

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062616\
 Data File : BM006059.D
 Acq On : 27 Jun 2016 02:59
 Operator : UM/SJ
 Sample : H3670-22 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9YA4

Manual Integrations
 APPROVED

sohil
 6/27/2016 8:06:25 PM

Quant Time: Jun 27 06:23:23 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062516.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 27 05:15:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	293988	20.00	ng/ul	0.00
7) Naphthalene-d8	10.44	136	1424659	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.31	164	853109	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.06	188	1975207	20.00	ng/ul	0.01
29) Chrysene-d12	21.26	240	1369975	20.00	ng/ul	0.01
34) Perylene-d12	23.48	264	1361504	20.00	ng/ul	0.01

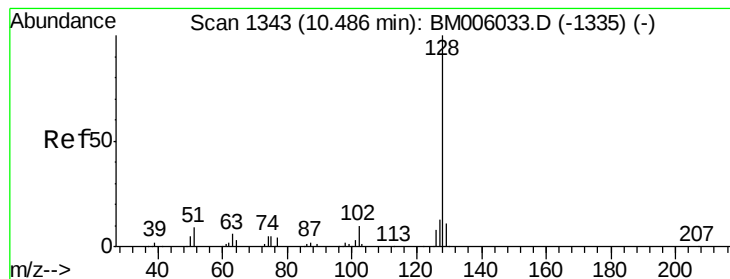
System Monitoring Compounds

2) 1,4-Dioxane-d8	3.18	96	5773	0.88	ng/uL	0.00
3) Phenol-d5	6.83	99	281089	9.09	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	7.00	67	178731	10.39	ng/ul	0.00
5) 2-Chlorophenol-d4	7.19	132	224769	10.44	ng/ul	0.00
6) 4-Methylphenol-d8	8.36	113	186590	7.15	ng/ul	0.00
8) Nitrobenzene-d5	8.81	128	115913	10.69	ng/ul	0.00
9) 2-Nitrophenol-d4	9.53	143	124080	10.28	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.06	165	240008	10.37	ng/ul	0.00
12) 4-Chloroaniline-d4	10.58	131	185949	7.40	ng/ul	0.00
16) Dimethylphthalate-d6	13.72	166	757610	10.37	ng/ul	0.00
17) Acenaphthylene-d8	14.00	160	993389	11.73	ng/ul	0.00
20) 4-Nitrophenol-d4	14.52	143	91933	5.90	ng/ul	0.01
21) Fluorene-d10	15.30	176	701533	11.25	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.44	200	23921	2.18	ng/ul	0.02
26) Anthracene-d10	17.16	188	1060152	11.69	ng/ul	0.01
30) Pyrene-d10	19.46	212	1011193	16.85	ng/ul	0.02
37) Benzo(a)pyrene-d12	23.34	264	718126	11.68	ng/ul	0.02

Target Compounds

						Qvalue
11) Naphthalene	10.49	128	306430	4.31	ng/ul	100
13) 2-Methylnaphthalene	12.11	142	120476	2.10	ng/ul	100
14) 1-Methylnaphthalene	12.33	142	109275	1.99	ng/ul	98
18) Acenaphthylene	14.03	152	275215	3.08	ng/ul	98
19) Acenaphthene	14.37	153	668430	11.78	ng/ul	100
22) Fluorene	15.36	166	751028	10.99	ng/ul	98
25) Phenanthrene	17.12	178	10210335	96.10	ng/ul	98
27) Anthracene	17.20	178	2849630	25.98	ng/ul	100
28) Fluoranthene	19.14	202	12758850	93.76	ng/ul	99
31) Pyrene	19.50	202	11127527	141.88	ng/ul	97
32) Benzo(a)anthracene	21.24	228	4593637	56.45	ng/ul	97
33) Chrysene	21.30	228	4452070	59.88	ng/ul	97
35) Benzo(b)fluoranthene	22.82	252	5182539	65.51	ng/ul	98
36) Benzo(k)fluoranthene	22.86	252	1902616m	25.86	ng/ul	
38) Benzo(a)pyrene	23.39	252	3790439	49.97	ng/ul	98
39) Indeno(1,2,3-cd)pyrene	25.71	276	3147179	34.81	ng/ul	97
40) Dibenzo(a,h)anthracene	25.71	278	659164m	8.77	ng/ul	
41) Benzo(g,h,i)perylene	26.40	276	3329598	42.58	ng/ul	99

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



#11

Naphthalene

Concen: 4.31 ng/ul

RT: 10.49 min Scan# 1344

Delta R.T. 0.01 min

Lab File: BM006059.D

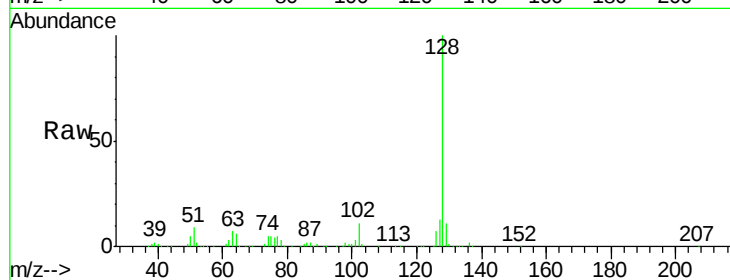
Acq: 27 Jun 2016 02:59

Instrument :

BNA_M

ClientSampleId :

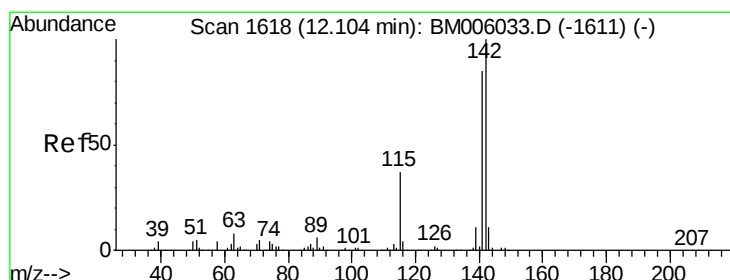
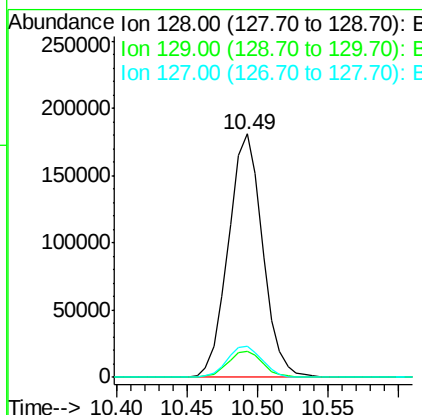
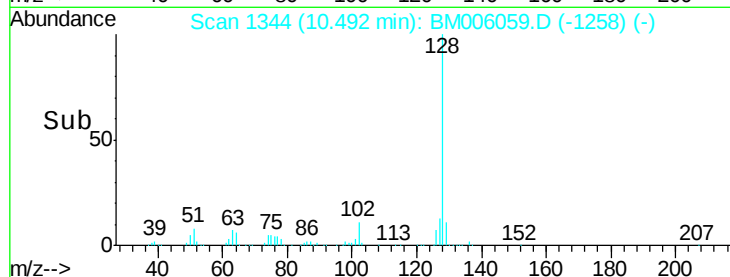
D9YA4



Tgt Ion:	128	Resp:	306430
Ion Ratio	Lower	Upper	
128	100		
129	10.7	8.6	13.0
127	12.9	10.2	15.4

Manual Integrations
APPROVED

sohil
6/27/2016 8:06:25 PM



#13

2-Methylnaphthalene

Concen: 2.10 ng/ul

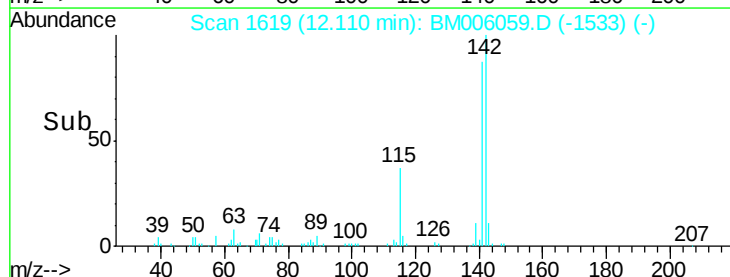
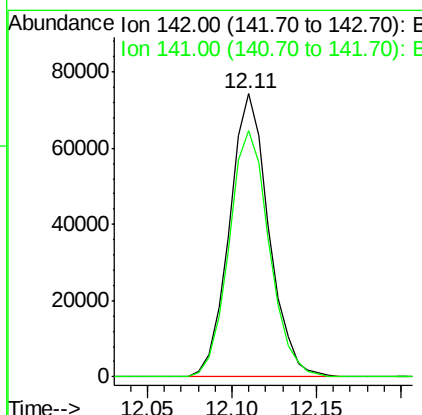
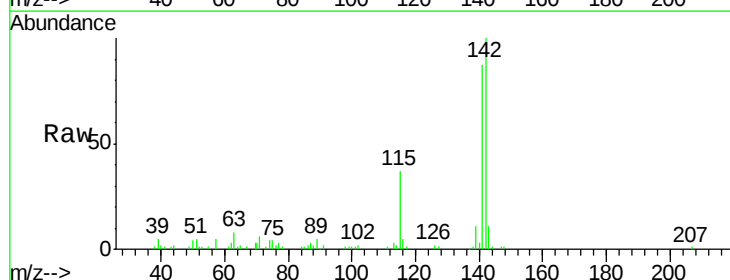
RT: 12.11 min Scan# 1619

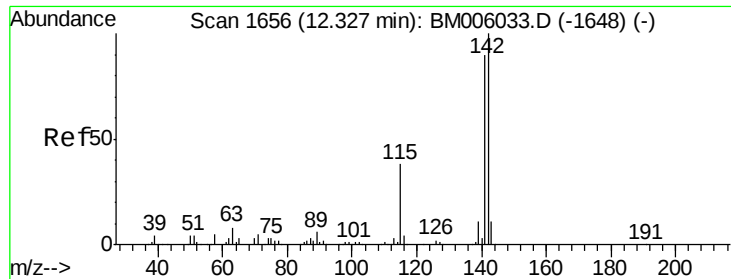
Delta R.T. 0.01 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Tgt Ion:	142	Resp:	120476
Ion Ratio	Lower	Upper	
142	100		
141	87.1	69.4	104.2





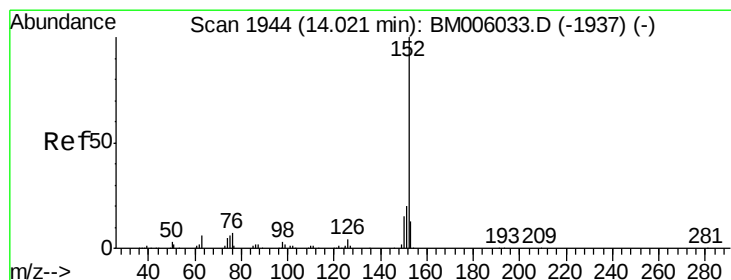
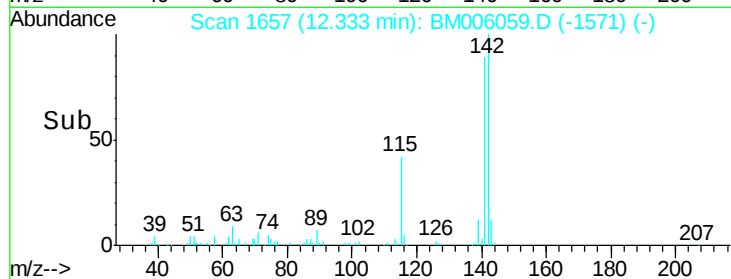
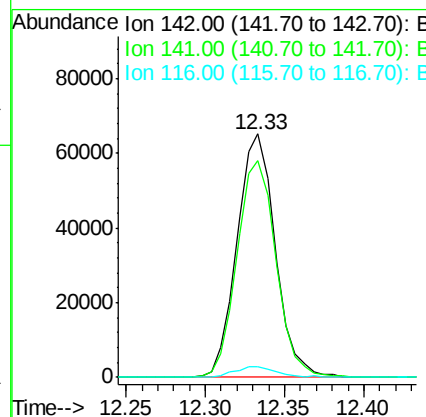
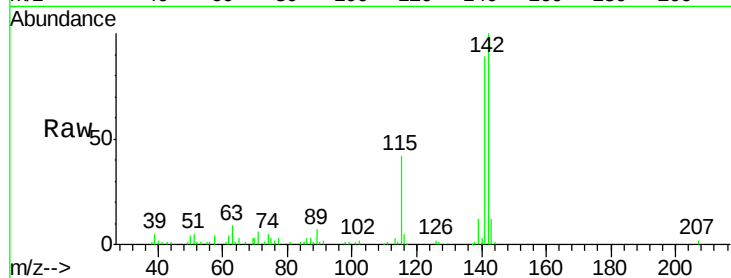
#14
1-Methylnaphthalene
Concen: 1.99 ng/ul
RT: 12.33 min Scan# 1657
Delta R.T. 0.01 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Instrument :
BNA_M
ClientSampleId :
D9YA4

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	109275		
141	88.8	72.3	108.5	
116	4.6	3.4	5.0	

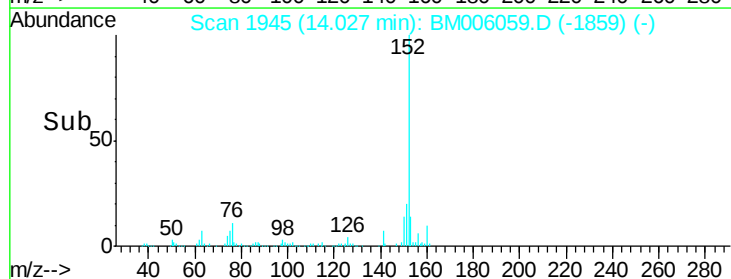
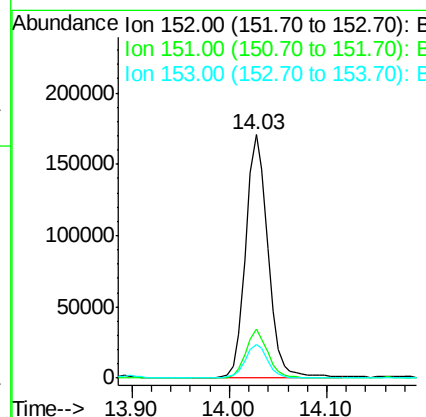
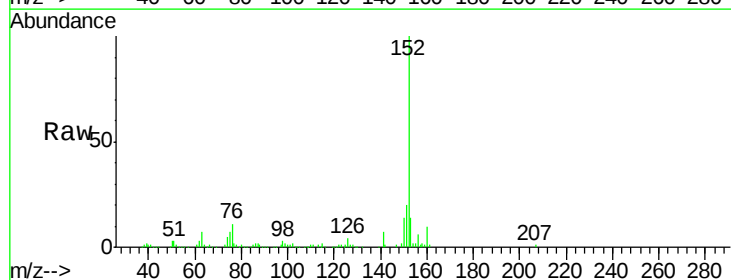
Manual Integrations
APPROVED

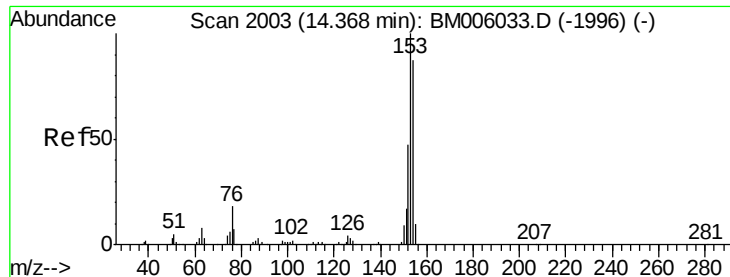
sohil
6/27/2016 8:06:25 PM



#18
Acenaphthylene
Concen: 3.08 ng/ul
RT: 14.03 min Scan# 1945
Delta R.T. 0.01 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	275215		
151	20.2	15.5	23.3	
153	13.9	10.5	15.7	





#19

Acenaphthene

Concen: 11.78 ng/ul

RT: 14.37 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Instrument :

BNA_M

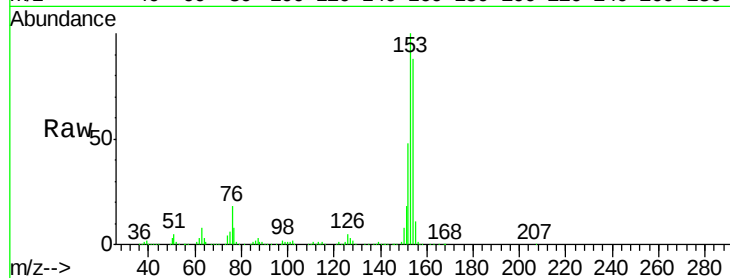
ClientSampleId :

D9YA4

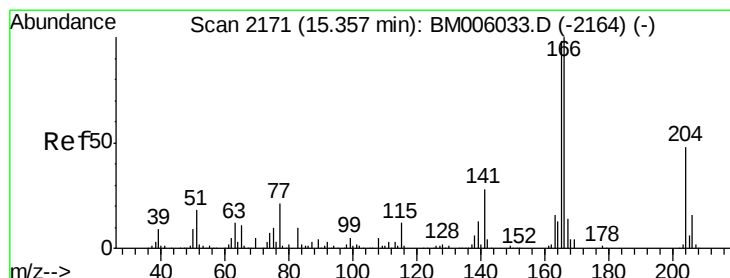
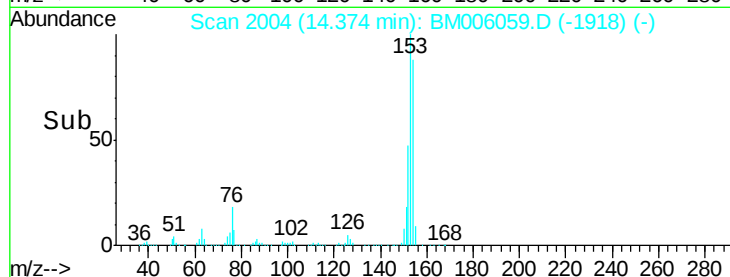
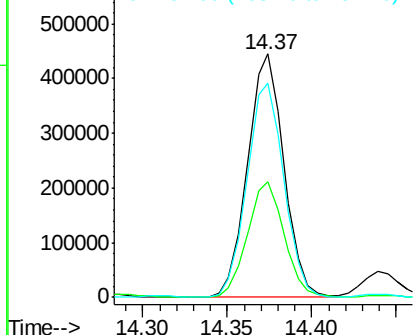
Tgt Ion:	153	Resp:	668430
Ion Ratio	Lower	Upper	
153	100		
152	47.6	38.6	57.8
154	88.2	70.7	106.1

Manual Integrations
APPROVED

sohil
6/27/2016 8:06:25 PM



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: 10.99 ng/ul

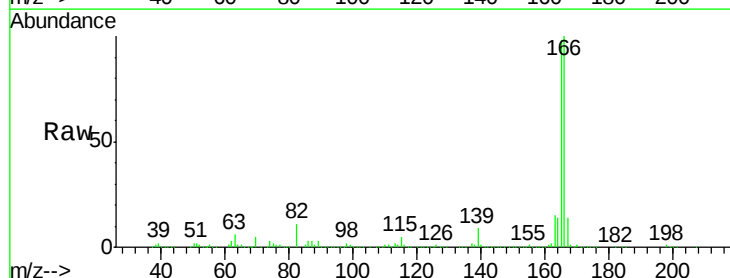
RT: 15.36 min Scan# 2172

Delta R.T. 0.01 min

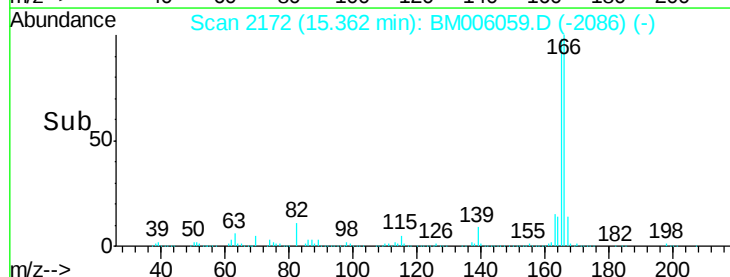
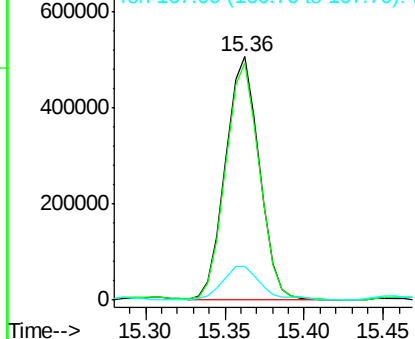
Lab File: BM006059.D

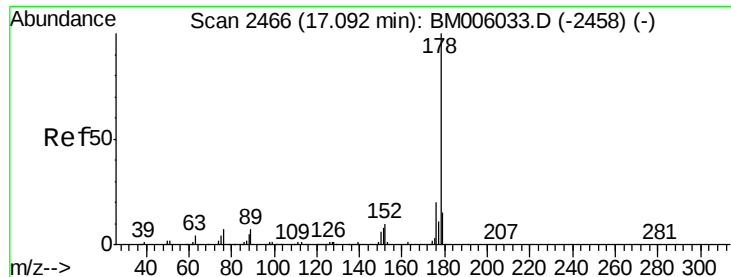
Acq: 27 Jun 2016 02:59

Tgt Ion:	166	Resp:	751028
Ion Ratio	Lower	Upper	
166	100		
165	97.6	76.8	115.2
167	14.1	10.8	16.2



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





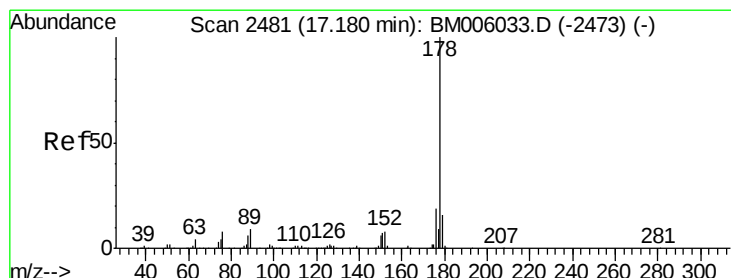
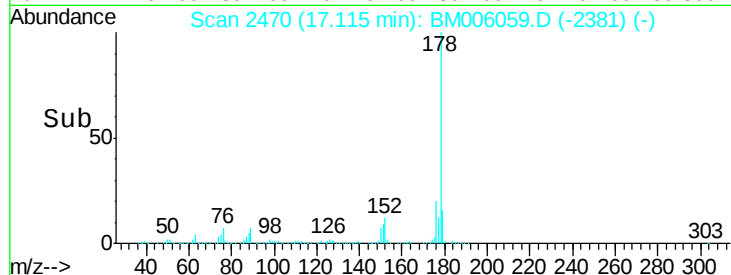
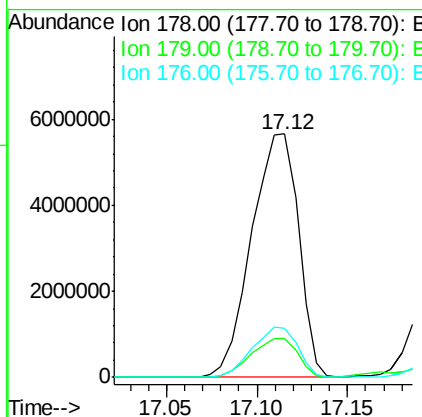
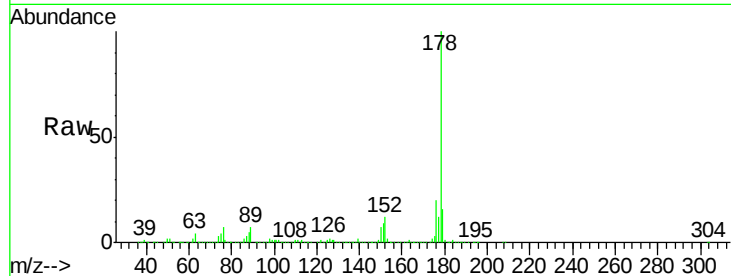
#25
Phenanthrene
Concen: 96.10 ng/ul
RT: 17.12 min Scan# 2470
Delta R.T. 0.02 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Instrument :
BNA_M
ClientSampleId :
D9YA4

Tgt Ion:178 Resp:10210335
Ion Ratio Lower Upper
178 100
179 15.9 12.1 18.1
176 20.4 15.4 23.0

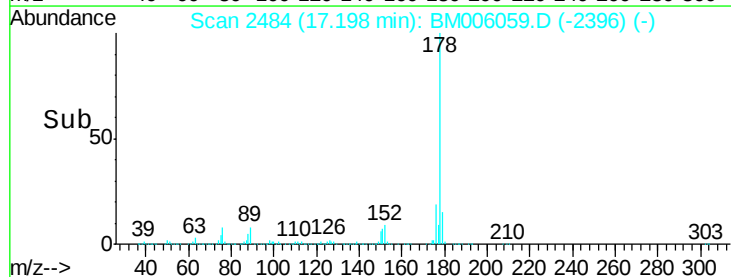
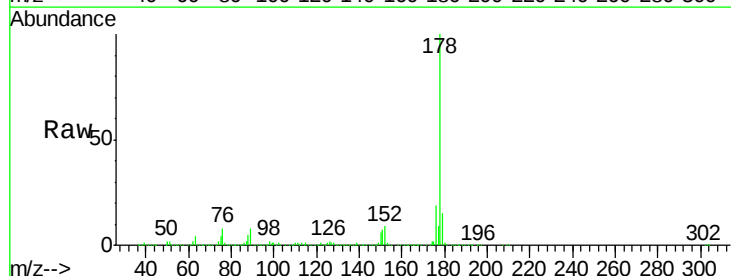
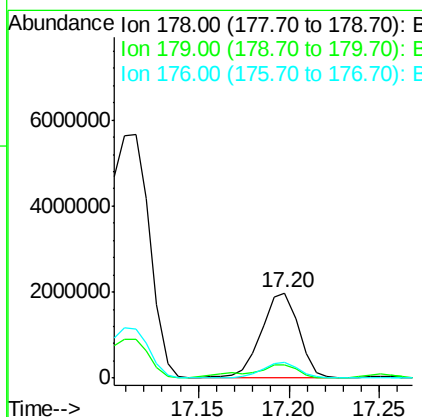
Manual Integrations
APPROVED

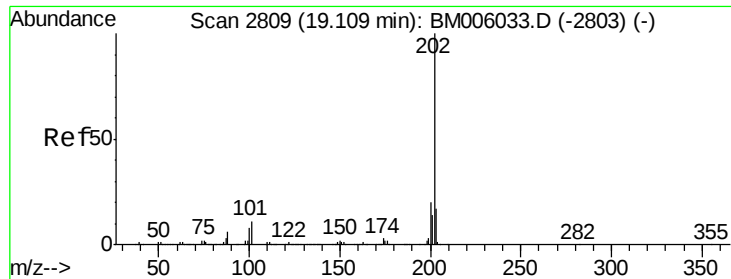
sohil
6/27/2016 8:06:25 PM



#27
Anthracene
Concen: 25.98 ng/ul
RT: 17.20 min Scan# 2484
Delta R.T. 0.02 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Tgt Ion:178 Resp: 2849630
Ion Ratio Lower Upper
178 100
179 15.1 12.2 18.4
176 18.6 14.9 22.3





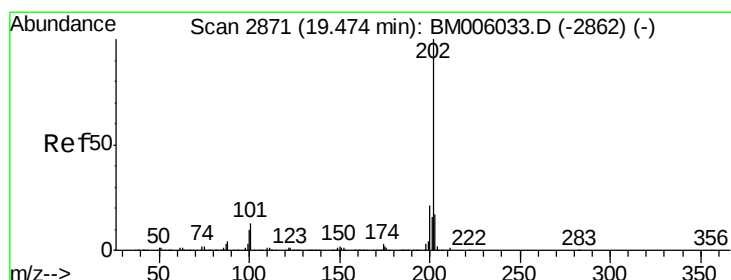
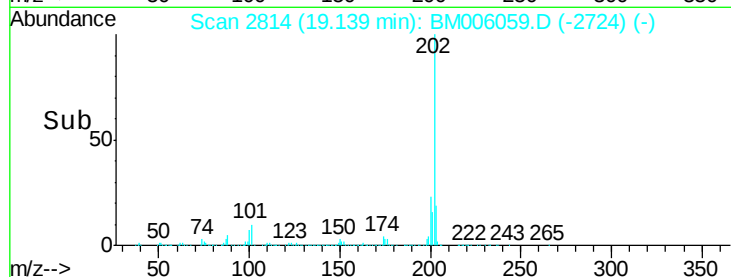
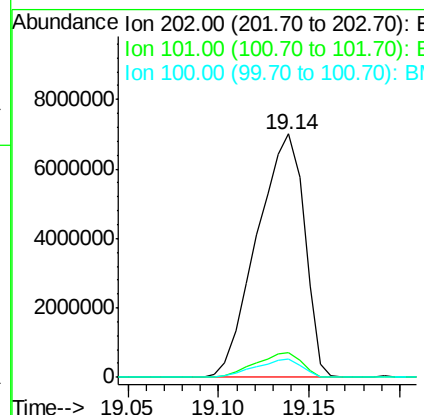
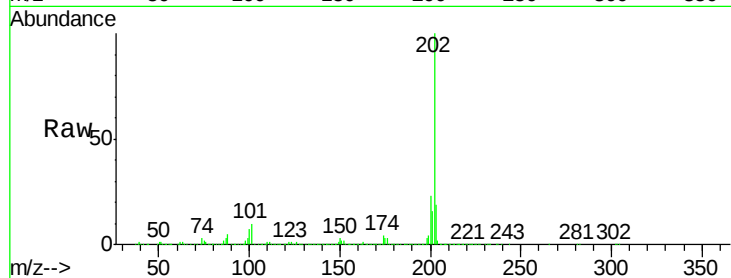
#28
Fluoranthene
Concen: 93.76 ng/ul
RT: 19.14 min Scan# 2814
Delta R.T. 0.03 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Instrument :
BNA_M
ClientSampleId :
D9YA4

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.2	12.4
100	7.4	6.3	9.5

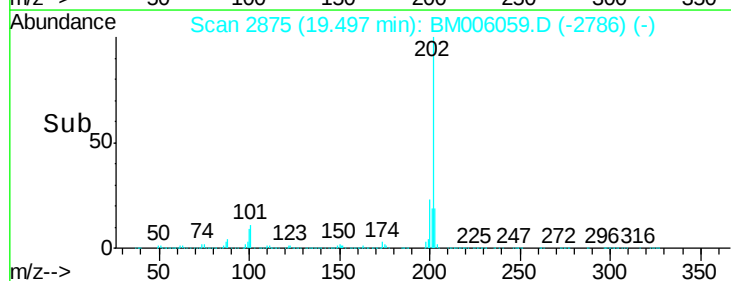
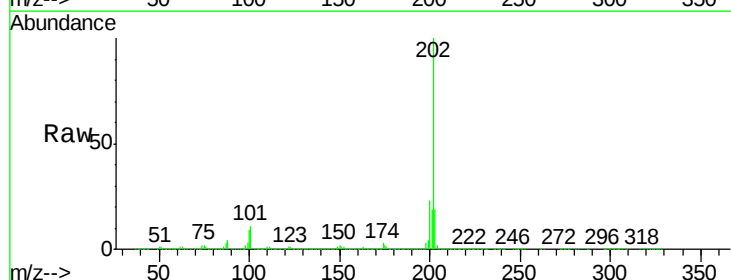
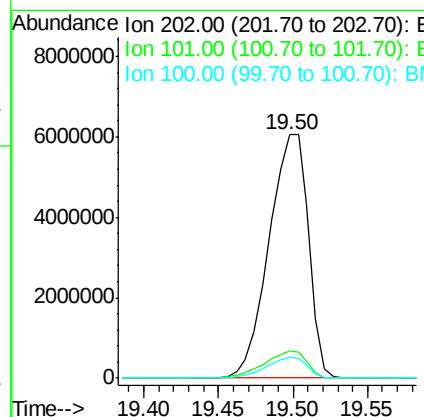
Manual Integrations
APPROVED

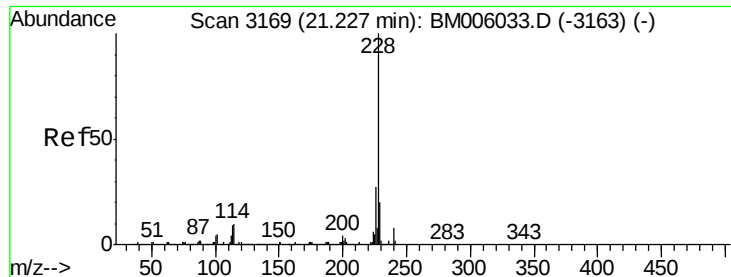
sohil
6/27/2016 8:06:25 PM



#31
Pyrene
Concen: 141.88 ng/ul
RT: 19.50 min Scan# 2875
Delta R.T. 0.02 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.8	14.6
100	8.7	8.2	12.2





#32

Benzo(a)anthracene

Concen: 56.45 ng/ul

RT: 21.24 min Scan# 3172

Delta R.T. 0.02 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Instrument :

BNA_M

ClientSampleId :

D9YA4

Tgt Ion:228 Resp: 4593637

Ion Ratio Lower Upper

228 100

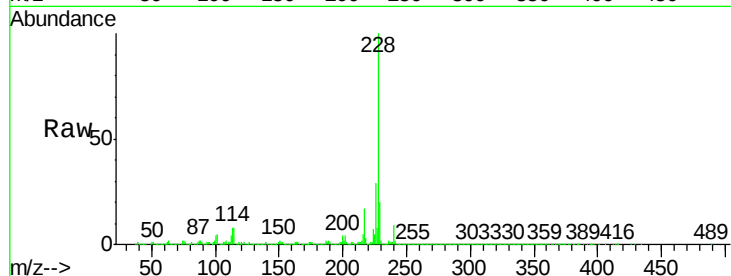
229 20.5 15.8 23.6

226 28.9 21.5 32.3

Manual Integrations
APPROVED

sohil

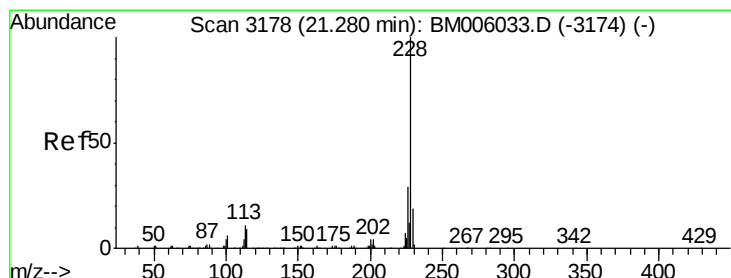
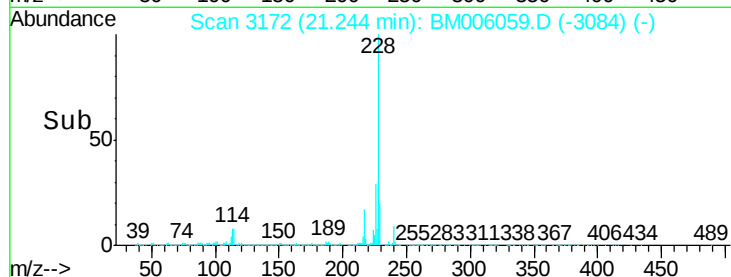
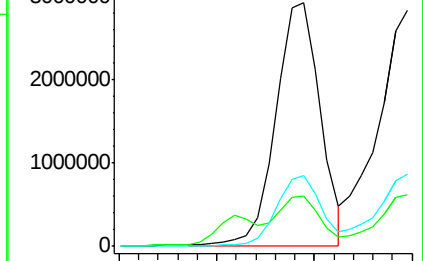
6/27/2016 8:06:25 PM



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: 59.88 ng/ul

RT: 21.30 min Scan# 3181

Delta R.T. 0.02 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Tgt Ion:228 Resp: 4452070

Ion Ratio Lower Upper

228 100

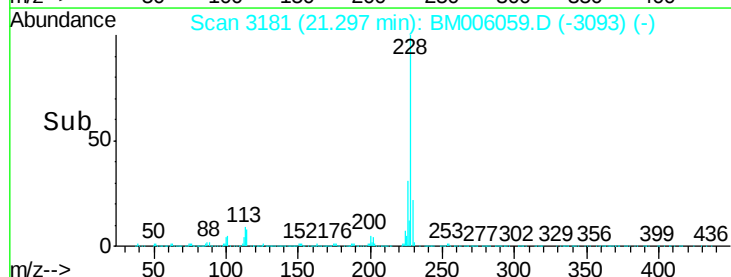
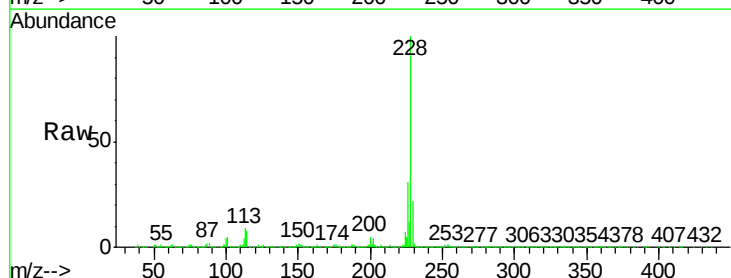
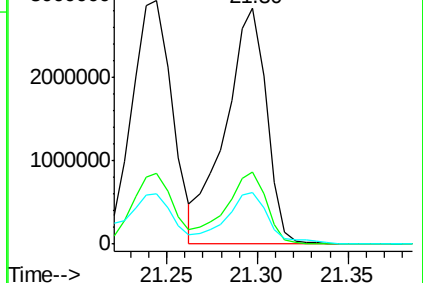
226 30.7 24.3 36.5

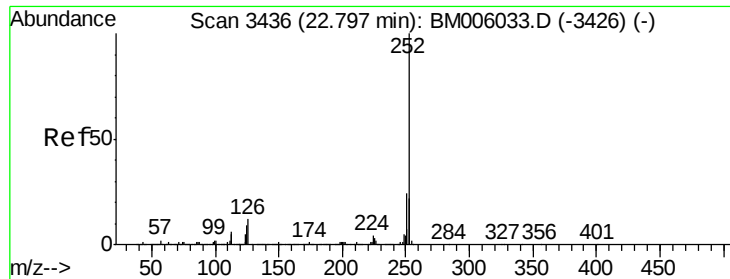
229 22.1 15.4 23.2

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





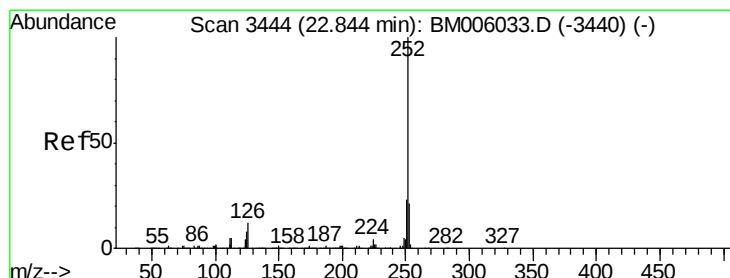
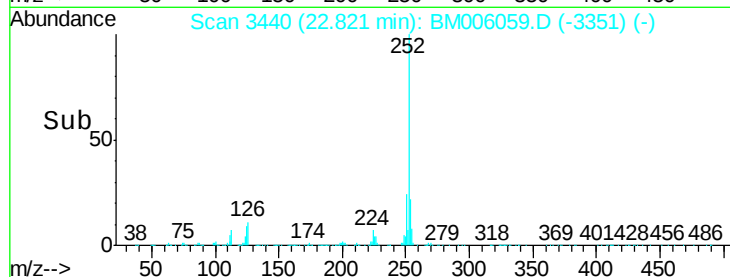
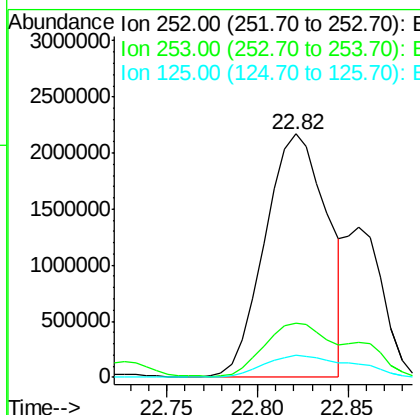
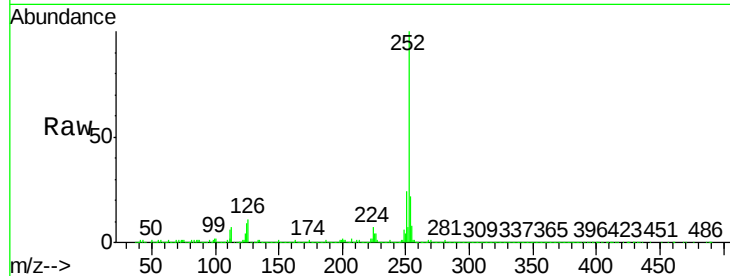
#35
Benzo(b)fluoranthene
Concen: 65.51 ng/ul
RT: 22.82 min Scan# 3440
Delta R.T. 0.02 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Instrument :
BNA_M
ClientSampleId :
D9YA4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.2	25.8
125	8.9	6.8	10.2

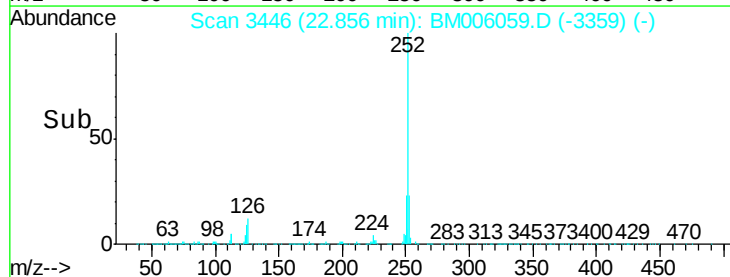
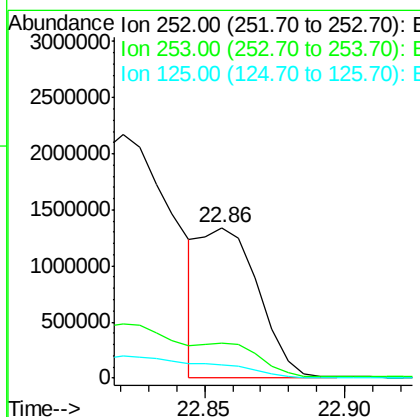
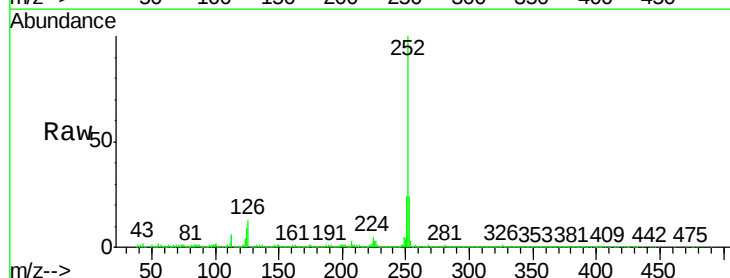
Manual Integrations
APPROVED

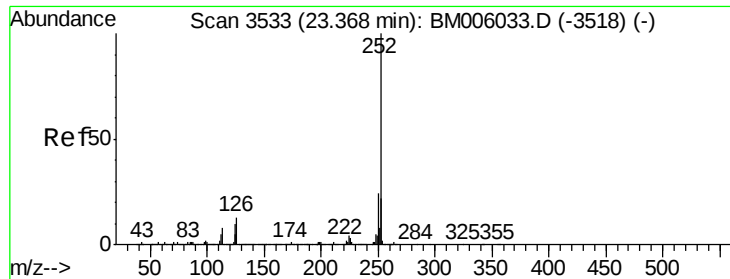
sohil
6/27/2016 8:06:25 PM



#36
Benzo(k)fluoranthene
Concen: 25.86 ng/ul m
RT: 22.86 min Scan# 3446
Delta R.T. 0.01 min
Lab File: BM006059.D
Acq: 27 Jun 2016 02:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.3	25.9
125	9.0	7.0	10.4





#38

Benzo(a)pyrene

Concen: 49.97 ng/ul

RT: 23.39 min Scan# 3536

Delta R.T. 0.02 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Instrument :

BNA_M

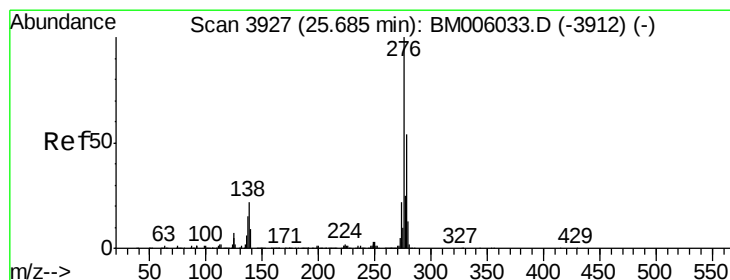
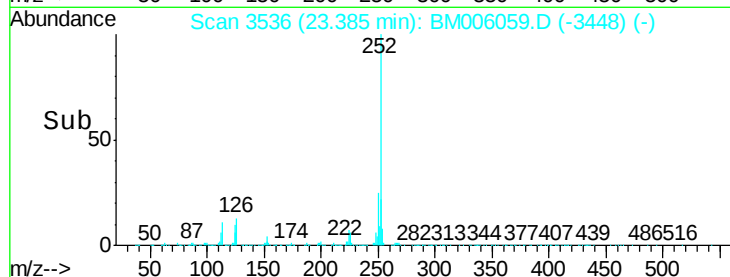
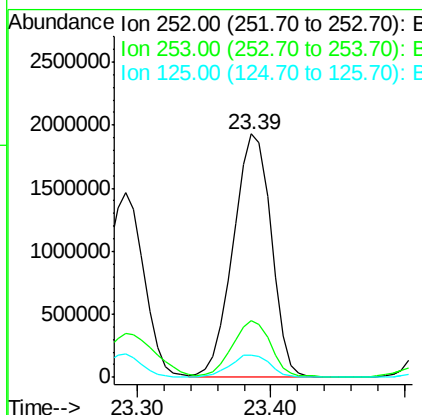
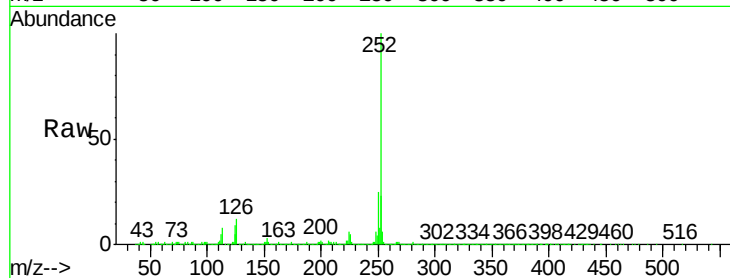
ClientSampleId :

D9YA4

Tgt Ion:	252	Resp:	3790439
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.6	26.4
125	9.3	7.8	11.6

Manual Integrations
APPROVED

sohil
6/27/2016 8:06:25 PM



#39

Indeno(1,2,3-cd)pyrene

Concen: 34.81 ng/ul

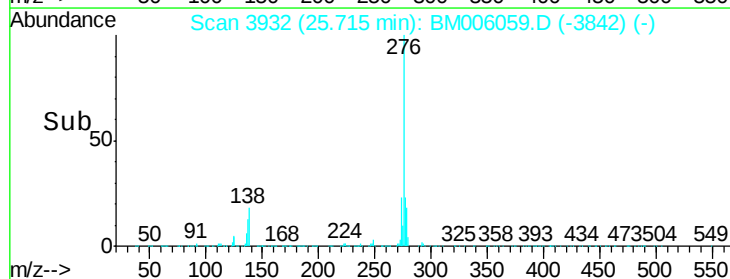
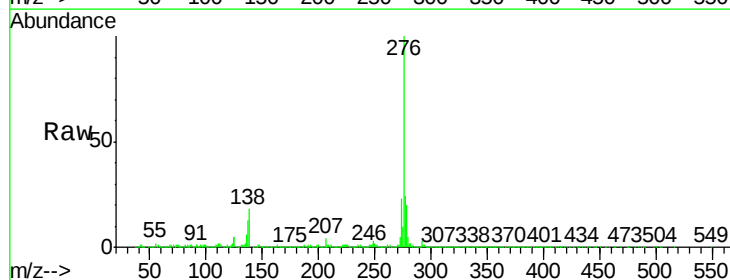
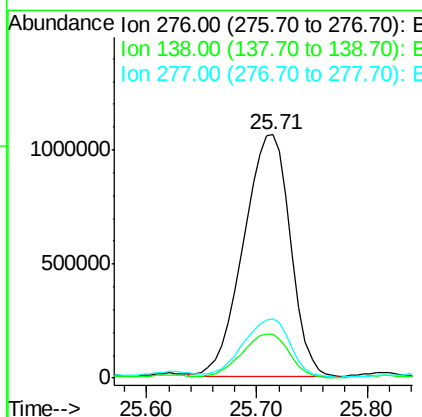
RT: 25.71 min Scan# 3932

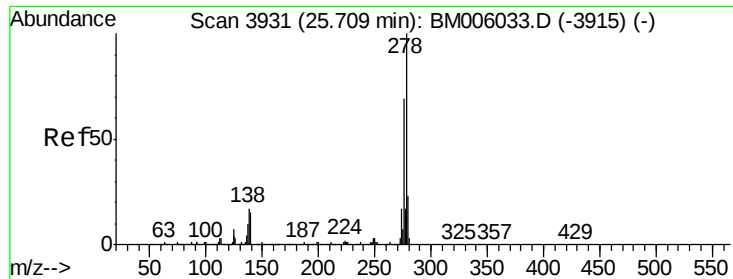
Delta R.T. 0.03 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Tgt Ion:	276	Resp:	3147179
Ion Ratio	Lower	Upper	
276	100		
138	18.2	16.6	25.0
277	24.4	19.6	29.4





#40

Dibenzo(a,h)anthracene

Concen: 8.77 ng/ul m

RT: 25.71 min Scan# 3932

Delta R.T. 0.01 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Instrument :

BNA_M

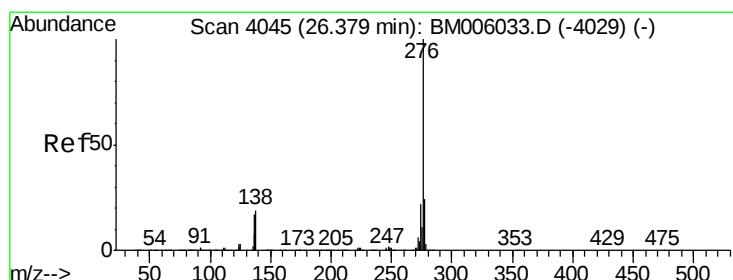
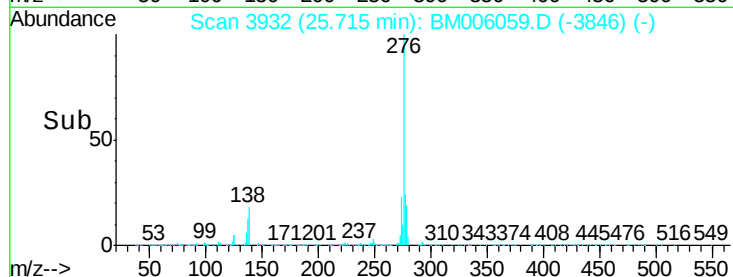
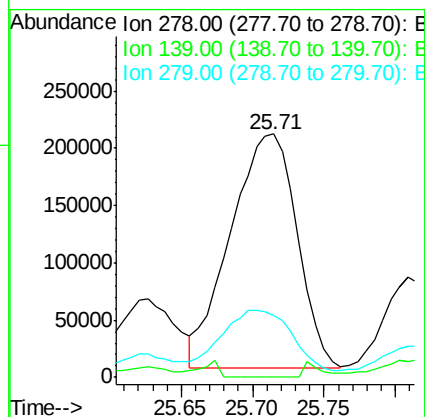
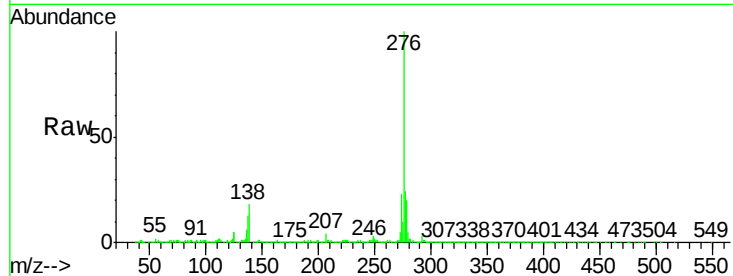
ClientSampleId :

D9YA4

Tgt Ion:	278	Resp:	659164
Ion Ratio	Lower	Upper	
278	100		
139	0.0	11.4	17.2#
279	25.2	18.8	28.2

Manual Integrations
APPROVED

sohil
6/27/2016 8:06:25 PM



#41

Benzo(g,h,i)perylene

Concen: 42.58 ng/ul

RT: 26.40 min Scan# 4049

Delta R.T. 0.02 min

Lab File: BM006059.D

Acq: 27 Jun 2016 02:59

Tgt Ion:	276	Resp:	3329598
Ion Ratio	Lower	Upper	
276	100		
138	19.0	15.9	23.9
277	24.4	19.2	28.8

