

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
 Data File : BM014386.D
 Acq On : 27 Feb 2018 17:13
 Operator : SJ/JU
 Sample : J1631-08
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE5Y9

Manual Integrations
 APPROVED

Sohil
 2/28/2018 1:59:14 PM

Quant Time: Feb 28 01:09:26 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Feb 28 00:45:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	103906	20.00	ng/ul	0.00
18) Naphthalene-d8	10.29	136	434752	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.18	164	239670	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.94	188	503188	20.00	ng/ul	0.00
75) Chrysene-d12	21.16	240	493360	20.00	ng/ul	0.00
83) Perylene-d12	23.34	264	479990	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.10	96	13110	5.40	ng/uL	0.00
5) Phenol-d5	6.73	99	240568	27.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.87	67	158359	29.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	205268	30.48	ng/ul	0.00
13) 4-Methylphenol-d8	8.25	113	183947	23.94	ng/ul	0.01
19) Nitrobenzene-d5	8.68	128	104613	32.56	ng/ul	0.00
22) 2-Nitrophenol-d4	9.39	143	119269	35.87	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.94	165	194575	28.25	ng/ul	0.01
29) 4-Chloroaniline-d4	10.46	131	150477	22.18	ng/ul	0.01
43) Dimethylphthalate-d6	13.60	166	658111	33.25	ng/ul	0.00
46) Acenaphthylene-d8	13.87	160	824959	33.80	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	58993m	21.59	ng/ul	0.02
57) Fluorene-d10	15.18	176	550893	31.07	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.34	200	21414	7.09	ng/ul	0.00
70) Anthracene-d10	17.04	188	811896	33.44	ng/ul	0.00
76) Pyrene-d10	19.35	212	839613	33.00	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.20	264	747025	31.98	ng/ul	0.02

Target Compounds

					Ovalue	
14) Acetophenone	8.35	105	17211	1.298	ng/ul#	74
28) Naphthalene	10.34	128	61927	2.773	ng/ul	97
34) 2-Methylnaphthalene	11.97	142	28246m	1.662	ng/ul	
44) Dimethylphthalate	13.65	163	130707	6.697	ng/ul	99
47) Acenaphthylene	13.90	152	68998	2.991	ng/ul	97
49) Acenaphthene	14.25	153	50638	3.117	ng/ul#	85
53) Dibenzofuran	14.59	168	39500	1.622	ng/ul#	83
58) Fluorene	15.23	166	53910m	2.564	ng/ul	
69) Phenanthrene	16.99	178	956589	32.995	ng/ul	99
71) Anthracene	17.07	178	259836	8.912	ng/ul	98
72) Carbazole	17.36	167	93443	3.811	ng/ul	98
73) Di-n-butylphthalate	17.92	149	49239	1.557	ng/ul#	90
74) Fluoranthene	19.02	202	1783250	51.483	ng/ul#	92
77) Pyrene	19.38	202	1668763	50.897	ng/ul#	92
78) Butylbenzylphthalate	20.29	149	67740	4.997	ng/ul#	78
80) Benzo(a)anthracene	21.14	228	919244	29.855	ng/ul	94
81) Bis(2-ethylhexyl)phthalate	21.08	149	4868751	250.764	ng/ul#	96
82) Chrysene	21.19	228	875231	30.471	ng/ul	98
85) Benzo(b)fluoranthene	22.69	252	1138015	35.409	ng/ul#	95
86) Benzo(k)fluoranthene	22.72	252	405678m	13.276	ng/ul	
88) Benzo(a)pyrene	23.24	252	843571	29.373	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	25.50	276	580060	20.814	ng/ul#	91
90) Dibenzo(a,h)anthracene	25.50	278	152673	6.593	ng/ul#	85

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
Data File : BM014386.D
Acq On : 27 Feb 2018 17:13
Operator : SJ/JU
Sample : J1631-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BE5Y9

Manual Integrations
APPROVED

Sohil
2/28/2018 1:59:14 PM

Quant Time: Feb 28 01:09:26 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Feb 28 00:45:45 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.17	276	464751	20.586	ng/ul#	95

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

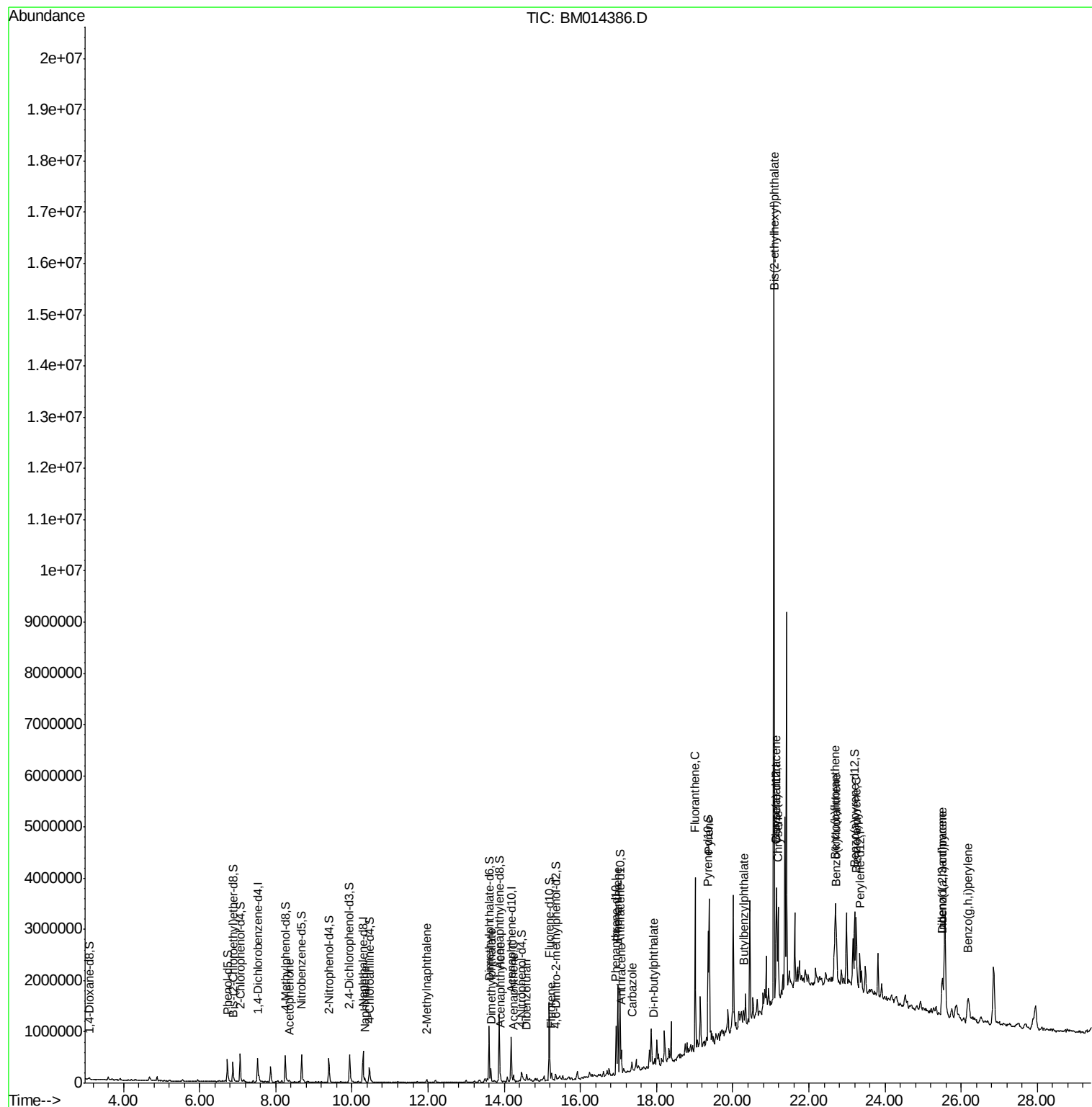
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022718\
Data File : BM014386.D
Acq On : 27 Feb 2018 17:13
Operator : SJ/JU
Sample : J1631-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

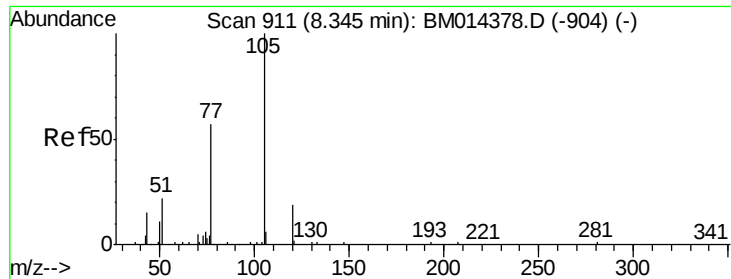
Instrument :
BNA_M
ClientSampleId :
BE5Y9

Manual Integrations
APPROVED

Sohil
2/28/2018 1:59:14 PM

Quant Time: Feb 28 01:09:26 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Feb 28 00:45:45 2018
Response via : Initial Calibration





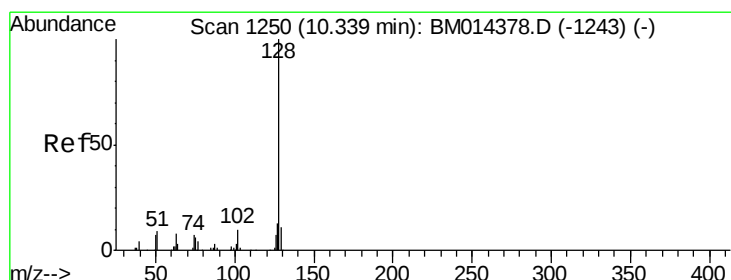
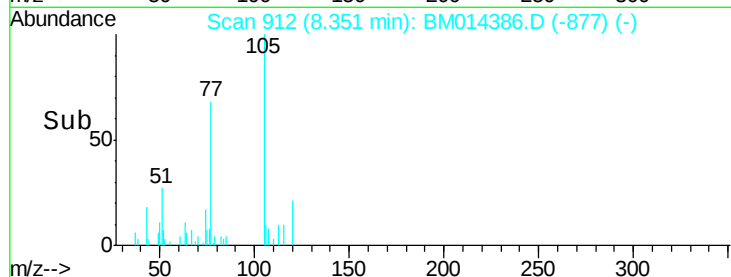
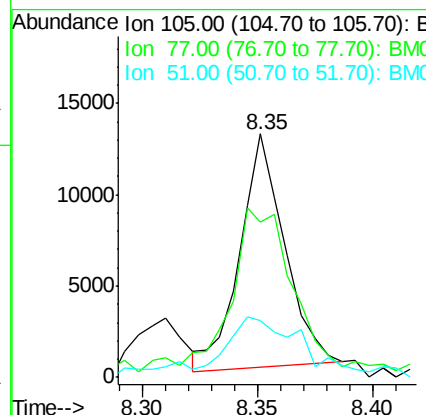
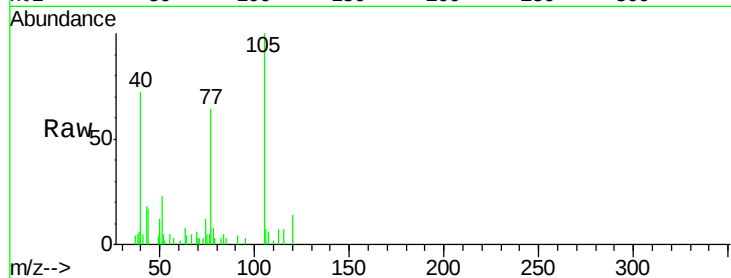
#14
Acetophenone
Concen: 1.298 ng/ul
RT: 8.35 min Scan# 912
Delta R.T. 0.01 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Instrument :
BNA_M
ClientSampleId :
BE5Y9

Tot Ion	Ratio	Lower	Upper
105	100		
77	63.7	74.2	111.4#
51	23.5	23.4	35.2

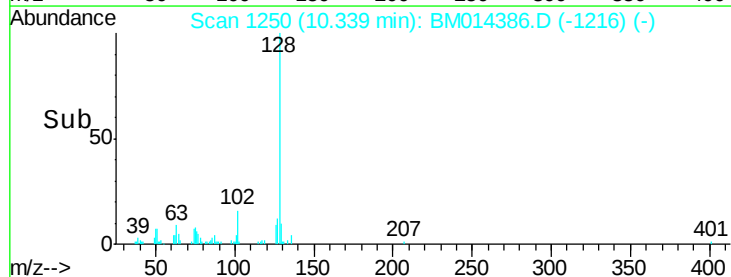
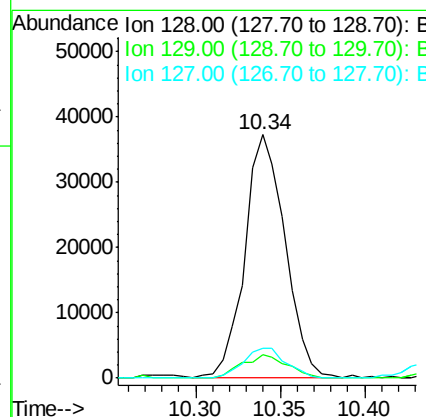
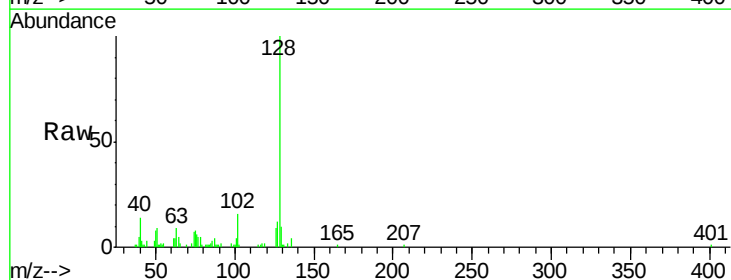
Manual Integrations
APPROVED

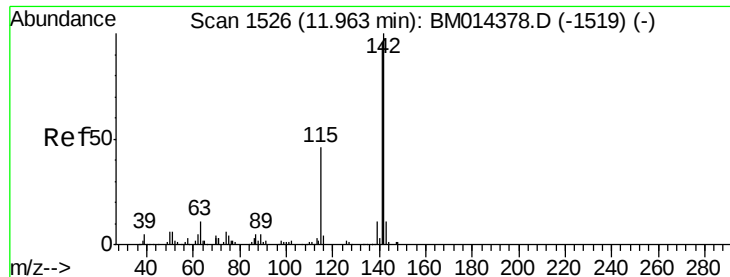
Sohil
2/28/2018 1:59:14 PM



#28
Naphthalene
Concen: 2.773 ng/ul
RT: 10.34 min Scan# 1250
Delta R.T. -0.00 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.7	8.8	13.2
127	12.5	10.6	16.0





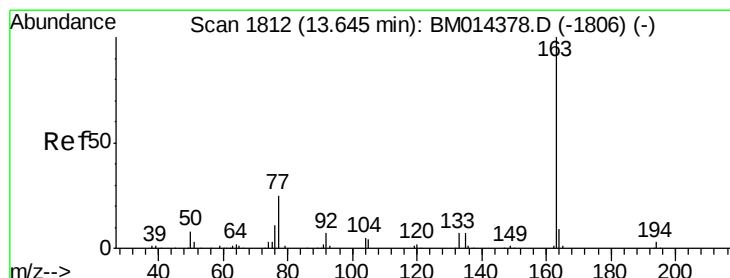
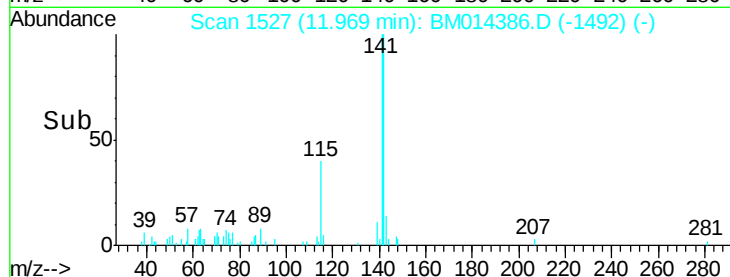
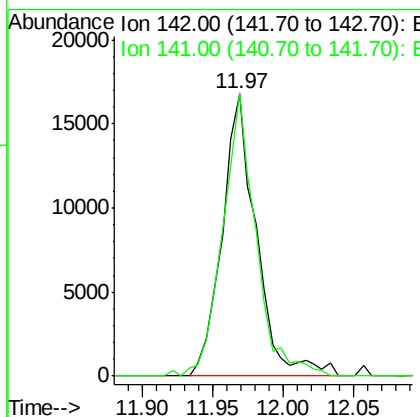
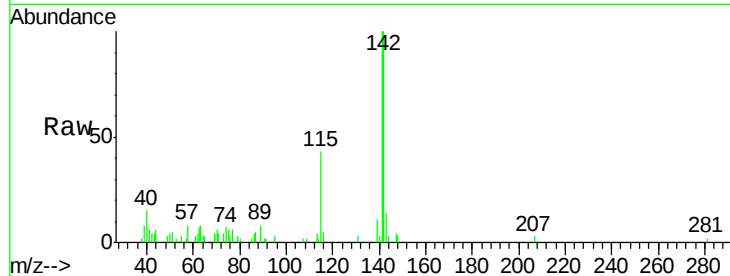
#34
2-Methylnaphthalene
Concen: 1.662 ng/ul m
RT: 11.97 min Scan# 1527
Delta R.T. 0.01 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Instrument :
BNA_M
ClientSampleId :
BE5Y9

Tot Ion	Ratio	Lower	Upper
142	100		
141	100.2	74.1	111.1

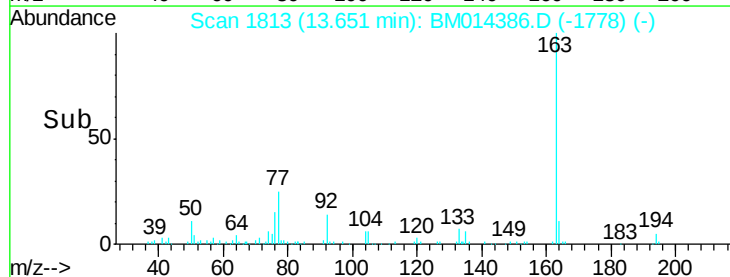
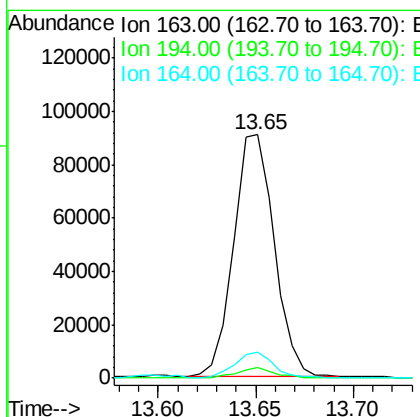
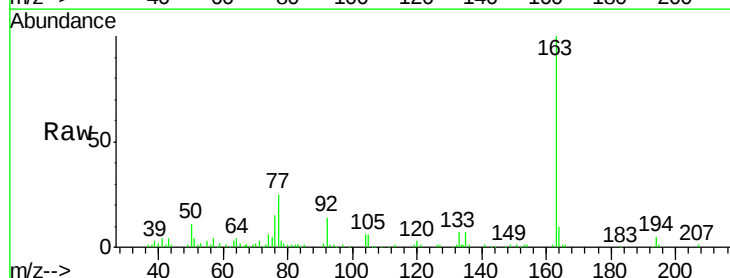
Manual Integrations
APPROVED

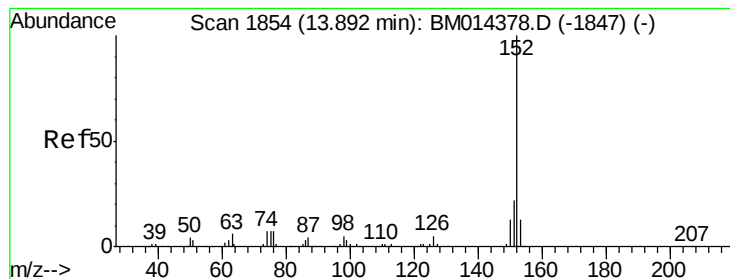
Sohil
2/28/2018 1:59:14 PM



#44
Dimethylphthalate
Concen: 6.697 ng/ul
RT: 13.65 min Scan# 1813
Delta R.T. 0.01 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.5	5.3
164	10.5	8.2	12.4





#47

Acenaphthylene

Concen: 2.991 ng/ul

RT: 13.90 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

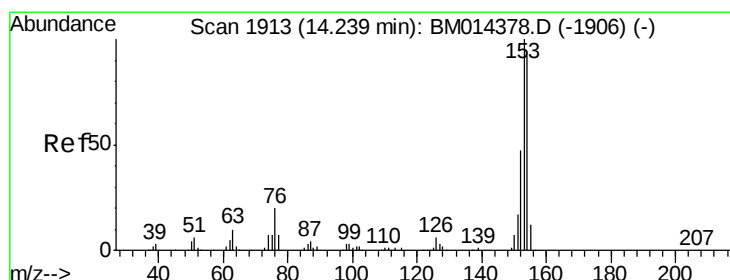
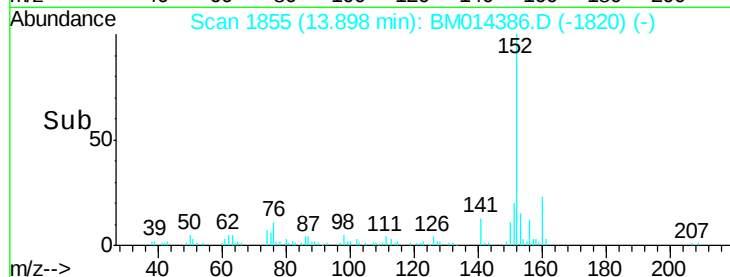
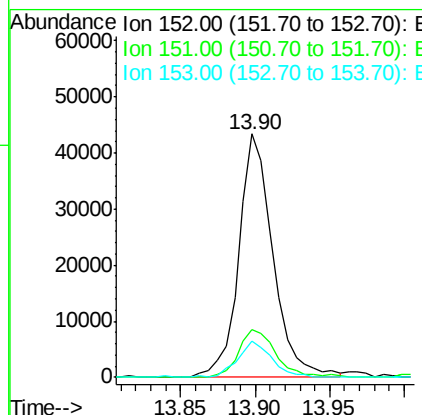
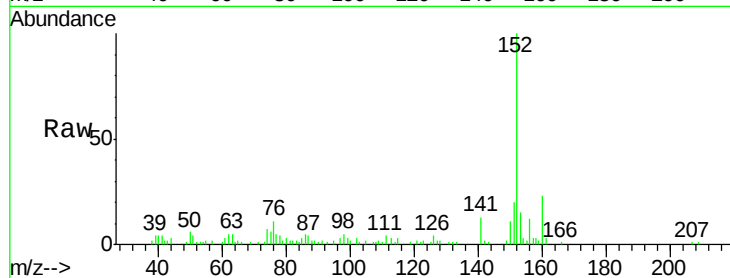
ClientSampled :

BE5Y9

Tot Ion:	152	Resp:	68998
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.3	24.5
153	14.7	10.2	15.4

Manual Integrations
APPROVED

Sohil
2/28/2018 1:59:14 PM



#49

Acenaphthene

Concen: 3.117 ng/ul

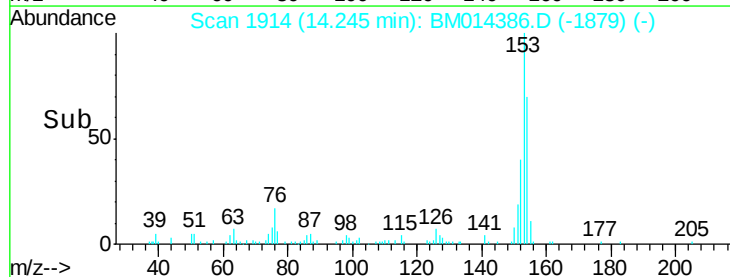
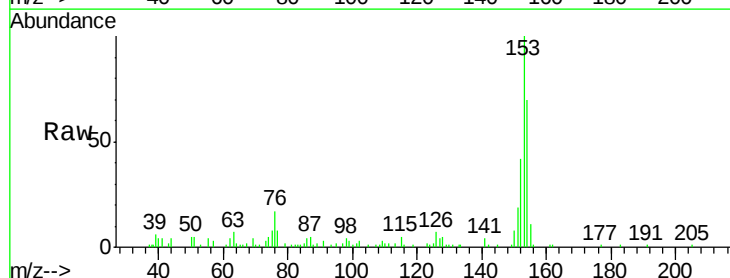
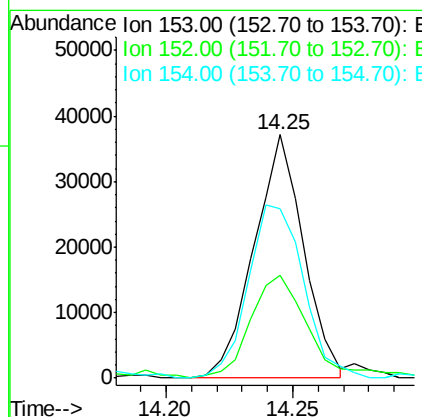
RT: 14.25 min Scan# 1914

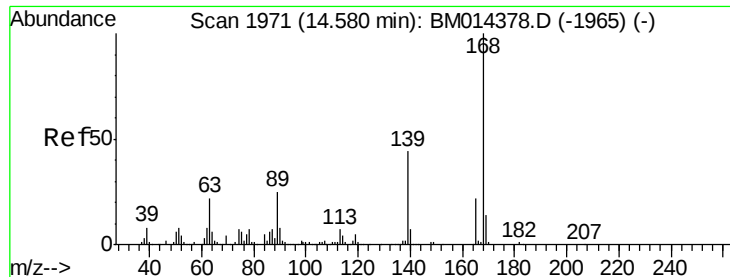
Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Tgt Ion:	153	Resp:	50638
Ion Ratio	Lower	Upper	
153	100		
152	42.1	37.6	56.4
154	69.6	70.4	105.6#





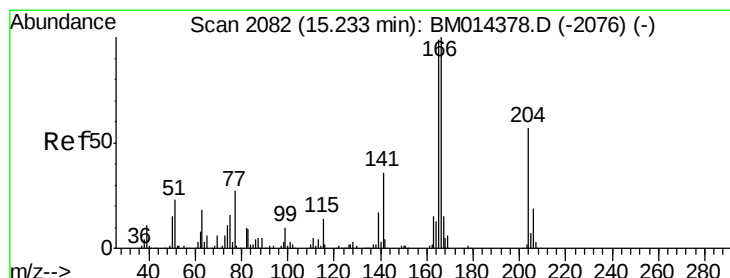
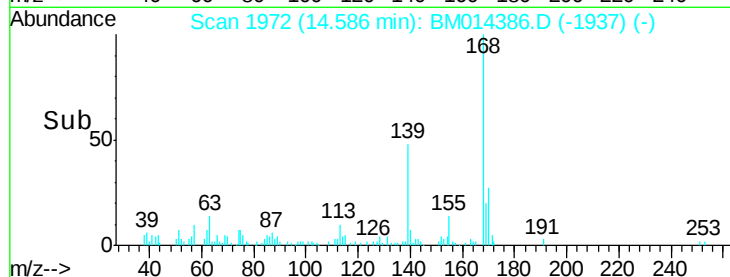
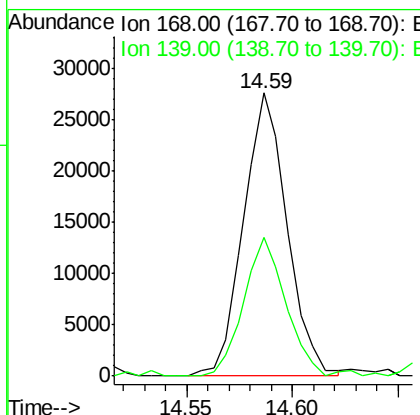
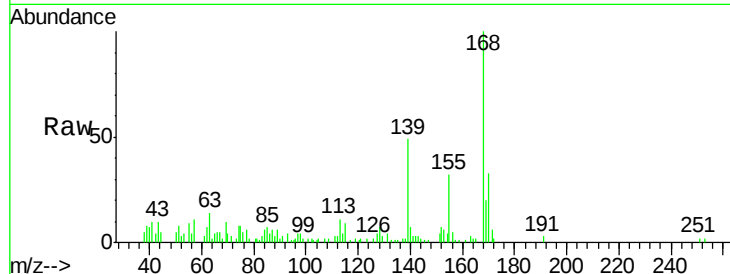
#53
Dibenzofuran
Concen: 1.622 ng/ul
RT: 14.59 min Scan# 1972
Delta R.T. 0.01 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Instrument :
BNA_M
ClientSampleId :
BE5Y9

Tot Ion:168 Resp: 39500
Ion Ratio Lower Upper
168 100
139 48.9 30.8 46.2#

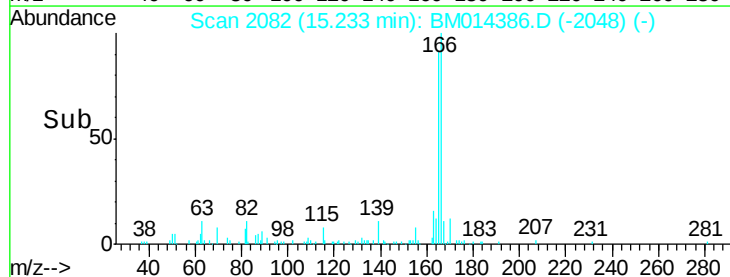
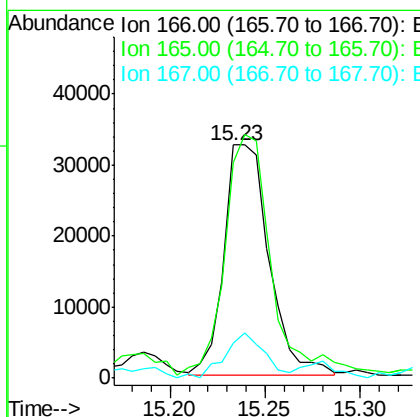
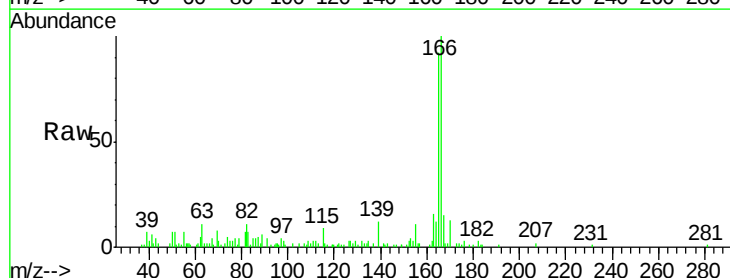
Manual Integrations
APPROVED

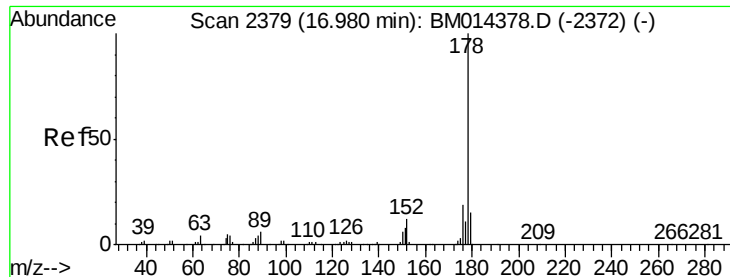
Sohil
2/28/2018 1:59:14 PM



#58
Fluorene
Concen: 2.564 ng/ul m
RT: 15.23 min Scan# 2082
Delta R.T. -0.00 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Tgt Ion:166 Resp: 53910
Ion Ratio Lower Upper
166 100
165 92.5 77.9 116.9
167 14.9 10.6 16.0





#69

Phenanthrene

Concen: 32.995 ng/ul

RT: 16.99 min Scan# 2380

Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

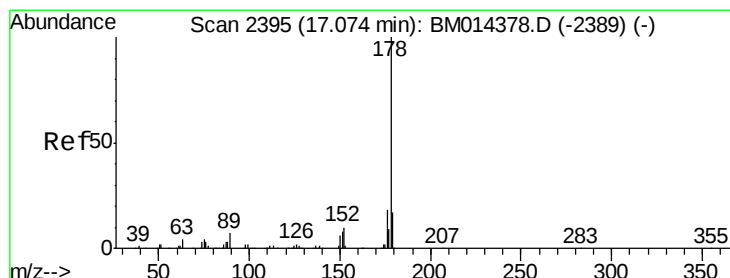
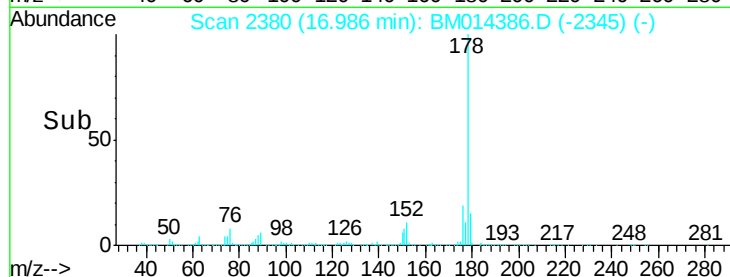
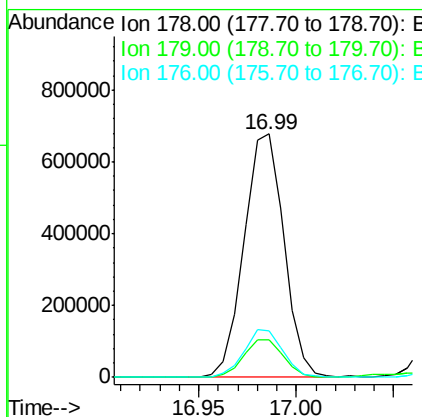
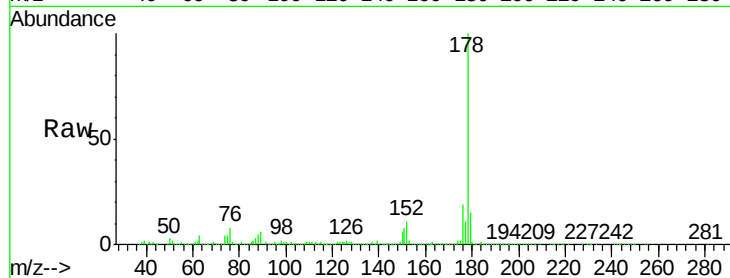
ClientSampleId :

BE5Y9

Tot Ion:	178	Resp:	956589
Ion Ratio	Lower	Upper	
178	100		
179	15.4	12.6	19.0
176	19.0	14.9	22.3

Manual Integrations
APPROVED

Sohil
2/28/2018 1:59:14 PM



#71

Anthracene

Concen: 8.912 ng/ul

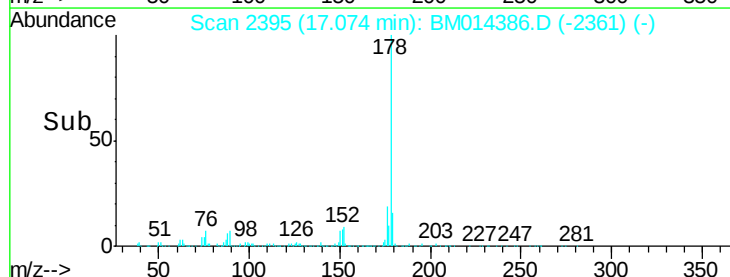
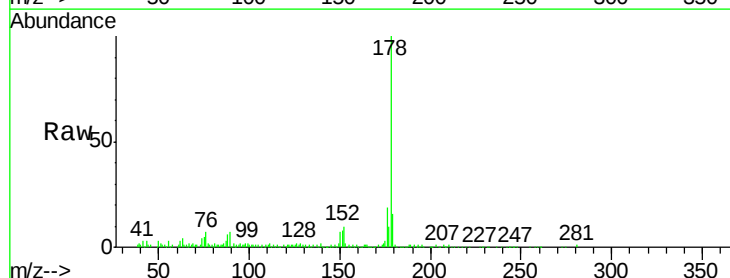
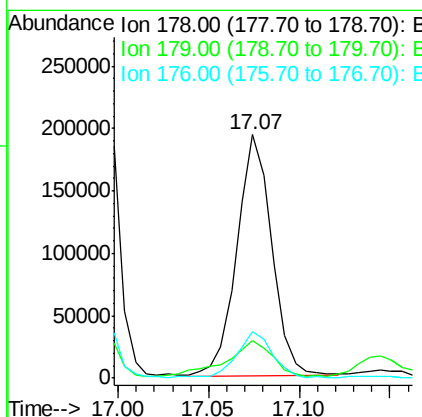
RT: 17.07 min Scan# 2395

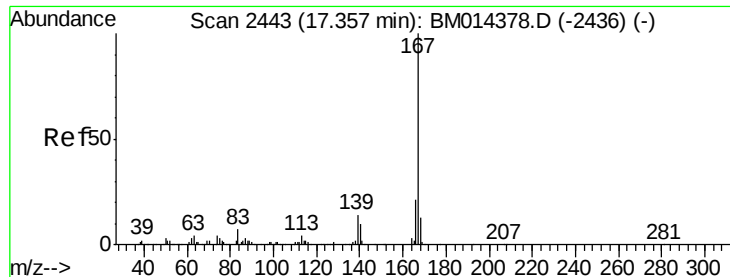
Delta R.T. -0.00 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Tgt Ion:	178	Resp:	259836
Ion Ratio	Lower	Upper	
178	100		
179	15.5	11.7	17.5
176	19.1	14.6	21.8





#72

Carbazole

Concen: 3.811 ng/ul

RT: 17.36 min Scan# 2443

Delta R.T. -0.00 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

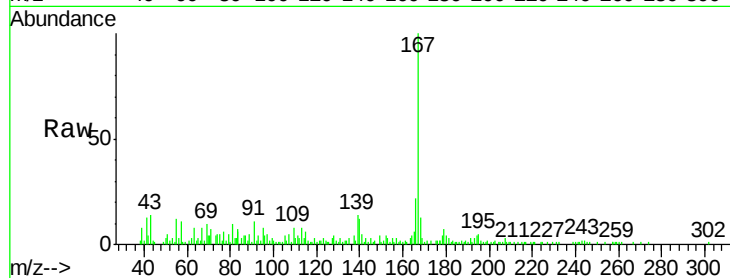
ClientSampleId :

BE5Y9

Tot Ion:	167	Resp:	93443
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.1	25.7
139	13.5	10.0	15.0

Manual Integrations
APPROVED

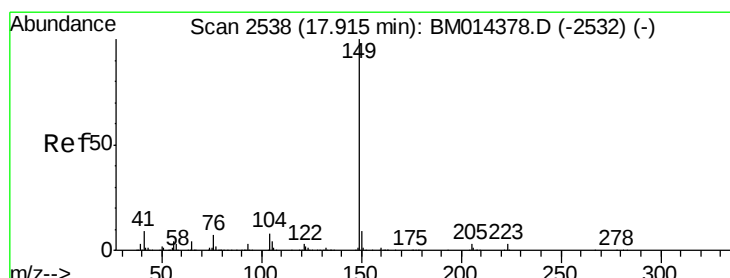
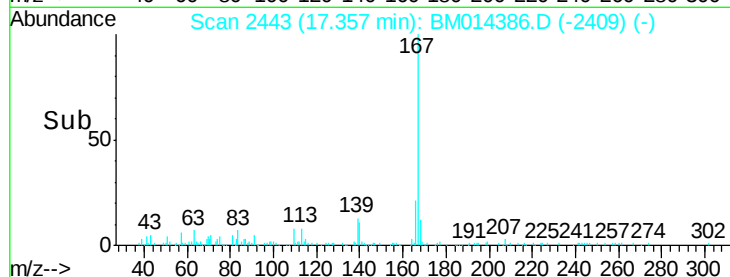
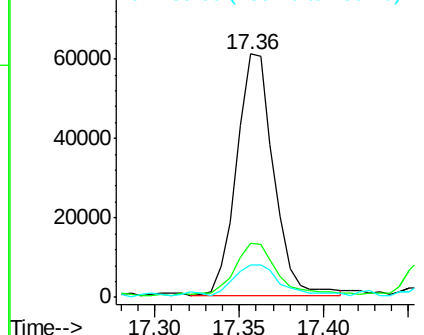
Sohil
2/28/2018 1:59:14 PM



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



#73

Di-n-butylphthalate

Concen: 1.557 ng/ul

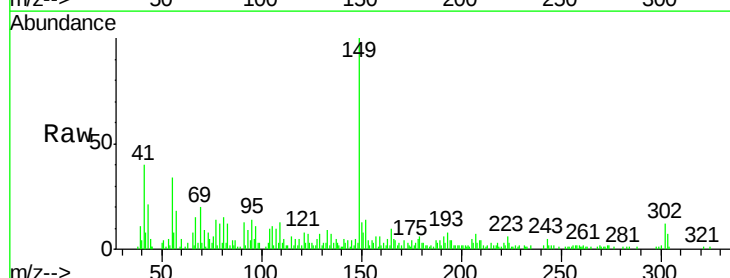
RT: 17.92 min Scan# 2539

Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

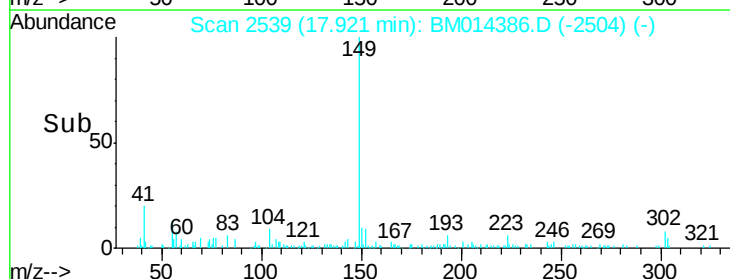
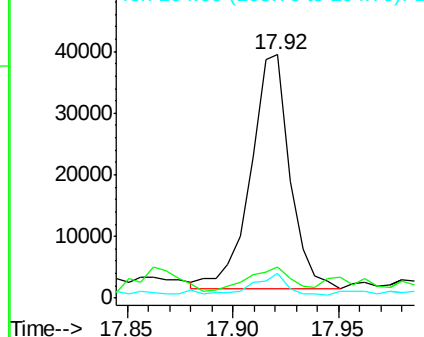
Tgt Ion:	149	Resp:	49239
Ion Ratio	Lower	Upper	
149	100		
150	12.6	7.1	10.7#
104	10.4	5.6	8.4#

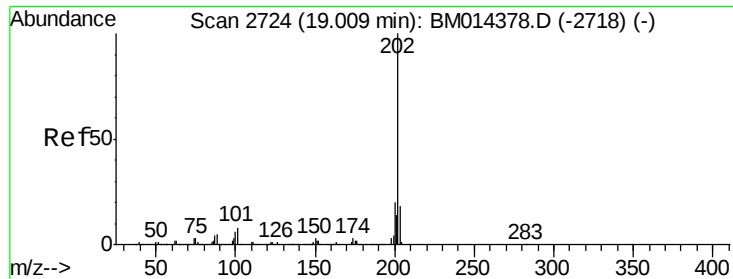


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 51.483 ng/ul

RT: 19.02 min Scan# 2725

Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

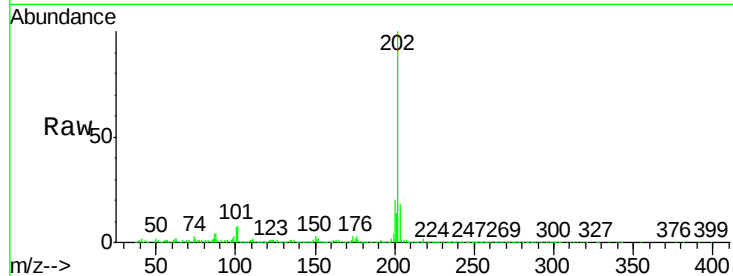
ClientSampleId :

BE5Y9

Tot Ion	Ratio	Lower	Upper
202	100		
101	8.4	4.6	7.0#
100	6.9	3.4	5.2#

Manual Integrations
APPROVED

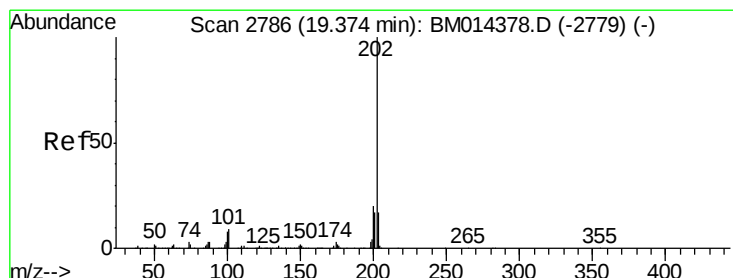
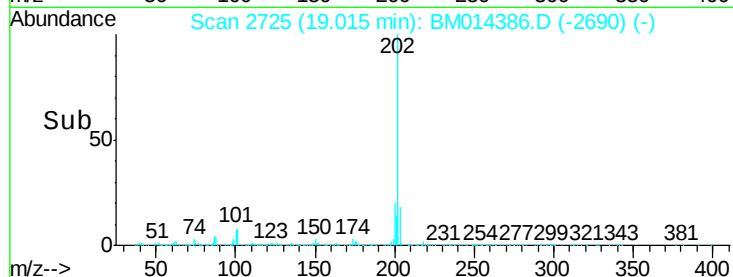
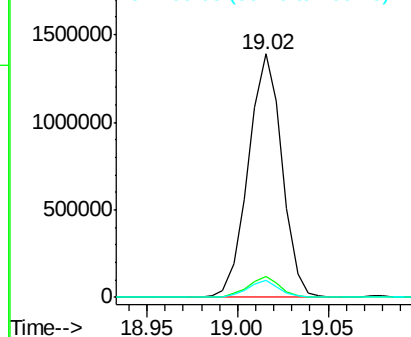
Sohil
2/28/2018 1:59:14 PM



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



#77

Pyrene

Concen: 50.897 ng/ul

RT: 19.38 min Scan# 2787

Delta R.T. 0.01 min

Lab File: BM014386.D

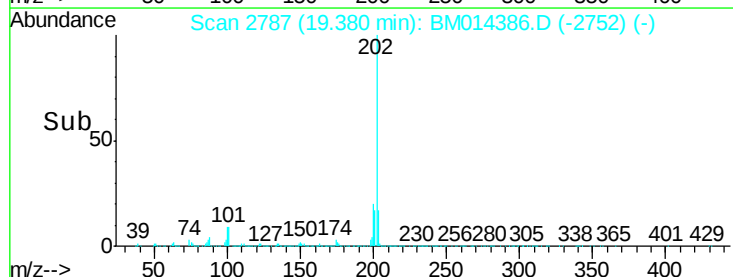
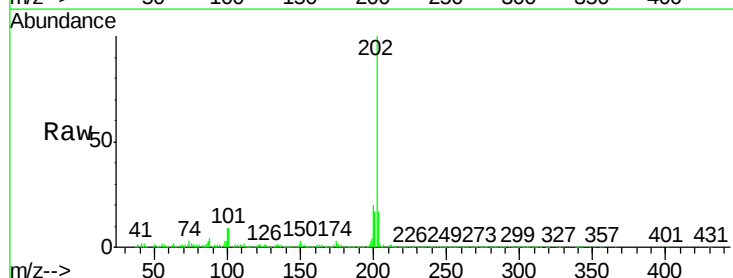
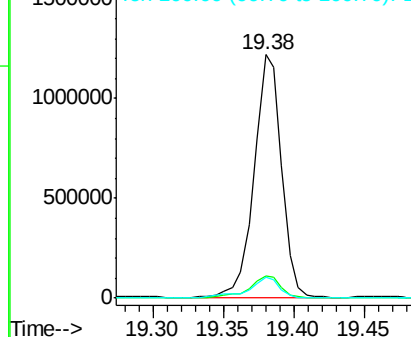
Acq: 27 Feb 2018 17:13

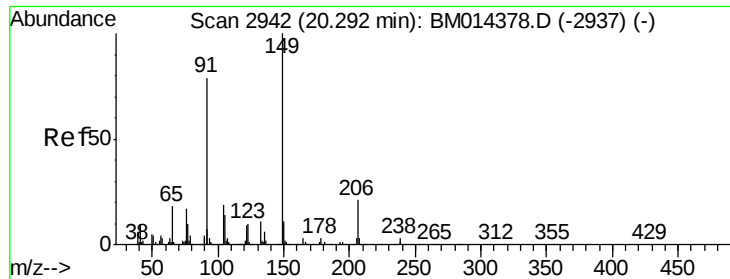
Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.3	5.1	7.7#
100	8.6	4.9	7.3#

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





#78

Butylbenzylphthalate

Concen: 4.997 ng/ul

RT: 20.29 min Scan# 2942

Delta R.T. -0.00 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

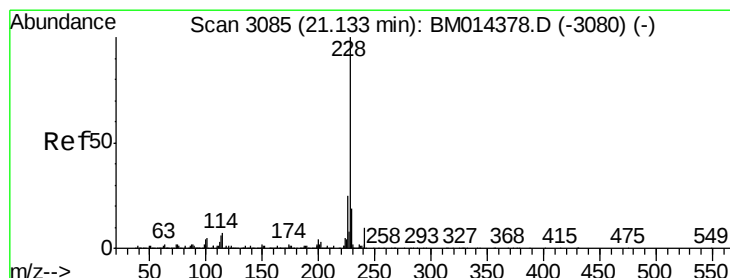
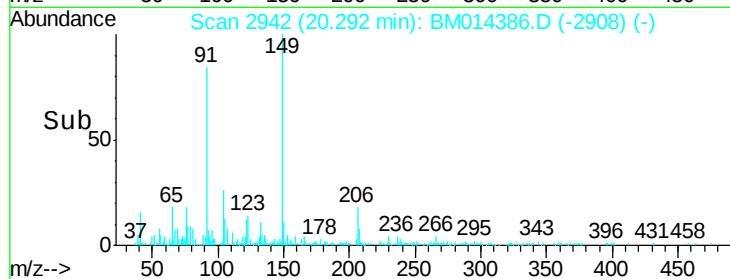
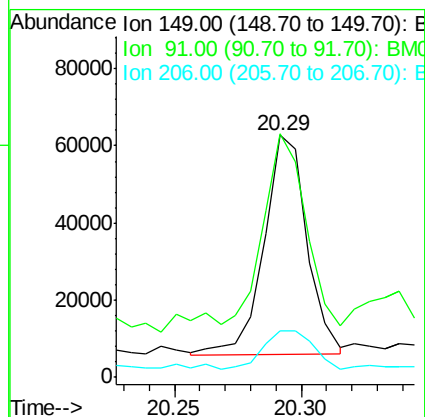
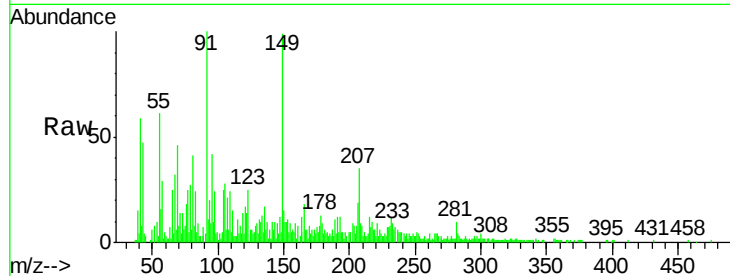
ClientSampleId :

BE5Y9

Tot Ion:	149	Resp:	67740
Ion Ratio	Lower	Upper	
149	100		
91	100.7	62.7	94.1#
206	19.3	20.8	31.2#

Manual Integrations
APPROVED

Sohil
2/28/2018 1:59:14 PM



#80

Benzo(a)anthracene

Concen: 29.855 ng/ul

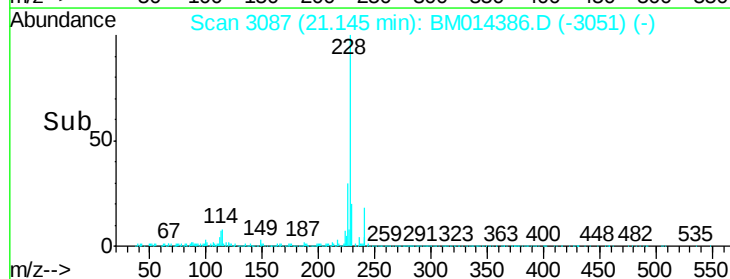
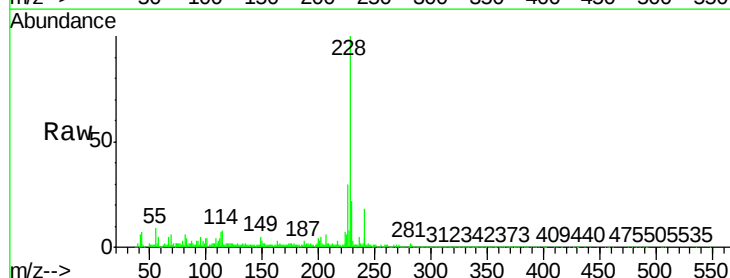
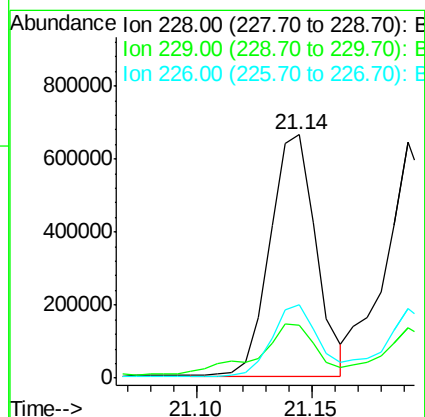
RT: 21.14 min Scan# 3087

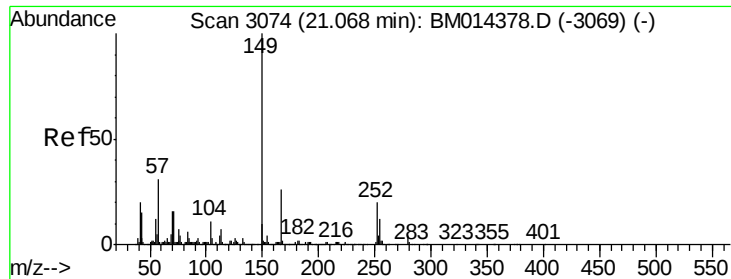
Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Tgt Ion:	228	Resp:	919244
Ion Ratio	Lower	Upper	
228	100		
229	21.7	15.4	23.0
226	30.0	21.4	32.0





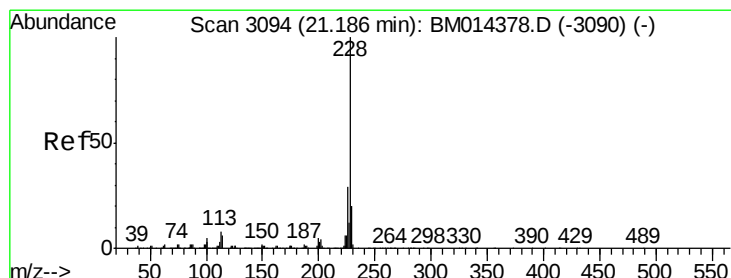
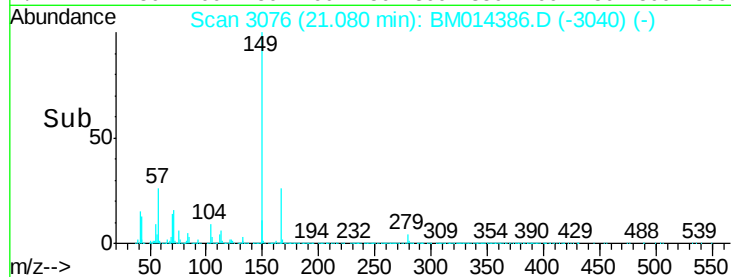
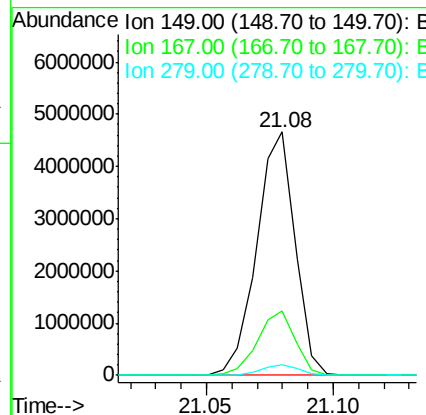
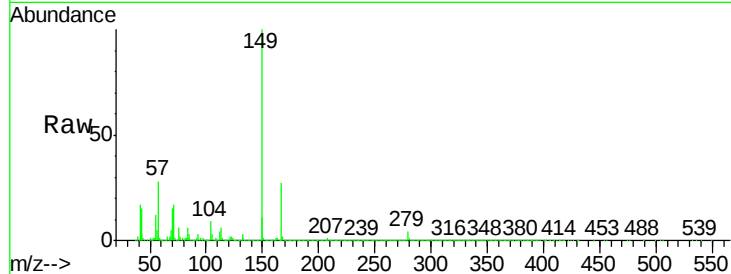
#81
 Bis(2-ethylhexyl)phthalate
 Concen: 250.764 ng/ul
 RT: 21.08 min Scan# 3076
 Delta R.T. 0.01 min
 Lab File: BM014386.D
 Acq: 27 Feb 2018 17:13

Instrument :
 BNA_M
 ClientSampleId :
 BE5Y9

Tot Ion:149 Resp: 4868751
 Ion Ratio Lower Upper
 149 100
 167 26.6 22.8 34.2
 279 4.4 4.9 7.3#

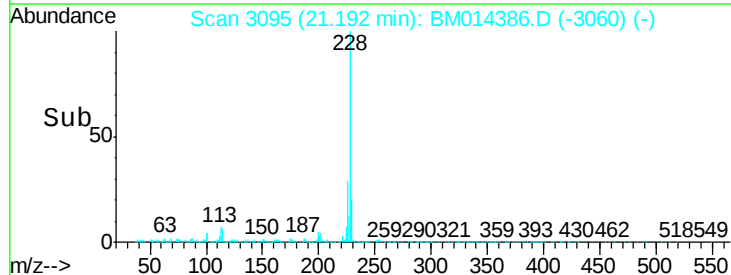
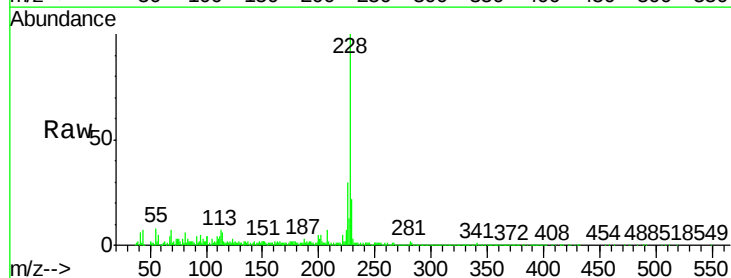
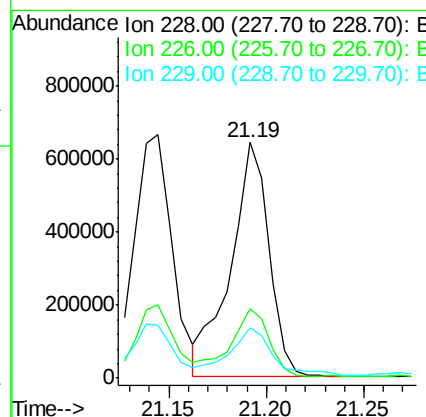
Manual Integrations
 APPROVED

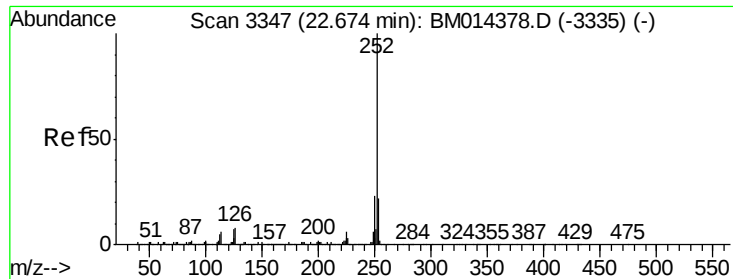
Sohil
 2/28/2018 1:59:14 PM



#82
 Chrysene
 Concen: 30.471 ng/ul
 RT: 21.19 min Scan# 3095
 Delta R.T. 0.01 min
 Lab File: BM014386.D
 Acq: 27 Feb 2018 17:13

Tgt Ion:228 Resp: 875231
 Ion Ratio Lower Upper
 228 100
 226 29.6 23.4 35.2
 229 21.5 15.5 23.3





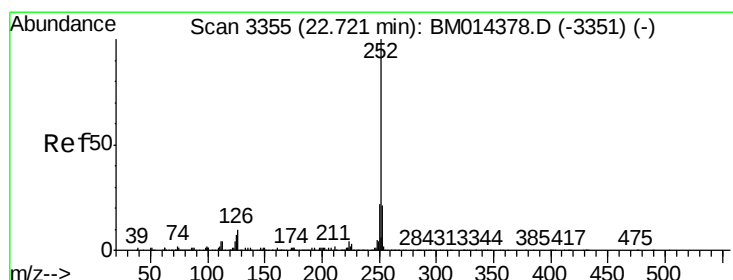
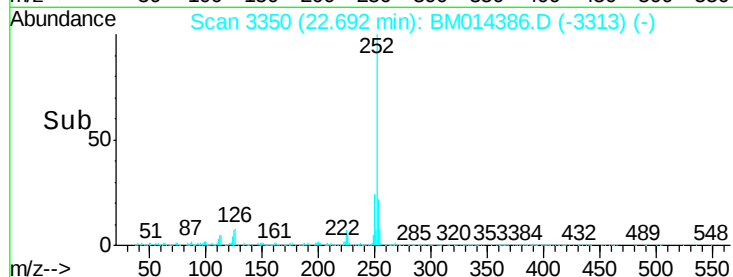
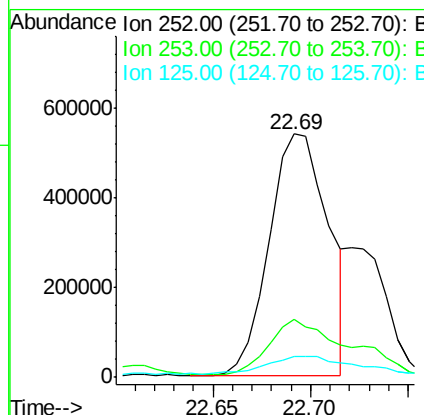
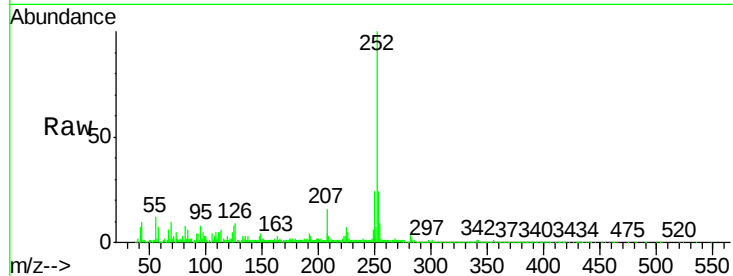
#85
Benzo(b)fluoranthene
Concen: 35.409 ng/ul
RT: 22.69 min Scan# 3350
Delta R.T. 0.02 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Instrument :
BNA_M
ClientSampled :
BE5Y9

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	8.4	3.6	5.4

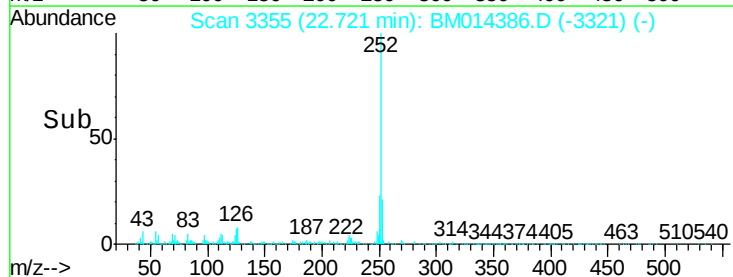
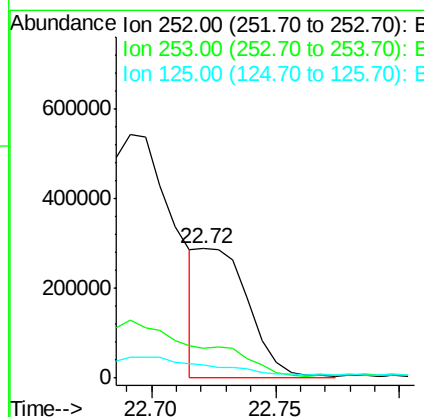
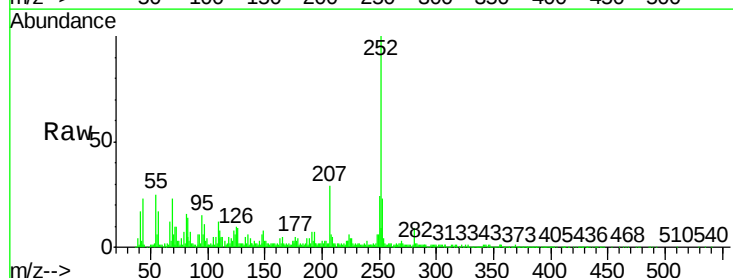
Manual Integrations
APPROVED

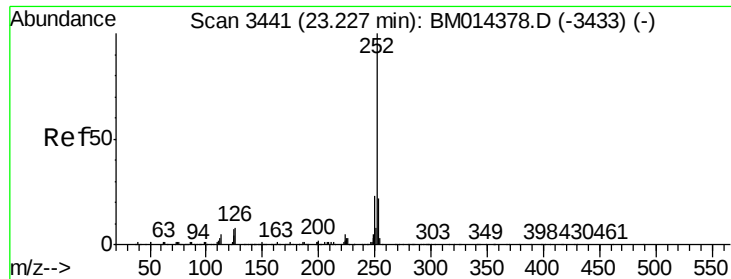
Sohil
2/28/2018 1:59:14 PM



#86
Benzo(k)fluoranthene
Concen: 13.276 ng/ul m
RT: 22.72 min Scan# 3355
Delta R.T. -0.00 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	9.8	3.4	5.2





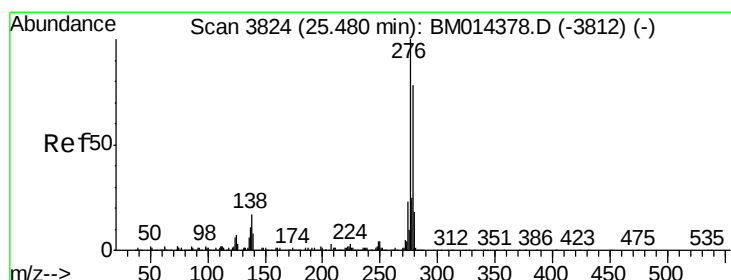
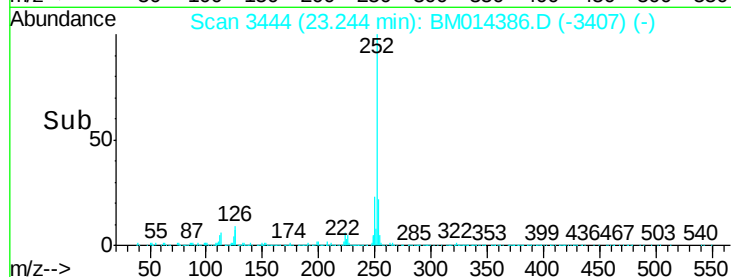
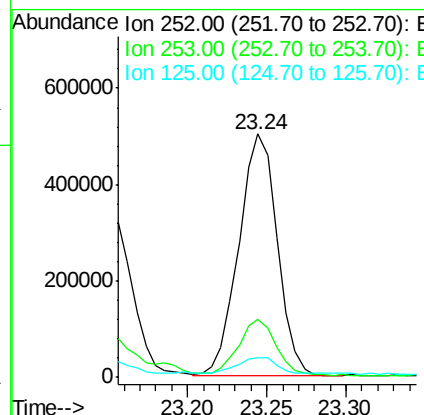
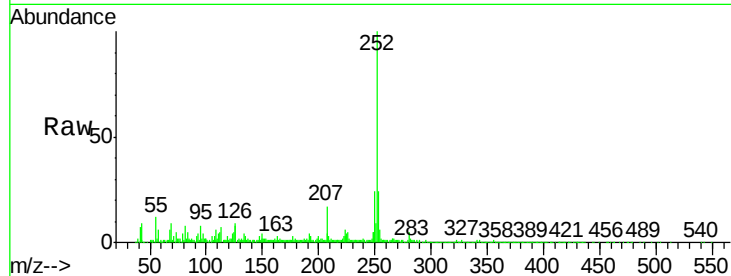
#88
Benzo(a)pyrene
Concen: 29.373 ng/ul
RT: 23.24 min Scan# 3444
Delta R.T. 0.02 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Instrument :
BNA_M
ClientSampleId :
BE5Y9

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.9	18.2	27.2
125	7.9	4.0	6.0#

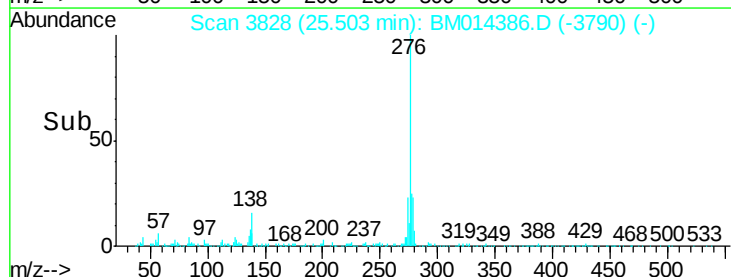
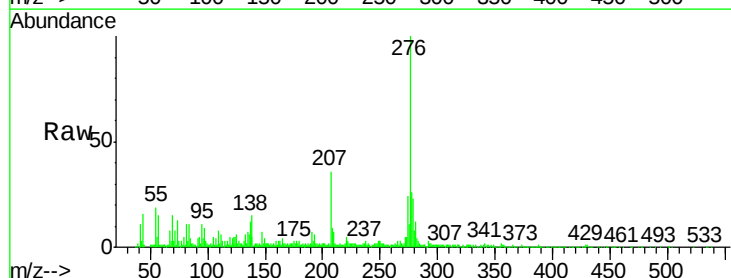
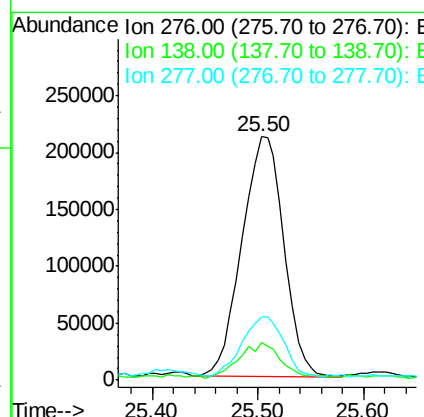
Manual Integrations
APPROVED

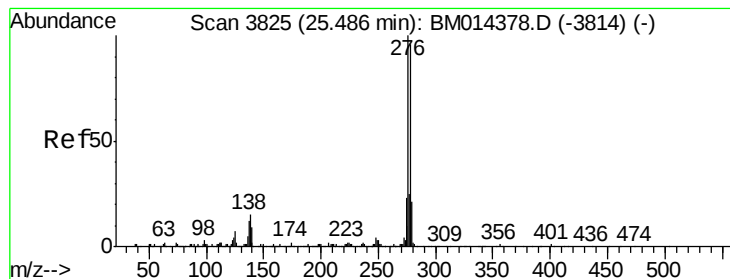
Sohil
2/28/2018 1:59:14 PM



#89
Indeno(1,2,3-cd)pyrene
Concen: 20.814 ng/ul
RT: 25.50 min Scan# 3828
Delta R.T. 0.02 min
Lab File: BM014386.D
Acq: 27 Feb 2018 17:13

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	20.2	9.3	13.9#
277	26.1	19.9	29.9





#90

Dibenzo(a,h)anthracene

Concen: 6.593 ng/ul

RT: 25.50 min Scan# 3827

Delta R.T. 0.01 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Instrument :

BNA_M

ClientSampleId :

BE5Y9

Tot Ion:278 Resp: 152673

Ion Ratio Lower Upper

278 100

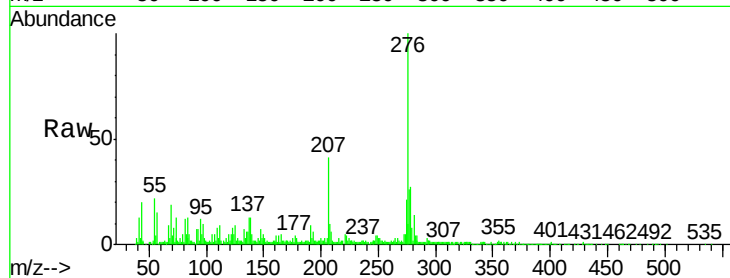
139 18.2 5.8 8.8#

279 28.2 18.6 27.8#

Manual Integrations
APPROVED

Sohil

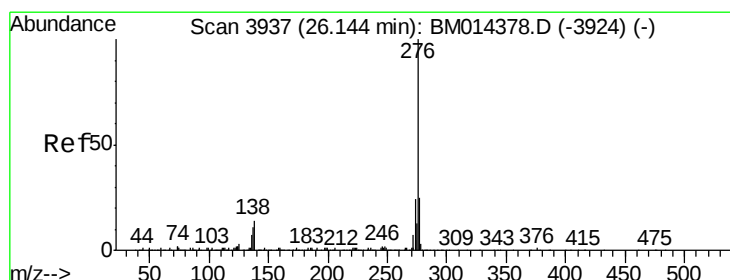
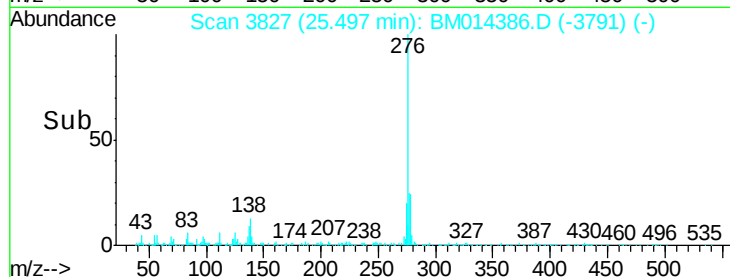
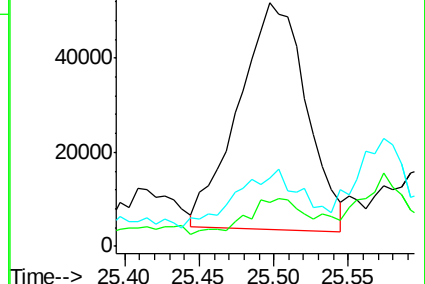
2/28/2018 1:59:14 PM



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



#91

Benzo(g,h,i)perylene

Concen: 20.586 ng/ul

RT: 26.17 min Scan# 3942

Delta R.T. 0.03 min

Lab File: BM014386.D

Acq: 27 Feb 2018 17:13

Tgt Ion:276 Resp: 464751

Ion Ratio Lower Upper

276 100

138 14.0 8.5 12.7#

277 21.6 18.6 28.0

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

