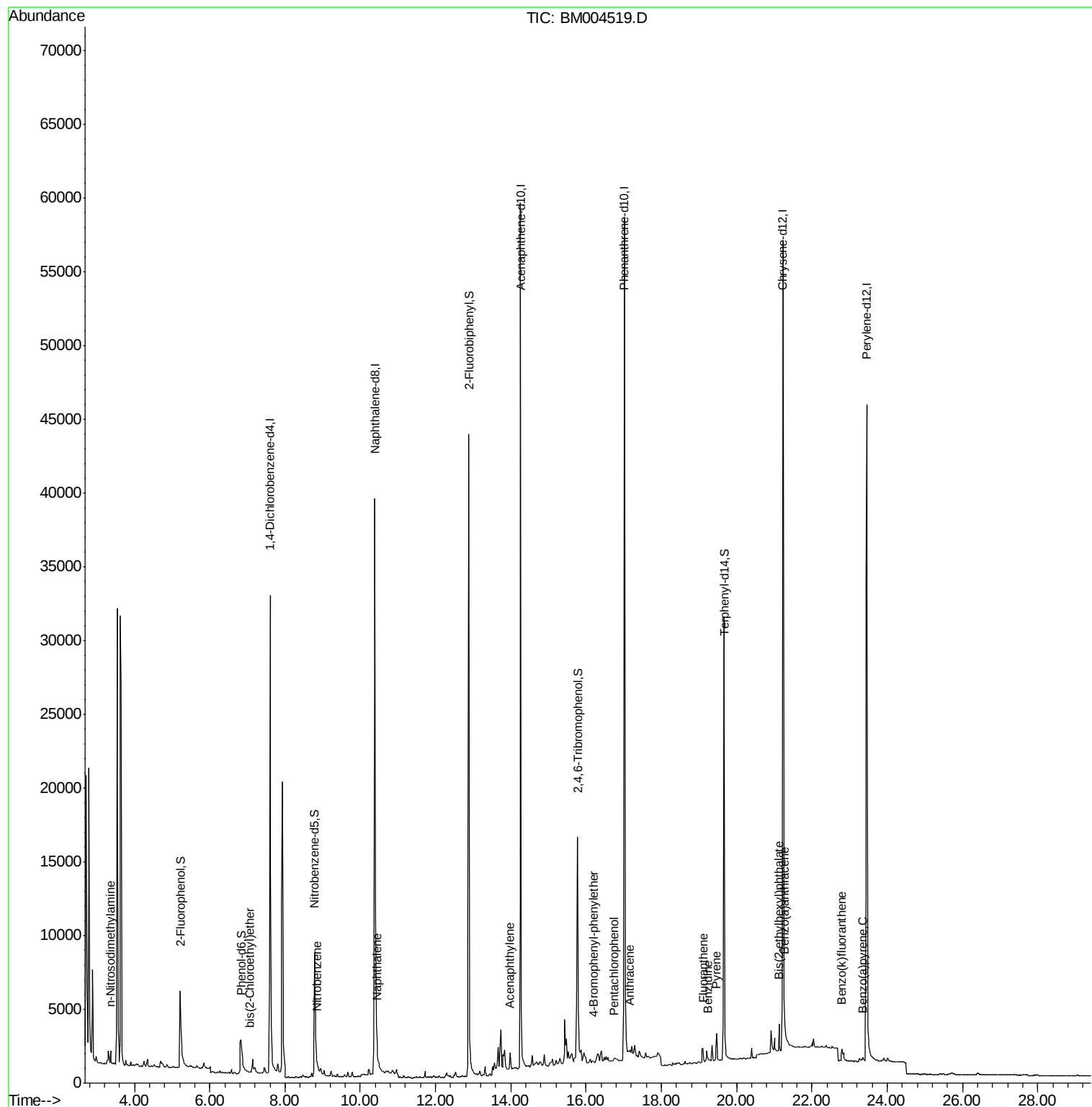
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	18777	5.00	ng	0.00
7) Naphthalene-d8	10.39	136	71922	5.00	ng	0.00
13) Acenaphthene-d10	14.26	164	37146	5.00	ng	0.00
19) Phenanthrene-d10	17.01	188	86927	5.00	ng	0.00
26) Chrysene-d12	21.23	240	67173	5.00	ng	0.00
35) Perylene-d12	23.45	264	63156	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.22	112	9221	2.35	ng	-0.02
5) Phenol-d6	6.83	99	6195	1.30	ng	0.00
8) Nitrobenzene-d5	8.78	82	13018	3.43	ng	-0.01
14) 2,4,6-Tribromophenol	15.77	330	11554	8.44	ng	-0.02
15) 2-Fluorobiphenyl	12.88	172	50432	4.36	ng	0.00
29) Terphenyl-d14	19.67	244	47351	4.75	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.37	42	119	0.09	ng	# 1
6) bis(2-Chloroethyl)ether	7.07	93	24	0.09	ng	# 1
9) Nitrobenzene	8.84	77	33	0.19	ng	# 33
10) Naphthalene	10.44	128	698	0.04	ng	# 1
16) Acenaphthylene	13.97	152	229	0.11	ng	# 1
17) Acenaphthene	14.33	154	241	Below Cal	#	22
18) Fluorene	15.33	166	104	Below Cal	#	1
20) 4-Bromophenyl-phenylether	16.19	248	8	0.14	ng	# 1
21) Hexachlorobenzene	16.32	284	17	Below Cal	#	100
22) Pentachlorophenol	16.73	266	58	0.27	ng	# 80
23) Phenanthrene	17.06	178	761	Below Cal	#	75
24) Anthracene	17.16	178	1138	0.23	ng	# 81
25) Fluoranthene	19.11	202	1634	0.03	ng	98
27) Benzidine	19.23	184	87	0.36	ng	# 1
28) Pyrene	19.47	202	2172	0.06	ng	# 91
30) Benzo(a)anthracene	21.27	228	2992	0.18	ng	# 82
32) Chrysene	21.27	228	3099	Below Cal	#	80
33) Bis(2-ethylhexyl)phthalate	21.12	149	2204	0.27	ng	# 98
36) Benzo(b)fluoranthene	22.80	252	2196	Below Cal	#	21
37) Benzo(k)fluoranthene	22.80	252	2196	0.06	ng	# 21
38) Benzo(a)pyrene	23.36	252	398	0.02	ng	# 1

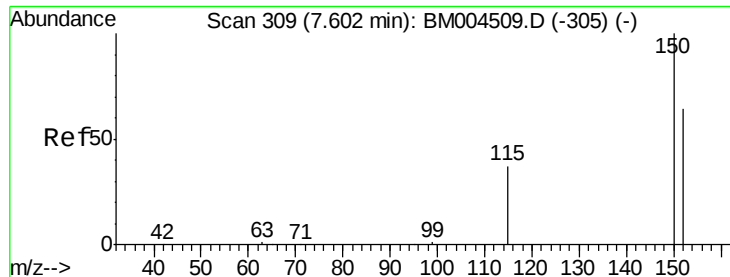
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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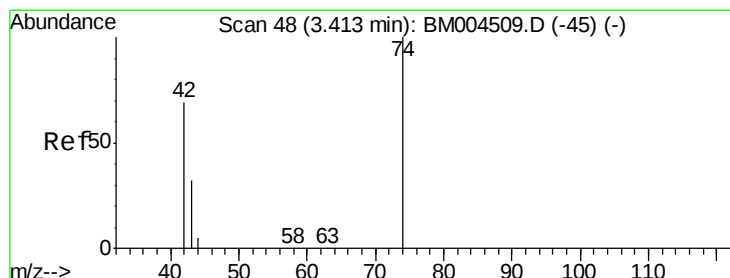
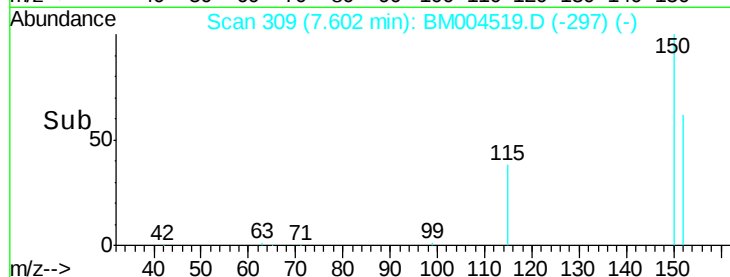
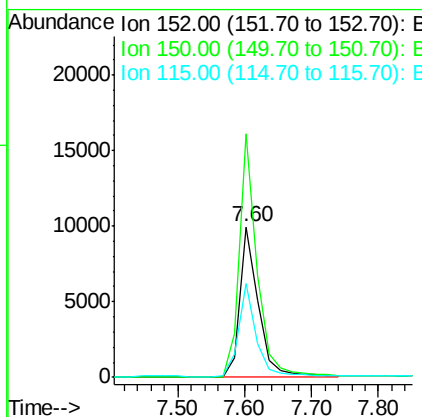
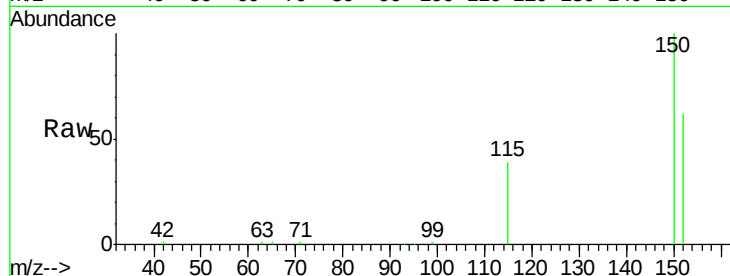


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.60 min Scan# 309
Delta R.T. -0.00 min
Lab File: BM004519.D
Acq: 02 Mar 2016 14:32

Instrument :
BNA_M
ClientSampleId :
MW-5

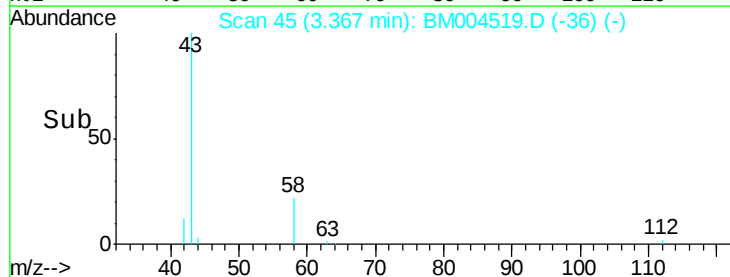
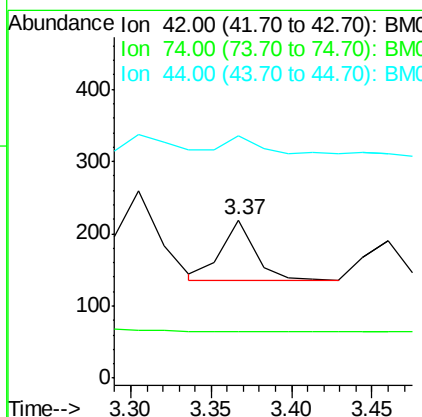
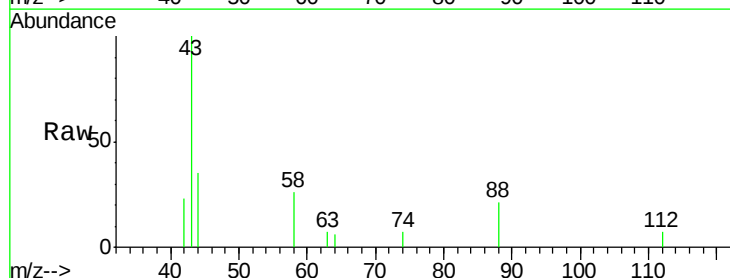
Tot Ion:152 Resp: 18777
Ion Ratio Lower Upper
152 100
150 162.0 134.2 201.2
115 62.5 52.2 78.4

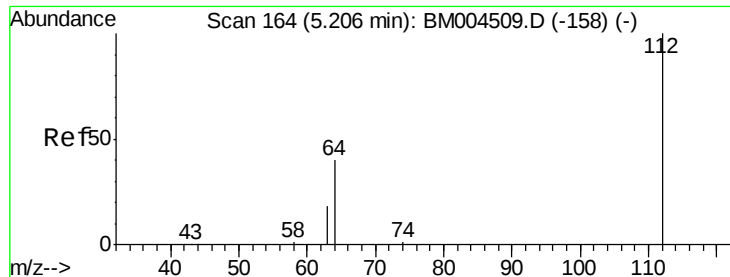


#3

n-Nitrosodimethylamine
Concen: 0.09 ng
RT: 3.37 min Scan# 45
Delta R.T. -0.06 min
Lab File: BM004519.D
Acq: 02 Mar 2016 14:32

Tgt Ion: 42 Resp: 119
Ion Ratio Lower Upper
42 100
74 0.0 115.5 173.3#
44 0.0 6.2 9.4#





#4

2-Fluorophenol

Concen: 2.35 ng

RT: 5.22 min Scan# 165

Delta R.T. -0.02 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

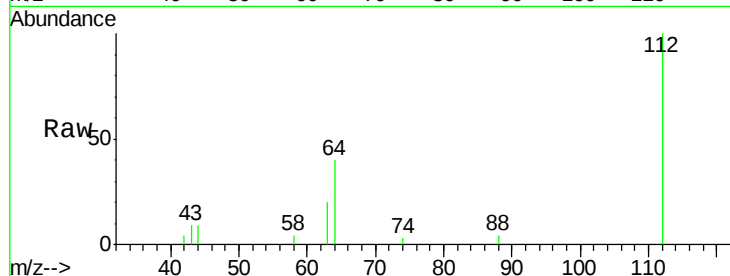
Tot Ion:112 Resp: 9221

Ion Ratio Lower Upper

112 100

64 48.9 37.0 55.6

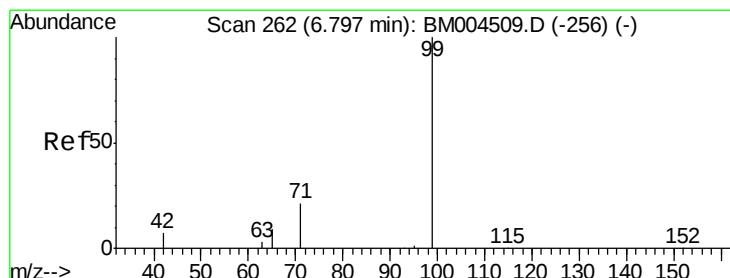
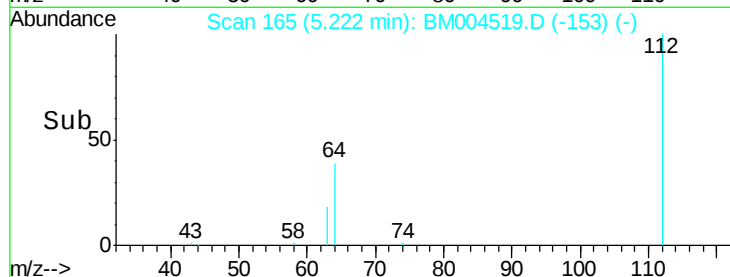
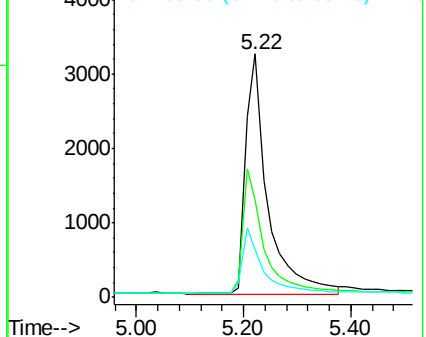
63 24.8 19.0 28.4



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#5

Phenol-d6

Concen: 1.30 ng

RT: 6.83 min Scan# 264

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

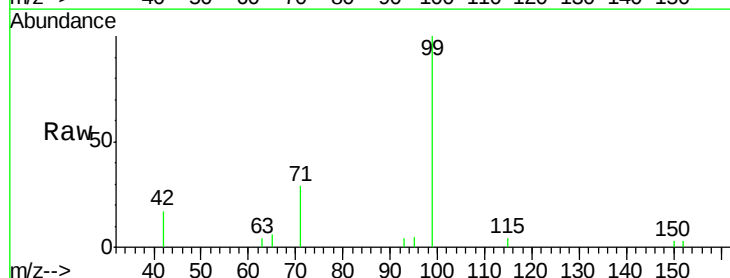
Tgt Ion: 99 Resp: 6195

Ion Ratio Lower Upper

99 100

42 14.8 12.2 18.4

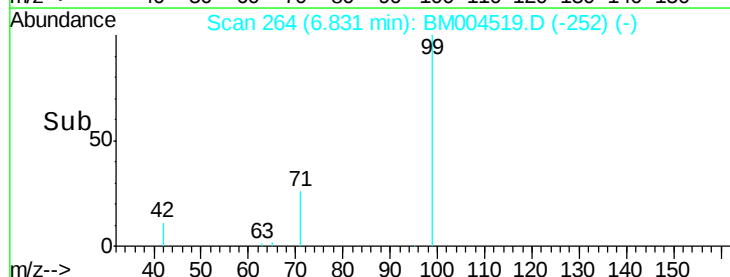
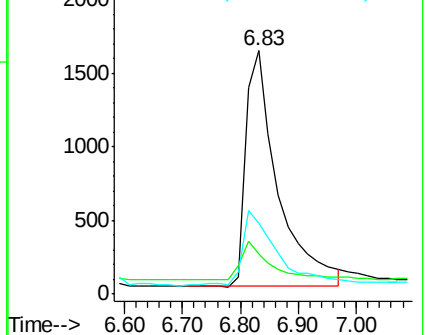
71 33.8 23.4 35.2

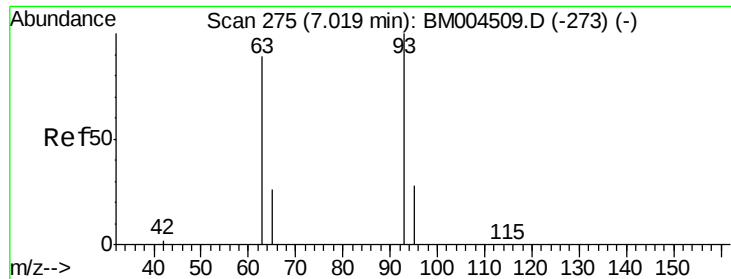


Abundance Ion 99.00 (98.70 to 99.70): BM

Ion 42.00 (41.70 to 42.70): BM

Ion 71.00 (70.70 to 71.70): BM





#6

bis(2-Chloroethyl)ether

Concen: 0.09 ng

RT: 7.07 min Scan# 278

Delta R.T. 0.03 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampled :

MW-5

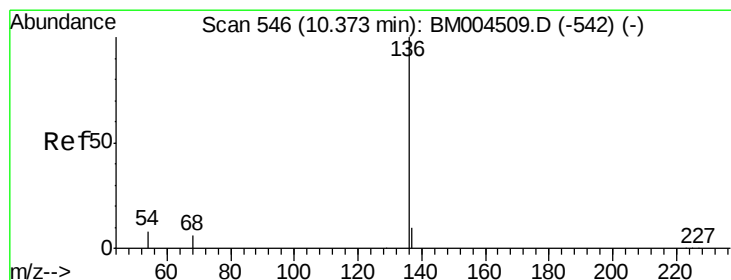
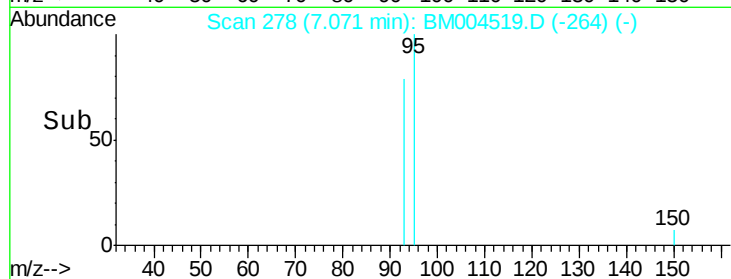
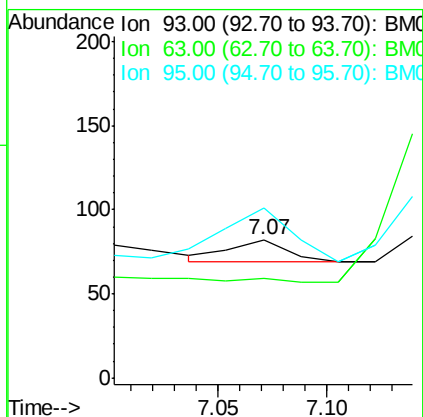
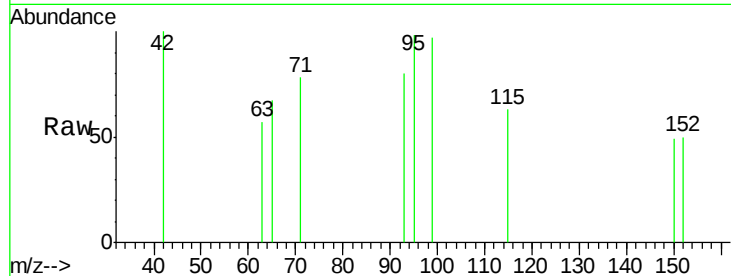
Tot Ion: 93 Resp: 24

Ion Ratio Lower Upper

93 100

63 0.0 51.1 76.7#

95 312.5 25.0 37.6#



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 547

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Tgt Ion: 136 Resp: 71922

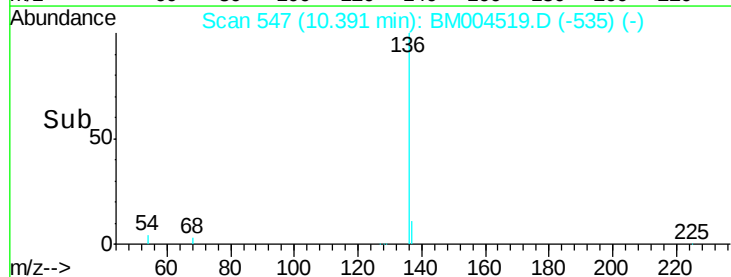
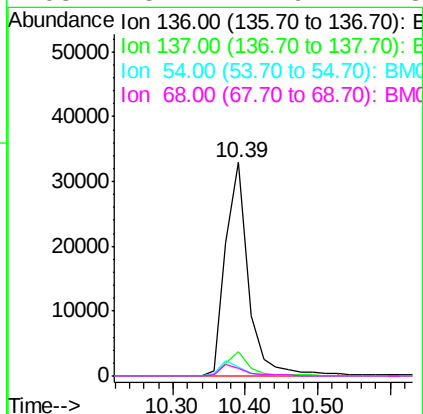
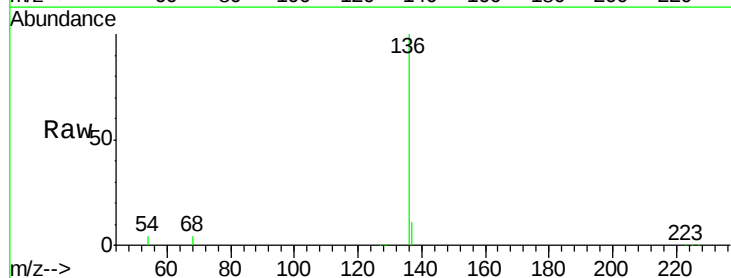
Ion Ratio Lower Upper

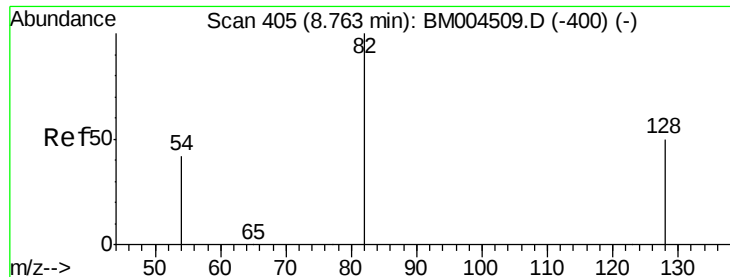
136 100

137 11.3 9.0 13.6

54 4.2 3.3 4.9

68 3.7 2.9 4.3





#8

Nitrobenzene-d5

Concen: 3.43 ng

RT: 8.78 min Scan# 407

Delta R.T. -0.01 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampled :

MW-5

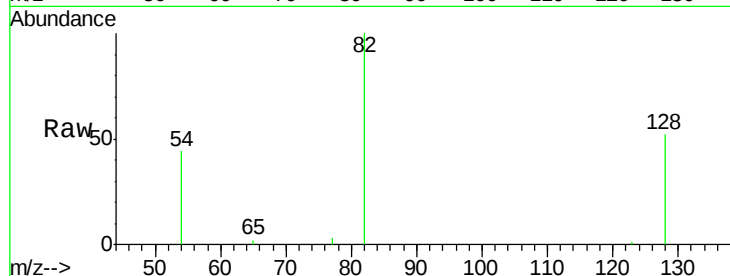
Tot Ion: 82 Resp: 13018

Ion Ratio Lower Upper

82 100

128 52.2 41.9 62.9

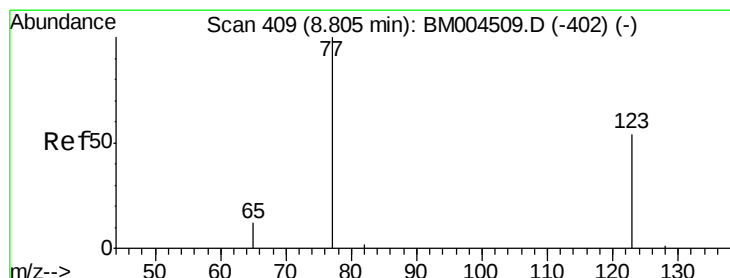
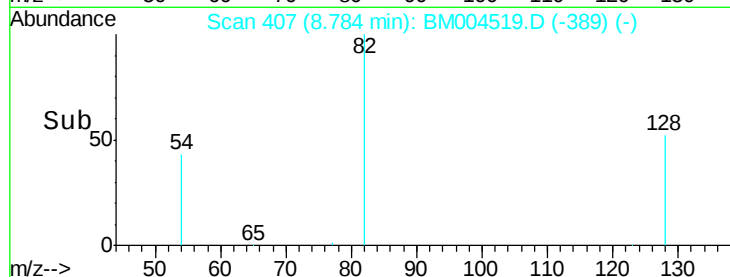
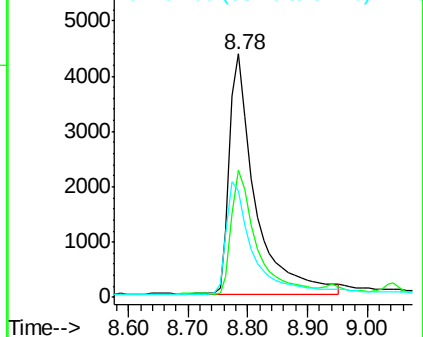
54 43.6 34.2 51.2



Abundance Ion 82.00 (81.70 to 82.70): BM0

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): BM0



#9

Nitrobenzene

Concen: 0.19 ng

RT: 8.84 min Scan# 412

Delta R.T. 0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

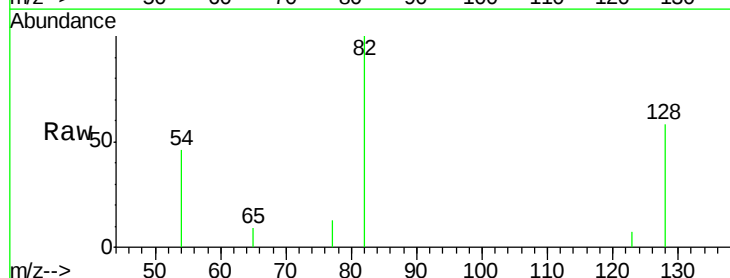
Tgt Ion: 77 Resp: 33

Ion Ratio Lower Upper

77 100

123 0.0 42.5 63.7#

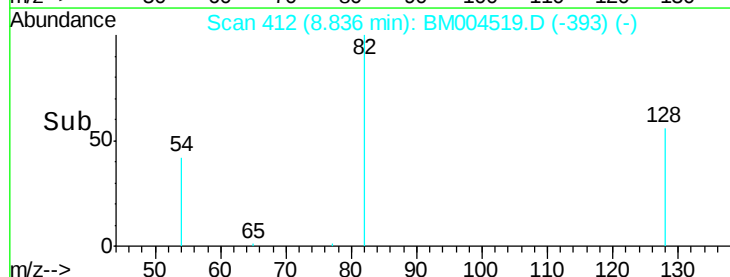
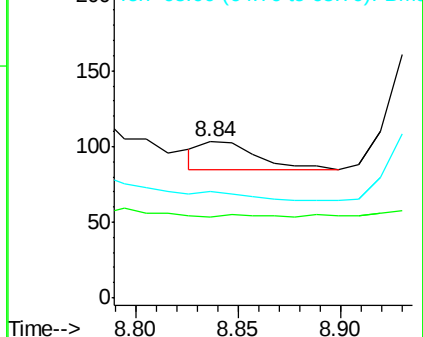
65 0.0 10.0 15.0#

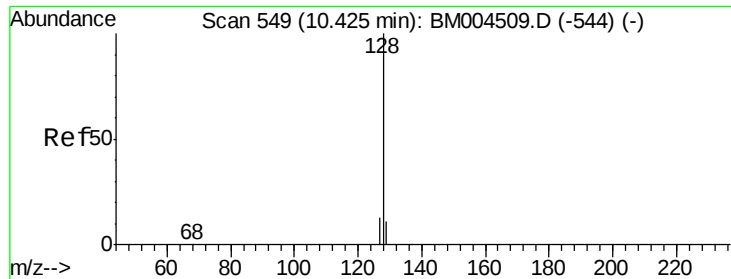


Abundance Ion 77.00 (76.70 to 77.70): BM0

Ion 123.00 (122.70 to 123.70): B

Ion 65.00 (64.70 to 65.70): BM0





#10

Naphthalene

Concen: 0.04 ng

RT: 10.44 min Scan# 550

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

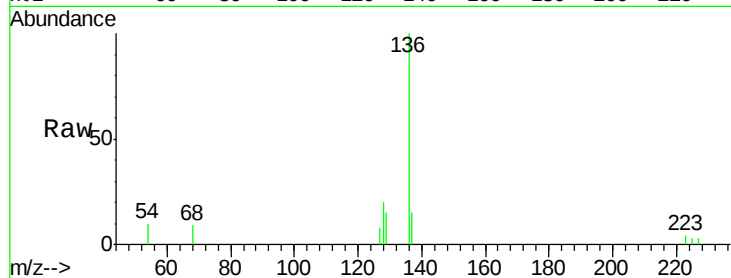
Tot Ion:128 Resp: 698

Ion Ratio Lower Upper

128 100

129 72.5 9.8 14.6#

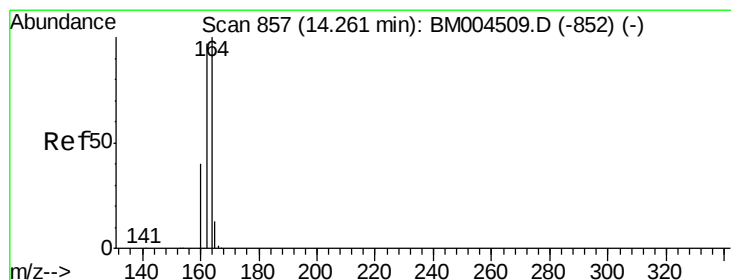
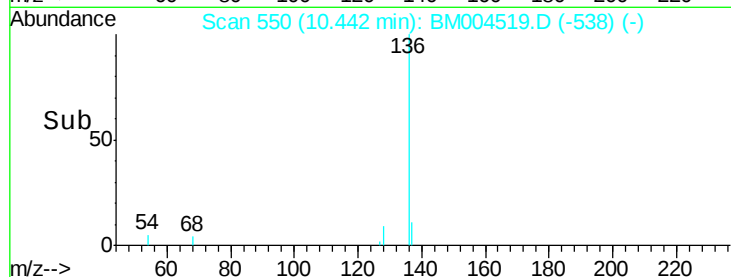
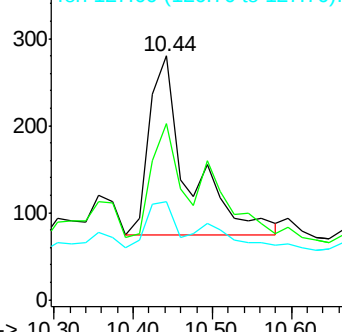
127 40.0 9.9 14.9#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.26 min Scan# 857

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

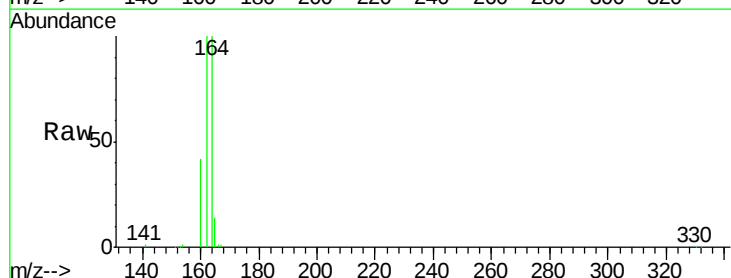
Tgt Ion:164 Resp: 37146

Ion Ratio Lower Upper

164 100

162 99.6 81.6 122.4

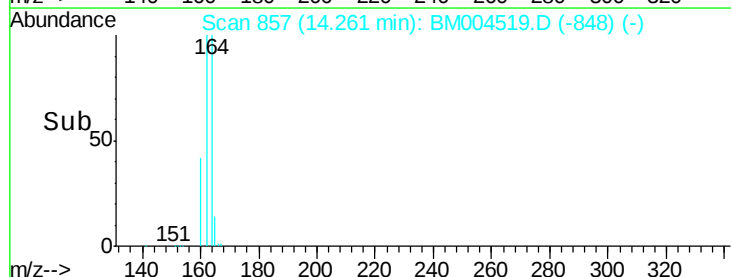
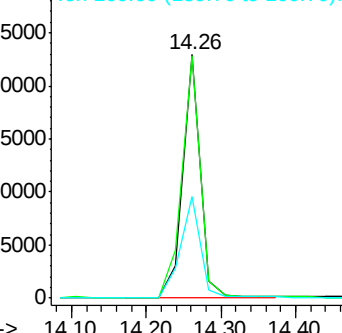
160 41.7 34.9 52.3

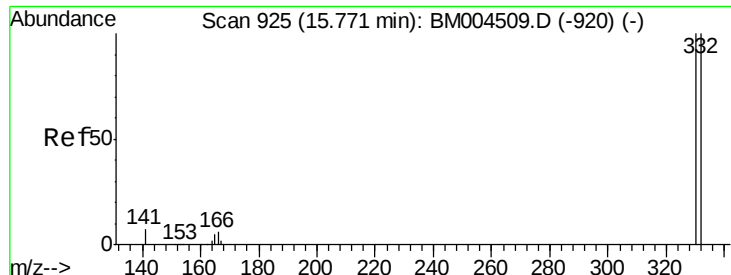


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

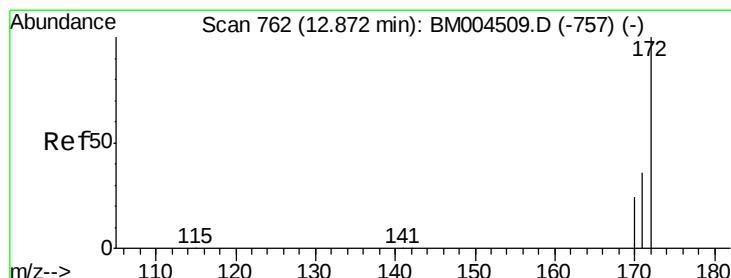
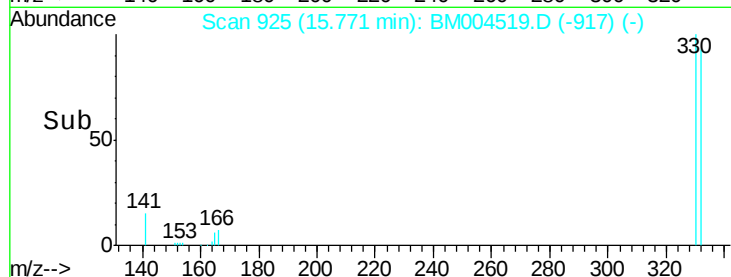
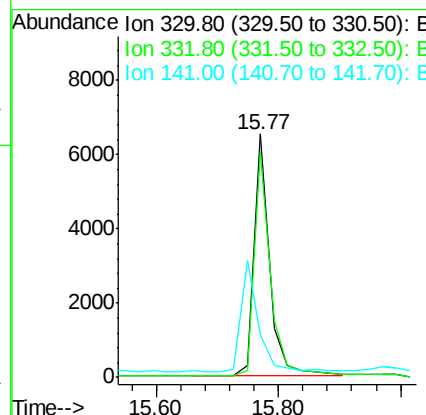
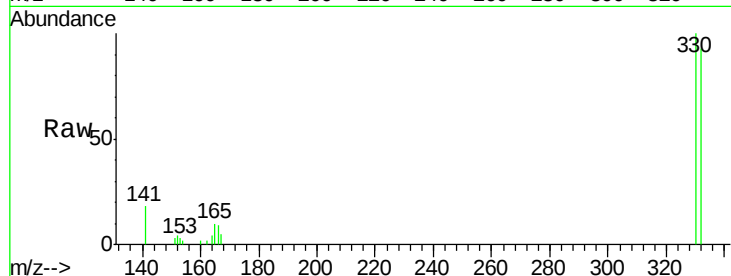




#14
 2,4,6-Tribromophenol
 Concen: 8.44 ng
 RT: 15.77 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: BM004519.D
 Acq: 02 Mar 2016 14:32

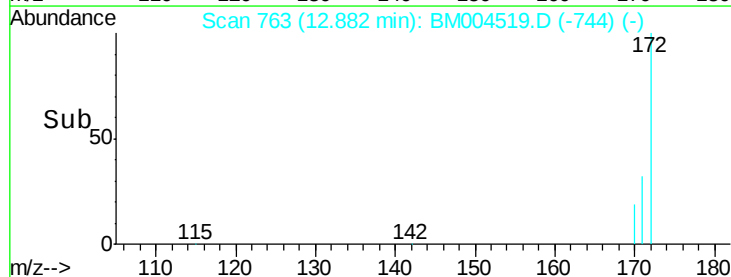
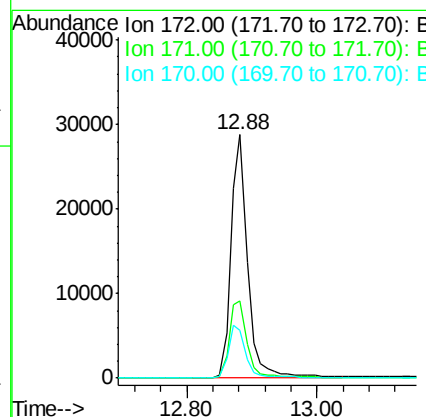
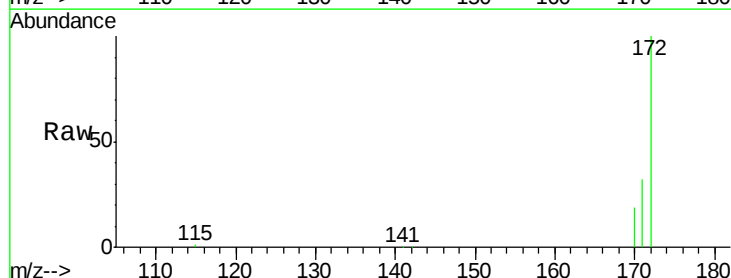
Instrument :
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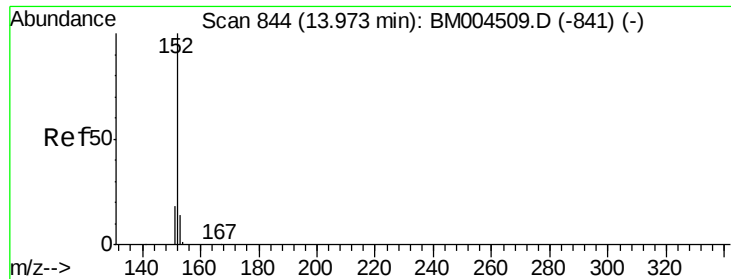
Tot Ion:330 Resp: 11554
 Ion Ratio Lower Upper
 330 100
 332 95.5 76.6 114.8
 141 0.0 0.0 0.0



#15
 2-Fluorobiphenyl
 Concen: 4.36 ng
 RT: 12.88 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: BM004519.D
 Acq: 02 Mar 2016 14:32

Tgt Ion:172 Resp: 50432
 Ion Ratio Lower Upper
 172 100
 171 32.0 29.5 44.3
 170 19.5 20.2 30.2#





#16

Acenaphthylene

Concen: 0.11 ng

RT: 13.97 min Scan# 844

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

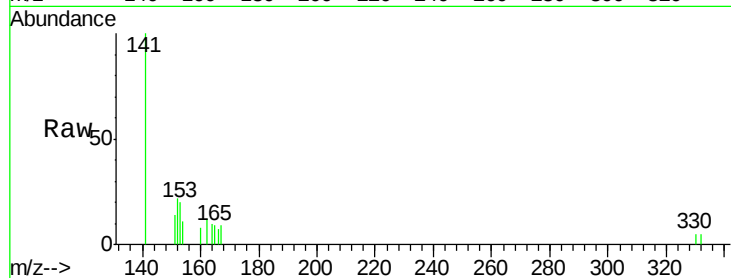
Tot Ion:152 Resp: 229

Ion Ratio Lower Upper

152 100

151 34.5 15.8 23.6#

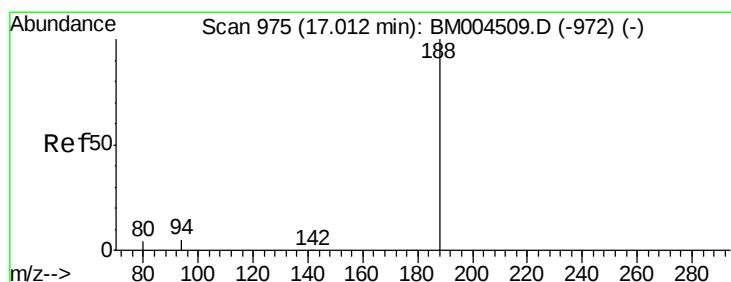
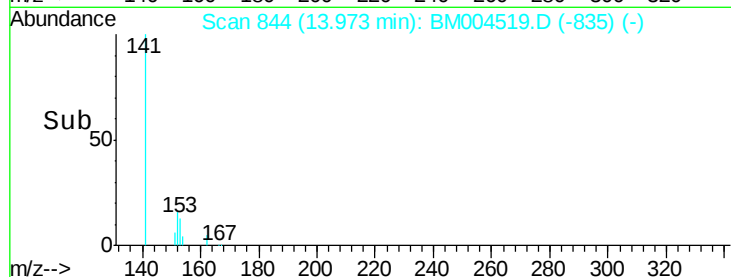
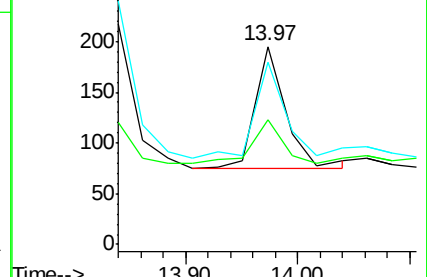
153 93.0 10.2 15.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 975

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

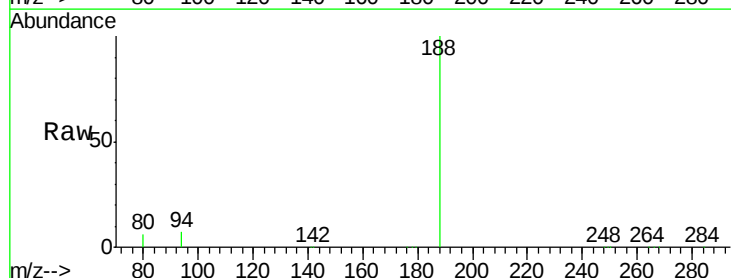
Tgt Ion:188 Resp: 86927

Ion Ratio Lower Upper

188 100

94 6.8 6.3 9.5

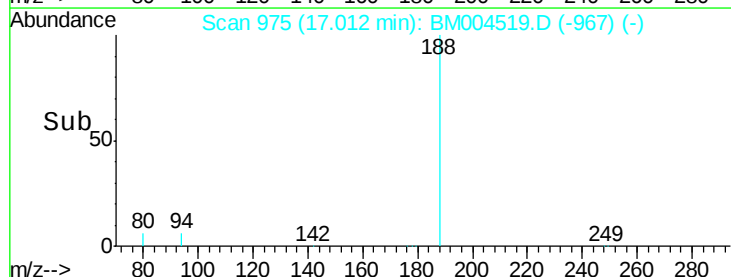
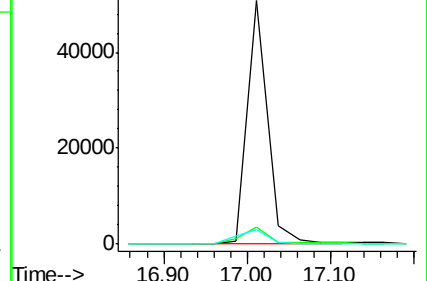
80 6.0 5.9 8.9

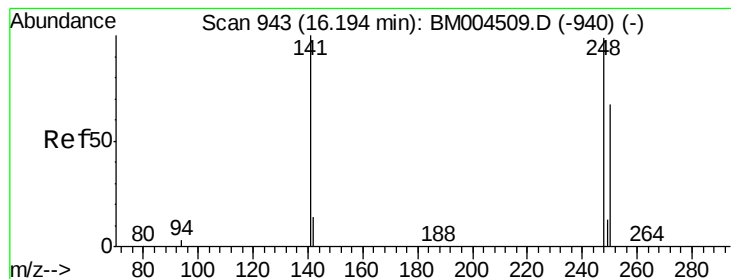


Abundance Ion 188.00 (187.70 to 188.70): E

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: 16.19 min Scan# 943

Delta R.T. -0.03 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampled :

MW-5

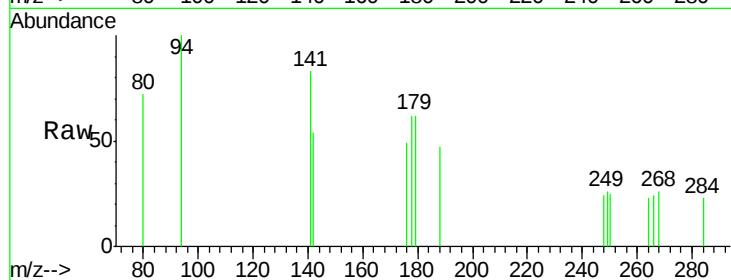
Tot Ion:248 Resp: 8

Ion Ratio Lower Upper

248 100

250 0.0 85.8 128.8#

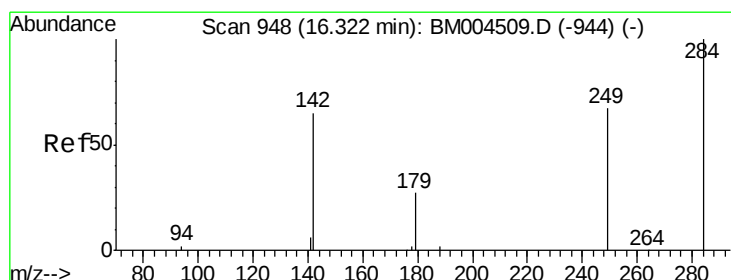
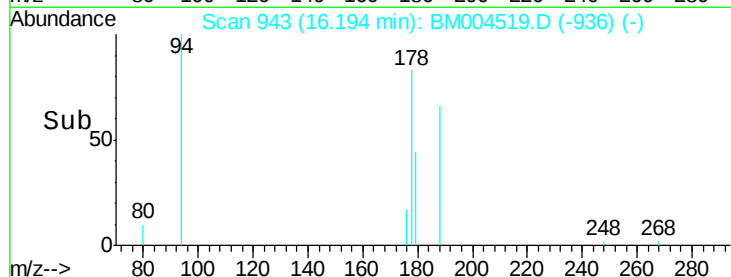
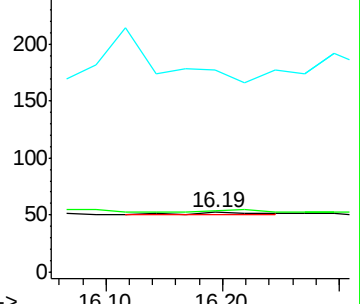
141 0.0 0.0 0.0



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#21

Hexachlorobenzene

Concen: Below Cal

RT: 16.32 min Scan# 948

Delta R.T. -0.03 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

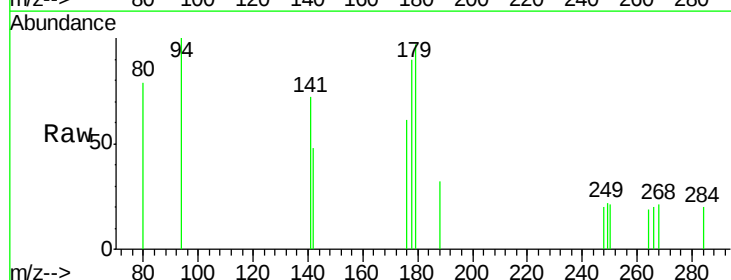
Tgt Ion:284 Resp: 17

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

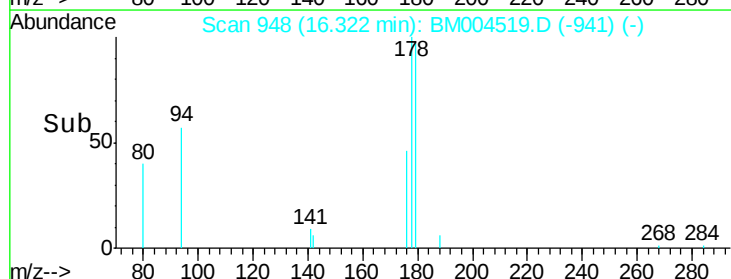
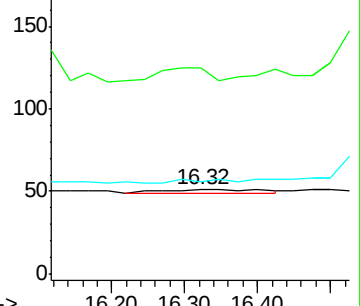
249 0.0 0.0 0.0

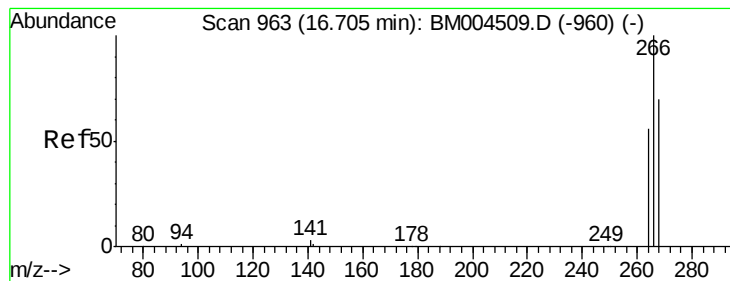


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.27 ng

RT: 16.73 min Scan# 964

Delta R.T. 0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

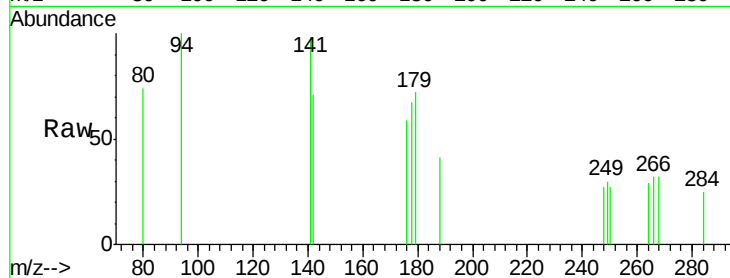
Tot Ion:266 Resp: 58

Ion Ratio Lower Upper

266 100

268 98.4 63.0 94.6#

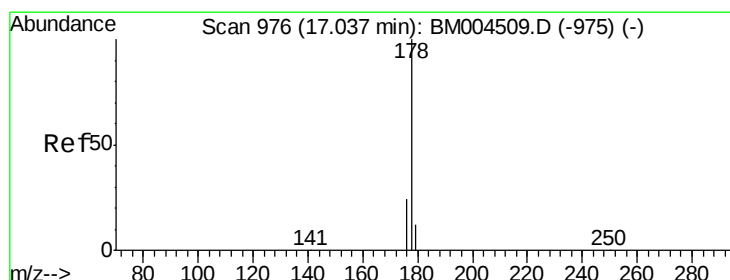
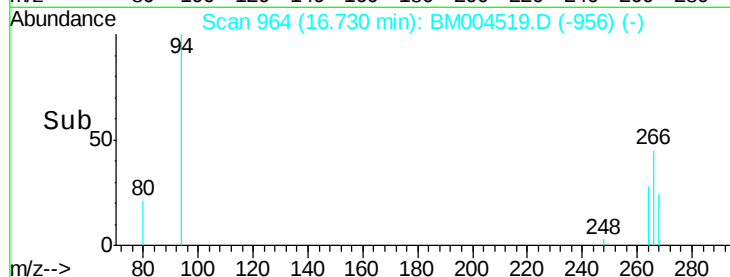
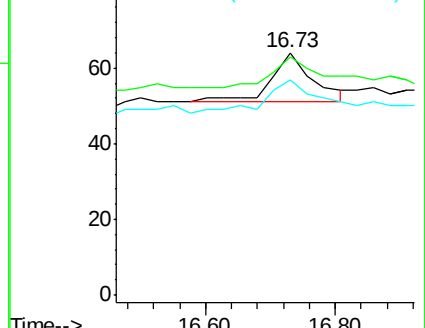
264 89.1 59.6 89.4



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: BM004519.D

Acq: 02 Mar 2016 14:32

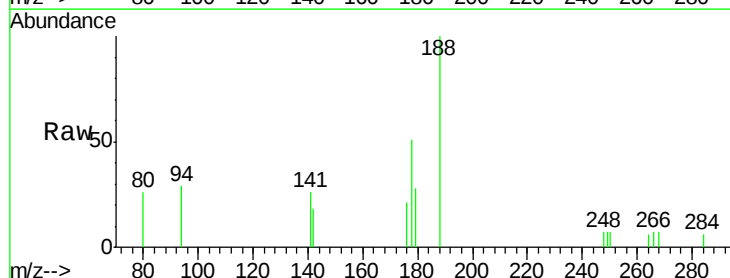
Tgt Ion:178 Resp: 761

Ion Ratio Lower Upper

178 100

176 24.8 15.0 22.4#

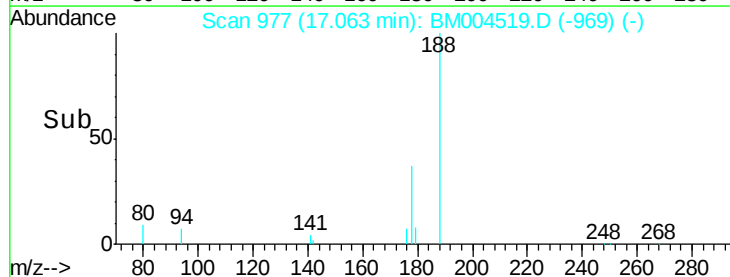
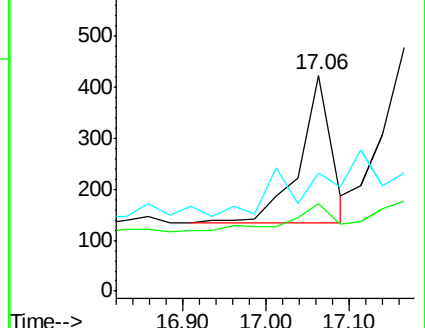
179 0.0 12.8 19.2#

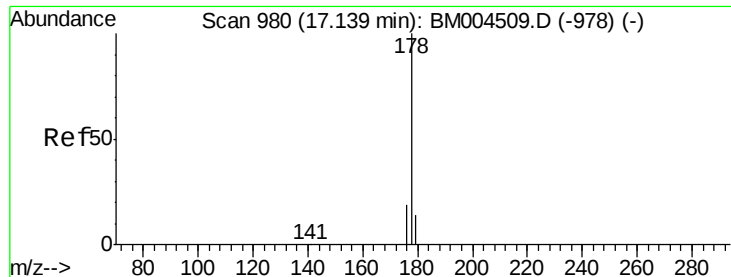


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.23 ng

RT: 17.16 min Scan# 981

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

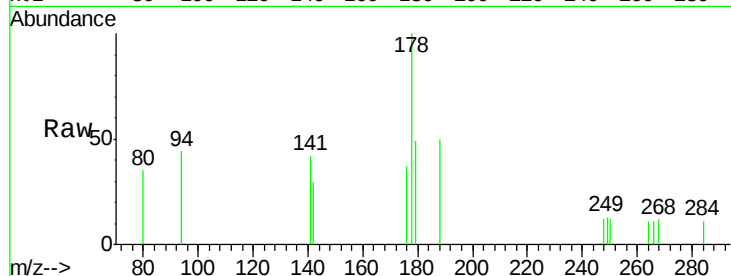
Tot Ion:178 Resp: 1138

Ion Ratio Lower Upper

178 100

176 20.2 14.7 22.1

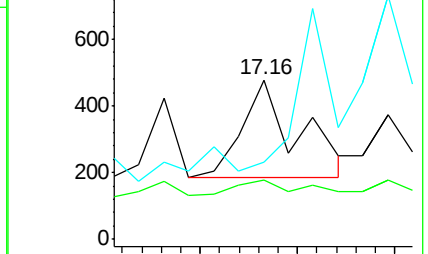
179 0.0 12.2 18.4#



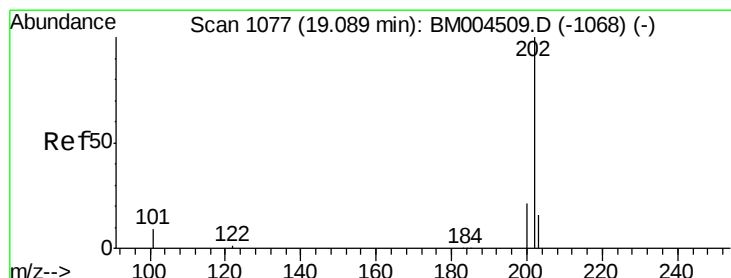
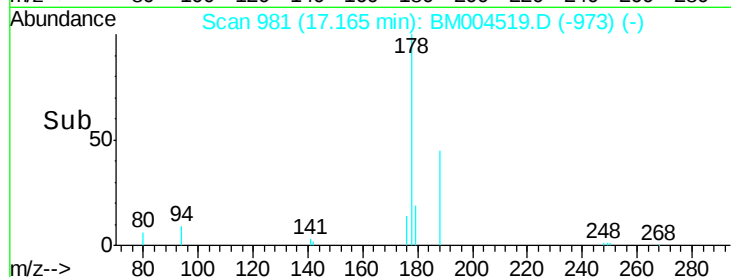
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene

Concen: 0.03 ng

RT: 19.11 min Scan# 1078

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

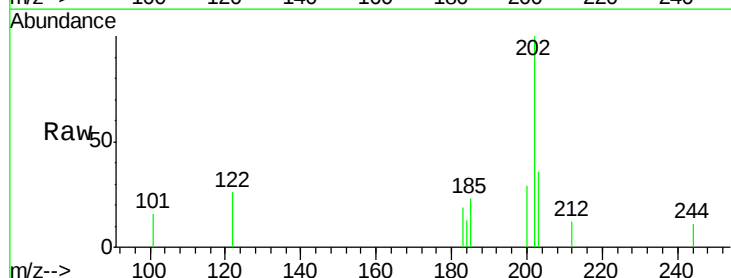
Tgt Ion:202 Resp: 1634

Ion Ratio Lower Upper

202 100

101 13.6 9.8 14.8

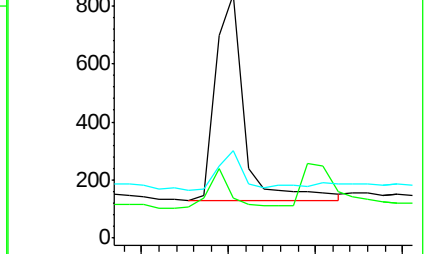
203 16.7 13.8 20.8



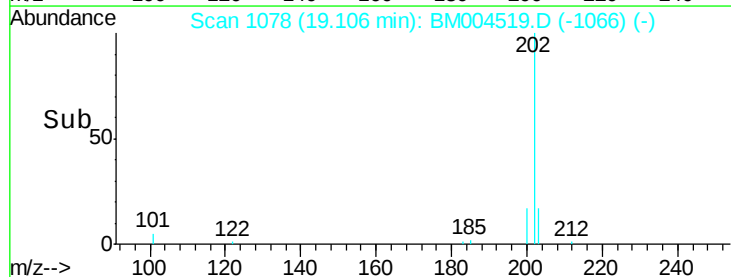
Abundance Ion 202.00 (201.70 to 202.70): E

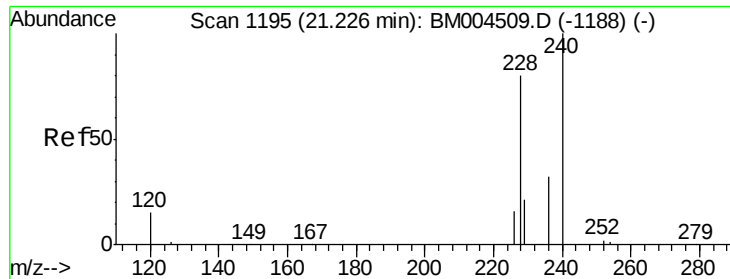
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

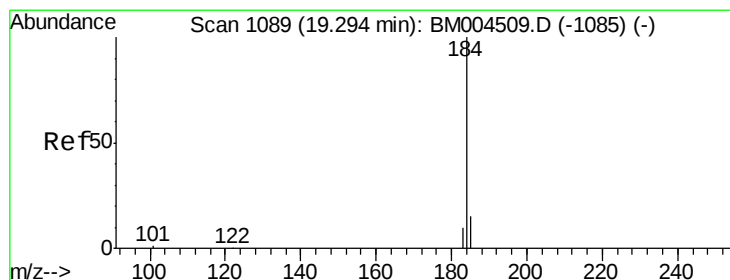
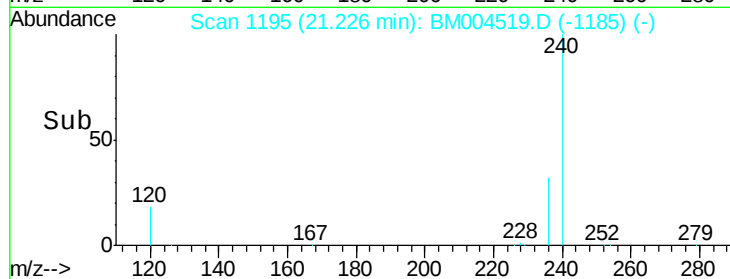
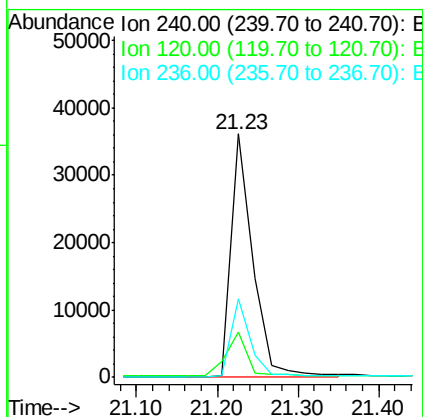
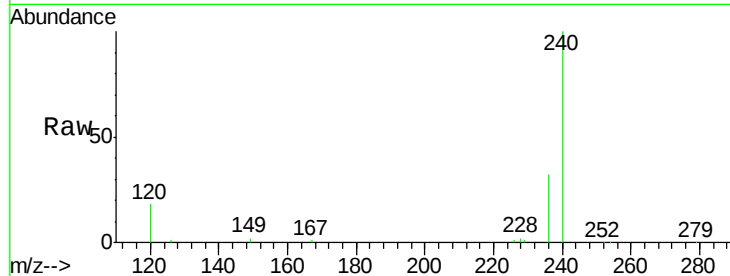




#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.23 min Scan# 1195
Delta R.T. -0.00 min
Lab File: BM004519.D
Acq: 02 Mar 2016 14:32

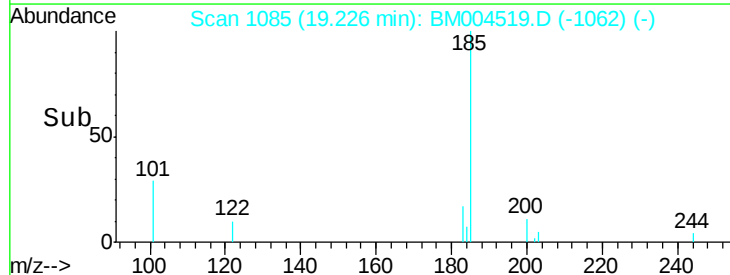
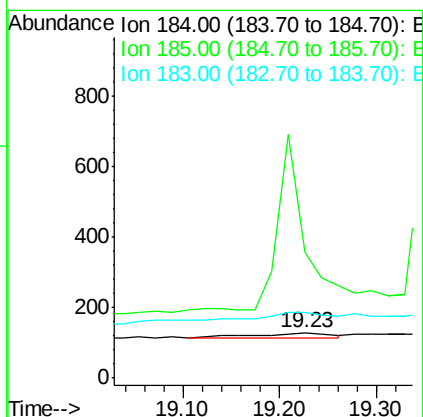
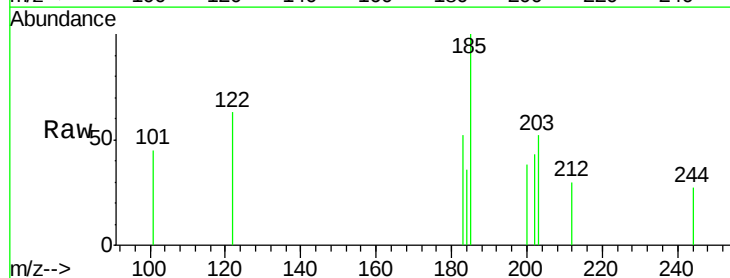
Instrument :
BNA_M
ClientSampleId :
MW-5

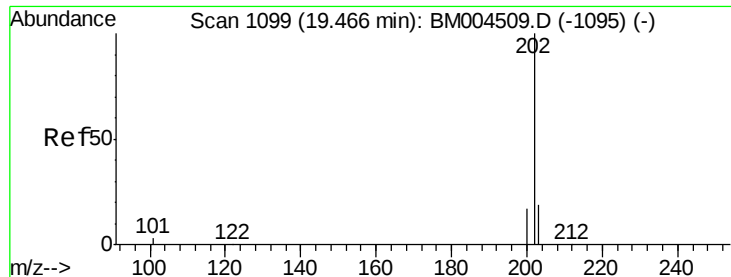
Tot Ion:240 Resp: 67173
Ion Ratio Lower Upper
240 100
120 18.4 18.9 28.3#
236 32.4 26.4 39.6



#27
Benzidine
Concen: 0.36 ng
RT: 19.23 min Scan# 1085
Delta R.T. -0.10 min
Lab File: BM004519.D
Acq: 02 Mar 2016 14:32

Tgt Ion:184 Resp: 87
Ion Ratio Lower Upper
184 100
185 276.7 15.0 22.4#
183 143.4 12.6 19.0#





#28

Pvrene

Concen: 0.06 ng

RT: 19.47 min Scan# 1099

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

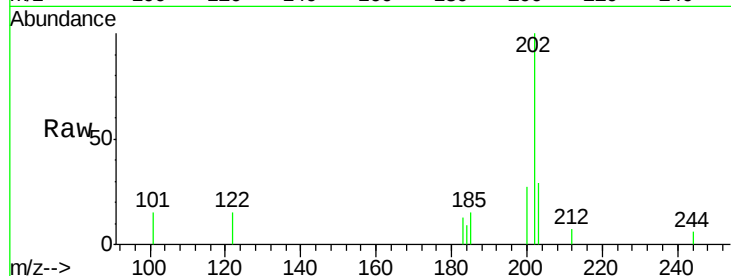
Tot Ion:202 Resp: 2172

Ion Ratio Lower Upper

202 100

200 21.6 16.6 25.0

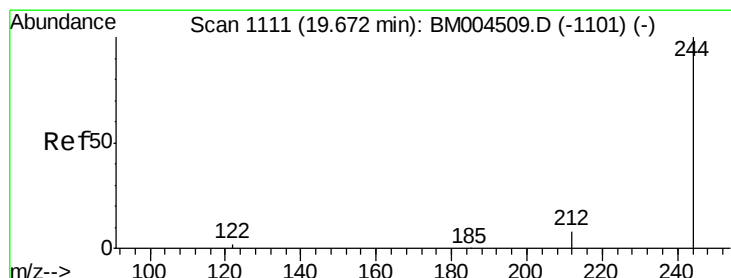
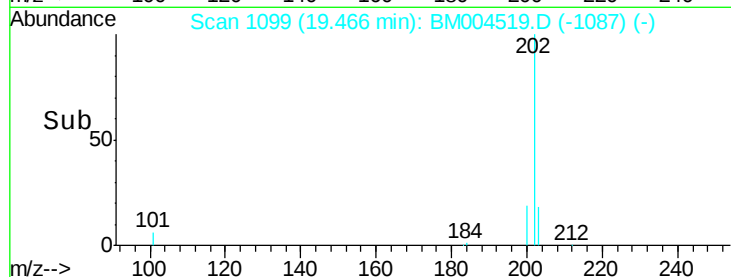
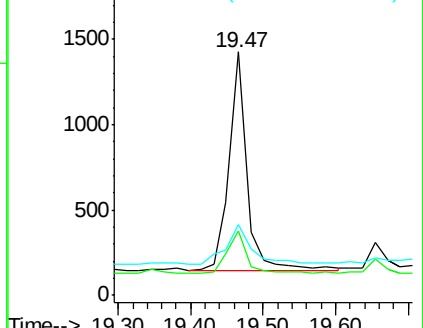
203 25.3 13.7 20.5#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 4.75 ng

RT: 19.67 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

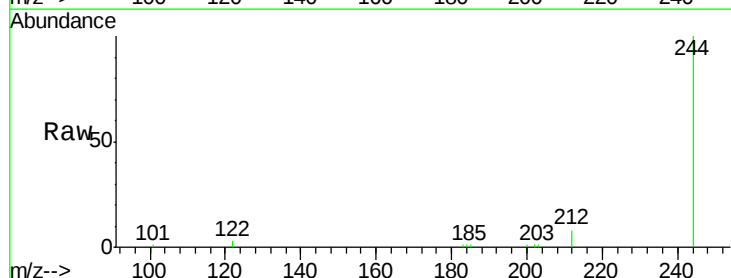
Tgt Ion:244 Resp: 47351

Ion Ratio Lower Upper

244 100

212 8.4 7.8 11.6

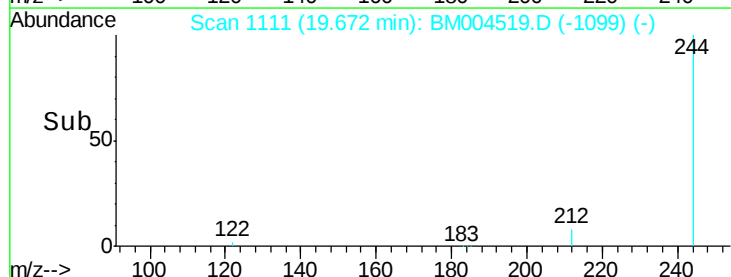
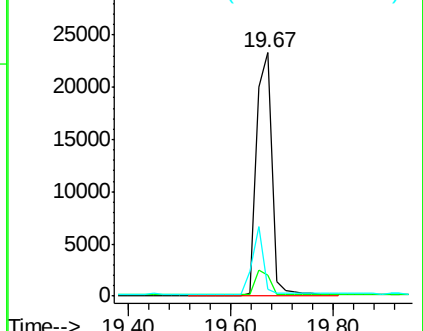
122 2.8 7.0 10.4#

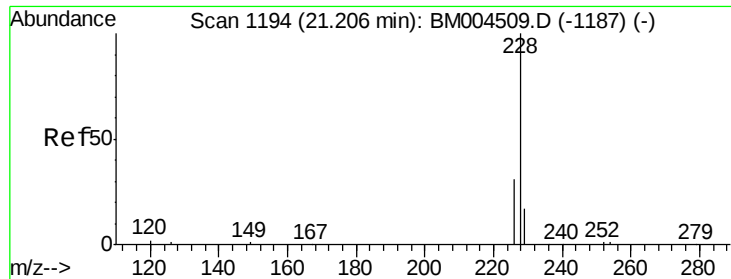


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.18 ng

RT: 21.27 min Scan# 1197

Delta R.T. 0.06 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

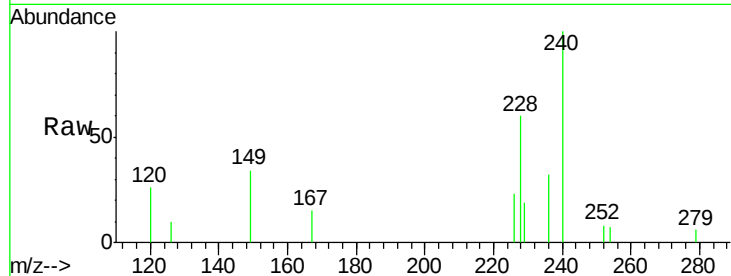
Tot Ion:228 Resp: 2992

Ion Ratio Lower Upper

228 100

226 38.9 27.0 40.4

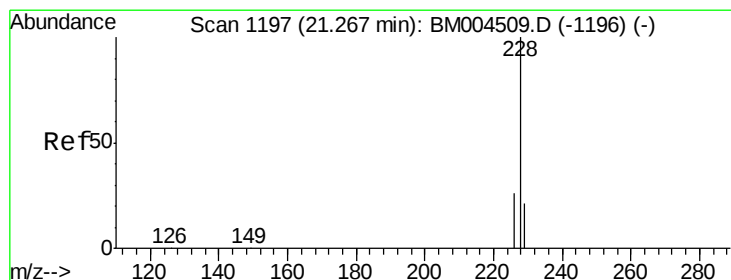
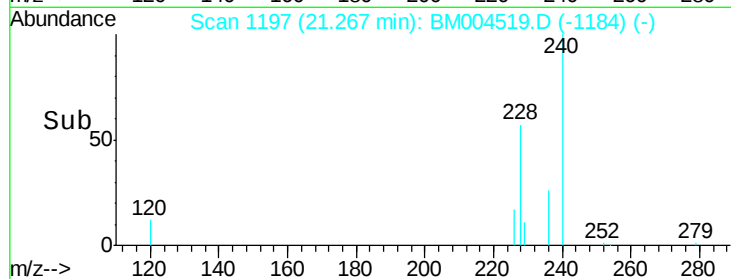
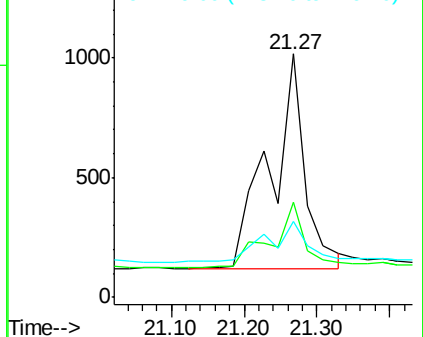
229 31.3 13.1 19.7#



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



#32

Chrysene

Concen: Below Cal

RT: 21.27 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

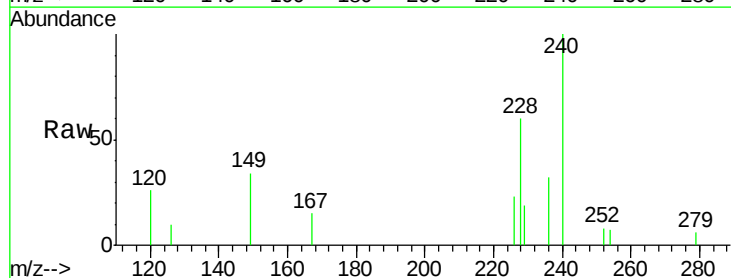
Tgt Ion:228 Resp: 3099

Ion Ratio Lower Upper

228 100

226 38.9 24.6 37.0#

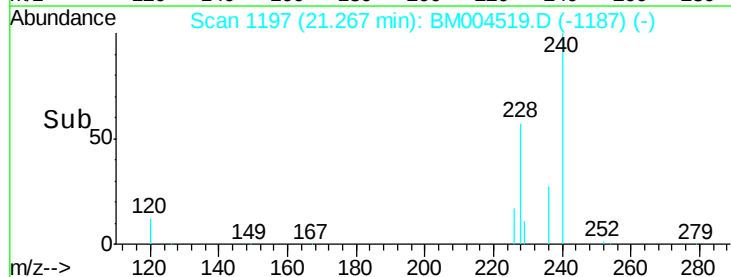
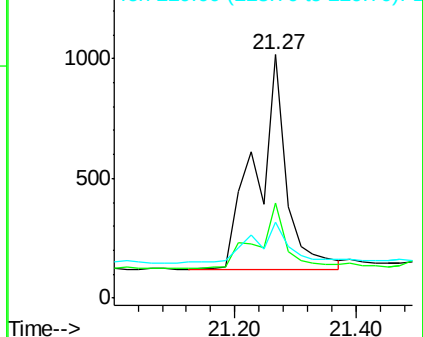
229 31.3 15.2 22.8#

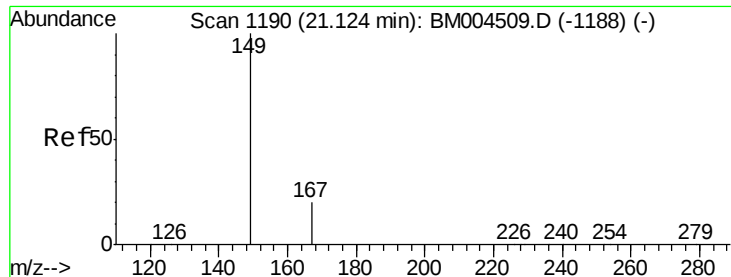


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Bis(2-ethylhexyl)phthalate

Concen: 0.27 ng

RT: 21.12 min Scan# 1190

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

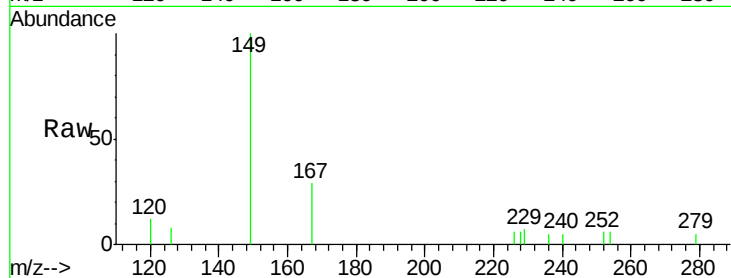
Tot Ion:149 Resp: 2204

Ion Ratio Lower Upper

149 100

167 24.1 20.2 30.4

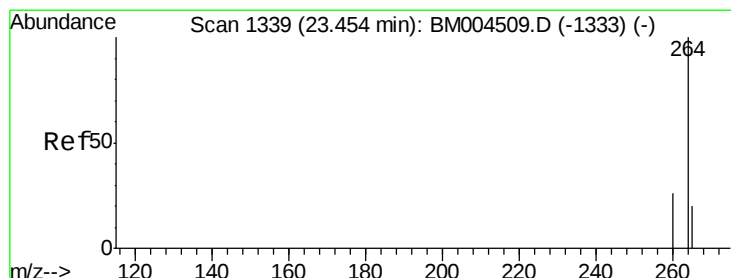
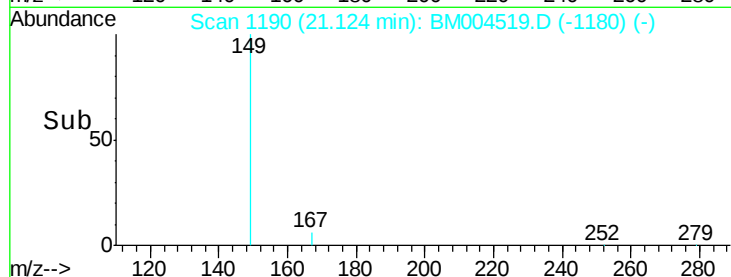
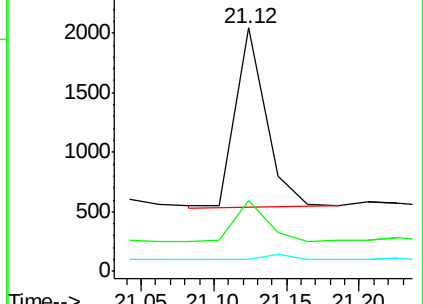
279 0.0 0.0 0.0



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

Perylene-d12

Concen: 5.00 ng

RT: 23.45 min Scan# 1339

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

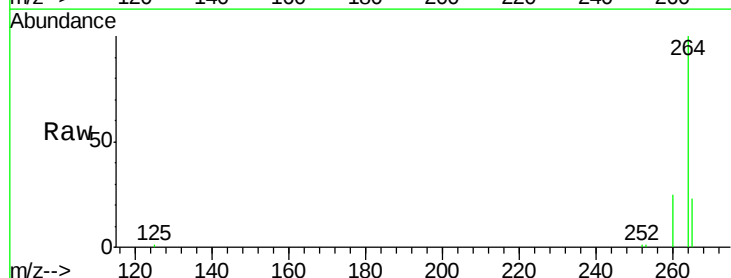
Tgt Ion:264 Resp: 63156

Ion Ratio Lower Upper

264 100

260 25.3 21.2 31.8

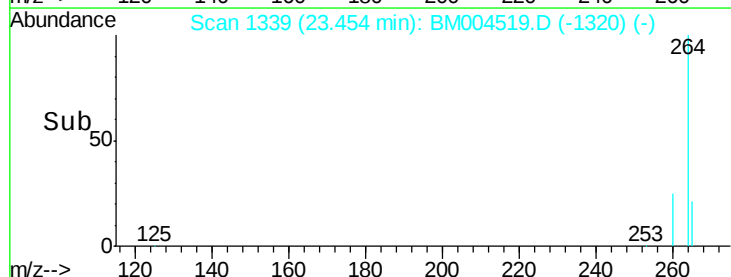
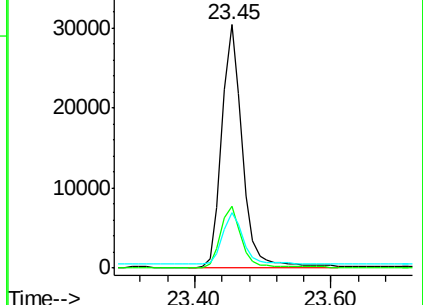
265 22.9 17.4 26.0

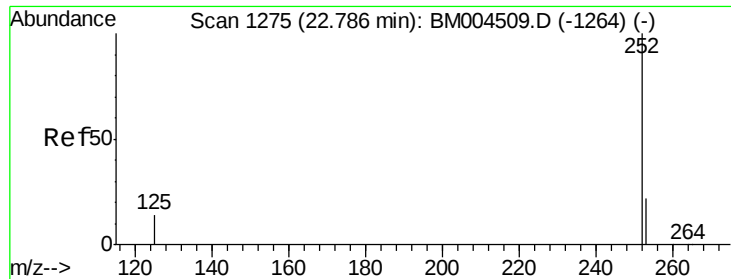


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#36

Benzo(b)fluoranthene

Concen: Below Cal

RT: 22.80 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

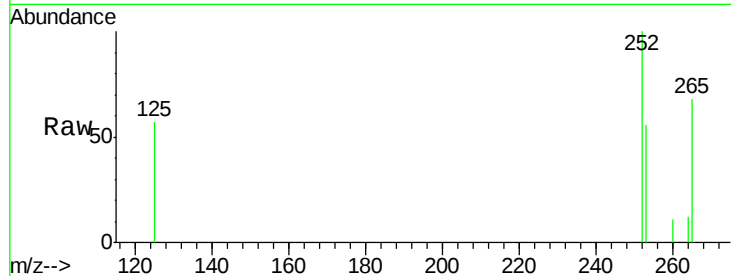
Tot Ion:252 Resp: 2196

Ion Ratio Lower Upper

252 100

253 55.9 19.0 28.4#

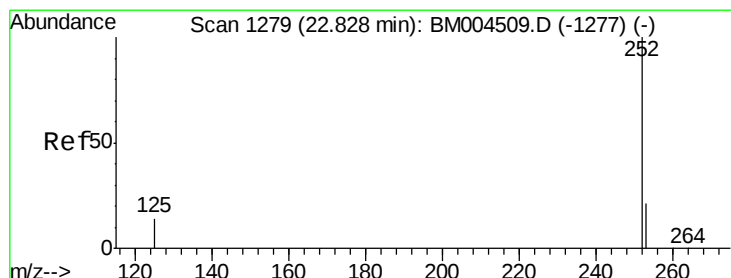
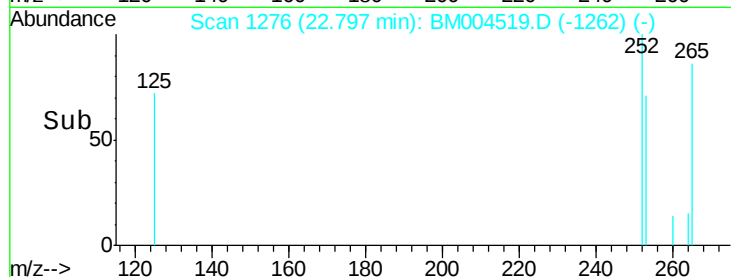
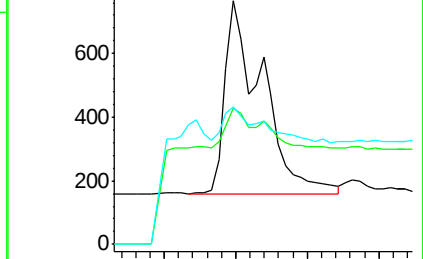
125 56.7 11.7 17.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(k)fluoranthene

Concen: 0.06 ng

RT: 22.80 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

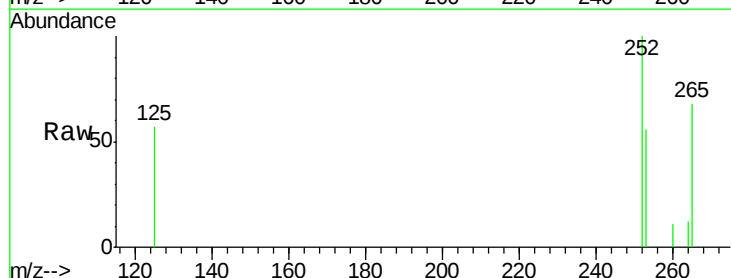
Tgt Ion:252 Resp: 2196

Ion Ratio Lower Upper

252 100

253 55.9 18.9 28.3#

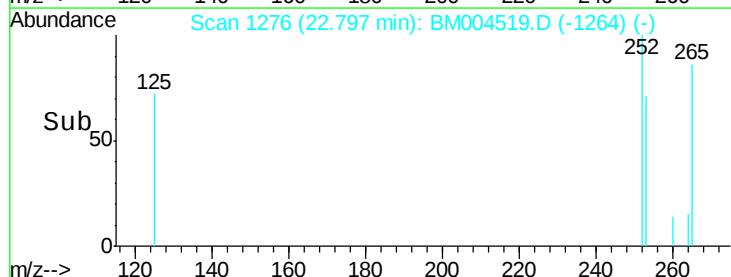
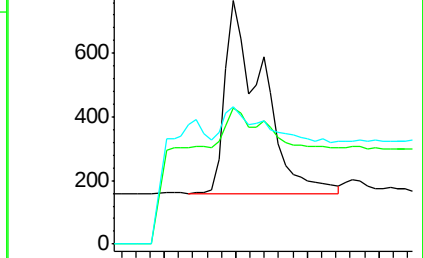
125 56.7 11.9 17.9#

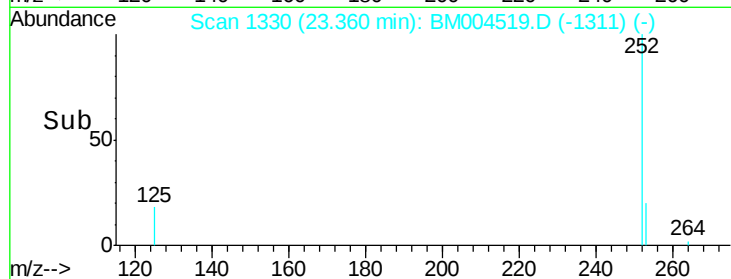
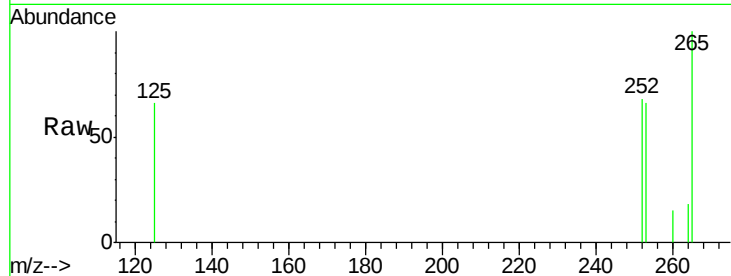
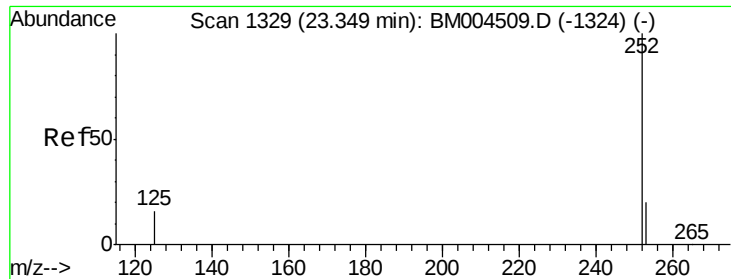


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 0.02 ng

RT: 23.36 min Scan# 1330

Delta R.T. -0.00 min

Lab File: BM004519.D

Acq: 02 Mar 2016 14:32

Instrument :

BNA_M

ClientSampleId :

MW-5

Tot Ion: 252 Resp: 398

Ion Ratio Lower Upper

252 100

253 96.1 19.0 28.6#

125 96.4 13.7 20.5#

