

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020217.D
 Acq On : 16 Dec 2015 9:07
 Operator : UM/SJ
 Sample : G4767-07
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N29

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 12:00:13 PM

Quant Time: Dec 17 01:06:56 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 00:37:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	50078	20.00	ng/ul	0.00
18) Naphthalene-d8	10.93	136	215890	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.73	164	150041	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	308729	20.00	ng/ul	0.02
78) Chrysene-d12	21.75	240	367758	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	357605	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	2366	2.61	ng/uL	0.00
5) Phenol-d5	7.25	99	70563	15.98	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	45563	17.29	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	55934	17.42	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	61036	16.16	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	32816	19.50	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	38303	20.45	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	67126	17.70	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	80889	18.98	ng/ul	0.00
44) Dimethylphthalate-d6	14.14	166	212576	17.52	ng/ul	0.01
47) Acenaphthylene-d8	14.43	160	241212	17.08	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	32535	14.95	ng/ul	0.01
58) Fluorene-d10	15.73	176	183913	16.71	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	136	0.07	ng/ul	0.00
71) Anthracene-d10	17.61	188	250098	17.58	ng/ul	0.04
79) Pyrene-d10	19.86	212	301209	17.57	ng/ul	0.02
90) Benzo(a)pyrene-d12	24.80	264	334141	18.73	ng/ul	0.01

Target Compounds

						Qvalue
28) Naphthalene	11.00	128	3787887	335.98	ng/ul#	74
34) 2-Methylnaphthalene	12.59	142	2439561	283.29	ng/ul	99
35) 1-Methylnaphthalene	12.80	142	1233539	148.99	ng/ul#	96
41) 1,1'-Biphenyl	13.57	154	1103317	97.47	ng/ul	98
45) Dimethylphthalate	14.19	163	103721	8.37	ng/ul	100
48) Acenaphthylene	14.46	152	292513	19.50	ng/ul#	95
50) Acenaphthene	14.83	153	3465308	343.33	ng/ul#	83
54) Dibenzofuran	15.16	168	3416194	227.53	ng/ul#	64
59) Fluorene	15.81	166	3479771	288.61	ng/ul#	96
70) Phenanthrene	17.59	178	8132986	481.61	ng/ul#	33
72) Anthracene	17.65	178	2739537m	159.95	ng/ul	
75) Carbazole	17.89	167	1208366	83.96	ng/ul	94
77) Fluoranthene	19.56	202	5414779m	274.36	ng/ul	
80) Pyrene	19.92	202	4300376	193.20	ng/ul#	64
83) Benzo(a)anthracene	21.74	228	1638601	76.36	ng/ul#	90
85) Chrysene	21.81	228	1360206	67.30	ng/ul#	91
88) Benzo(b)fluoranthene	23.98	252	790319	36.72	ng/ul	96
89) Benzo(k)fluoranthene	24.05	252	273926	13.26	ng/ul	98
91) Benzo(a)pyrene	24.87	252	471054	23.09	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.74	276	147033	6.05	ng/ul	94
93) Dibenzo(a,h)anthracene	28.79	278	43193m	2.14	ng/ul	
94) Benzo(g,h,i)perylene	29.90	276	110711	5.56	ng/ul	97

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020217.D
Acq On : 16 Dec 2015 9:07
Operator : UM/SJ
Sample : G4767-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N29

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM

Quant Time: Dec 17 01:06:56 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 17 00:37:15 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

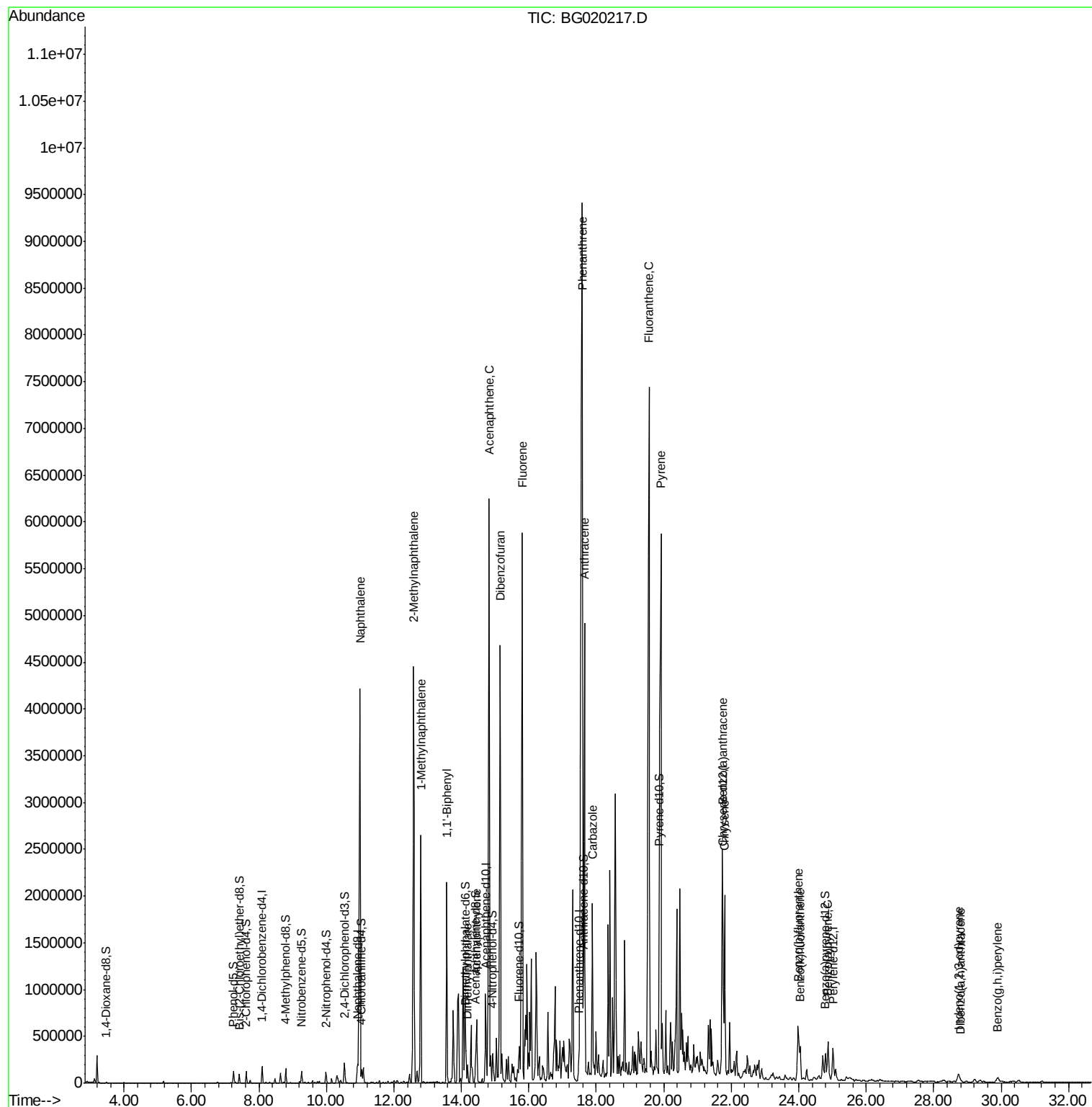
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
Data File : BG020217.D
Acq On : 16 Dec 2015 9:07
Operator : UM/SJ
Sample : G4767-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

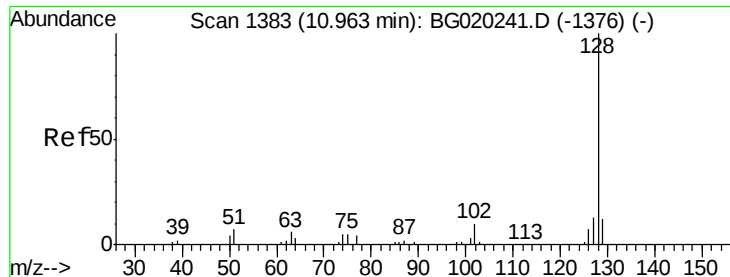
Instrument :
BNA_G
ClientSampleId :
D9N29

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM

Quant Time: Dec 17 01:06:56 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 17 00:37:15 2015
Response via : Initial Calibration





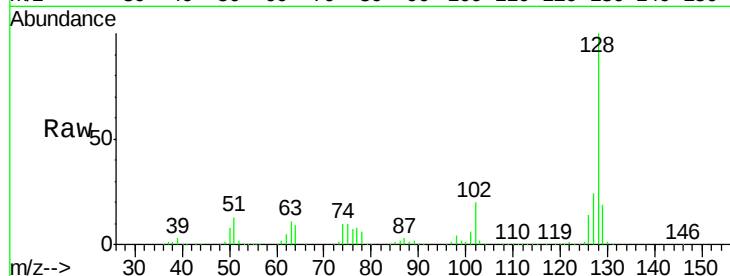
#28
Naphthalene
Concen: 335.98 ng/ul
RT: 11.00 min Scan# 1388
Delta R.T. 0.03 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

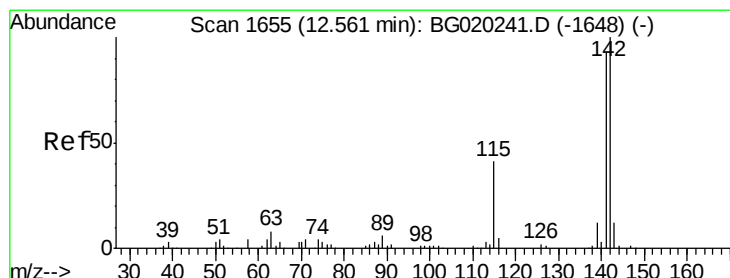
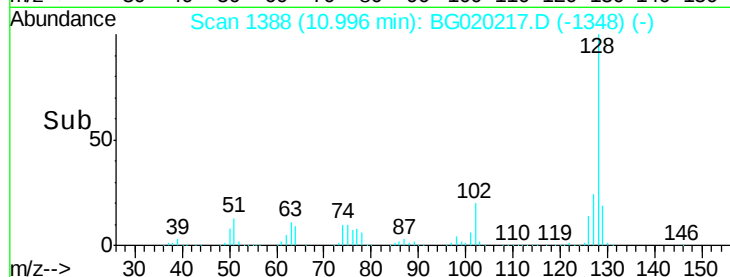
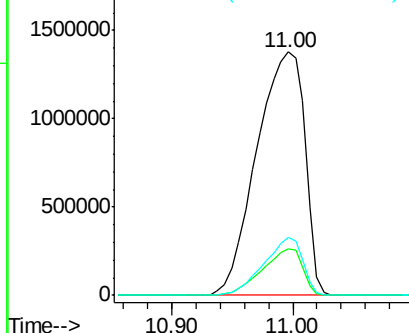
Tgt Ion:128 Resp: 3787887
Ion Ratio Lower Upper
128 100
129 19.3 8.6 12.8#
127 23.8 10.1 15.1#

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM

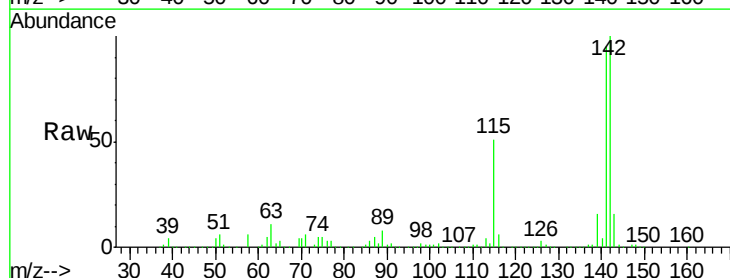


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

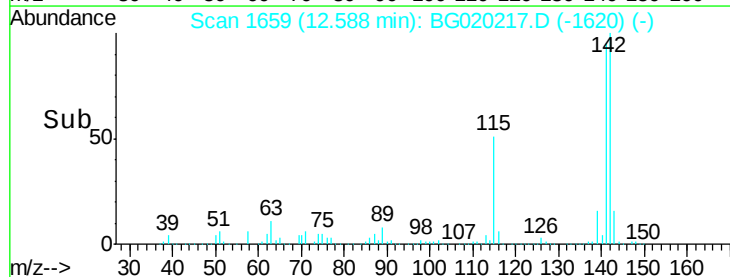
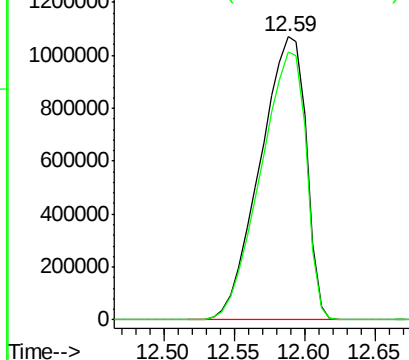


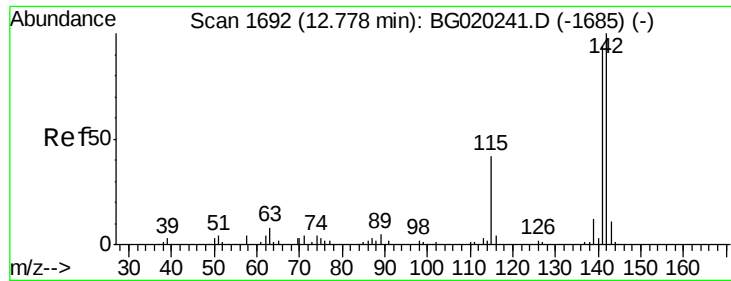
#34
2-Methylnaphthalene
Concen: 283.29 ng/ul
RT: 12.59 min Scan# 1659
Delta R.T. 0.03 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion:142 Resp: 2439561
Ion Ratio Lower Upper
142 100
141 94.6 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E





#35

1-Methylnaphthalene

Concen: 148.99 ng/ul

RT: 12.80 min Scan# 1695

Delta R.T. 0.02 min

Lab File: BG020217.D

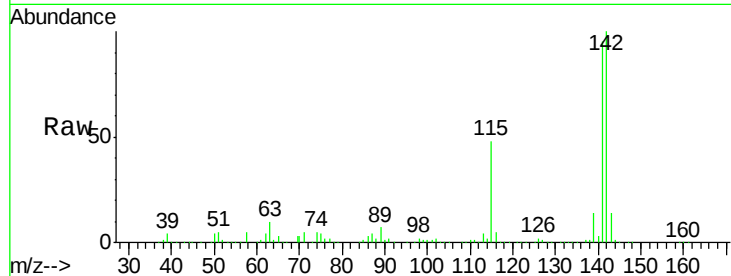
Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29



Tgt Ion:142 Resp: 1233539

Ion Ratio Lower Upper

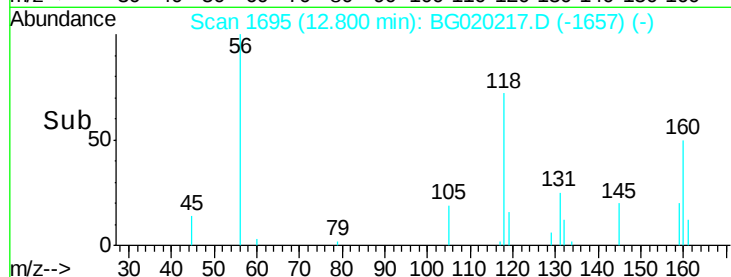
142 100

141 95.4 73.0 109.6

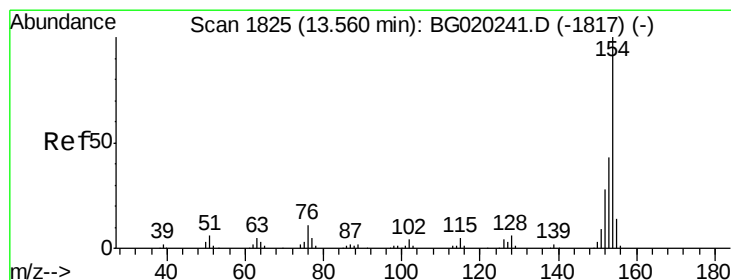
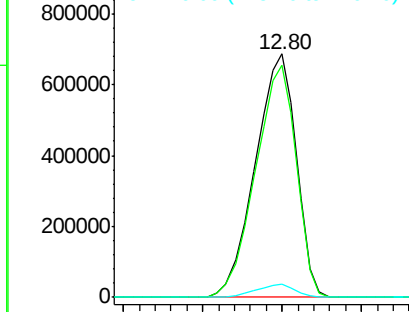
116 5.4 3.0 4.6#

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM



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



#41

1,1'-Biphenyl

Concen: 97.47 ng/ul

RT: 13.57 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

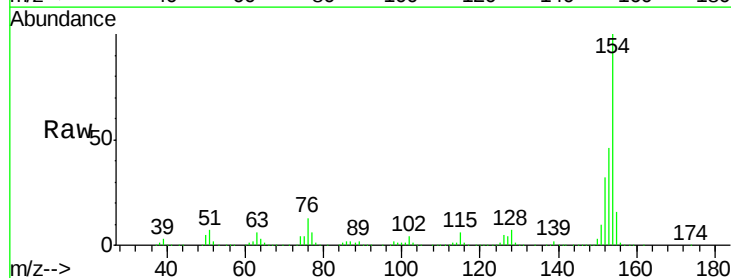
Tgt Ion:154 Resp: 1103317

Ion Ratio Lower Upper

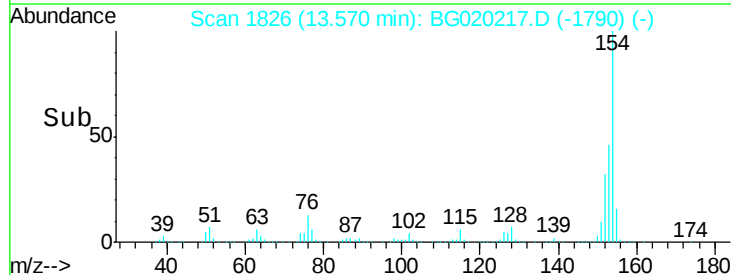
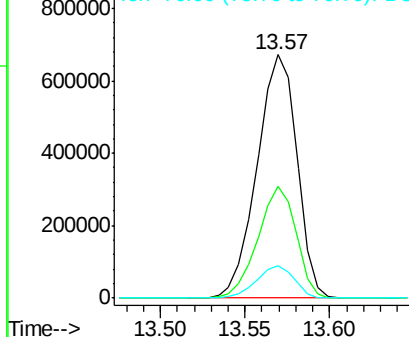
154 100

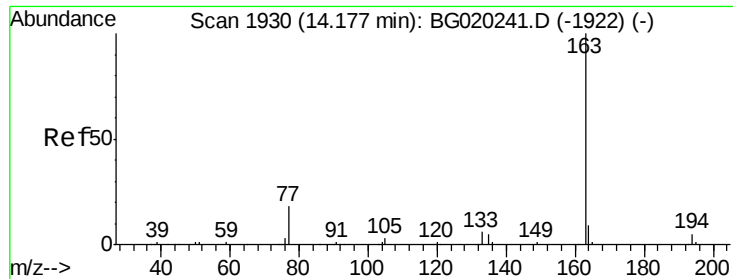
153 45.9 35.5 53.3

76 13.3 10.4 15.6



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): BG





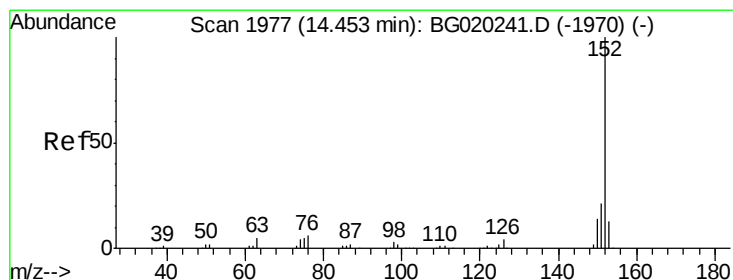
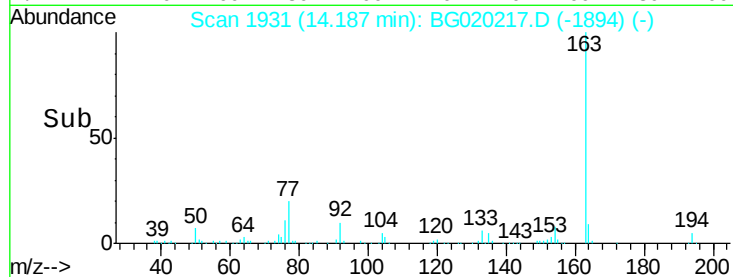
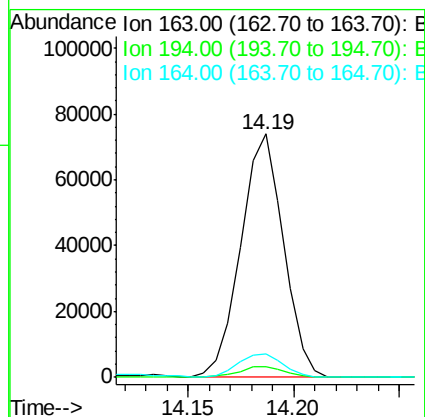
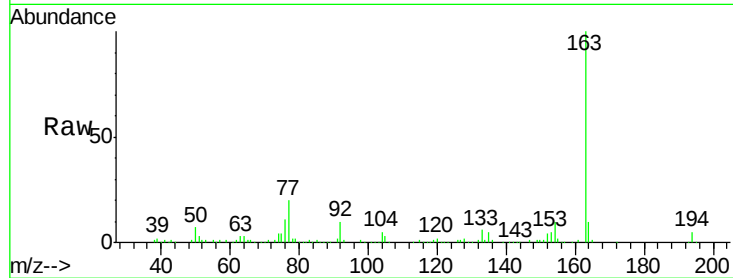
#45
Dimethylphthalate
Concen: 8.37 ng/ul
RT: 14.19 min Scan# 1931
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	4.6	3.5	5.3
164	9.8	7.7	11.5

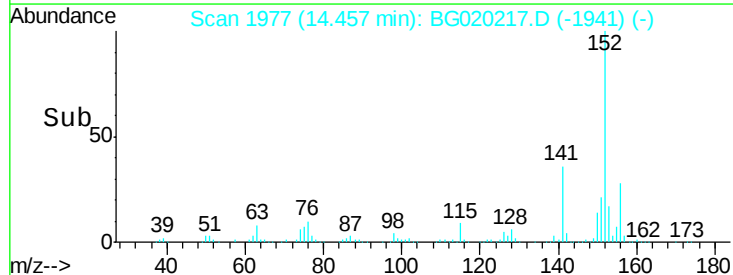
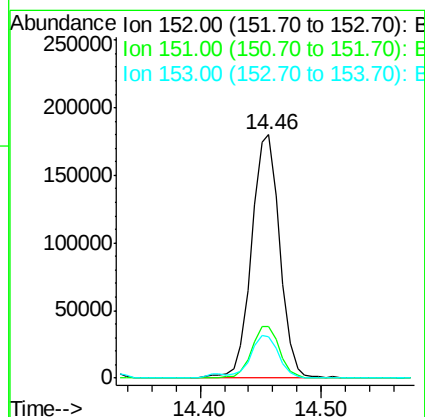
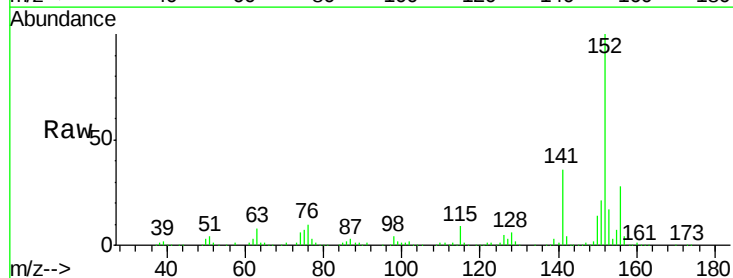
Manual Integrations
APPROVED

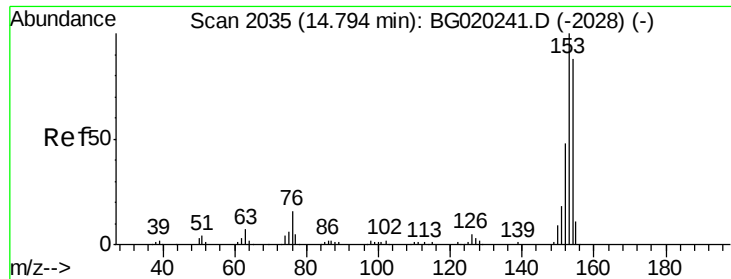
MMdadoda
12/17/2015 12:00:13 PM



#48
Acenaphthylene
Concen: 19.50 ng/ul
RT: 14.46 min Scan# 1977
Delta R.T. 0.01 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	21.2	16.4	24.6
153	16.7	10.4	15.6





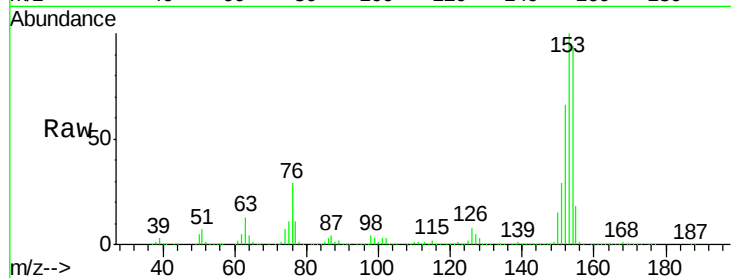
#50
Acenaphthene
Concen: 343.33 ng/ul
RT: 14.83 min Scan# 2041
Delta R.T. 0.04 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

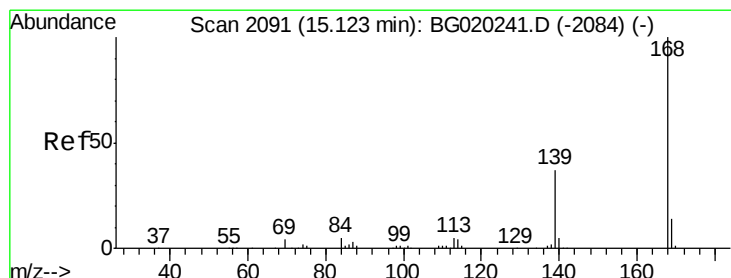
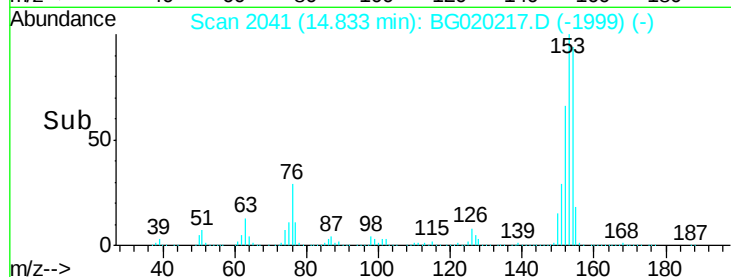
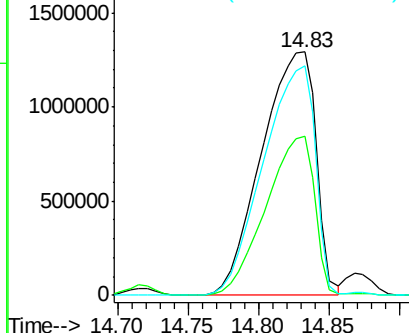
Tgt Ion:153 Resp: 3465308
Ion Ratio Lower Upper
153 100
152 65.5 37.6 56.4#
154 94.4 67.9 101.9

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM

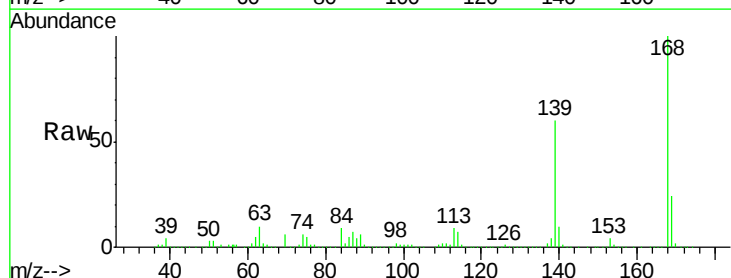


Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E

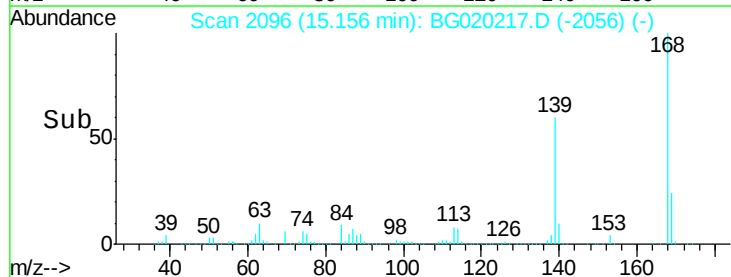
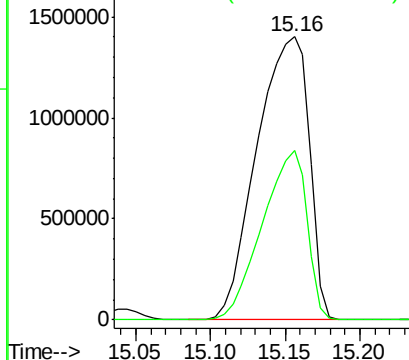


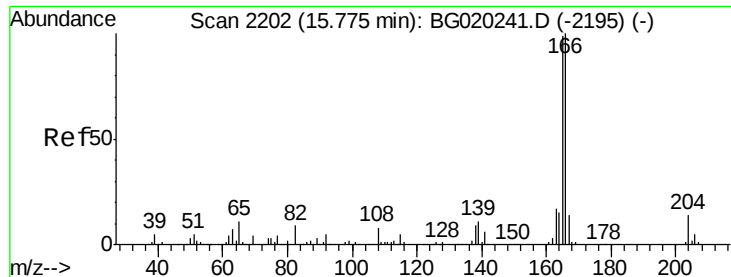
#54
Dibenzofuran
Concen: 227.53 ng/ul
RT: 15.16 min Scan# 2096
Delta R.T. 0.03 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion:168 Resp: 3416194
Ion Ratio Lower Upper
168 100
139 60.1 30.5 45.7#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





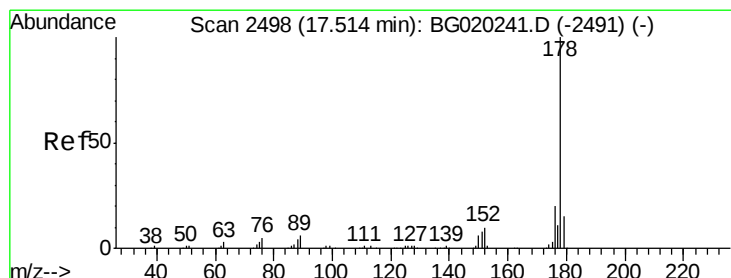
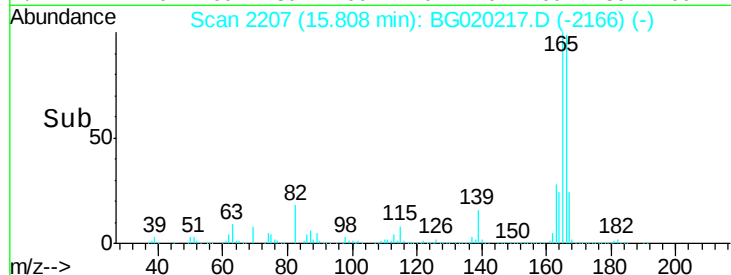
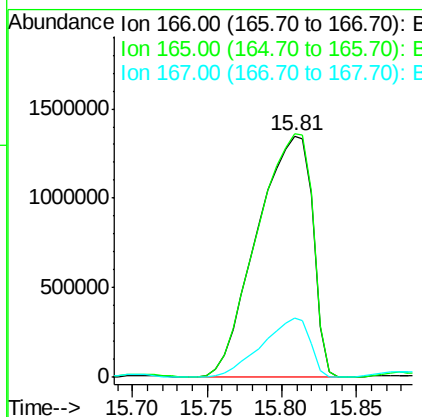
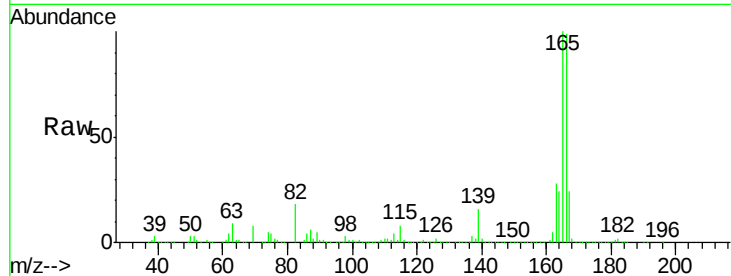
#59
Fluorene
Concen: 288.61 ng/ul
RT: 15.81 min Scan# 2207
Delta R.T. 0.04 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

Tgt Ion:166 Resp: 3479771
Ion Ratio Lower Upper
166 100
165 100.8 81.4 122.0
167 24.6 11.2 16.8#

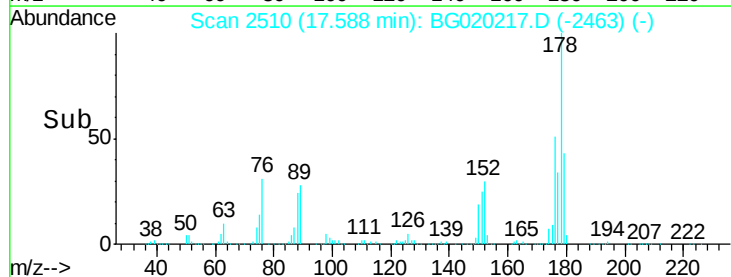
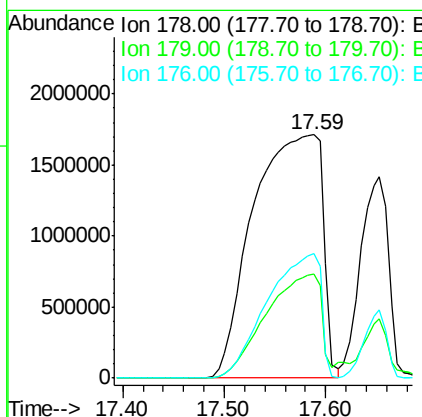
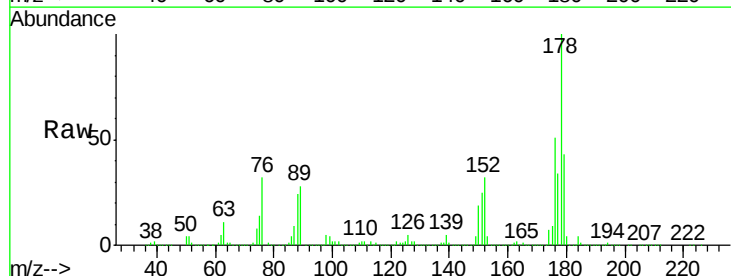
Manual Integrations
APPROVED

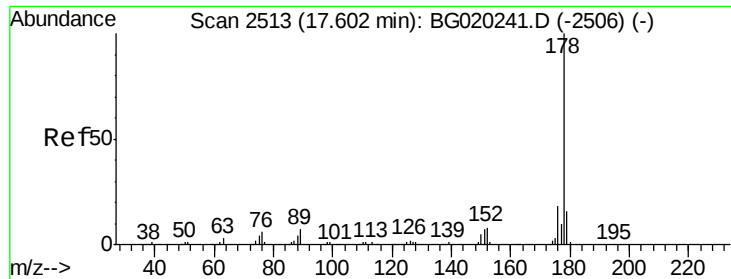
MMdadoda
12/17/2015 12:00:13 PM



#70
Phenanthrene
Concen: 481.61 ng/ul
RT: 17.59 min Scan# 2510
Delta R.T. 0.07 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion:178 Resp: 8132986
Ion Ratio Lower Upper
178 100
179 42.7 12.9 19.3#
176 51.0 15.3 22.9#





#72

Anthracene

Concen: 159.95 ng/ul m

RT: 17.65 min Scan# 2521

Delta R.T. 0.05 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

Tgt Ion:178 Resp: 2739537

Ion Ratio Lower Upper

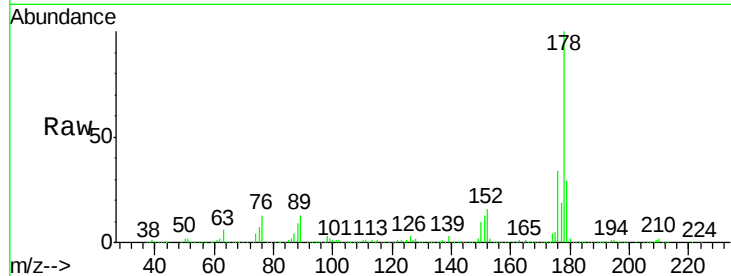
178 100

179 29.4 12.3 18.5#

176 33.7 14.3 21.5#

Manual Integrations
APPROVED

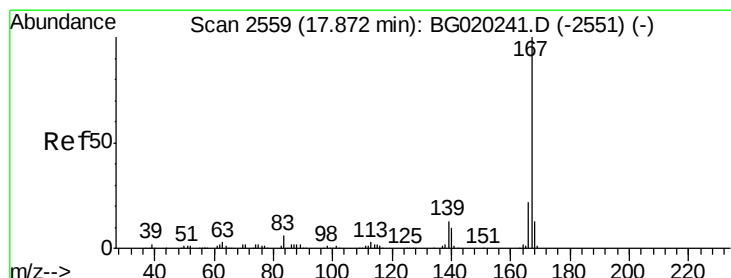
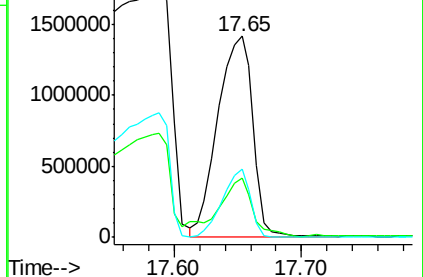
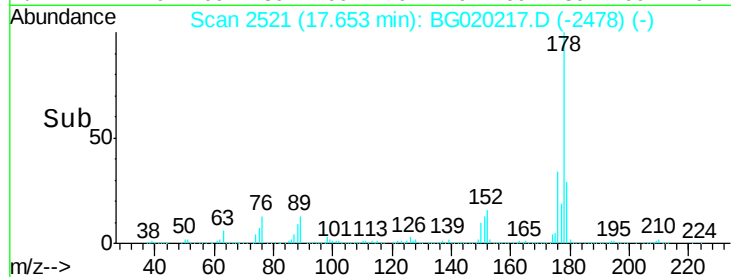
MMdadoda
12/17/2015 12:00:13 PM



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



#75

Carbazole

Concen: 83.96 ng/ul

RT: 17.89 min Scan# 2561

Delta R.T. 0.02 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

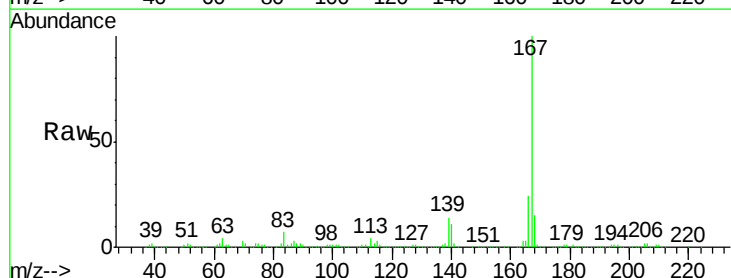
Tgt Ion:167 Resp: 1208366

Ion Ratio Lower Upper

167 100

166 24.4 17.0 25.6

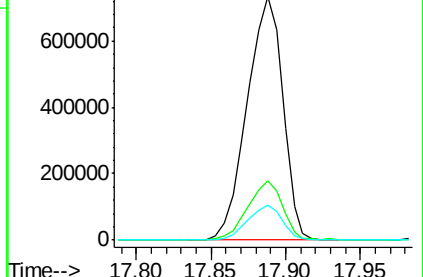
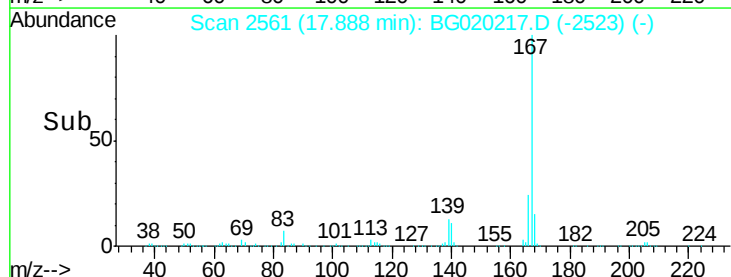
139 14.2 10.1 15.1

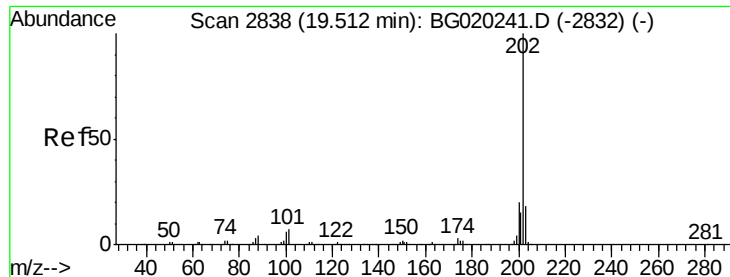


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 274.36 ng/ul m

RT: 19.56 min Scan# 2846

Delta R.T. 0.05 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

ClientSampleId :

D9N29

Tgt Ion:202 Resp: 5414779

Ion Ratio Lower Upper

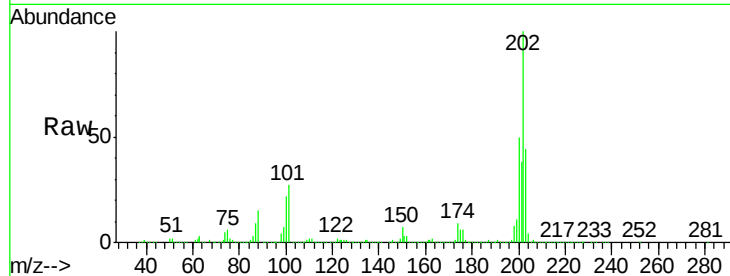
202 100

101 27.2 6.2 9.4#

100 22.4 5.1 7.7#

Manual Integrations
APPROVED

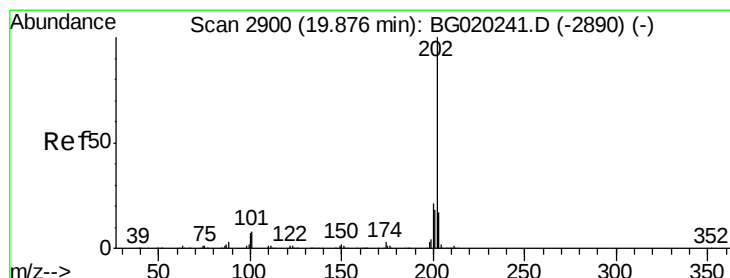
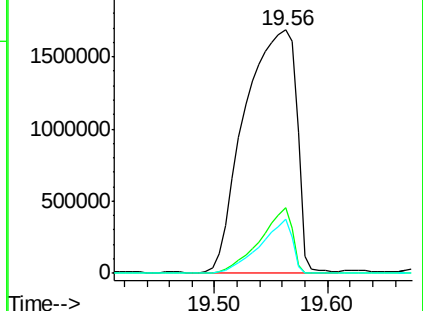
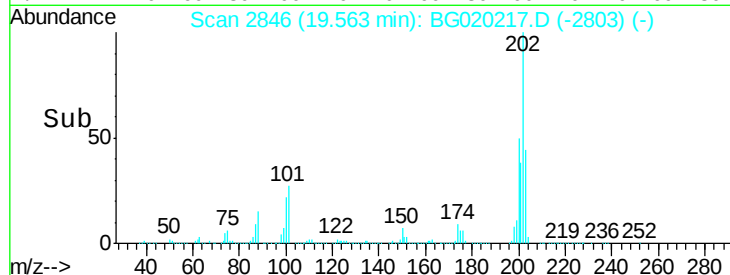
MMdadoda
12/17/2015 12:00:13 PM



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



#80

Pyrene

Concen: 193.20 ng/ul

RT: 19.92 min Scan# 2906

Delta R.T. 0.04 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

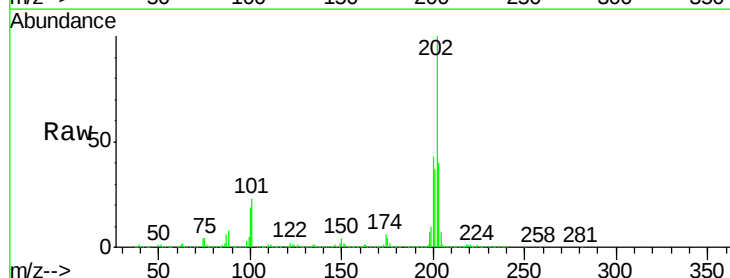
Tgt Ion:202 Resp: 4300376

Ion Ratio Lower Upper

202 100

101 22.5 7.0 10.4#

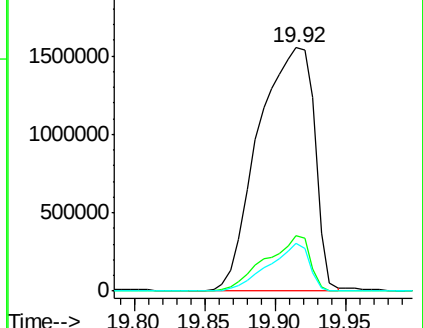
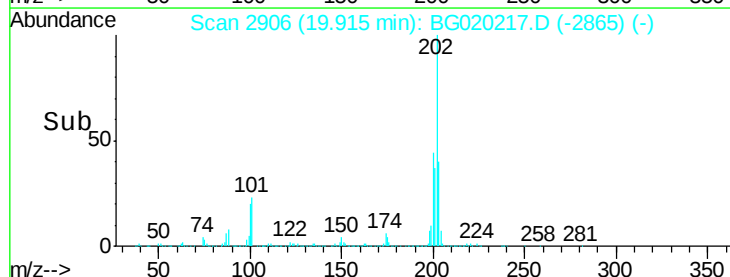
100 19.4 6.4 9.6#

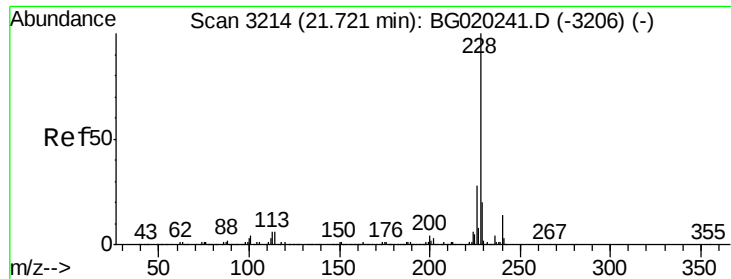


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





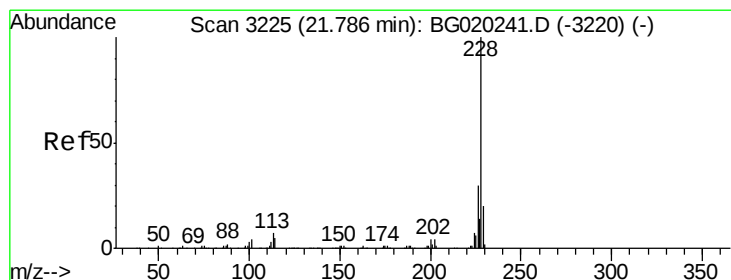
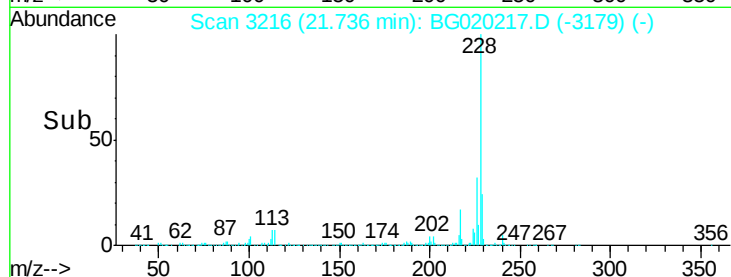
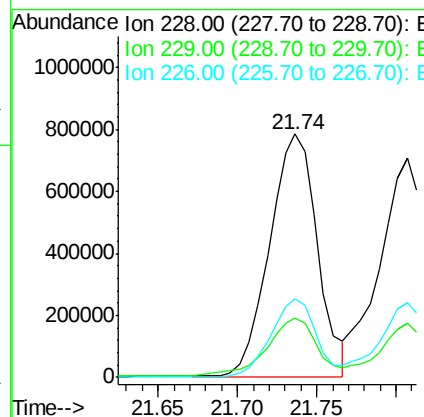
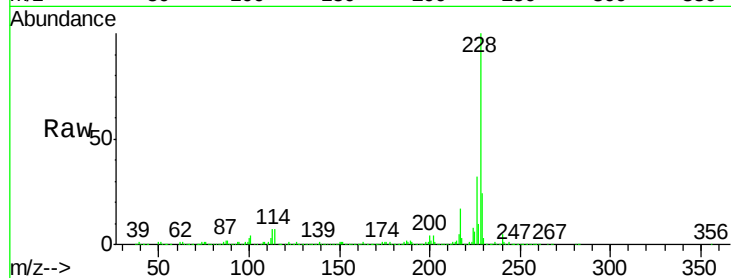
#83
Benzo(a)anthracene
Concen: 76.36 ng/ul
RT: 21.74 min Scan# 3216
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

Tgt Ion	Ratio	Lower	Upper
228	100		
229	24.4	15.8	23.8#
226	32.3	21.8	32.6

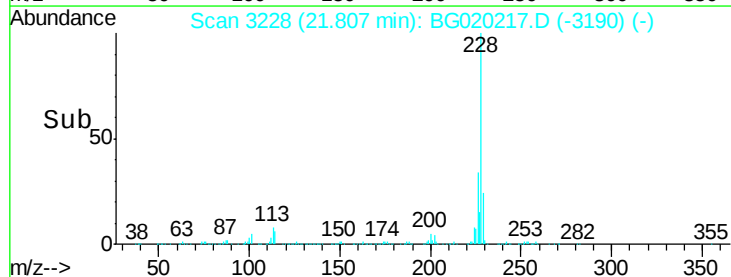
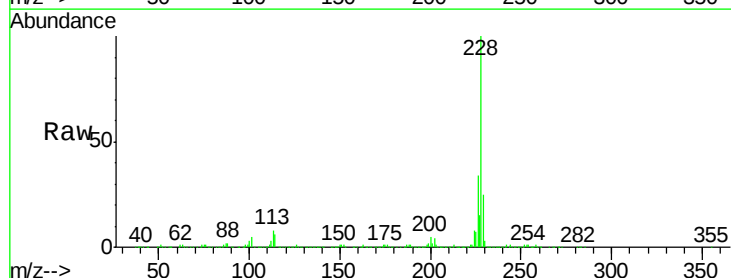
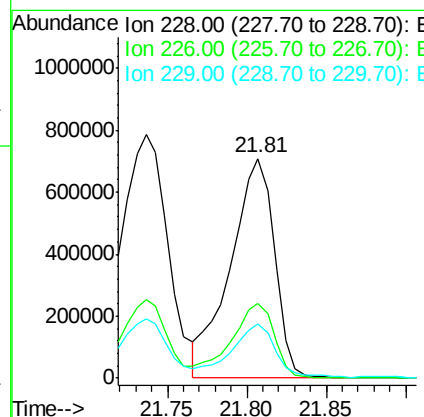
Manual Integrations
APPROVED

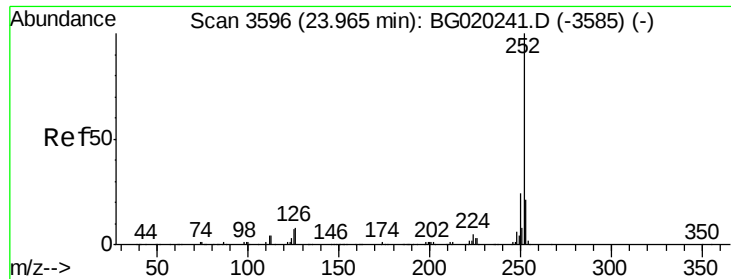
MMdadoda
12/17/2015 12:00:13 PM



#85
Chrysene
Concen: 67.30 ng/ul
RT: 21.81 min Scan# 3228
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.2	23.9	35.9
229	24.7	15.6	23.4#





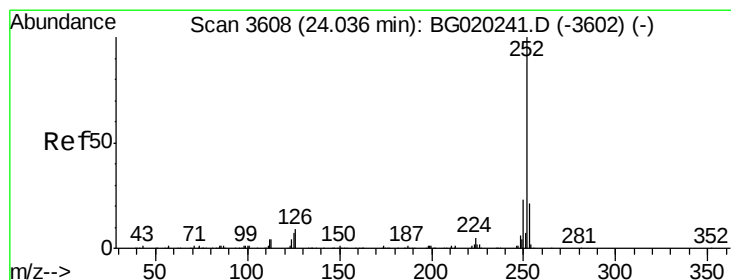
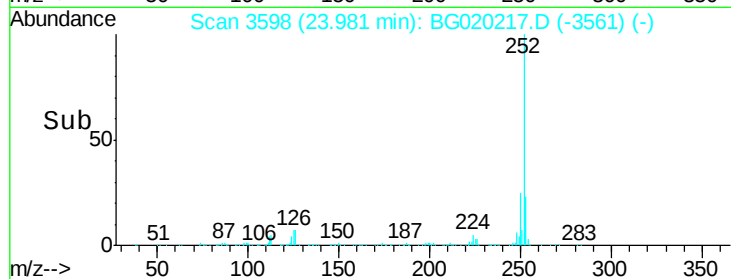
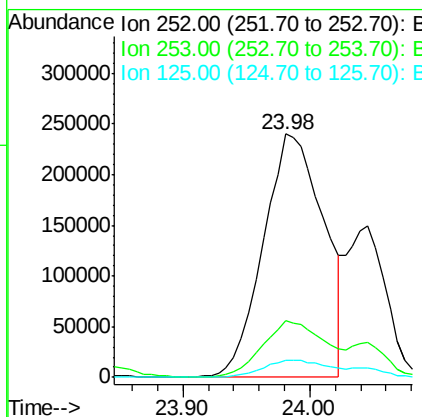
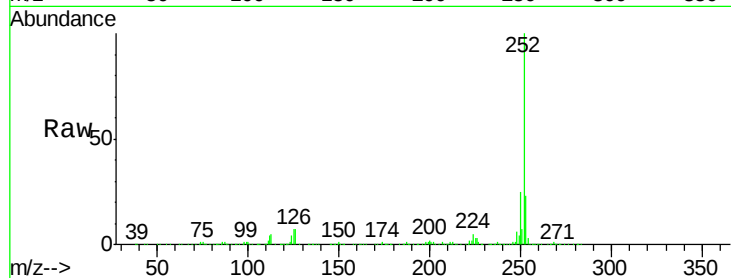
#88
Benzo(b)fluoranthene
Concen: 36.72 ng/u1
RT: 23.98 min Scan# 3598
Delta R.T. 0.02 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	16.7	25.1
125	6.9	6.2	9.2

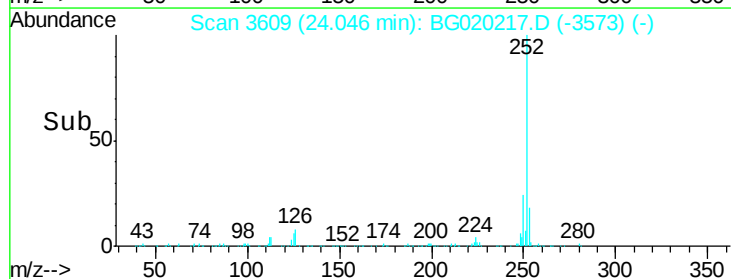
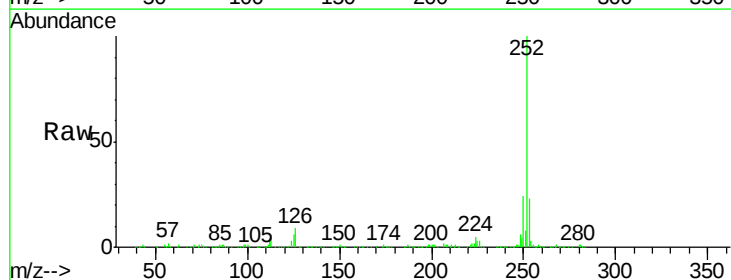
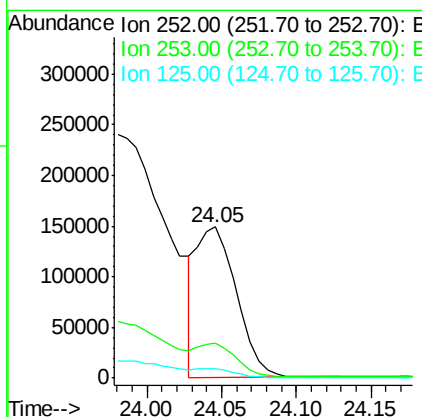
Manual Integrations
APPROVED

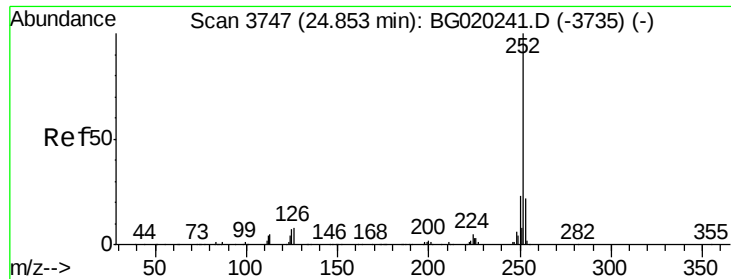
MMdadoda
12/17/2015 12:00:13 PM



#89
Benzo(k)fluoranthene
Concen: 13.26 ng/u1
RT: 24.05 min Scan# 3609
Delta R.T. 0.01 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	6.3	5.8	8.6





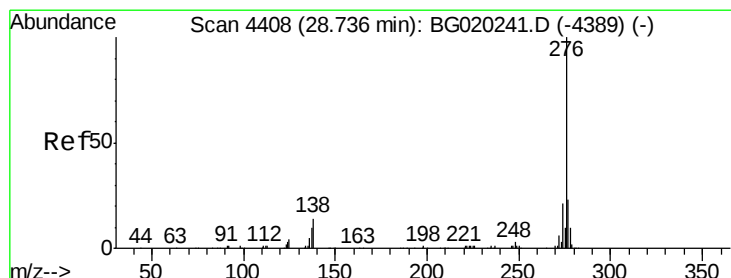
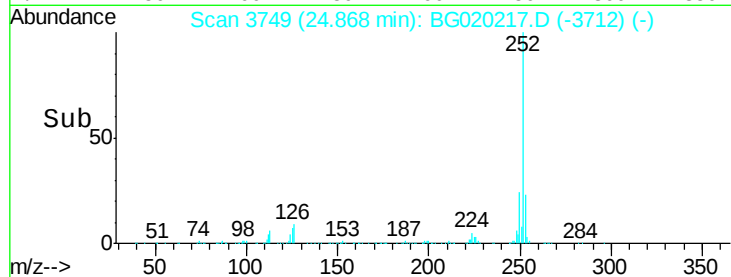
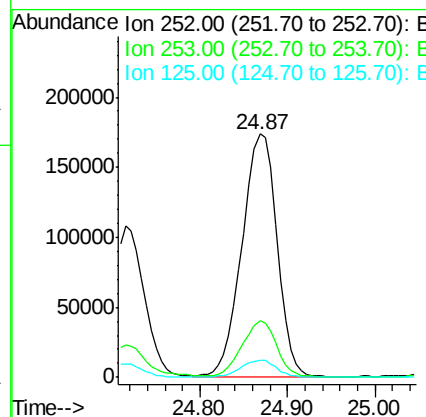
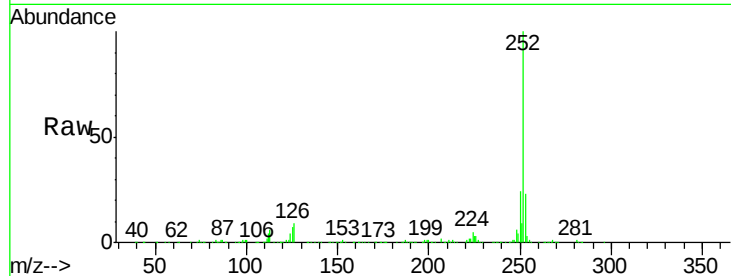
#91
Benzo(a)pyrene
Concen: 23.09 ng/u1
RT: 24.87 min Scan# 3749
Delta R.T. 0.01 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Instrument :
BNA_G
ClientSampleId :
D9N29

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	471054		
253	23.1	17.0	25.4	
125	7.0	6.2	9.4	

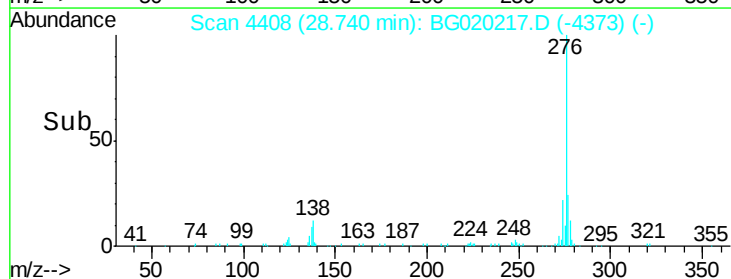
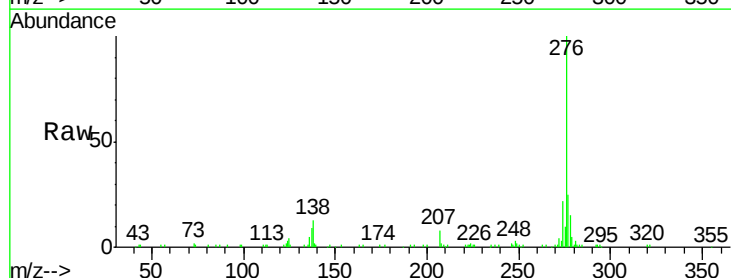
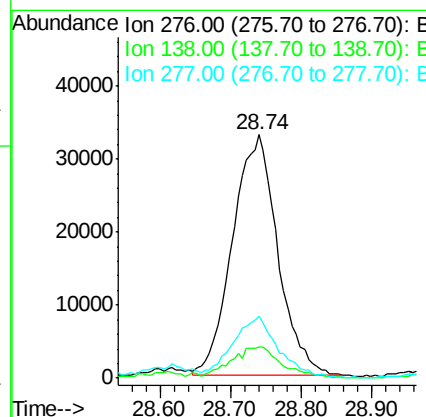
Manual Integrations
APPROVED

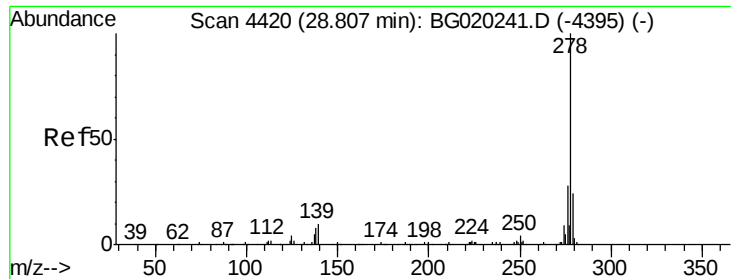
MMdadoda
12/17/2015 12:00:13 PM



#92
Indeno(1,2,3-cd)pyrene
Concen: 6.05 ng/u1
RT: 28.74 min Scan# 4408
Delta R.T. 0.00 min
Lab File: BG020217.D
Acq: 16 Dec 2015 9:07

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	147033		
138	12.8	11.4	17.0	
277	25.3	17.4	26.0	





#93

Dibenzo(a,h)anthracene

Concen: 2.14 ng/ul m

RT: 28.79 min Scan# 4417

Delta R.T. -0.00 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Instrument :

BNA_G

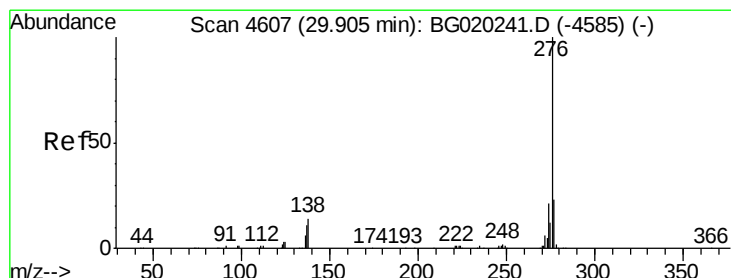
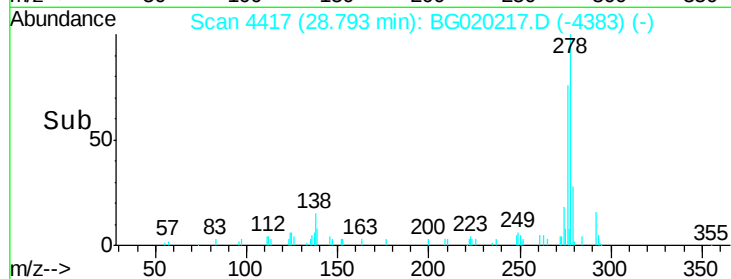
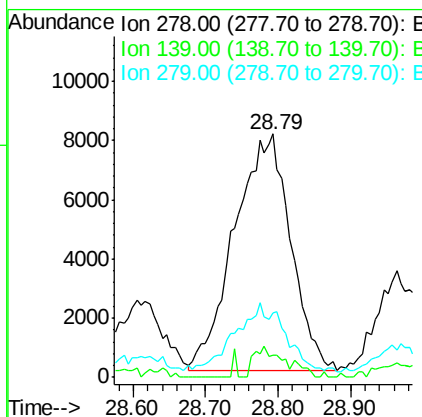
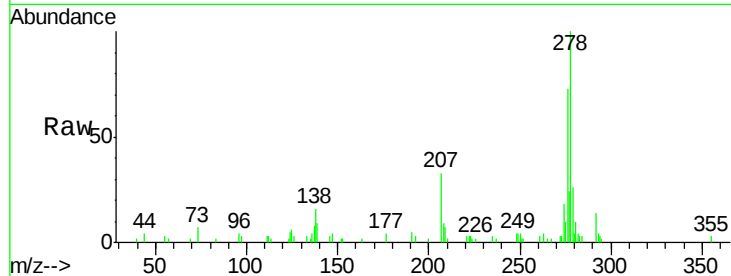
ClientSampleId :

D9N29

Tgt Ion:	278	Resp:	43193
Ion Ratio	Lower	Upper	
278	100		
139	9.3	9.4	14.2#
279	26.4	19.4	29.0

Manual Integrations
APPROVED

MMdadoda
12/17/2015 12:00:13 PM



#94

Benzo(g,h,i)perylene

Concen: 5.56 ng/ul

RT: 29.90 min Scan# 4606

Delta R.T. 0.00 min

Lab File: BG020217.D

Acq: 16 Dec 2015 9:07

Tgt Ion:	276	Resp:	110711
Ion Ratio	Lower	Upper	
276	100		
138	12.9	10.8	16.2
277	22.9	19.9	29.9

