

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
 Data File : BM002205.D
 Acq On : 03 Aug 2015 19:49
 Operator : TP/UM
 Sample : G3095-12
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01S3

Quant Time: Aug 04 02:37:56 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 04 02:31:26 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	94249	20.00	ng/ul	0.00
18) Naphthalene-d8	10.32	136	373622	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.21	164	206604	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.97	188	426945	20.00	ng/ul	0.01
78) Chrysene-d12	21.19	240	552819	20.00	ng/ul	0.02
86) Perylene-d12	23.39	264	564785	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.98	96	2669	1.47	ng/uL	0.00
5) Phenol-d5	6.72	99	72765	10.80	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.87	67	36922	9.91	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	62095	10.87	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	59598	11.13	ng/ul	0.00
19) Nitrobenzene-d5	8.69	128	28866	10.87	ng/ul	0.00
22) 2-Nitrophenol-d4	9.42	143	32537	11.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	63352	11.15	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	52219	8.36	ng/ul	0.01
44) Dimethylphthalate-d6	13.62	166	171126	11.31	ng/ul	0.00
47) Acenaphthylene-d8	13.90	160	209574	11.08	ng/ul	0.00
52) 4-Nitrophenol-d4	14.47	143	19816	7.84	ng/ul	0.02
58) Fluorene-d10	15.21	176	143191	10.75	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.38	200	667	0.26	ng/ul	0.03
71) Anthracene-d10	17.07	188	210905	11.07	ng/ul	0.02
79) Pyrene-d10	19.38	212	239460	10.29	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.26	264	283582	10.36	ng/ul	0.05

Target Compounds

						Qvalue
6) Phenol	6.75	94	8624	1.25	ng/ul	95
14) Acetophenone	8.36	105	10656	1.26	ng/ul	98
28) Naphthalene	10.37	128	1614098	90.94	ng/ul	100
34) 2-Methylnaphthalene	12.00	142	220700	17.09	ng/ul	99
35) 1-Methylnaphthalene	12.22	142	106898	8.61	ng/ul	99
41) 1,1'-Biphenyl	13.03	154	84013	5.28	ng/ul	98
45) Dimethylphthalate	13.67	163	57999	3.84	ng/ul	100
48) Acenaphthylene	13.93	152	81747	4.19	ng/ul	98
50) Acenaphthene	14.28	153	1255584	98.10	ng/ul	98
53) 4-Nitrophenol	14.61	109	2635	1.25	ng/ul#	1
54) Dibenzofuran	14.61	168	624757	34.04	ng/ul	98
59) Fluorene	15.27	166	833352	54.93	ng/ul	99
61) 4-Nitroaniline	15.27	138	9227	3.16	ng/ul#	13
70) Phenanthrene	17.03	178	8193054	370.49	ng/ul	96
72) Anthracene	17.11	178	1957129	86.57	ng/ul	100
75) Carbazole	17.38	167	1012834	52.45	ng/ul	99
77) Fluoranthene	19.19	202	38189	1.50	ng/ul	99
80) Pyrene	19.43	202	9764537	324.60	ng/ul#	92
83) Benzo(a)anthracene	21.18	228	5817140	189.82	ng/ul	96
85) Chrysene	21.18	228	5817140	202.89	ng/ul	98
88) Benzo(b)fluoranthene	22.76	252	7574316	238.67	ng/ul	96
89) Benzo(k)fluoranthene	22.79	252	2397772	78.31	ng/ul	96
91) Benzo(a)pyrene	23.32	252	5610444	183.15	ng/ul	96

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
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ALS Vial : 24 Sample Multiplier: 1

Instrument :
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 04 02:31:26 2015
Response via : Initial Calibration

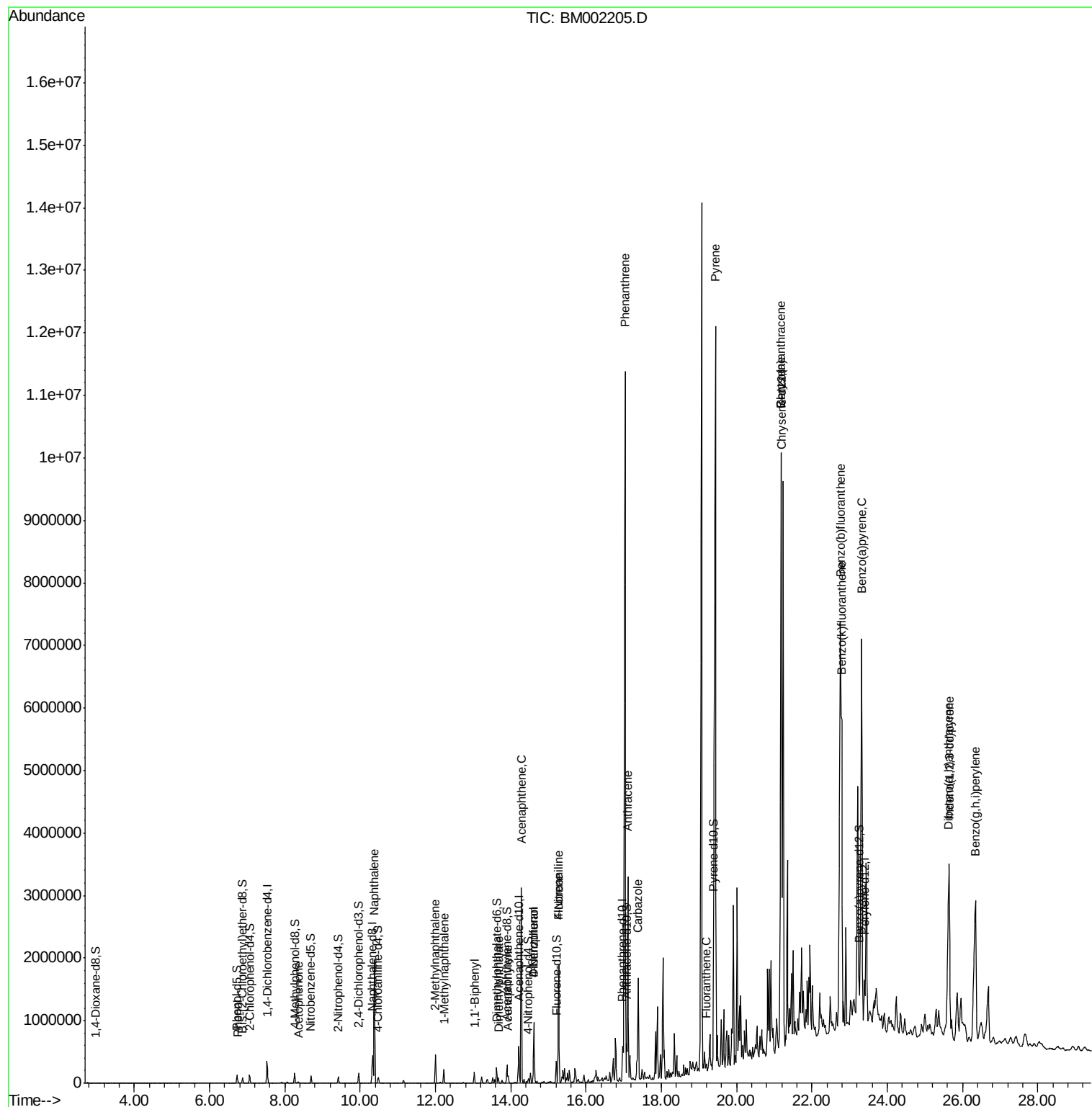
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	25.65	276	3767091	106.72	ng/ul#	95
93) Dibenzo(a,h)anthracene	25.63	278	949410	31.43	ng/ul#	92
94) Benzo(g,h,i)perylene	26.34	276	3359773	113.54	ng/ul	95

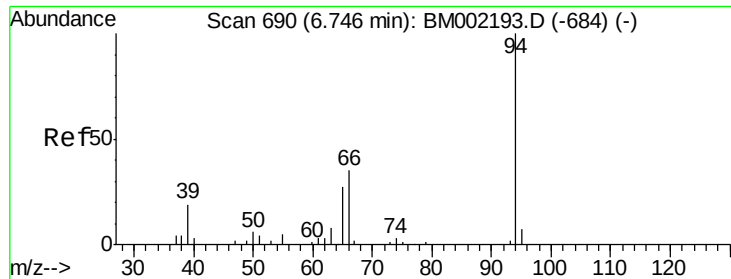
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
Data File : BM002205.D
Acq On : 03 Aug 2015 19:49
Operator : TP/UM
Sample : G3095-12
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Quant Time: Aug 04 02:37:56 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
Quant Title : SVOA CALIBRATION
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#6

Phenol

Concen: 1.25 ng/ul

RT: 6.75 min Scan# 691

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

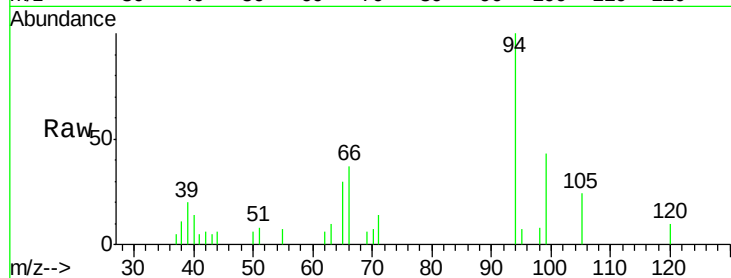
Tgt Ion: 94 Resp: 8624

Ion Ratio Lower Upper

94 100

65 30.1 21.8 32.8

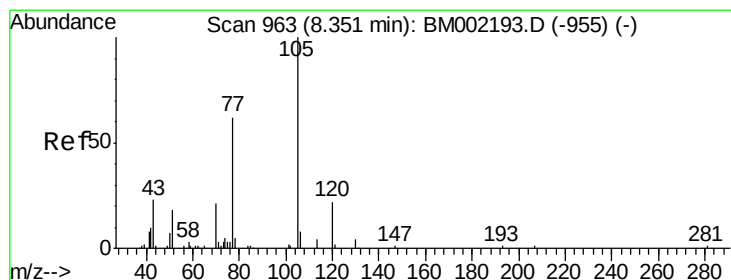
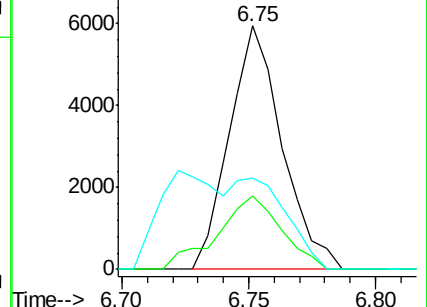
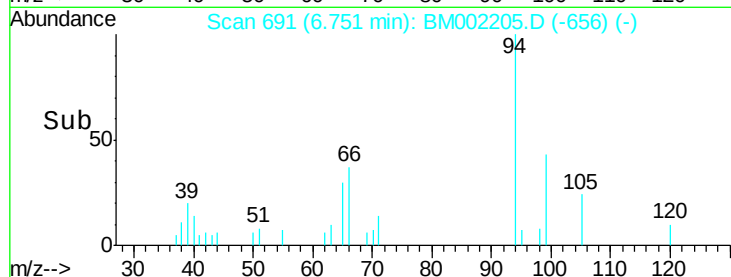
66 37.3 32.3 48.5



Abundance Ion 94.00 (93.70 to 94.70): BM002205.D (-656) (-)

Ion 65.00 (64.70 to 65.70): BM002205.D (-656) (-)

Ion 66.00 (65.70 to 66.70): BM002205.D (-656) (-)



#14

Acetophenone

Concen: 1.26 ng/ul

RT: 8.36 min Scan# 964

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

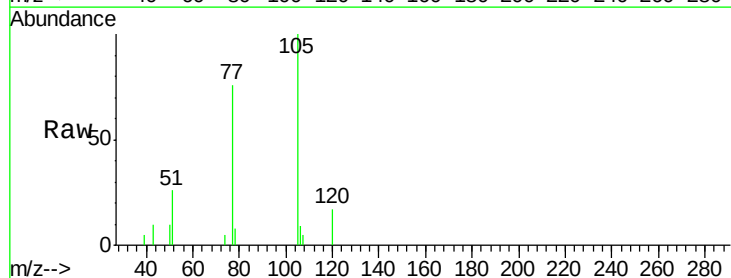
Tgt Ion: 105 Resp: 10656

Ion Ratio Lower Upper

105 100

77 76.5 61.8 92.8

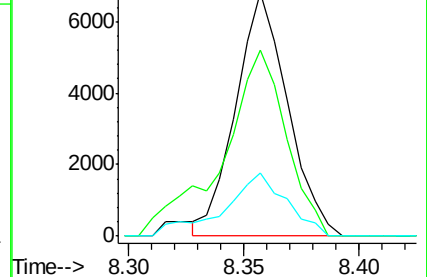
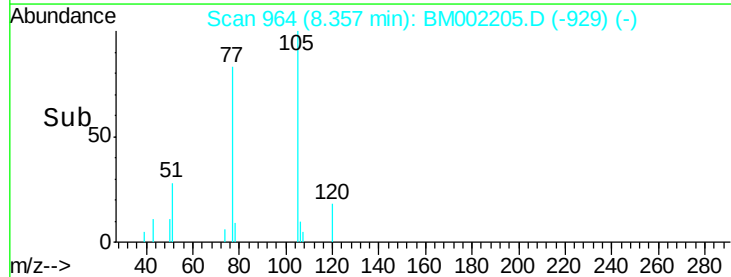
51 25.7 18.5 27.7

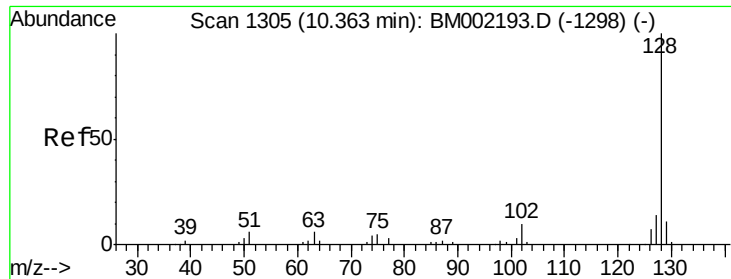


Abundance Ion 105.00 (104.70 to 105.70): BM002205.D (-929) (-)

Ion 77.00 (76.70 to 77.70): BM002205.D (-929) (-)

Ion 51.00 (50.70 to 51.70): BM002205.D (-929) (-)





#28

Naphthalene

Concen: 90.94 ng/ul

RT: 10.37 min Scan# 1307

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

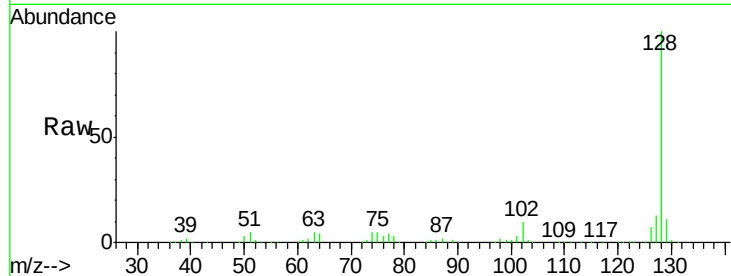
Tgt Ion:128 Resp: 1614098

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

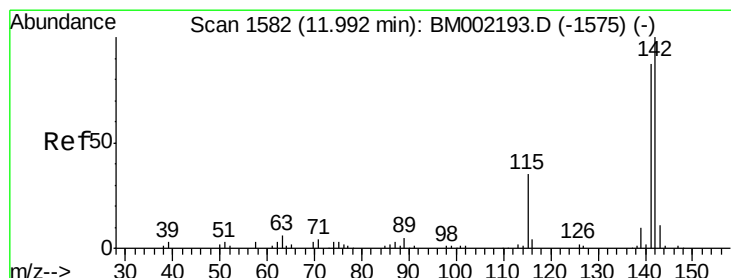
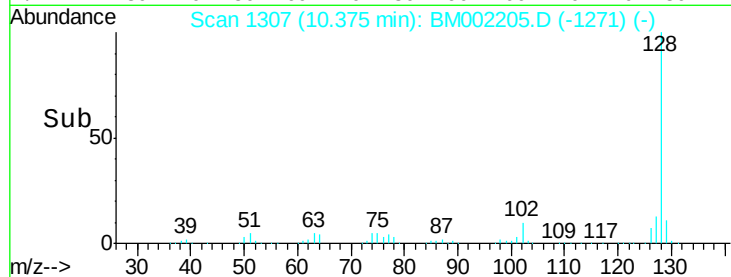
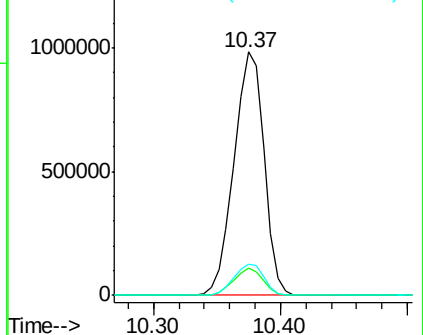
127 12.8 10.2 15.4



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



#34

2-Methylnaphthalene

Concen: 17.09 ng/ul

RT: 12.00 min Scan# 1583

Delta R.T. 0.01 min

Lab File: BM002205.D

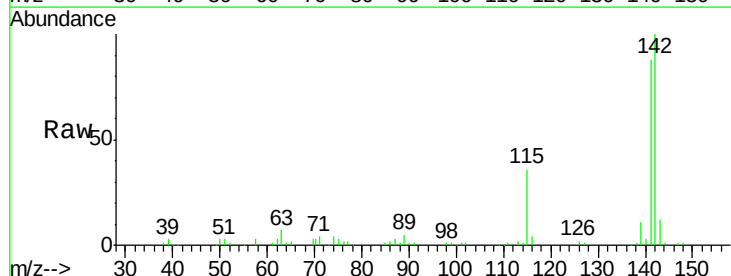
Acq: 03 Aug 2015 19:49

Tgt Ion:142 Resp: 220700

Ion Ratio Lower Upper

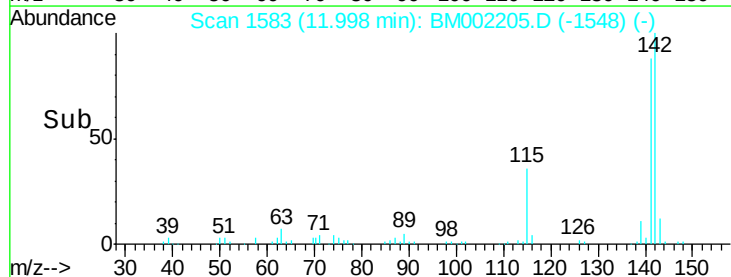
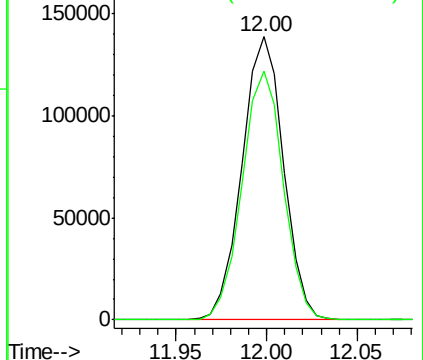
142 100

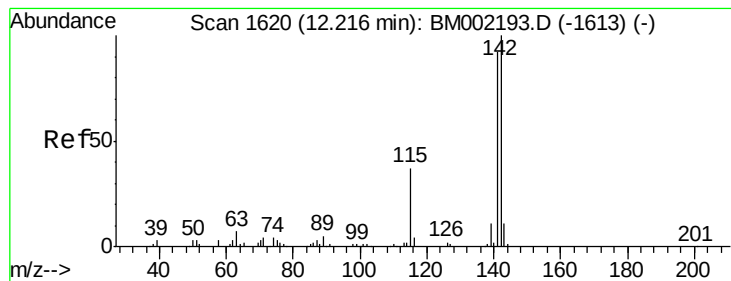
141 88.1 69.8 104.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#35

1-Methylnaphthalene

Concen: 8.61 ng/ul

RT: 12.22 min Scan# 1621

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

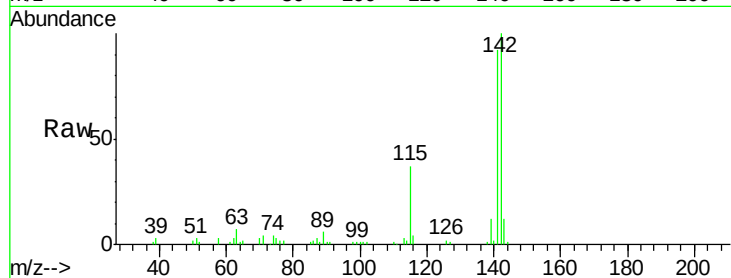
Tgt Ion:142 Resp: 106898

Ion Ratio Lower Upper

142 100

141 91.8 72.4 108.6

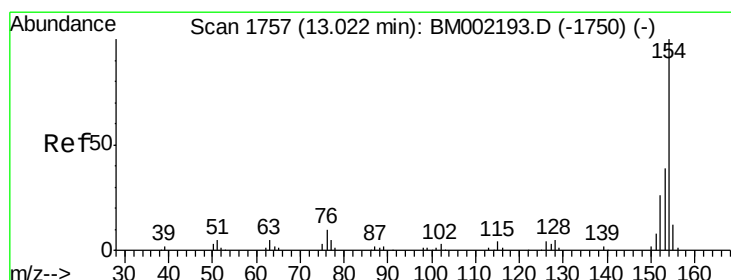
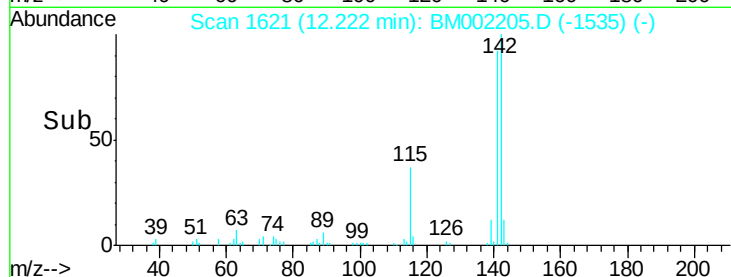
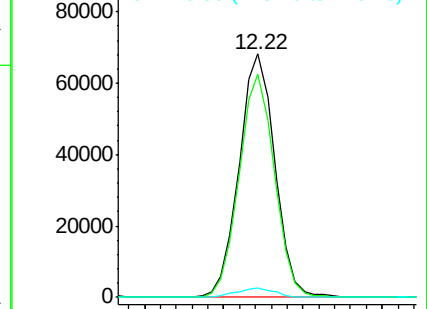
116 4.0 3.2 4.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#41

1,1'-Biphenyl

Concen: 5.28 ng/ul

RT: 13.03 min Scan# 1758

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

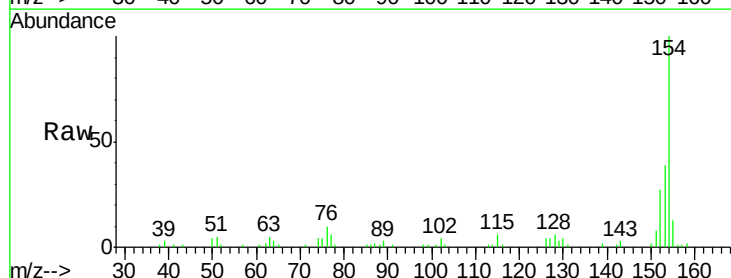
Tgt Ion:154 Resp: 84013

Ion Ratio Lower Upper

154 100

153 39.4 32.5 48.7

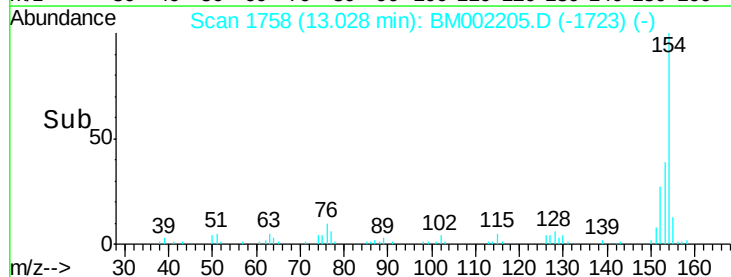
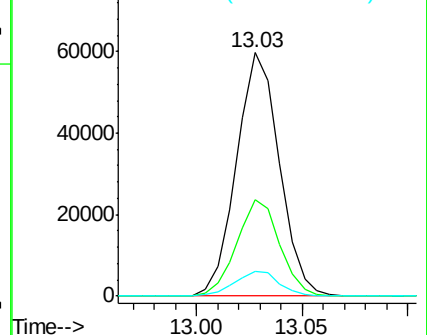
76 10.3 8.8 13.2

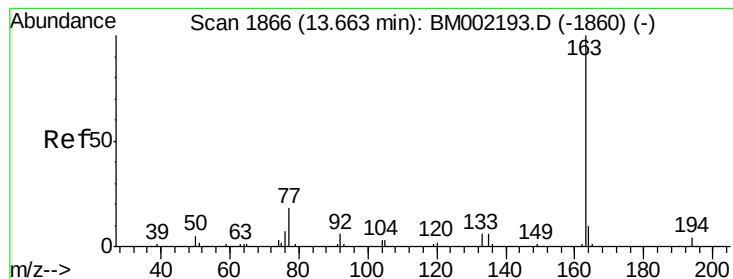


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





#45

Dimethylphthalate

Concen: 3.84 ng/ul

RT: 13.67 min Scan# 1867

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

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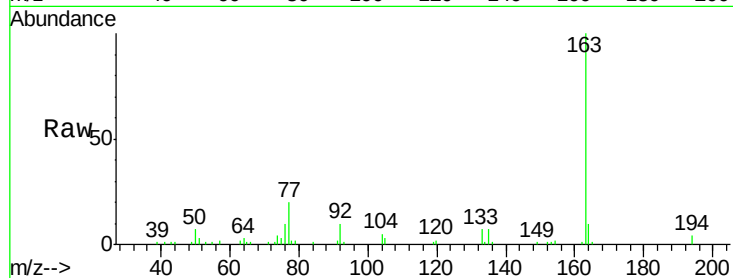
Tgt Ion:163 Resp: 57999

Ion Ratio Lower Upper

163 100

194 4.3 3.5 5.3

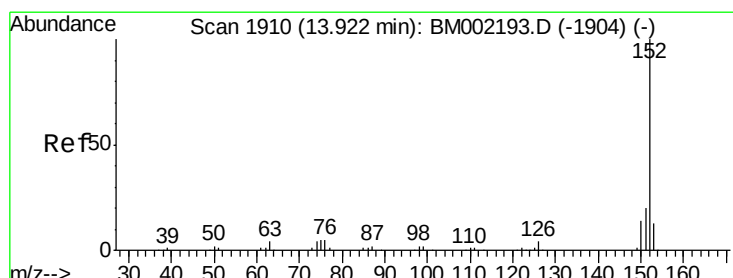
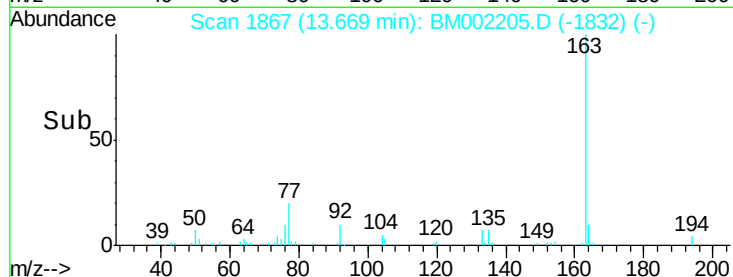
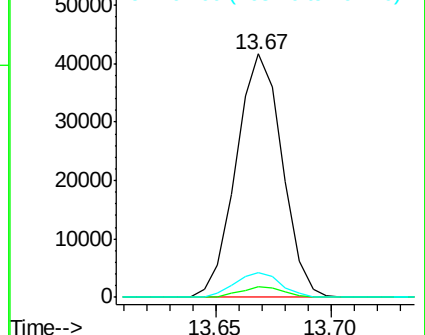
164 10.2 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#48

Acenaphthylene

Concen: 4.19 ng/ul

RT: 13.93 min Scan# 1911

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

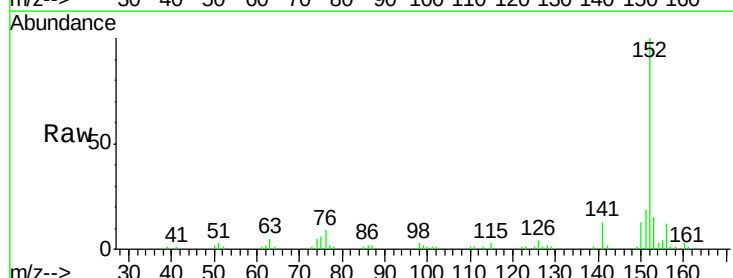
Tgt Ion:152 Resp: 81747

Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

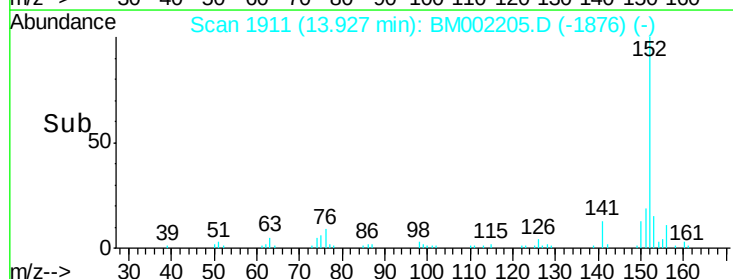
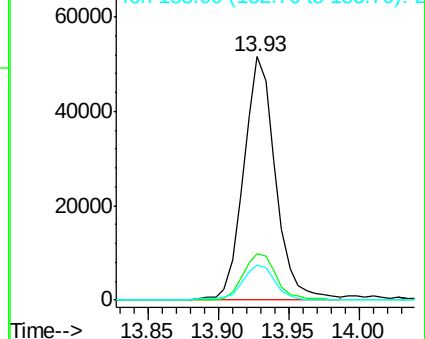
153 14.6 10.3 15.5

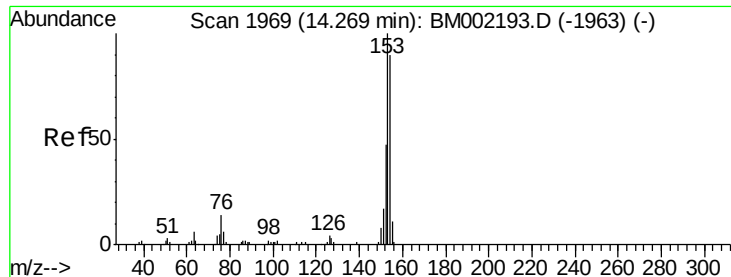


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 98.10 ng/ul

RT: 14.28 min Scan# 1971

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

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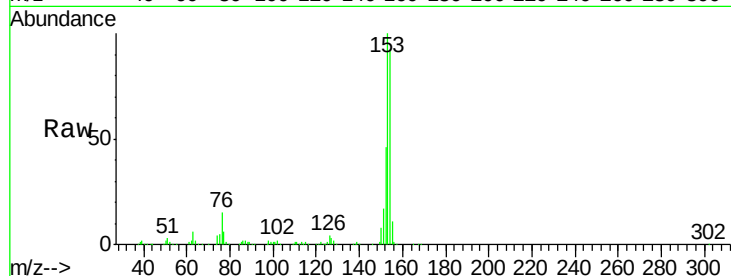
Tgt Ion:153 Resp: 1255584

Ion Ratio Lower Upper

153 100

152 46.1 37.3 55.9

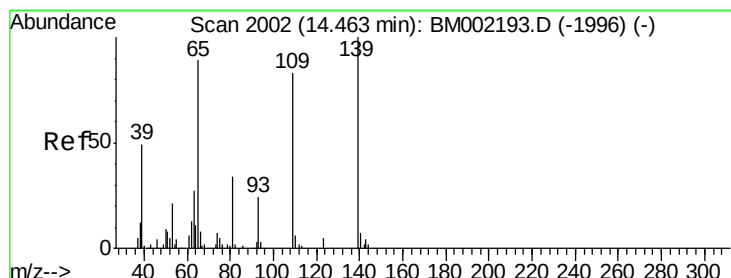
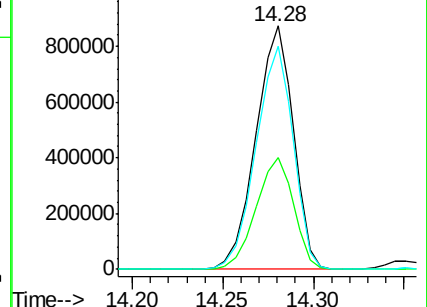
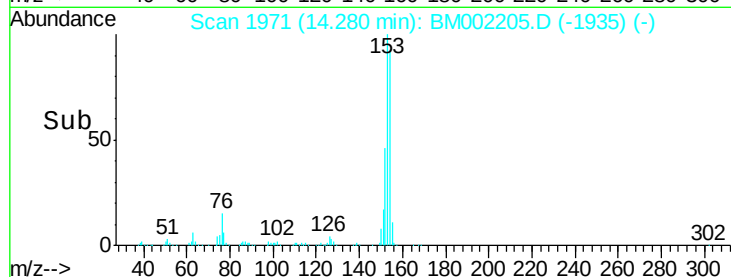
154 91.7 71.4 107.2



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



#53

4-Nitrophenol

Concen: 1.25 ng/ul

RT: 14.61 min Scan# 2027

Delta R.T. 0.15 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

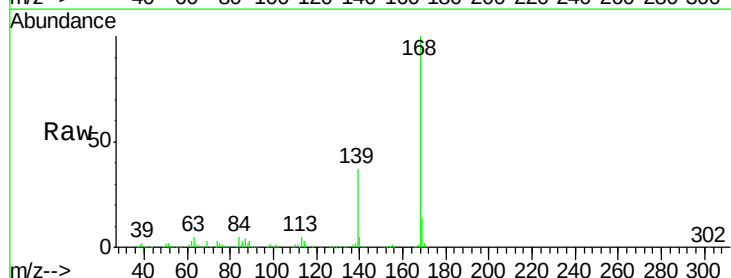
Tgt Ion:109 Resp: 2635

Ion Ratio Lower Upper

109 100

139 9259.5 99.7 149.5#

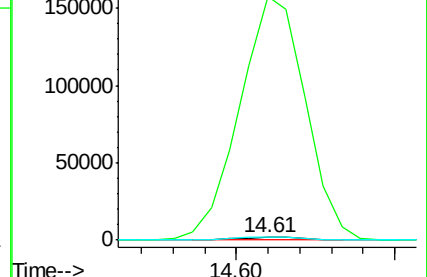
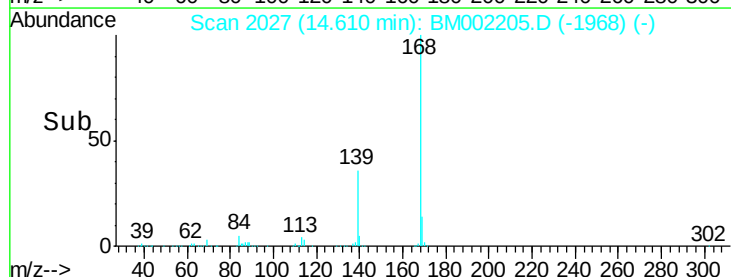
65 133.5 93.9 140.9

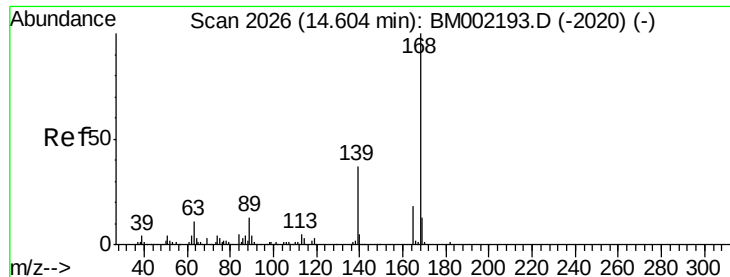


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM





#54

Dibenzenofuran

Concen: 34.04 ng/ul

RT: 14.61 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

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ClientSampleId :

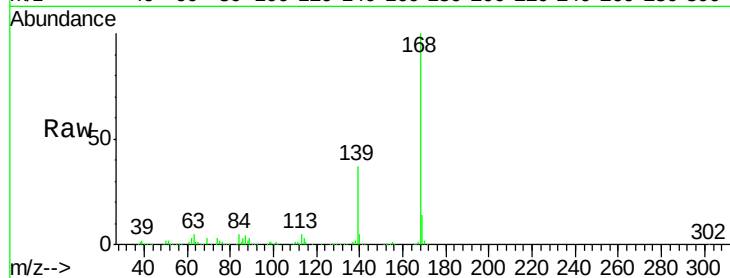
C01S3

Tgt Ion:168 Resp: 624757

Ion Ratio Lower Upper

168 100

139 36.6 28.2 42.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.61

400000

300000

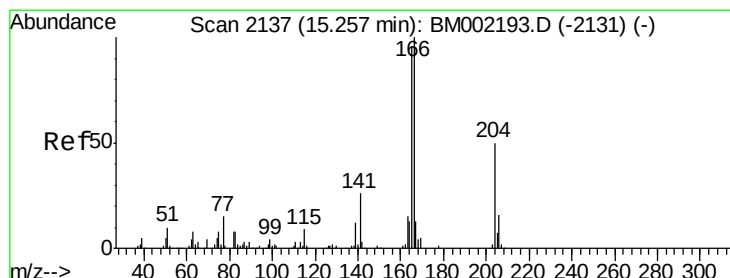
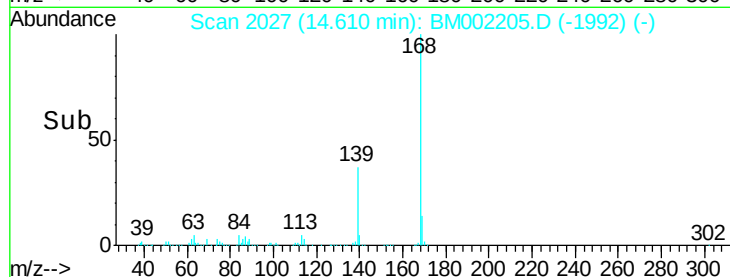
200000

100000

0

Time-->

14.55 14.60 14.65



#59

Fluorene

Concen: 54.93 ng/ul

RT: 15.27 min Scan# 2139

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

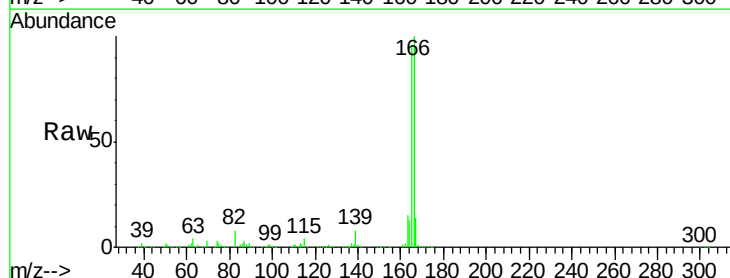
Tgt Ion:166 Resp: 833352

Ion Ratio Lower Upper

166 100

165 95.7 75.6 113.4

167 13.6 10.5 15.7



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

15.27

800000

600000

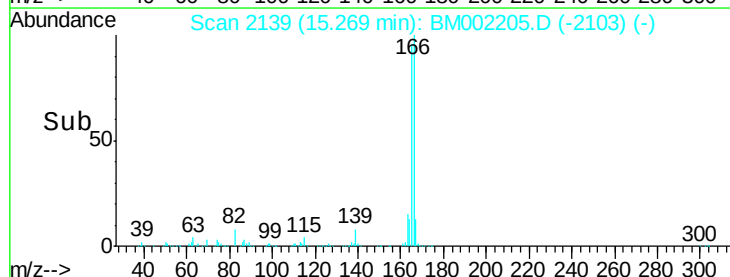
400000

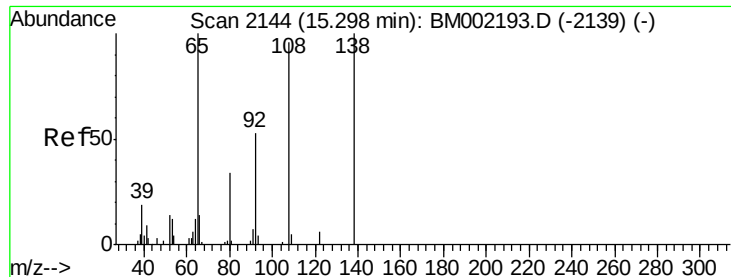
200000

0

Time-->

15.20 15.25 15.30 15.35

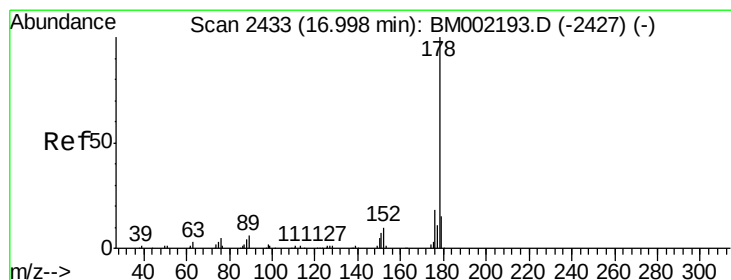
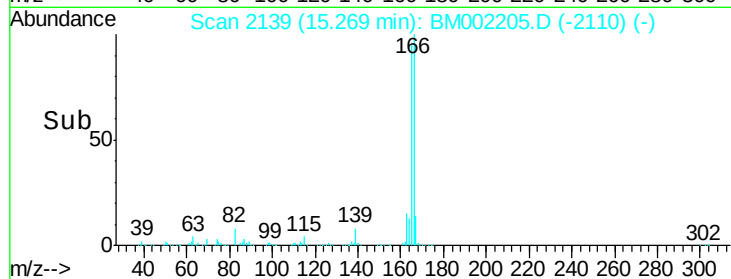
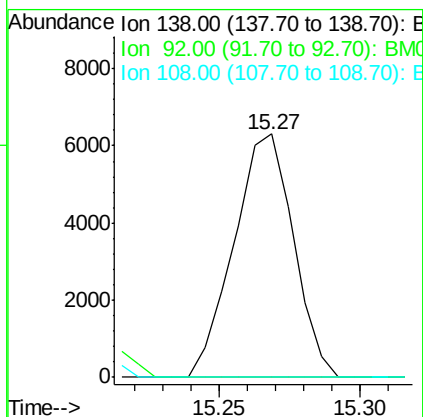
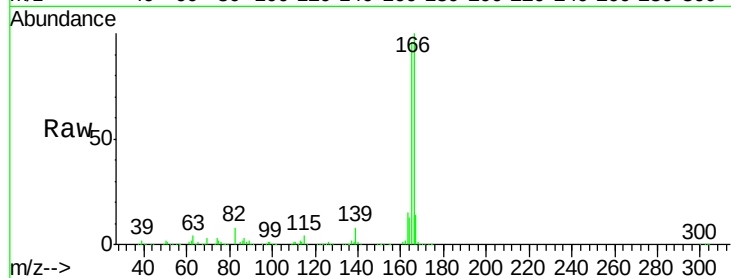




#61
4-Nitroaniline
Concen: 3.16 ng/ul
RT: 15.27 min Scan# 2139
Delta R.T. -0.03 min
Lab File: BM002205.D
Acq: 03 Aug 2015 19:49

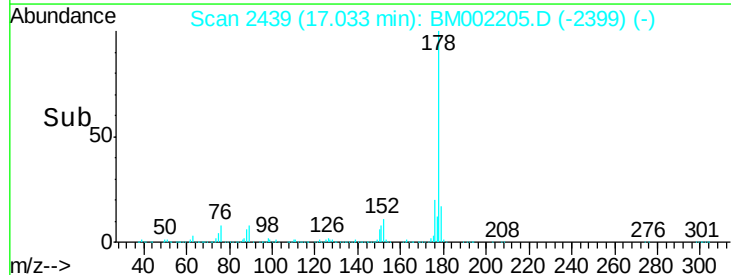
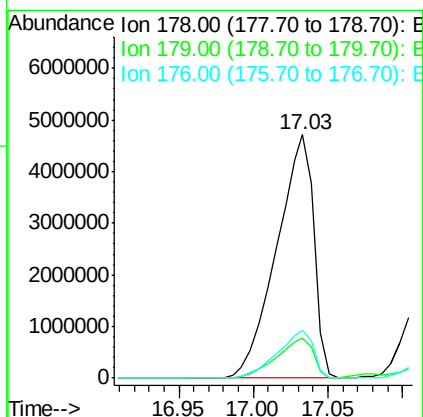
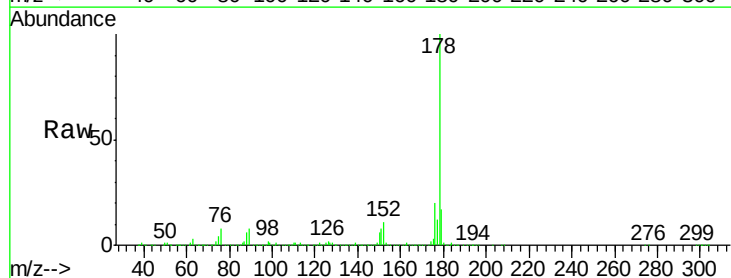
Instrument :
BNA_M
ClientSampleId :
C01S3

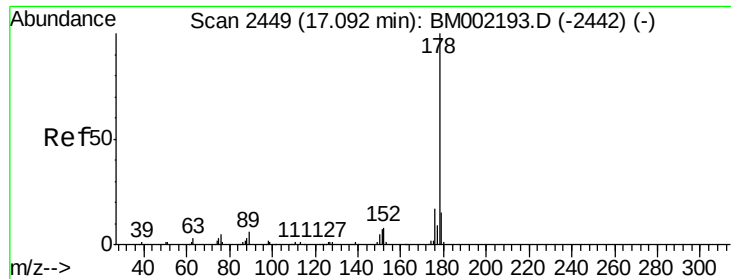
Tgt Ion:138 Resp: 9227
Ion Ratio Lower Upper
138 100
92 0.0 40.3 60.5#
108 0.0 70.8 106.2#



#70
Phenanthrene
Concen: 370.49 ng/ul
RT: 17.03 min Scan# 2439
Delta R.T. 0.04 min
Lab File: BM002205.D
Acq: 03 Aug 2015 19:49

Tgt Ion:178 Resp: 8193054
Ion Ratio Lower Upper
178 100
179 16.6 12.5 18.7
176 19.8 14.2 21.4





#72

Anthracene

Concen: 86.57 ng/ul

RT: 17.11 min Scan# 2452

Delta R.T. 0.02 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

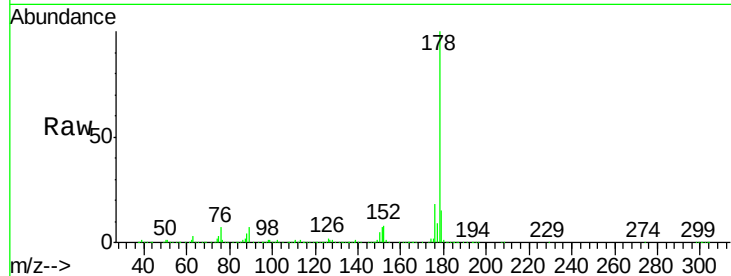
Tgt Ion:178 Resp: 1957129

Ion Ratio Lower Upper

178 100

179 15.5 12.1 18.1

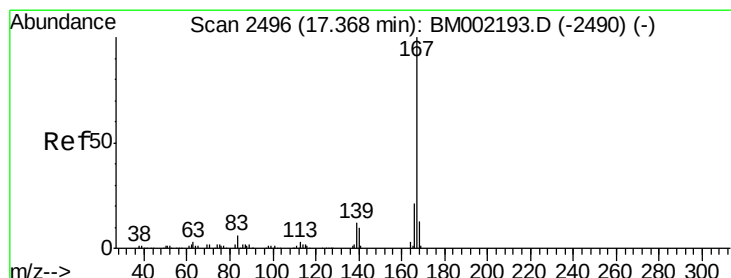
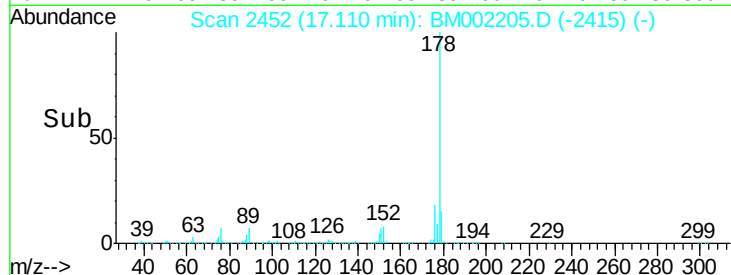
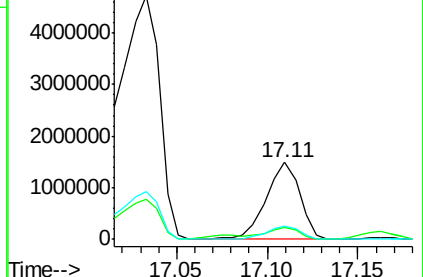
176 17.6 14.1 21.1



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: 52.45 ng/ul

RT: 17.38 min Scan# 2498

Delta R.T. 0.01 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

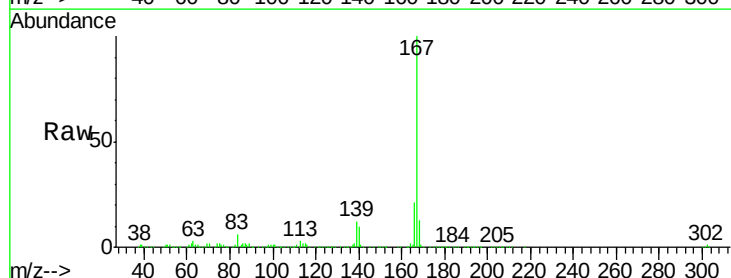
Tgt Ion:167 Resp: 1012834

Ion Ratio Lower Upper

167 100

166 20.6 16.2 24.4

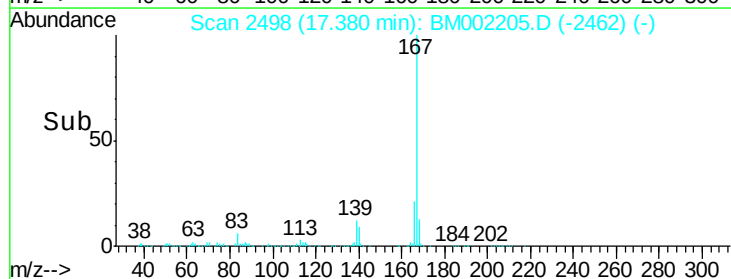
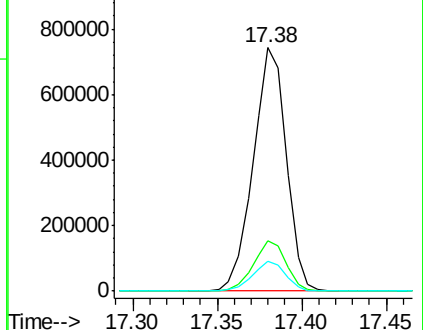
139 12.4 9.6 14.4

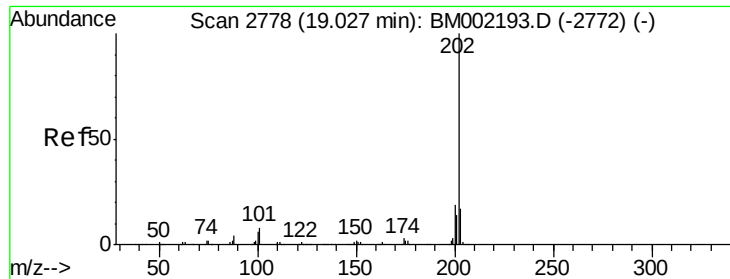


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

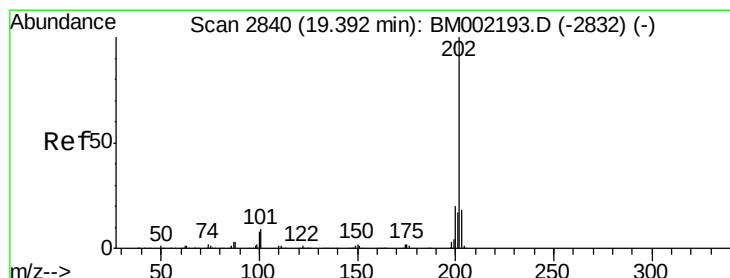
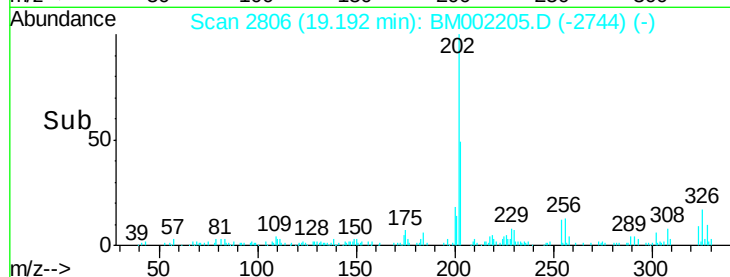
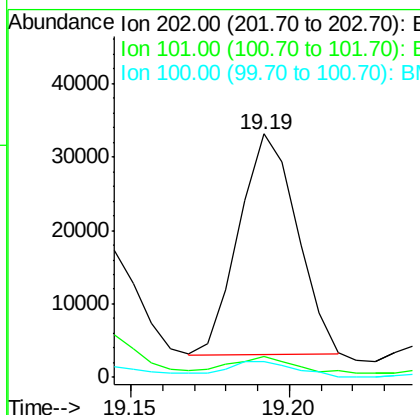
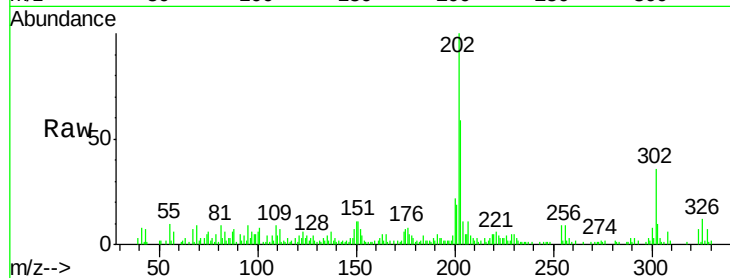




#77
 Fluoranthene
 Concen: 1.50 ng/ul
 RT: 19.19 min Scan# 2806
 Delta R.T. 0.16 min
 Lab File: BM002205.D
 Acq: 03 Aug 2015 19:49

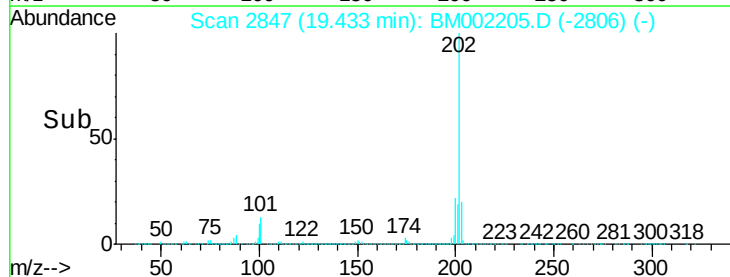
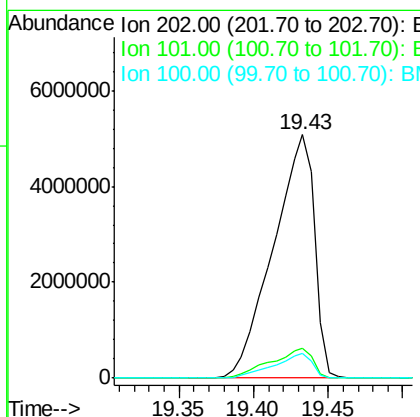
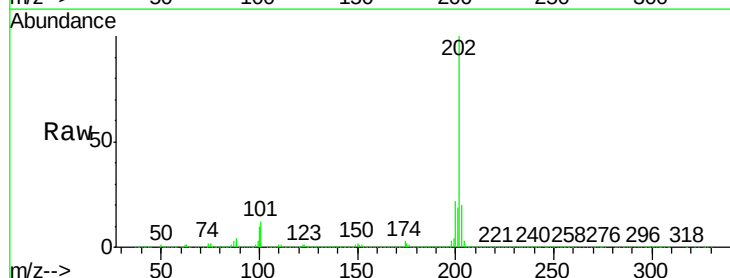
Instrument :
 BNA_M
 ClientSampleId :
 C01S3

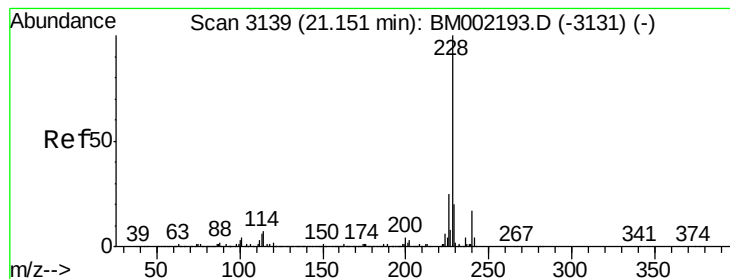
Tgt Ion:	202	Resp:	38189
Ion	Ratio	Lower	Upper
202	100		
101	8.4	6.2	9.4
100	6.2	5.2	7.8



#80
 Pyrene
 Concen: 324.60 ng/ul
 RT: 19.43 min Scan# 2847
 Delta R.T. 0.04 min
 Lab File: BM002205.D
 Acq: 03 Aug 2015 19:49

Tgt Ion:	202	Resp:	9764537
Ion	Ratio	Lower	Upper
202	100		
101	12.5	7.4	11.2#
100	10.2	6.3	9.5#





#83

Benzo(a)anthracene

Concen: 189.82 ng/ul

RT: 21.18 min Scan# 3144

Delta R.T. 0.03 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

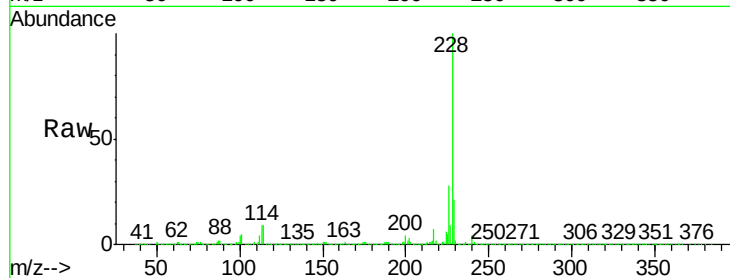
Tgt Ion:228 Resp: 5817140

Ion Ratio Lower Upper

228 100

229 21.3 15.4 23.2

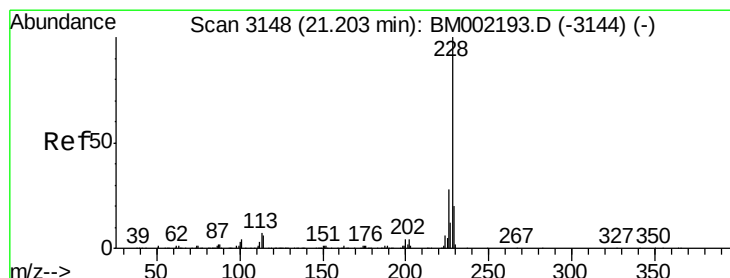
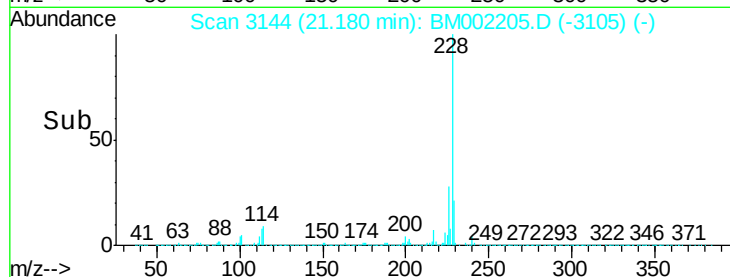
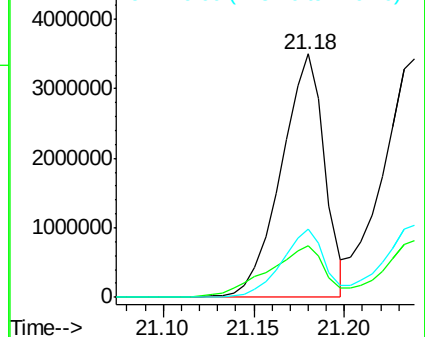
226 27.9 20.5 30.7



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



#85

Chrysene

Concen: 202.89 ng/ul

RT: 21.18 min Scan# 3144

Delta R.T. -0.02 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

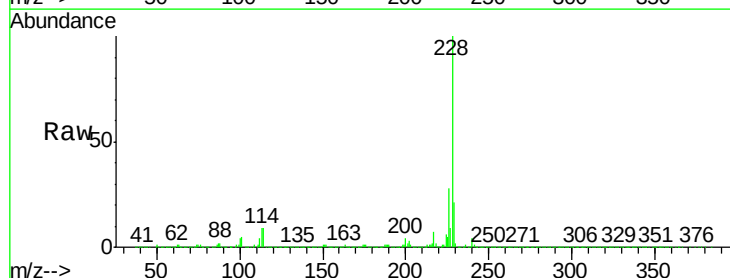
Tgt Ion:228 Resp: 5817140

Ion Ratio Lower Upper

228 100

226 27.9 22.3 33.5

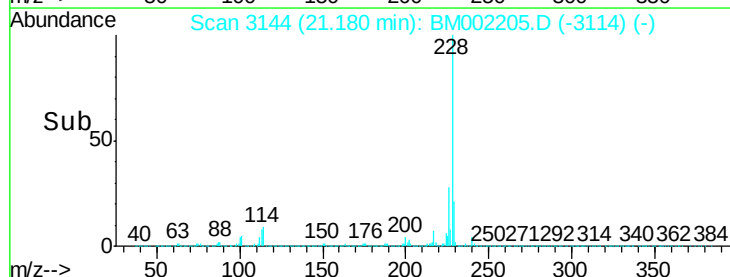
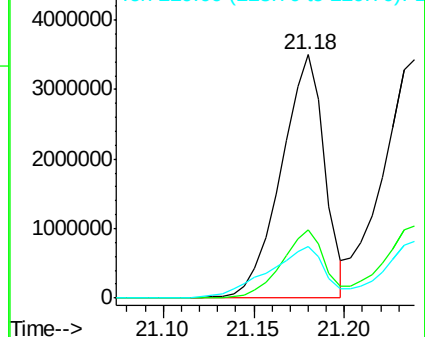
229 21.3 15.5 23.3

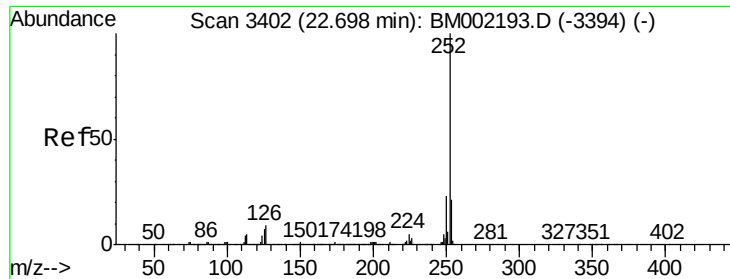


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

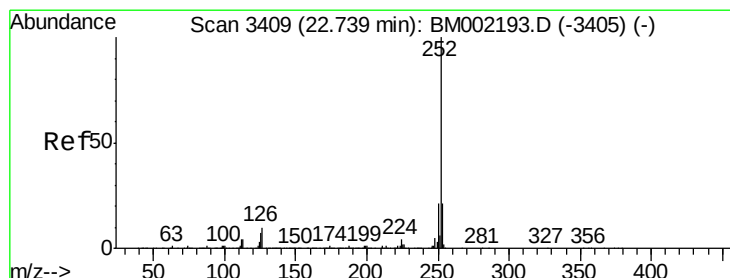
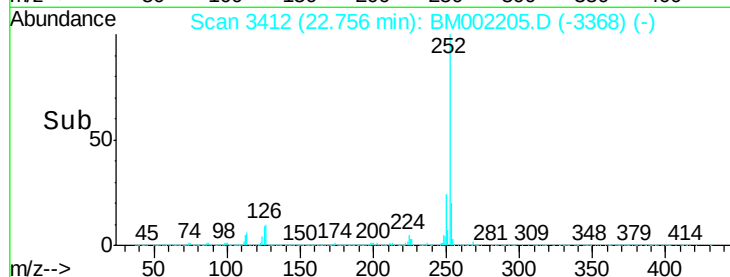
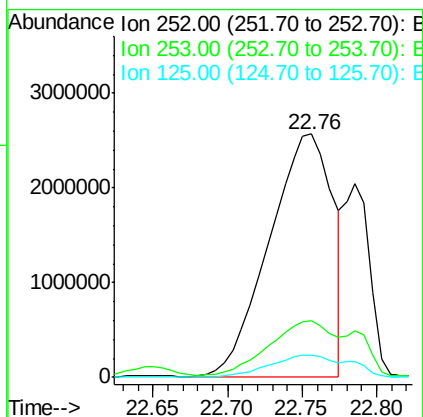
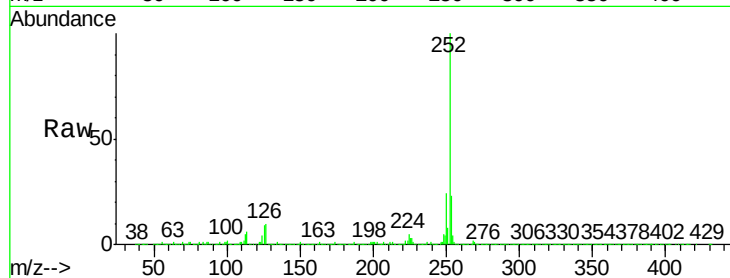




#88
Benzo(b)fluoranthene
Concen: 238.67 ng/ul
RT: 22.76 min Scan# 3412
Delta R.T. 0.06 min
Lab File: BM002205.D
Acq: 03 Aug 2015 19:49

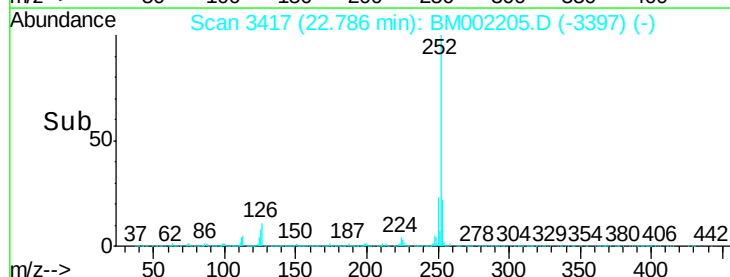
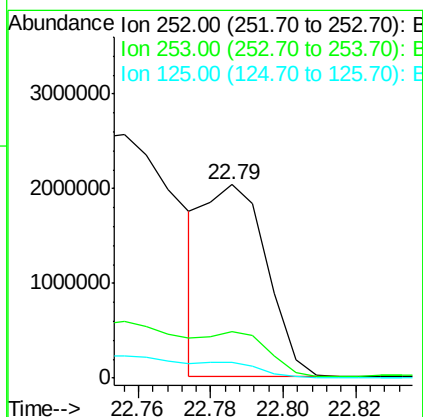
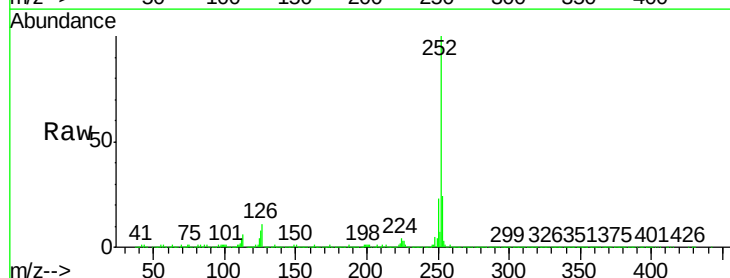
Instrument :
BNA_M
ClientSampleId :
C01S3

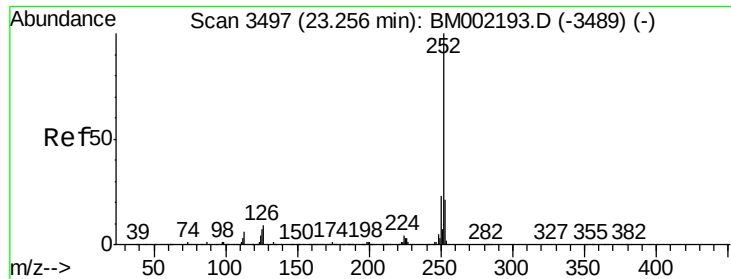
Tgt Ion:252 Resp: 7574316
Ion Ratio Lower Upper
252 100
253 23.2 16.9 25.3
125 9.0 6.2 9.2



#89
Benzo(k)fluoranthene
Concen: 78.31 ng/ul
RT: 22.79 min Scan# 3417
Delta R.T. 0.05 min
Lab File: BM002205.D
Acq: 03 Aug 2015 19:49

Tgt Ion:252 Resp: 2397772
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.0
125 8.2 6.2 9.4





#91

Benzo(a)pyrene

Concen: 183.15 ng/ul

RT: 23.32 min Scan# 3508

Delta R.T. 0.06 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

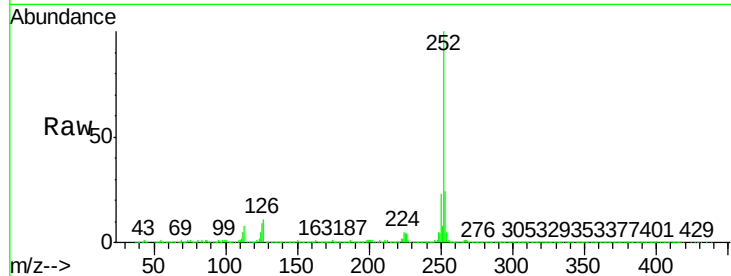
Tgt Ion:252 Resp: 5610444

Ion Ratio Lower Upper

252 100

253 23.8 17.2 25.8

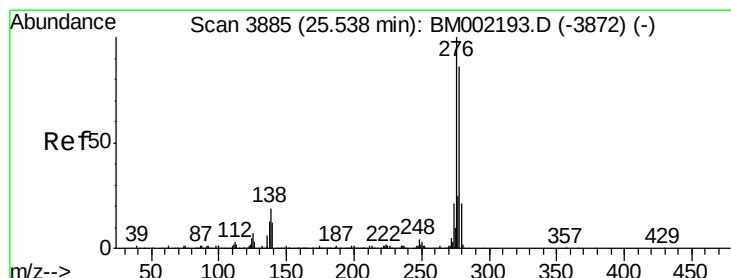
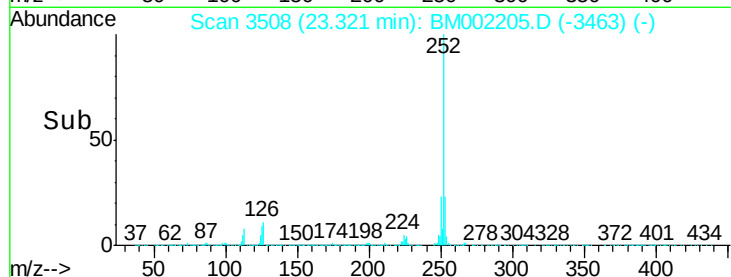
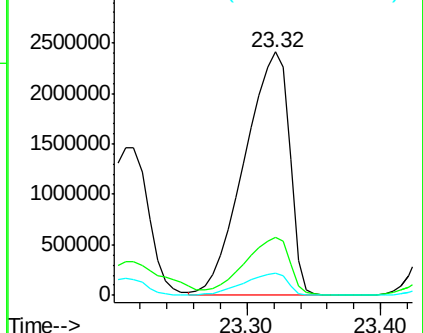
125 9.2 6.6 10.0



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 106.72 ng/ul

RT: 25.65 min Scan# 3904

Delta R.T. 0.11 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

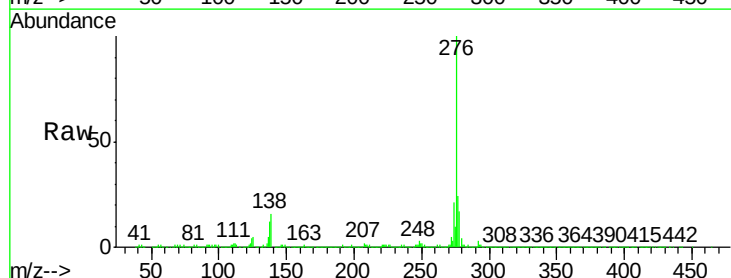
Tgt Ion:276 Resp: 3767091

Ion Ratio Lower Upper

276 100

138 15.9 16.2 24.2#

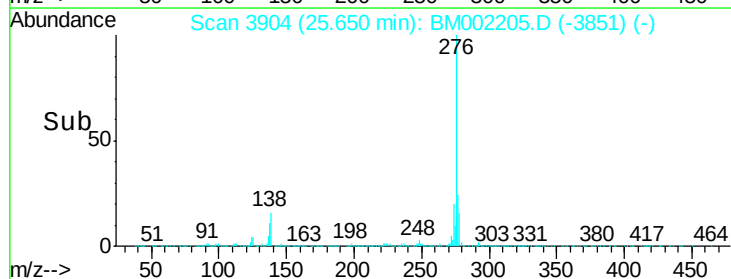
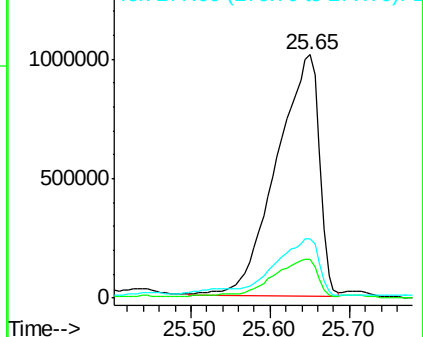
277 24.4 19.8 29.8

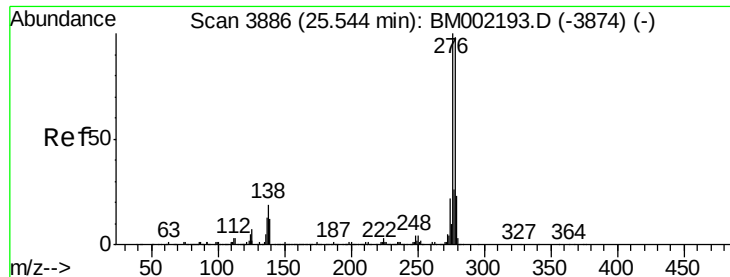


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 31.43 ng/ul

RT: 25.63 min Scan# 3900

Delta R.T. 0.08 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

Instrument :

BNA_M

ClientSampleId :

C01S3

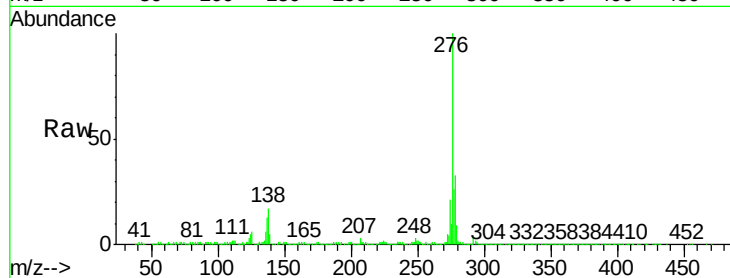
Tgt Ion:278 Resp: 949410

Ion Ratio Lower Upper

278 100

139 16.3 10.6 16.0#

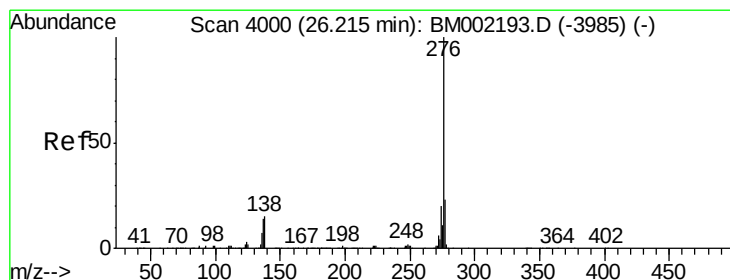
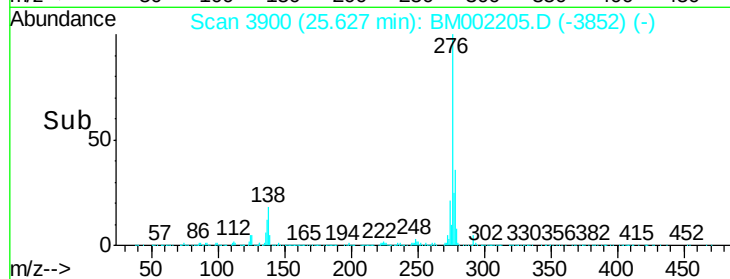
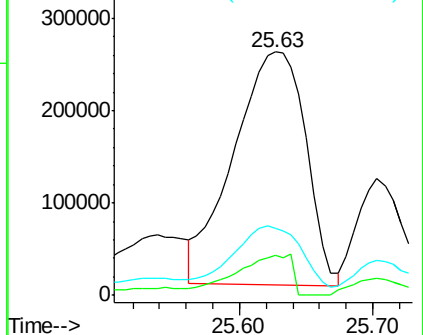
279 27.4 18.5 27.7



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: 113.54 ng/ul

RT: 26.34 min Scan# 4021

Delta R.T. 0.12 min

Lab File: BM002205.D

Acq: 03 Aug 2015 19:49

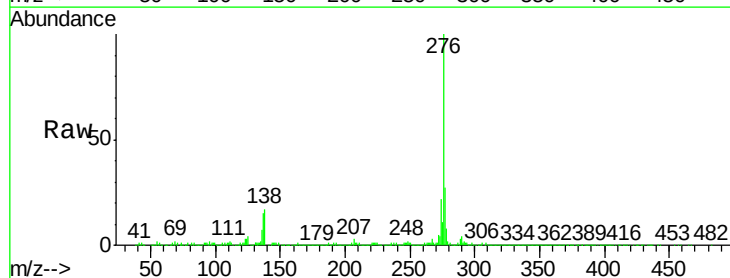
Tgt Ion:276 Resp: 3359773

Ion Ratio Lower Upper

276 100

138 17.3 13.8 20.6

277 26.5 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

