

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062616\
 Data File : BM006060.D
 Acq On : 27 Jun 2016 03:35
 Operator : UM/SJ
 Sample : H3670-17 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9Y99

Manual Integrations
 APPROVED

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

Quant Time: Jun 27 06:56:33 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	341557	20.00	ng/ul	0.00
7) Naphthalene-d8	10.44	136	1609580	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.31	164	929109	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.06	188	1998258	20.00	ng/ul	0.01
29) Chrysene-d12	21.26	240	1265943	20.00	ng/ul	0.01
34) Perylene-d12	23.48	264	1249126	20.00	ng/ul	0.01

System Monitoring Compounds

2) 1,4-Dioxane-d8	3.17	96	6540	0.86	ng/uL	0.00
3) Phenol-d5	6.83	99	299081	8.32	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	7.00	67	204946	10.25	ng/ul	0.00
5) 2-Chlorophenol-d4	7.19	132	249464	9.97	ng/ul	0.00
6) 4-Methylphenol-d8	8.36	113	149838	4.94	ng/ul	0.00
8) Nitrobenzene-d5	8.81	128	133432	10.89	ng/ul	0.00
9) 2-Nitrophenol-d4	9.53	143	141462	10.37	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.06	165	264199	10.10	ng/ul	0.00
12) 4-Chloroaniline-d4	10.58	131	167589	5.91	ng/ul	0.00
16) Dimethylphthalate-d6	13.72	166	855466	10.76	ng/ul	0.00
17) Acenaphthylene-d8	14.00	160	1083781	11.75	ng/ul	0.00
20) 4-Nitrophenol-d4	14.52	143	86743	5.11	ng/ul	0.01
21) Fluorene-d10	15.30	176	757431	11.15	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.44	200	22894	2.06	ng/ul	0.02
26) Anthracene-d10	17.16	188	1110449	12.10	ng/ul	0.00
30) Pyrene-d10	19.46	212	990448	17.86	ng/ul	0.02
37) Benzo(a)pyrene-d12	23.34	264	681425	12.08	ng/ul	0.02

Target Compounds

						Qvalue
11) Naphthalene	10.49	128	167388	2.08	ng/ul	99
18) Acenaphthylene	14.03	152	193947	1.99	ng/ul	97
19) Acenaphthene	14.37	153	357054	5.78	ng/ul	100
22) Fluorene	15.36	166	360930	4.85	ng/ul	99
25) Phenanthrene	17.11	178	6794785	63.22	ng/ul	98
27) Anthracene	17.19	178	1621516	14.61	ng/ul	100
28) Fluoranthene	19.13	202	9007092	65.42	ng/ul	97
31) Pyrene	19.50	202	7964117	109.89	ng/ul	96
32) Benzo(a)anthracene	21.24	228	3030404	40.30	ng/ul	98
33) Chrysene	21.29	228	2906160	42.30	ng/ul	97
35) Benzo(b)fluoranthene	22.81	252	3678213	50.68	ng/ul	98
36) Benzo(k)fluoranthene	22.86	252	1177826m	17.45	ng/ul	
38) Benzo(a)pyrene	23.39	252	2581461	37.10	ng/ul	100
39) Indeno(1,2,3-cd)pyrene	25.70	276	2212180	26.67	ng/ul	96
40) Dibenzo(a,h)anthracene	25.71	278	478775m	6.94	ng/ul	
41) Benzo(g,h,i)perylene	26.39	276	2341207	32.63	ng/ul	97

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

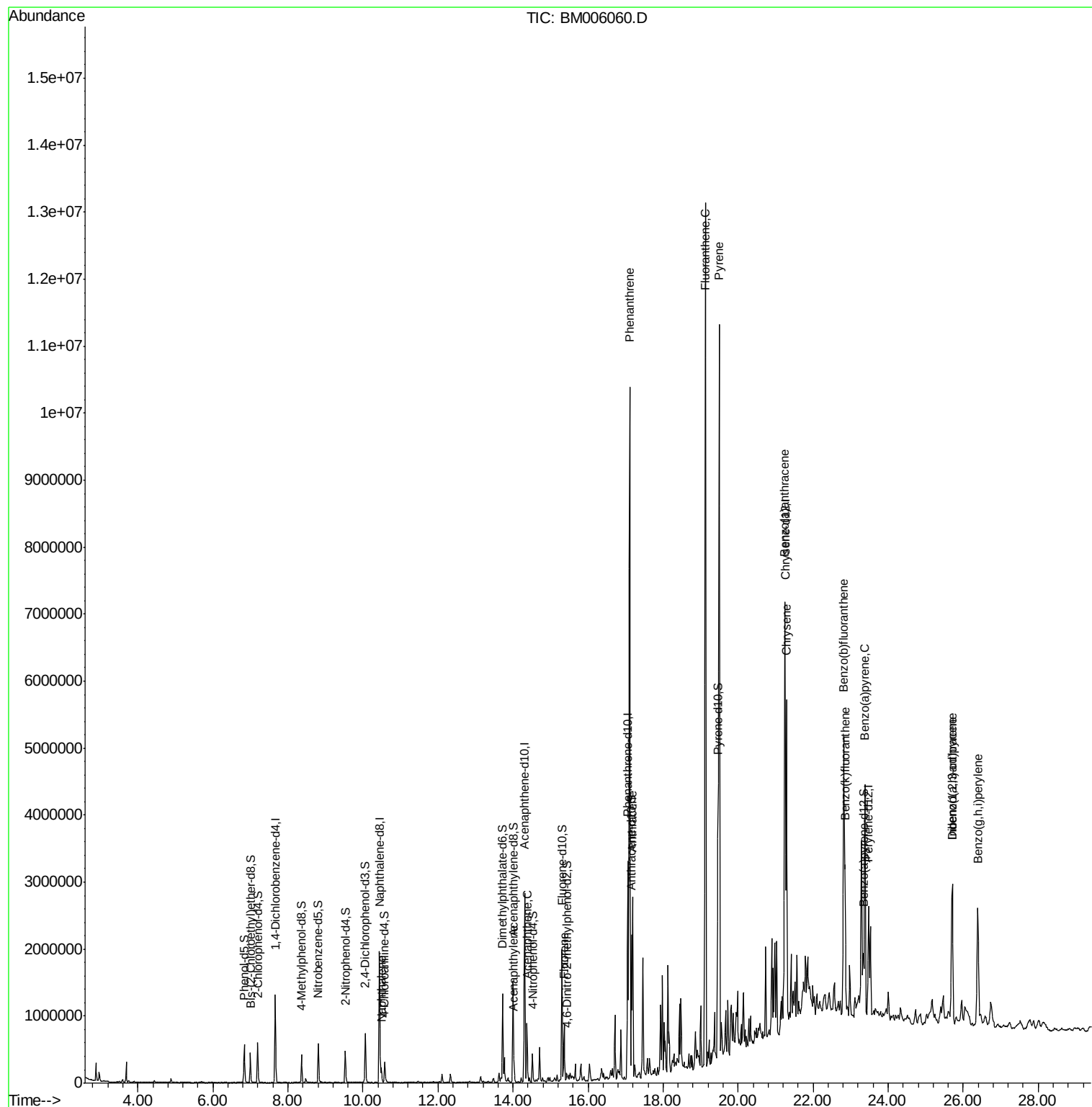
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062616\
Data File : BM006060.D
Acq On : 27 Jun 2016 03:35
Operator : UM/SJ
Sample : H3670-17 2X
Misc :
ALS Vial : 28 Sample Multiplier: 1

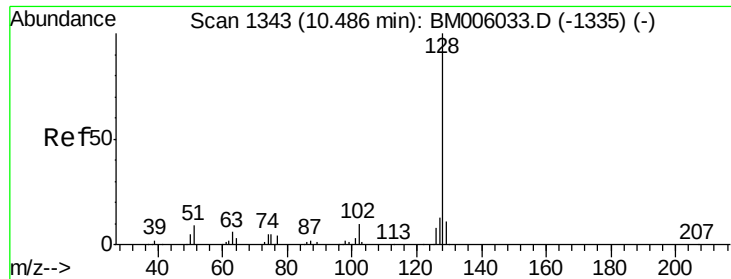
Instrument :
BNA_M
ClientSampleId :
D9Y99

Manual Integrations
APPROVED

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

Quant Time: Jun 27 06:56:33 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





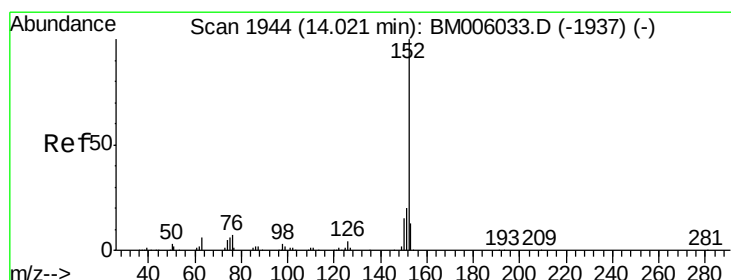
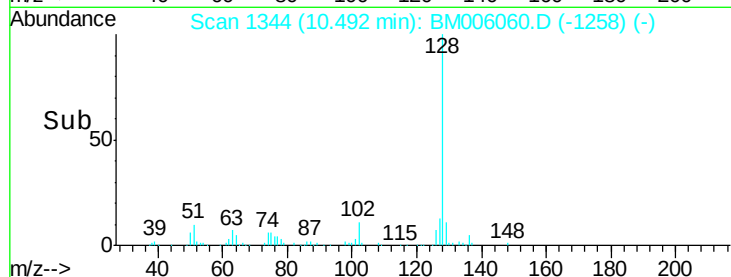
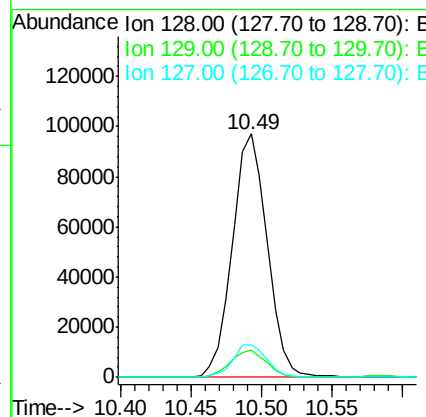
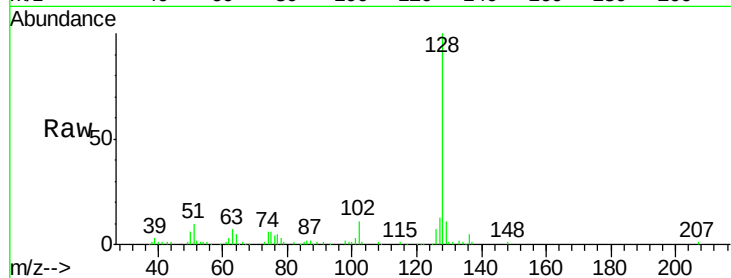
#11
Naphthalene
Concen: 2.08 ng/ul
RT: 10.49 min Scan# 1344
Delta R.T. 0.01 min
Lab File: BM006060.D
Acq: 27 Jun 2016 03:35

Instrument :
BNA_M
ClientSampleId :
D9Y99

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	167388		
129	11.1	8.6	13.0	
127	13.3	10.2	15.4	

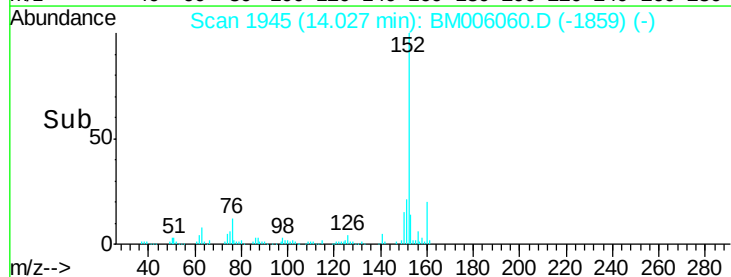
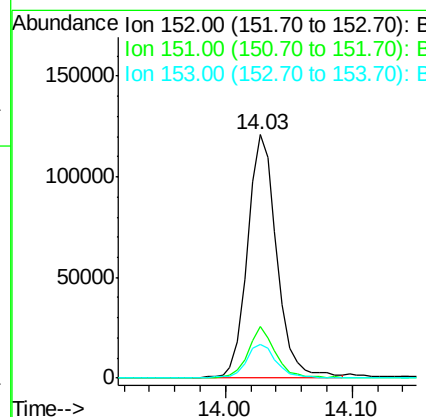
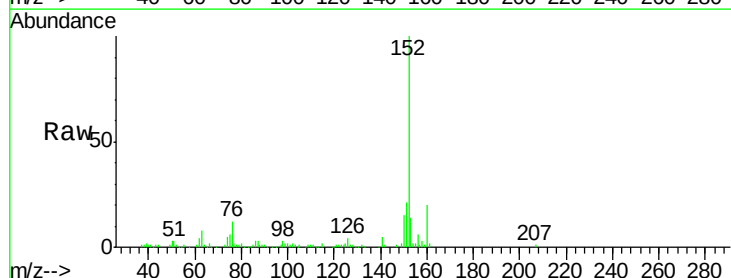
Manual Integrations
APPROVED

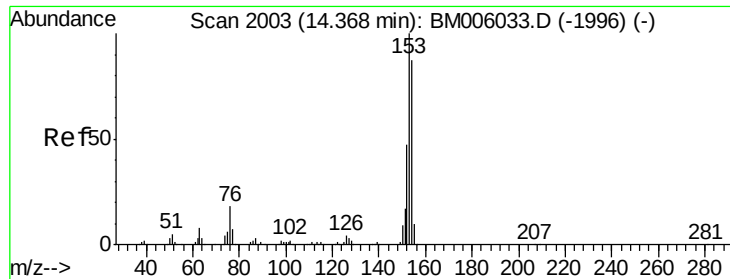
sohil
6/27/2016 8:06:27 PM



#18
Acenaphthylene
Concen: 1.99 ng/ul
RT: 14.03 min Scan# 1945
Delta R.T. 0.01 min
Lab File: BM006060.D
Acq: 27 Jun 2016 03:35

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	193947		
151	21.1	15.5	23.3	
153	13.9	10.5	15.7	





#19

Acenaphthene

Concen: 5.78 ng/ul

RT: 14.37 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BM006060.D

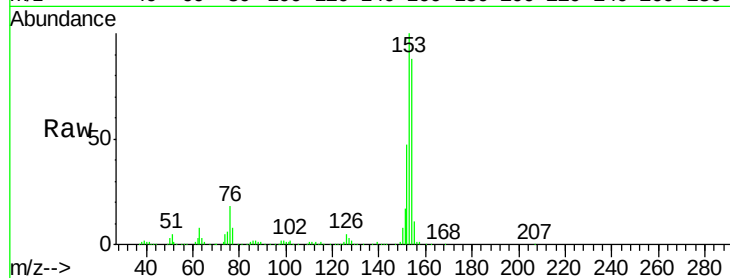
Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

ClientSampleId :

D9Y99



Tgt Ion:153 Resp: 357054

Ion Ratio Lower Upper

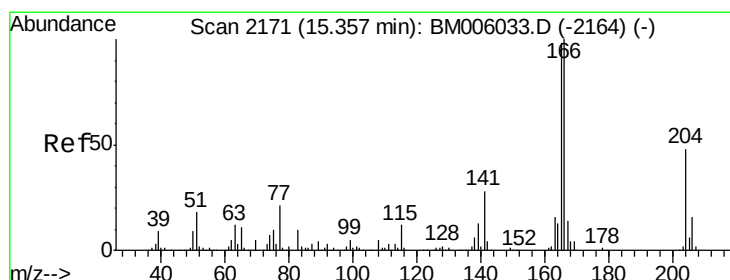
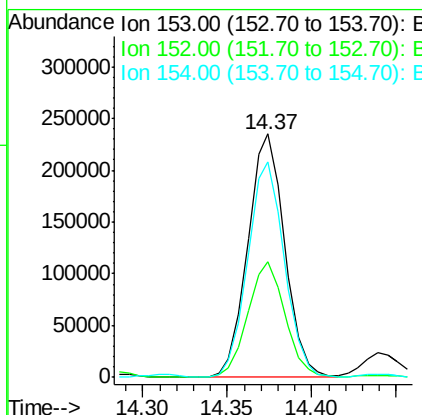
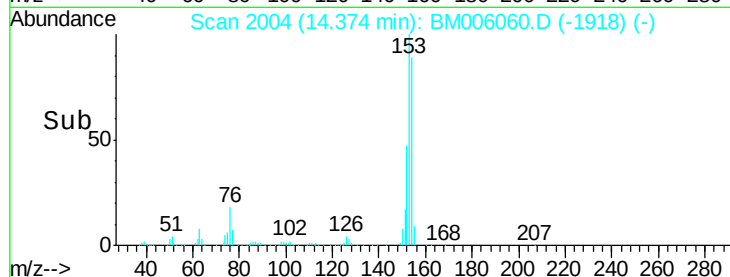
153 100

152 47.4 38.6 57.8

154 88.3 70.7 106.1

Manual Integrations
APPROVED

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



#22

Fluorene

Concen: 4.85 ng/ul

RT: 15.36 min Scan# 2172

Delta R.T. 0.01 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

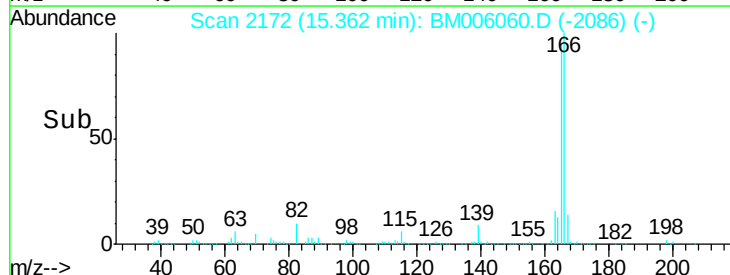
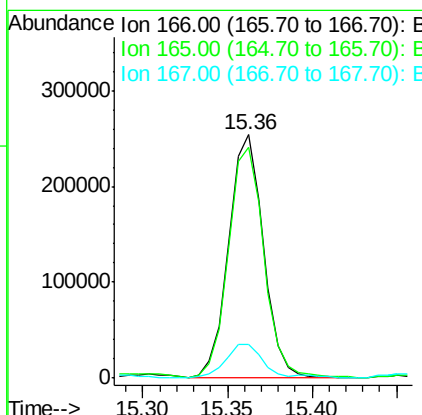
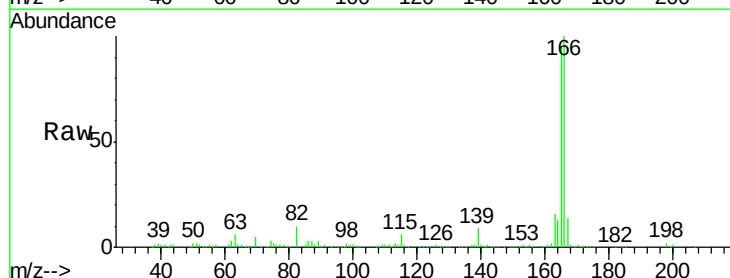
Tgt Ion:166 Resp: 360930

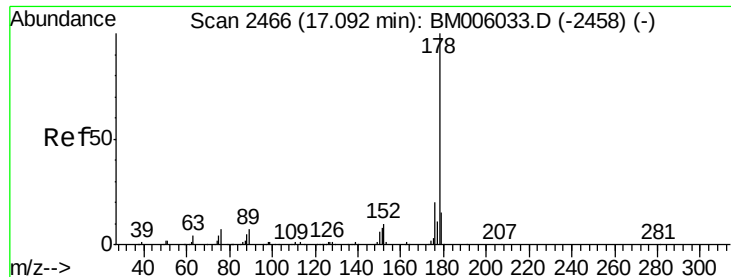
Ion Ratio Lower Upper

166 100

165 94.8 76.8 115.2

167 14.0 10.8 16.2





#25

Phenanthrene

Concen: 63.22 ng/ul

RT: 17.11 min Scan# 2469

Delta R.T. 0.02 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

ClientSampleId :

D9Y99

Tgt Ion:178 Resp: 6794785

Ion Ratio Lower Upper

178 100

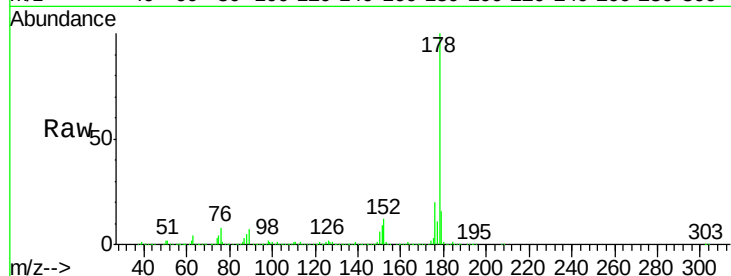
179 15.7 12.1 18.1

176 19.9 15.4 23.0

Manual Integrations
APPROVED

sohil

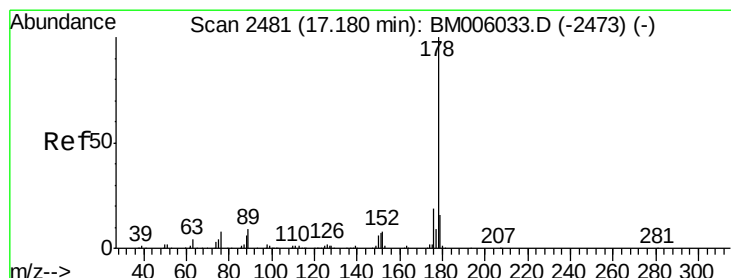
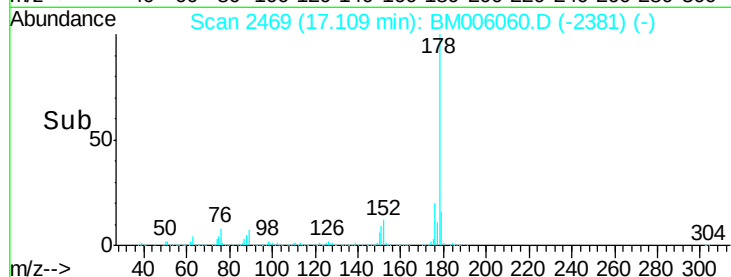
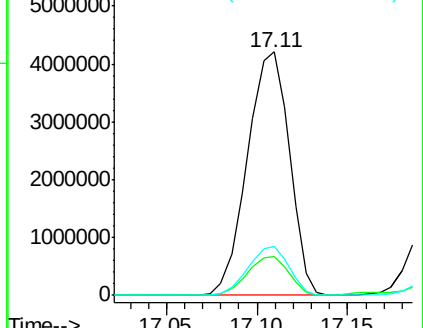
6/27/2016 8:06:27 PM



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: 14.61 ng/ul

RT: 17.19 min Scan# 2483

Delta R.T. 0.01 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Tgt Ion:178 Resp: 1621516

Ion Ratio Lower Upper

178 100

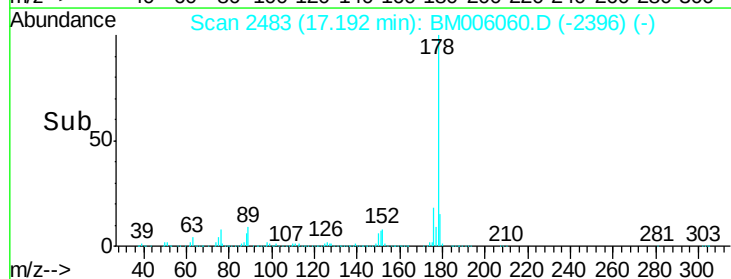
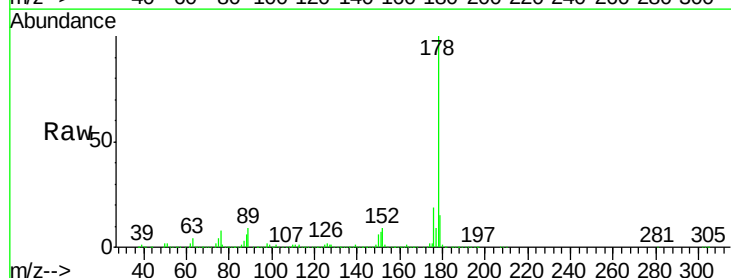
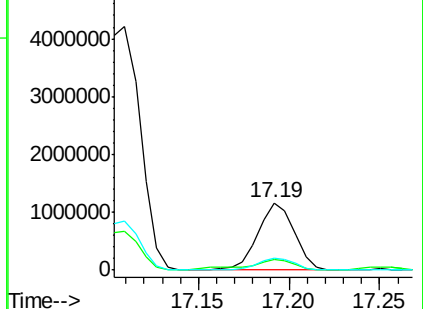
179 15.5 12.2 18.4

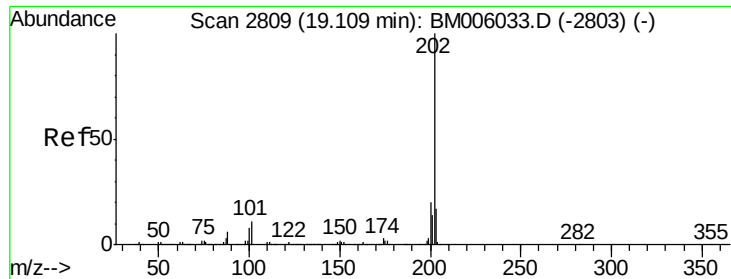
176 18.5 14.9 22.3

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





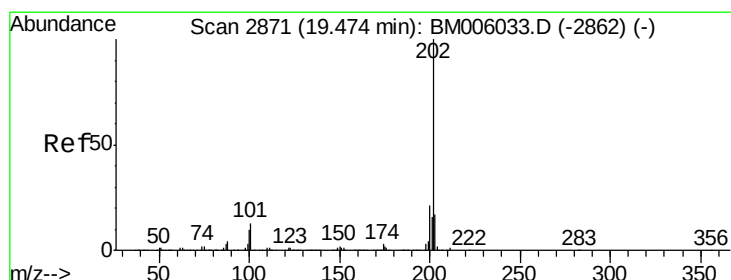
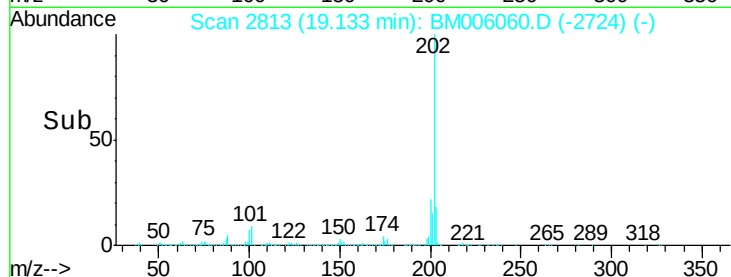
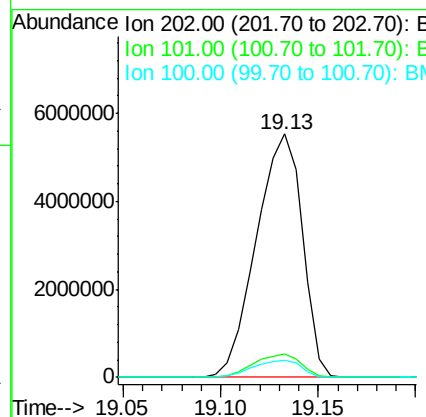
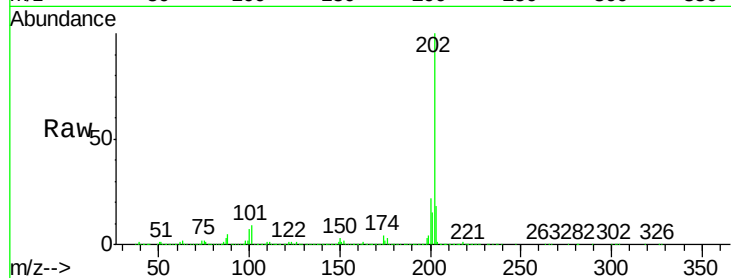
#28
Fluoranthene
Concen: 65.42 ng/ul
RT: 19.13 min Scan# 2813
Delta R.T. 0.02 min
Lab File: BM006060.D
Acq: 27 Jun 2016 03:35

Instrument :
BNA_M
ClientSampleId :
D9Y99

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	9007092		
101	9.4		8.2	12.4
100	6.8		6.3	9.5

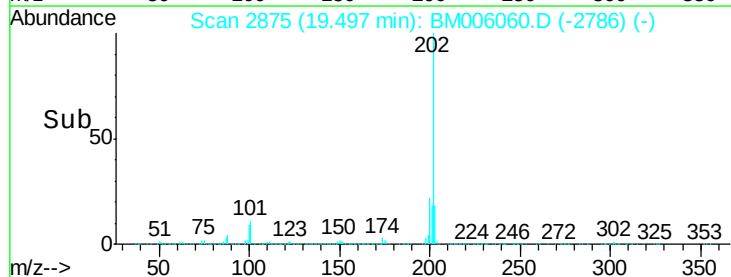
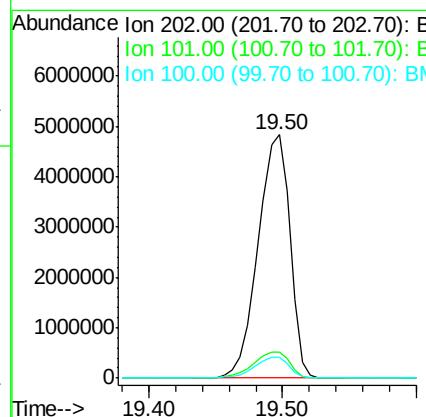
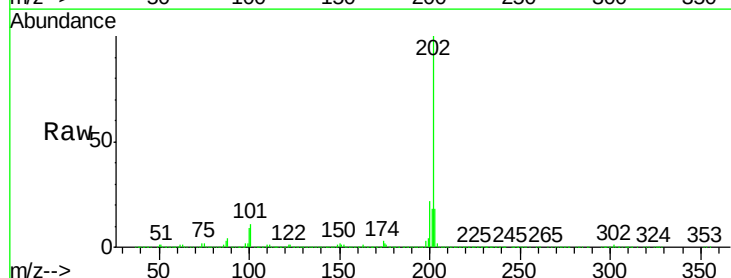
Manual Integrations
APPROVED

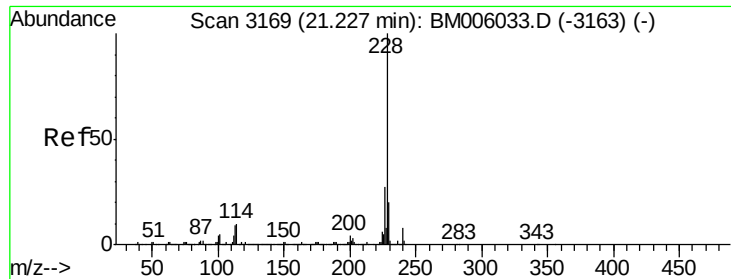
sohil
6/27/2016 8:06:27 PM



#31
Pyrene
Concen: 109.89 ng/ul
RT: 19.50 min Scan# 2875
Delta R.T. 0.02 min
Lab File: BM006060.D
Acq: 27 Jun 2016 03:35

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	7964117		
101	10.9		9.8	14.6
100	8.5		8.2	12.2





#32

Benzo(a)anthracene

Concen: 40.30 ng/ul

RT: 21.24 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

ClientSampleId :

D9Y99

Tgt Ion:228 Resp: 3030404

Ion Ratio Lower Upper

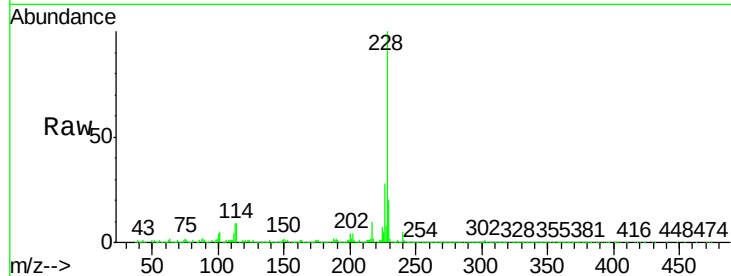
228 100

229 20.4 15.8 23.6

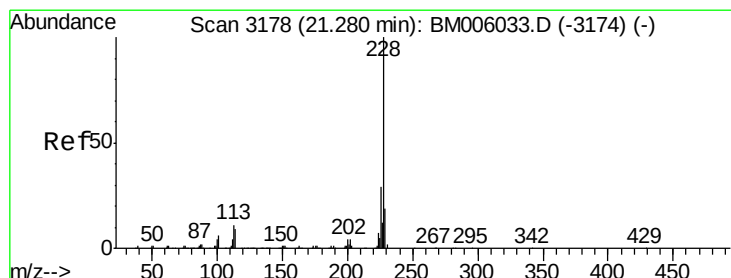
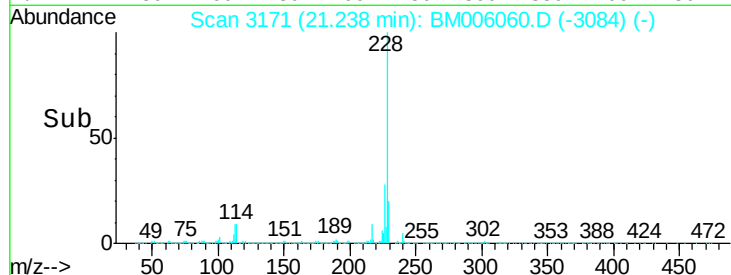
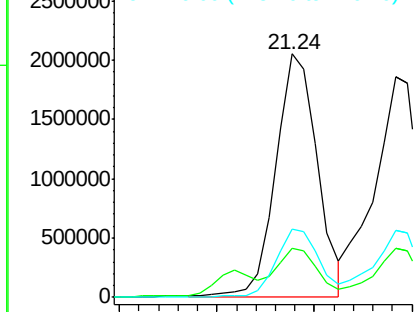
226 27.8 21.5 32.3

Manual Integrations
APPROVED

sohil
6/27/2016 8:06:27 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: 42.30 ng/ul

RT: 21.29 min Scan# 3180

Delta R.T. 0.01 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Tgt Ion:228 Resp: 2906160

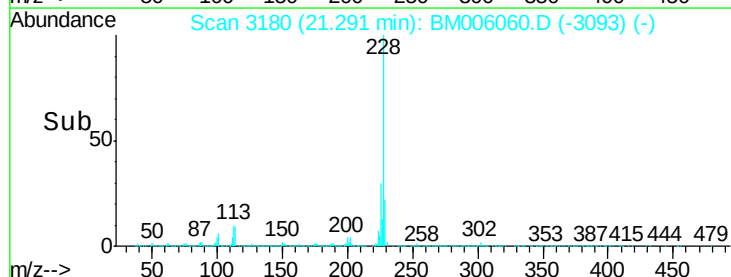
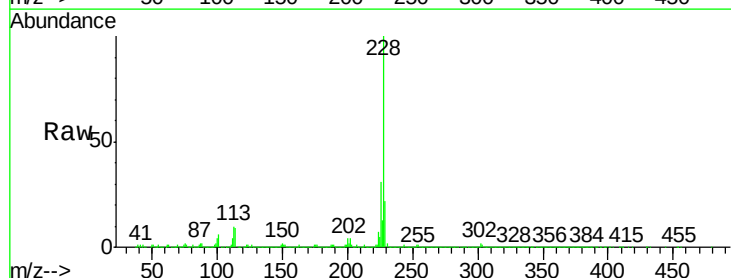
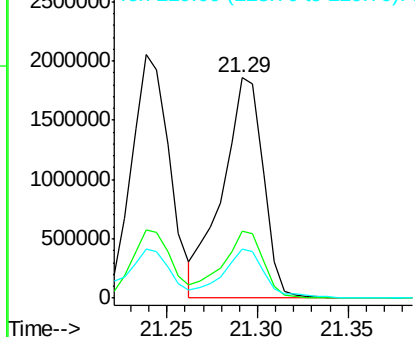
Ion Ratio Lower Upper

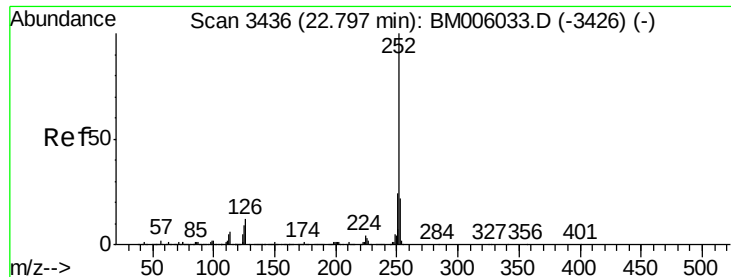
228 100

226 30.5 24.3 36.5

229 22.3 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: 50.68 ng/ul

RT: 22.81 min Scan# 3439

Delta R.T. 0.02 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

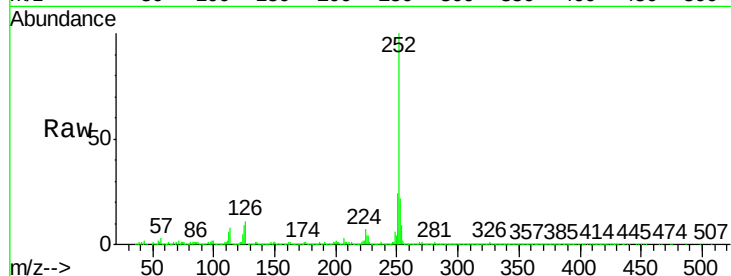
ClientSampleId :

D9Y99

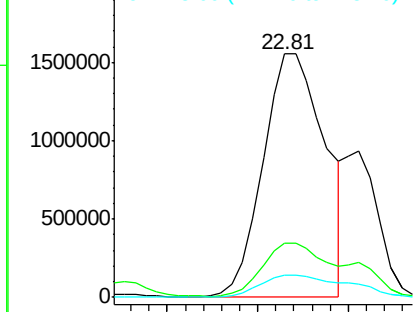
Tgt Ion:	252	Resp:	3678213
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	9.0	6.8	10.2

Manual Integrations
APPROVED

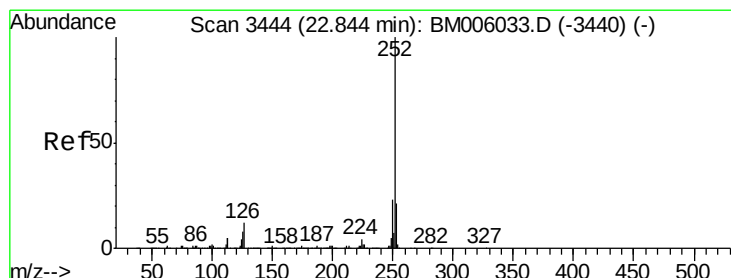
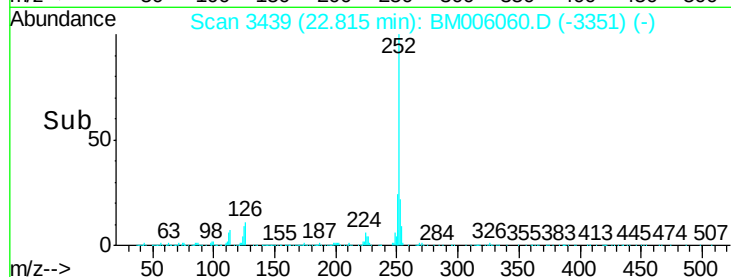
sohil
6/27/2016 8:06:27 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->



#36

Benzo(k)fluoranthene

Concen: 17.45 ng/ul m

RT: 22.86 min Scan# 3446

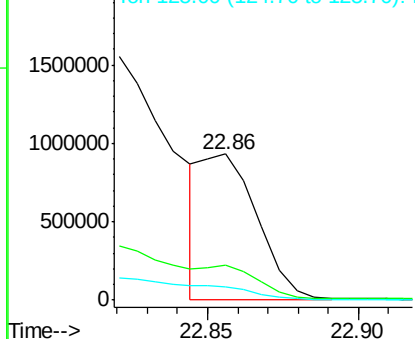
Delta R.T. 0.01 min

Lab File: BM006060.D

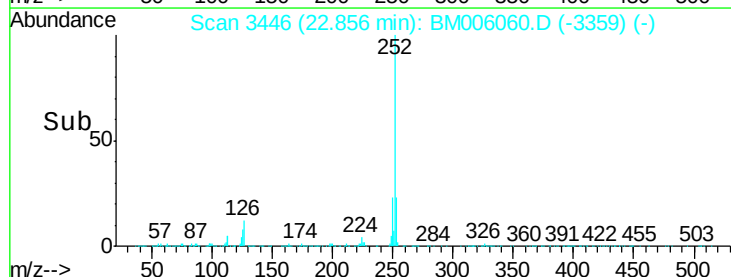
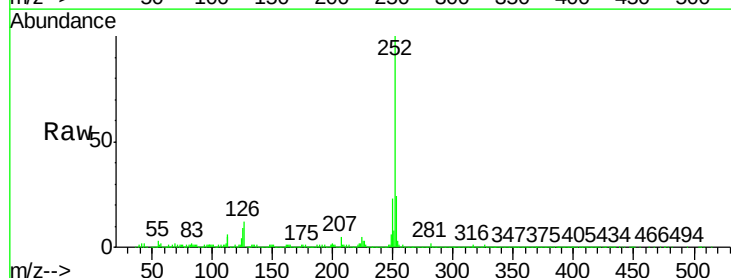
Acq: 27 Jun 2016 03:35

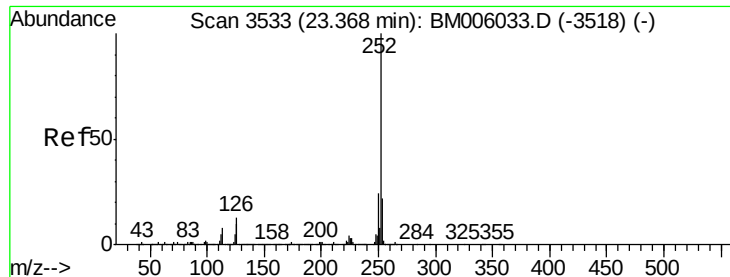
Tgt Ion:	252	Resp:	1177826
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.3	25.9
125	8.8	7.0	10.4

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



Time-->





#38

Benzo(a)pyrene

Concen: 37.10 ng/ul

RT: 23.39 min Scan# 3536

Delta R.T. 0.02 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

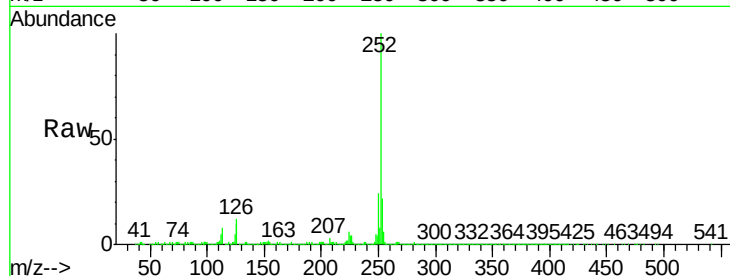
ClientSampleId :

D9Y99

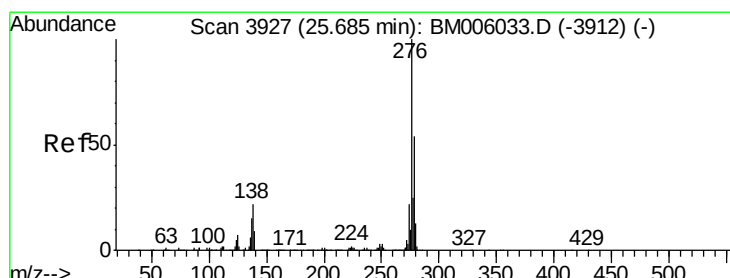
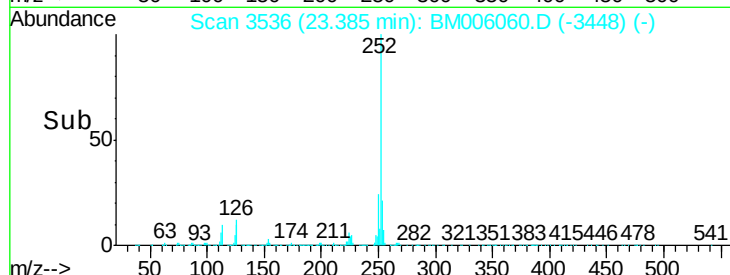
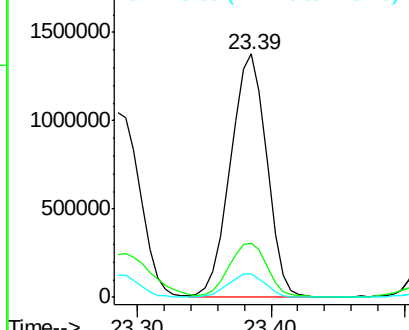
Tgt Ion:	252	Resp:	2581461
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.6	26.4
125	9.7	7.8	11.6

Manual Integrations
APPROVED

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



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



#39

Indeno(1,2,3-cd)pyrene

Concen: 26.67 ng/ul

RT: 25.70 min Scan# 3930

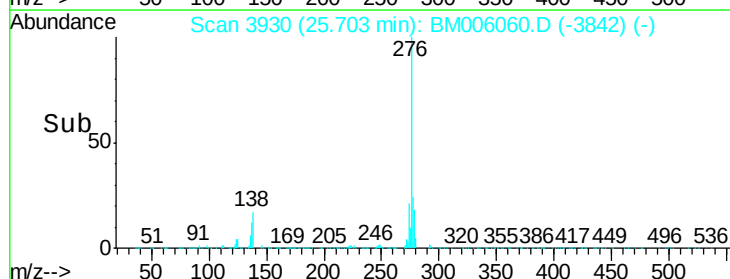
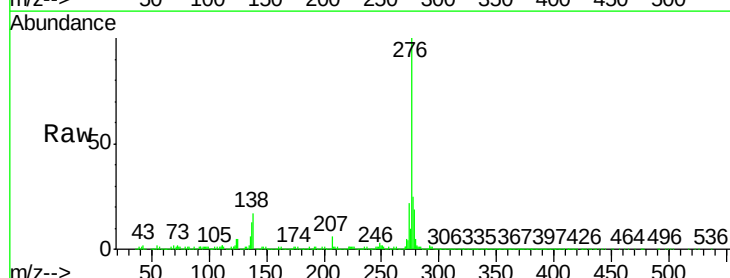
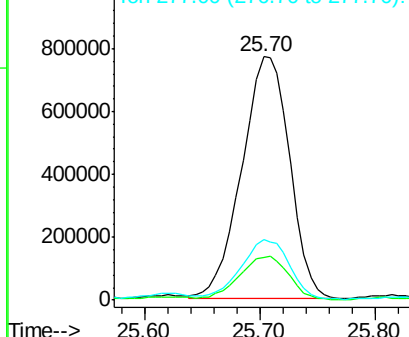
Delta R.T. 0.02 min

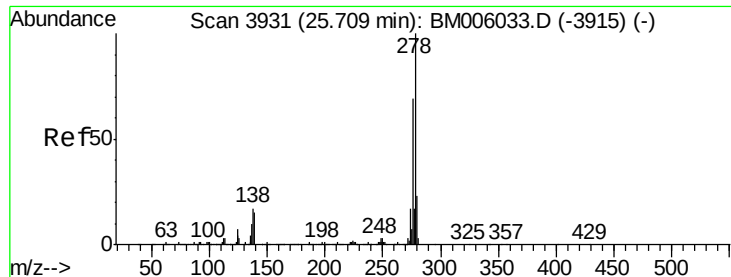
Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Tgt Ion:	276	Resp:	2212180
Ion Ratio	Lower	Upper	
276	100		
138	17.5	16.6	25.0
277	24.9	19.6	29.4

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





#40

Dibenzo(a,h)anthracene

Concen: 6.94 ng/ul m

RT: 25.71 min Scan# 3931

Delta R.T. -0.00 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Instrument :

BNA_M

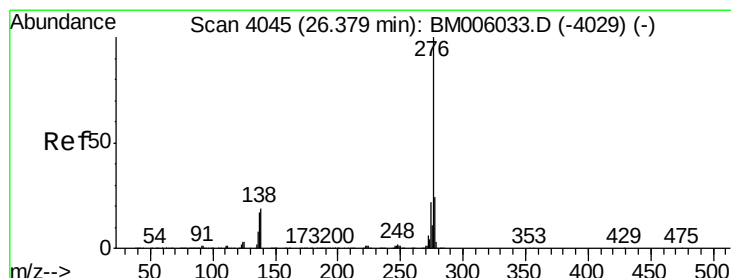
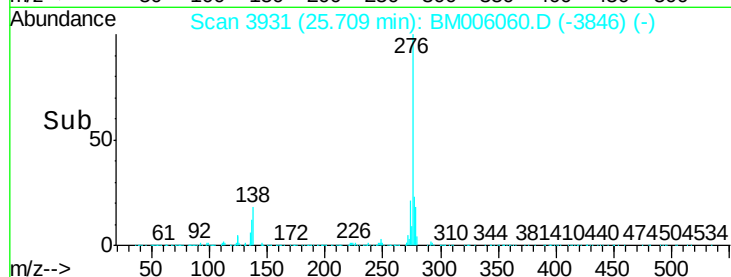
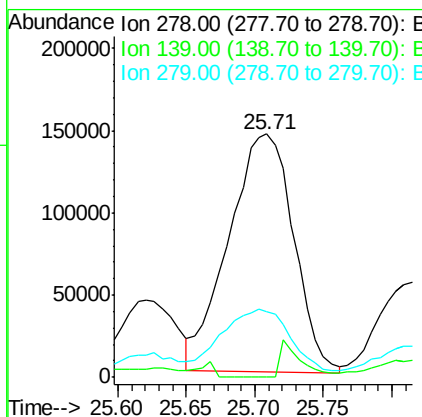
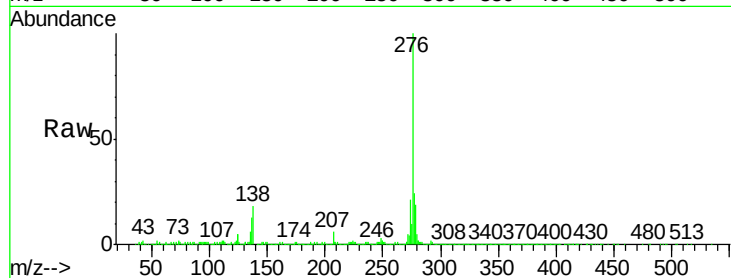
ClientSampleId :

D9Y99

Tgt Ion:	278	Resp:	478775
Ion Ratio	Lower	Upper	
278	100		
139	0.0	11.4	17.2#
279	26.8	18.8	28.2

Manual Integrations
APPROVED

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



#41

Benzo(g,h,i)perylene

Concen: 32.63 ng/ul

RT: 26.39 min Scan# 4047

Delta R.T. 0.01 min

Lab File: BM006060.D

Acq: 27 Jun 2016 03:35

Tgt Ion:	276	Resp:	2341207
Ion Ratio	Lower	Upper	
276	100		
138	18.0	15.9	23.9
277	23.3	19.2	28.8

