

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051116\
 Data File : BG021860.D
 Acq On : 12 May 2016 1:41
 Operator : UM/SJ
 Sample : H2936-06MSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9WF4MSD

Manual Integrations
 APPROVED

sohil
 5/12/2016 7:26:57 PM

Quant Time: May 12 09:26:08 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu May 12 07:33:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.19	152	74768	20.00	ng/ul	0.00
18) Naphthalene-d8	11.01	136	360518	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.80	164	205714	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.55	188	435169	20.00	ng/ul	0.00
76) Chrysene-d12	21.83	240	424593	20.00	ng/ul	0.00
84) Perylene-d12	25.18	264	428145	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.57	96	4387	2.83	ng/uL	0.00
5) Phenol-d5	7.33	99	90365	16.29	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.50	67	48009	17.45	ng/ul	0.00
9) 2-Chlorophenol-d4	7.71	132	88488	20.55	ng/ul	0.00
13) 4-Methylphenol-d8	8.88	113	61434	13.18	ng/ul	0.00
19) Nitrobenzene-d5	9.35	128	44813	18.91	ng/ul	0.00
22) 2-Nitrophenol-d4	10.08	143	46508	31.07	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.62	165	82400	19.47	ng/ul	0.00
29) 4-Chloroaniline-d4	11.13	131	48553	10.65	ng/ul	0.00
44) Dimethylphthalate-d6	14.20	166	265812	18.40	ng/ul	0.00
47) Acenaphthylene-d8	14.50	160	362963	17.69	ng/ul	0.00
52) 4-Nitrophenol-d4	15.00	143	29091	11.75	ng/ul	0.00
58) Fluorene-d10	15.79	176	244566	16.08	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.91	200	28086	23.30	ng/ul	0.00
71) Anthracene-d10	17.65	188	344296	16.25	ng/ul	0.00
77) Pyrene-d10	19.92	212	370533	18.64	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.95	264	343941	16.91	ng/ul	0.02

Target Compounds

					Ovalue	
6) Phenol	7.36	94	91658	15.53	ng/ul#	70
10) 2-Chlorophenol	7.74	128	83983	19.34	ng/ul#	77
15) N-Nitroso-di-n-propylamine	8.98	70	57042	16.45	ng/ul#	74
33) 4-Chloro-3-methylphenol	12.26	107	76107	17.45	ng/ul#	67
45) Dimethylphthalate	14.25	163	46938	3.19	ng/ul	96
50) Acenaphthene	14.87	153	247849	16.97	ng/ul	96
53) 4-Nitrophenol	15.01	109	13836m	12.26	ng/ul	
55) 2,4-Dinitrotoluene	15.16	165	71834	17.86	ng/ul#	55
69) Pentachlorophenol	17.19	266	47593	23.73	ng/ul	92
70) Phenanthrene	17.59	178	42156	1.77	ng/ul	96
75) Fluoranthene	19.59	202	91844	3.40	ng/ul#	95
78) Pyrene	19.95	202	538969m	21.94	ng/ul	
79) Butylbenzylphthalate	20.82	149	9015	1.66	ng/ul#	86
81) Benzo(a)anthracene	21.82	228	52929	2.24	ng/ul	95
82) Bis(2-ethylhexyl)phthalate	21.70	149	49401	5.57	ng/ul	95
83) Chrysene	21.88	228	64633m	2.77	ng/ul	
86) Benzo(b)fluoranthene	24.12	252	114953	4.69	ng/ul#	93
87) Benzo(k)fluoranthene	24.17	252	32489m	1.24	ng/ul	
89) Benzo(a)pyrene	25.02	252	64701	2.65	ng/ul#	94
90) Indeno(1,2,3-cd)pyrene	29.01	276	46800	1.62	ng/ul#	92
92) Benzo(a,h,i)perylene	30.21	276	40115m	1.68	ng/ul	

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051116\
Data File : BG021860.D
Acq On : 12 May 2016 1:41
Operator : UM/SJ
Sample : H2936-06MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM

Quant Time: May 12 09:26:08 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu May 12 07:33:29 2016
Response via : Initial Calibration

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

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

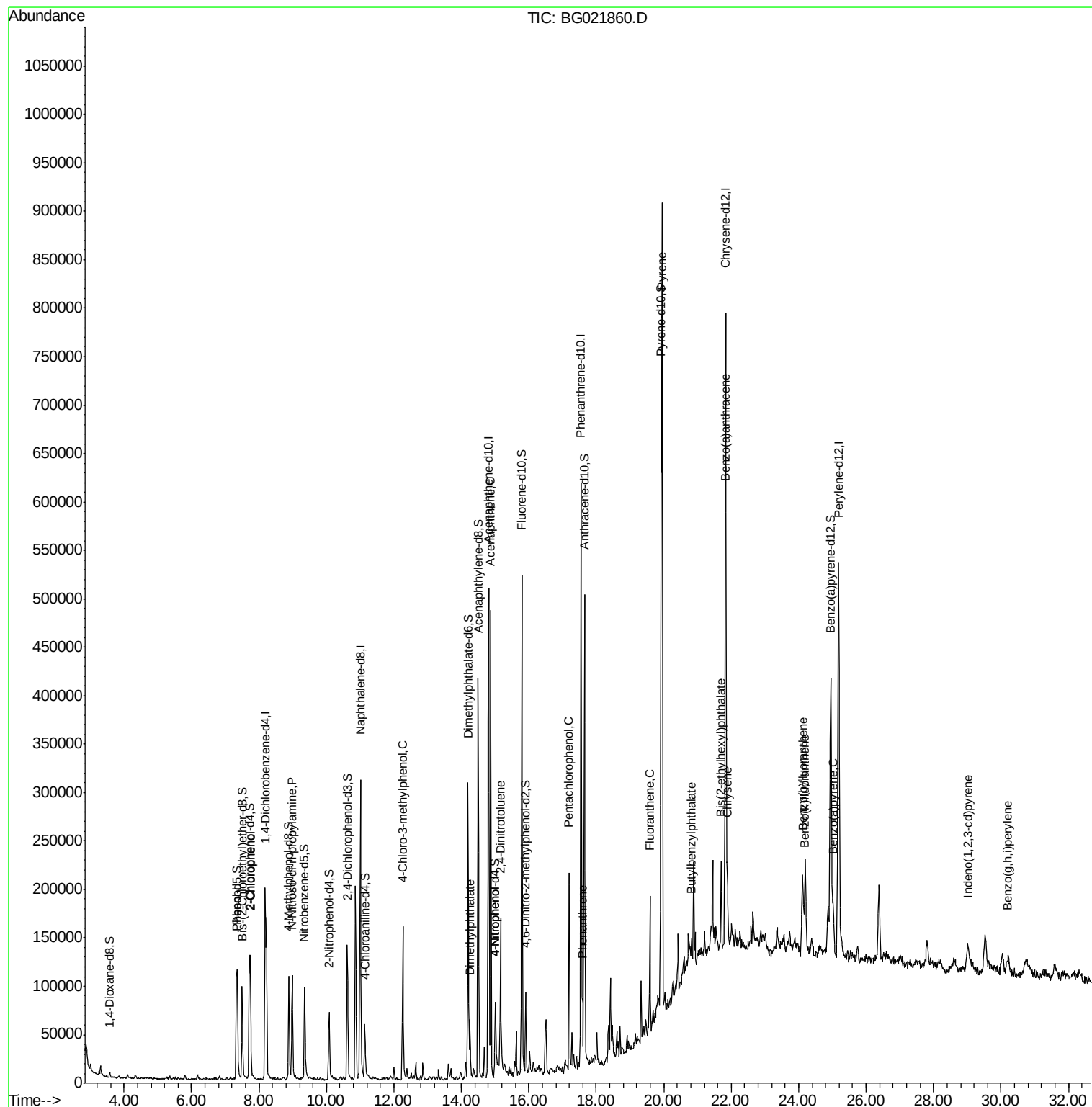
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051116\
 Data File : BG021860.D
 Acq On : 12 May 2016 1:41
 Operator : UM/SJ
 Sample : H2936-06MSD
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

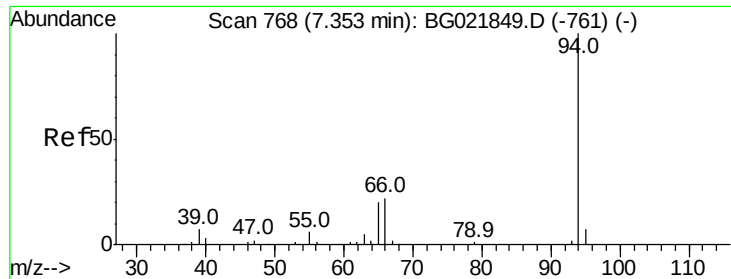
Instrument :
 BNA_G
 ClientSampleID :
 D9WF4MSD

Manual Integrations
 APPROVED

sohil
 5/12/2016 7:26:57 PM

Quant Time: May 12 09:26:08 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu May 12 07:33:29 2016
 Response via : Initial Calibration





#6

Phenol

Concen: 15.53 ng/ul

RT: 7.36 min Scan# 769

Delta R.T. 0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Instrument :

BNA_G

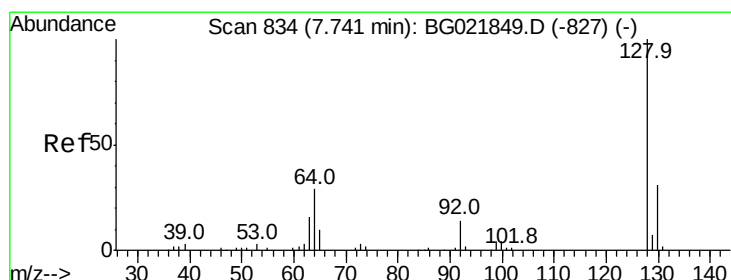
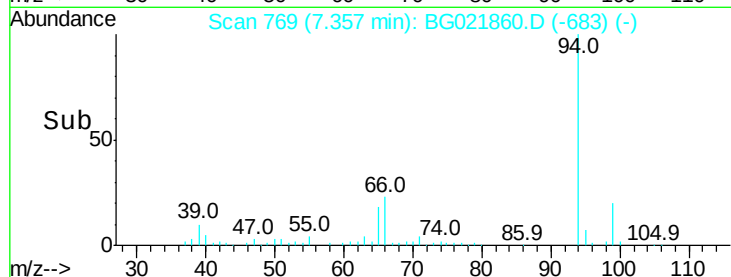
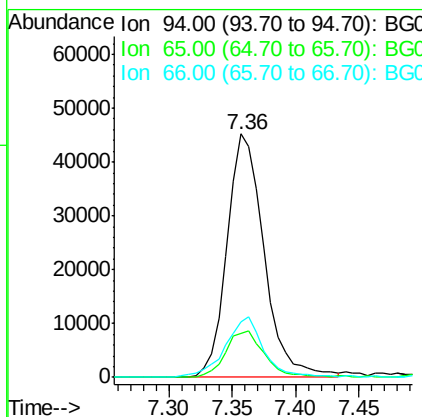
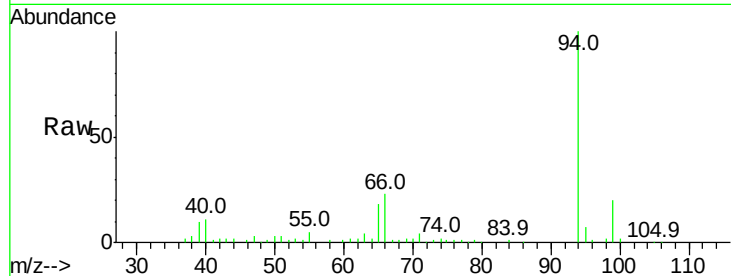
ClientSampleId :

D9WF4MSD

Tot Ion:	94	Resp:	91658
Ion Ratio	Lower	Upper	
94	100		
65	17.9	26.1	39.1#
66	22.9	35.0	52.4#

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM



#10

2-Chlorophenol

Concen: 19.34 ng/ul

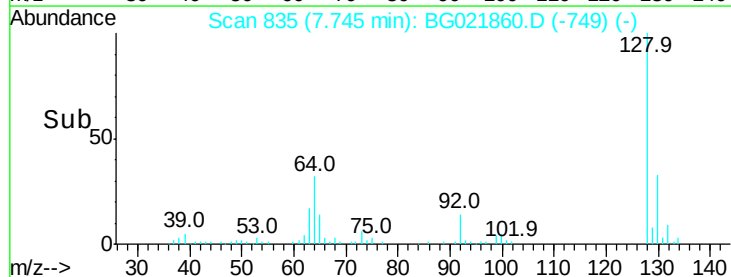
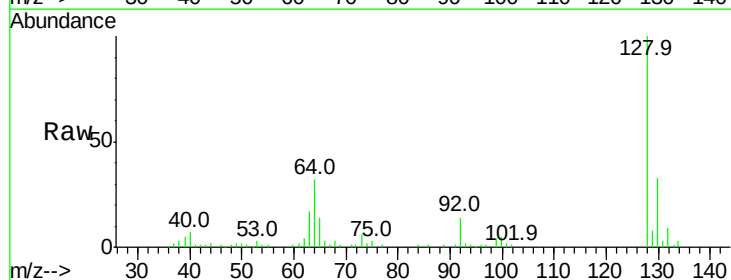
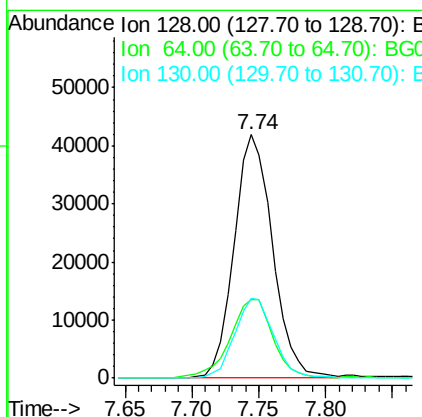
RT: 7.74 min Scan# 835

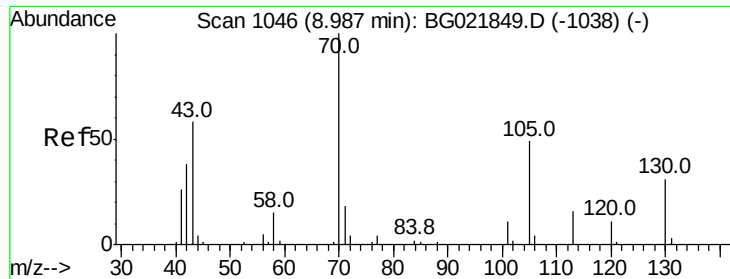
Delta R.T. 0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Tgt Ion:	128	Resp:	83983
Ion Ratio	Lower	Upper	
128	100		
64	32.5	47.0	70.6#
130	32.8	27.8	41.6





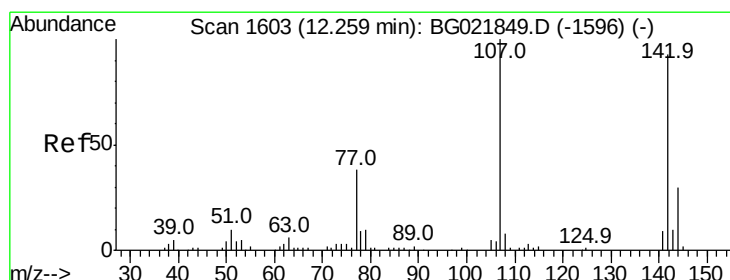
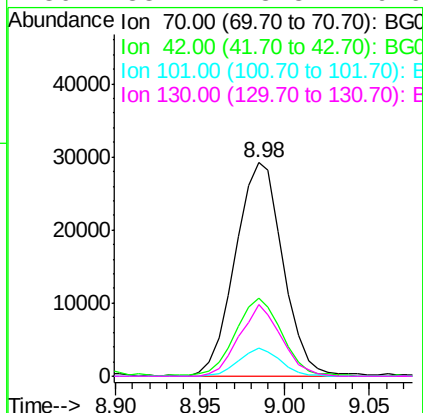
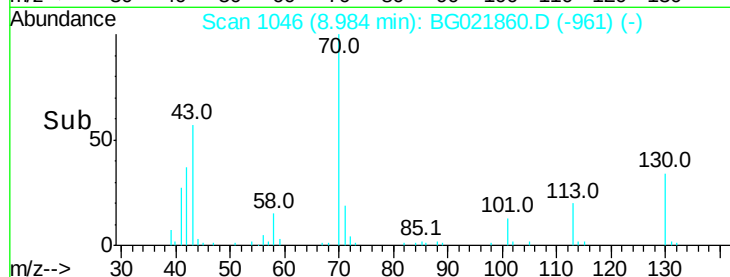
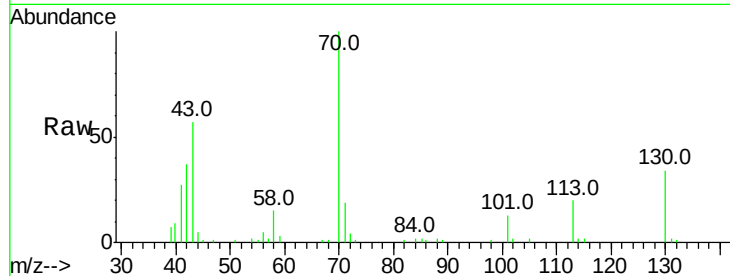
#15
N-Nitroso-di-n-propylamine
Concen: 16.45 ng/ul
RT: 8.98 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Tot Ion	Ion	Ratio	Lower	Upper
70	100			
42	36.9	43.4	65.0#	
101	13.0	6.5	9.7#	
130	33.7	13.8	20.6#	

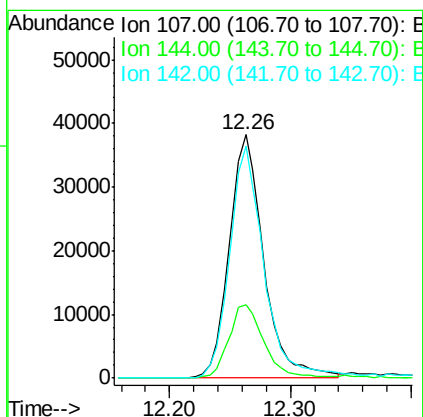
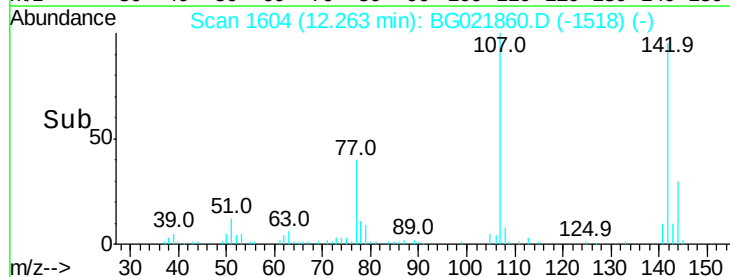
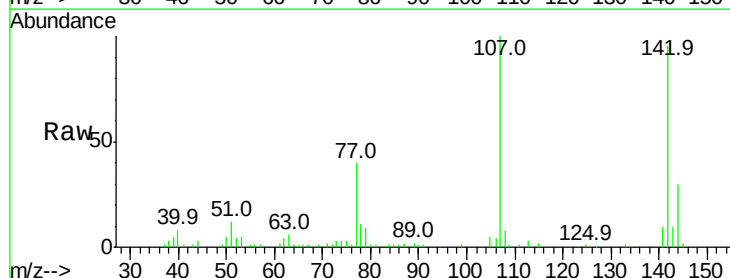
Manual Integrations
APPROVED

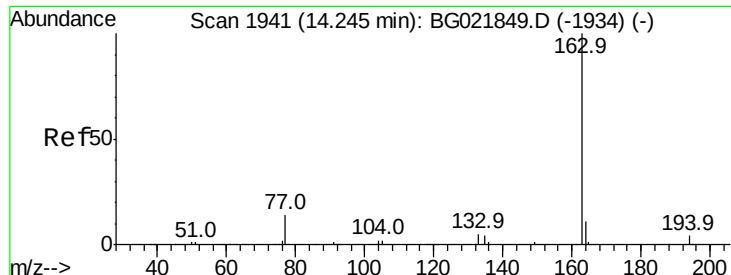
sohil
5/12/2016 7:26:57 PM



#33
4-Chloro-3-methylphenol
Concen: 17.45 ng/ul
RT: 12.26 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
144	29.9	17.2	25.8#	
142	95.1	52.0	78.0#	





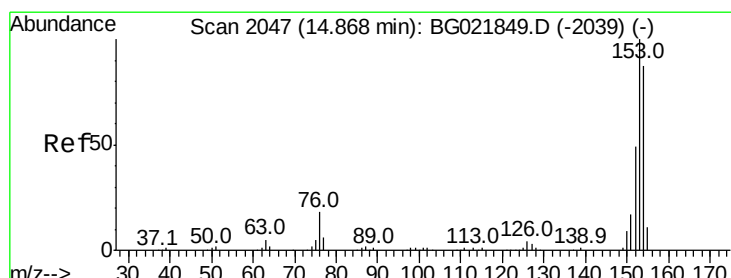
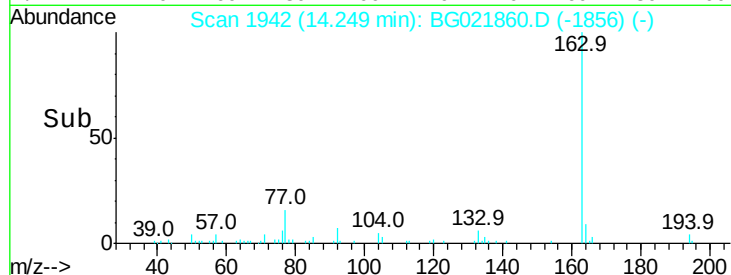
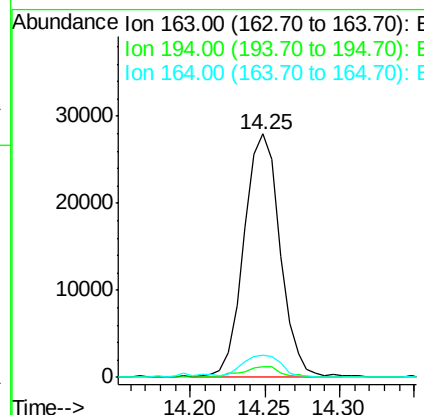
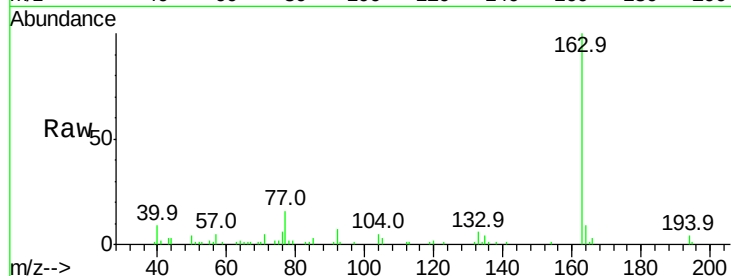
#45
Dimethylphthalate
Concen: 3.19 ng/ul
RT: 14.25 min Scan# 1942
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Tot Ion	Ratio	Resp	Lower	Upper
163	100	46938		
194	4.2		3.9	5.9
164	9.0		8.7	13.1

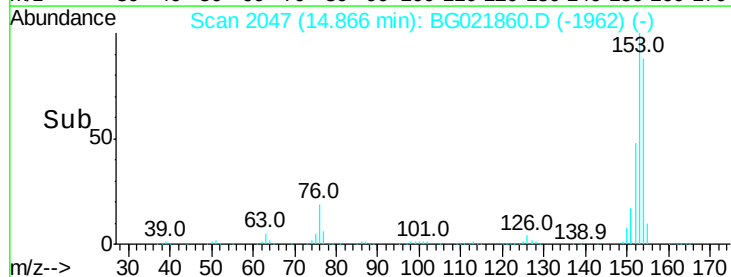
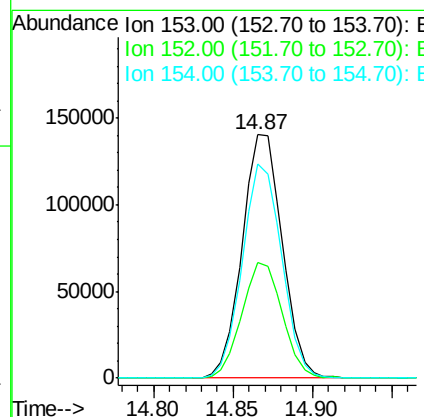
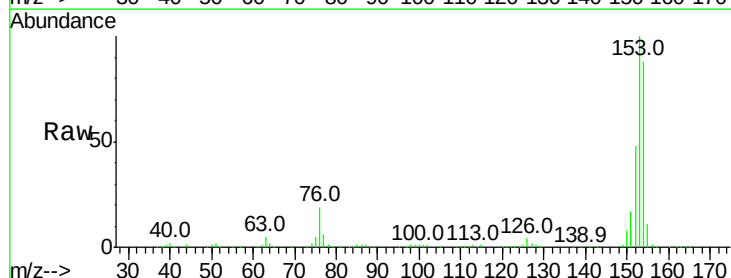
Manual Integrations
APPROVED

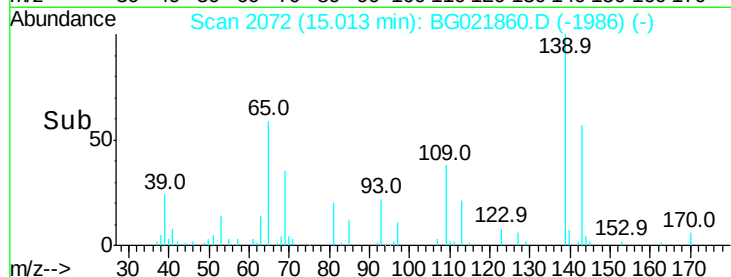
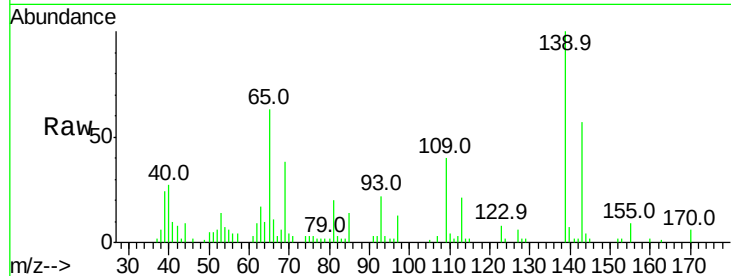
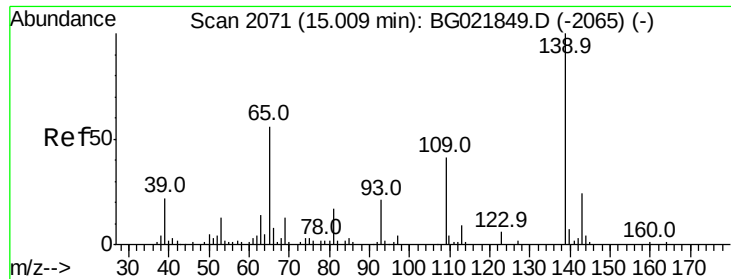
sohil
5/12/2016 7:26:57 PM



#50
Acenaphthene
Concen: 16.97 ng/ul
RT: 14.87 min Scan# 2047
Delta R.T. -0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	247849		
152	47.7		36.5	54.7
154	87.8		67.3	100.9





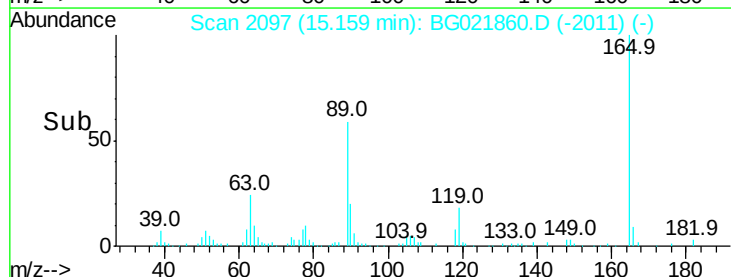
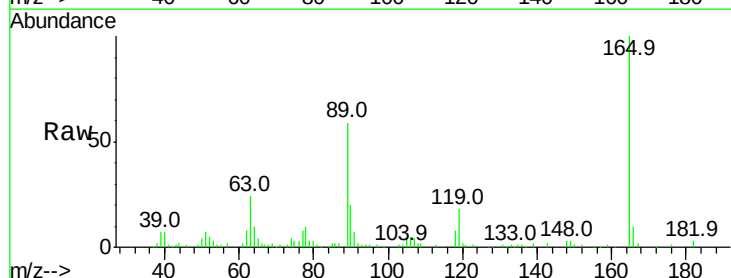
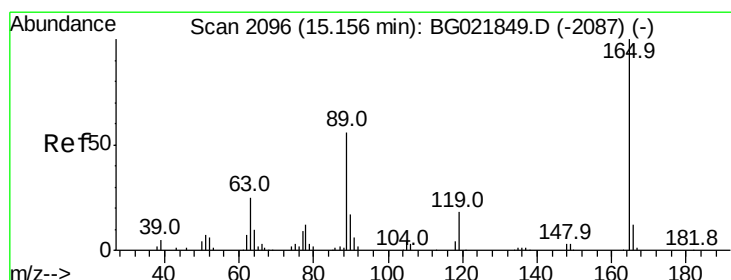
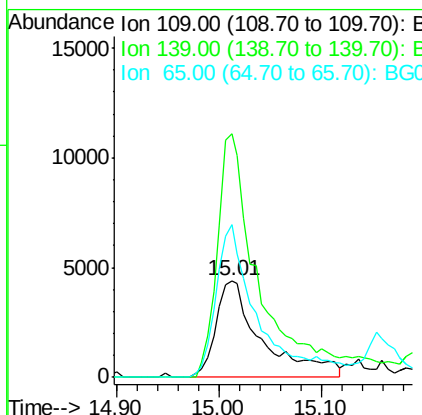
#53
4-Nitrophenol
Concen: 12.26 ng/ul m
RT: 15.01 min Scan# 2072
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampled :
D9WF4MSD

Tot Ion	Ratio	Resp	Lower	Upper
109	100			
139	251.1	75.9	113.9#	
65	157.4	99.8	149.8#	

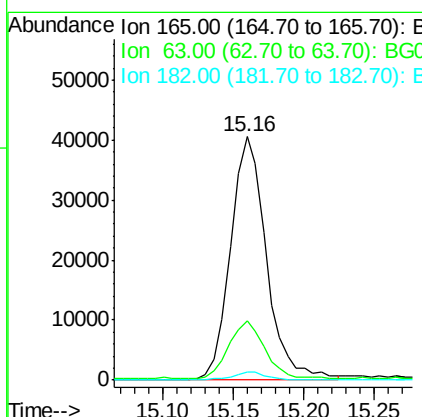
Manual Integrations
APPROVED

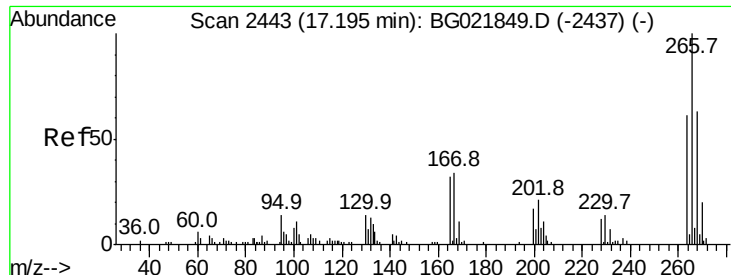
sohil
5/12/2016 7:26:57 PM



#55
2,4-Dinitrotoluene
Concen: 17.86 ng/ul
RT: 15.16 min Scan# 2097
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
165	100			
63	24.4	48.1	72.1#	
182	3.1	2.2	3.2	





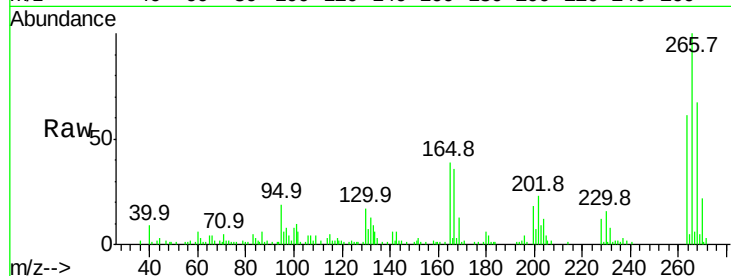
#69
 Pentachlorophenol
 Concen: 23.73 ng/ul
 RT: 17.19 min Scan# 2443
 Delta R.T. -0.00 min
 Lab File: BG021860.D
 Acq: 12 May 2016 1:41

Instrument :
 BNA_G
 ClientSampleId :
 D9WF4MSD

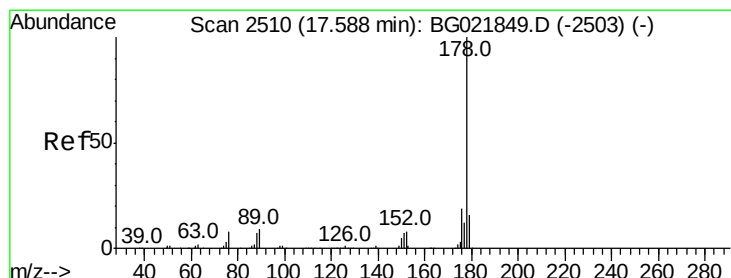
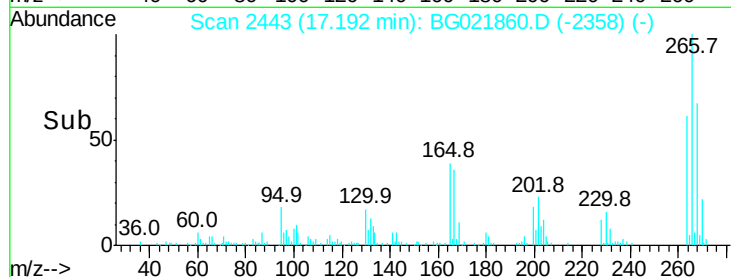
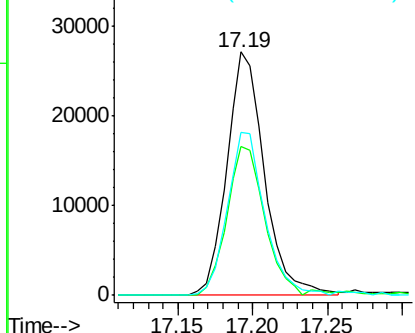
Tot Ion:	266	Resp:	47593
Ion Ratio	Lower	Upper	
266	100		
264	66.2	56.7	85.1
268	71.4	50.6	76.0

Manual Integrations
 APPROVED

sohil
 5/12/2016 7:26:57 PM

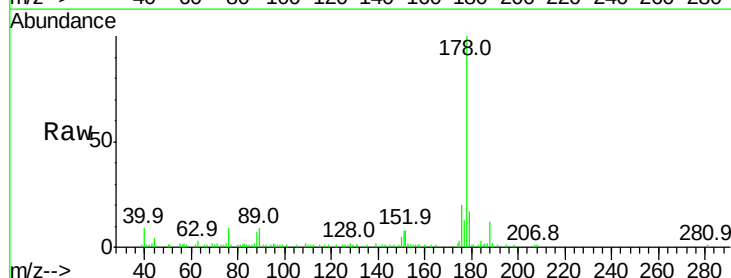


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 264.00 (263.70 to 264.70): E
 Ion 268.00 (267.70 to 268.70): E

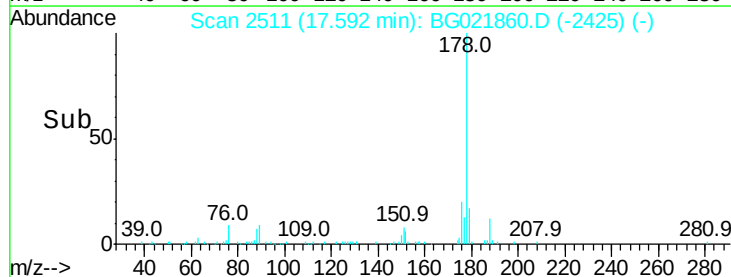
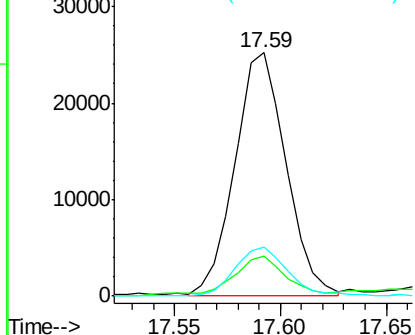


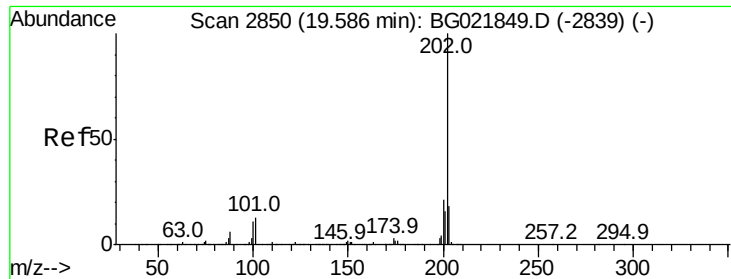
#70
 Phenanthrene
 Concen: 1.77 ng/ul
 RT: 17.59 min Scan# 2511
 Delta R.T. 0.00 min
 Lab File: BG021860.D
 Acq: 12 May 2016 1:41

Tgt Ion:	178	Resp:	42156
Ion Ratio	Lower	Upper	
178	100		
179	16.7	11.8	17.8
176	20.2	14.8	22.2



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

Fluoranthene

Concen: 3.40 ng/ul

RT: 19.59 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Instrument :

BNA_G

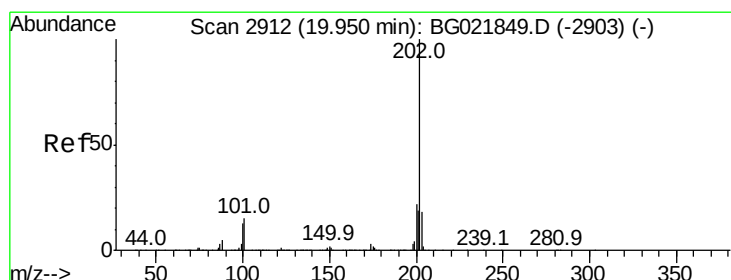
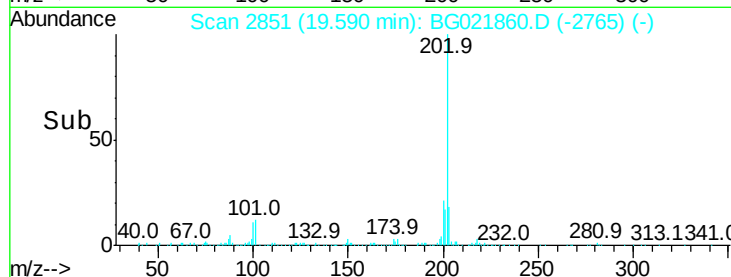
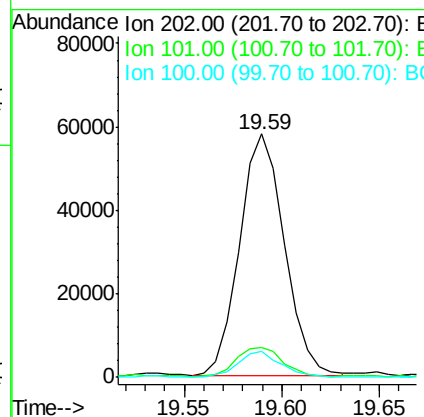
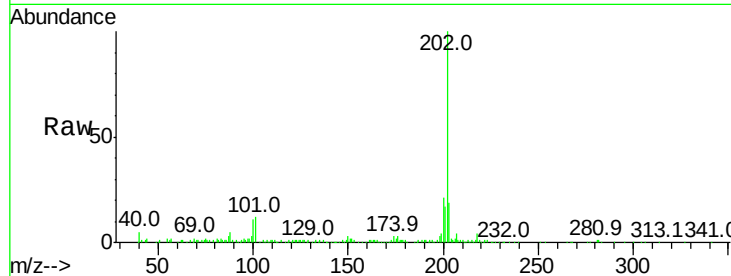
ClientSampleId :

D9WF4MSD

Tot Ion:	202	Resp:	91844
Ion Ratio	Lower	Upper	
202	100		
101	12.4	8.9	13.3
100	10.8	7.0	10.4

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM



#78

Pyrene

Concen: 21.94 ng/ul m

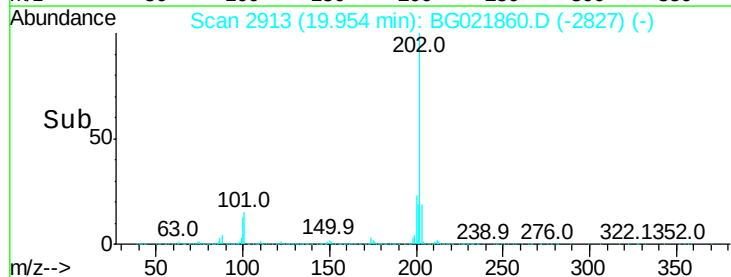
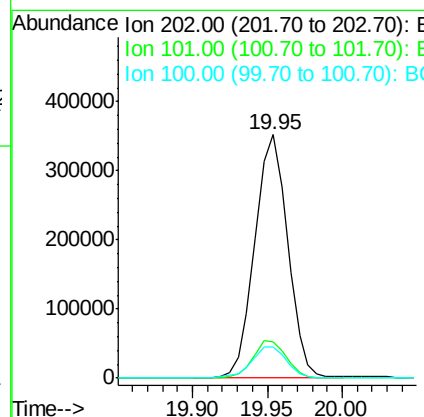
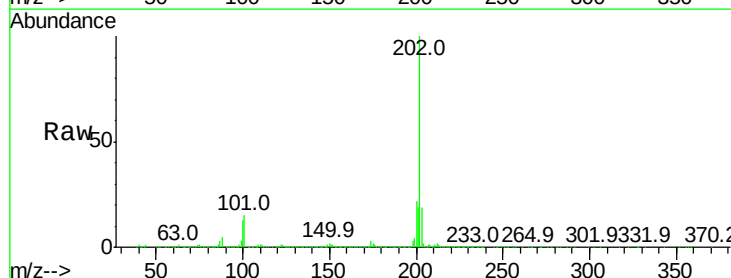
RT: 19.95 min Scan# 2913

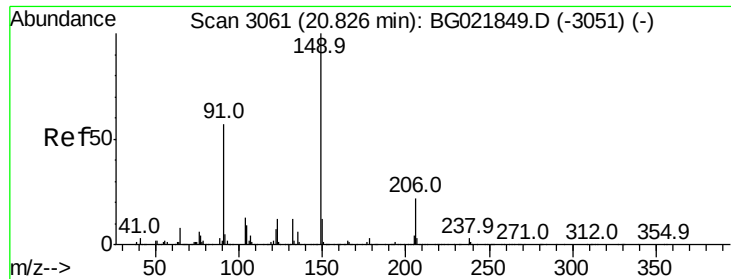
Delta R.T. 0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Tgt Ion:	202	Resp:	538969
Ion Ratio	Lower	Upper	
202	100		
101	15.2	9.8	14.8
100	12.9	9.3	13.9





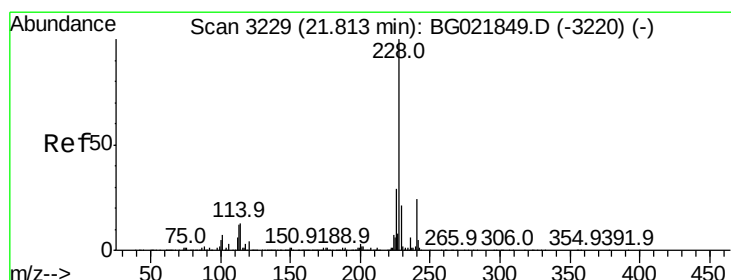
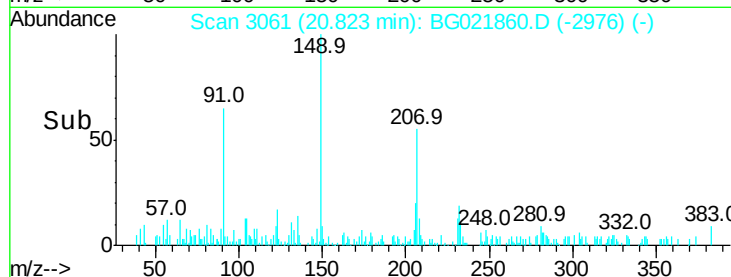
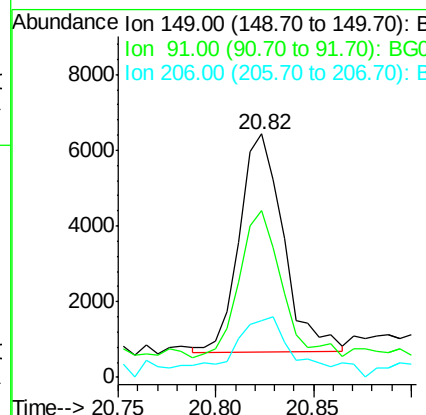
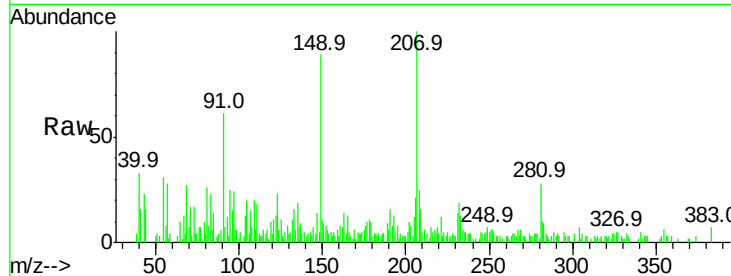
#79
Butylbenzylphthalate
Concen: 1.66 ng/ul
RT: 20.82 min Scan# 3061
Delta R.T. -0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Tot Ion	Ratio	Resp	Lower	Upper
149	100	9015		
91	68.5	65.8	98.8	
206	23.5	15.5	23.3	

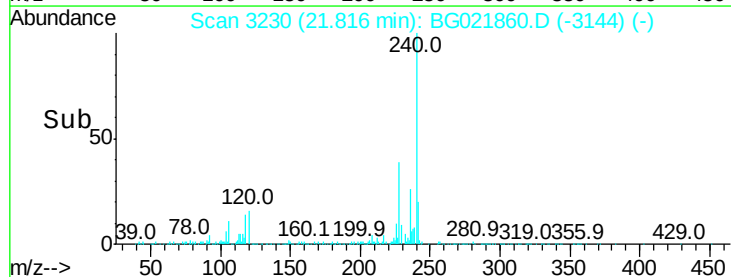
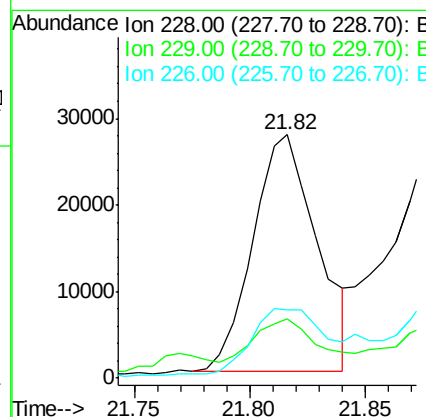
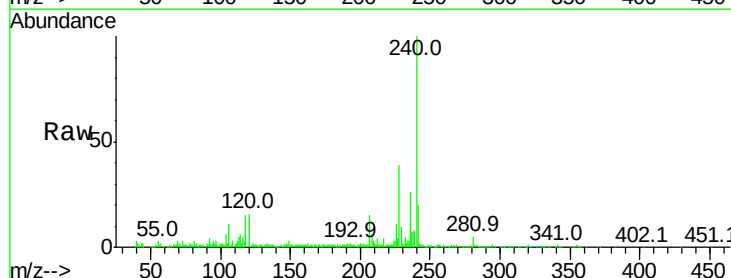
Manual Integrations
APPROVED

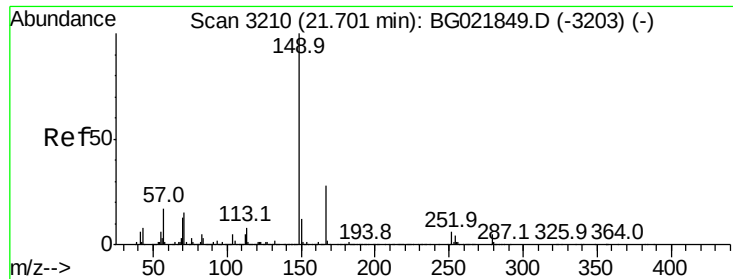
sohil
5/12/2016 7:26:57 PM



#81
Benzo(a)anthracene
Concen: 2.24 ng/ul
RT: 21.82 min Scan# 3230
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	52929		
229	24.4	16.6	25.0	
226	27.8	21.0	31.4	





#82

Bis(2-ethylhexyl)phthalate

Concen: 5.57 ng/ul

RT: 21.70 min Scan# 3210

Delta R.T. -0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Instrument :

BNA_G

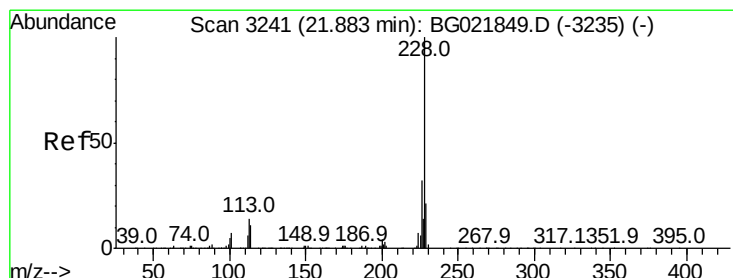
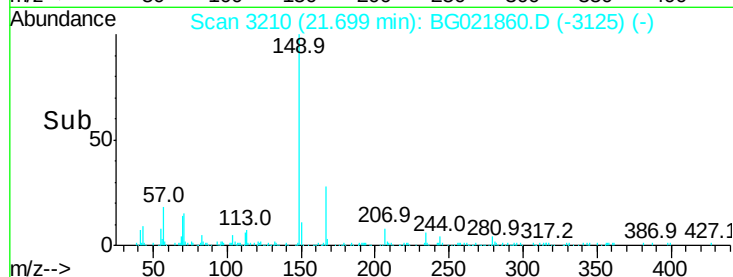
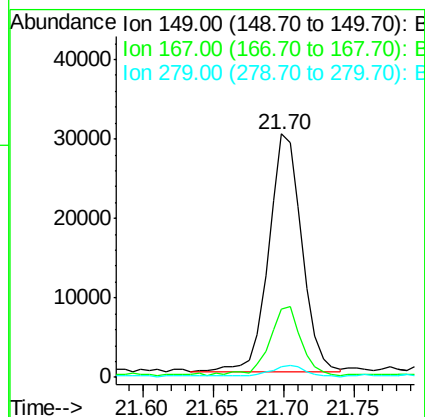
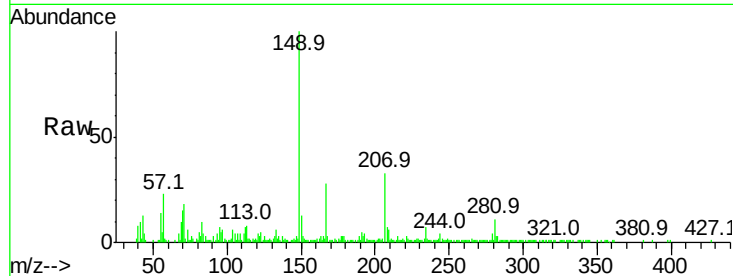
ClientSampleId :

D9WF4MSD

Tot Ion:	149	Resp:	49401
Ion Ratio	Lower	Upper	
149	100		
167	28.3	20.5	30.7
279	4.3	3.7	5.5

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM



#83

Chrysene

Concen: 2.77 ng/ul m

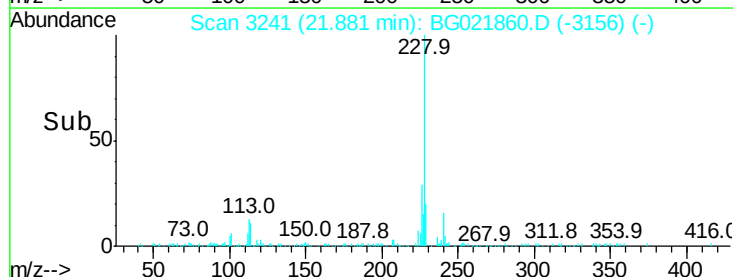
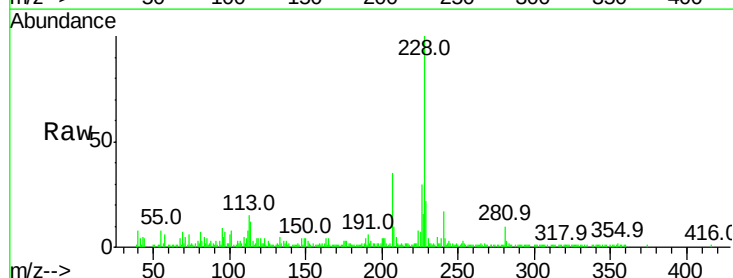
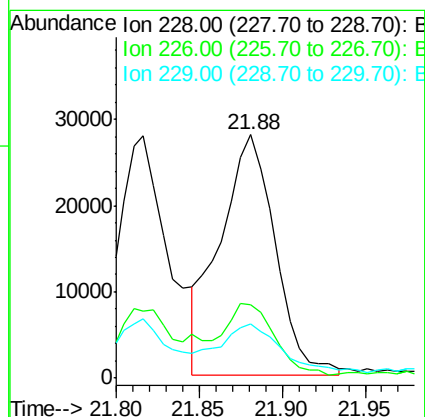
RT: 21.88 min Scan# 3241

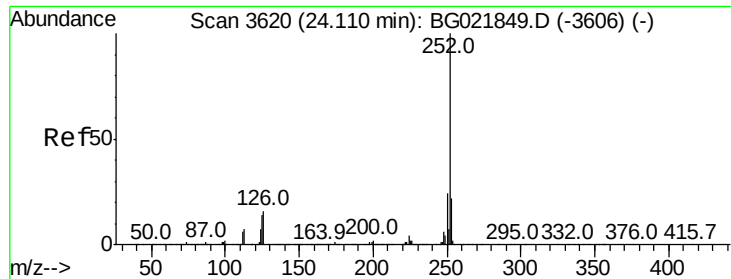
Delta R.T. -0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Tgt Ion:	228	Resp:	64633
Ion Ratio	Lower	Upper	
228	100		
226	30.1	23.4	35.2
229	22.2	16.2	24.2





#86

Benzo(b)fluoranthene

Concen: 4.69 ng/ul

RT: 24.12 min Scan# 3622

Delta R.T. 0.01 min

Lab File: BG021860.D

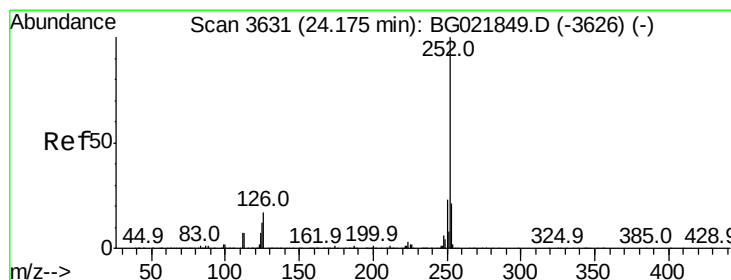
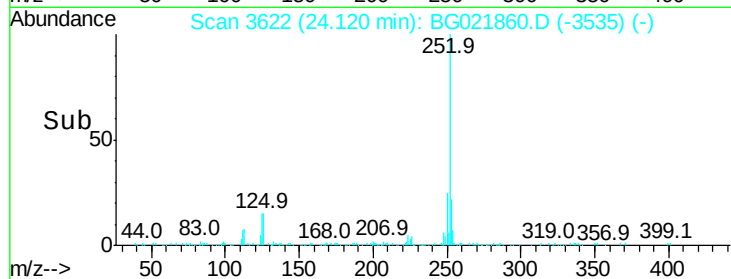
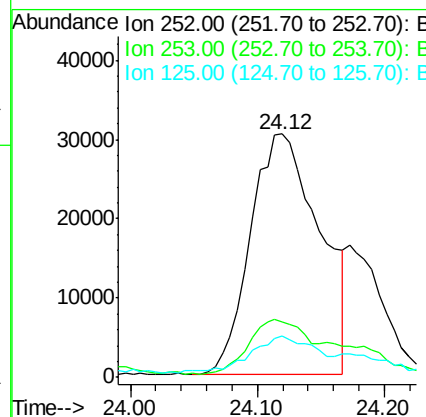
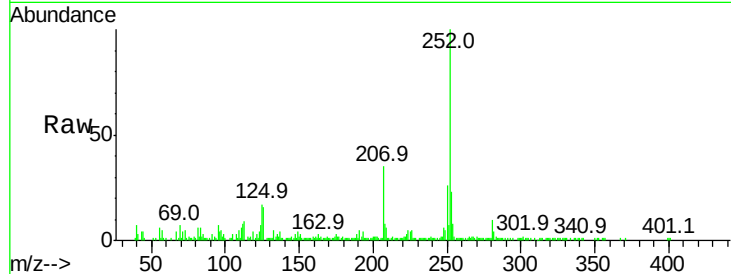
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	18.1	27.1
125	16.9	7.6	11.4

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM



#87

Benzo(k)fluoranthene

Concen: 1.24 ng/ul m

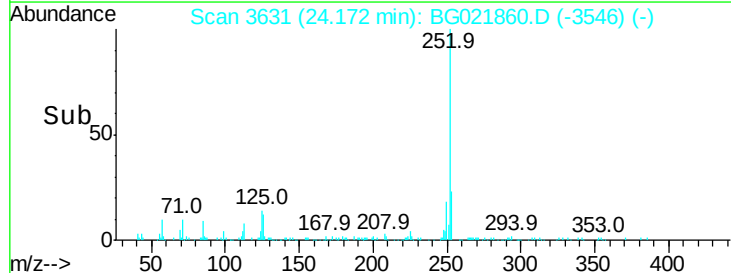
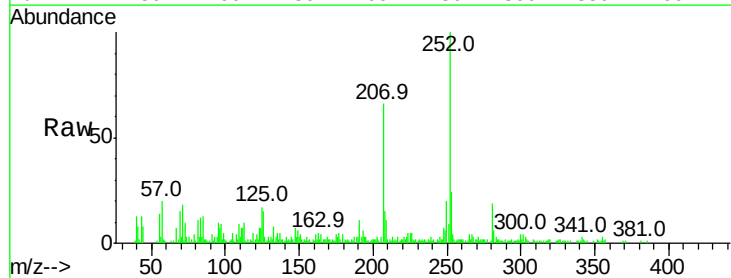
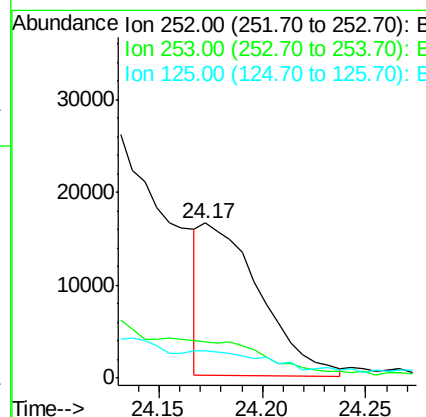
RT: 24.17 min Scan# 3631

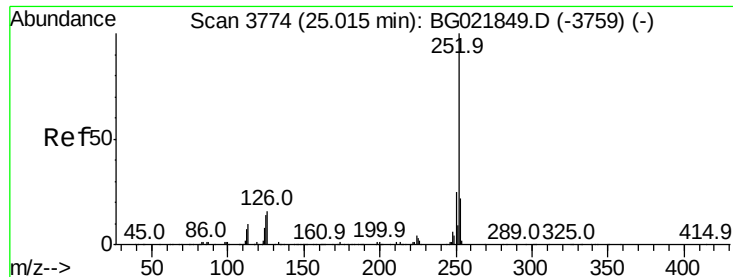
Delta R.T. -0.00 min

Lab File: BG021860.D

Acq: 12 May 2016 1:41

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.7	17.8	26.8
125	17.4	7.7	11.5





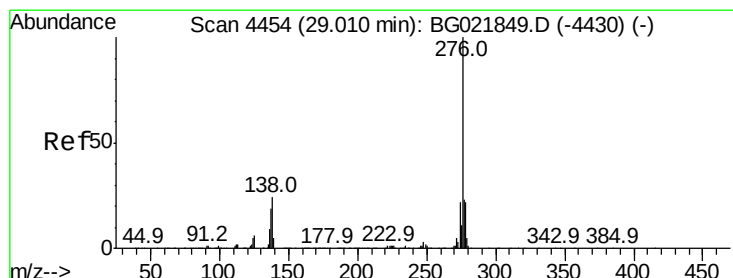
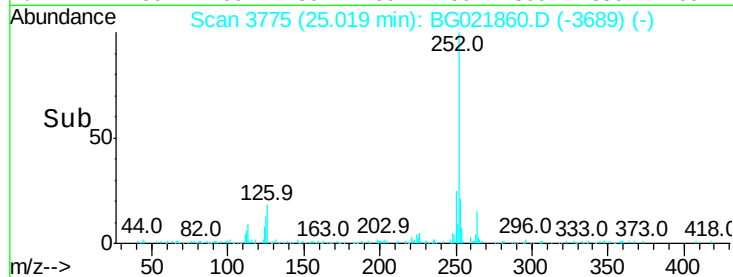
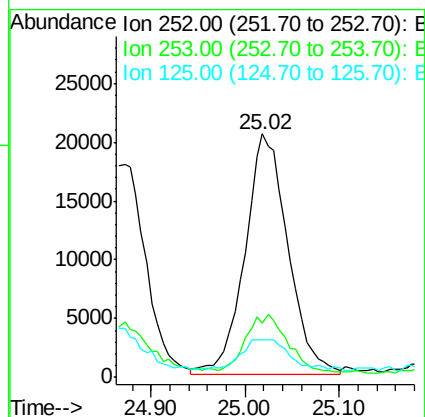
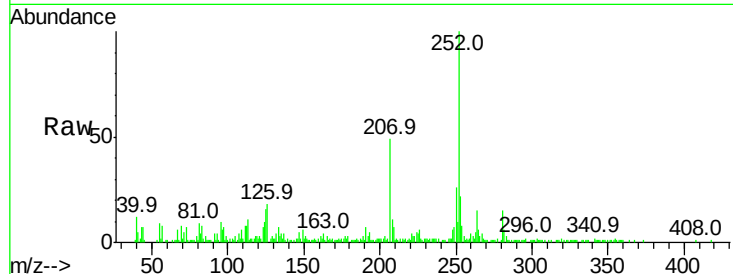
#89
Benzo(a)pyrene
Concen: 2.65 ng/ul
RT: 25.02 min Scan# 3775
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Instrument :
BNA_G
ClientSampleId :
D9WF4MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	15.7	8.2	12.2

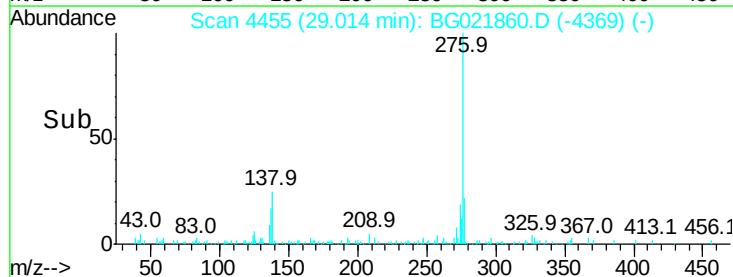
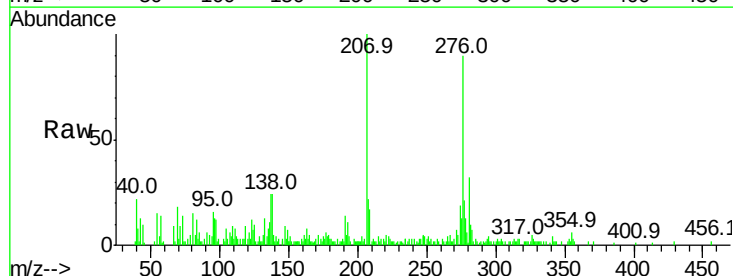
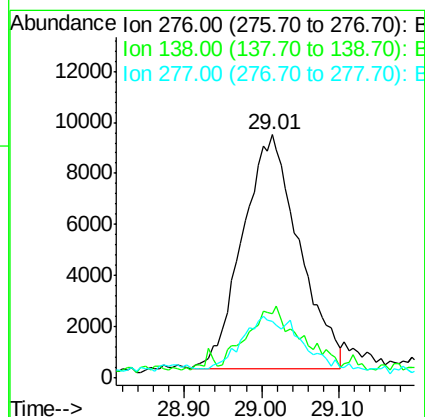
Manual Integrations
APPROVED

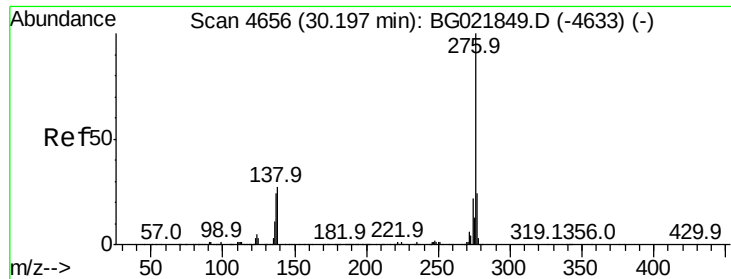
sohil
5/12/2016 7:26:57 PM



#90
Indeno(1,2,3-cd)pyrene
Concen: 1.62 ng/ul
RT: 29.01 min Scan# 4455
Delta R.T. 0.00 min
Lab File: BG021860.D
Acq: 12 May 2016 1:41

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.7	15.8	23.6
277	23.2	19.0	28.6





#92

Benzo(a,h,i)perylene

Concen: 1.68 ng/ul m

RT: 30.21 min Scan# 4659

Delta R.T. 0.02 min

Lab File: BG021860.D

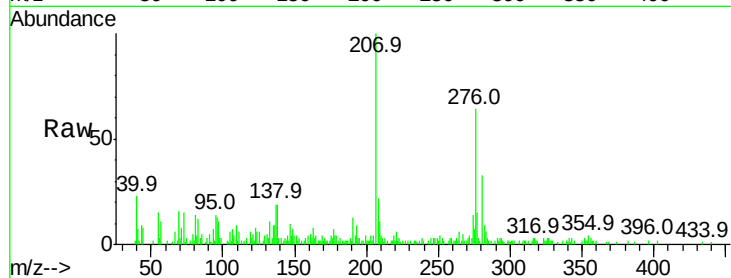
Acq: 12 May 2016 1:41

Instrument :

BNA_G

ClientSampleId :

D9WF4MSD



Tot Ion	Ratio	Lower	Upper
276	100		
138	30.2	13.9	20.9#
277	24.3	19.8	29.6

Manual Integrations
APPROVED

sohil
5/12/2016 7:26:57 PM

