

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM072116\
 Data File : BM006602.D
 Acq On : 22 Jul 2016 00:39
 Operator : UM/SJ
 Sample : H4078-10
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9YS4

Quant Time: Jul 22 03:23:40 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jul 22 01:56:00 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	163886	20.00	ng/ul	0.00
7) Naphthalene-d8	10.39	136	687195	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.26	164	376977	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.02	188	857546	20.00	ng/ul	0.00
29) Chrysene-d12	21.22	240	918020	20.00	ng/ul	0.00
34) Perylene-d12	23.42	264	1060908	20.00	ng/ul	0.00

System Monitoring Compounds

2) 1,4-Dioxane-d8	3.14	96	6008	1.48	ng/uL	0.00
3) Phenol-d5	6.79	99	213174	15.29	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	6.95	67	148104	17.15	ng/ul	0.00
5) 2-Chlorophenol-d4	7.15	132	178082	15.98	ng/ul	0.00
6) 4-Methylphenol-d8	8.32	113	138611	12.82	ng/ul	0.00
8) Nitrobenzene-d5	8.76	128	84852	16.31	ng/ul	0.00
9) 2-Nitrophenol-d4	9.48	143	92292	16.68	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.02	165	165733	15.85	ng/ul	0.00
12) 4-Chloroaniline-d4	10.53	131	166555	14.47	ng/ul	0.00
16) Dimethylphthalate-d6	13.67	166	499909	16.91	ng/ul	0.00
17) Acenaphthylene-d8	13.95	160	651027	17.26	ng/ul	0.00
20) 4-Nitrophenol-d4	14.49	143	58052	11.31	ng/ul	0.00
21) Fluorene-d10	15.26	176	461677	17.46	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.40	200	49080	11.03	ng/ul	0.00
26) Anthracene-d10	17.11	188	718415	17.64	ng/ul	0.00
30) Pyrene-d10	19.42	212	798564	19.09	ng/ul	0.00
37) Benzo(a)pyrene-d12	23.28	264	868186	17.79	ng/ul	0.01

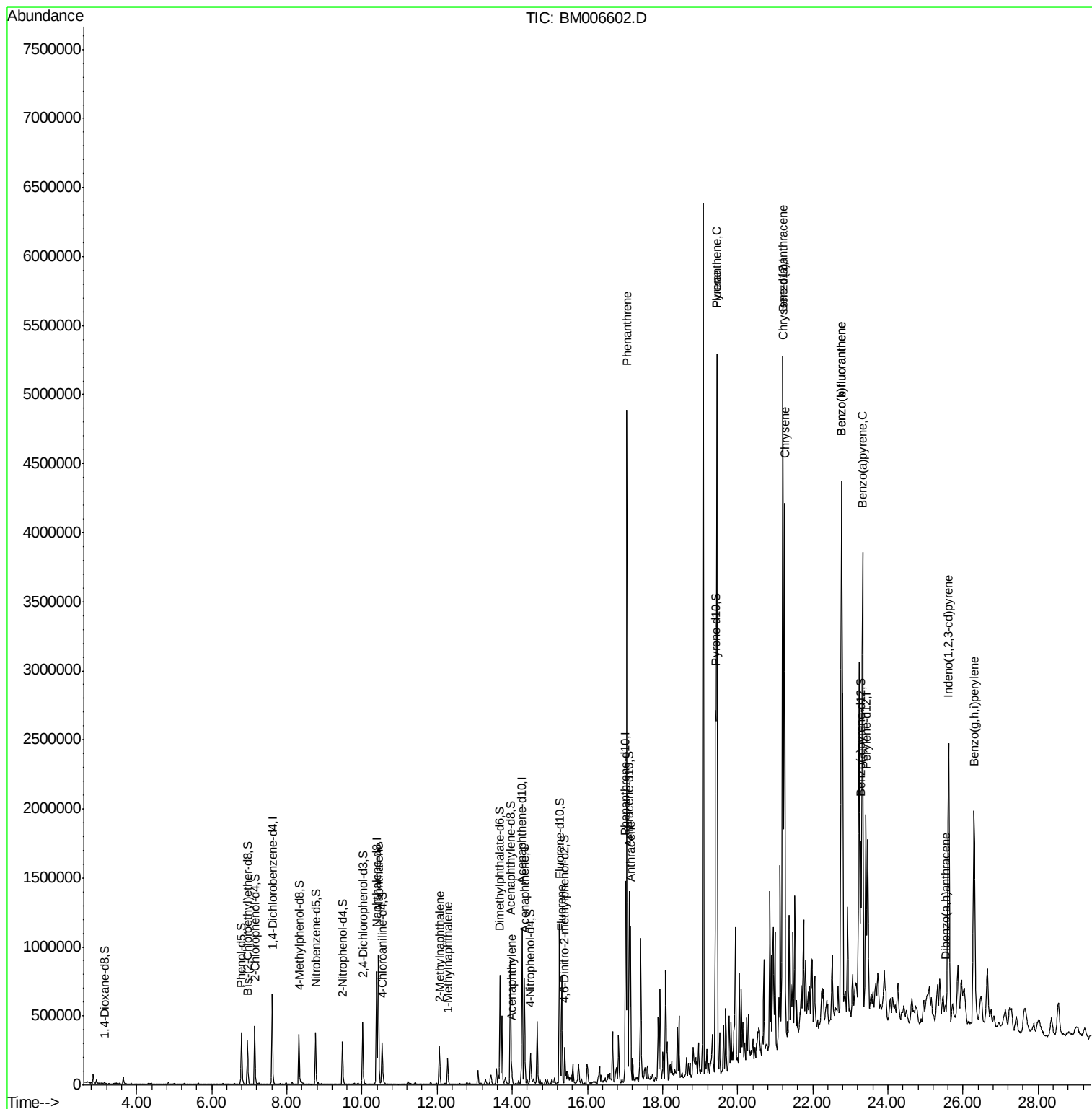
Target Compounds

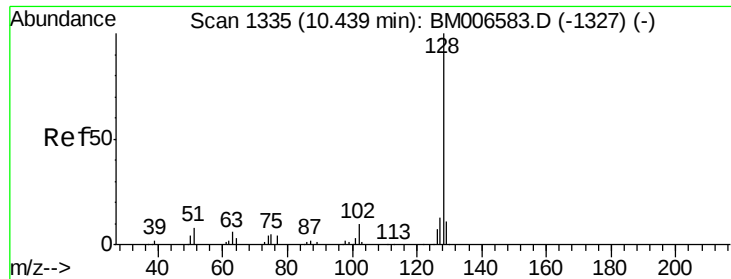
					Qvalue
11) Naphthalene	10.44	128	748720	21.13 ng/ul	99
13) 2-Methylnaphthalene	12.06	142	144662	5.56 ng/ul	95
14) 1-Methylnaphthalene	12.28	142	93701	3.78 ng/ul#	93
18) Acenaphthylene	13.99	152	68421	1.69 ng/ul	94
19) Acenaphthene	14.33	153	315120	12.14 ng/ul	96
22) Fluorene	15.32	166	342035	11.69 ng/ul	95
25) Phenanthrene	17.06	178	3187430	66.09 ng/ul	97
27) Anthracene	17.14	178	689705	13.89 ng/ul	98
28) Fluoranthene	19.45	202	3545211	62.57 ng/ul	100
31) Pyrene	19.45	202	3545211	63.78 ng/ul#	95
32) Benzo(a)anthracene	21.20	228	2287687	41.12 ng/ul	98
33) Chrysene	21.26	228	2364158	46.09 ng/ul	97
35) Benzo(b)fluoranthene	22.76	252	3721337	58.51 ng/ul	99
36) Benzo(k)fluoranthene	22.76	252	3721337	60.52 ng/ul	99
38) Benzo(a)pyrene	23.33	252	2498074	40.36 ng/ul	97
39) Indeno(1,2,3-cd)pyrene	25.62	276	2053648	28.65 ng/ul	98
40) Dibenzo(a,h)anthracene	25.53	278	94758	1.59 ng/ul	94
41) Benzo(g,h,i)perylene	26.30	276	1943200	31.63 ng/ul	97

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

```
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Sample    : H4078-10  
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Quant Title : SVOA CALIBRATION
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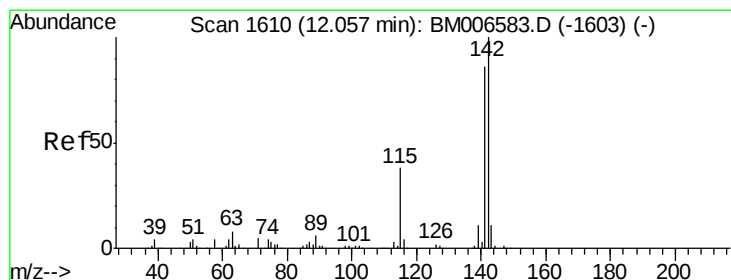
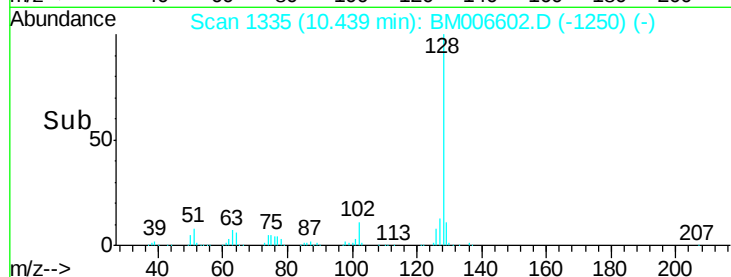
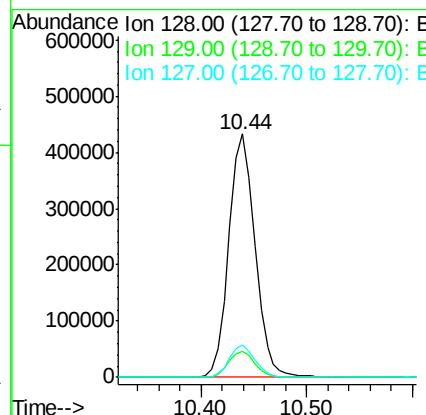
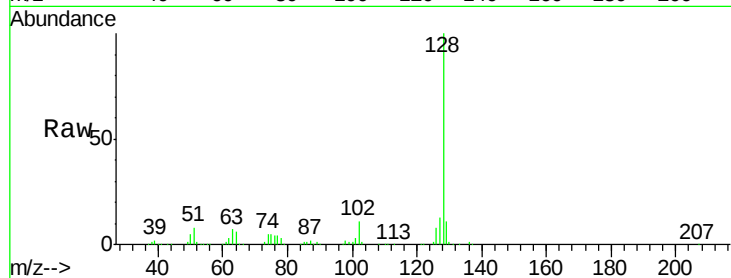




#11
Naphthalene
Concen: 21.13 ng/ul
RT: 10.44 min Scan# 1335
Delta R.T. 0.00 min
Lab File: BM006602.D
Acq: 22 Jul 2016 00:39

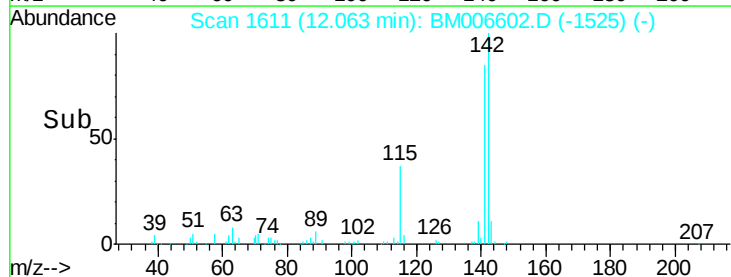
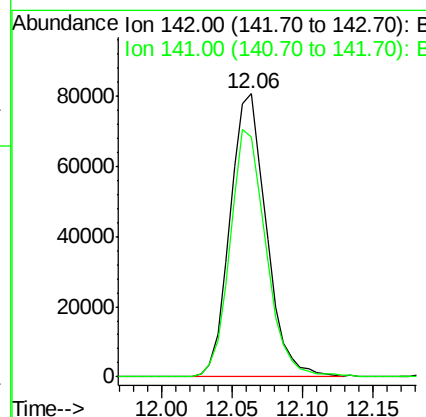
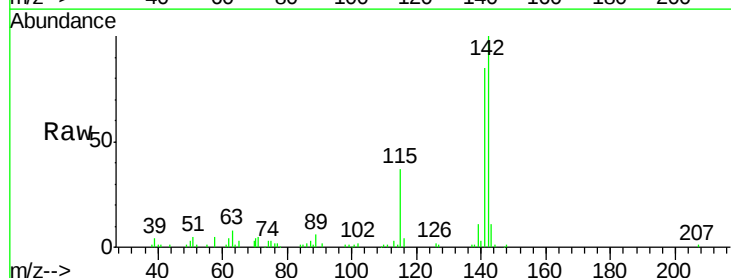
Instrument :
BNA_M
ClientSampled :
D9YS4

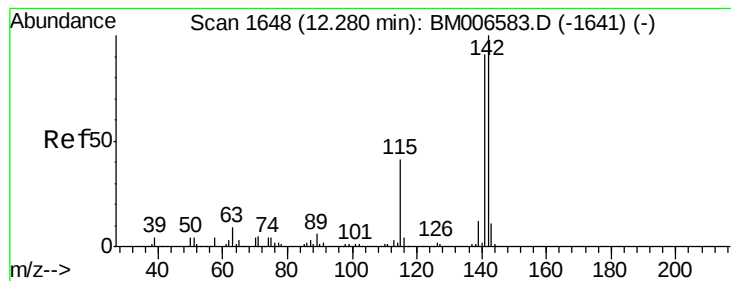
Tgt Ion:128 Resp: 748720
Ion Ratio Lower Upper
128 100
129 10.9 8.3 12.5
127 13.1 10.8 16.2



#13
2-Methylnaphthalene
Concen: 5.56 ng/ul
RT: 12.06 min Scan# 1611
Delta R.T. 0.01 min
Lab File: BM006602.D
Acq: 22 Jul 2016 00:39

Tgt Ion:142 Resp: 144662
Ion Ratio Lower Upper
142 100
141 84.7 71.3 106.9





#14

1-Methylnaphthalene

Concen: 3.78 ng/ul

RT: 12.28 min Scan# 1648

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

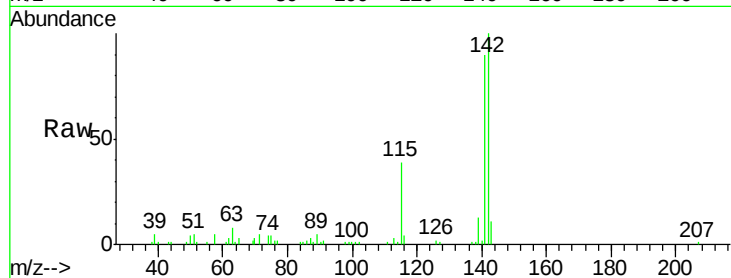
Tgt Ion:142 Resp: 93701

Ion Ratio Lower Upper

142 100

141 89.5 77.0 115.4

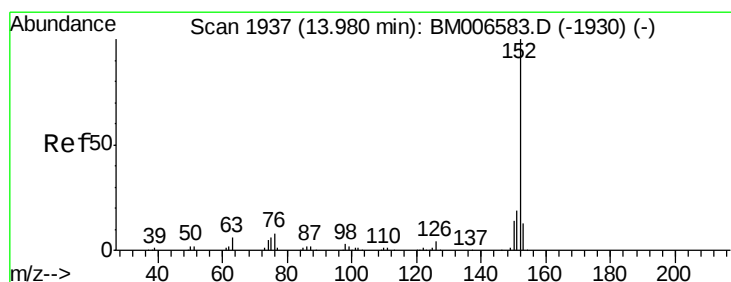
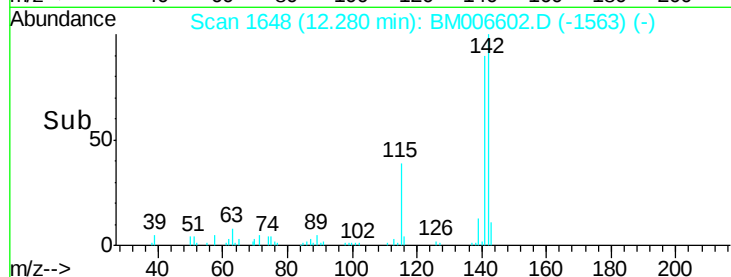
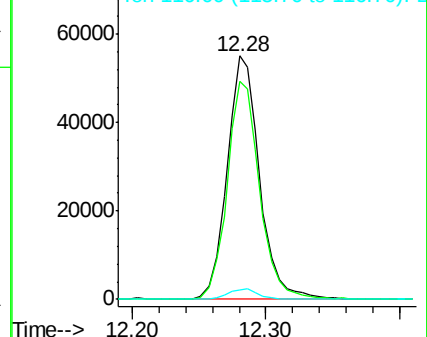
116 3.9 4.2 6.4#



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



#18

Acenaphthylene

Concen: 1.69 ng/ul

RT: 13.99 min Scan# 1938

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

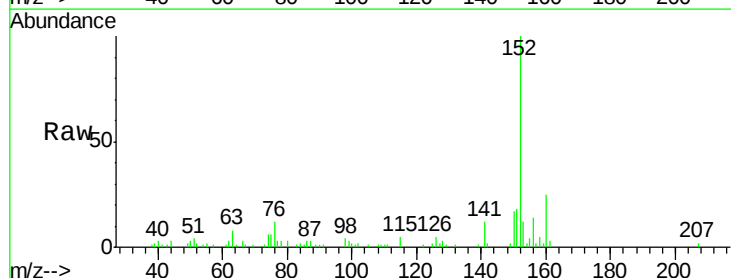
Tgt Ion:152 Resp: 68421

Ion Ratio Lower Upper

152 100

151 18.2 17.3 25.9

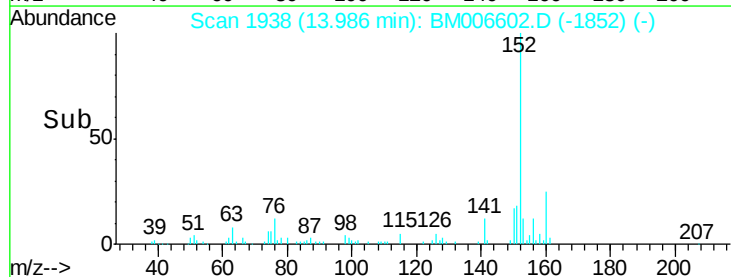
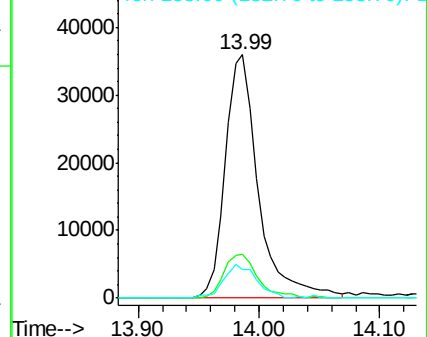
153 11.9 11.1 16.7

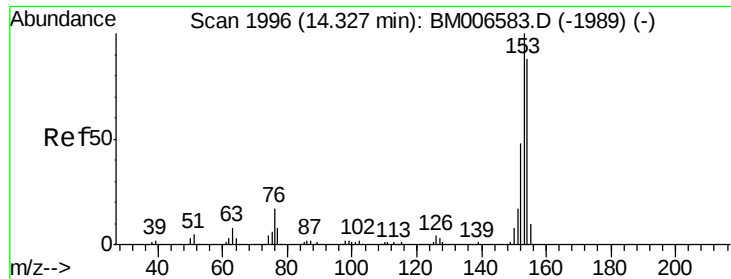


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

Acenaphthene

Concen: 12.14 ng/u1

RT: 14.33 min Scan# 1996

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

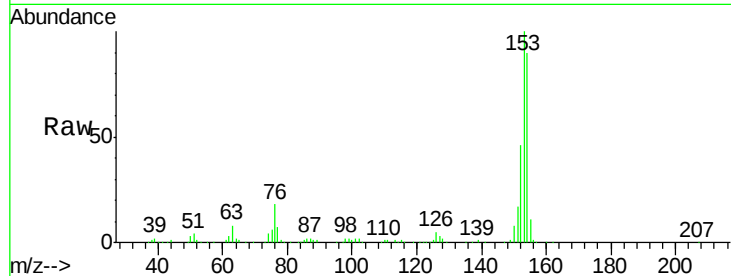
Tgt Ion:153 Resp: 315120

Ion Ratio Lower Upper

153 100

152 46.1 36.5 54.7

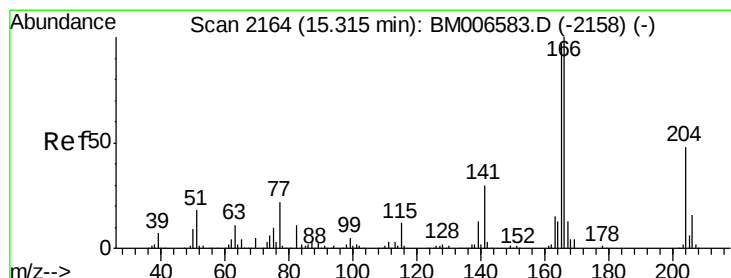
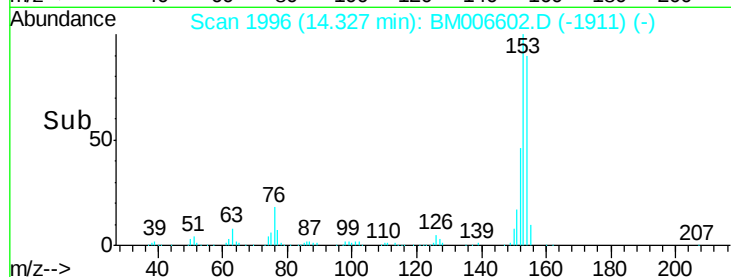
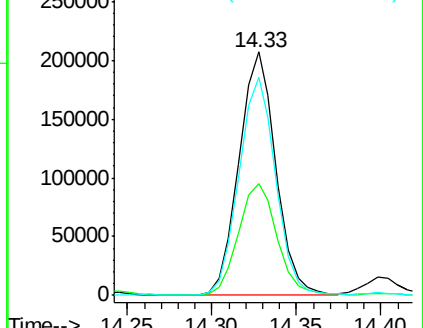
154 89.6 67.3 100.9



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



#22

Fluorene

Concen: 11.69 ng/u1

RT: 15.32 min Scan# 2164

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

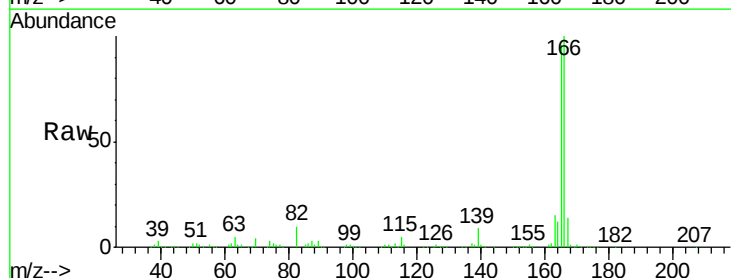
Tgt Ion:166 Resp: 342035

Ion Ratio Lower Upper

166 100

165 95.5 81.1 121.7

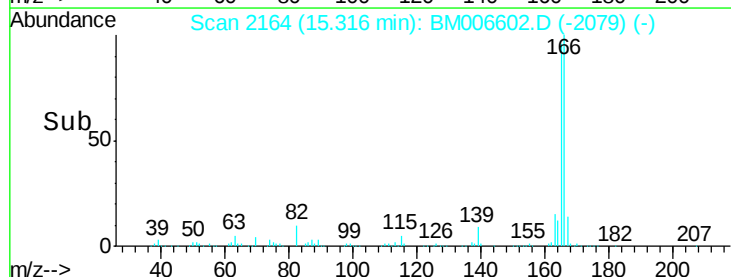
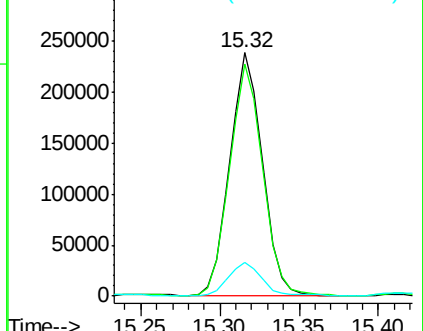
167 13.7 10.6 16.0

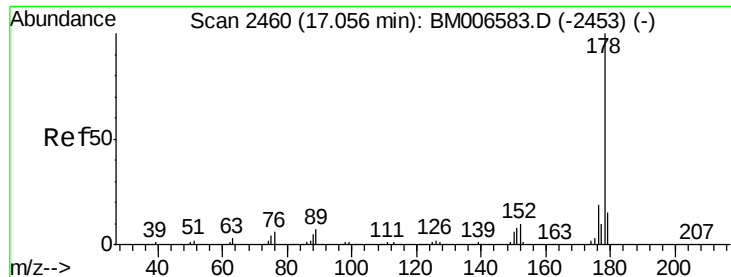


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#25

Phenanthrene

Concen: 66.09 ng/u1

RT: 17.06 min Scan# 2460

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampled :

D9YS4

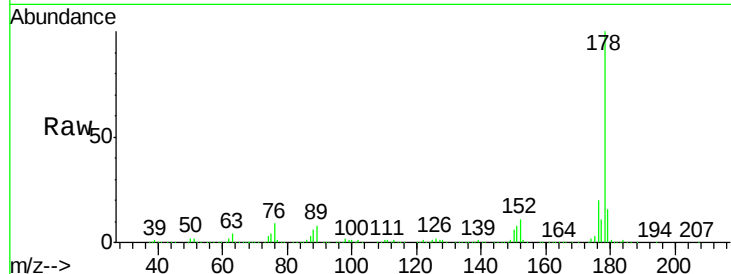
Tgt Ion:178 Resp: 3187430

Ion Ratio Lower Upper

178 100

179 15.7 11.8 17.8

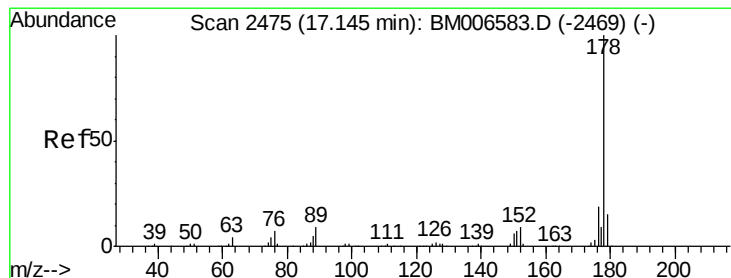
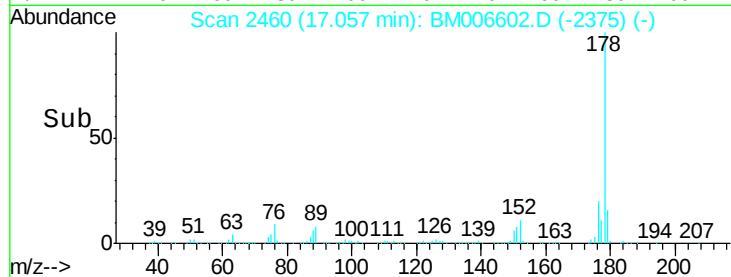
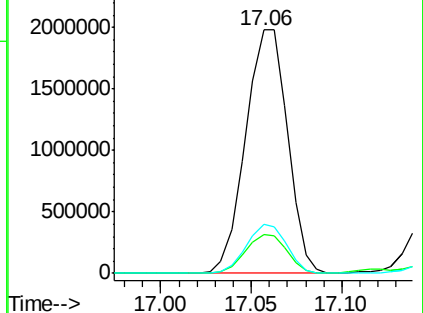
176 20.0 14.8 22.2



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



#27

Anthracene

Concen: 13.89 ng/u1

RT: 17.14 min Scan# 2475

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

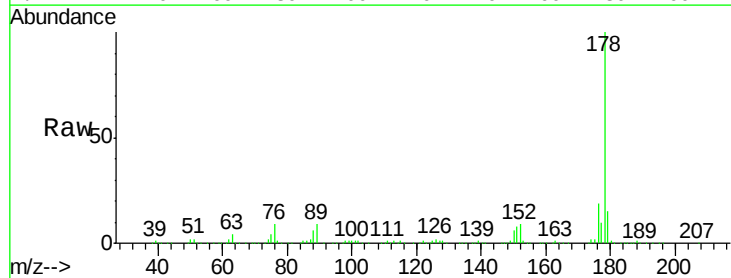
Tgt Ion:178 Resp: 689705

Ion Ratio Lower Upper

178 100

179 15.3 12.9 19.3

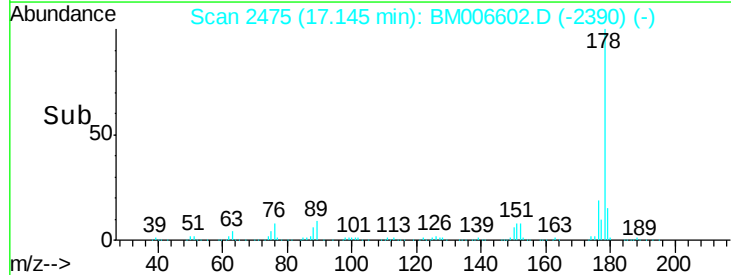
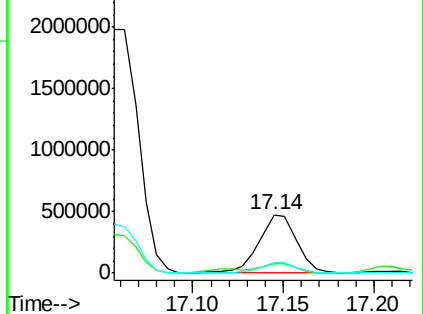
176 18.5 15.6 23.4

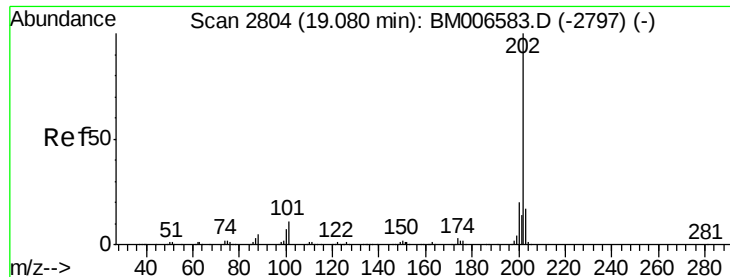


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#28

Fluoranthene

Concen: 62.57 ng/ul

RT: 19.45 min Scan# 2867

Delta R.T. 0.37 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

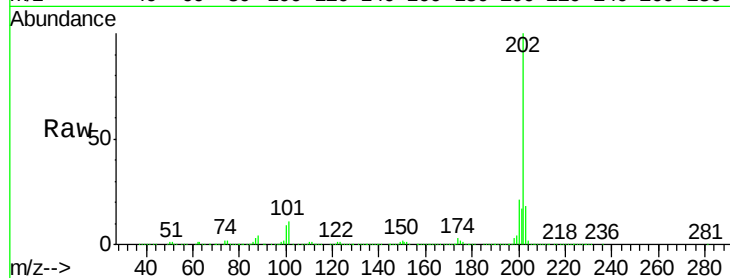
Tgt Ion:202 Resp: 3545211

Ion Ratio Lower Upper

202 100

101 10.9 8.9 13.3

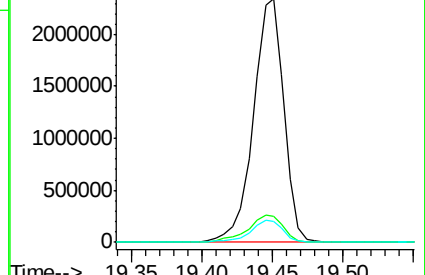
100 8.8 7.0 10.4



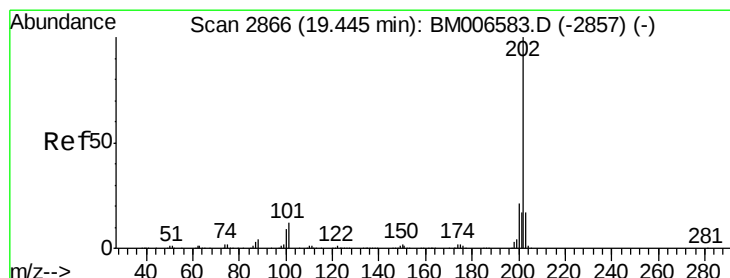
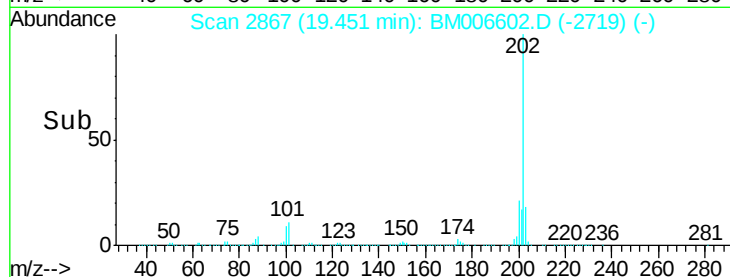
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time--> 19.35 19.40 19.45 19.50



#31

Pyrene

Concen: 63.78 ng/ul

RT: 19.45 min Scan# 2867

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

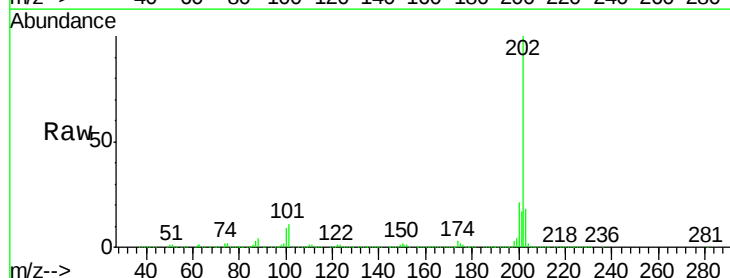
Tgt Ion:202 Resp: 3545211

Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.8

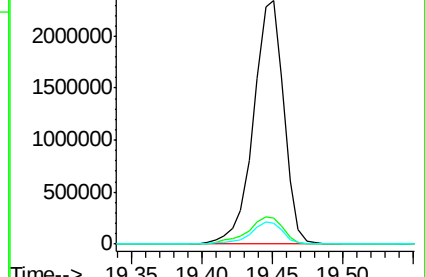
100 8.8 9.3 13.9#



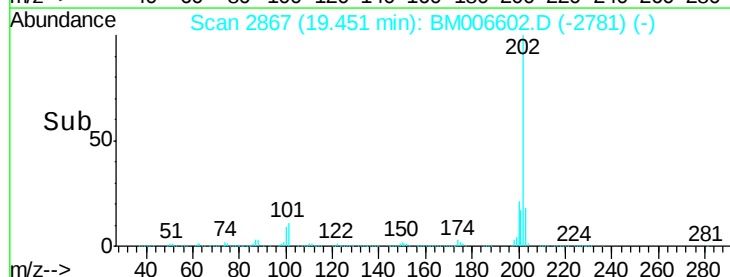
Abundance Ion 202.00 (201.70 to 202.70): E

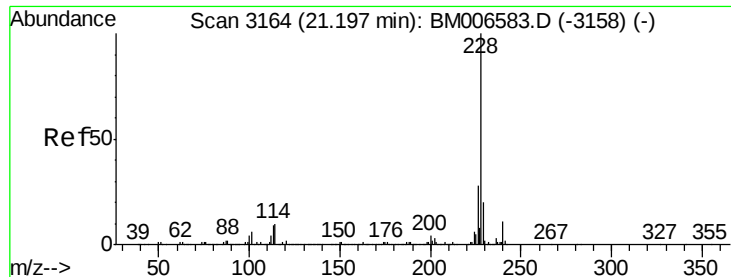
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time--> 19.35 19.40 19.45 19.50





#32

Benzo(a)anthracene

Concen: 41.12 ng/ul

RT: 21.20 min Scan# 3164

Delta R.T. 0.00 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

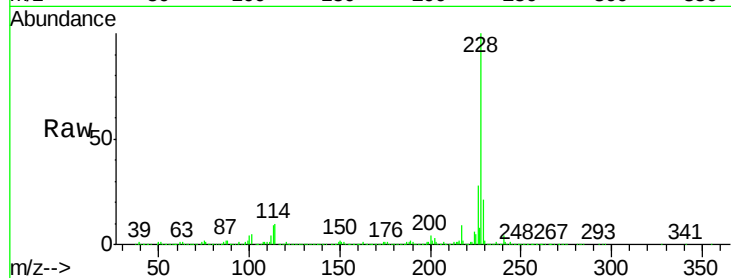
Tgt Ion:228 Resp: 2287687

Ion Ratio Lower Upper

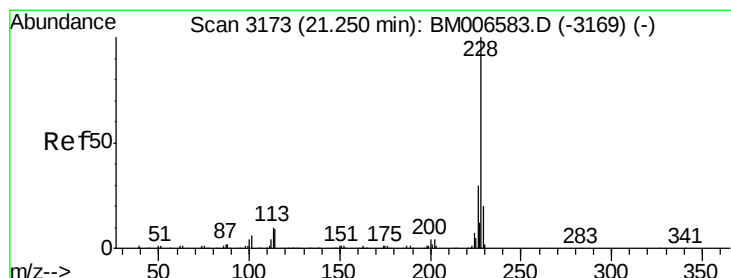
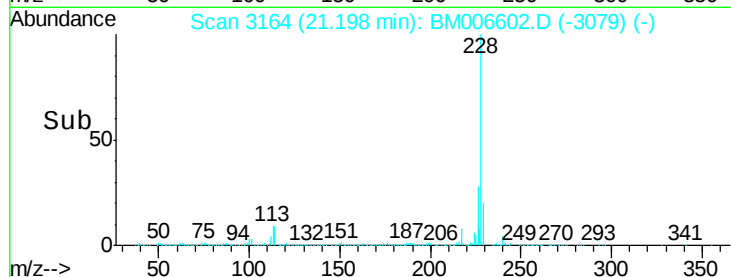
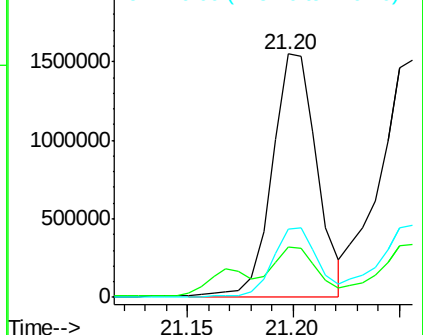
228 100

229 20.6 16.6 25.0

226 27.9 21.0 31.4



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



#33

Chrysene

Concen: 46.09 ng/ul

RT: 21.26 min Scan# 3174

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

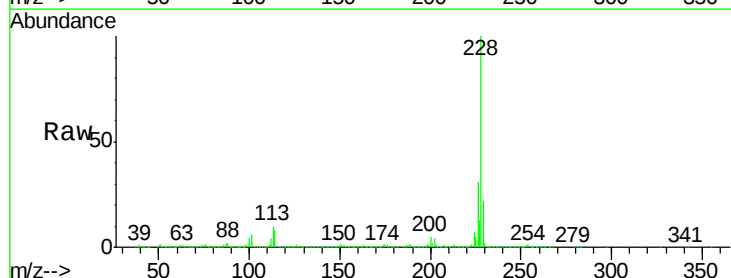
Tgt Ion:228 Resp: 2364158

Ion Ratio Lower Upper

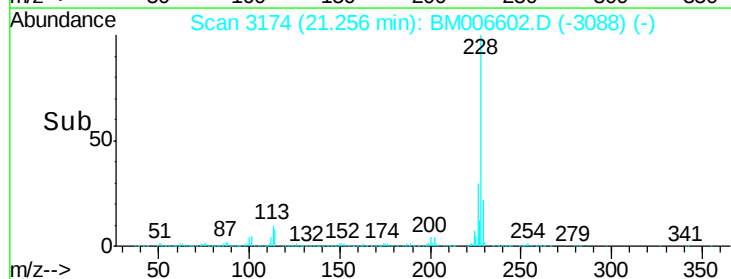
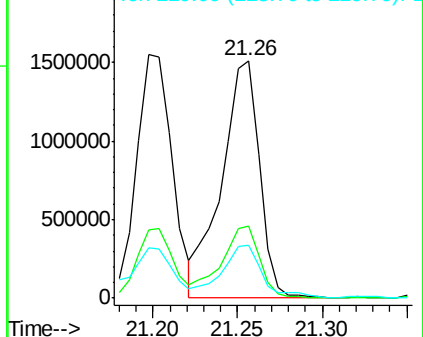
228 100

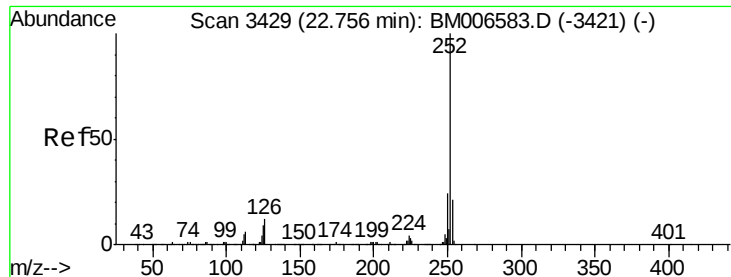
226 30.6 23.4 35.2

229 22.4 16.2 24.2



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





#35

Benzo(b)fluoranthene

Concen: 58.51 ng/ul

RT: 22.76 min Scan# 3430

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

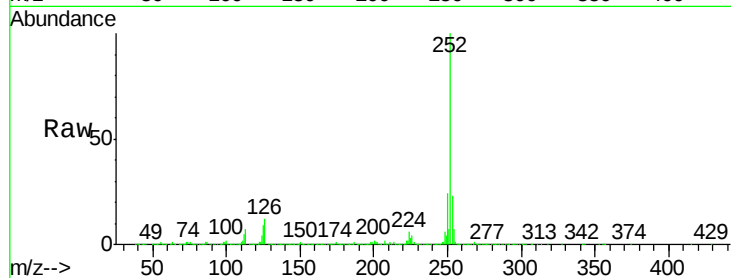
Tgt Ion:252 Resp: 3721337

Ion Ratio Lower Upper

252 100

253 22.6 18.1 27.1

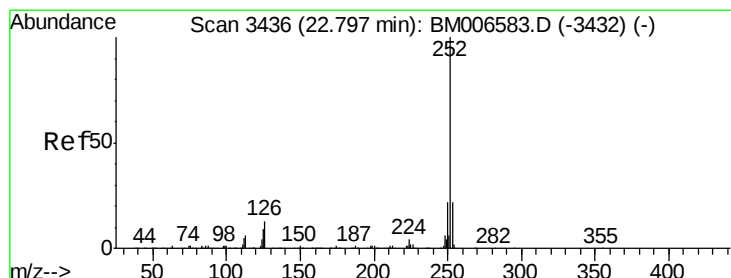
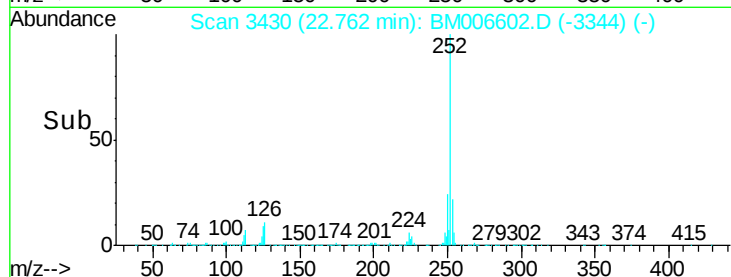
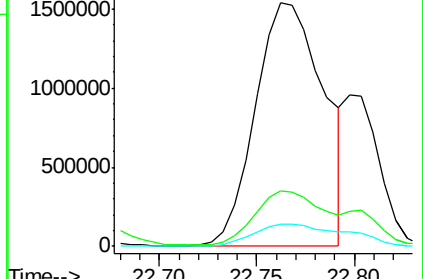
125 8.9 7.6 11.4



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



#36

Benzo(k)fluoranthene

Concen: 60.52 ng/ul

RT: 22.76 min Scan# 3430

Delta R.T. -0.04 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

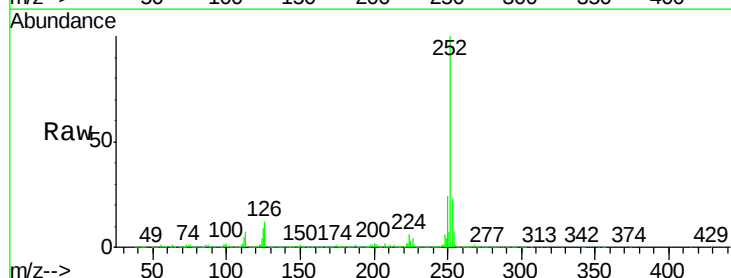
Tgt Ion:252 Resp: 3721337

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

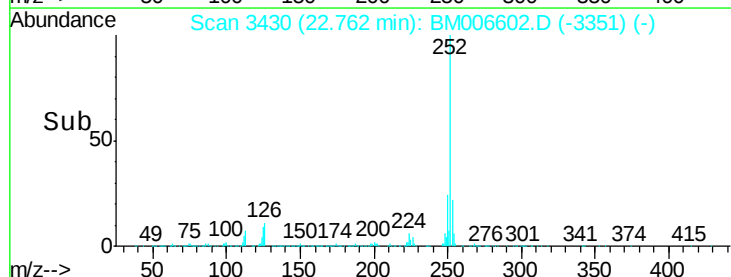
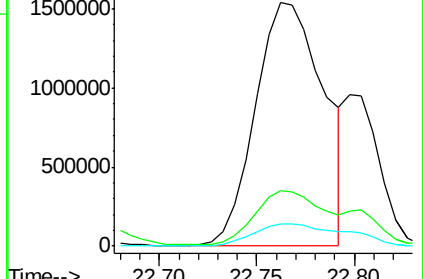
125 8.9 7.7 11.5

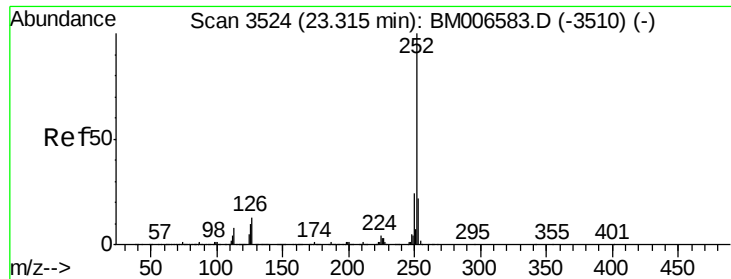


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 40.36 ng/ul

RT: 23.33 min Scan# 3526

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

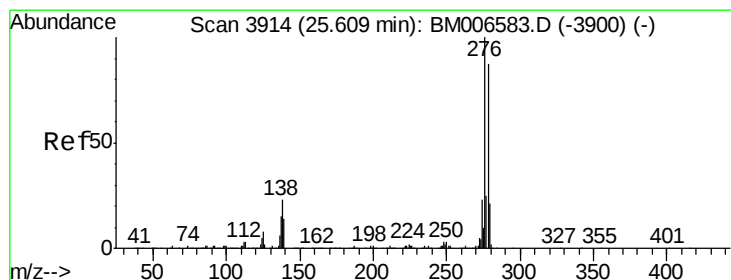
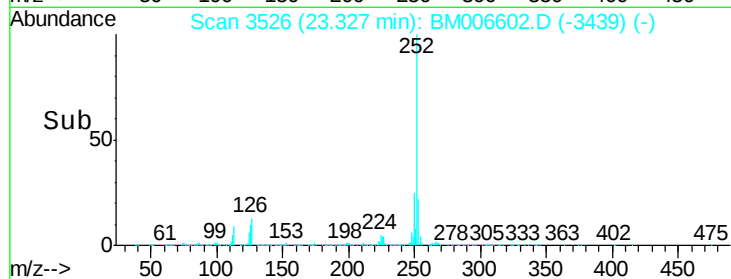
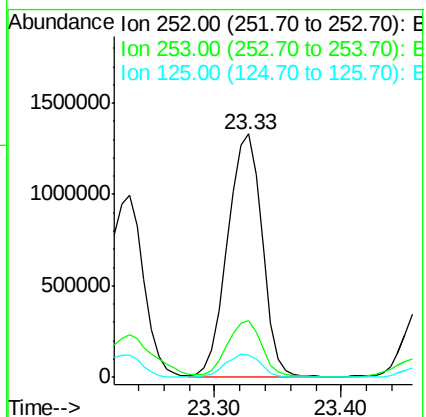
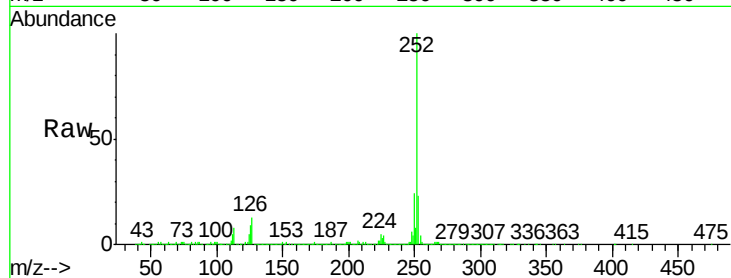
Tgt Ion:252 Resp: 2498074

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 9.2 8.2 12.2



#39

Indeno(1,2,3-cd)pyrene

Concen: 28.65 ng/ul

RT: 25.62 min Scan# 3916

Delta R.T. 0.01 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

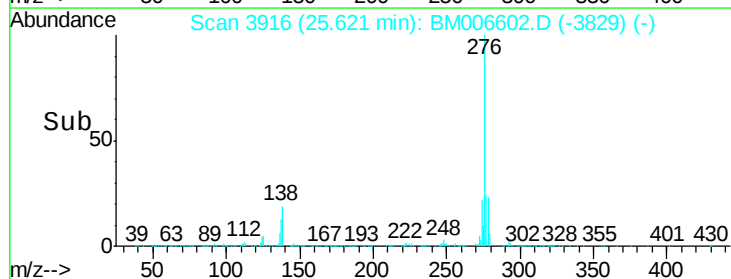
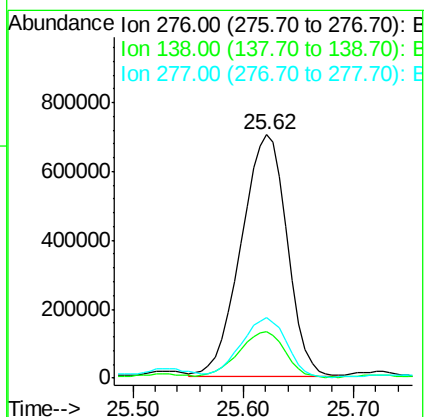
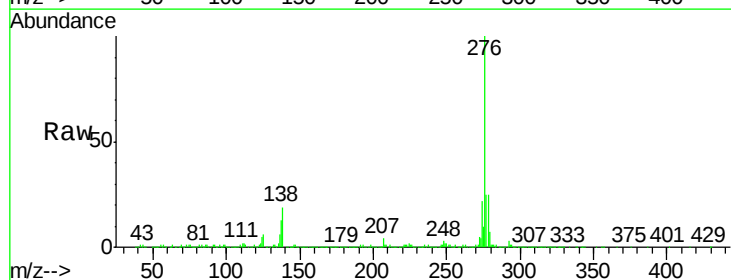
Tgt Ion:276 Resp: 2053648

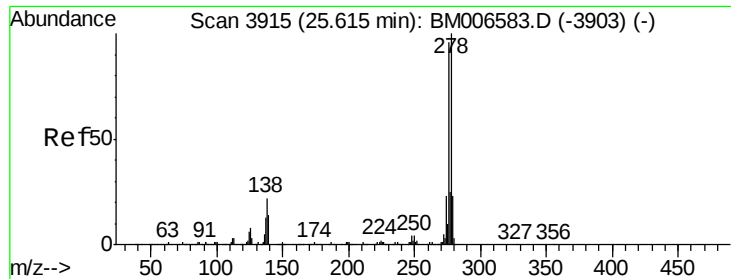
Ion Ratio Lower Upper

276 100

138 19.3 15.8 23.6

277 25.0 19.0 28.6





#40

Dibenzo(a,h)anthracene

Concen: 1.59 ng/ul

RT: 25.53 min Scan# 3901

Delta R.T. -0.08 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

Instrument :

BNA_M

ClientSampleId :

D9YS4

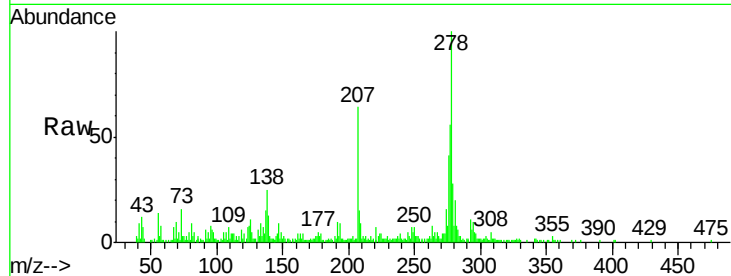
Tgt Ion:278 Resp: 94758

Ion Ratio Lower Upper

278 100

139 12.7 12.1 18.1

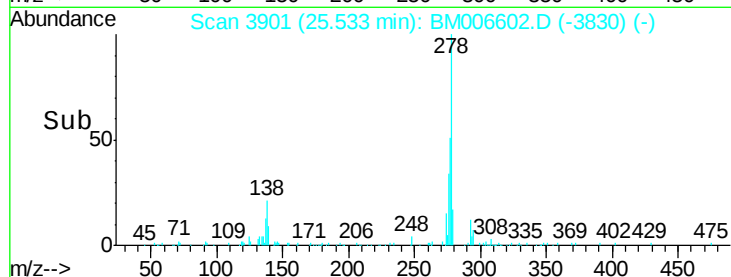
279 28.0 19.8 29.8



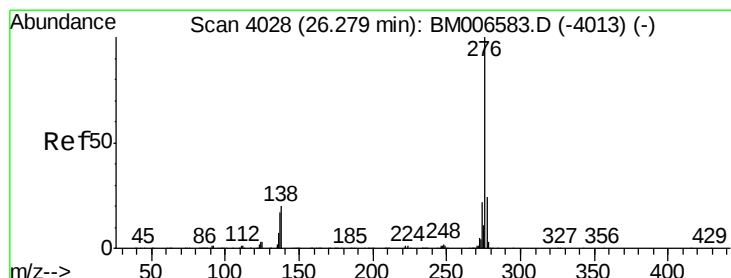
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#41

Benzo(g,h,i)perylene

Concen: 31.63 ng/ul

RT: 26.30 min Scan# 4031

Delta R.T. 0.02 min

Lab File: BM006602.D

Acq: 22 Jul 2016 00:39

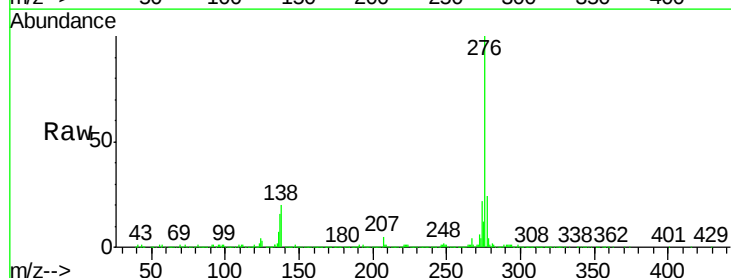
Tgt Ion:276 Resp: 1943200

Ion Ratio Lower Upper

276 100

138 19.7 13.9 20.9

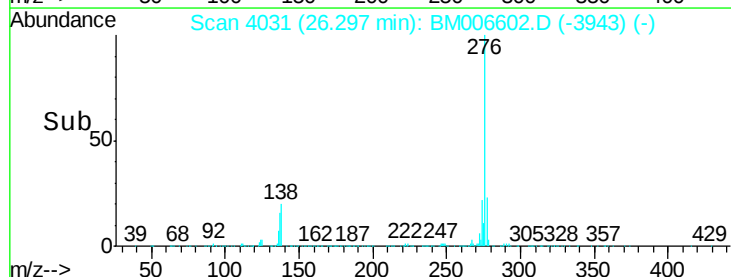
277 24.1 19.8 29.6



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



Time-->