

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM073015\
 Data File : BM002139.D
 Acq On : 30 Jul 2015 16:42
 Operator : TP/UM
 Sample : G3048-07RE
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01X0RE

Quant Time: Jul 31 01:30:00 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jul 31 01:27:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	196348	20.00	ng/ul	0.01
18) Naphthalene-d8	10.39	136	797058	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.27	164	429314	20.00	ng/ul	0.02
62) Phenanthrene-d10	17.02	188	850884	20.00	ng/ul	0.02
78) Chrysene-d12	21.23	240	988736	20.00	ng/ul	0.03
86) Perylene-d12	23.45	264	975150	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.06	96	7059	1.86	ng/uL	0.00
5) Phenol-d5	6.79	99	176935	12.61	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.93	67	107870	13.90	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	158997	13.36	ng/ul	0.01
13) 4-Methylphenol-d8	8.32	113	103700	9.29	ng/ul	0.02
19) Nitrobenzene-d5	8.76	128	78501	13.86	ng/ul	0.00
22) 2-Nitrophenol-d4	9.47	143	84014	13.34	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.02	165	148796	12.27	ng/ul	0.02
29) 4-Chloroaniline-d4	10.53	131	52752	3.96	ng/ul	0.01
44) Dimethylphthalate-d6	13.68	166	430643	13.69	ng/ul	0.01
47) Acenaphthylene-d8	13.96	160	495704	12.61	ng/ul	0.01
52) 4-Nitrophenol-d4	14.50	143	30490	5.81	ng/ul	0.02
58) Fluorene-d10	15.27	176	340756	12.32	ng/ul	0.02
63) 4,6-Dinitro-2-methylphenol	15.42	200	9025	1.73	ng/ul	0.03
71) Anthracene-d10	17.12	188	476460	12.54	ng/ul	0.02
79) Pyrene-d10	19.43	212	525523	12.63	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.31	264	536071	11.34	ng/ul	0.05

Target Compounds

						Qvalue
28) Naphthalene	10.44	128	100273	2.65	ng/ul	98
34) 2-Methylnaphthalene	12.06	142	54173	1.97	ng/ul	100
35) 1-Methylnaphthalene	12.29	142	42447	1.60	ng/ul#	96
45) Dimethylphthalate	13.73	163	192728	6.14	ng/ul	100
48) Acenaphthylene	13.99	152	82244	2.03	ng/ul#	86
50) Acenaphthene	14.33	153	83124	3.13	ng/ul	98
54) Dibenzofuran	14.67	168	73653	1.93	ng/ul#	86
59) Fluorene	15.32	166	135197	4.29	ng/ul#	94
70) Phenanthrene	17.07	178	1688613	38.31	ng/ul	99
72) Anthracene	17.16	178	379039	8.41	ng/ul	98
75) Carbazole	17.43	167	97938	2.54	ng/ul#	80
76) Di-n-butylphthalate	17.99	149	102252	2.23	ng/ul#	88
77) Fluoranthene	19.10	202	2397411	47.11	ng/ul	99
80) Pyrene	19.47	202	2392513	44.47	ng/ul	98
83) Benzo(a)anthracene	21.22	228	1272495	23.22	ng/ul	96
84) Bis(2-ethylhexyl)phthalate	21.13	149	67791	2.15	ng/ul#	79
85) Chrysene	21.27	228	1237053	24.12	ng/ul	96
88) Benzo(b)fluoranthene	22.79	252	1548109	28.25	ng/ul#	94
89) Benzo(k)fluoranthene	22.95	252	209701	3.97	ng/ul#	79
91) Benzo(a)pyrene	23.36	252	1092919	20.66	ng/ul#	96
92) Indeno(1,2,3-cd)pyrene	25.69	276	725653	11.91	ng/ul	96
93) Dibenzo(a,h)anthracene	25.68	278	211635	4.06	ng/ul#	87
94) Benzo(g,h,i)perylene	26.38	276	670164	13.12	ng/ul	96

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Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 31 01:27:14 2015
Response via : Initial Calibration

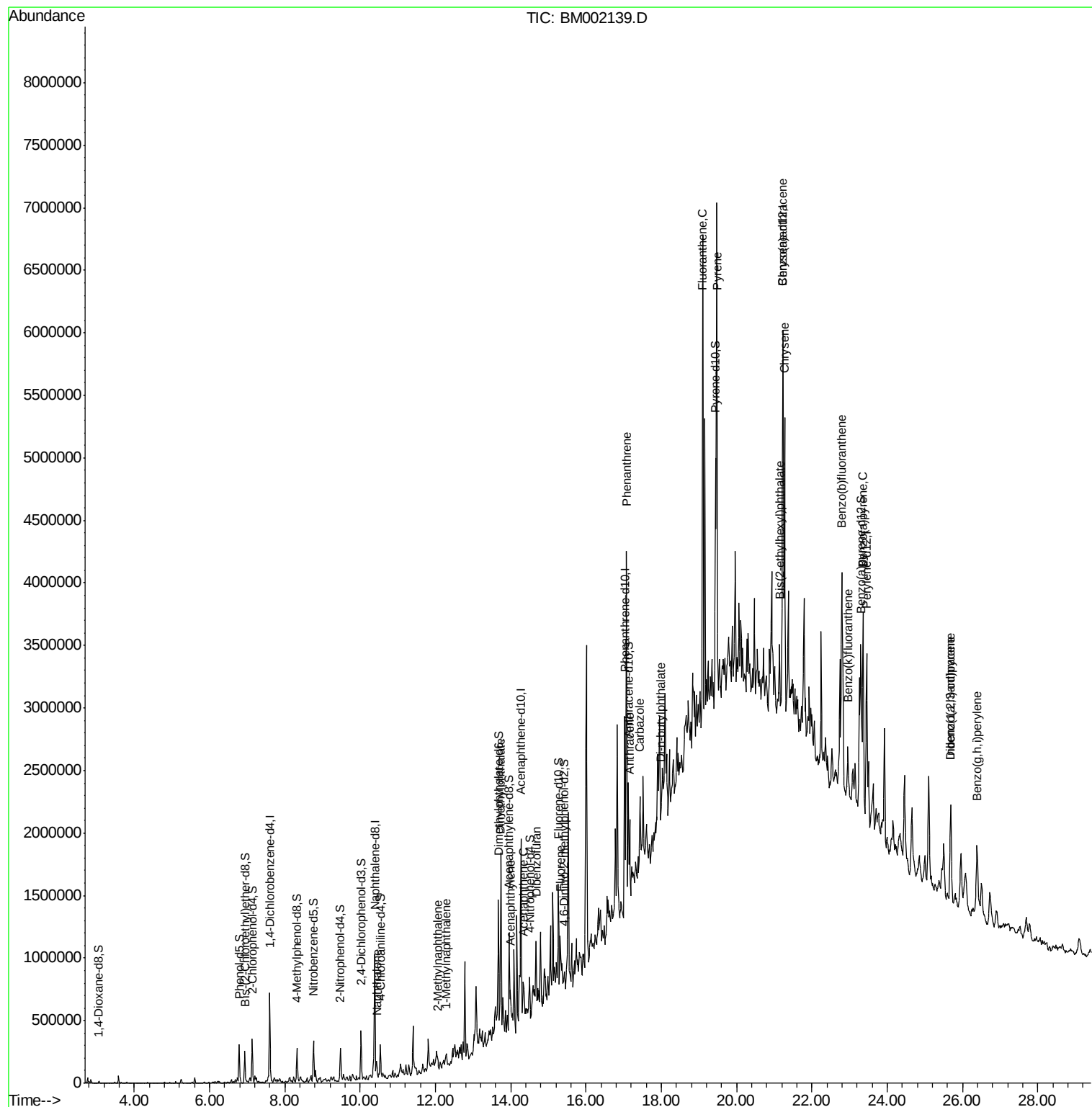
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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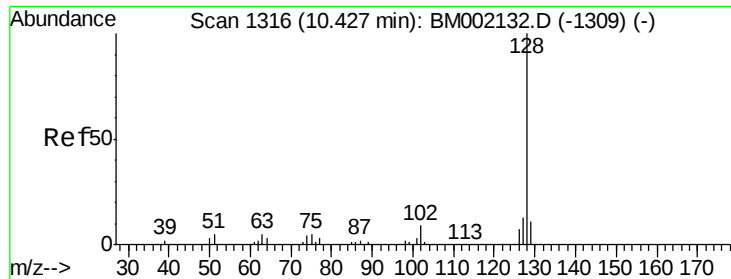
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : G3048-07RE
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ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
C01X0RE

Quant Time: Jul 31 01:30:00 2015
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Quant Title : SVOA CALIBRATION
QLast Update : Fri Jul 31 01:27:14 2015
Response via : Initial Calibration

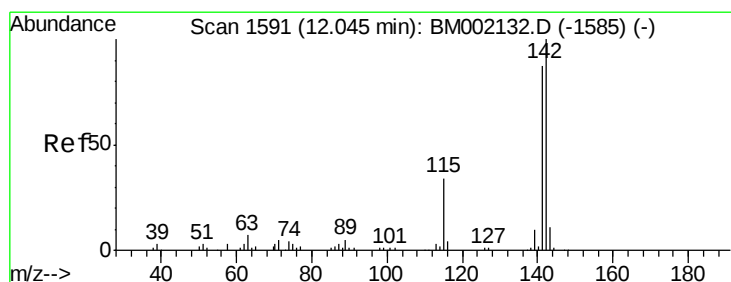
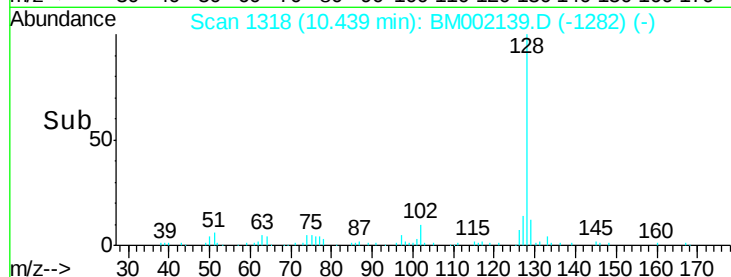
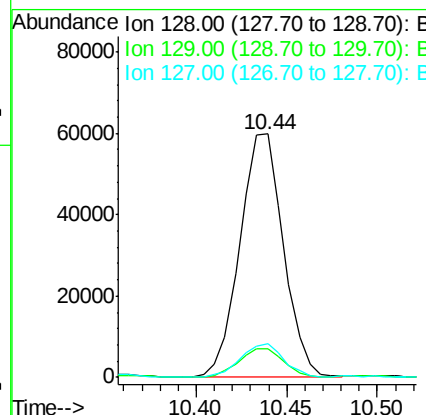
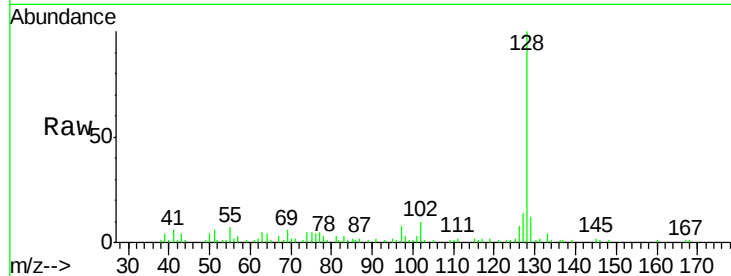




#28
Naphthalene
Concen: 2.65 ng/ul
RT: 10.44 min Scan# 1318
Delta R.T. 0.01 min
Lab File: BM002139.D
Acq: 30 Jul 2015 16:42

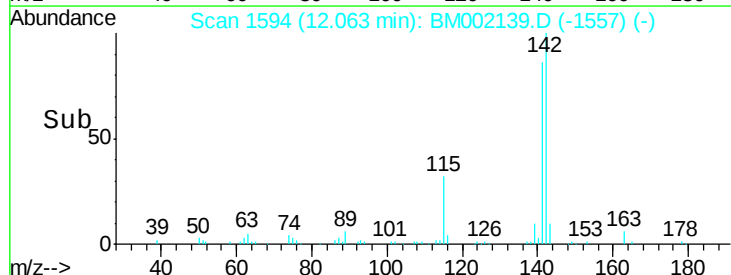
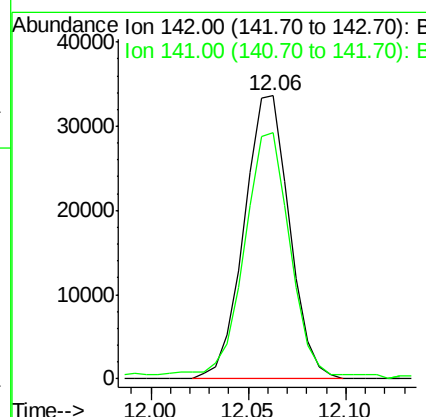
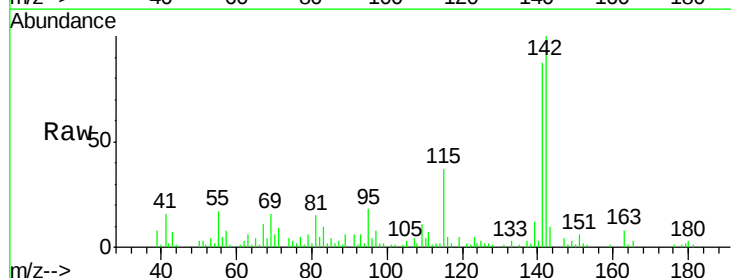
Instrument :
BNA_M
ClientSampleId :
C01X0RE

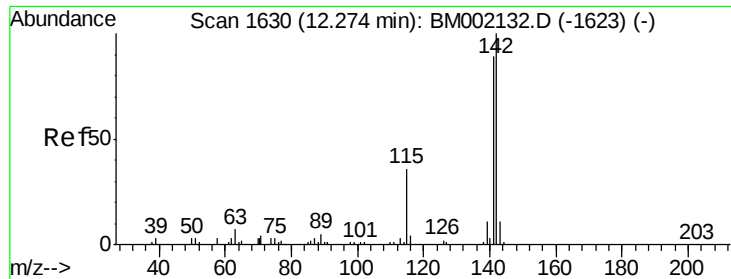
Tgt Ion:128 Resp: 100273
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.4
127 13.8 10.2 15.4



#34
2-Methylnaphthalene
Concen: 1.97 ng/ul
RT: 12.06 min Scan# 1594
Delta R.T. 0.02 min
Lab File: BM002139.D
Acq: 30 Jul 2015 16:42

Tgt Ion:142 Resp: 54173
Ion Ratio Lower Upper
142 100
141 87.2 69.8 104.6

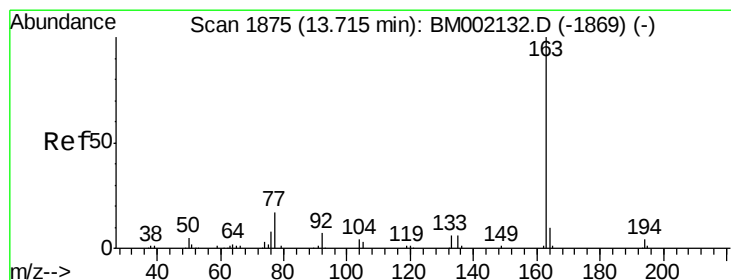
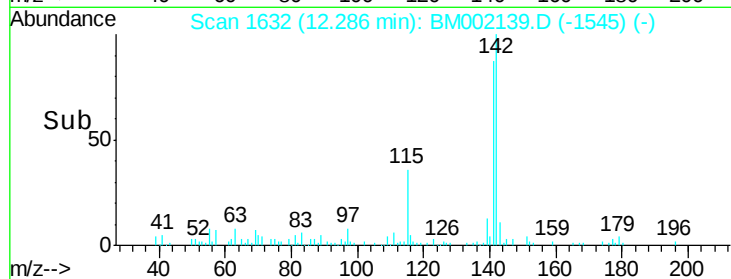
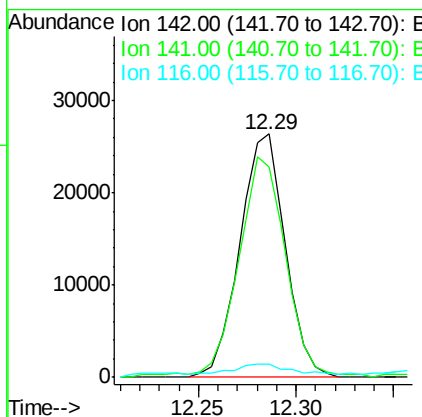
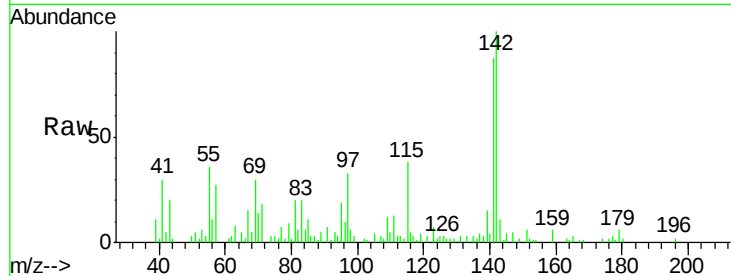




#35
 1-Methylnaphthalene
 Concen: 1.60 ng/ul
 RT: 12.29 min Scan# 1632
 Delta R.T. 0.01 min
 Lab File: BM002139.D
 Acq: 30 Jul 2015 16:42

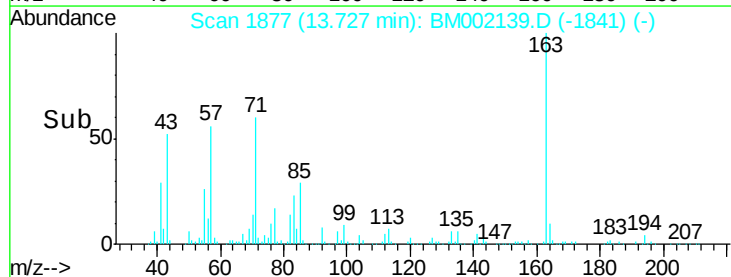
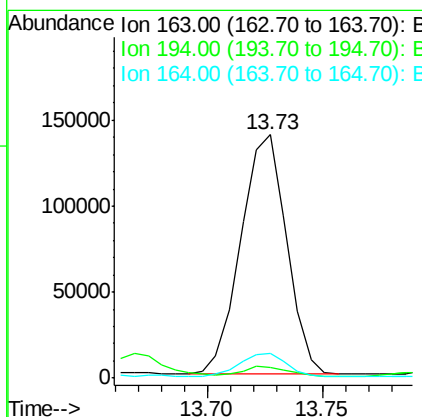
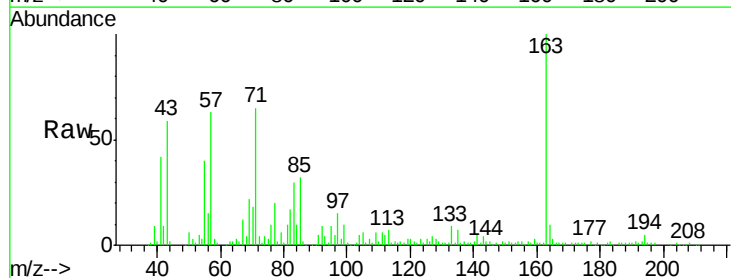
Instrument :
 BNA_M
 ClientSampleId :
 C01X0RE

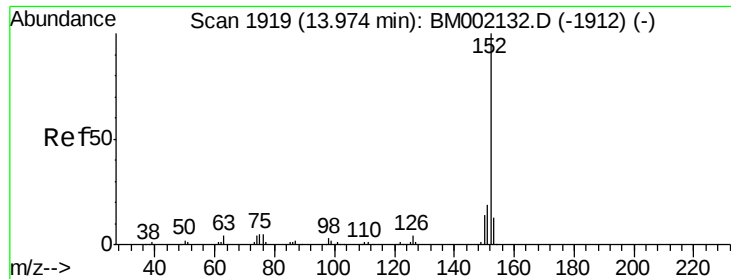
Tgt Ion:142 Resp: 42447
 Ion Ratio Lower Upper
 142 100
 141 86.6 72.4 108.6
 116 5.3 3.2 4.8#



#45
 Dimethylphthalate
 Concen: 6.14 ng/ul
 RT: 13.73 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: BM002139.D
 Acq: 30 Jul 2015 16:42

Tgt Ion:163 Resp: 192728
 Ion Ratio Lower Upper
 163 100
 194 4.6 3.5 5.3
 164 10.1 8.0 12.0





#48

Acenaphthylene

Concen: 2.03 ng/ul

RT: 13.99 min Scan# 1921

Delta R.T. 0.01 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

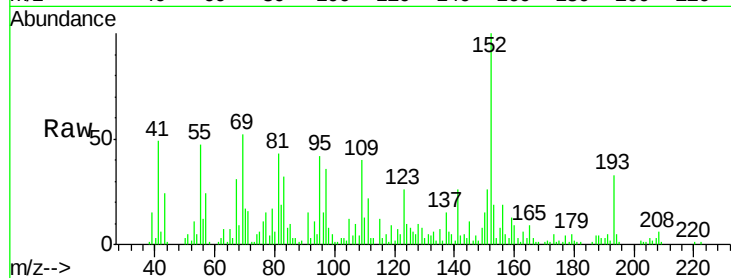
Tgt Ion:152 Resp: 82244

Ion Ratio Lower Upper

152 100

151 25.9 15.6 23.4#

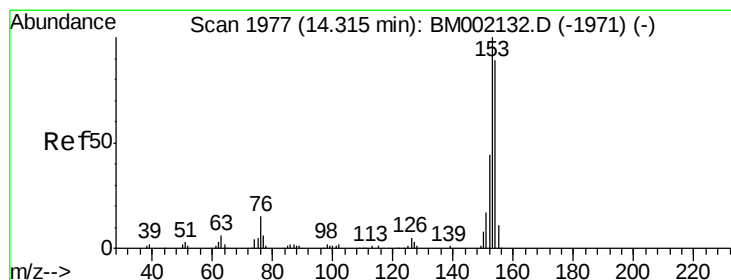
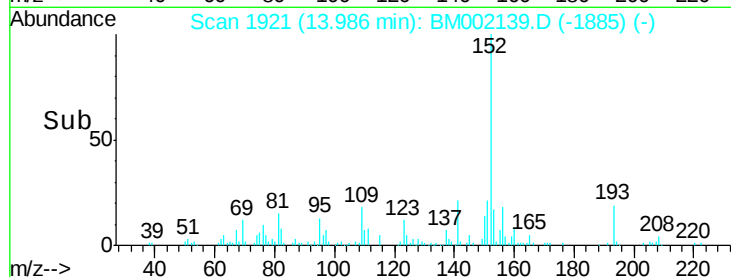
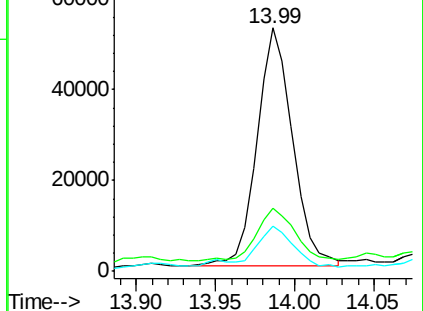
153 18.6 10.3 15.5#



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



#50

Acenaphthene

Concen: 3.13 ng/ul

RT: 14.33 min Scan# 1980

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

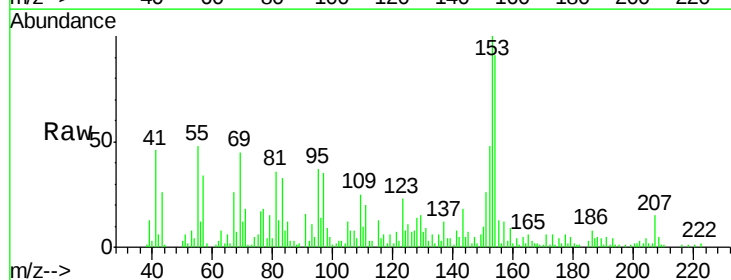
Tgt Ion:153 Resp: 83124

Ion Ratio Lower Upper

153 100

152 48.4 37.3 55.9

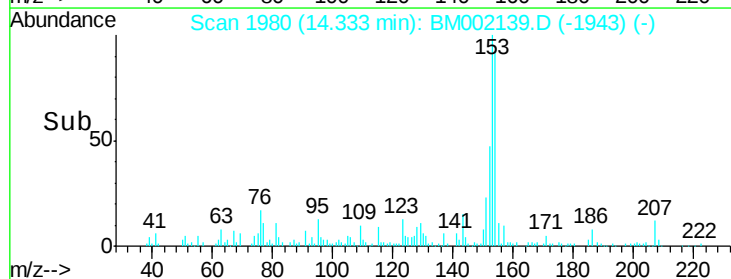
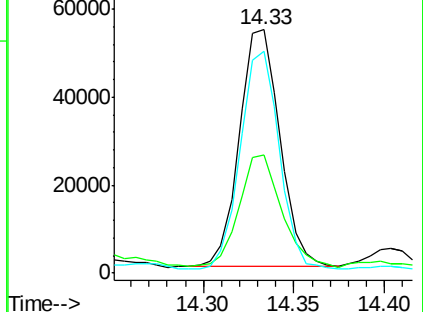
154 91.3 71.4 107.2

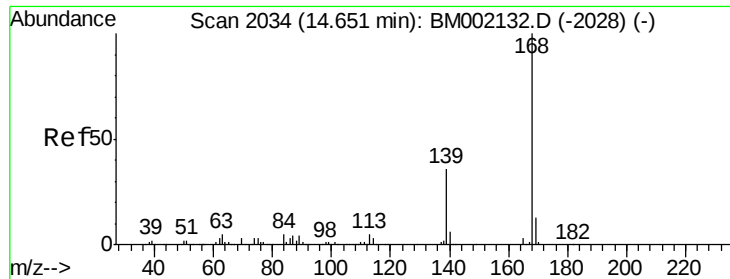


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 1.93 ng/ul

RT: 14.67 min Scan# 2037

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

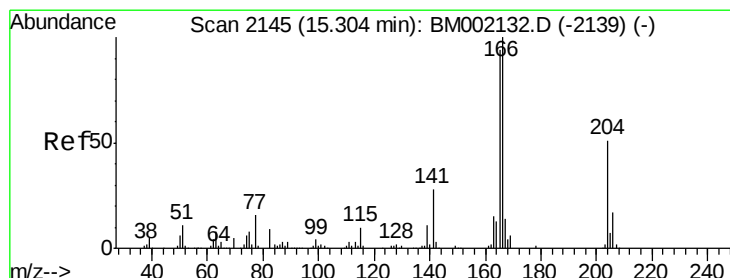
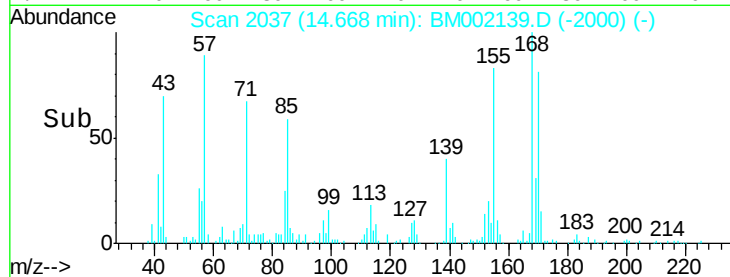
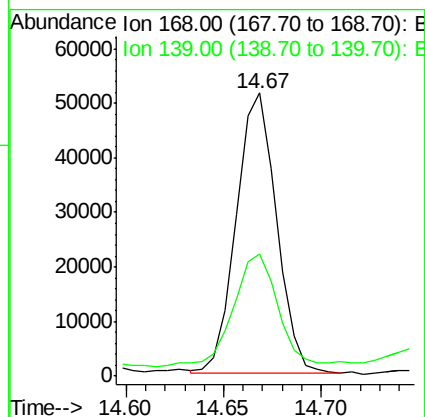
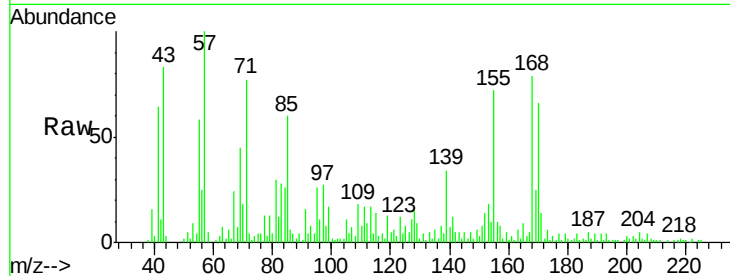
C01X0RE

Tgt Ion:168 Resp: 73653

Ion Ratio Lower Upper

168 100

139 43.3 28.2 42.2#



#59

Fluorene

Concen: 4.29 ng/ul

RT: 15.32 min Scan# 2148

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

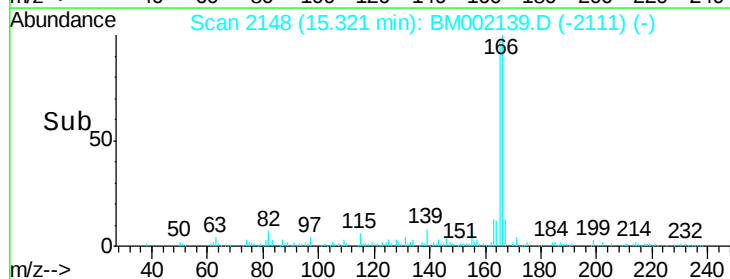
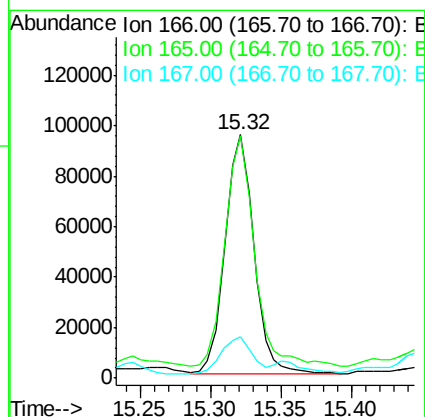
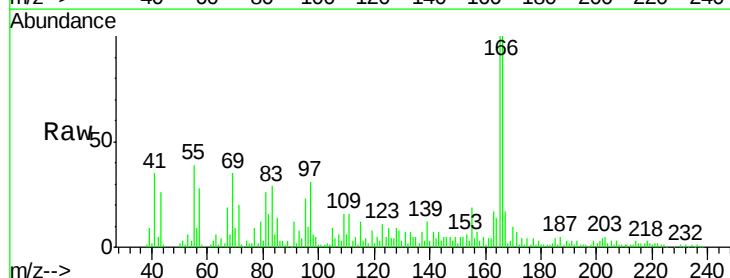
Tgt Ion:166 Resp: 135197

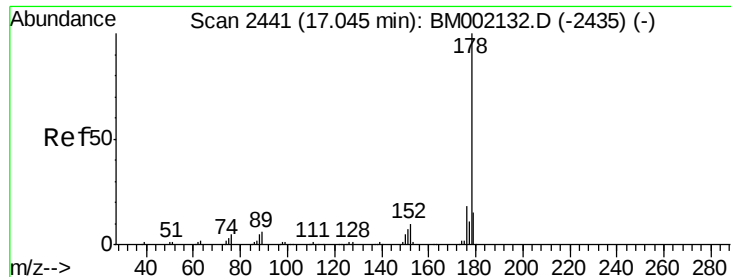
Ion Ratio Lower Upper

166 100

165 99.8 75.6 113.4

167 16.9 10.5 15.7#





#70

Phenanthrene

Concen: 38.31 ng/ul

RT: 17.07 min Scan# 2445

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

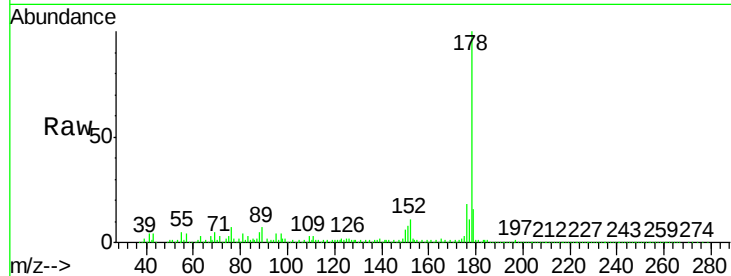
Tgt Ion:178 Resp: 1688613

Ion Ratio Lower Upper

178 100

179 16.0 12.5 18.7

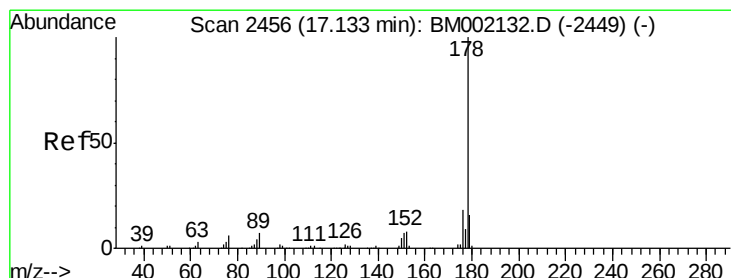
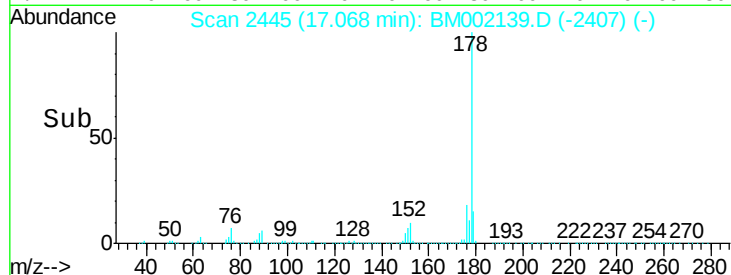
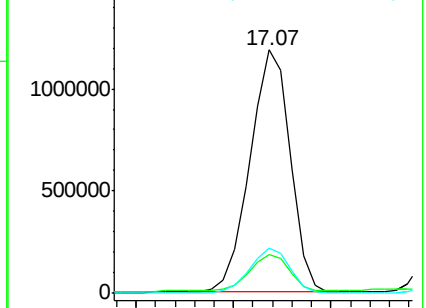
176 18.4 14.2 21.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 8.41 ng/ul

RT: 17.16 min Scan# 2460

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

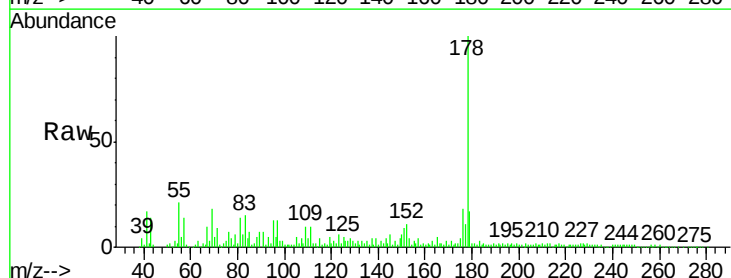
Tgt Ion:178 Resp: 379039

Ion Ratio Lower Upper

178 100

179 17.1 12.1 18.1

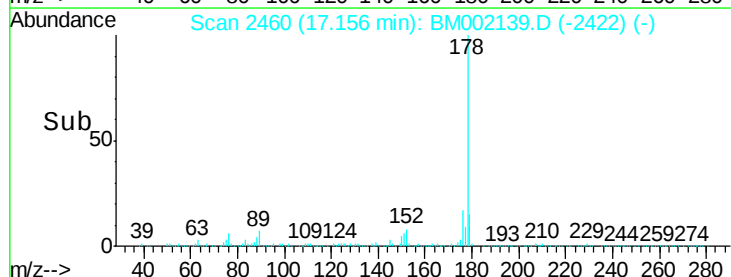
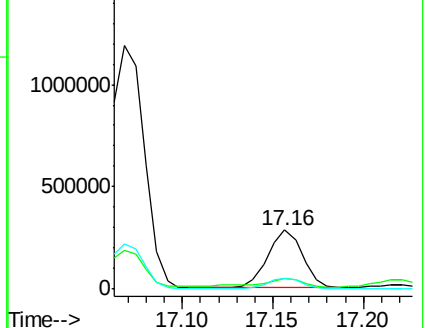
176 17.7 14.1 21.1

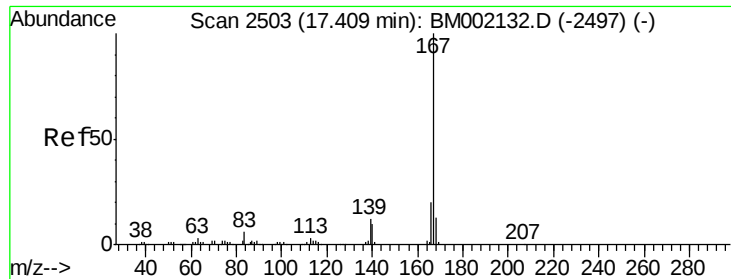


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 2.54 ng/ul

RT: 17.43 min Scan# 2507

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampled :

C01X0RE

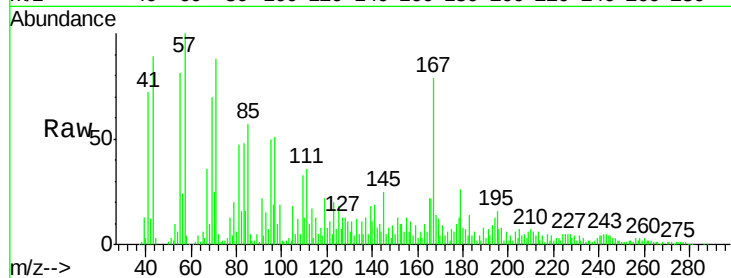
Tgt Ion:167 Resp: 97938

Ion Ratio Lower Upper

167 100

166 27.5 16.2 24.4#

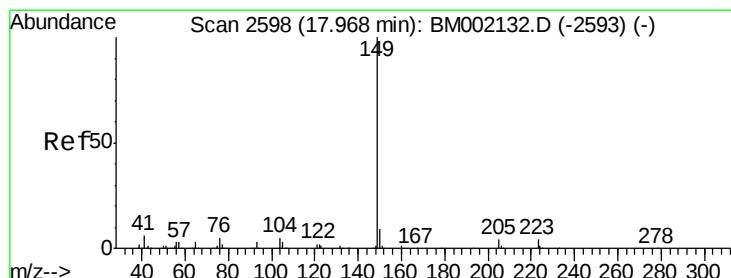
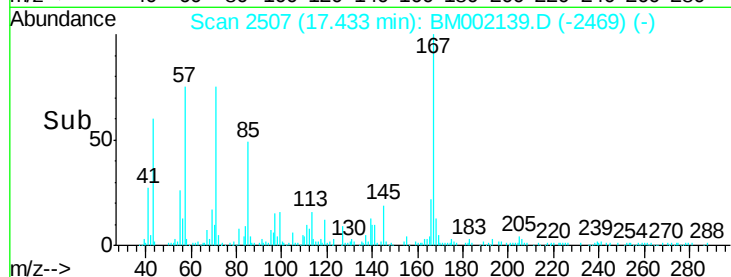
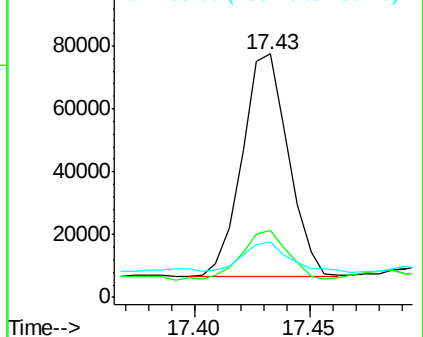
139 22.6 9.6 14.4#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#76

Di-n-butylphthalate

Concen: 2.23 ng/ul

RT: 17.99 min Scan# 2601

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

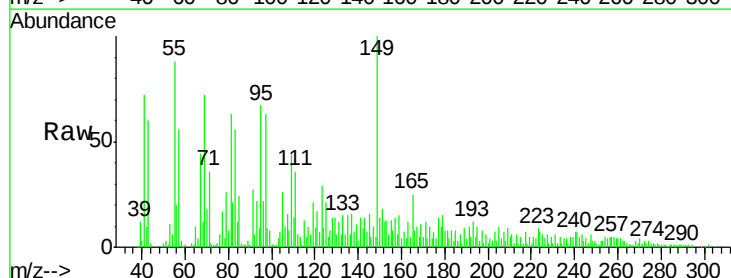
Tgt Ion:149 Resp: 102252

Ion Ratio Lower Upper

149 100

150 14.5 7.0 10.4#

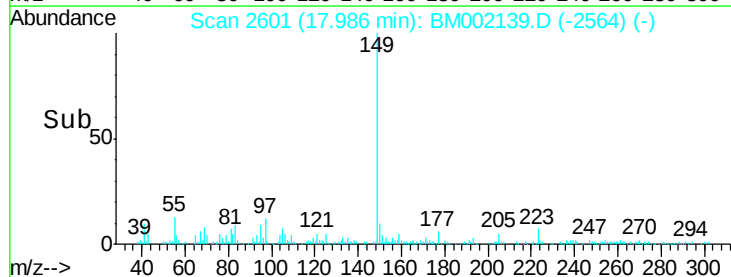
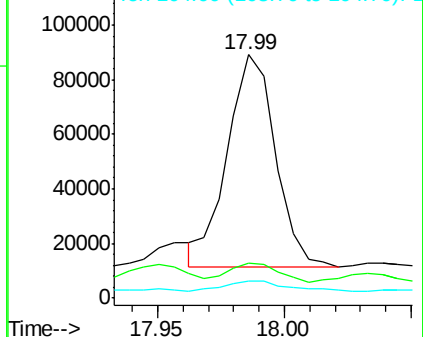
104 7.1 4.2 6.2#

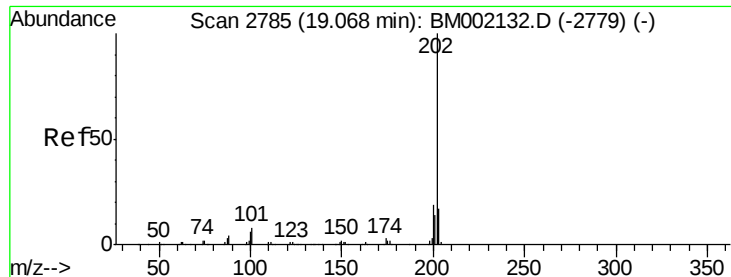


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#77

Fluoranthene

Concen: 47.11 ng/ul

RT: 19.10 min Scan# 2791

Delta R.T. 0.04 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

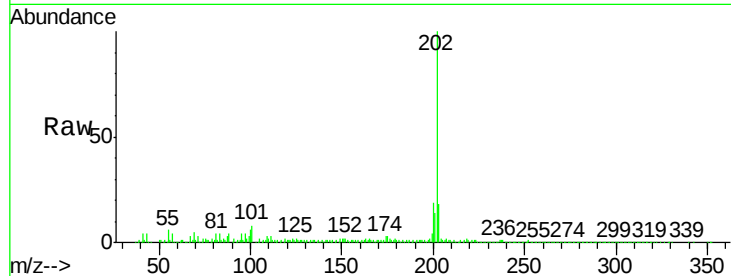
Tgt Ion:202 Resp: 2397411

Ion Ratio Lower Upper

202 100

101 8.3 6.2 9.4

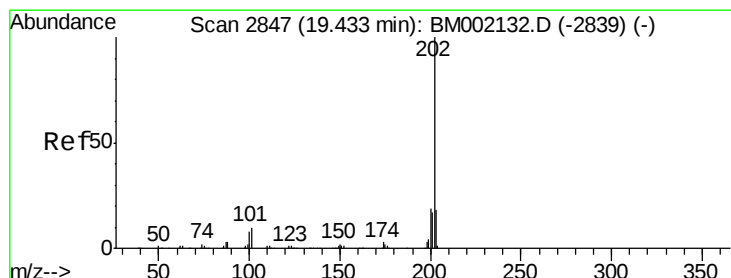
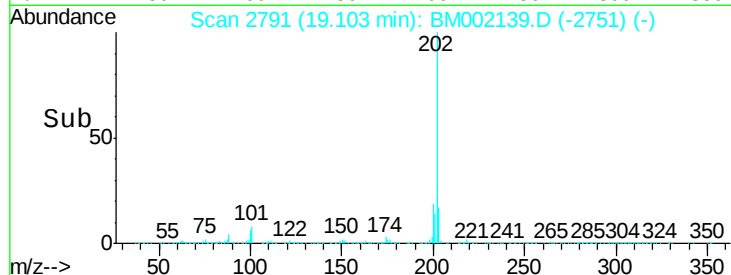
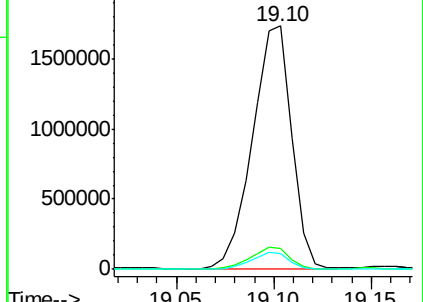
100 6.4 5.2 7.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Pyrene

Concen: 44.47 ng/ul

RT: 19.47 min Scan# 2853

Delta R.T. 0.04 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

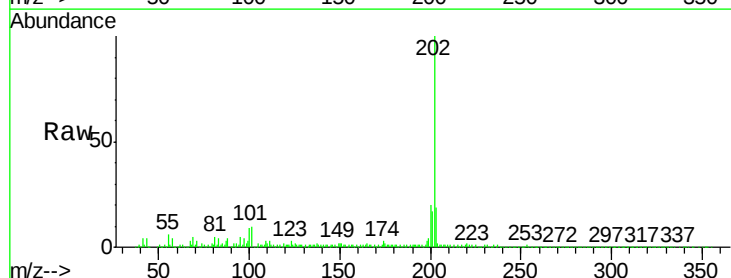
Tgt Ion:202 Resp: 2392513

Ion Ratio Lower Upper

202 100

101 10.3 7.4 11.2

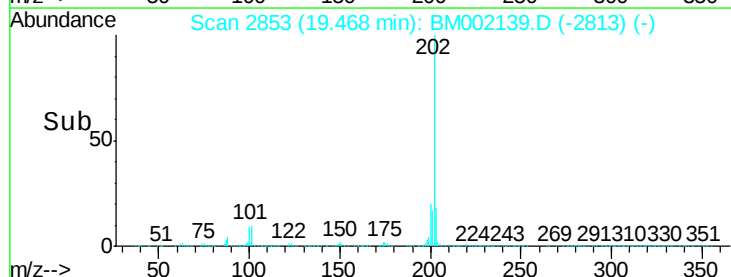
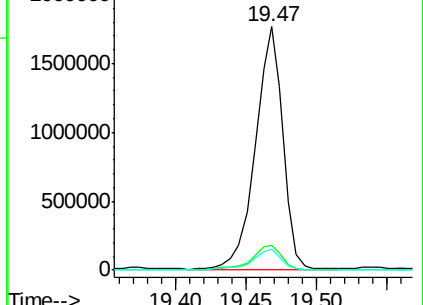
100 8.6 6.3 9.5

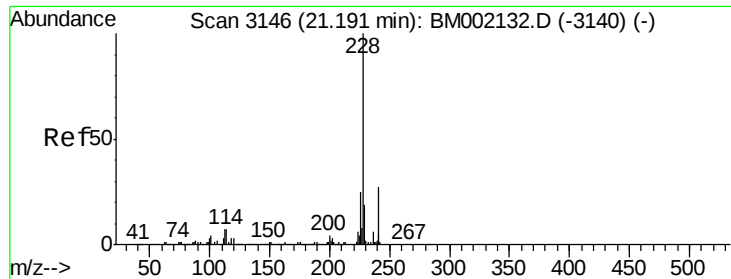


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#83

Benzo(a)anthracene

Concen: 23.22 ng/ul

RT: 21.22 min Scan# 3151

Delta R.T. 0.03 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

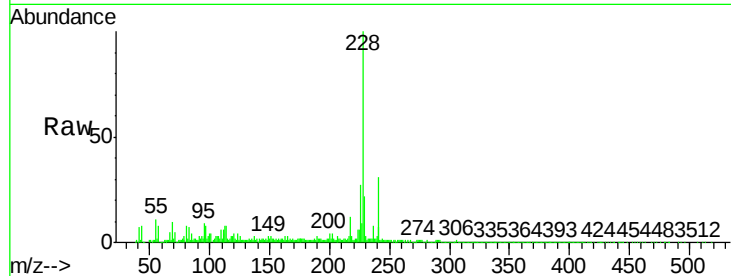
Tgt Ion:228 Resp: 1272495

Ion Ratio Lower Upper

228 100

229 21.5 15.4 23.2

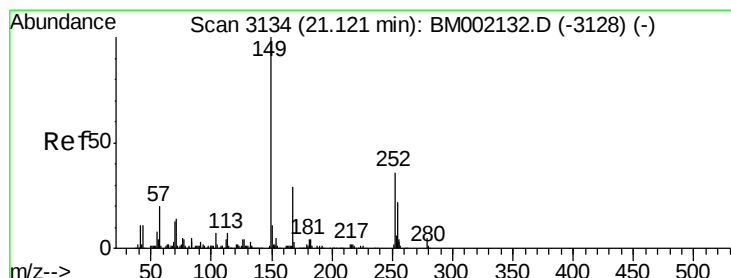
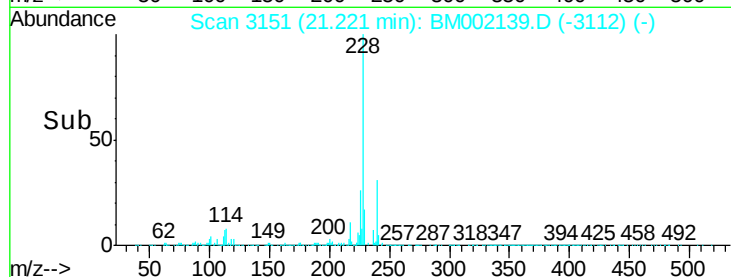
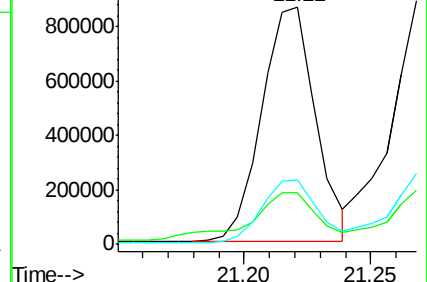
226 26.9 20.5 30.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.15 ng/ul

RT: 21.13 min Scan# 3136

Delta R.T. 0.01 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

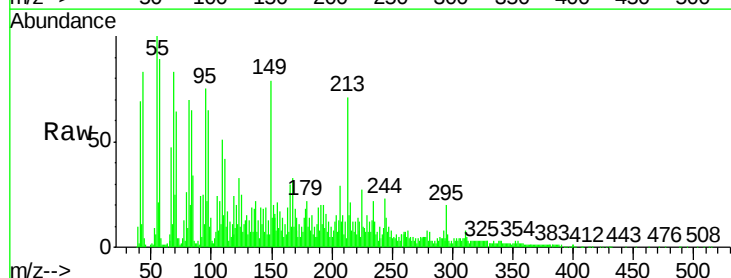
Tgt Ion:149 Resp: 67791

Ion Ratio Lower Upper

149 100

167 41.3 23.6 35.4#

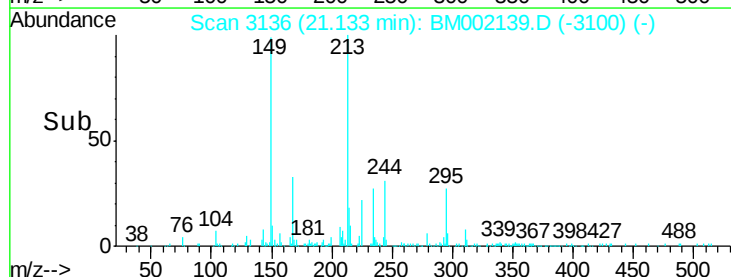
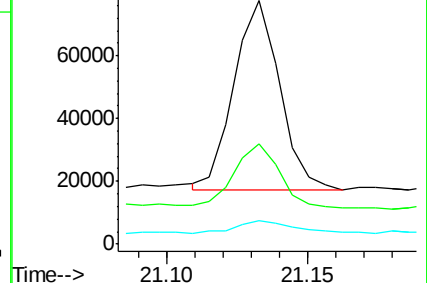
279 9.7 4.2 6.4#

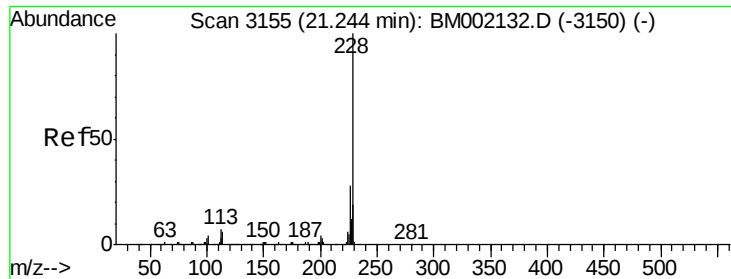


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 24.12 ng/ul

RT: 21.27 min Scan# 3159

Delta R.T. 0.02 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

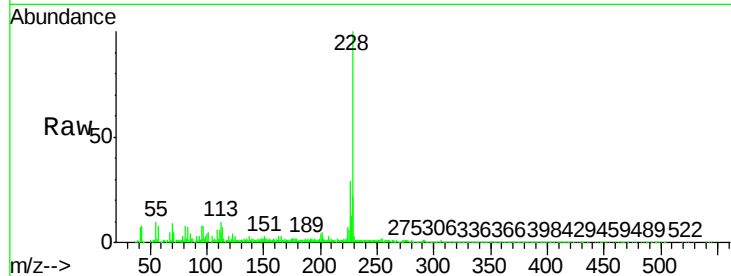
Tgt Ion:228 Resp: 1237053

Ion Ratio Lower Upper

228 100

226 28.9 22.3 33.5

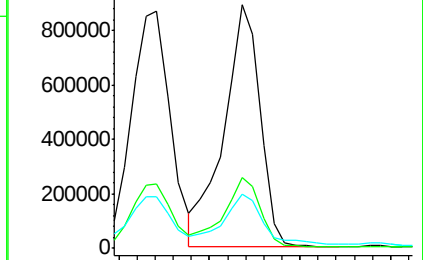
229 22.5 15.5 23.3



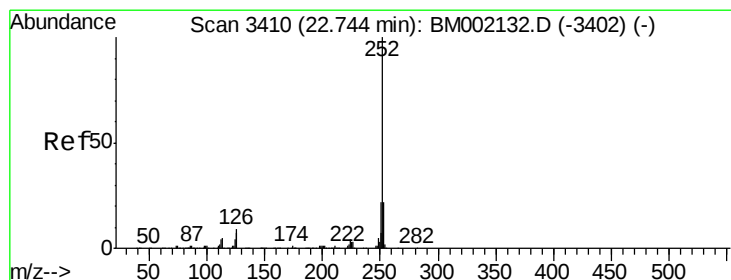
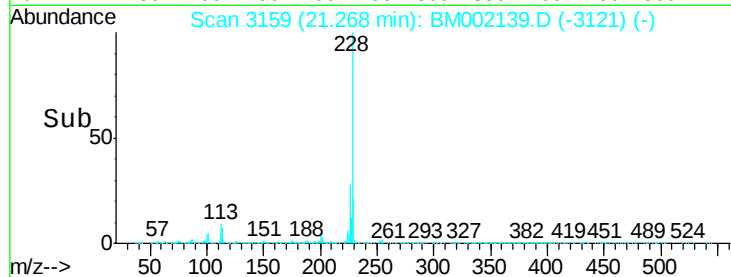
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#88

Benzo(b)fluoranthene

Concen: 28.25 ng/ul

RT: 22.79 min Scan# 3417

Delta R.T. 0.04 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

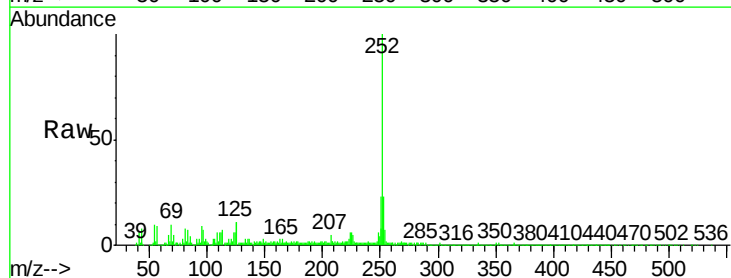
Tgt Ion:252 Resp: 1548109

Ion Ratio Lower Upper

252 100

253 23.4 16.9 25.3

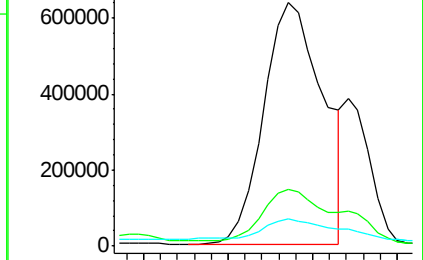
125 11.0 6.2 9.2#



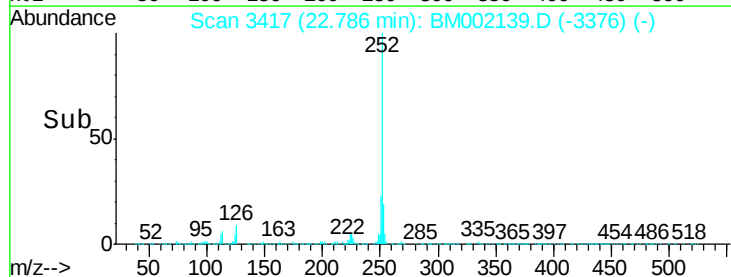
Abundance Ion 252.00 (251.70 to 252.70): E

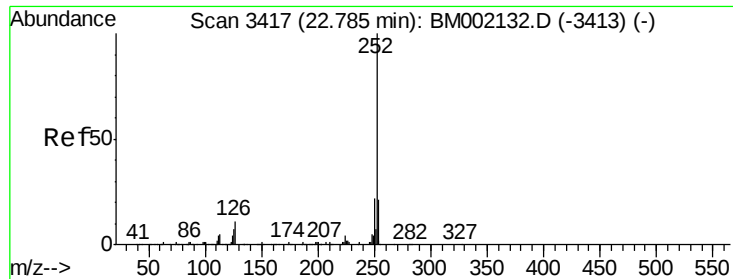
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#89

Benzo(k)fluoranthene

Concen: 3.97 ng/ul

RT: 22.95 min Scan# 3445

Delta R.T. 0.16 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

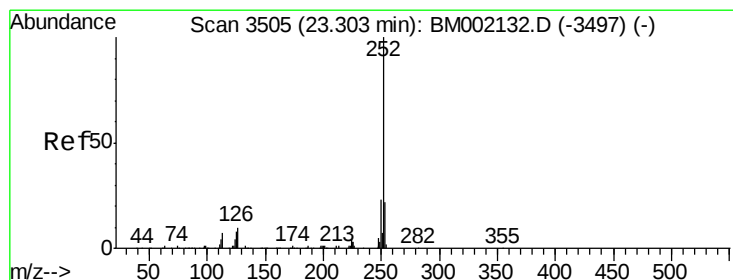
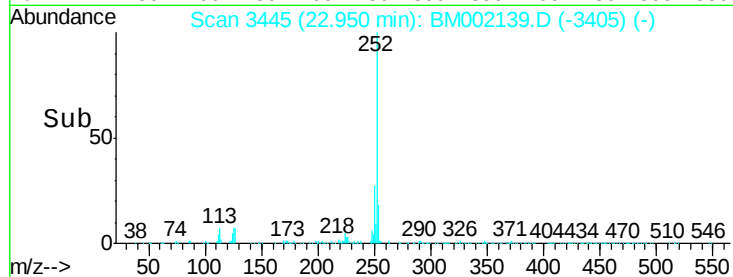
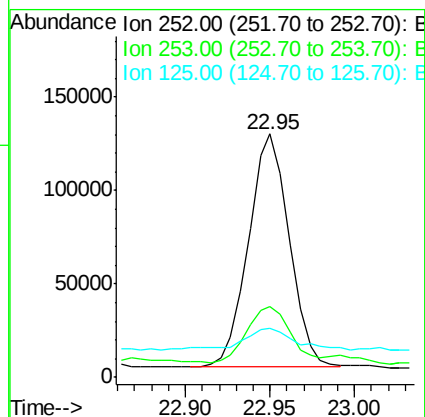
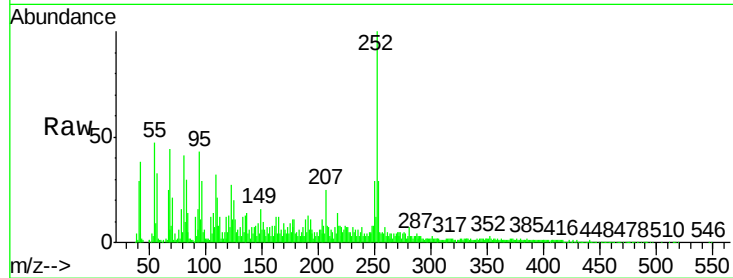
Tgt Ion:252 Resp: 209701

Ion Ratio Lower Upper

252 100

253 29.2 17.4 26.0#

125 20.2 6.2 9.4#



#91

Benzo(a)pyrene

Concen: 20.66 ng/ul

RT: 23.36 min Scan# 3514

Delta R.T. 0.05 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

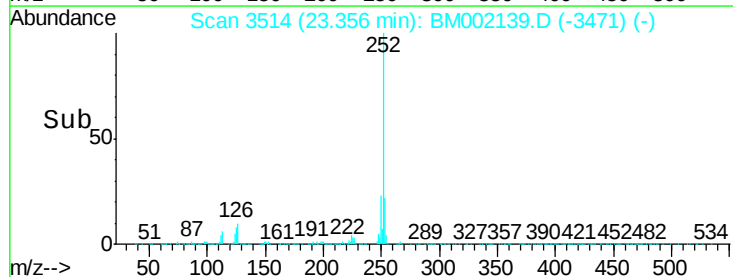
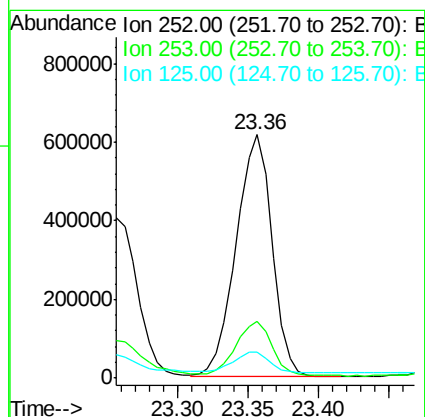
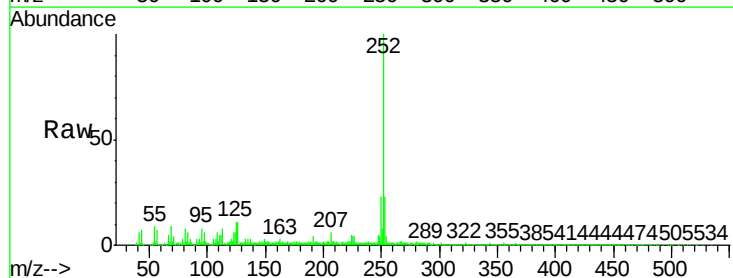
Tgt Ion:252 Resp: 1092919

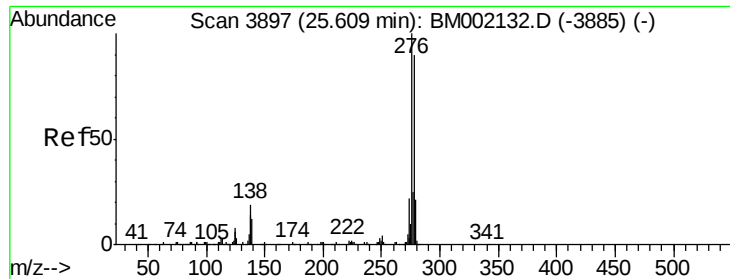
Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

125 10.8 6.6 10.0#





#92

Indeno(1,2,3-cd)pyrene

Concen: 11.91 ng/ul

RT: 25.69 min Scan# 3911

Delta R.T. 0.08 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

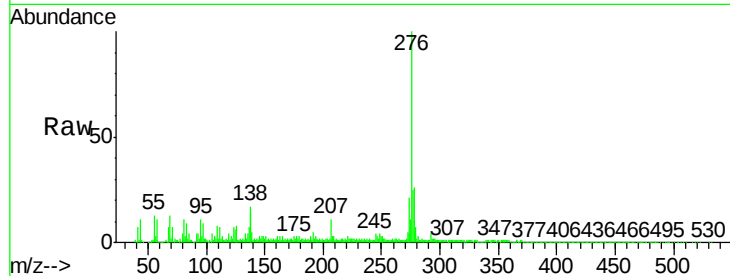
Tgt Ion:276 Resp: 725653

Ion Ratio Lower Upper

276 100

138 16.7 16.2 24.2

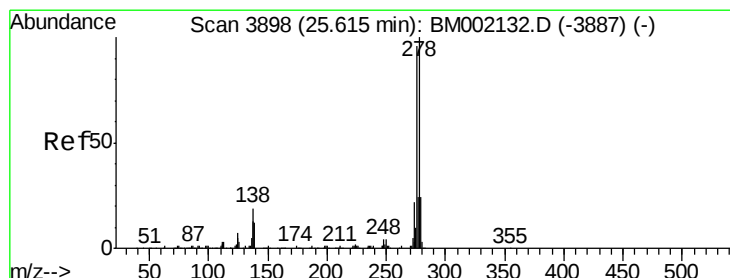
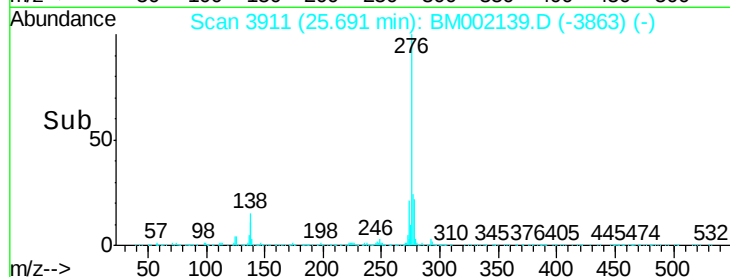
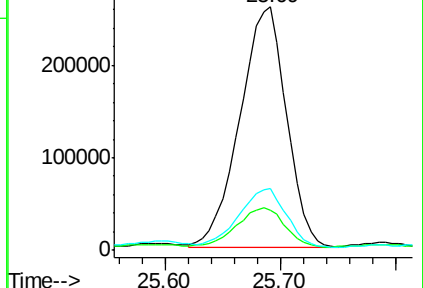
277 25.2 19.8 29.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93

Dibenzo(a,h)anthracene

Concen: 4.06 ng/ul

RT: 25.68 min Scan# 3909

Delta R.T. 0.06 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

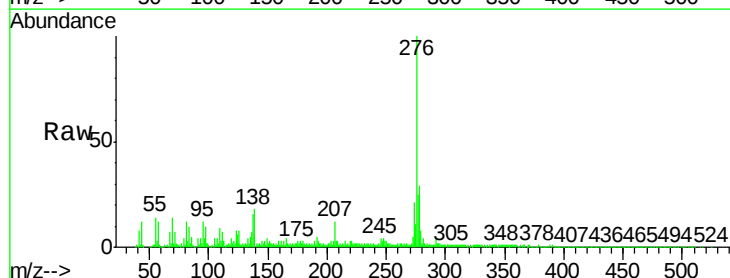
Tgt Ion:278 Resp: 211635

Ion Ratio Lower Upper

278 100

139 19.3 10.6 16.0#

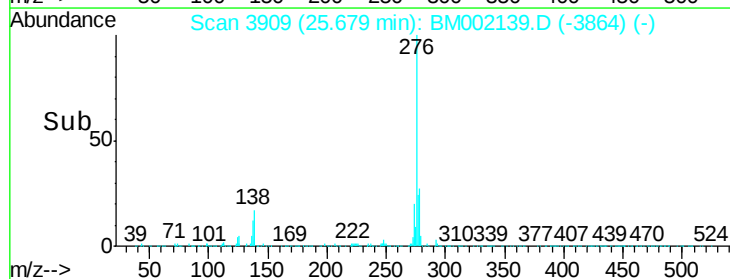
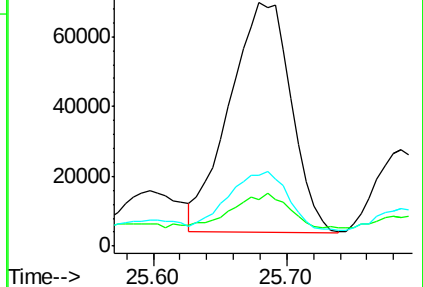
279 29.2 18.5 27.7#

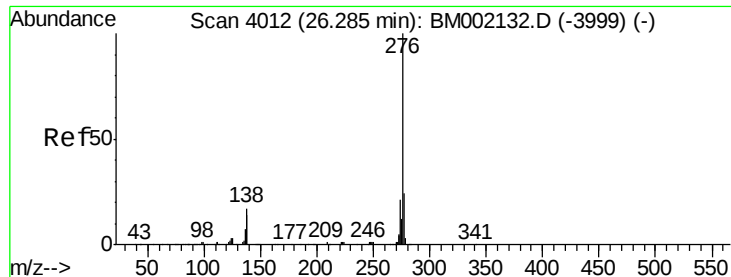


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 13.12 ng/ul

RT: 26.38 min Scan# 4028

Delta R.T. 0.09 min

Lab File: BM002139.D

Acq: 30 Jul 2015 16:42

Instrument :

BNA_M

ClientSampleId :

C01X0RE

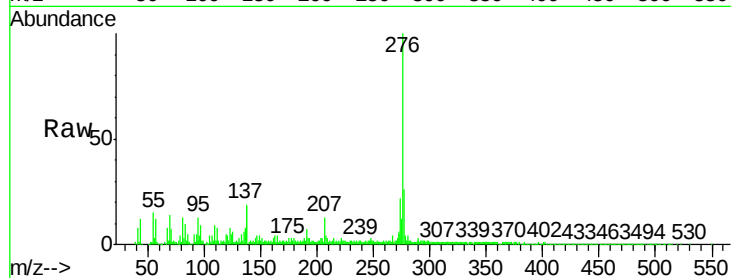
Tgt Ion:276 Resp: 670164

Ion Ratio Lower Upper

276 100

138 17.6 13.8 20.6

277 25.7 18.2 27.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

