

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011616\
 Data File : BM004050.D
 Acq On : 15 Jan 2016 16:36
 Operator : SJ/UM
 Sample : H1100-09
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BC990

Quant Time: Jan 16 00:38:31 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Jan 16 00:22:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	40710	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	193108	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.32	164	111246	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.07	188	236405	20.00	ng/ul	0.00
78) Chrysene-d12	21.28	240	181121	20.00	ng/ul	0.00
86) Perylene-d12	23.51	264	169855	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.13	96	3246	3.57	ng/uL	0.00
5) Phenol-d5	6.85	99	78056	23.09	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	45425	23.78	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	66610	23.98	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	52033	19.00	ng/ul	0.00
19) Nitrobenzene-d5	8.82	128	34359	23.62	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	37256	23.37	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	64652	22.82	ng/ul	0.00
29) 4-Chloroaniline-d4	10.59	131	70975	18.98	ng/ul	0.00
44) Dimethylphthalate-d6	13.73	166	209388	23.97	ng/ul	0.00
47) Acenaphthylene-d8	14.01	160	262558	24.68	ng/ul	0.00
52) 4-Nitrophenol-d4	14.54	143	25314	16.14	ng/ul	0.00
58) Fluorene-d10	15.32	176	185022	24.98	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.46	200	14174	10.63	ng/ul	0.00
71) Anthracene-d10	17.17	188	266194	24.35	ng/ul	0.00
79) Pyrene-d10	19.48	212	254199	27.10	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.37	264	212080	25.00	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.50	128	10842	1.08	ng/ul	98
34) 2-Methylnaphthalene	12.12	142	8809	1.24	ng/ul	99
35) 1-Methylnaphthalene	12.35	142	11416	1.69	ng/ul#	97
45) Dimethylphthalate	13.78	163	82256	9.24	ng/ul	100
48) Acenaphthylene	14.04	152	20266	1.74	ng/ul	97
50) Acenaphthene	14.39	153	37317	4.84	ng/ul	99
54) Dibenzofuran	14.72	168	27350	2.53	ng/ul	100
59) Fluorene	15.37	166	55510	6.48	ng/ul	99
70) Phenanthrene	17.12	178	670093	50.41	ng/ul	100
72) Anthracene	17.20	178	186463	13.67	ng/ul	100
75) Carbazole	17.48	167	16386	1.37	ng/ul	95
77) Fluoranthene	19.14	202	768122	55.60	ng/ul	99
80) Pyrene	19.51	202	766729	62.36	ng/ul	99
83) Benzo(a)anthracene	21.26	228	325212	30.15	ng/ul	98
85) Chrysene	21.32	228	317504	30.98	ng/ul	98
88) Benzo(b)fluoranthene	22.85	252	312836	30.30	ng/ul	98
89) Benzo(k)fluoranthene	22.85	252	132276	13.46	ng/ul	97
91) Benzo(a)pyrene	23.42	252	240721	24.58	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	25.77	276	136946	12.64	ng/ul	96
93) Dibenzo(a,h)anthracene	25.77	278	41955	4.61	ng/ul#	78
94) Benzo(g,h,i)perylene	26.46	276	110339	12.13	ng/ul	98

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011616\
Data File : BM004050.D
Acq On : 15 Jan 2016 16:36
Operator : SJ/UM
Sample : H1100-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BC990

Quant Time: Jan 16 00:38:31 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Jan 16 00:22:06 2016
Response via : Initial Calibration

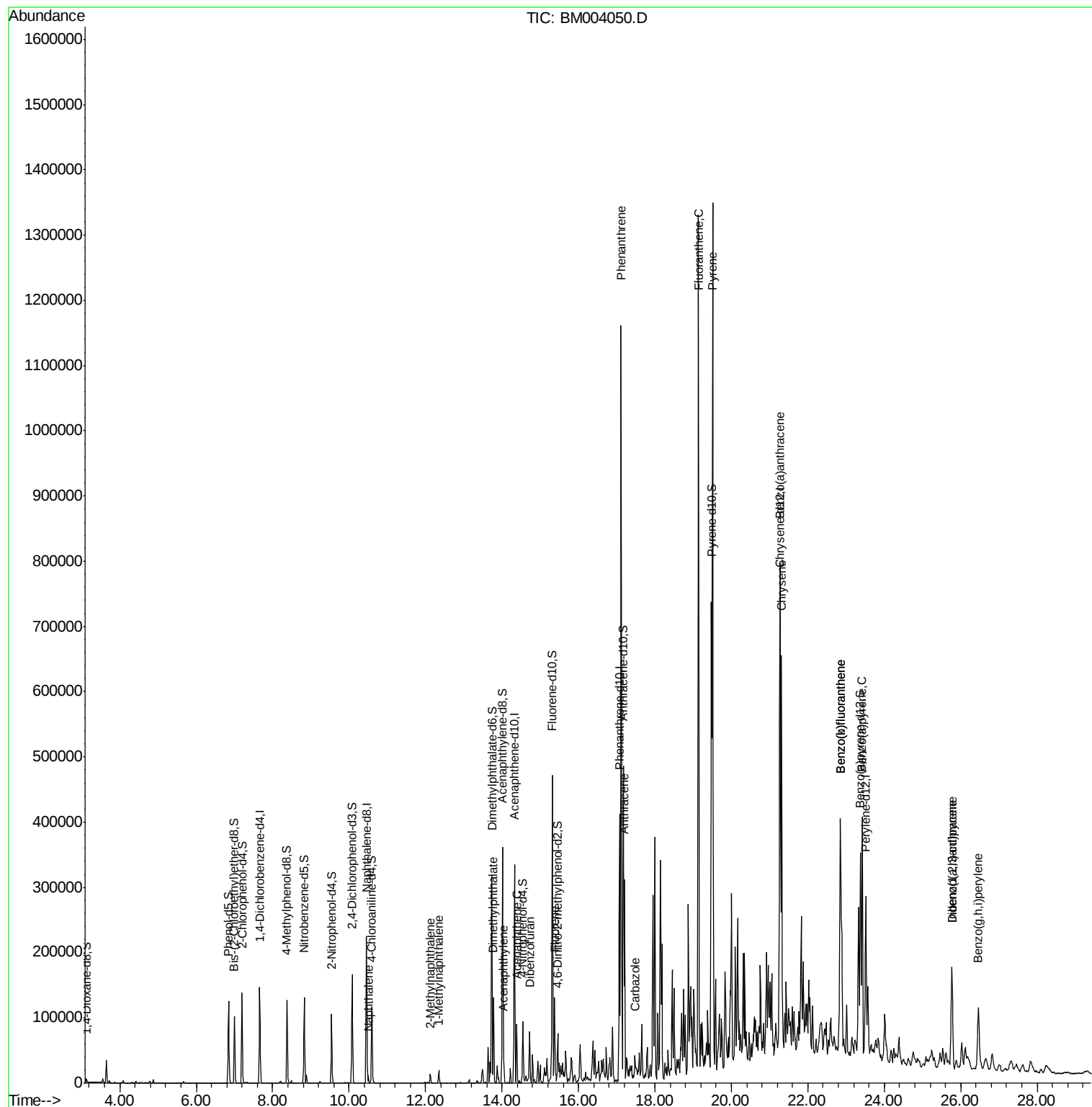
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

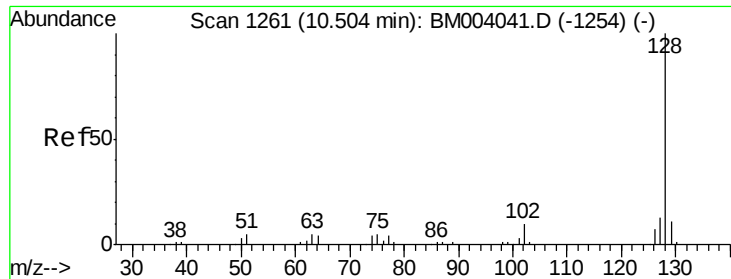
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011616\
Data File : BM004050.D
Acq On : 15 Jan 2016 16:36
Operator : SJ/UM
Sample : H1100-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BC990

Quant Time: Jan 16 00:38:31 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Jan 16 00:22:06 2016
Response via : Initial Calibration

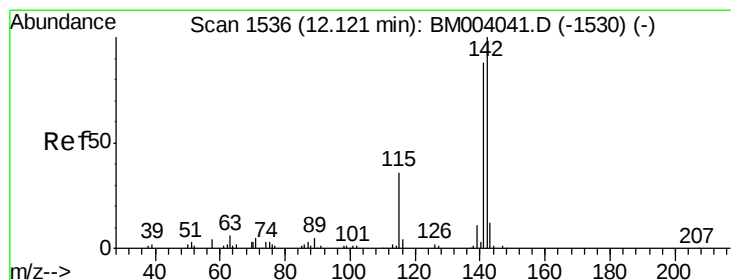
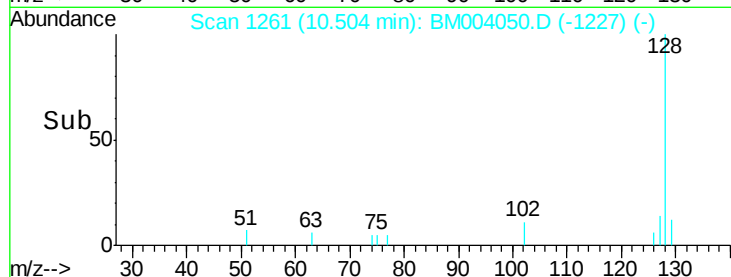
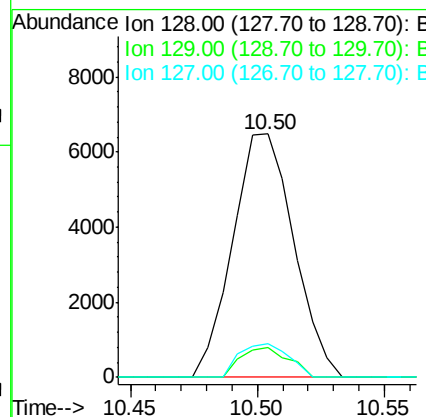
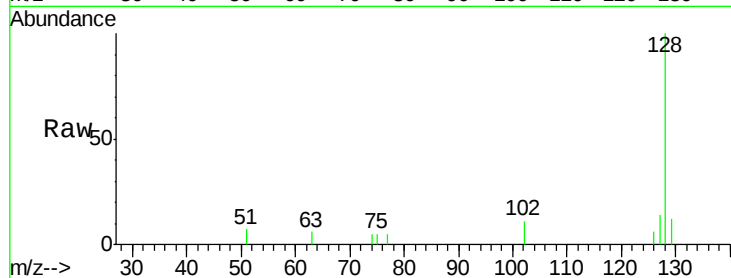




#28
Naphthalene
Concen: 1.08 ng/ul
RT: 10.50 min Scan# 1261
Delta R.T. 0.00 min
Lab File: BM004050.D
Acq: 15 Jan 2016 16:36

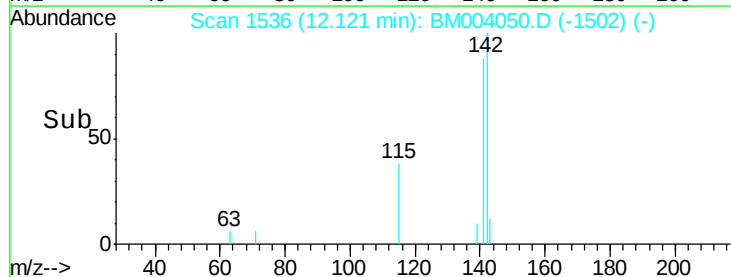
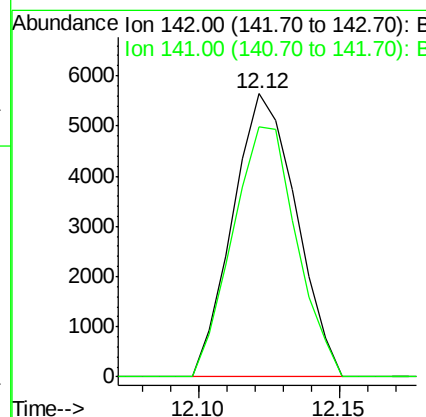
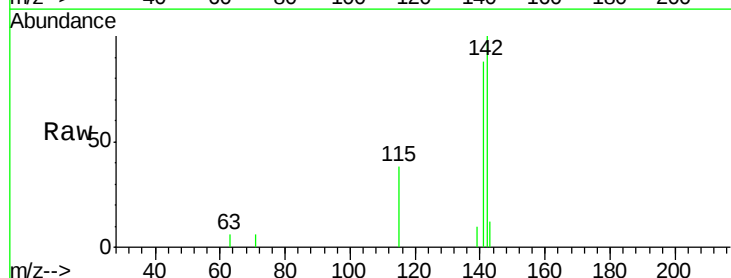
Instrument :
BNA_M
ClientSampleId :
BC990

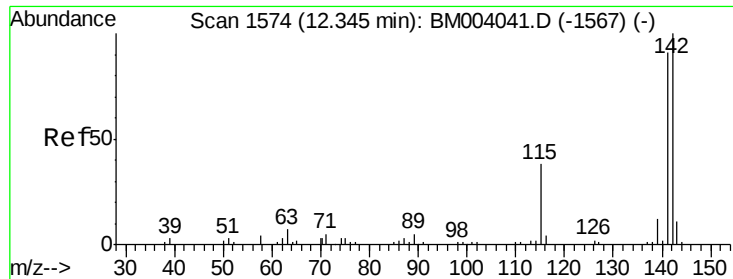
Tgt Ion:128 Resp: 10842
Ion Ratio Lower Upper
128 100
129 12.1 8.8 13.2
127 13.7 10.5 15.7



#34
2-Methylnaphthalene
Concen: 1.24 ng/ul
RT: 12.12 min Scan# 1536
Delta R.T. 0.00 min
Lab File: BM004050.D
Acq: 15 Jan 2016 16:36

Tgt Ion:142 Resp: 8809
Ion Ratio Lower Upper
142 100
141 88.3 71.6 107.4

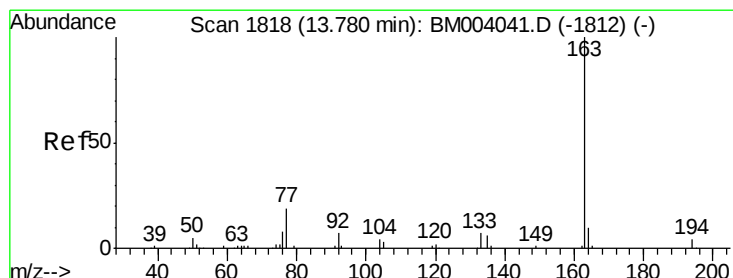
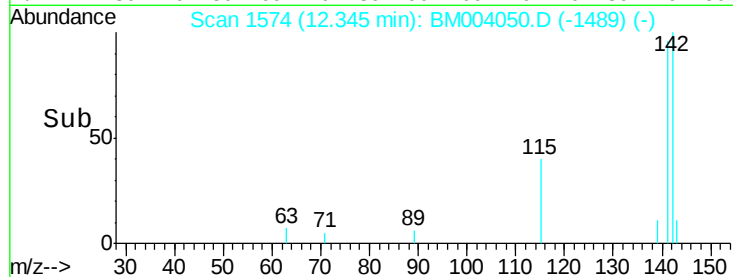
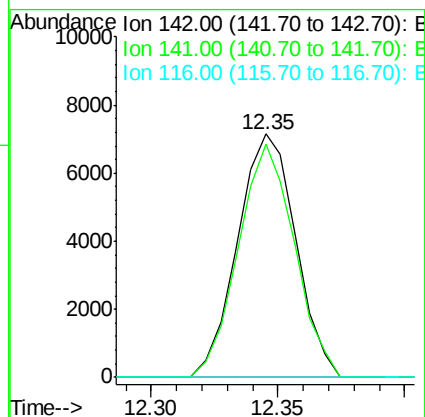
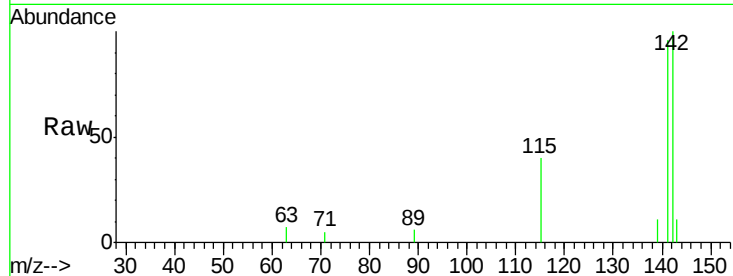




#35
 1-Methylnaphthalene
 Concen: 1.69 ng/ul
 RT: 12.35 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

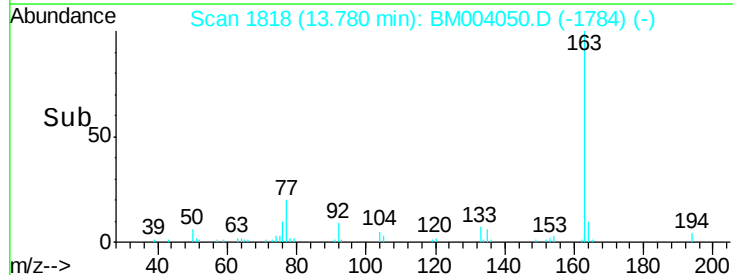
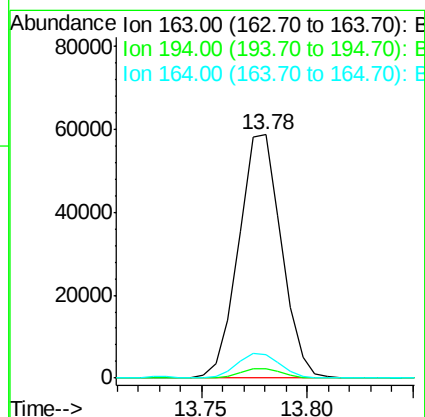
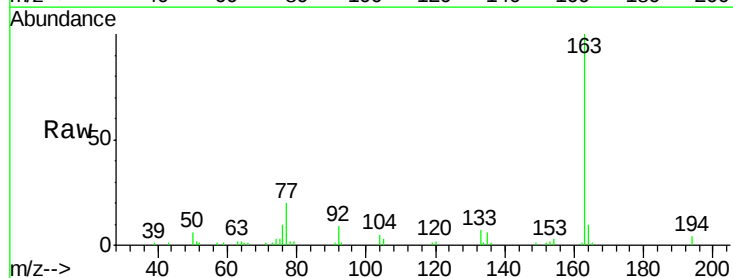
Instrument :
 BNA_M
 ClientSampleId :
 BC990

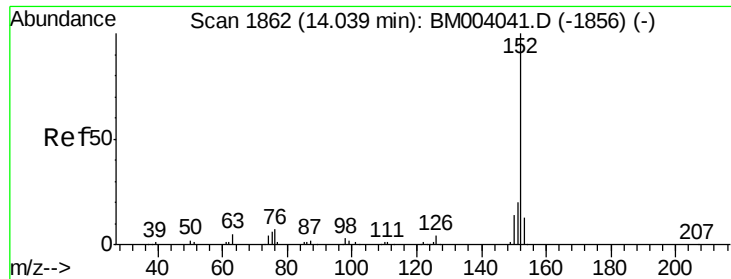
Tgt Ion:142 Resp: 11416
 Ion Ratio Lower Upper
 142 100
 141 95.8 74.9 112.3
 116 0.0 3.1 4.7#



#45
 Dimethylphthalate
 Concen: 9.24 ng/ul
 RT: 13.78 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

Tgt Ion:163 Resp: 82256
 Ion Ratio Lower Upper
 163 100
 194 4.0 3.2 4.8
 164 9.7 7.8 11.8





#48

Acenaphthylene

Concen: 1.74 ng/ul

RT: 14.04 min Scan# 1863

Delta R.T. 0.01 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990

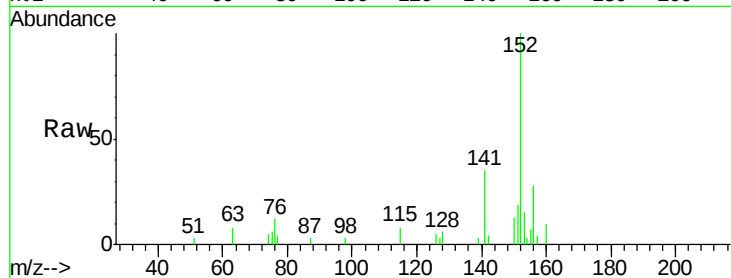
Tgt Ion:152 Resp: 20266

Ion Ratio Lower Upper

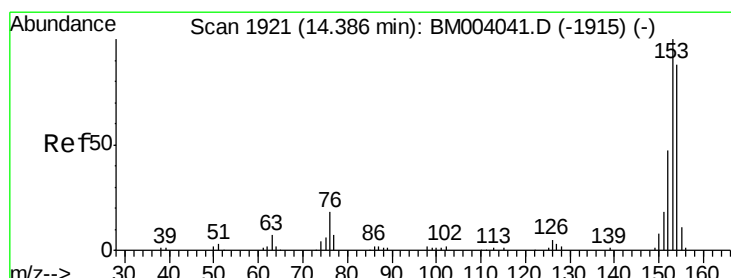
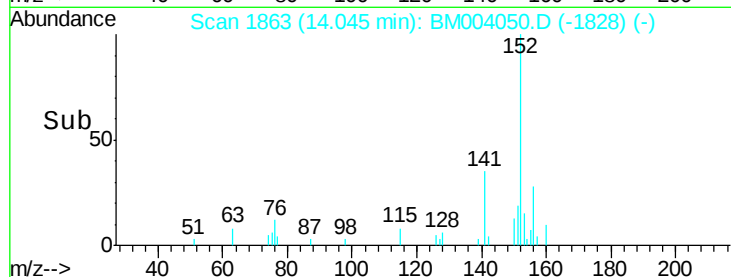
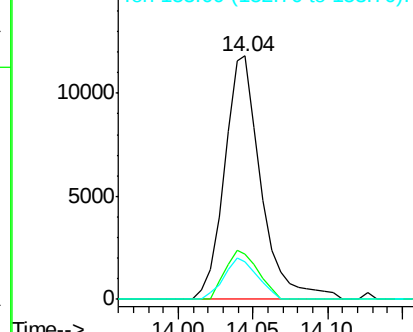
152 100

151 18.8 15.7 23.5

153 15.3 10.5 15.7



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: 4.84 ng/ul

RT: 14.39 min Scan# 1921

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

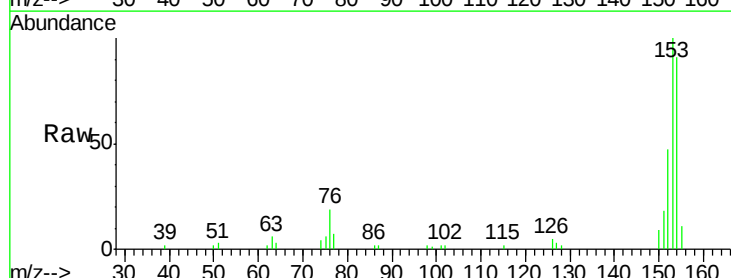
Tgt Ion:153 Resp: 37317

Ion Ratio Lower Upper

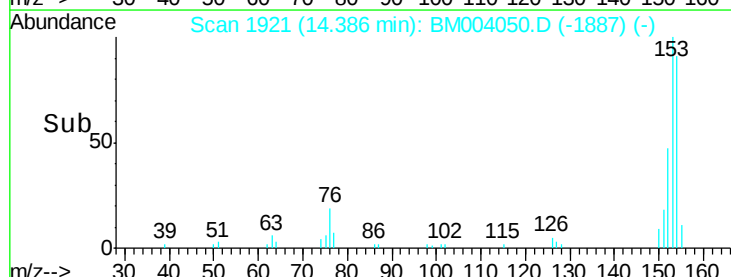
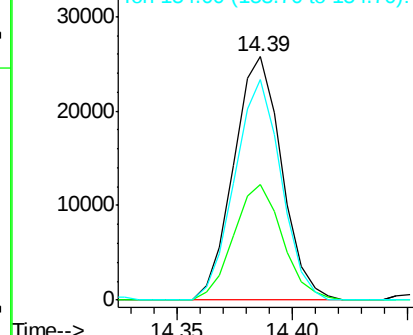
153 100

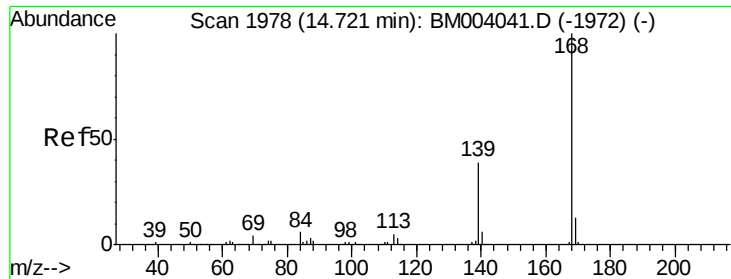
152 47.5 38.3 57.5

154 90.7 71.8 107.8



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: 2.53 ng/ul

RT: 14.72 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

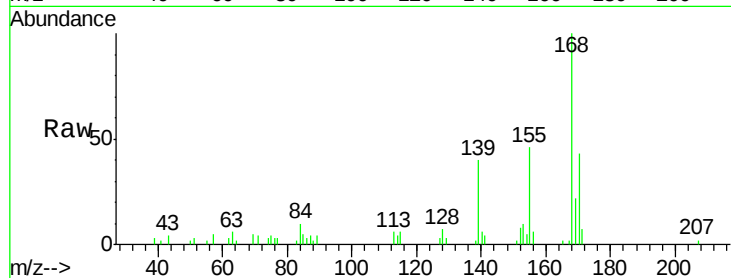
BC990

Tgt Ion:168 Resp: 27350

Ion Ratio Lower Upper

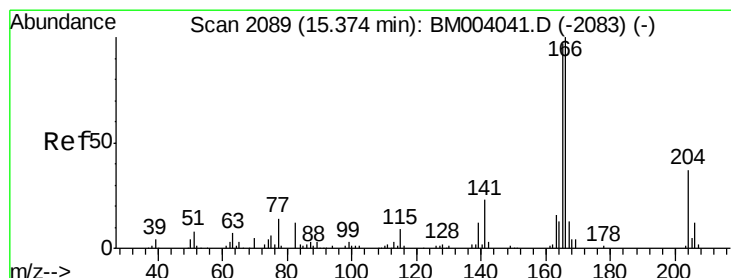
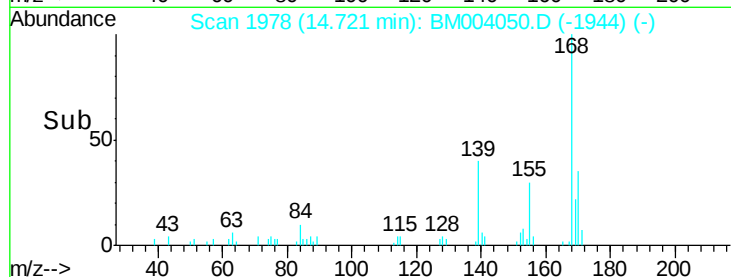
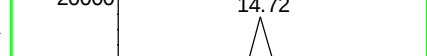
168 100

139 40.4 32.2 48.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 6.48 ng/ul

RT: 15.37 min Scan# 2089

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

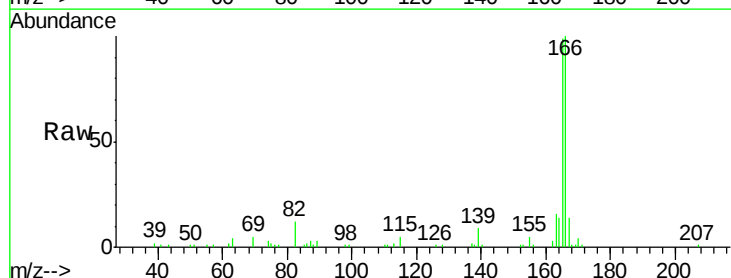
Tgt Ion:166 Resp: 55510

Ion Ratio Lower Upper

166 100

165 98.7 78.5 117.7

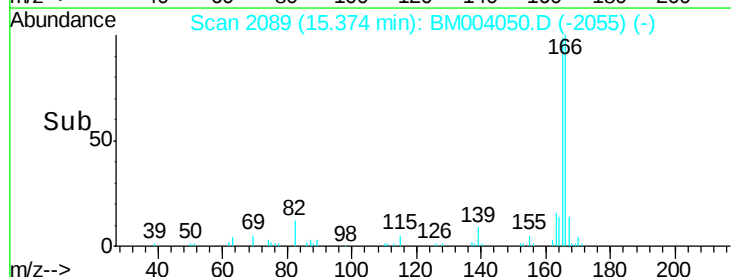
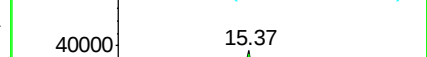
167 13.8 10.7 16.1

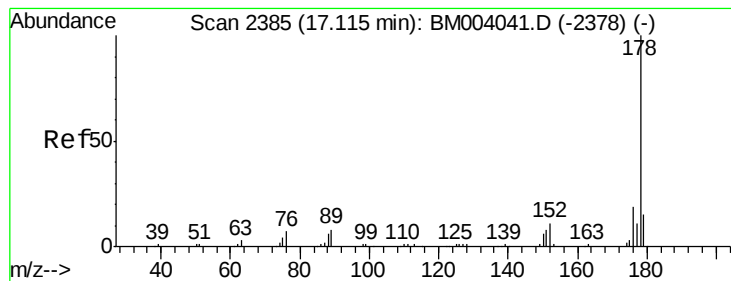


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 50.41 ng/ul

RT: 17.12 min Scan# 2385

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990

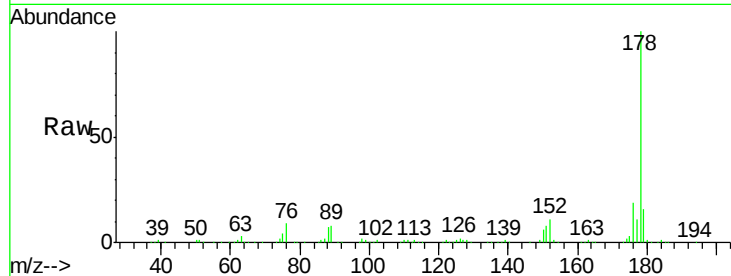
Tgt Ion:178 Resp: 670093

Ion Ratio Lower Upper

178 100

179 15.6 12.2 18.4

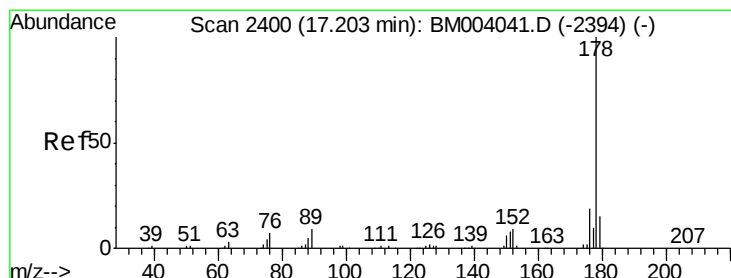
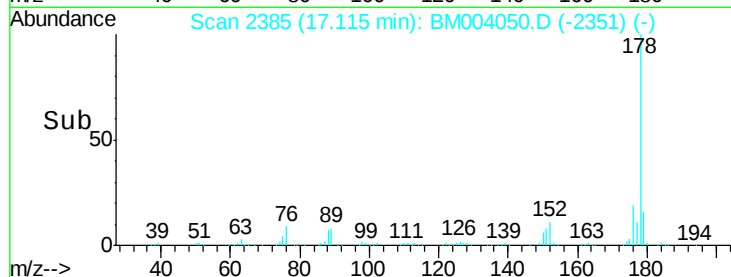
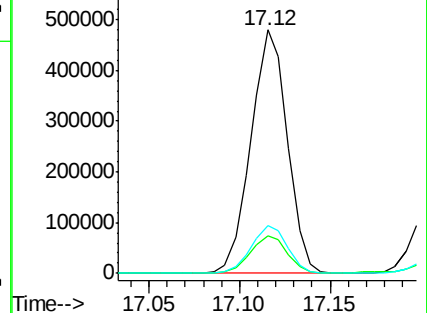
176 19.5 15.6 23.4



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: 13.67 ng/ul

RT: 17.20 min Scan# 2400

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

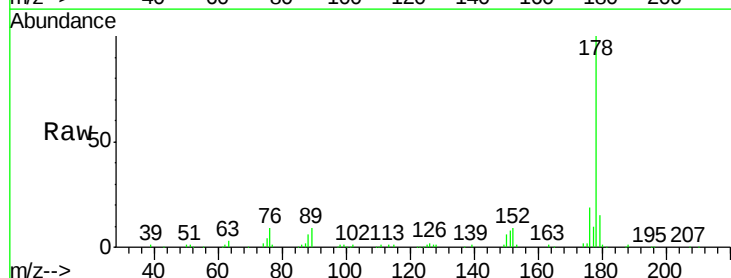
Tgt Ion:178 Resp: 186463

Ion Ratio Lower Upper

178 100

179 15.4 12.1 18.1

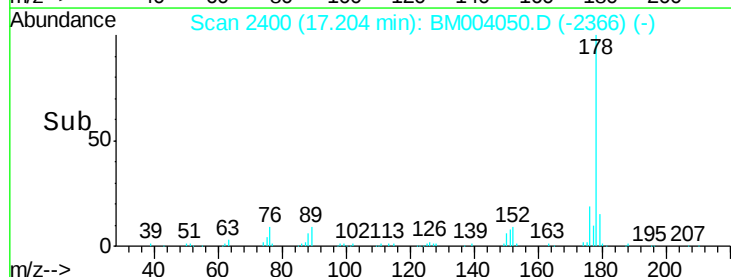
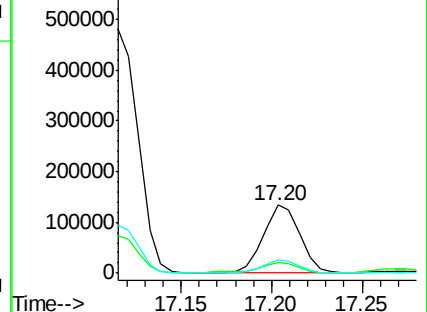
176 18.6 14.8 22.2

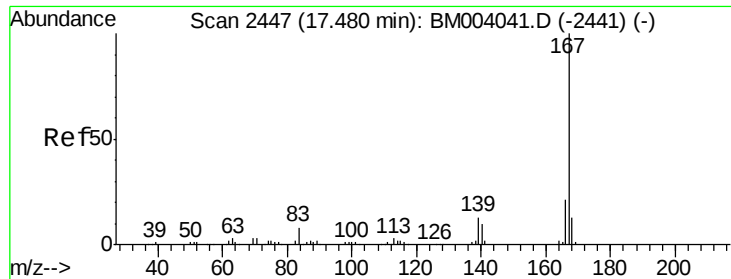


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

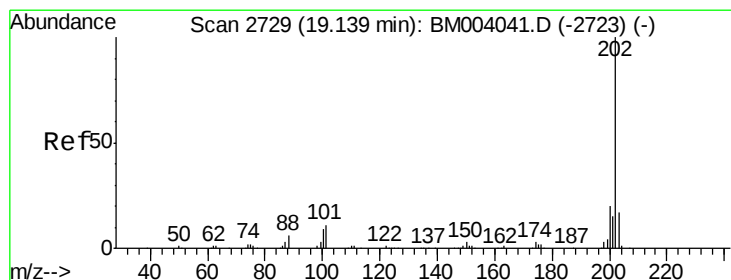
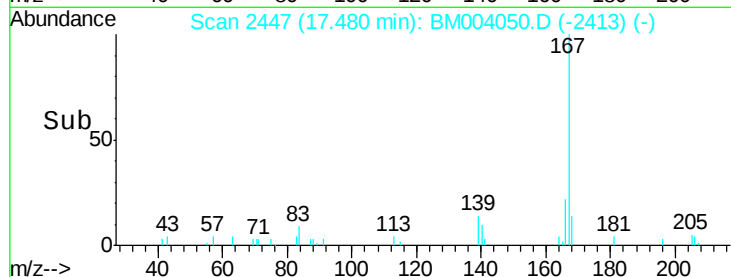
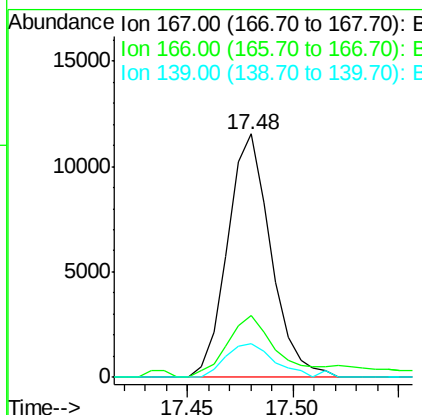
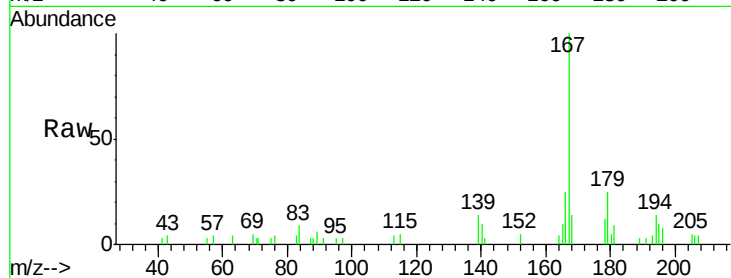




#75
 Carbazole
 Concen: 1.37 ng/ul
 RT: 17.48 min Scan# 2447
 Delta R.T. 0.00 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

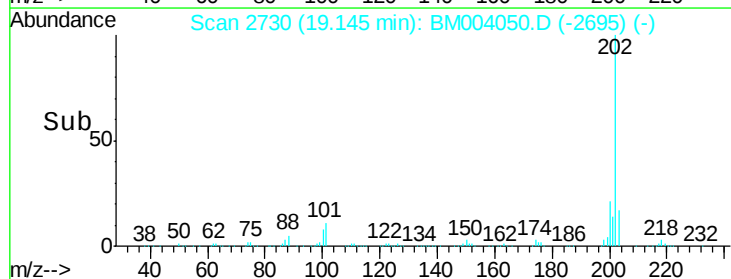
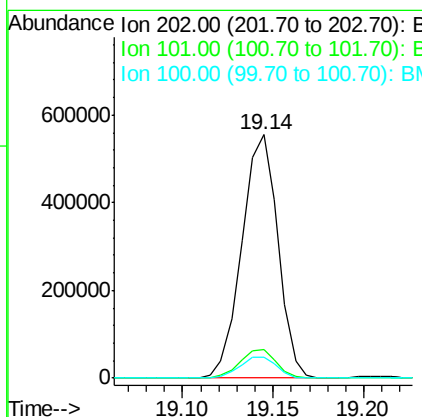
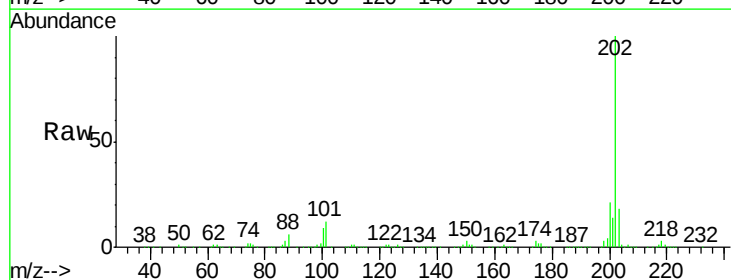
Instrument :
 BNA_M
 ClientSampleId :
 BC990

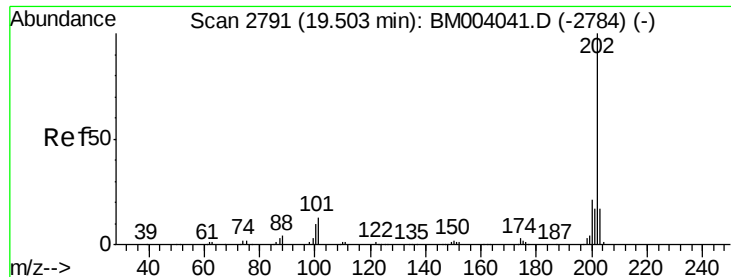
Tgt Ion:167 Resp: 16386
 Ion Ratio Lower Upper
 167 100
 166 25.2 17.0 25.6
 139 13.7 11.0 16.4



#77
 Fluoranthene
 Concen: 55.60 ng/ul
 RT: 19.14 min Scan# 2730
 Delta R.T. 0.01 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

Tgt Ion:202 Resp: 768122
 Ion Ratio Lower Upper
 202 100
 101 11.6 8.8 13.2
 100 8.6 6.6 9.8

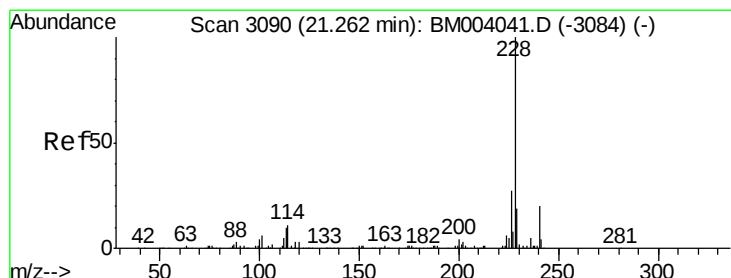
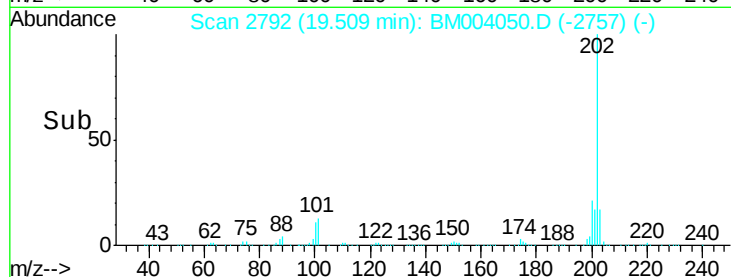
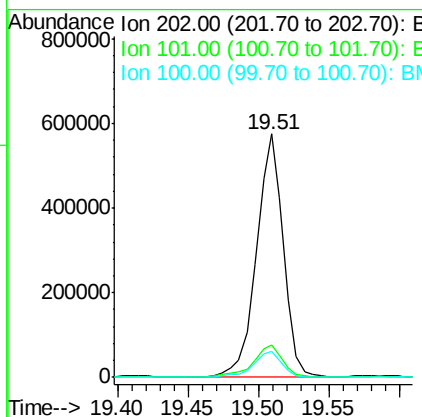
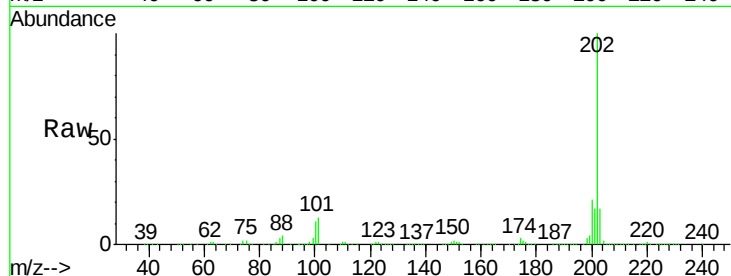




#80
 Pyrene
 Concen: 62.36 ng/ul
 RT: 19.51 min Scan# 2792
 Delta R.T. 0.01 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

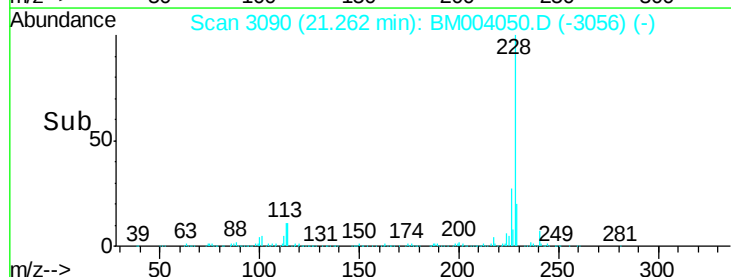
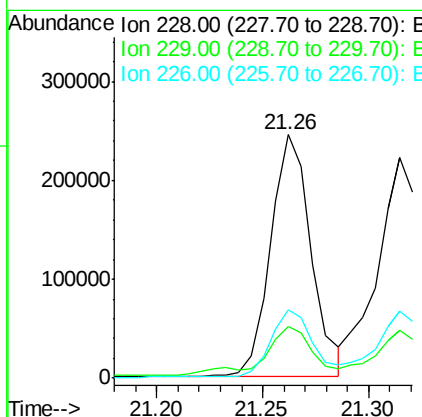
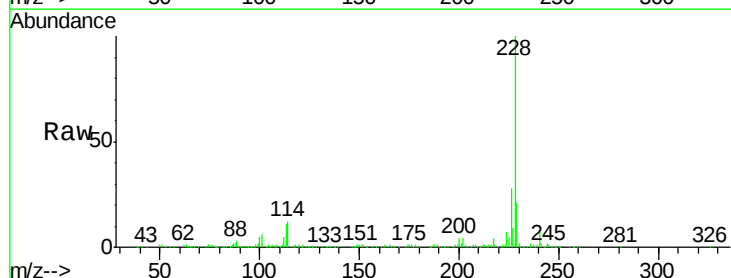
Instrument :
 BNA_M
 ClientSampleId :
 BC990

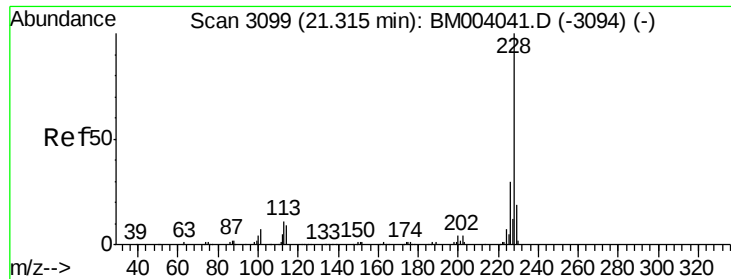
Tgt Ion:202 Resp: 766729
 Ion Ratio Lower Upper
 202 100
 101 13.4 10.2 15.2
 100 10.9 8.5 12.7



#83
 Benzo(a)anthracene
 Concen: 30.15 ng/ul
 RT: 21.26 min Scan# 3090
 Delta R.T. 0.00 min
 Lab File: BM004050.D
 Acq: 15 Jan 2016 16:36

Tgt Ion:228 Resp: 325212
 Ion Ratio Lower Upper
 228 100
 229 21.1 15.7 23.5
 226 28.0 21.8 32.6





#85

Chrysene

Concen: 30.98 ng/ul

RT: 21.32 min Scan# 3099

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990

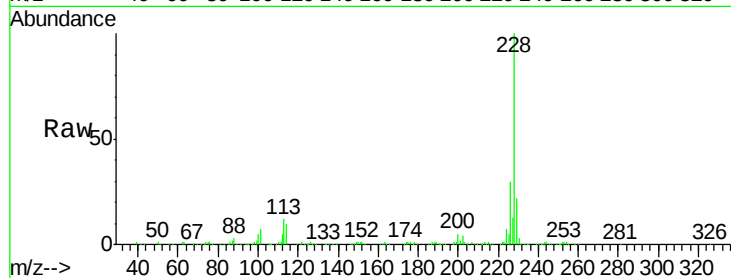
Tgt Ion:228 Resp: 317504

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

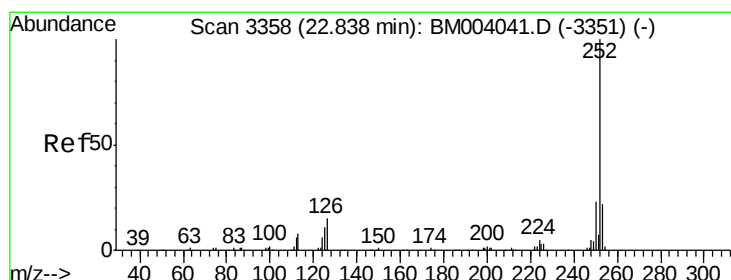
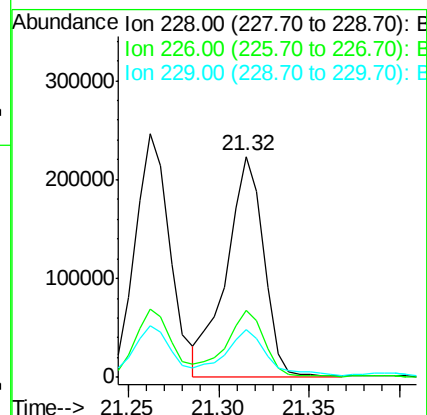
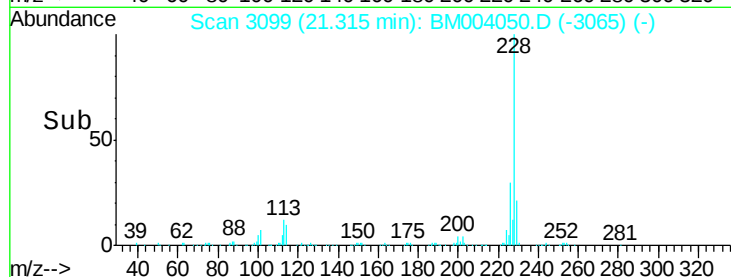
229 21.8 15.6 23.4



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: 30.30 ng/ul

RT: 22.85 min Scan# 3360

Delta R.T. 0.01 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

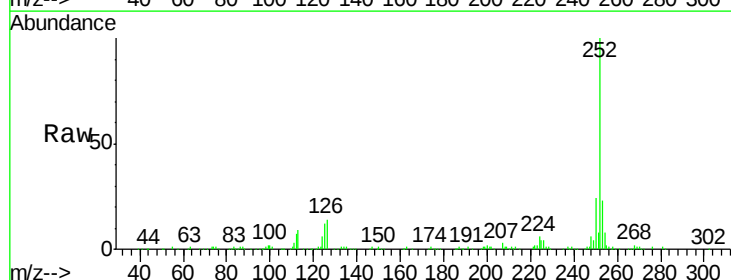
Tgt Ion:252 Resp: 312836

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

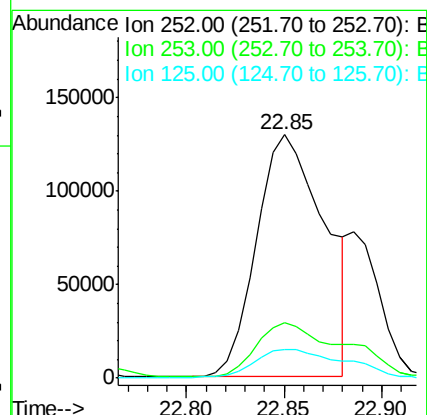
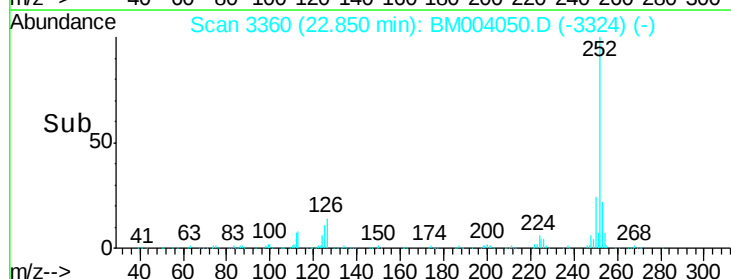
125 11.5 8.5 12.7

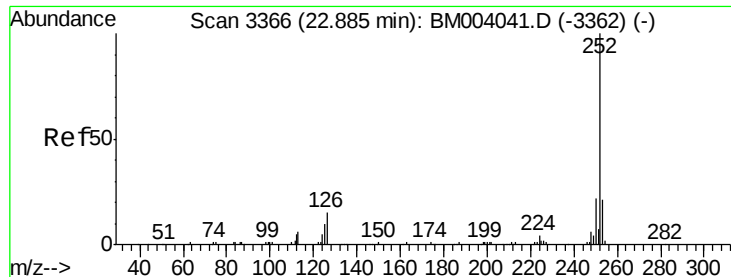


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 13.46 ng/ul

RT: 22.85 min Scan# 3360

Delta R.T. -0.04 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990

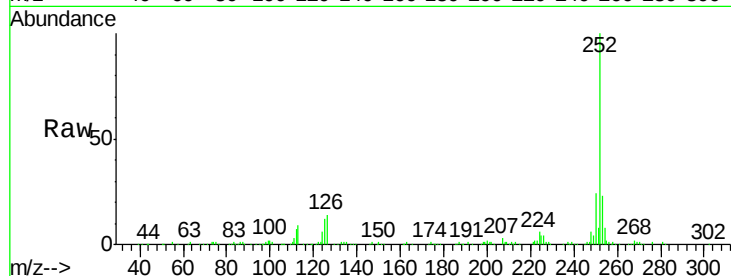
Tgt Ion:252 Resp: 132276

Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

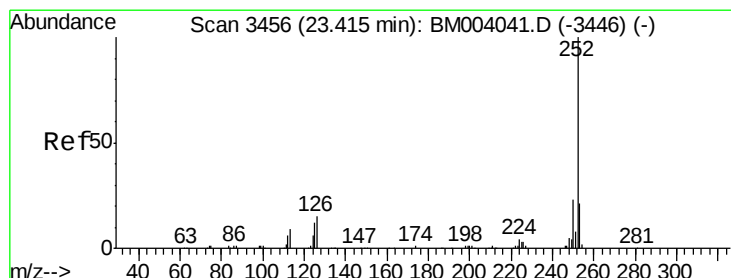
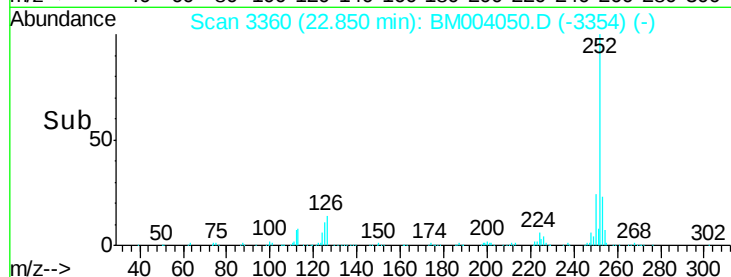
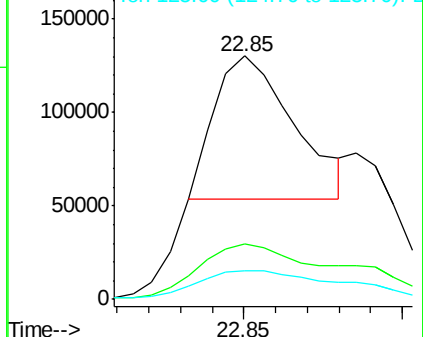
125 11.5 8.2 12.2



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



#91

Benzo(a)pyrene

Concen: 24.58 ng/ul

RT: 23.42 min Scan# 3457

Delta R.T. 0.01 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

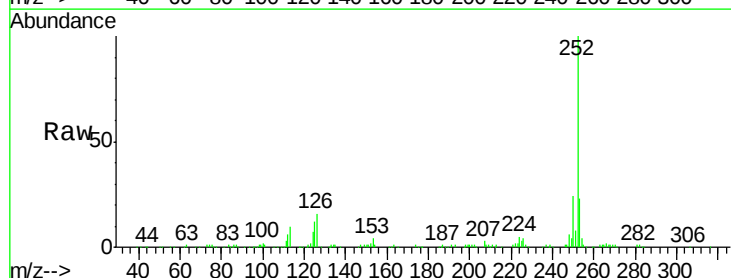
Tgt Ion:252 Resp: 240721

Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

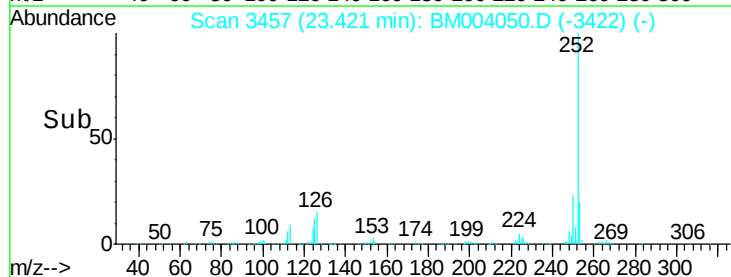
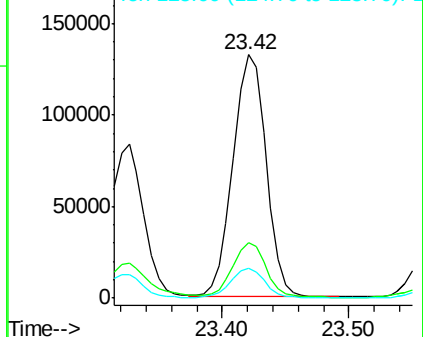
125 12.5 9.0 13.6

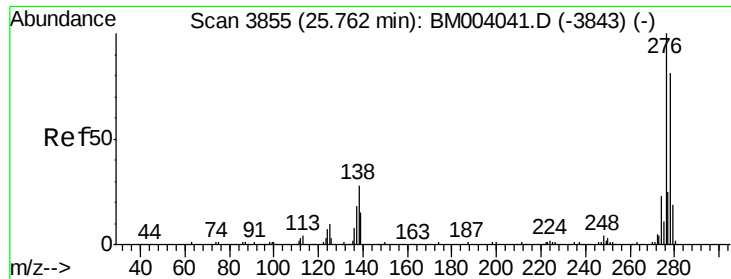


Abundance Ion 252.00 (251.70 to 252.70): E

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: 12.64 ng/ul

RT: 25.77 min Scan# 3856

Delta R.T. 0.01 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990

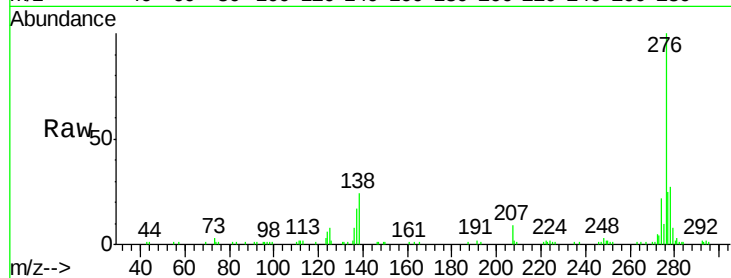
Tgt Ion:276 Resp: 136946

Ion Ratio Lower Upper

276 100

138 24.4 22.3 33.5

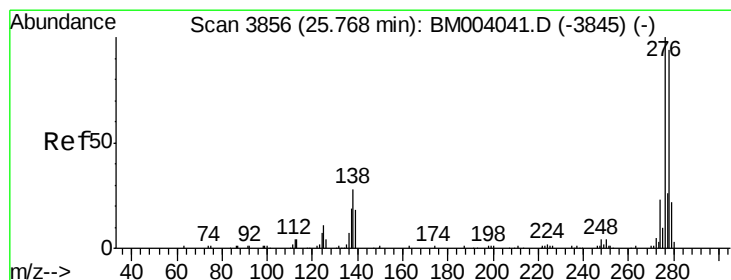
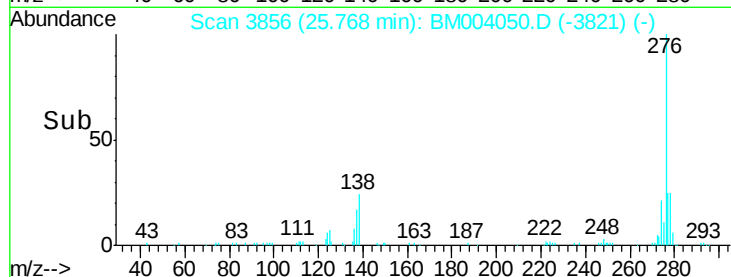
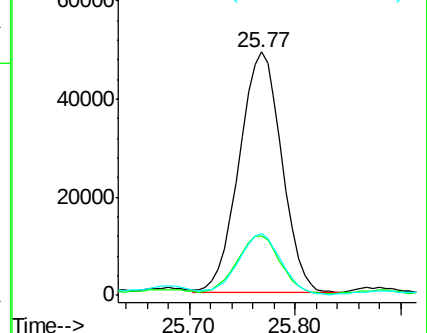
277 25.3 20.2 30.2



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



#93

Dibenzo(a,h)anthracene

Concen: 4.61 ng/ul

RT: 25.77 min Scan# 3856

Delta R.T. 0.00 min

Lab File: BM004050.D

Acq: 15 Jan 2016 16:36

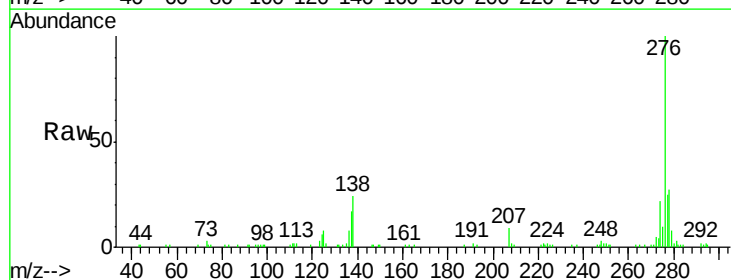
Tgt Ion:278 Resp: 41955

Ion Ratio Lower Upper

278 100

139 0.0 13.9 20.9#

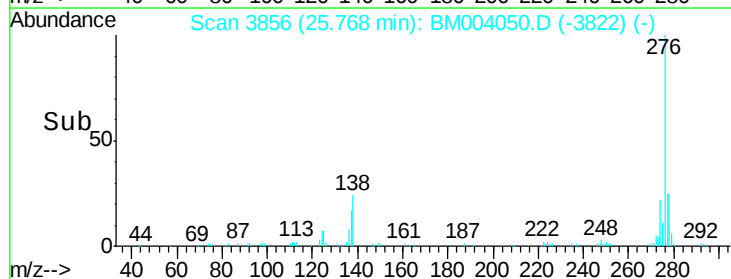
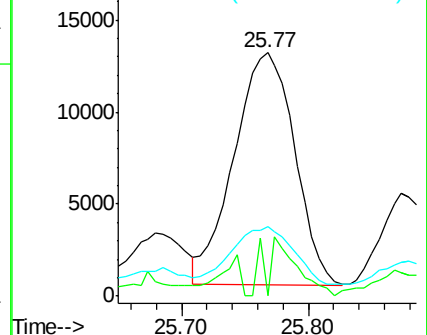
279 28.3 19.0 28.4

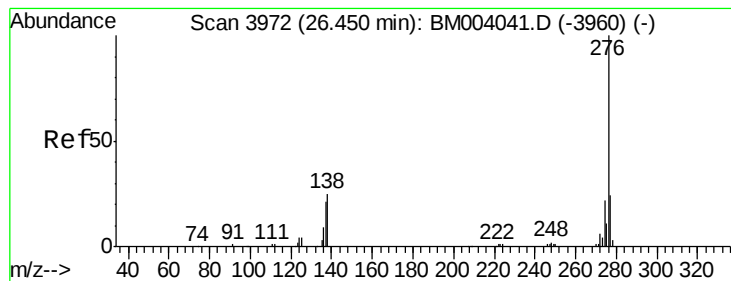


Abundance Ion 278.00 (277.70 to 278.70): E

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: 12.13 ng/ul

RT: 26.46 min Scan# 3974

Delta R.T. 0.01 min

Lab File: BM004050.D

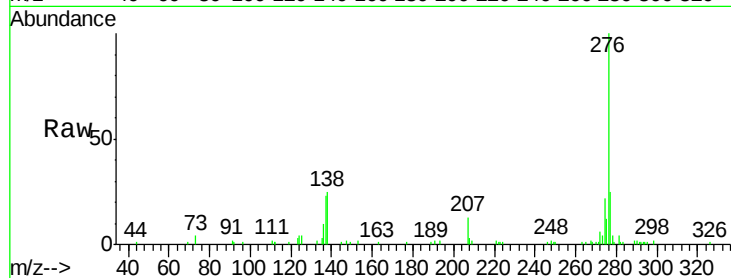
Acq: 15 Jan 2016 16:36

Instrument :

BNA_M

ClientSampleId :

BC990



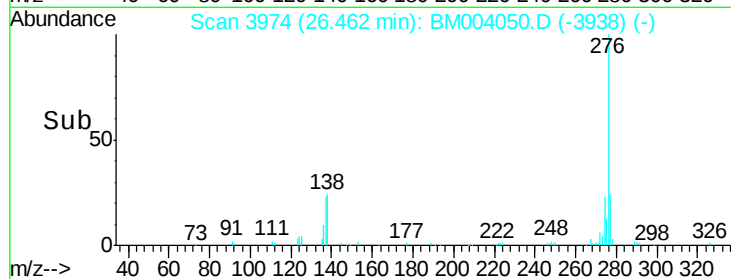
Tgt Ion: 276 Resp: 110339

Ion Ratio Lower Upper

276 100

138 24.9 18.9 28.3

277 24.6 19.2 28.8



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

