

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092217\
 Data File : BM011689.D
 Acq On : 22 Sep 2017 12:48
 Operator : SJ/JU
 Sample : I5283-12
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CB3B7

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:23:26 PM

Quant Time: Sep 25 11:09:48 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM090817MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Sep 22 23:48:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.96	152	348445	20.00	ng/ul	0.00
18) Naphthalene-d8	10.77	136	1548547	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.59	164	840396	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.33	188	1677801	20.00	ng/ul	0.00
78) Chrysene-d12	21.50	240	1260676	20.00	ng/ul	0.00
86) Perylene-d12	23.88	264	1293505m	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.39	96	31385	4.05	ng/uL	0.00
5) Phenol-d5	7.11	99	752741	22.50	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.28	67	581239	25.78	ng/ul	0.00
9) 2-Chlorophenol-d4	7.49	132	625544	24.81	ng/ul	0.00
13) 4-Methylphenol-d8	8.66	113	586038	22.44	ng/ul	0.00
19) Nitrobenzene-d5	9.12	128	319256	27.16	ng/ul	0.00
22) 2-Nitrophenol-d4	9.85	143	341914	27.98	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.38	165	581879	23.65	ng/ul	0.00
29) 4-Chloroaniline-d4	10.90	131	286052	10.54	ng/ul	0.00
44) Dimethylphthalate-d6	13.99	166	1865690	26.26	ng/ul	0.00
47) Acenaphthylene-d8	14.29	160	2362421	27.49	ng/ul	0.00
52) 4-Nitrophenol-d4	14.77	143	123923	9.28	ng/ul	0.00
58) Fluorene-d10	15.58	176	1623414	26.38	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.70	200	97081	9.94	ng/ul	0.00
71) Anthracene-d10	17.43	188	2352863	28.48	ng/ul	0.00
79) Pyrene-d10	19.72	212	2189251	37.09	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.73	264	1695874m	27.51	ng/ul	0.01

Target Compounds

					Ovalue	
4) Benzaldehyde	7.10	77	27807	1.454	ng/ul#	30
6) Phenol	7.13	94	49068	1.477	ng/ul#	81
14) Acetophenone	8.79	105	56856	1.424	ng/ul#	81
28) Naphthalene	10.82	128	773755	9.636	ng/ul	97
34) 2-Methylnaphthalene	12.42	142	617271	10.351	ng/ul	99
35) 1-Methylnaphthalene	12.64	142	442973	7.799	ng/ul	96
41) 1,1'-Biphenyl	13.43	154	96265	1.377	ng/ul#	95
45) Dimethylphthalate	14.04	163	527787	7.759	ng/ul#	99
48) Acenaphthylene	14.32	152	231792	2.680	ng/ul#	93
50) Acenaphthene	14.66	153	681141	11.656	ng/ul	98
54) Dibenzofuran	14.99	168	307006	3.756	ng/ul	95
59) Fluorene	15.64	166	568234	8.295	ng/ul	97
70) Phenanthrene	17.38	178	11309585	120.932	ng/ul	96
72) Anthracene	17.47	178	1838549	19.159	ng/ul	98
75) Carbazole	17.73	167	340879	4.164	ng/ul#	91
77) Fluoranthene	19.39	202	10660800	110.831	ng/ul#	92
80) Pyrene	19.76	202	13548517	184.200	ng/ul#	83
83) Benzo(a)anthracene	21.49	228	5446876	78.470	ng/ul	95
85) Chrysene	21.54	228	6474431	102.886	ng/ul	96
88) Benzo(b)fluoranthene	23.17	252	7288672m	93.665	ng/ul	
89) Benzo(k)fluoranthene	23.20	252	2287689m	30.611	ng/ul	
91) Benzo(a)pyrene	23.79	252	6101629m	83.072	ng/ul	
92) Indeno(1,2,3-cd)pyrene	26.33	276	4766056m	58.988	ng/ul	

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092217\
Data File : BM011689.D
Acq On : 22 Sep 2017 12:48
Operator : SJ/JU
Sample : I5283-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CB3B7

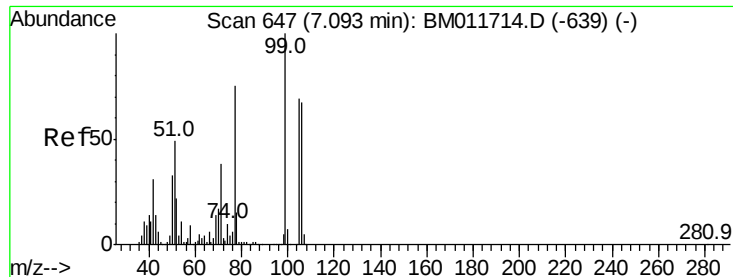
Manual Integrations
APPROVED

Sohil
9/25/2017 6:23:26 PM

Quant Time: Sep 25 11:09:48 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM090817MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Sep 22 23:48:55 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	26.33	278	1476350m	21.549	ng/ul	
94) Benzo(g,h,i)perylene	27.09	276	5738064m	87.694	ng/ul	

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



#4

Benzaldehyde

Concen: 1.454 ng/ul

RT: 7.10 min Scan# 649

Delta R.T. 0.01 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

ClientSampleId :

CB3B7

Tot Ion: 77 Resp: 27807

Ion Ratio Lower Upper

77 100

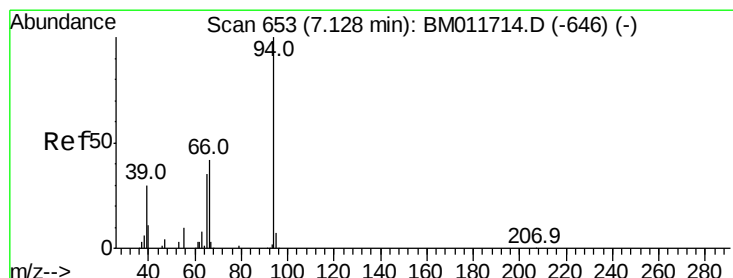
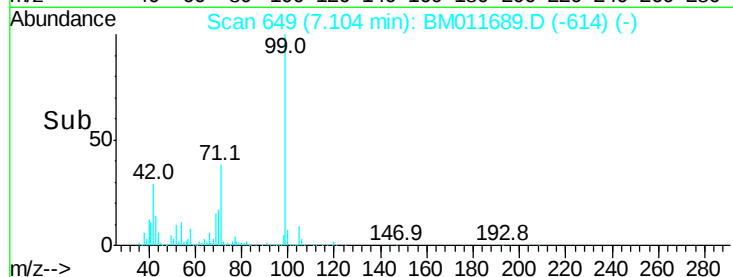
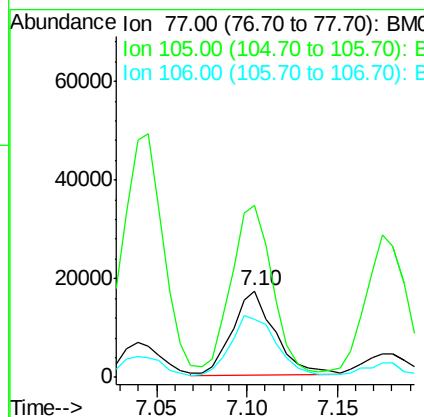
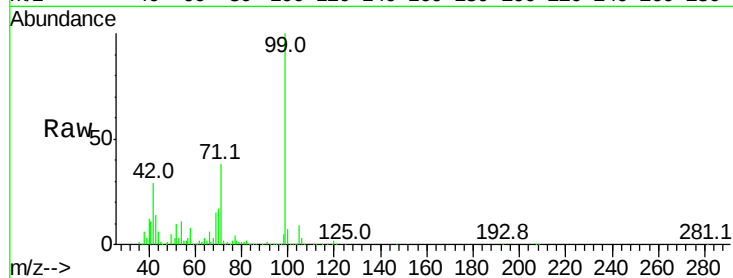
105 197.8 71.0 106.6#

106 66.4 69.5 104.3#

Manual Integrations
APPROVED

Sohil

9/25/2017 6:23:26 PM



#6

Phenol

Concen: 1.477 ng/ul

RT: 7.13 min Scan# 654

Delta R.T. -0.01 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

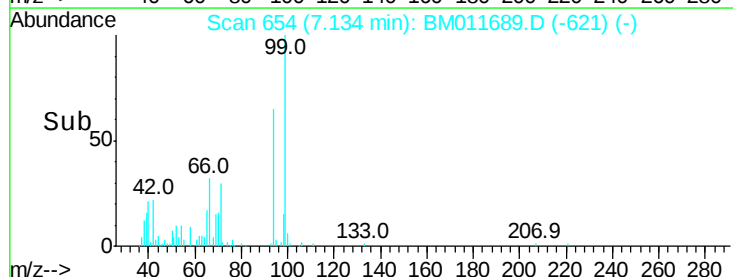
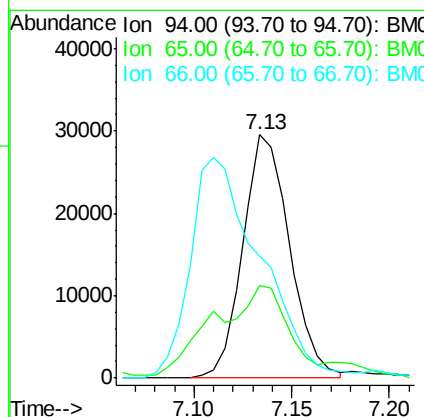
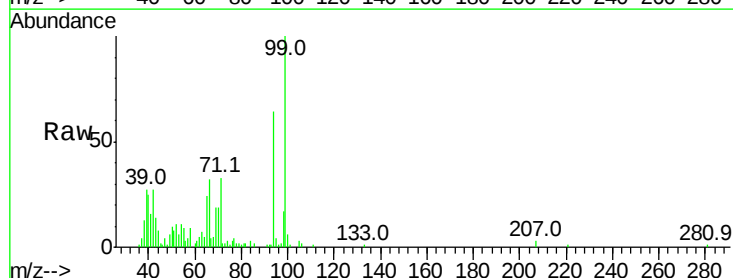
Tgt Ion: 94 Resp: 49068

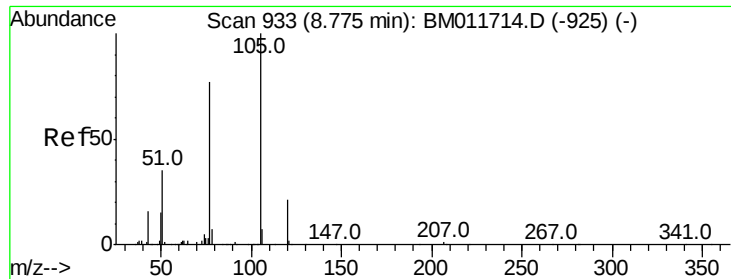
Ion Ratio Lower Upper

94 100

65 38.1 23.0 34.6#

66 50.1 30.4 45.6#





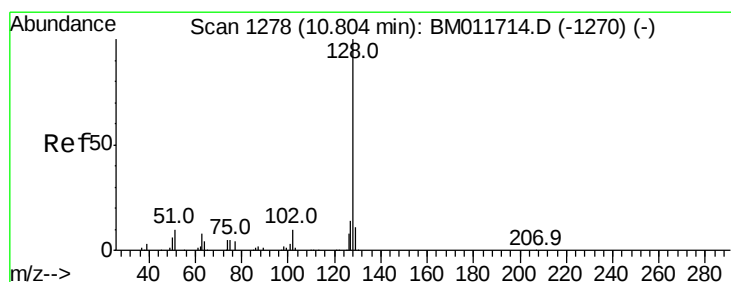
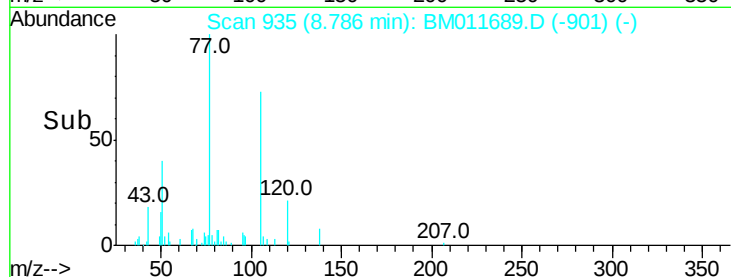
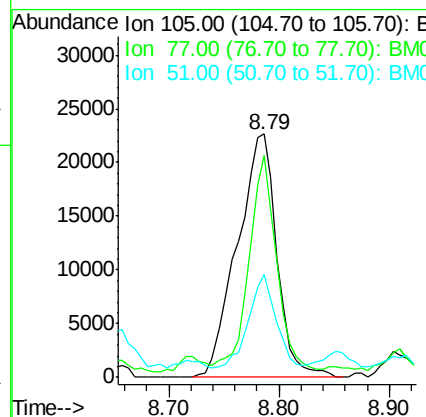
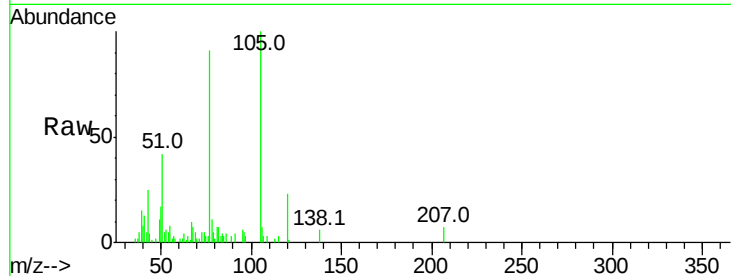
#14
Acetophenone
Concen: 1.424 ng/ul
RT: 8.79 min Scan# 935
Delta R.T. -0.00 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Instrument :
BNA_M
ClientSampleId :
CB3B7

Tot Ion	Ratio	Resp Lower	Upper
105	100		
77	91.1	63.2	94.8
51	42.3	19.8	29.8

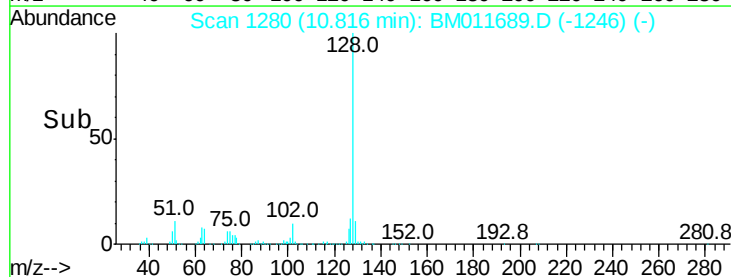
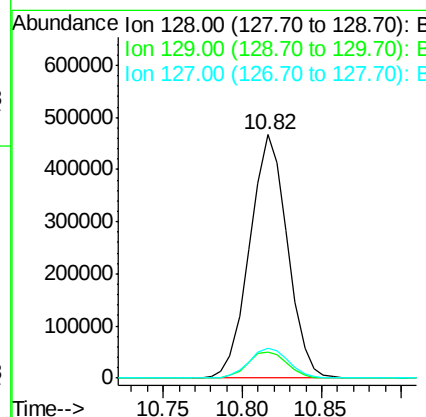
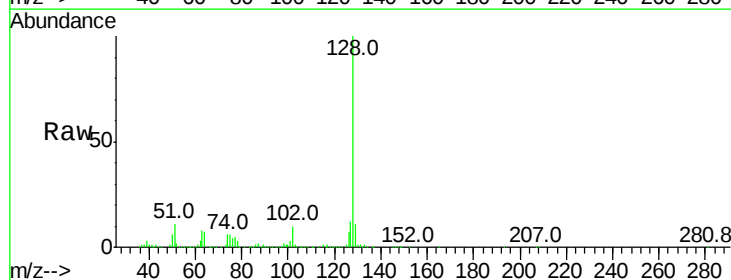
Manual Integrations
APPROVED

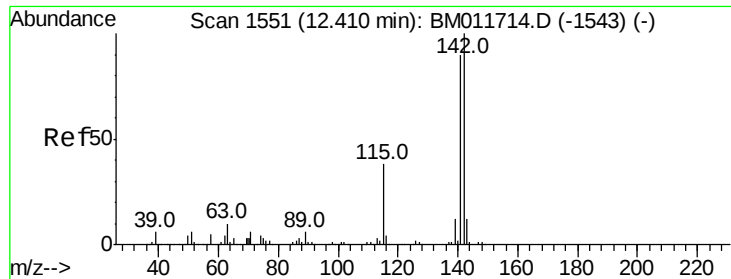
Sohil
9/25/2017 6:23:26 PM



#28
Naphthalene
Concen: 9.636 ng/ul
RT: 10.82 min Scan# 1280
Delta R.T. -0.00 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.9	8.3	12.5
127	12.0	10.8	16.2





#34

2-Methylnaphthalene

Concen: 10.351 ng/ul

RT: 12.42 min Scan# 1553

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

ClientSampled :

CB3B7

Tot Ion:142 Resp: 617271

Ion Ratio Lower Upper

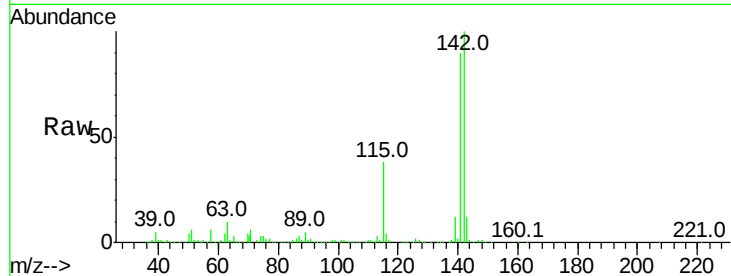
142 100

141 89.8 71.4 107.2

Manual Integrations
APPROVED

Sohil

9/25/2017 6:23:26 PM



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.42

400000

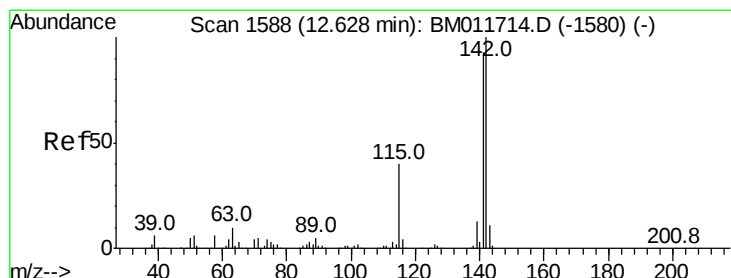
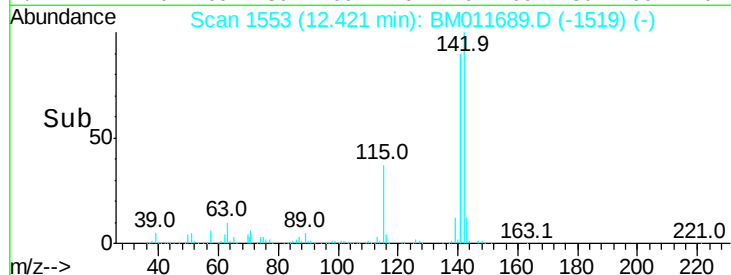
300000

200000

100000

0

Time-->



#35

1-Methylnaphthalene

Concen: 7.799 ng/ul

RT: 12.64 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

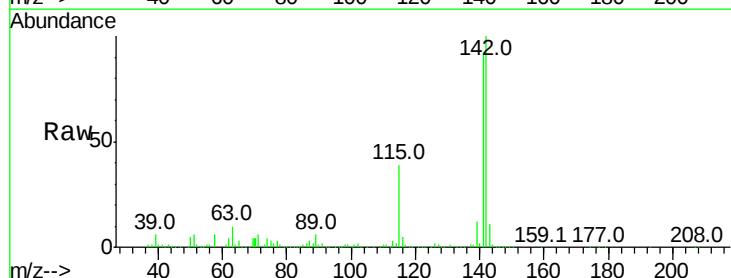
Tgt Ion:142 Resp: 442973

Ion Ratio Lower Upper

142 100

141 91.8 76.6 115.0

116 4.7 3.6 5.4



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

12.64

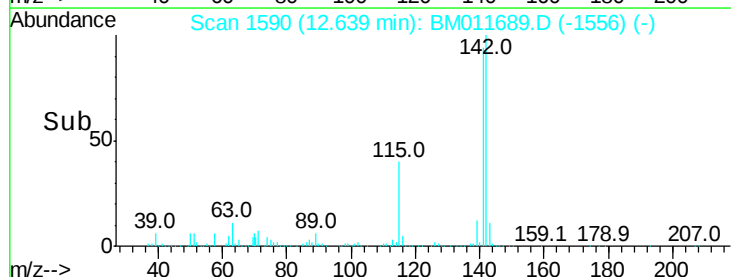
300000

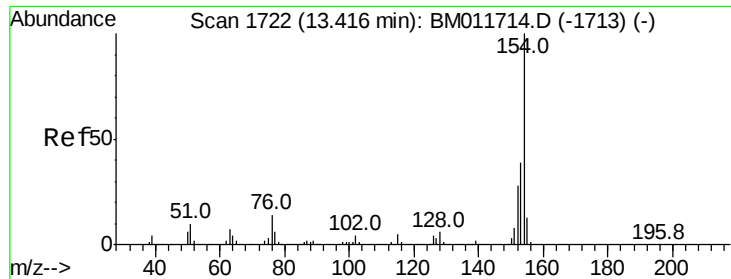
200000

100000

0

Time-->





#41

1,1'-Biphenyl

Concen: 1.377 ng/ul

RT: 13.43 min Scan# 1724

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

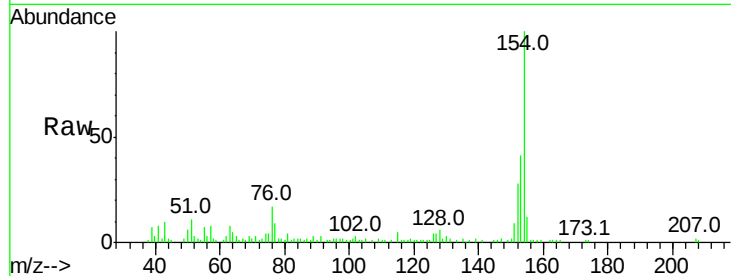
ClientSampleId :

CB3B7

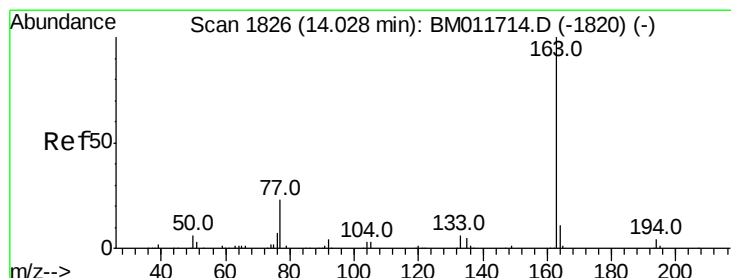
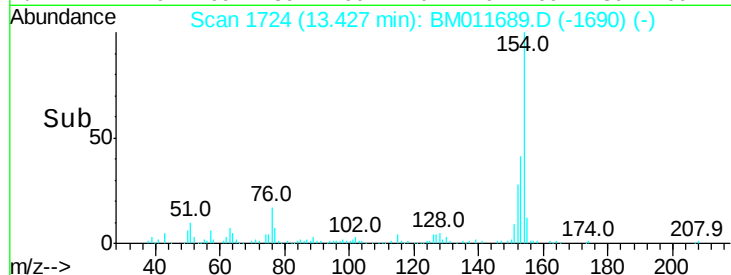
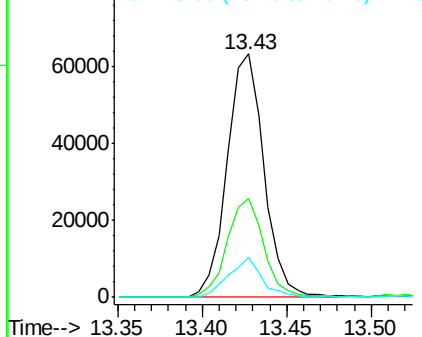
Tot Ion:	154	Resp:	96265
Ion Ratio	Lower	Upper	
154	100		
153	40.9	34.0	51.0
76	16.5	8.4	12.6#

Manual Integrations
APPROVED

Sohil
9/25/2017 6:23:26 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BM



#45

Dimethylphthalate

Concen: 7.759 ng/ul

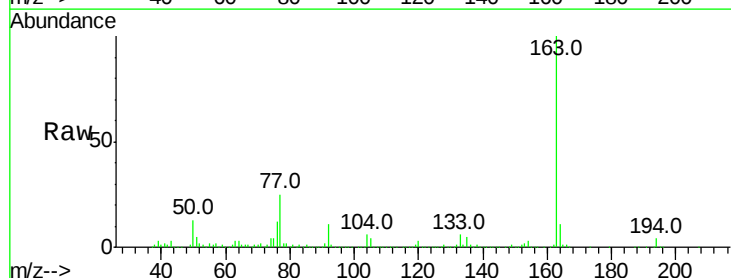
RT: 14.04 min Scan# 1828

Delta R.T. -0.00 min

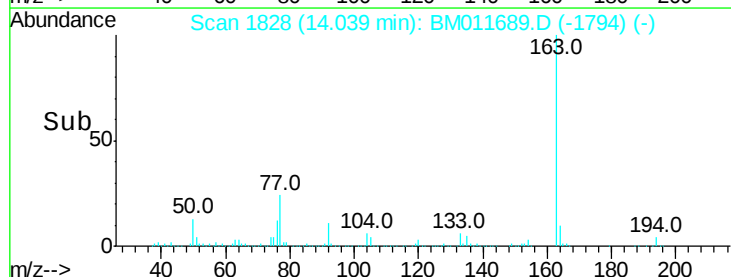
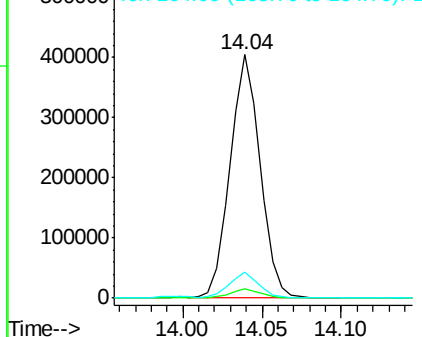
Lab File: BM011689.D

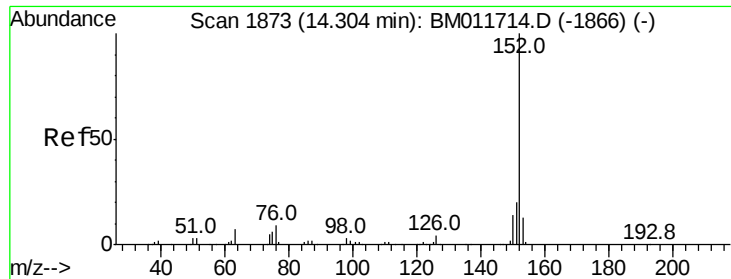
Acq: 22 Sep 2017 12:48

Tgt Ion:	163	Resp:	527787
Ion Ratio	Lower	Upper	
163	100		
194	3.7	4.0	6.0#
164	10.5	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 2.680 ng/ul

RT: 14.32 min Scan# 1875

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

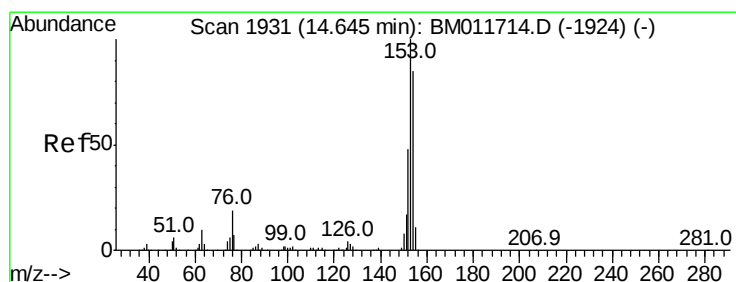
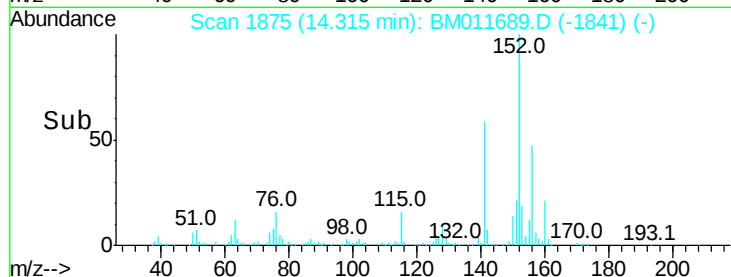
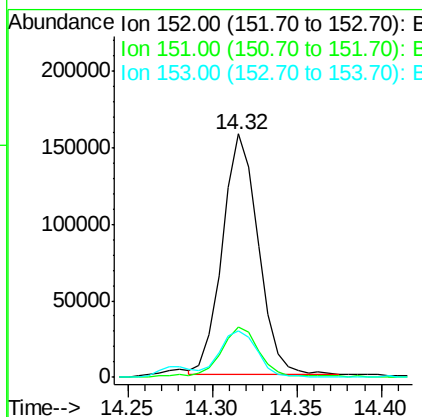
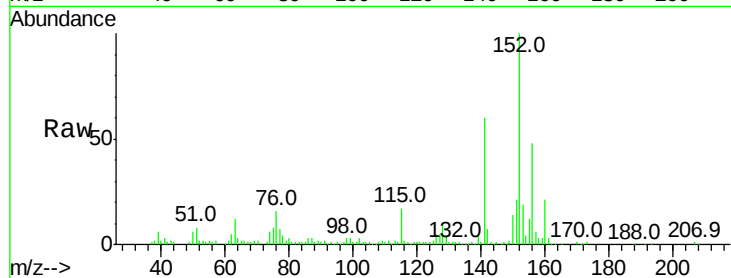
ClientSampleId :

CB3B7

Tot Ion:	152	Resp:	231792
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.1	24.1
153	19.2	10.8	16.2#

Manual Integrations
APPROVED

Sohil
9/25/2017 6:23:26 PM



#50

Acenaphthene

Concen: 11.656 ng/ul

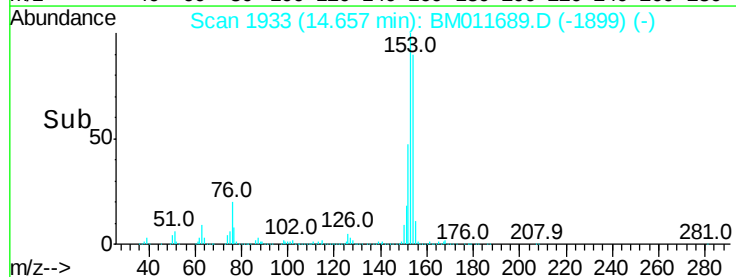
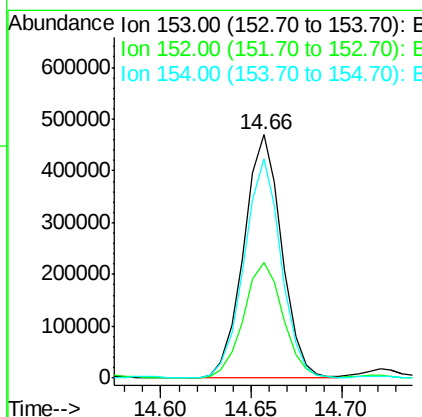
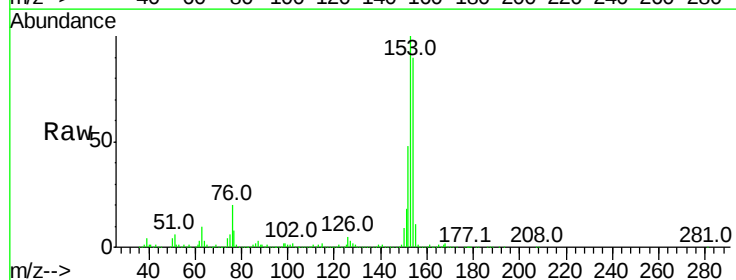
RT: 14.66 min Scan# 1933

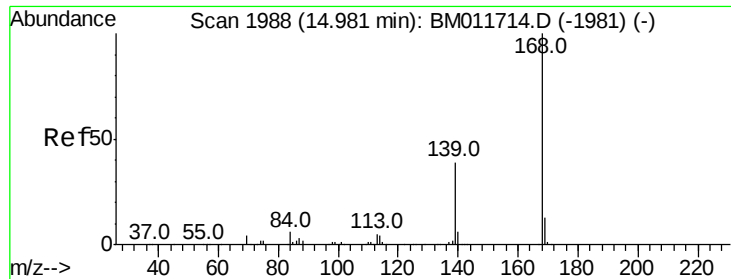
Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Tgt Ion:	153	Resp:	681141
Ion Ratio	Lower	Upper	
153	100		
152	47.7	37.9	56.9
154	90.3	69.8	104.6





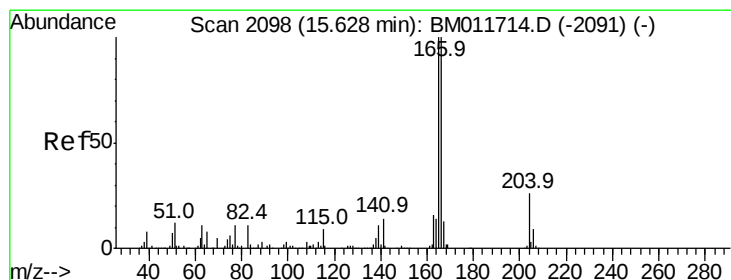
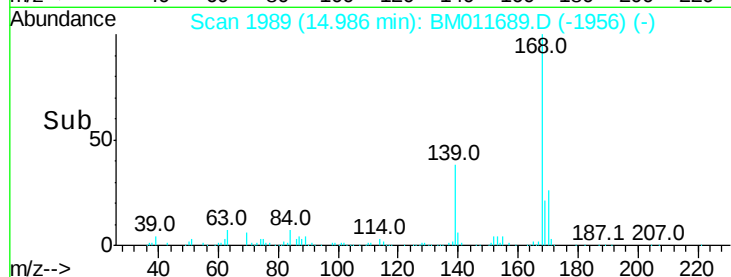
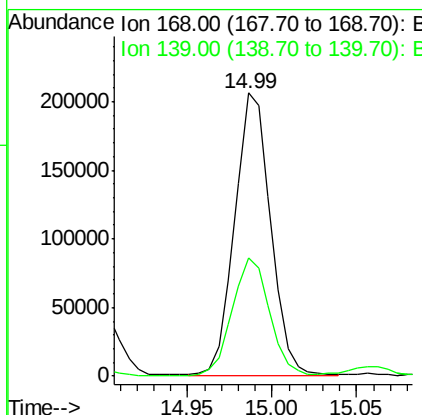
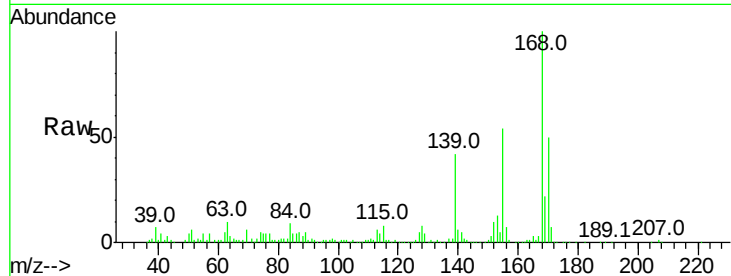
#54
Dibenzenofuran
Concen: 3.756 ng/ul
RT: 14.99 min Scan# 1989
Delta R.T. -0.01 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Instrument :
BNA_M
ClientSampleId :
CB3B7

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.8	31.0	46.4

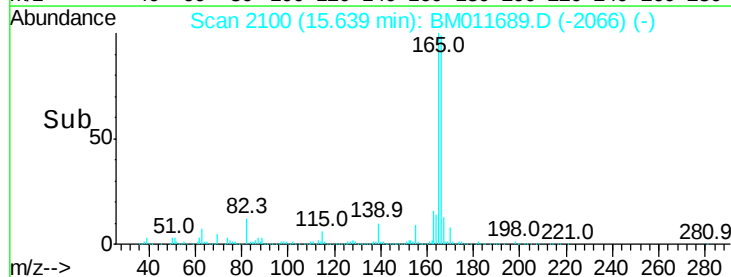
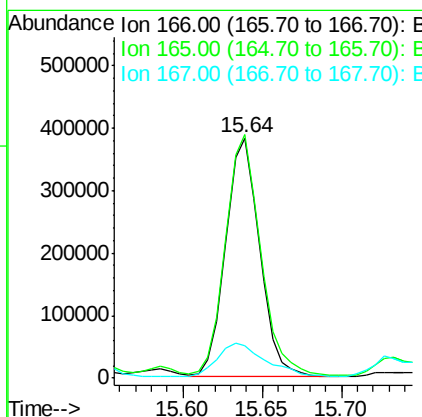
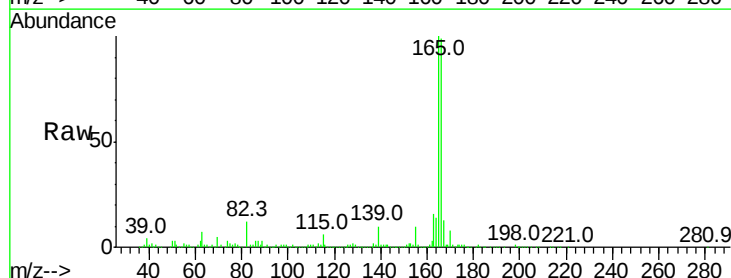
Manual Integrations
APPROVED

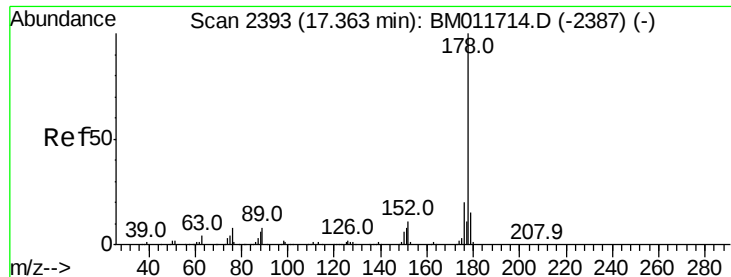
Sohil
9/25/2017 6:23:26 PM



#59
Fluorene
Concen: 8.295 ng/ul
RT: 15.64 min Scan# 2100
Delta R.T. -0.00 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	78.4	117.6
167	13.6	11.1	16.7





#70

Phenanthrene

Concen: 120.932 ng/ul

RT: 17.38 min Scan# 2396

Delta R.T. 0.01 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

ClientSampleId :

CB3B7

Tot Ion:178 Resp:11309585

Ion Ratio Lower Upper

178 100

179 16.8 12.3 18.5

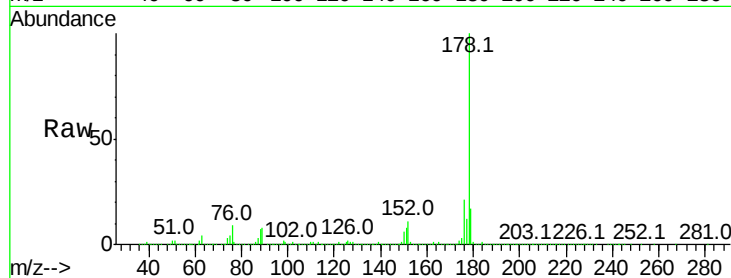
176 21.1 15.4 23.0

Manual Integrations

APPROVED

Sohil

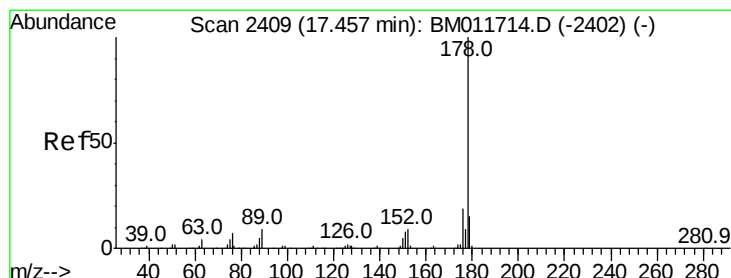
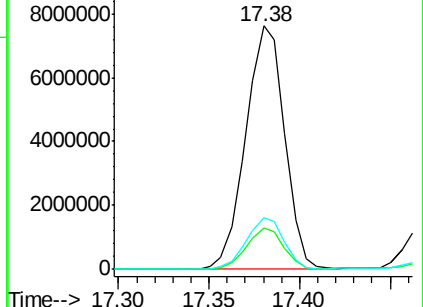
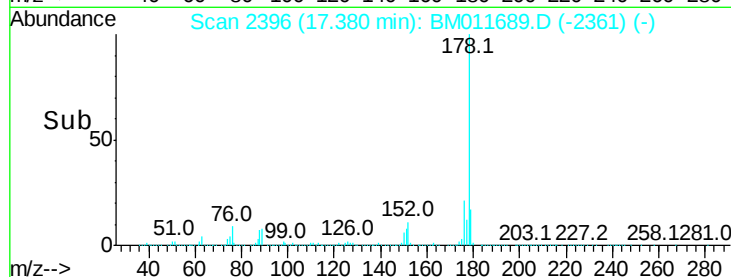
9/25/2017 6:23:26 PM



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



#72

Anthracene

Concen: 19.159 ng/ul

RT: 17.47 min Scan# 2411

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

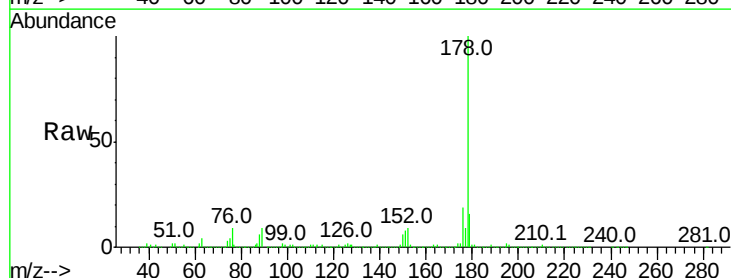
Tgt Ion:178 Resp: 1838549

Ion Ratio Lower Upper

178 100

179 15.6 13.4 20.2

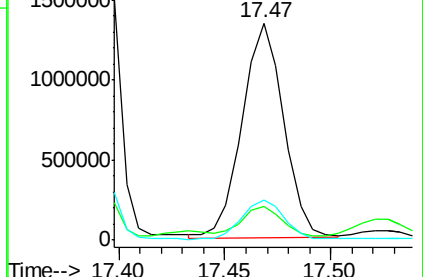
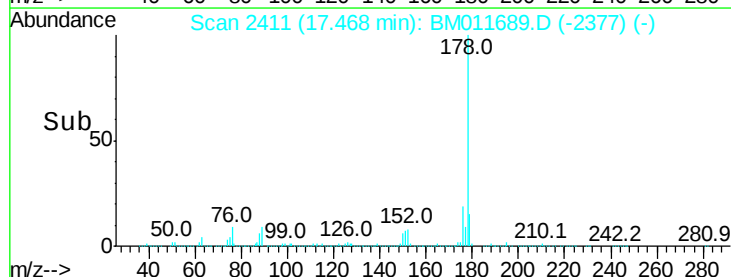
176 18.6 15.4 23.0

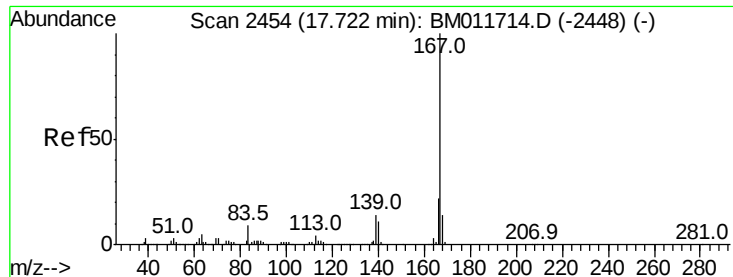


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 4.164 ng/ul

RT: 17.73 min Scan# 2456

Delta R.T. -0.00 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

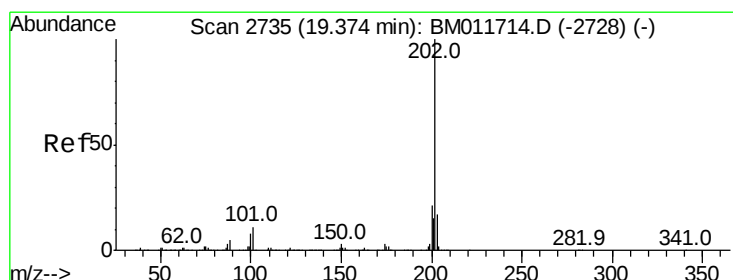
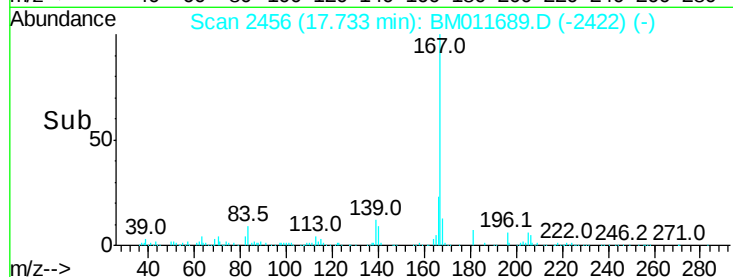
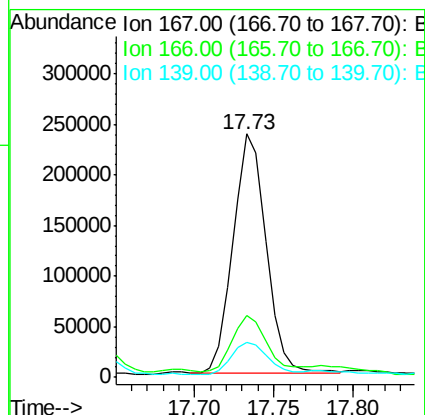
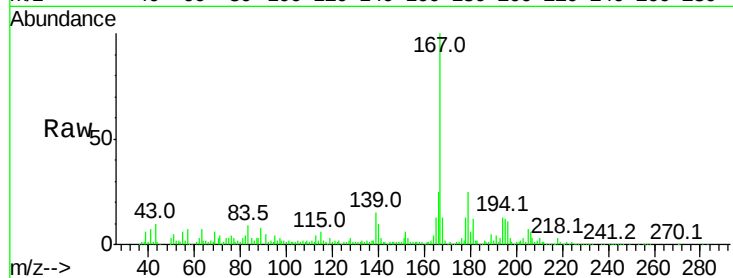
ClientSampleId :

CB3B7

Tot Ion:	167	Resp:	340879
Ion Ratio	Lower	Upper	
167	100		
166	25.3	17.0	25.4
139	14.6	9.1	13.7#

Manual Integrations
APPROVED

Sohil
9/25/2017 6:23:26 PM



#77

Fluoranthene

Concen: 110.831 ng/ul

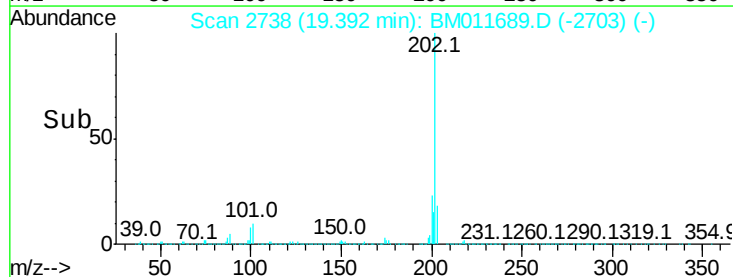
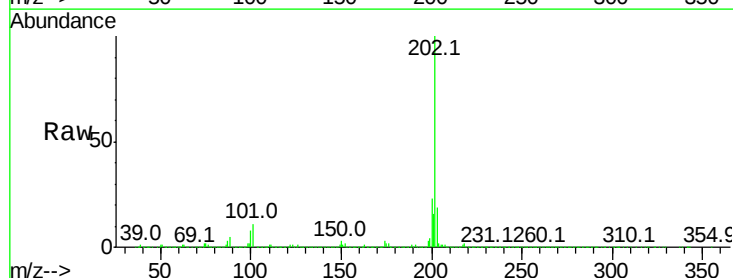
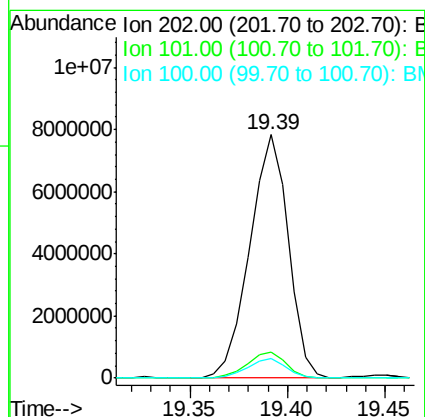
RT: 19.39 min Scan# 2738

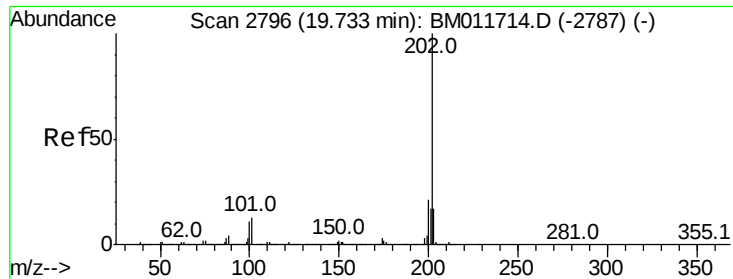
Delta R.T. 0.01 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Tgt Ion:	202	Resp:	10660800
Ion Ratio	Lower	Upper	
202	100		
101	10.6	6.1	9.1#
100	8.0	4.6	7.0#





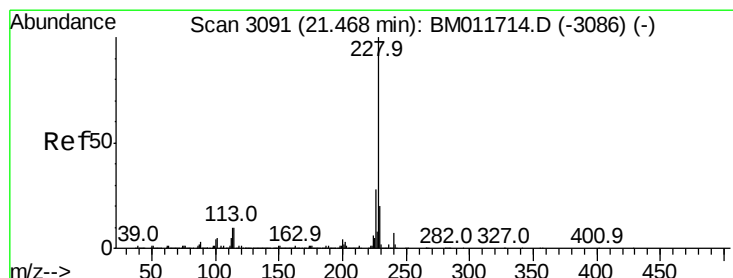
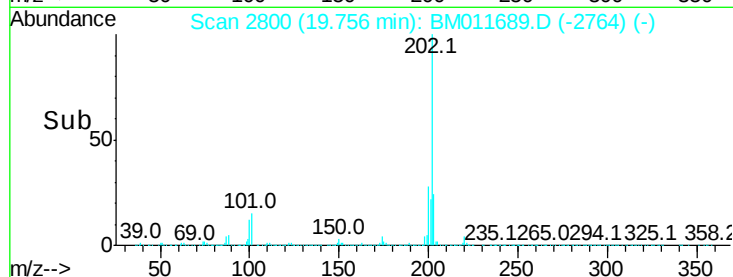
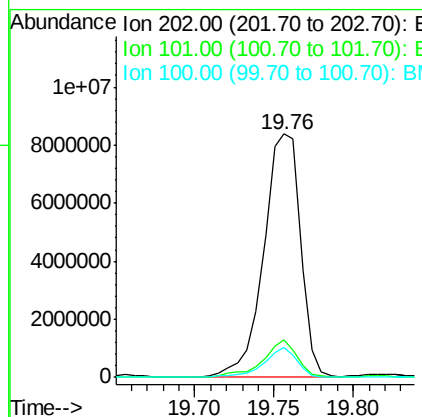
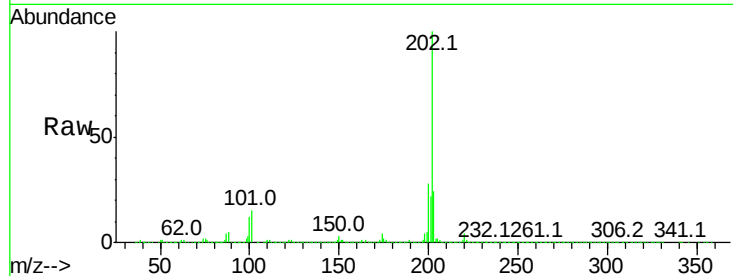
#80
Pvrene
Concen: 184.200 ng/ul
RT: 19.76 min Scan# 2800
Delta R.T. 0.01 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Instrument :
BNA_M
ClientSampled :
CB3B7

Tot Ion:202 Resp:13548517
Ion Ratio Lower Upper
202 100
101 15.2 6.9 10.3#
100 12.0 5.6 8.4#

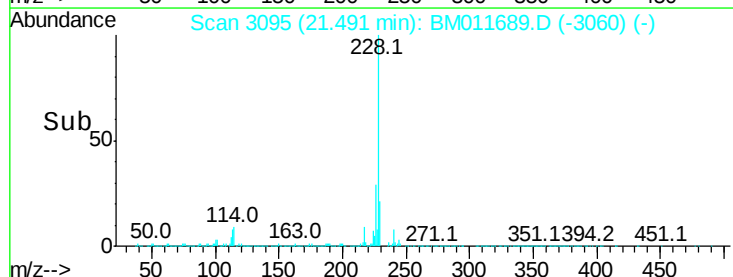
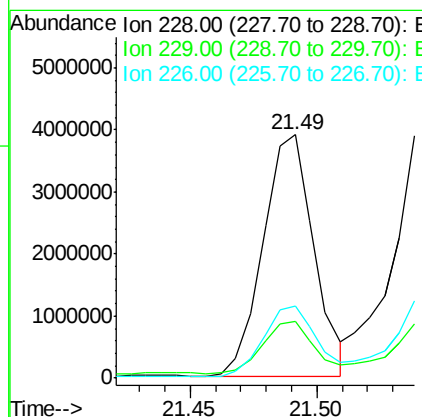
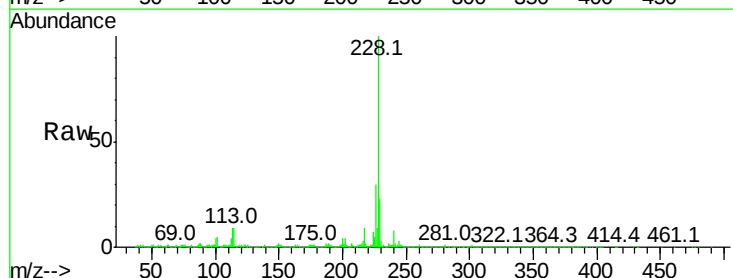
Manual Integrations
APPROVED

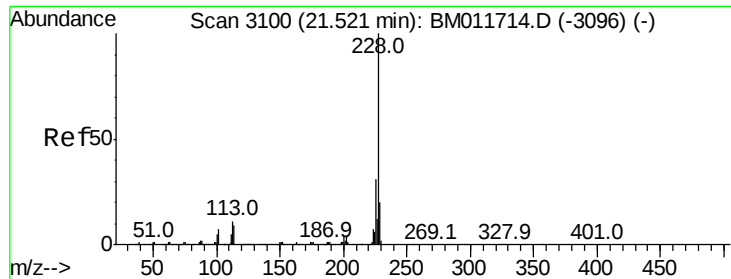
Sohil
9/25/2017 6:23:26 PM



#83
Benzo(a)anthracene
Concen: 78.470 ng/ul
RT: 21.49 min Scan# 3095
Delta R.T. 0.01 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Tgt Ion:228 Resp: 5446876
Ion Ratio Lower Upper
228 100
229 23.1 16.0 24.0
226 29.6 21.8 32.8





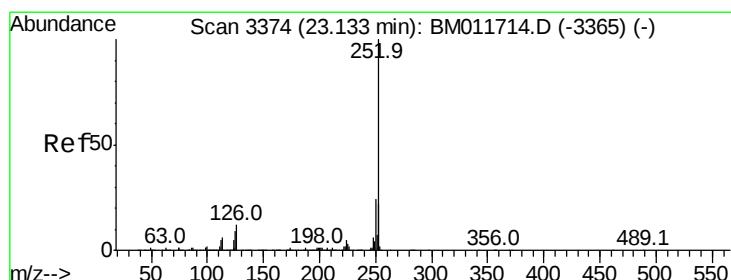
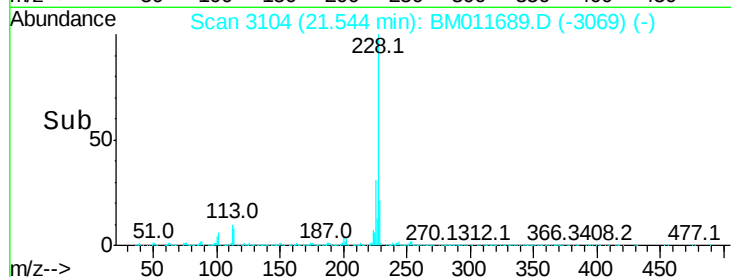
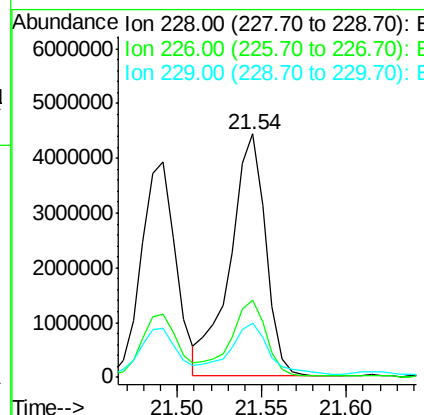
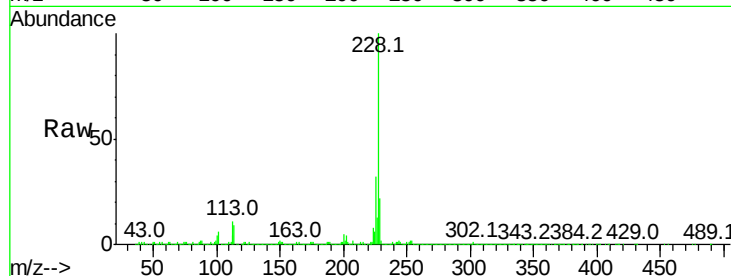
#85
Chrysene
Concen: 102.886 ng/ul
RT: 21.54 min Scan# 3104
Delta R.T. 0.01 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Instrument :
BNA_M
ClientSampleId :
CB3B7

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.1	36.1
229	22.4	16.0	24.0

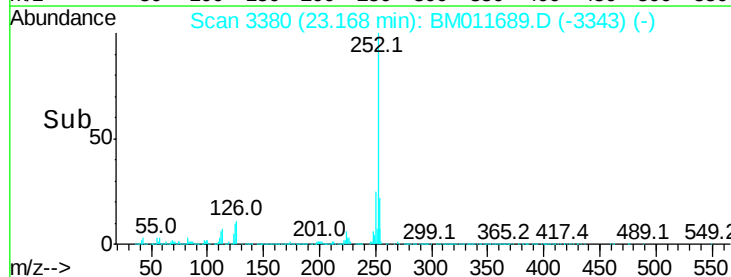
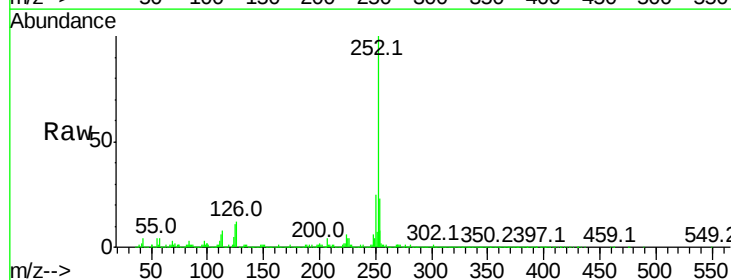
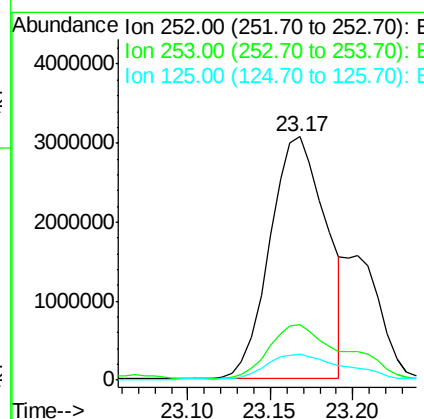
Manual Integrations
APPROVED

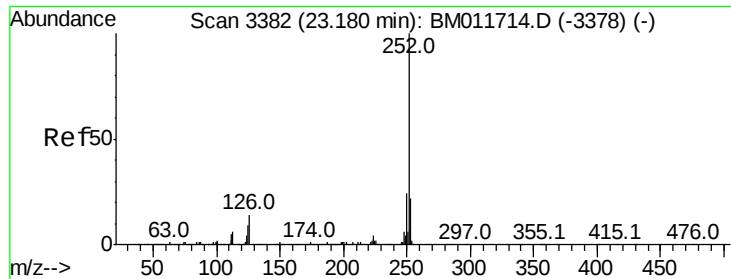
Sohil
9/25/2017 6:23:26 PM



#88
Benzo(b)fluoranthene
Concen: 93.665 ng/ul m
RT: 23.17 min Scan# 3380
Delta R.T. 0.02 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0
125	10.5	4.9	7.3#





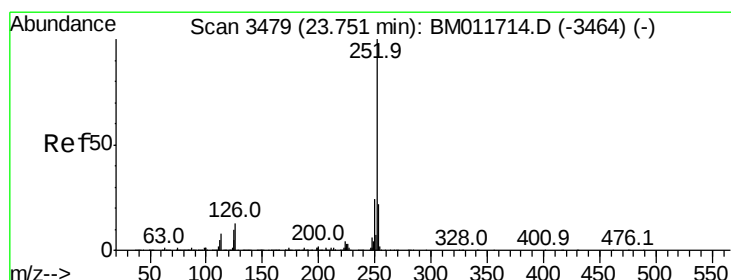
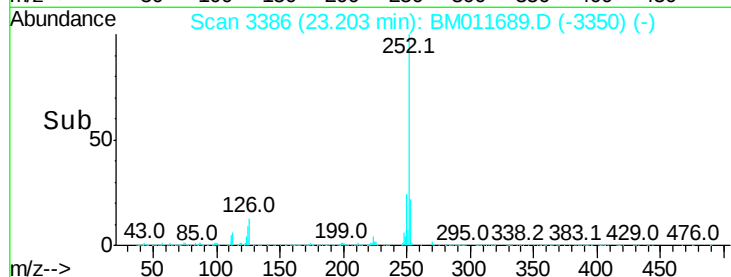
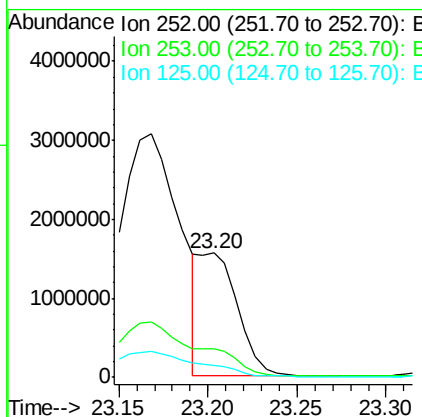
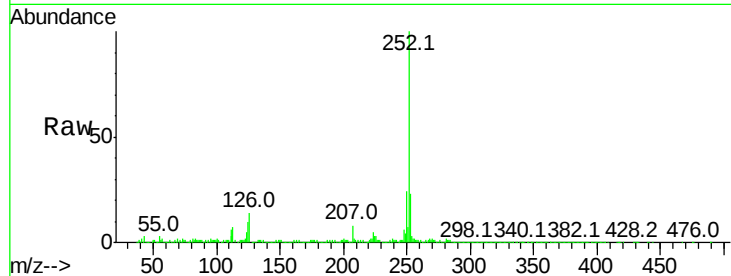
#89
Benzo(k)fluoranthene
Concen: 30.611 ng/ul m
RT: 23.20 min Scan# 3386
Delta R.T. 0.01 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Instrument :
BNA_M
ClientSampleId :
CB3B7

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	10.1	5.4	8.0#

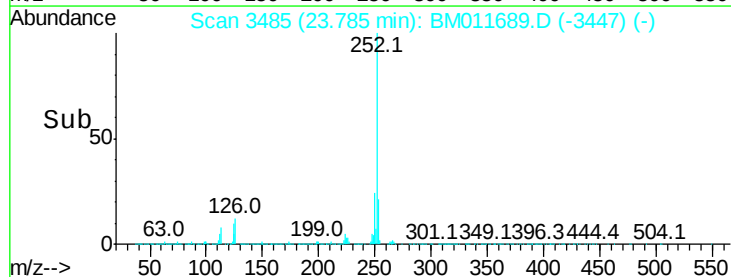
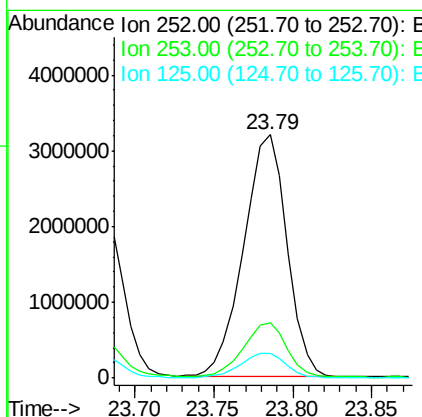
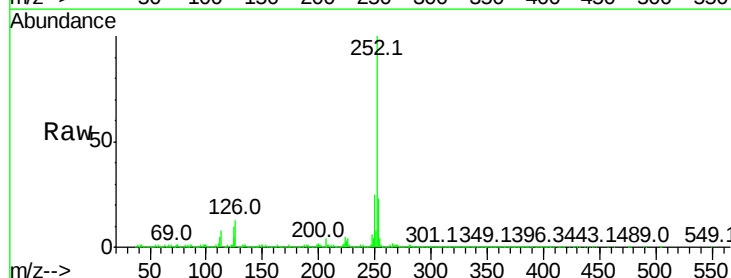
Manual Integrations
APPROVED

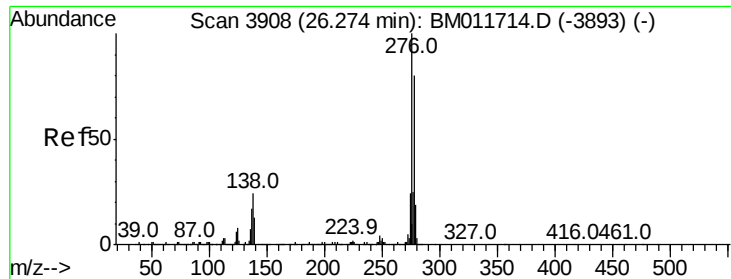
Sohil
9/25/2017 6:23:26 PM



#91
Benzo(a)pyrene
Concen: 83.072 ng/ul m
RT: 23.79 min Scan# 3485
Delta R.T. 0.02 min
Lab File: BM011689.D
Acq: 22 Sep 2017 12:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	10.1	5.8	8.6#





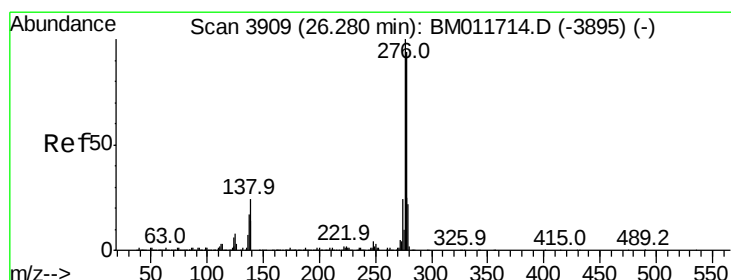
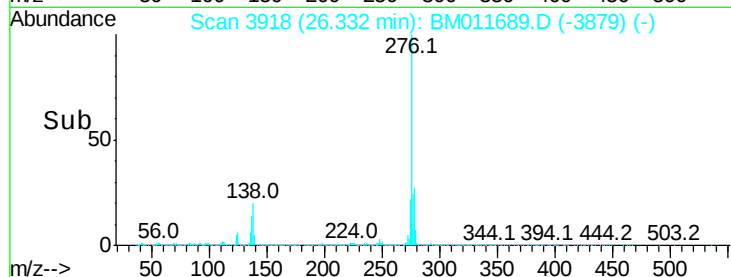
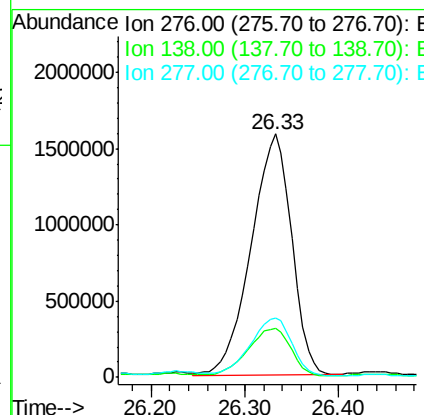
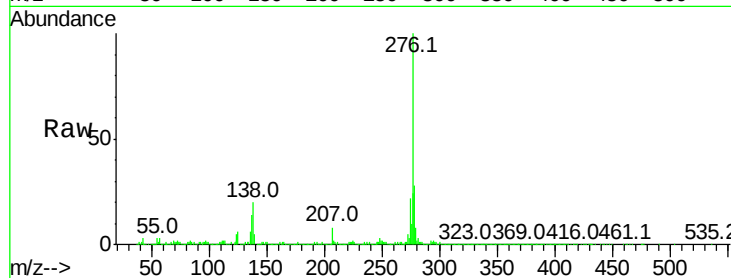
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 58.988 ng/ul m
 RT: 26.33 min Scan# 3918
 Delta R.T. 0.03 min
 Lab File: BM011689.D
 Acq: 22 Sep 2017 12:48

Instrument :
 BNA_M
 ClientSampleId :
 CB3B7

Tot Ion:276 Resp: 4766056
 Ion Ratio Lower Upper
 276 100
 138 20.1 10.9 16.3#
 277 24.4 18.9 28.3

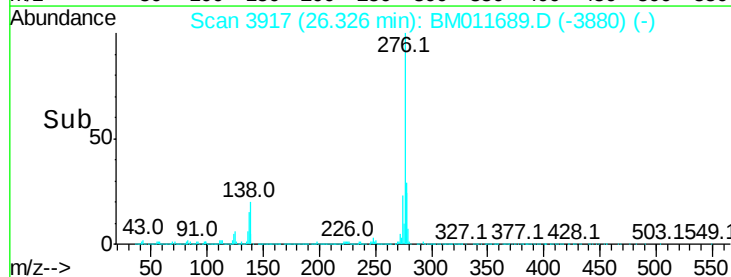
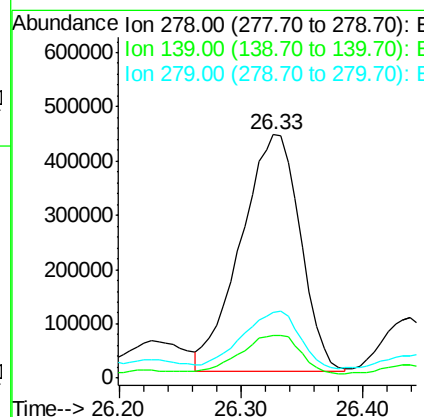
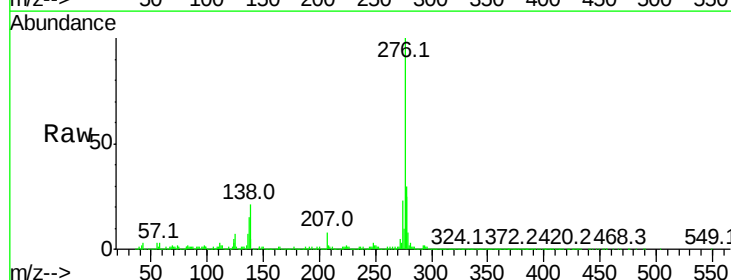
Manual Integrations
 APPROVED

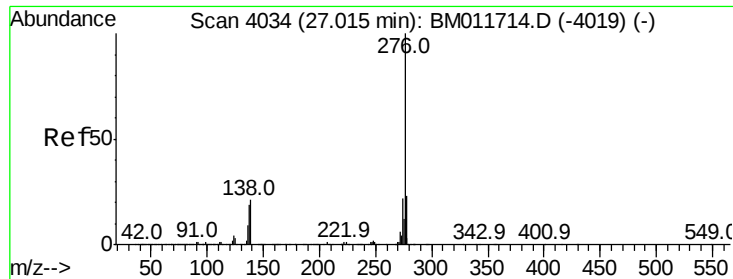
Sohil
 9/25/2017 6:23:26 PM



#93
 Dibenzo(a,h)anthracene
 Concen: 21.549 ng/ul m
 RT: 26.33 min Scan# 3917
 Delta R.T. 0.02 min
 Lab File: BM011689.D
 Acq: 22 Sep 2017 12:48

Tgt Ion:278 Resp: 1476350
 Ion Ratio Lower Upper
 278 100
 139 17.4 9.0 13.4#
 279 26.9 19.1 28.7





#94

Benzo(a,h,i)perylene

Concen: 87.694 ng/ul m

RT: 27.09 min Scan# 4047

Delta R.T. 0.04 min

Lab File: BM011689.D

Acq: 22 Sep 2017 12:48

Instrument :

BNA_M

ClientSampleId :

CB3B7

Tot Ion:276 Resp: 5738064

Ion Ratio Lower Upper

276 100

138 21.3 11.2 16.8#

277 24.5 19.0 28.6

Manual Integrations

APPROVED

Sohil

9/25/2017 6:23:26 PM

