

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020374.D
 Acq On : 21 Dec 2015 11:35
 Operator : UM/SJ
 Sample : G4848-04
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N50

Manual Integrations
 APPROVED

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 12/22/2015 4:48:41 PM

Quant Time: Dec 22 10:26:21 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 07:46:34 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	27850	20.00	ng/ul	0.00
18) Naphthalene-d8	10.94	136	111145	20.00	ng/ul	0.03
36) Acenaphthene-d10	14.74	164	86787	20.00	ng/ul	0.01
62) Phenanthrene-d10	17.53	188	157969m	20.00	ng/ul	0.06
78) Chrysene-d12	21.78	240	205005	20.00	ng/ul	0.03
86) Perylene-d12	25.04	264	195916	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.46	96	1341	2.66	ng/uL	0.00
5) Phenol-d5	7.25	99	42076	17.13	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	28813	19.66	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	35599	19.93	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	37496	17.85	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	20898	24.12	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	23011	23.87	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.55	165	41163	21.08	ng/ul	0.02
29) 4-Chloroaniline-d4	11.05	131	56746	25.87	ng/ul	0.00
44) Dimethylphthalate-d6	14.14	166	133682	19.04	ng/ul	0.02
47) Acenaphthylene-d8	14.43	160	156848	19.20	ng/ul	0.00
52) 4-Nitrophenol-d4	14.95	143	21381	16.98	ng/ul	0.02
58) Fluorene-d10	15.72	176	119030	18.69	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
71) Anthracene-d10	17.64	188	168041	23.09	ng/ul	0.07
79) Pyrene-d10	19.88	212	215520	22.56	ng/ul	0.03
90) Benzo(a)pyrene-d12	24.81	264	241355	24.70	ng/ul	0.02

Target Compounds

					Ovalue	
6) Phenol	7.28	94	6041	2.30	ng/ul#	90
11) 2-Methylphenol	8.54	108	7459	3.72	ng/ul	98
14) Acetophenone	8.92	105	4444	1.35	ng/ul	96
16) 4-Methylphenol	8.87	108	12333	5.55	ng/ul	98
24) 2,4-Dimethylphenol	10.08	107	22433m	9.56	ng/ul	
28) Naphthalene	11.04	128	8032617	1383.94	ng/ul#	47
34) 2-Methylnaphthalene	12.60	142	3615549	815.51	ng/ul	98
41) 1,1'-Biphenyl	13.57	154	1633125	249.43	ng/ul	94
45) Dimethylphthalate	14.19	163	57750	8.05	ng/ul	99
48) Acenaphthylene	14.46	152	524642	60.46	ng/ul#	92
50) Acenaphthene	14.85	153	5199037	890.53	ng/ul#	83
54) Dibenzofuran	15.17	168	4751413	547.10	ng/ul#	56
59) Fluorene	15.83	166	4830960	692.70	ng/ul#	96
70) Phenanthrene	17.62	178	11226759m	1299.30	ng/ul	
72) Anthracene	17.67	178	1952874m	222.83	ng/ul	
75) Carbazole	17.90	167	1481506	201.19	ng/ul#	91
77) Fluoranthene	19.60	202	8136595m	805.73	ng/ul	
80) Pyrene	19.95	202	6435167	518.64	ng/ul#	34
83) Benzo(a)anthracene	21.76	228	2832451	236.79	ng/ul#	77
85) Chrysene	21.83	228	2433546	216.01	ng/ul#	78
88) Benzo(b)fluoranthene	24.02	252	1598858	135.59	ng/ul	95
89) Benzo(k)fluoranthene	24.07	252	507486	44.85	ng/ul	96
91) Benzo(a)pyrene	24.90	252	918800	82.20	ng/ul	96

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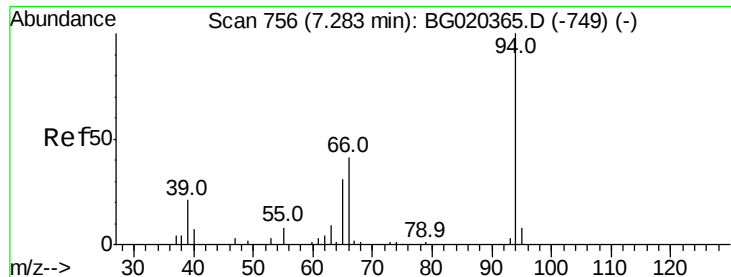
Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	28.77	276	269243m	20.23	ng/ul	
93) Dibenzo(a,h)anthracene	28.81	278	75152	6.80	ng/ul	94
94) Benzo(q,h,i)perylene	29.94	276	185151	16.97	ng/ul	98

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



#6

Phenol

Concen: 2.30 ng/ul

RT: 7.28 min Scan# 756

Delta R.T. -0.00 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

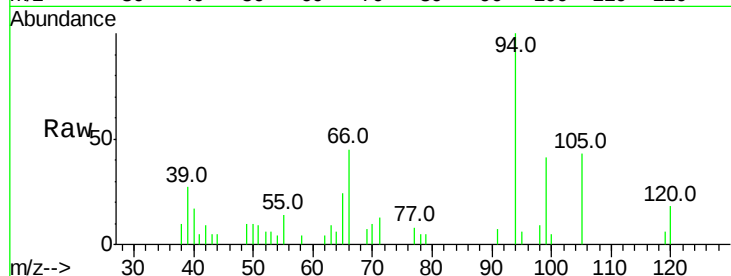
ClientSampleId :

D9N50

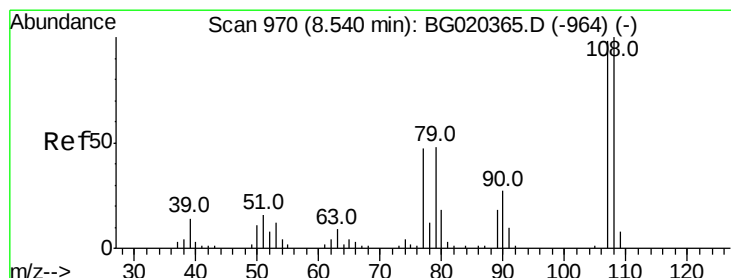
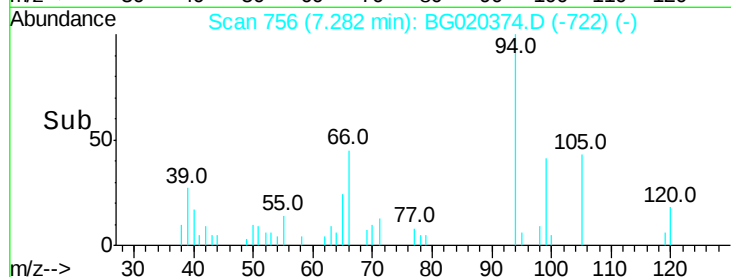
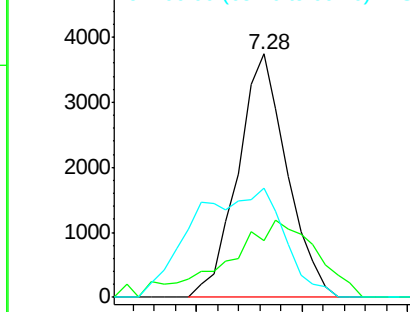
Tot Ion:	94	Resp:	6041
Ion	Ratio	Lower	Upper
94	100		
65	23.5	26.3	39.5#
66	44.9	33.3	49.9

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Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC



#11

2-Methylphenol

Concen: 3.72 ng/ul

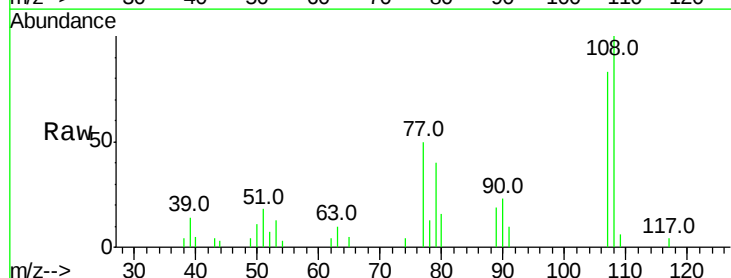
RT: 8.54 min Scan# 970

Delta R.T. -0.00 min

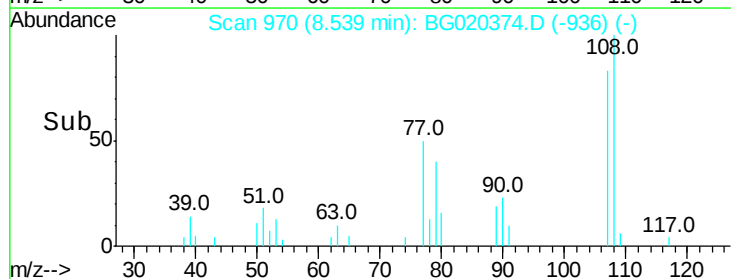
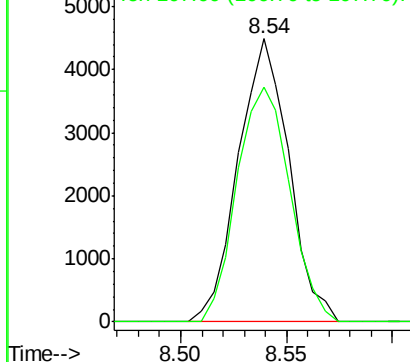
Lab File: BG020374.D

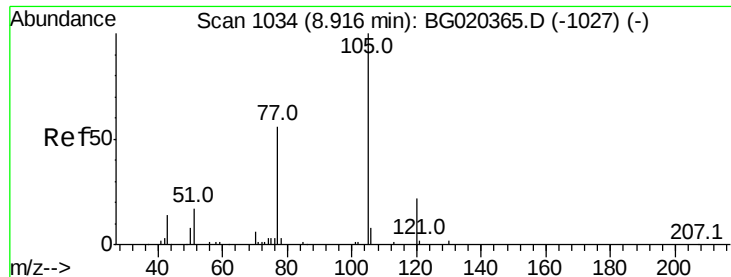
Acq: 21 Dec 2015 11:35

Tgt Ion:	108	Resp:	7459
Ion	Ratio	Lower	Upper
108	100		
107	82.8	67.5	101.3



Abundance Ion 108.00 (107.70 to 108.70): BGC
Ion 107.00 (106.70 to 107.70): BGC





#14

Acetophenone

Concen: 1.35 ng/ul

RT: 8.92 min Scan# 1035

Delta R.T. 0.00 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

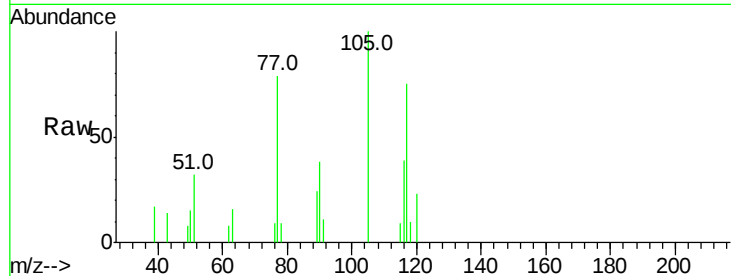
ClientSampleId :

D9N50

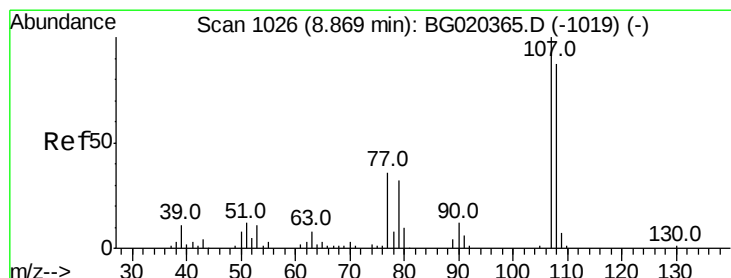
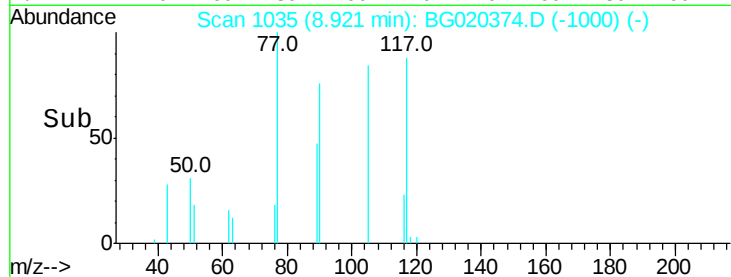
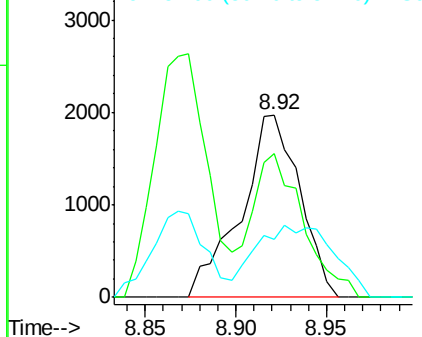
Tot Ion:	105	Resp:	4444
Ion Ratio	Lower	Upper	
105	100		
77	78.6	65.2	97.8
51	32.0	22.6	33.8

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Abundance Ion 105.00 (104.70 to 105.70): E



#16

4-Methylphenol

Concen: 5.55 ng/ul

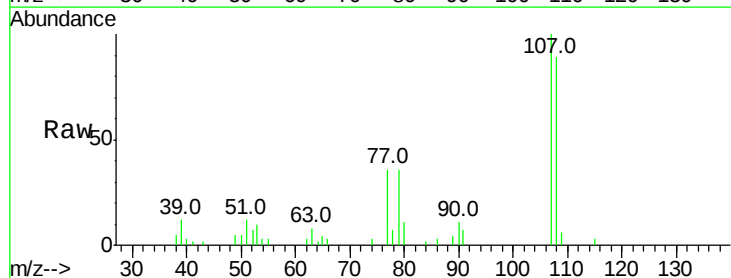
RT: 8.87 min Scan# 1027

Delta R.T. 0.00 min

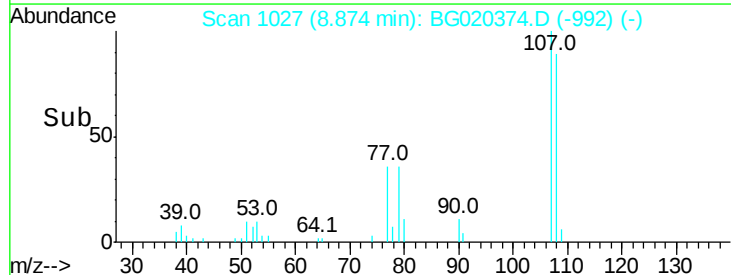
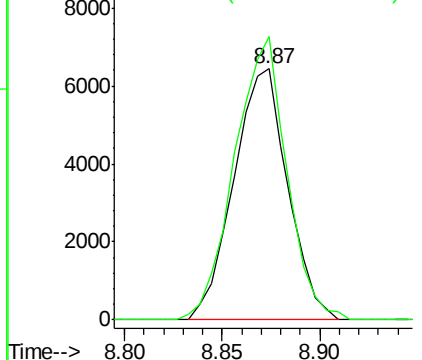
Lab File: BG020374.D

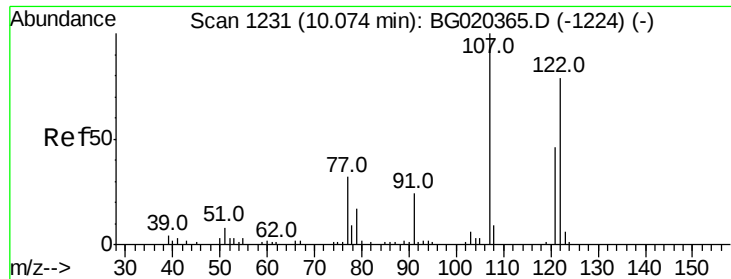
Acq: 21 Dec 2015 11:35

Tgt Ion:	108	Resp:	12333
Ion Ratio	Lower	Upper	
108	100		
107	112.9	88.9	133.3



Abundance Ion 108.00 (107.70 to 108.70): E





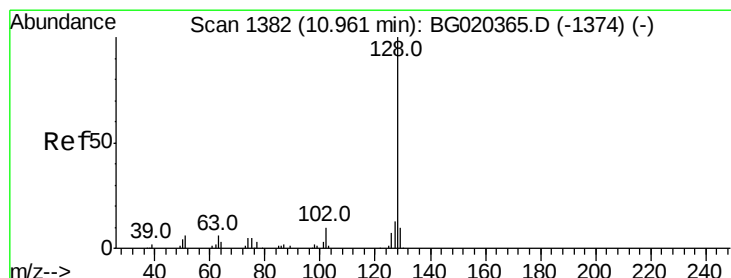
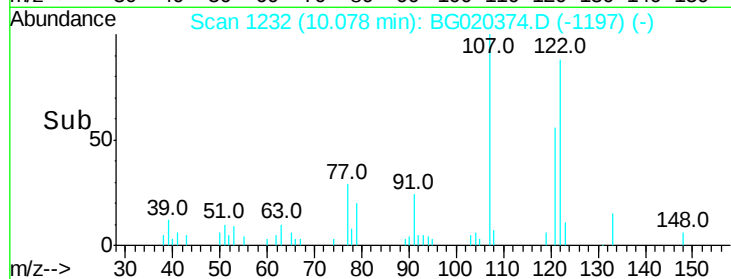
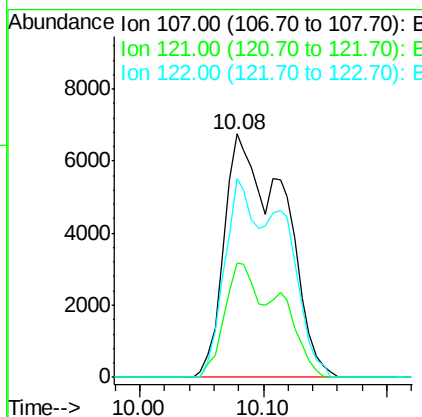
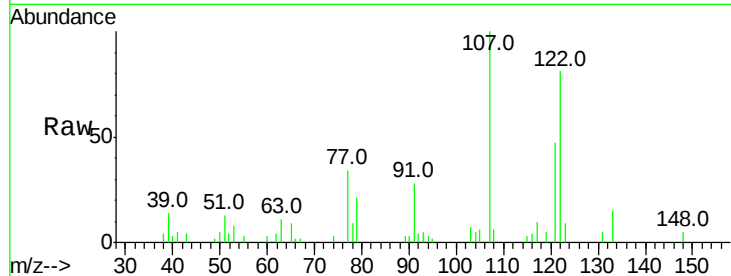
#24
2,4-Dimethylphenol
Concen: 9.56 ng/ul m
RT: 10.08 min Scan# 1232
Delta R.T. 0.00 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Instrument :
BNA_G
ClientSampleId :
D9N50

Tot Ion	Ratio	Lower	Upper
107	100		
121	47.1	39.0	58.4
122	81.4	62.1	93.1

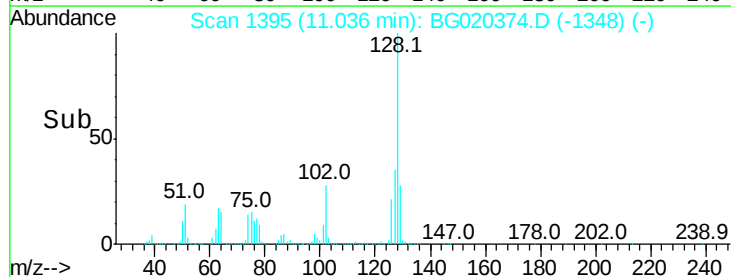
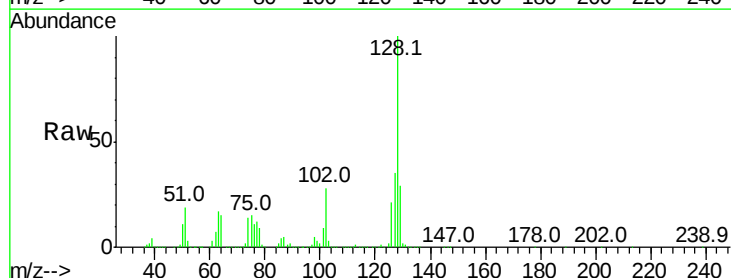
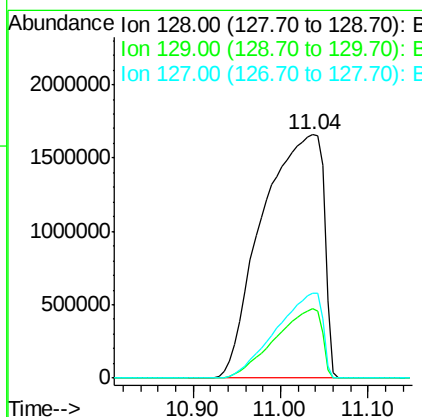
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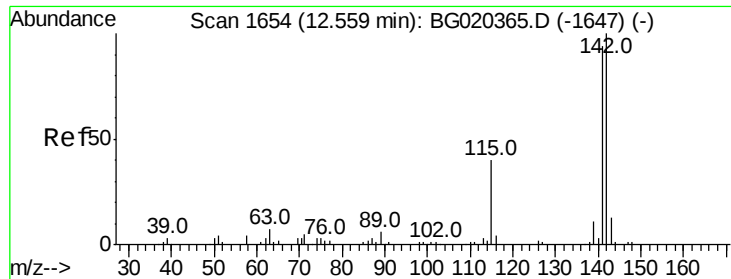
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#28
Naphthalene
Concen: 1383.94 ng/ul
RT: 11.04 min Scan# 1395
Delta R.T. 0.08 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	28.5	8.6	12.8#
127	35.1	10.1	15.1#





#34

2-Methylnaphthalene

Concen: 815.51 ng/ul

RT: 12.60 min Scan# 1662

Delta R.T. 0.05 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

ClientSampleId :

D9N50

Tot Ion:142 Resp: 3615549

Ion Ratio Lower Upper

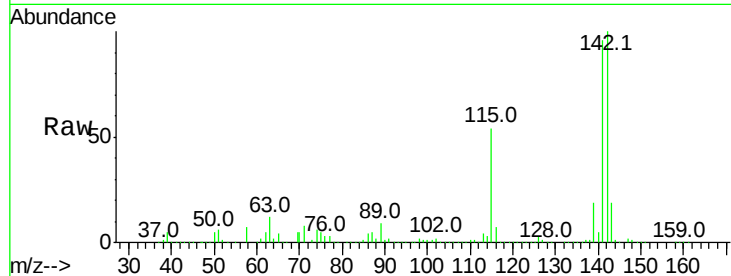
142 100

141 95.9 74.9 112.3

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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

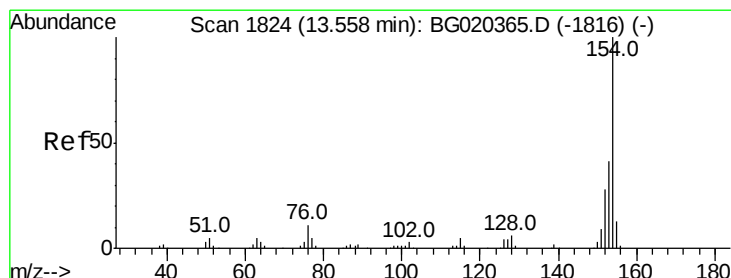
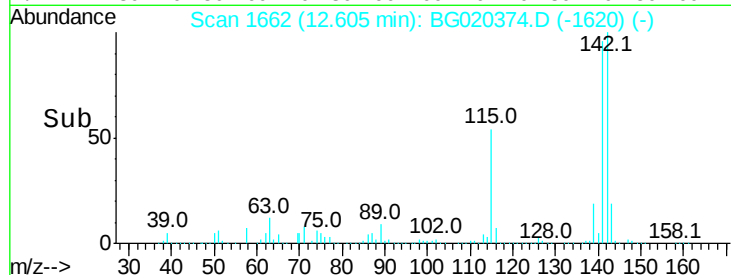
12.60

1000000

500000

0

Time-->



#41

1,1'-Biphenyl

Concen: 249.43 ng/ul

RT: 13.57 min Scan# 1827

Delta R.T. 0.02 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

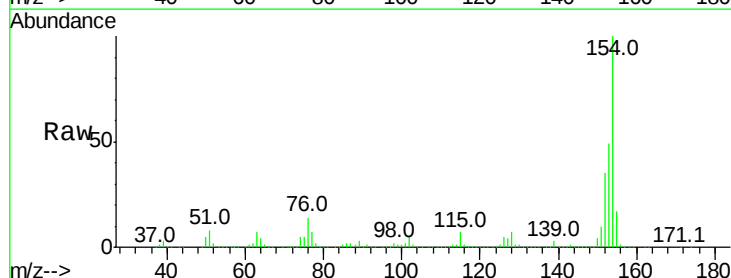
Tgt Ion:154 Resp: 1633125

Ion Ratio Lower Upper

154 100

153 48.8 35.5 53.3

76 14.5 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

13.57

1200000

1000000

800000

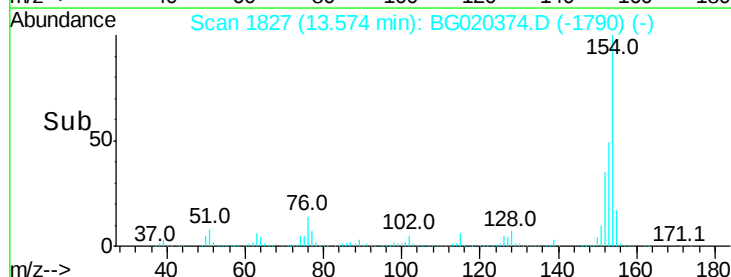
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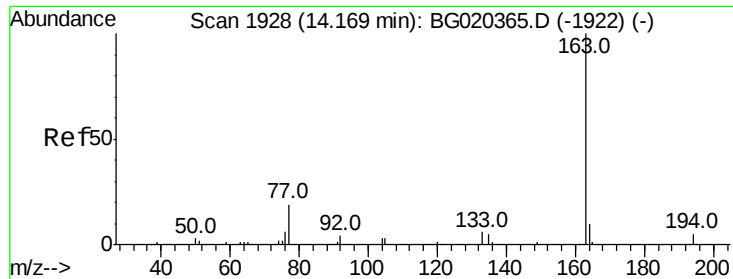
400000

200000

0

Time-->





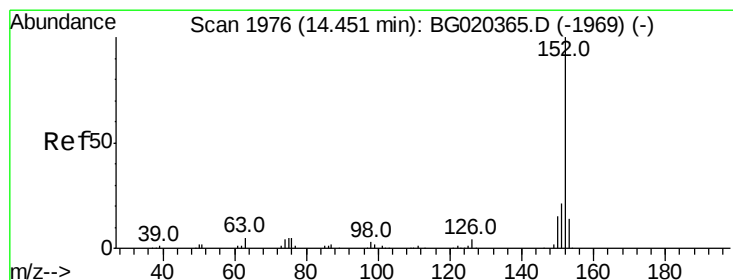
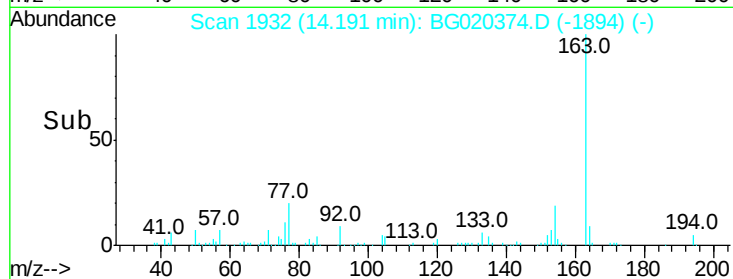
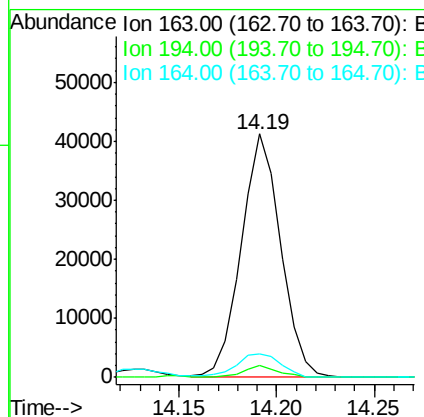
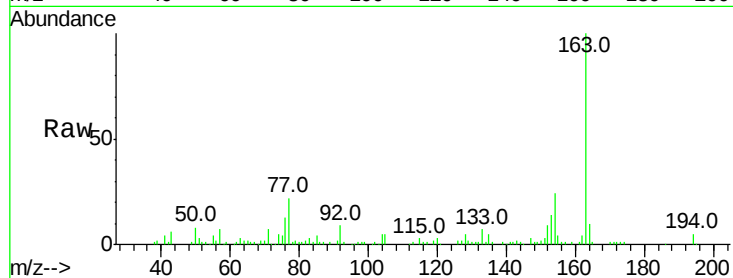
#45
 Dimethylphthalate
 Concen: 8.05 ng/ul
 RT: 14.19 min Scan# 1932
 Delta R.T. 0.02 min
 Lab File: BG020374.D
 Acq: 21 Dec 2015 11:35

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Tot Ion:	163	Resp:	57750
Ion Ratio	Lower	Upper	
163	100		
194	4.7	3.5	5.3
164	9.8	7.7	11.5

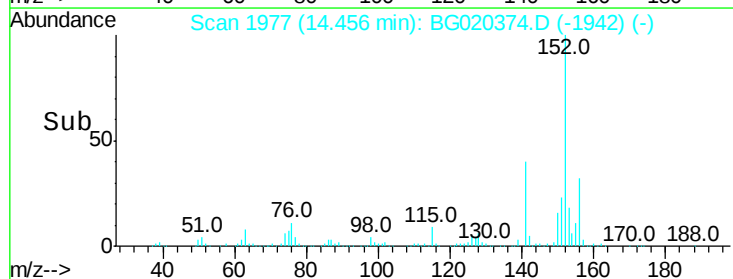
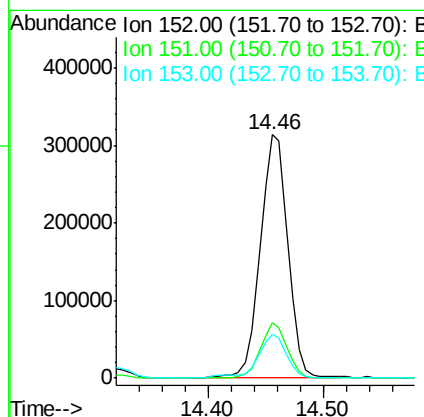
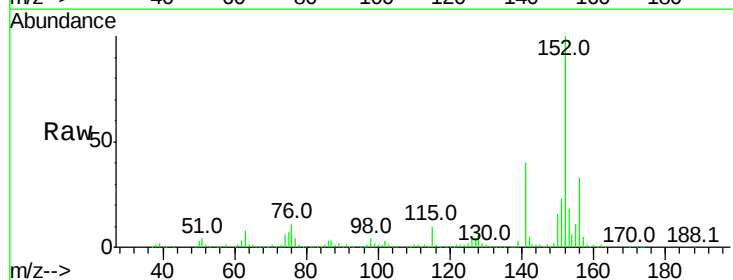
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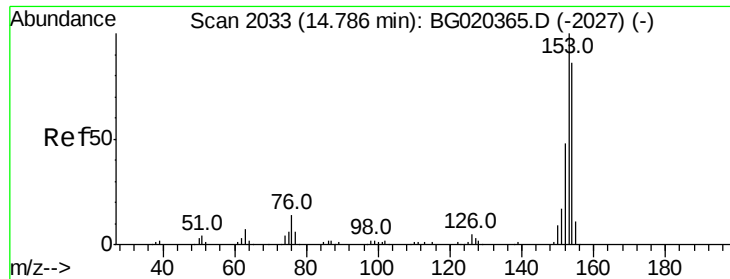
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#48
 Acenaphthylene
 Concen: 60.46 ng/ul
 RT: 14.46 min Scan# 1977
 Delta R.T. 0.00 min
 Lab File: BG020374.D
 Acq: 21 Dec 2015 11:35

Tgt Ion:	152	Resp:	524642
Ion Ratio	Lower	Upper	
152	100		
151	23.0	16.4	24.6
153	18.2	10.4	15.6#





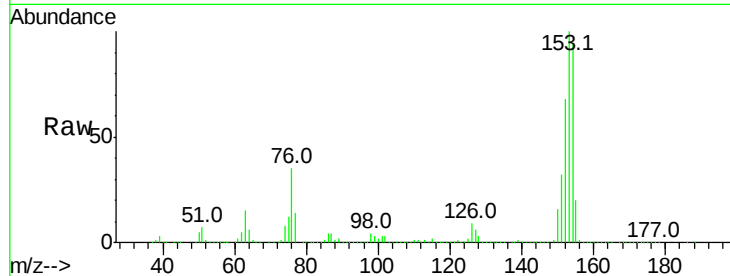
#50
Acenaphthene
Concen: 890.53 ng/ul
RT: 14.85 min Scan# 2044
Delta R.T. 0.06 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Instrument :
BNA_G
ClientSampleId :
D9N50

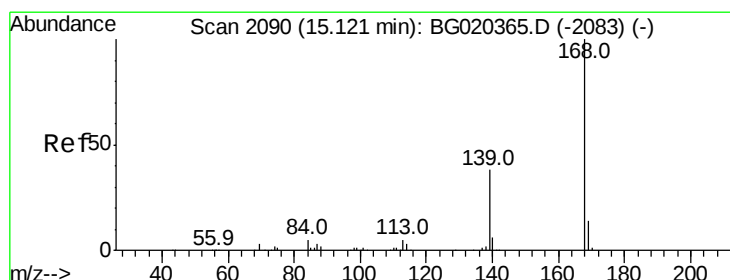
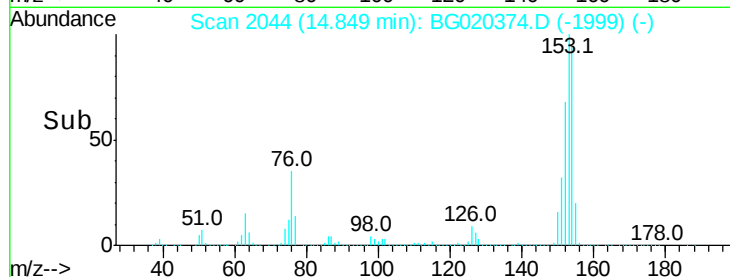
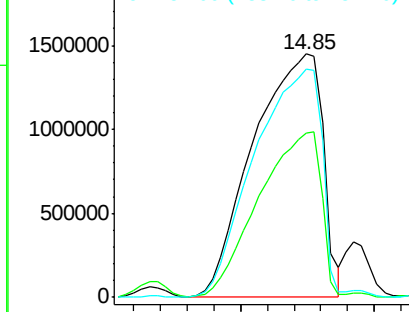
Tot Ion:153 Resp: 5199037
Ion Ratio Lower Upper
153 100
152 67.7 37.6 56.4#
154 93.6 67.9 101.9

Manual Integrations
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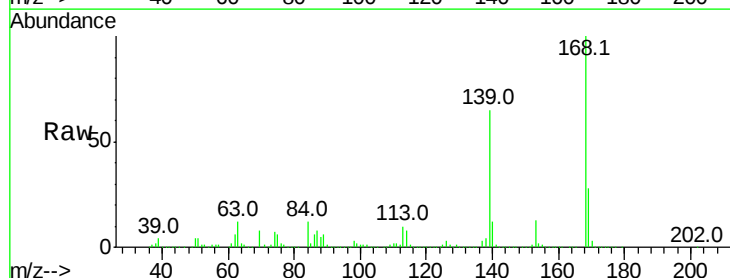


Abundance Ion 153.00 (152.70 to 153.70): E
2000000 Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E

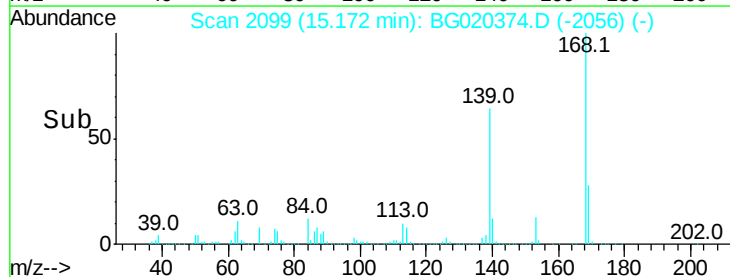
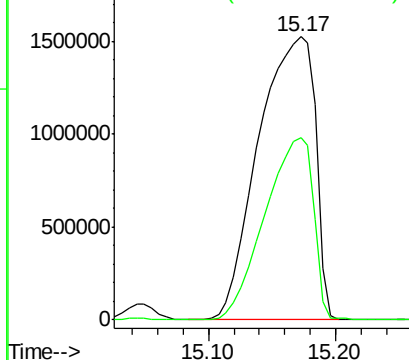


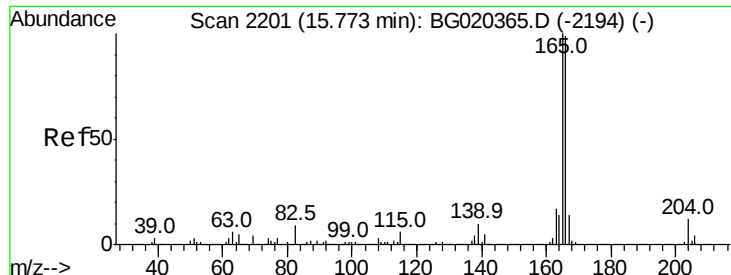
#54
Dibenzofuran
Concen: 547.10 ng/ul
RT: 15.17 min Scan# 2099
Delta R.T. 0.05 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Tgt Ion:168 Resp: 4751413
Ion Ratio Lower Upper
168 100
139 64.5 30.5 45.7#



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





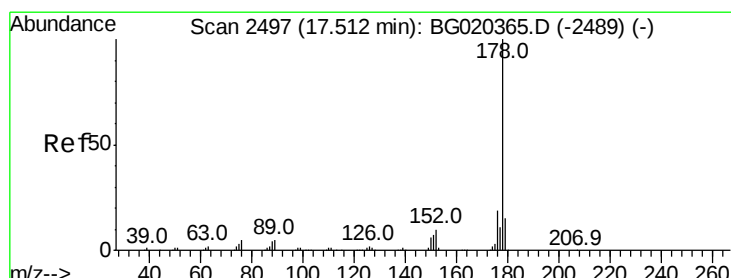
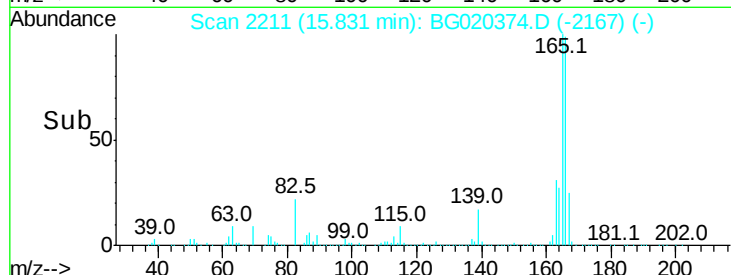
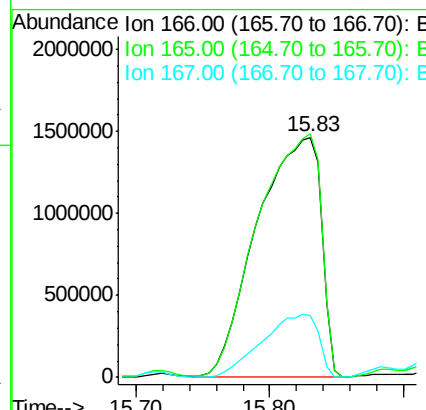
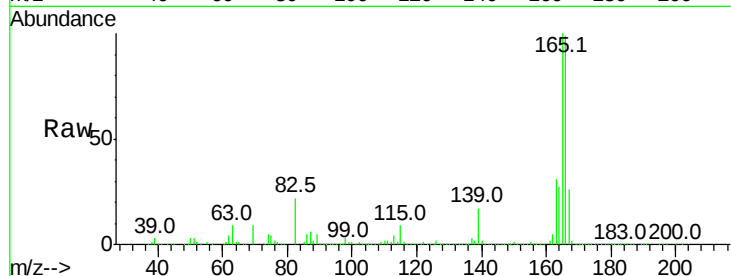
#59
 Fluorene
 Concen: 692.70 ng/ul
 RT: 15.83 min Scan# 2211
 Delta R.T. 0.06 min
 Lab File: BG020374.D
 Acq: 21 Dec 2015 11:35

Instrument :
 BNA_G
 ClientSampleId :
 D9N50

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.3	81.4	122.0
167	25.9	11.2	16.8

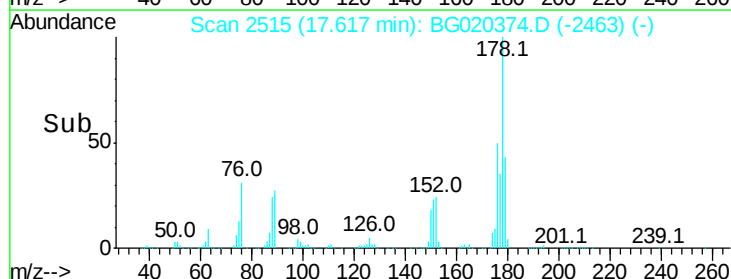
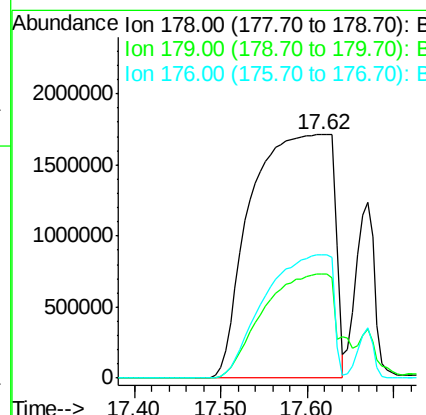
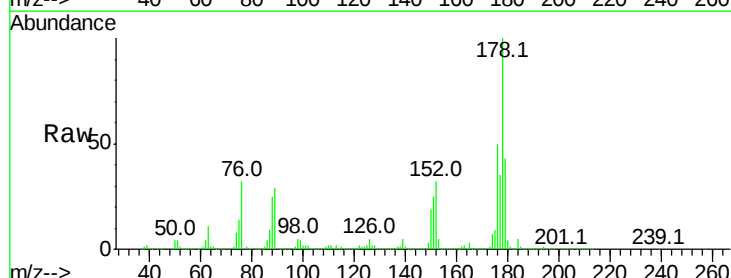
Manual Integrations
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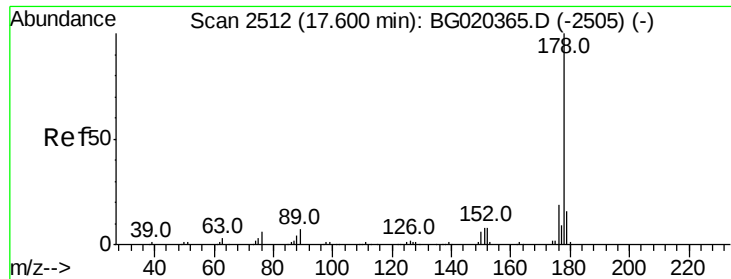
apatel
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#70
 Phenanthrene
 Concen: 1299.30 ng/ul m
 RT: 17.62 min Scan# 2515
 Delta R.T. 0.10 min
 Lab File: BG020374.D
 Acq: 21 Dec 2015 11:35

Tgt Ion	Ratio	Lower	Upper
178	100		
179	42.6	12.9	19.3
176	50.4	15.3	22.9





#72

Anthracene

Concen: 222.83 ng/ul m

RT: 17.67 min Scan# 2524

Delta R.T. 0.07 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

ClientSampleId :

D9N50

Tot Ion:178 Resp: 1952874

Ion Ratio Lower Upper

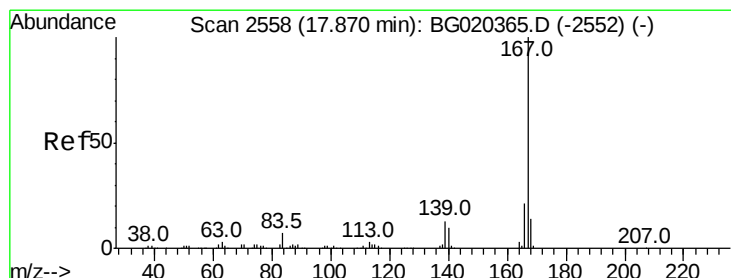
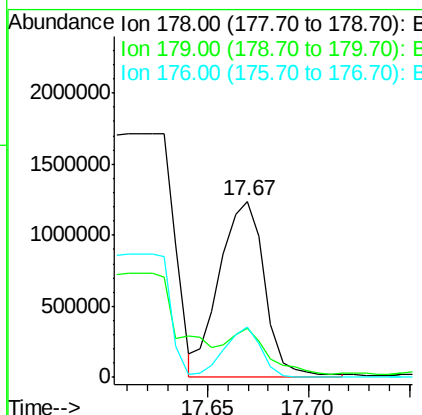
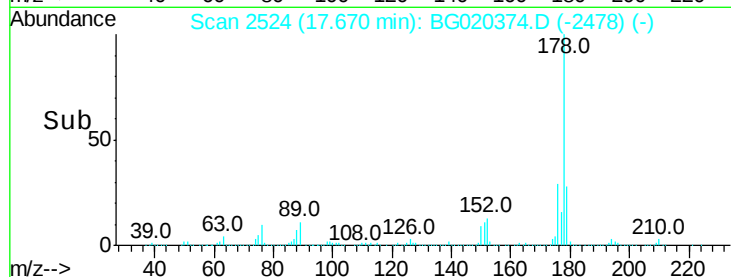
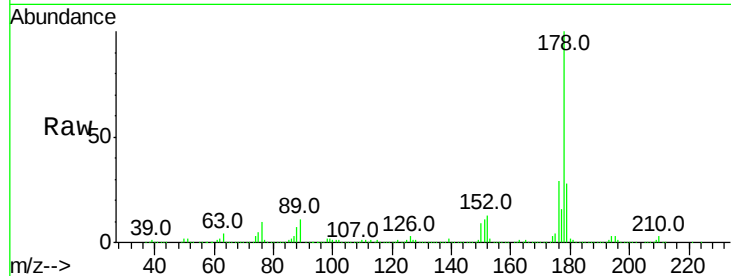
178 100

179 27.8 12.3 18.5#

176 28.6 14.3 21.5#

Manual Integrations
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#75

Carbazole

Concen: 201.19 ng/ul

RT: 17.90 min Scan# 2564

Delta R.T. 0.03 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

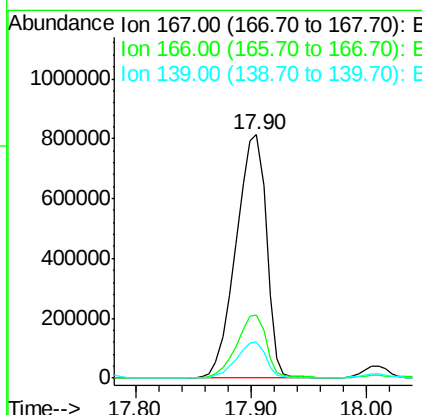
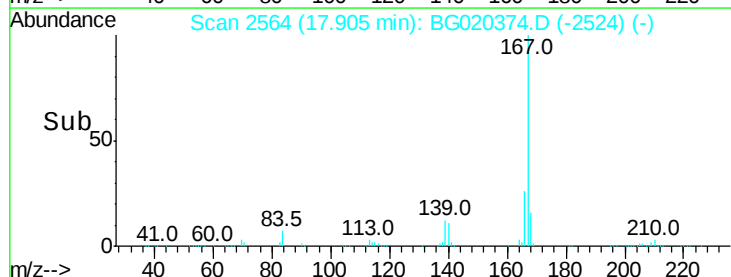
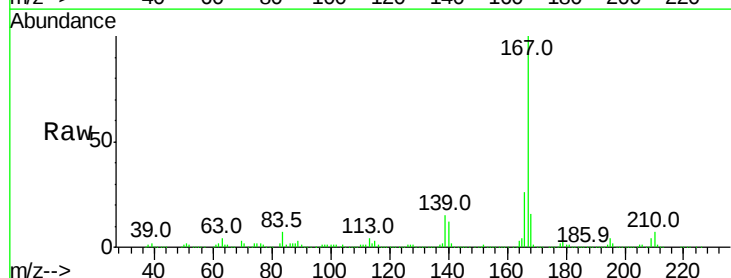
Tgt Ion:167 Resp: 1481506

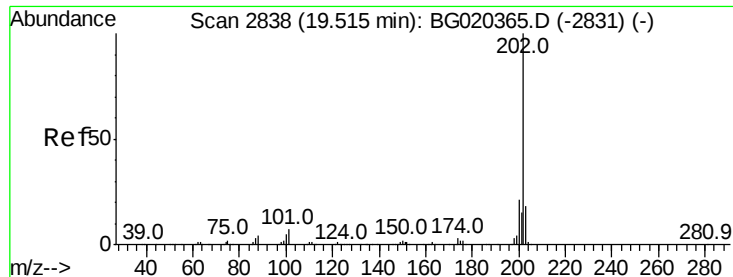
Ion Ratio Lower Upper

167 100

166 26.1 17.0 25.6#

139 15.1 10.1 15.1





#77

Fluoranthene

Concen: 805.73 ng/ul m

RT: 19.60 min Scan# 2852

Delta R.T. 0.08 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

ClientSampleId :

D9N50

Tot Ion:202 Resp: 8136595

Ion Ratio Lower Upper

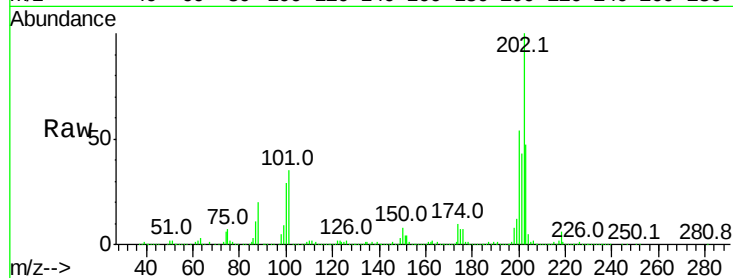
202 100

101 35.4 6.2 9.4#

100 28.8 5.1 7.7#

Manual Integrations
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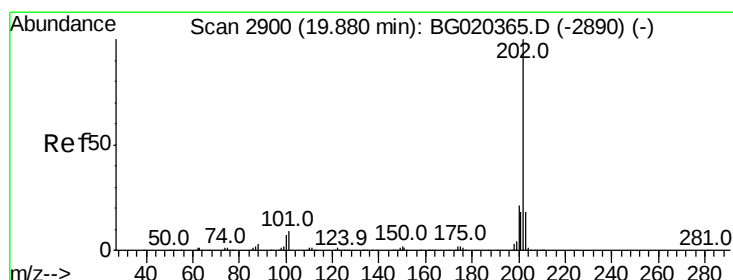
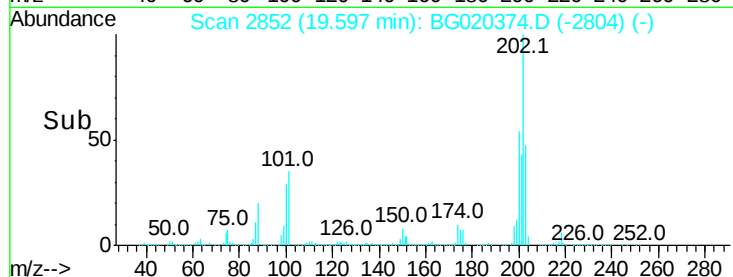
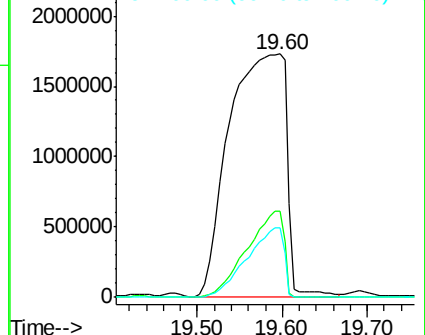
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Pyrene

Concen: 518.64 ng/ul

RT: 19.95 min Scan# 2912

Delta R.T. 0.07 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

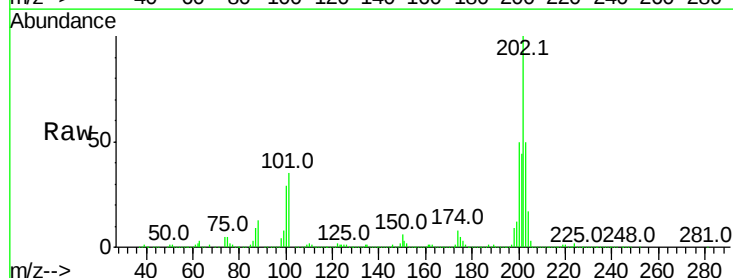
Tgt Ion:202 Resp: 6435167

Ion Ratio Lower Upper

202 100

101 34.7 7.0 10.4#

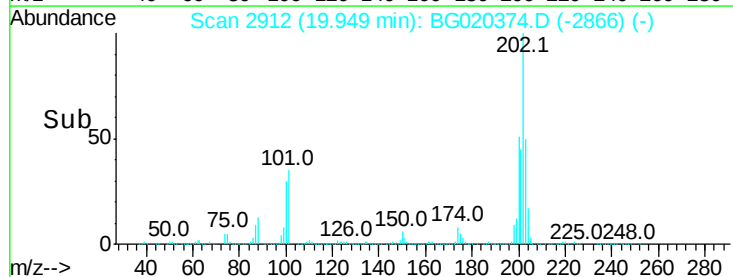
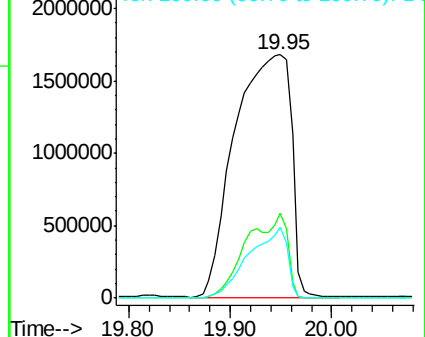
100 29.2 6.4 9.6#

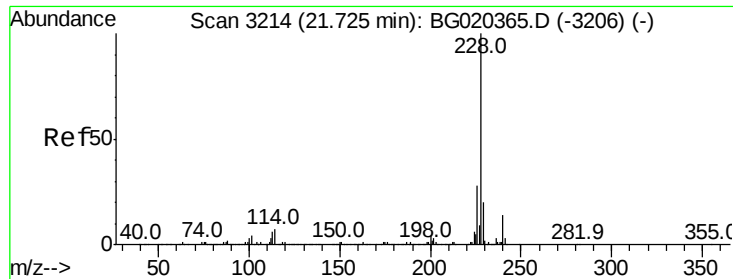


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





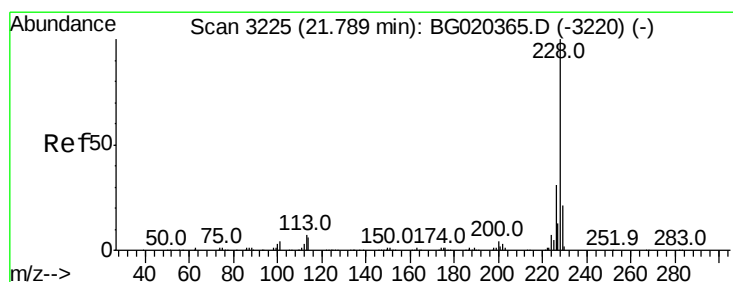
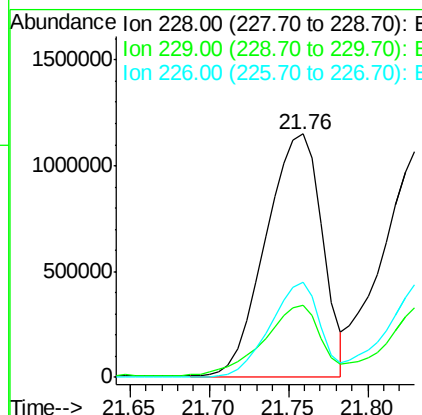
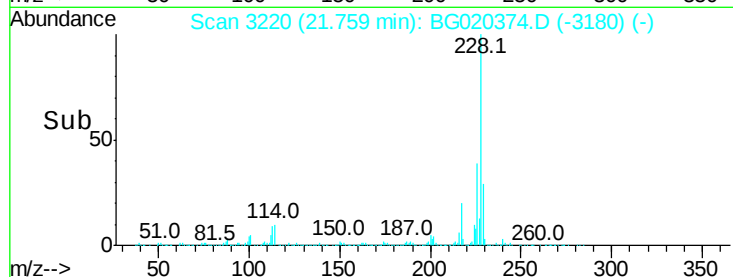
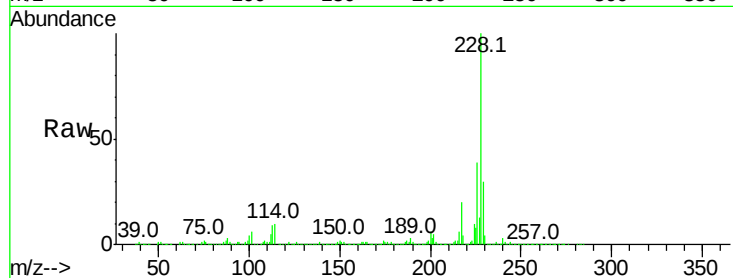
#83
Benzo(a)anthracene
Concen: 236.79 ng/ul
RT: 21.76 min Scan# 3220
Delta R.T. 0.03 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Instrument :
BNA_G
ClientSampleId :
D9N50

Tot Ion	Ratio	Lower	Upper
228	100		
229	29.6	15.8	23.8#
226	39.3	21.8	32.6#

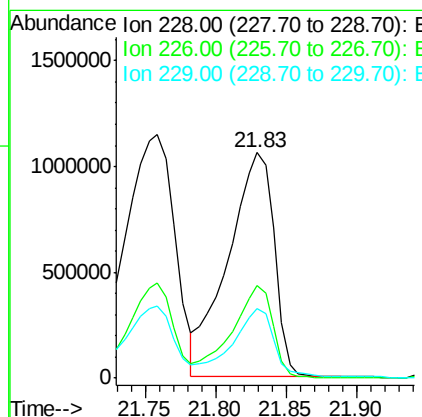
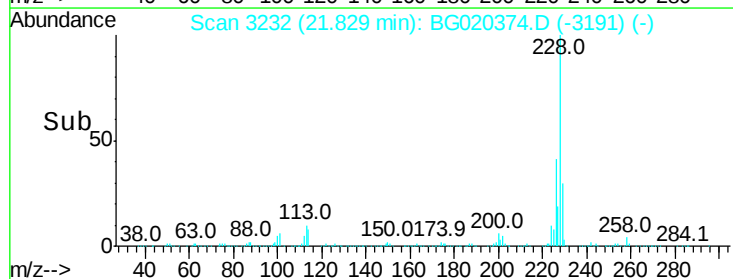
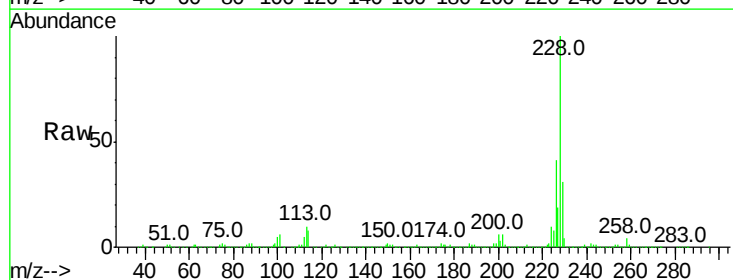
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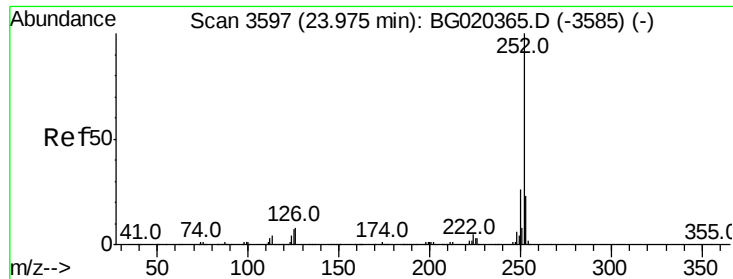
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#85
Chrysene
Concen: 216.01 ng/ul
RT: 21.83 min Scan# 3232
Delta R.T. 0.04 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	41.0	23.9	35.9#
229	30.6	15.6	23.4#





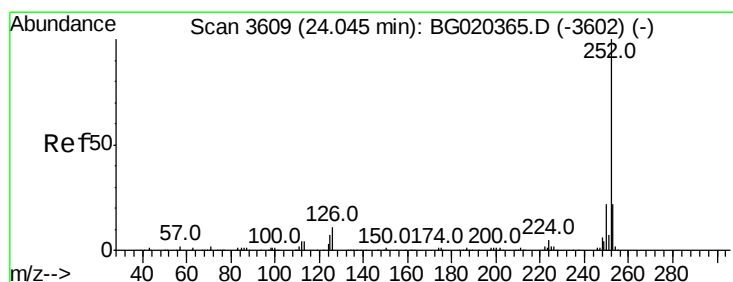
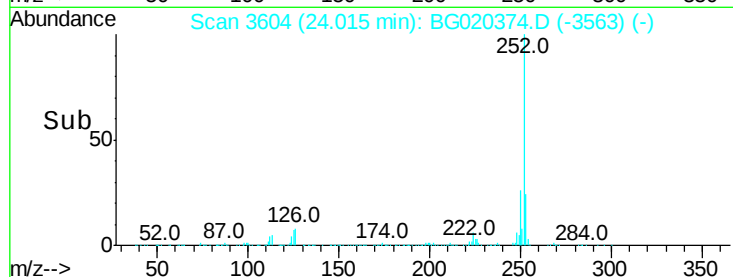
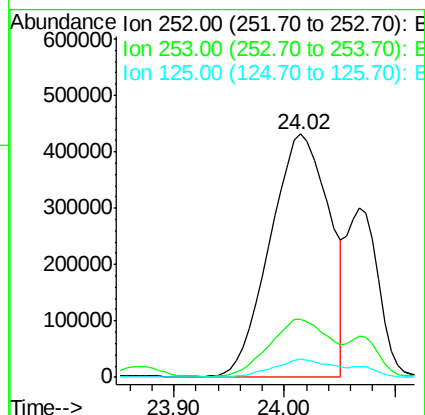
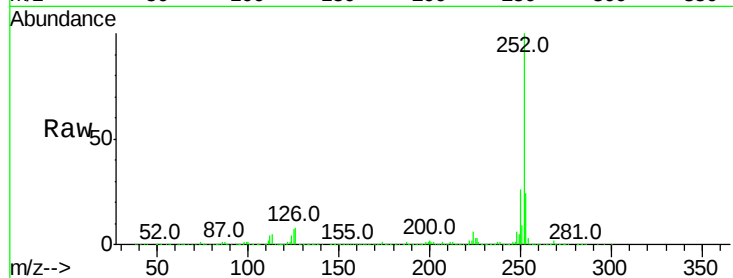
#88
Benzo(b)fluoranthene
Concen: 135.59 ng/ul
RT: 24.02 min Scan# 3604
Delta R.T. 0.04 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Instrument :
BNA_G
ClientSampleId :
D9N50

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	16.7	25.1
125	7.4	6.2	9.2

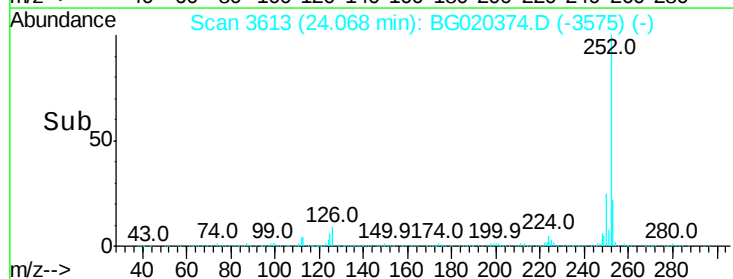
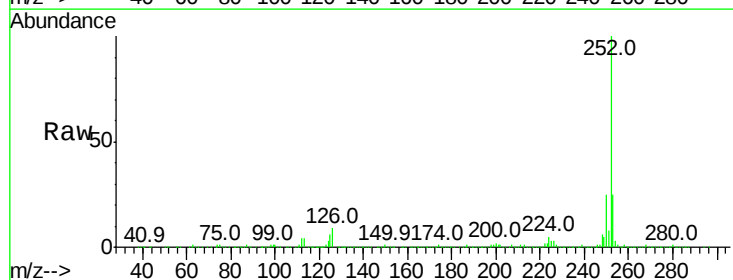
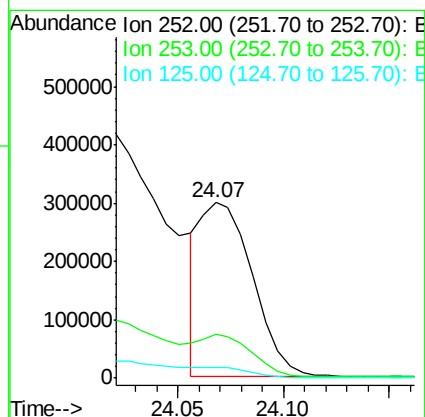
Manual Integrations
APPROVED

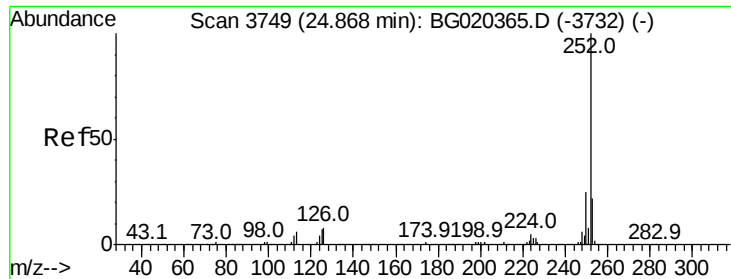
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#89
Benzo(k)fluoranthene
Concen: 44.85 ng/ul
RT: 24.07 min Scan# 3613
Delta R.T. 0.02 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	6.4	5.8	8.6





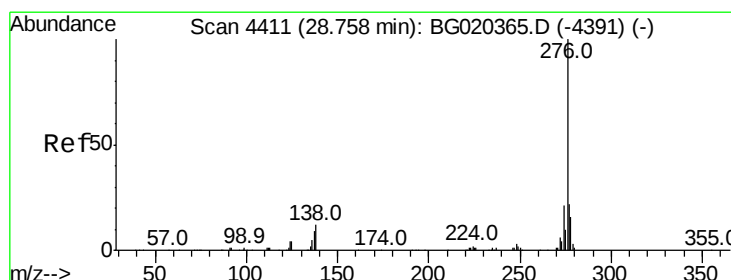
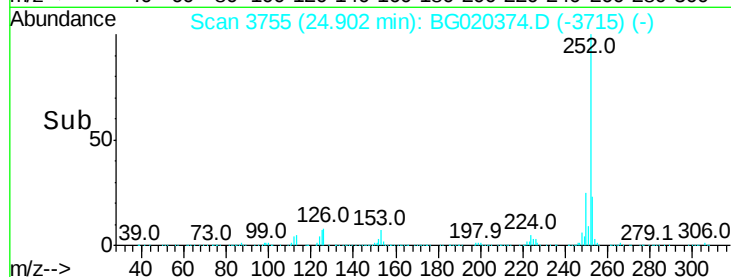
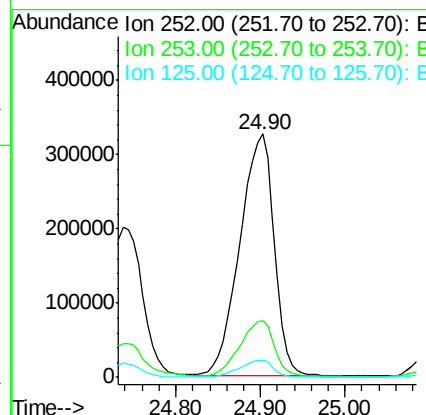
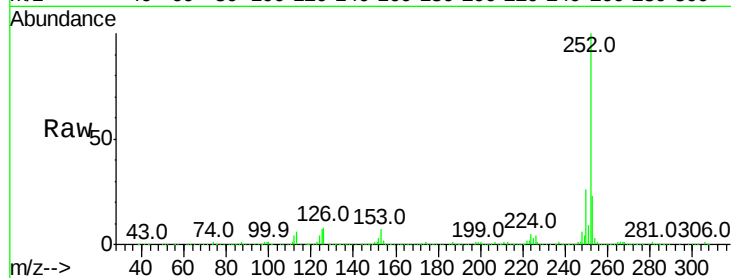
#91
Benzo(a)pyrene
Concen: 82.20 ng/ul
RT: 24.90 min Scan# 3755
Delta R.T. 0.03 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Instrument :
BNA_G
ClientSampleId :
D9N50

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.3	17.0	25.4
125	6.9	6.2	9.4

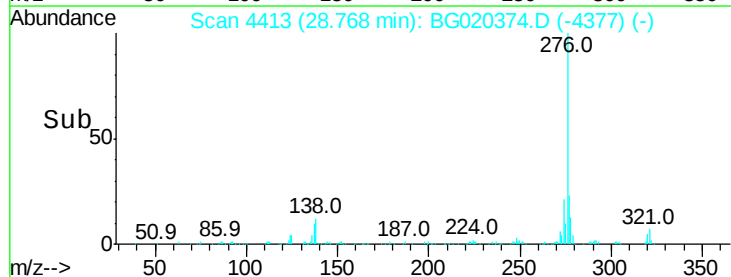
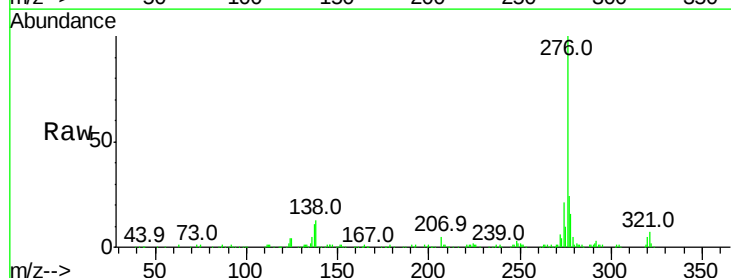
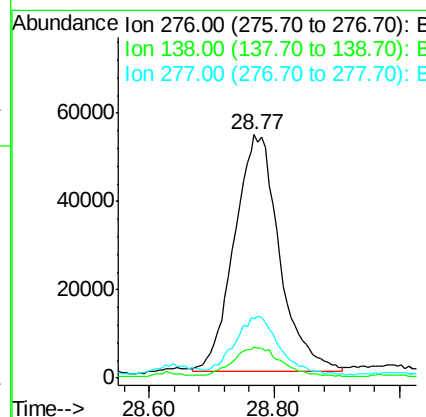
Manual Integrations
APPROVED

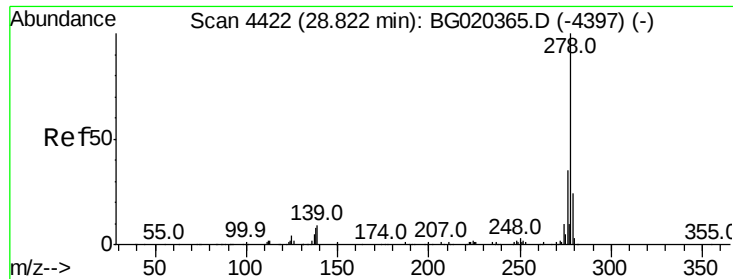
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#92
Indeno(1,2,3-cd)pyrene
Concen: 20.23 ng/ul m
RT: 28.77 min Scan# 4413
Delta R.T. 0.01 min
Lab File: BG020374.D
Acq: 21 Dec 2015 11:35

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	12.7	11.4	17.0
277	24.4	17.4	26.0





#93

Dibenzo(a,h)anthracene

Concen: 6.80 ng/ul

RT: 28.81 min Scan# 4420

Delta R.T. -0.01 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Instrument :

BNA_G

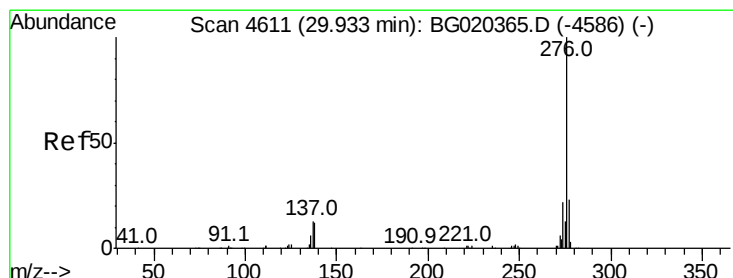
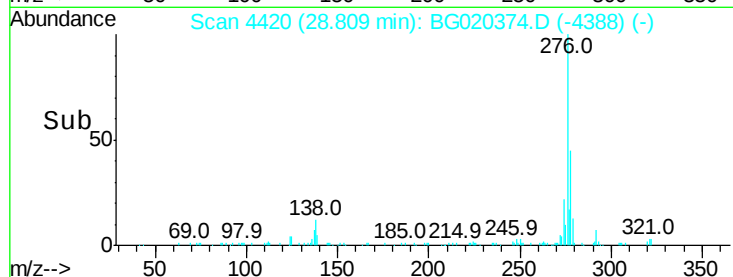
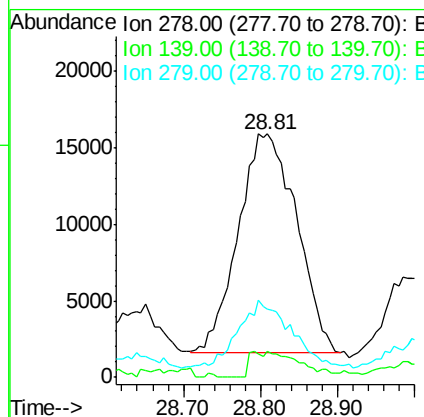
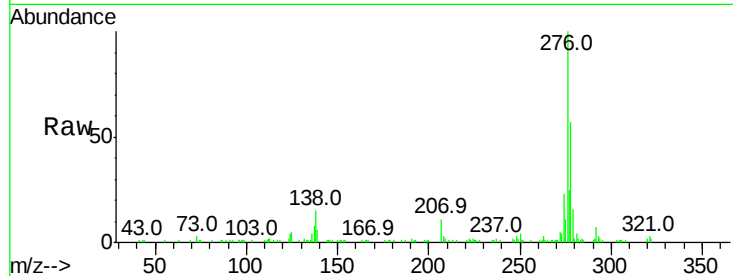
ClientSampleId :

D9N50

Tot Ion:	278	Resp:	75152
Ion Ratio	Lower	Upper	
278	100		
139	10.8	9.4	14.2
279	28.0	19.4	29.0

Manual Integrations
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#94

Benzo(g,h,i)perylene

Concen: 16.97 ng/ul

RT: 29.94 min Scan# 4612

Delta R.T. 0.00 min

Lab File: BG020374.D

Acq: 21 Dec 2015 11:35

Tgt Ion:	276	Resp:	185151
Ion Ratio	Lower	Upper	
276	100		
138	12.4	10.8	16.2
277	23.9	19.9	29.9

