

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
 Data File : BG020617.D
 Acq On : 30 Dec 2015 20:29
 Operator : UM/SJ
 Sample : G4802-13ME
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D88ME

Manual Integrations
 APPROVED

Sohil
 12/31/2015 6:35:49 PM

Quant Time: Dec 31 02:57:51 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 31 01:03:28 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.06	152	20913	20.00	ng/ul	0.00
18) Naphthalene-d8	10.88	136	88506	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.70	164	63959	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.45	188	145413	20.00	ng/ul	0.00
78) Chrysene-d12	21.72	240	179461	20.00	ng/ul	0.00
86) Perylene-d12	24.97	264	173965	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.43	96	1171	3.35	ng/uL	0.00
5) Phenol-d5	7.22	99	28544	16.16	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.38	67	19317	18.08	ng/ul	0.00
9) 2-Chlorophenol-d4	7.59	132	23519	17.41	ng/ul	0.00
13) 4-Methylphenol-d8	8.77	113	19975	13.18	ng/ul	0.00
19) Nitrobenzene-d5	9.23	128	13992	20.46	ng/ul	0.00
22) 2-Nitrophenol-d4	9.96	143	15848	19.97	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.50	165	26946	17.87	ng/ul	0.00
29) 4-Chloroaniline-d4	11.01	131	31867	17.80	ng/ul	0.00
44) Dimethylphthalate-d6	14.10	166	104213	19.91	ng/ul	0.00
47) Acenaphthylene-d8	14.39	160	119968	20.18	ng/ul	0.00
52) 4-Nitrophenol-d4	14.90	143	10591	12.90	ng/ul	0.00
58) Fluorene-d10	15.69	176	96097	20.25	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	12490	14.16	ng/ul	0.01
71) Anthracene-d10	17.55	188	156561	23.11	ng/ul	0.00
79) Pyrene-d10	19.83	212	180174	22.39	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.75	264	205241	23.65	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.94	128	1451695	309.73	ng/ul	96
34) 2-Methylnaphthalene	12.54	142	884010	252.06	ng/ul	96
41) 1,1'-Biphenyl	13.53	154	106951	22.22	ng/ul	97
45) Dimethylphthalate	14.14	163	20110	3.76	ng/ul#	97
48) Acenaphthylene	14.42	152	63403	10.01	ng/ul#	77
50) Acenaphthene	14.77	153	441137	102.95	ng/ul	98
54) Dibenzofuran	15.10	168	59716	9.22	ng/ul	95
59) Fluorene	15.75	166	331266	63.60	ng/ul	97
70) Phenanthrene	17.50	178	1581317m	200.03	ng/ul	
72) Anthracene	17.58	178	434303	53.71	ng/ul	100
75) Carbazole	17.85	167	7481	1.10	ng/ul#	59
77) Fluoranthene	19.50	202	543401	56.26	ng/ul	100
80) Pyrene	19.86	202	886187	85.26	ng/ul	98
83) Benzo(a)anthracene	21.69	228	309761	29.50	ng/ul	95
84) Bis(2-ethylhexyl)phthalate	21.58	149	6662	1.27	ng/ul	98
85) Chrysene	21.77	228	298174	30.17	ng/ul	96
88) Benzo(b)fluoranthene	23.94	252	160717	15.56	ng/ul	97
89) Benzo(k)fluoranthene	23.99	252	58072m	5.87	ng/ul	
91) Benzo(a)pyrene	24.83	252	195561	19.70	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.69	276	70892	5.99	ng/ul	99
93) Dibenzo(a,h)anthracene	28.72	278	25534m	2.59	ng/ul	
94) Benzo(a,h,i)perylene	29.86	276	75342m	7.75	ng/ul	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

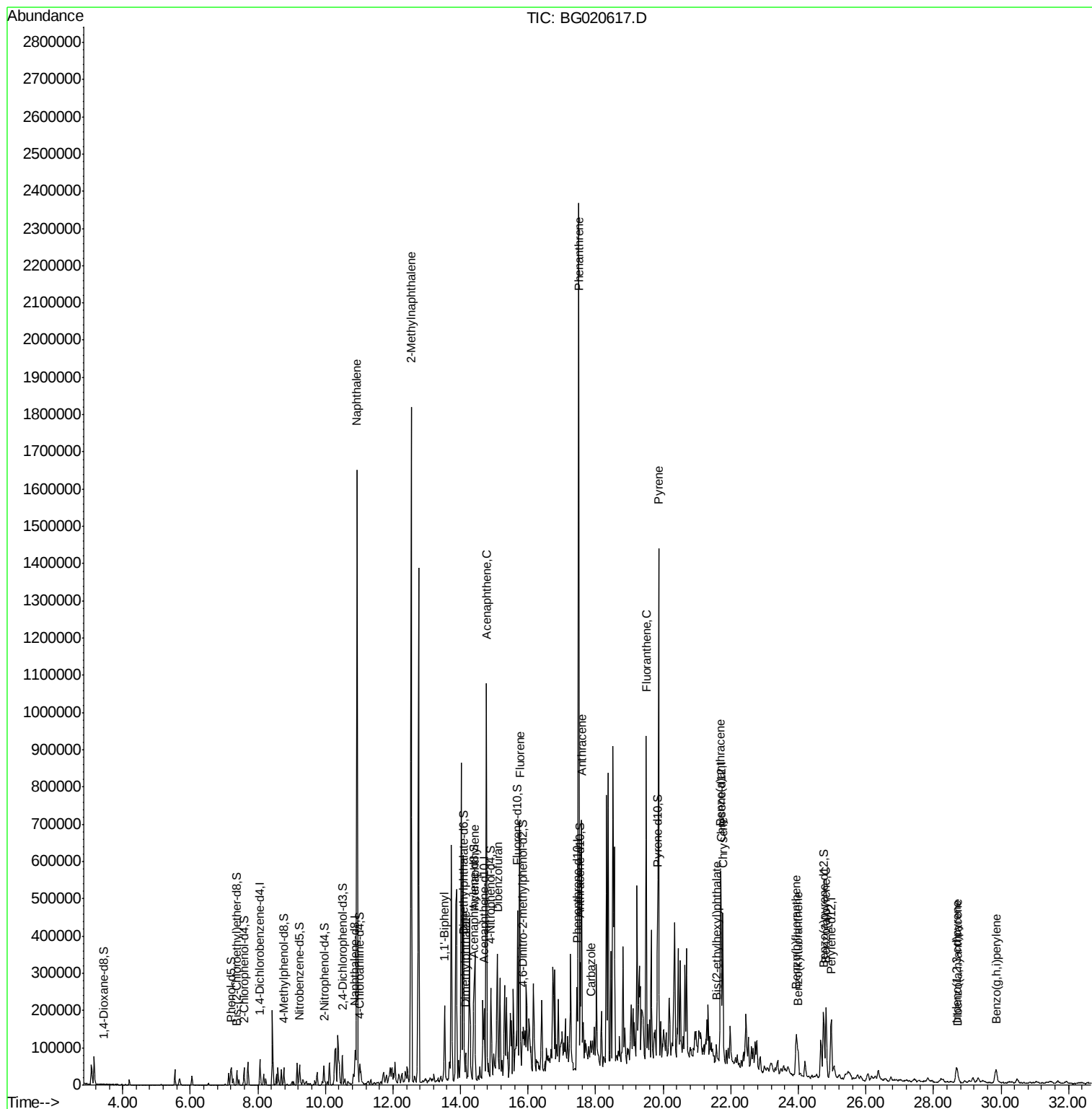
Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\
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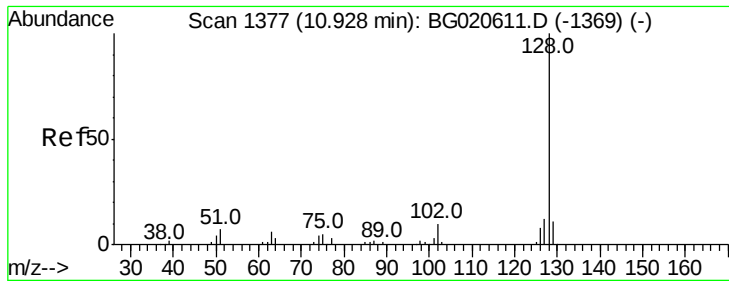
Instrument :
BNA_G
ClientSampleId :
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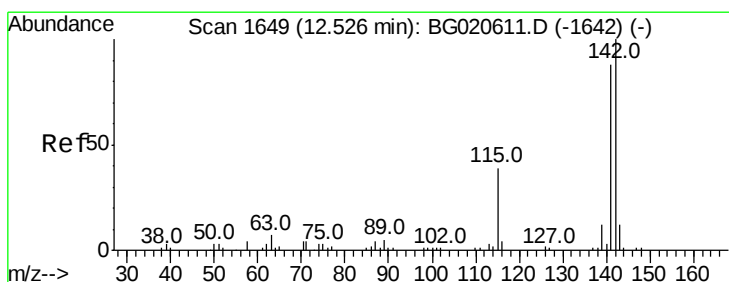
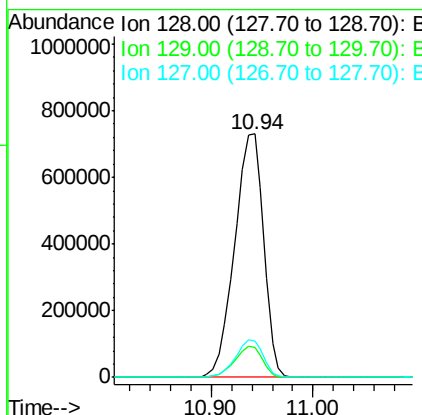
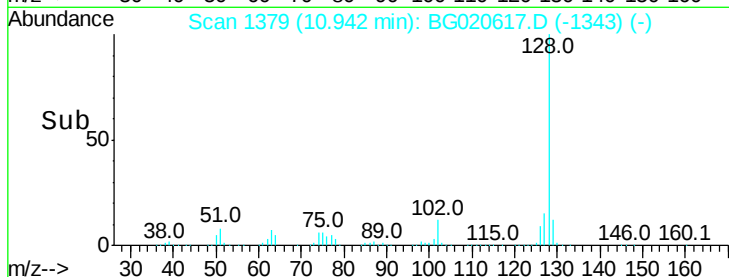
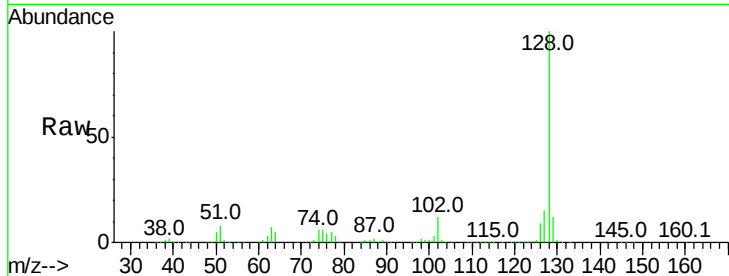
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Naphthalene
Concen: 309.73 ng/ul
RT: 10.94 min Scan# 1379
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
ClientSampleId :
G9D88ME

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.3	12.5
127	15.0	10.8	16.2

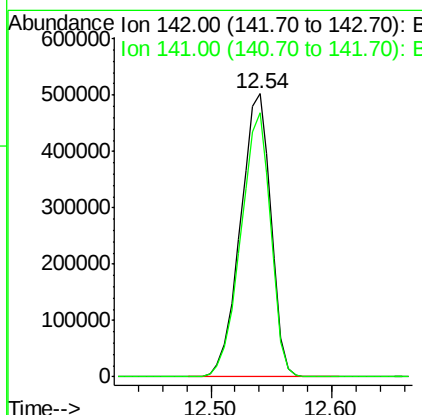
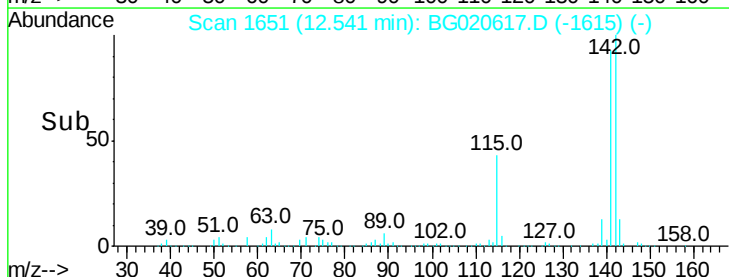
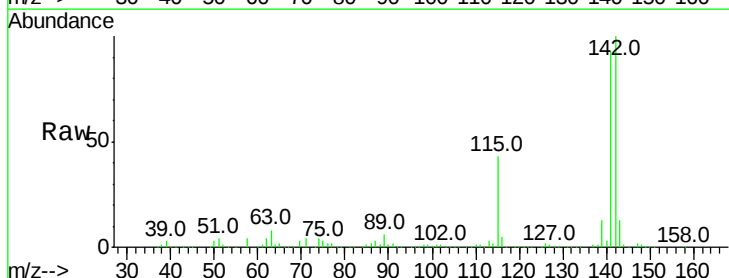
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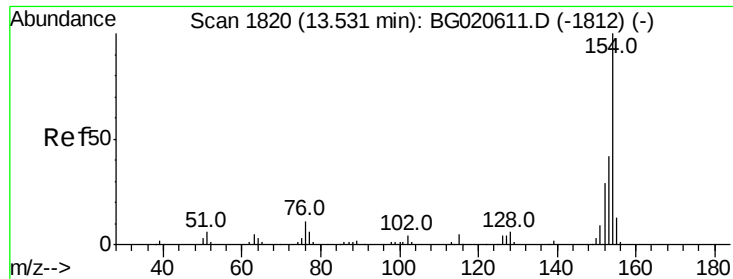
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#34
2-Methylnaphthalene
Concen: 252.06 ng/ul
RT: 12.54 min Scan# 1651
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.4	107.2





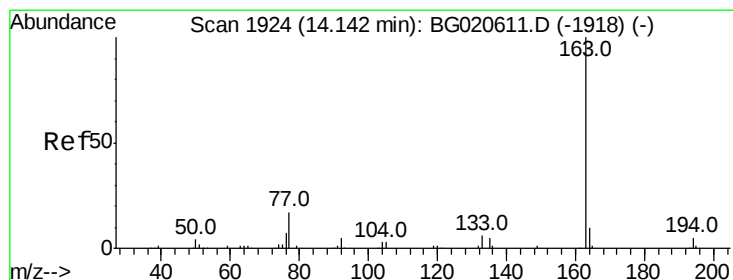
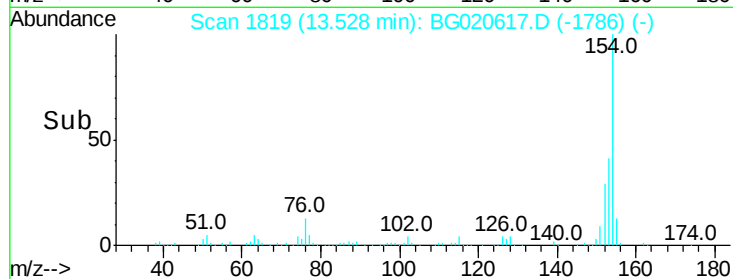
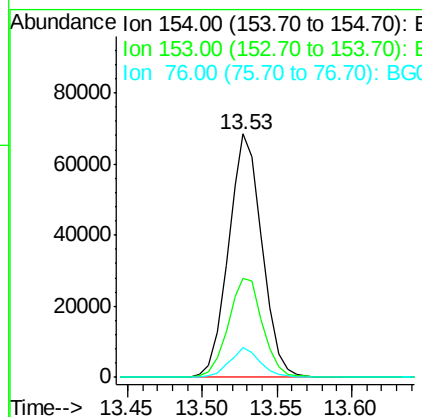
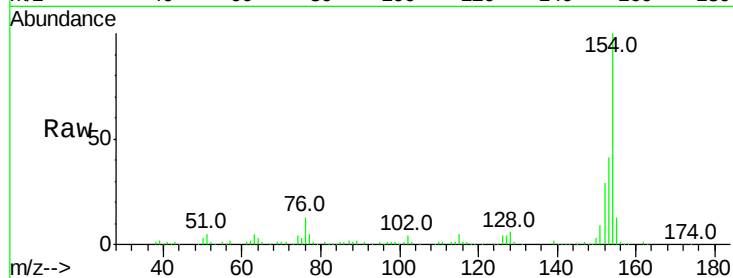
#41
1,1'-Biphenyl
Concen: 22.22 ng/ul
RT: 13.53 min Scan# 1819
Delta R.T. -0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
ClientSampleId :
G9D88ME

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.9	34.0	51.0	
76	12.5	8.4	12.6	

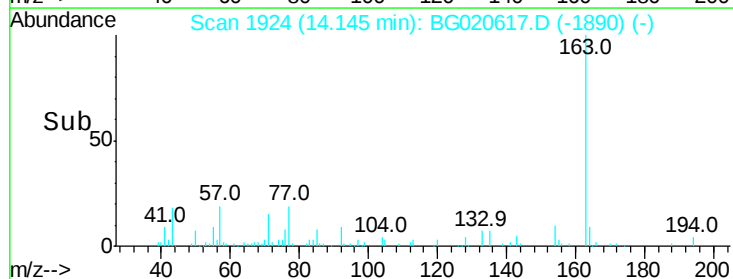
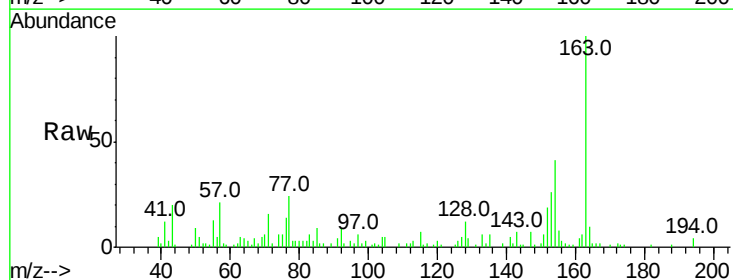
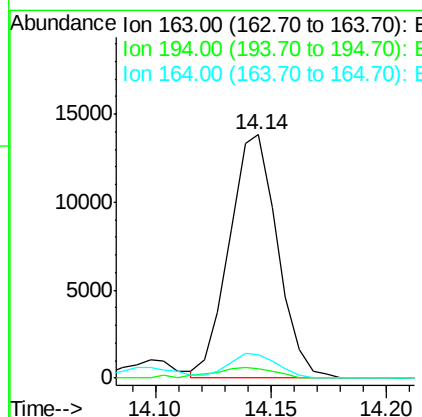
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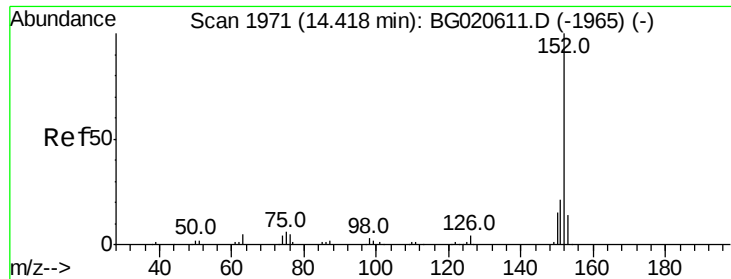
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#45
Dimethylphthalate
Concen: 3.76 ng/ul
RT: 14.14 min Scan# 1924
Delta R.T. 0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.6	4.0	6.0#	
164	9.5	8.4	12.6	





#48

Acenaphthylene

Concen: 10.01 ng/ul

RT: 14.42 min Scan# 1971

Delta R.T. 0.00 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Instrument :

BNA_G

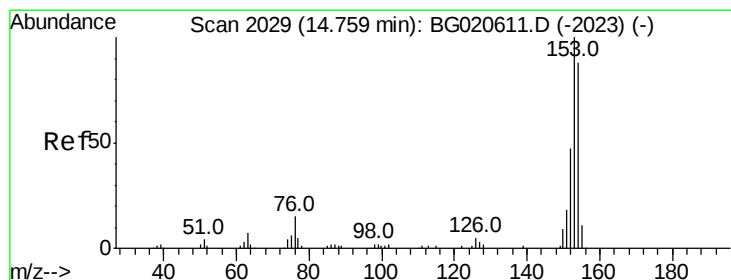
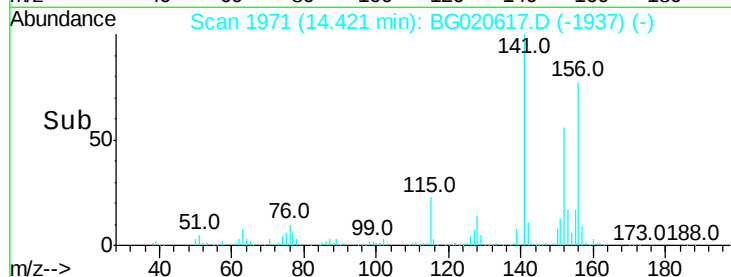
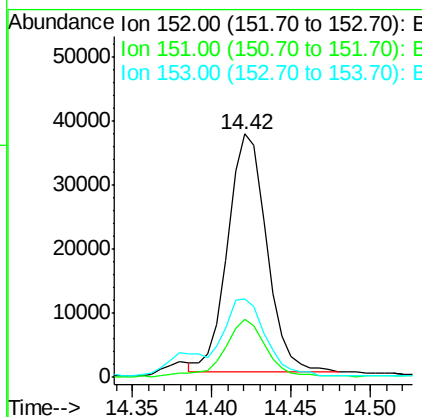
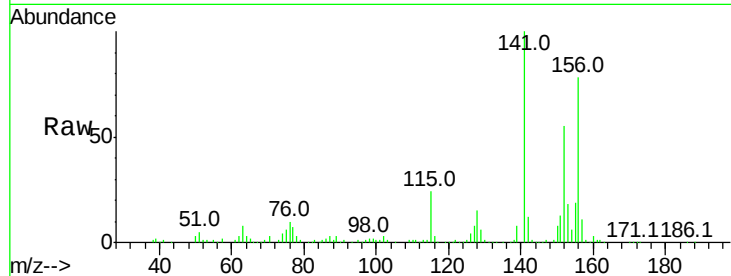
ClientSampleId :

G9D88ME

Tot Ion:	152	Resp:	63403
Ion Ratio	Lower	Upper	
152	100		
151	23.6	16.1	24.1
153	32.2	10.8	16.2#

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#50

Acenaphthene

Concen: 102.95 ng/ul

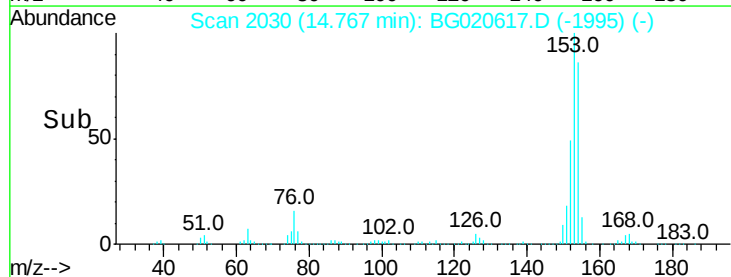
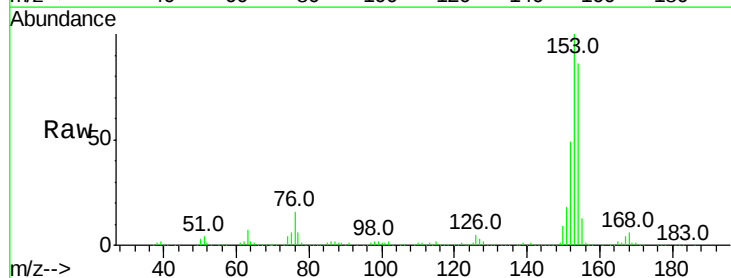
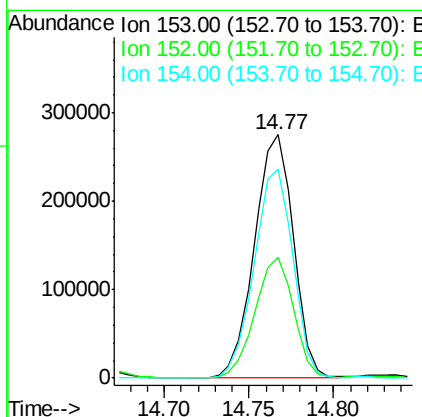
RT: 14.77 min Scan# 2030

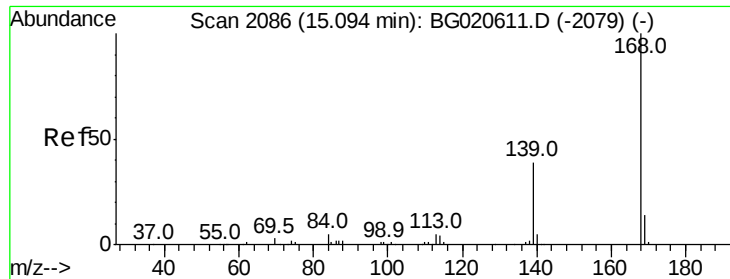
Delta R.T. 0.01 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Tgt Ion:	153	Resp:	441137
Ion Ratio	Lower	Upper	
153	100		
152	49.4	37.9	56.9
154	85.6	69.8	104.6





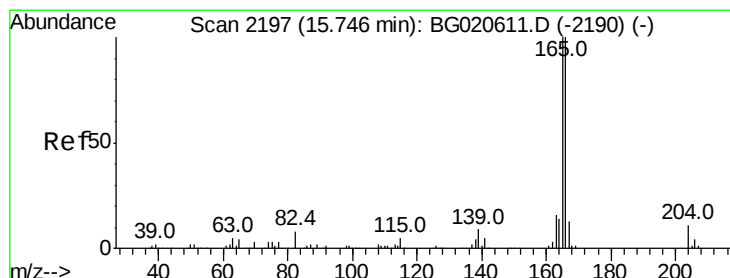
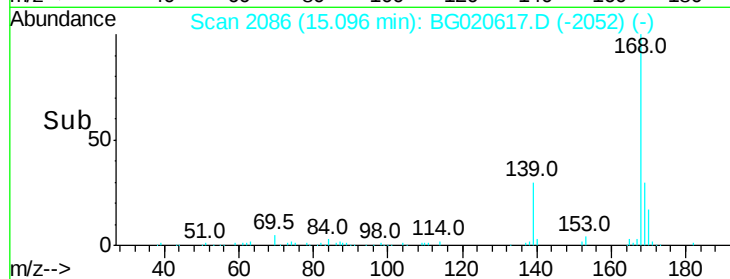
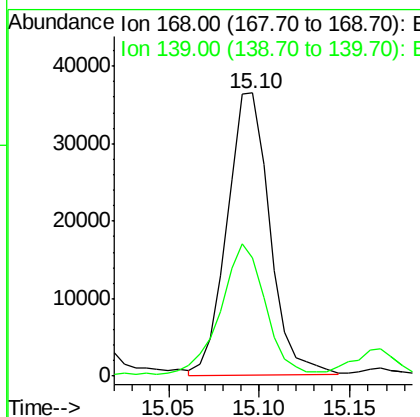
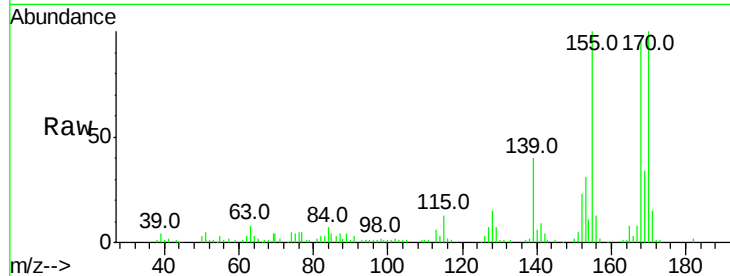
#54
Dibenzenofuran
Concen: 9.22 ng/ul
RT: 15.10 min Scan# 2086
Delta R.T. 0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
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G9D88ME

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.0	31.0	46.4

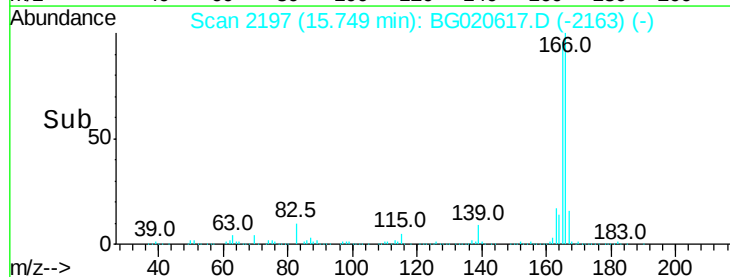
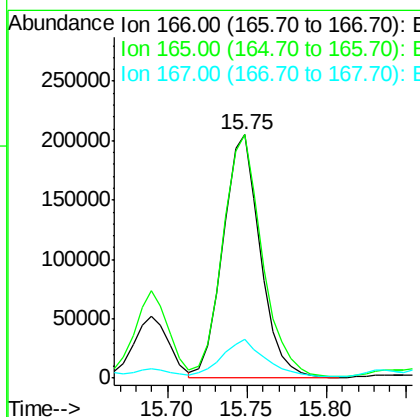
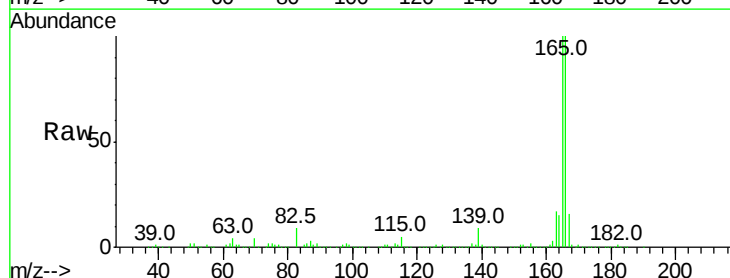
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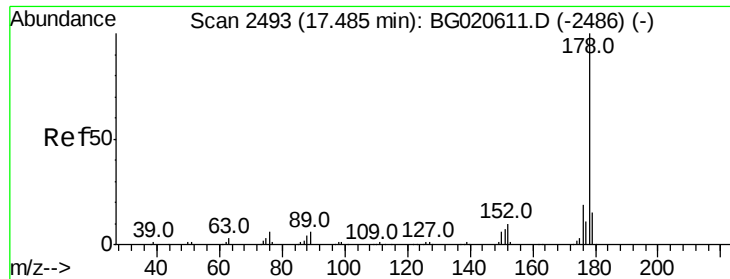
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#59
Fluorene
Concen: 63.60 ng/ul
RT: 15.75 min Scan# 2197
Delta R.T. 0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.2	78.4	117.6
167	16.0	11.1	16.7





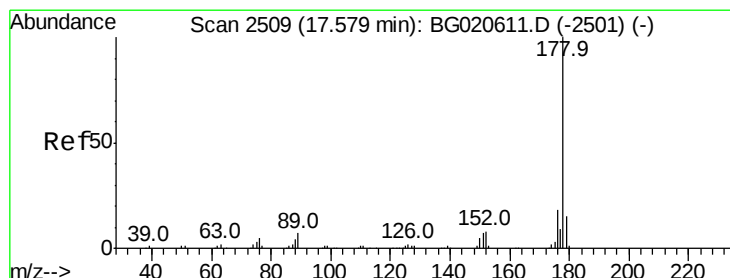
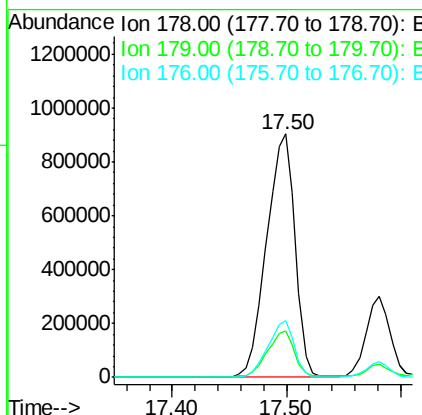
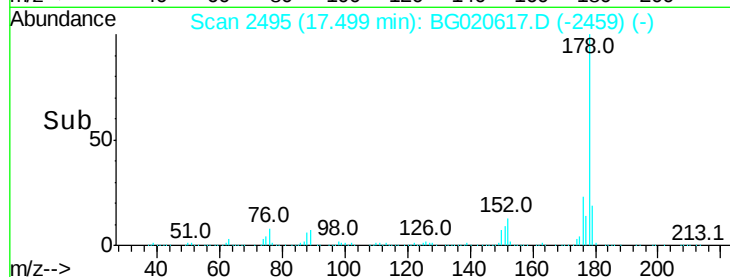
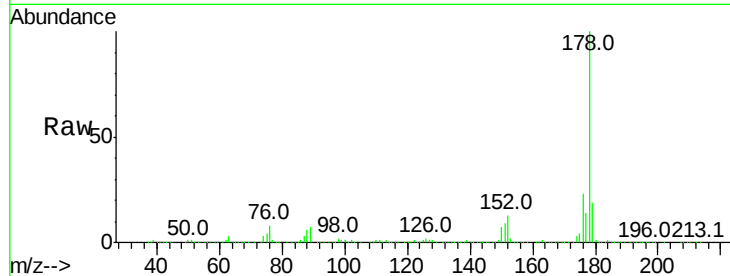
#70
Phenanthrene
Concen: 200.03 ng/ul m
RT: 17.50 min Scan# 2495
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
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G9D88ME

Tot Ion:178 Resp: 1581317
Ion Ratio Lower Upper
178 100
179 19.1 12.3 18.5#
176 23.2 15.4 23.0#

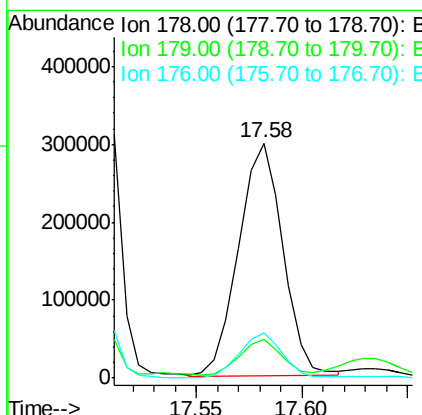
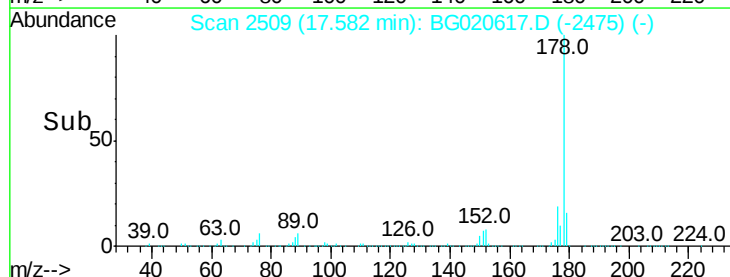
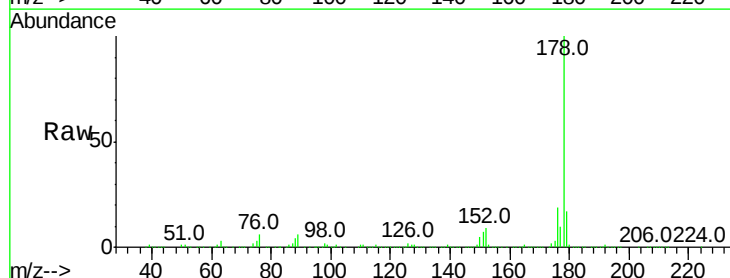
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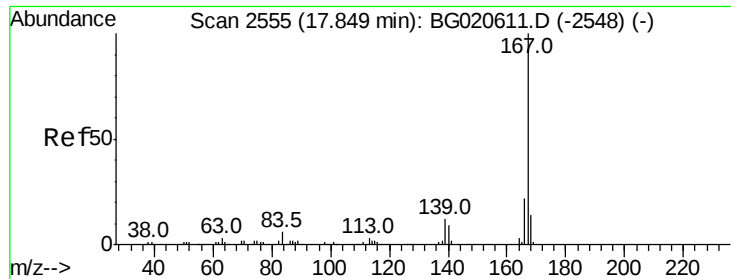
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#72
Anthracene
Concen: 53.71 ng/ul
RT: 17.58 min Scan# 2509
Delta R.T. 0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion:178 Resp: 434303
Ion Ratio Lower Upper
178 100
179 16.6 13.4 20.2
176 19.3 15.4 23.0





#75

Carbazole

Concen: 1.10 ng/ul

RT: 17.85 min Scan# 2554

Delta R.T. -0.00 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Instrument :

BNA_G

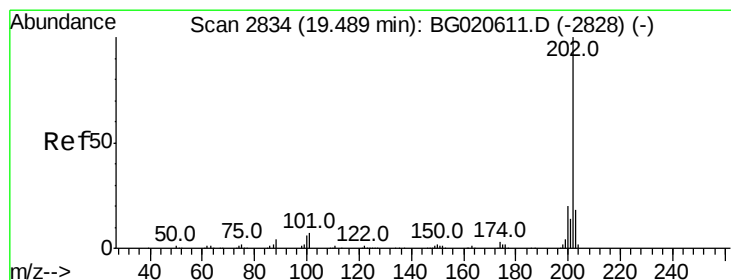
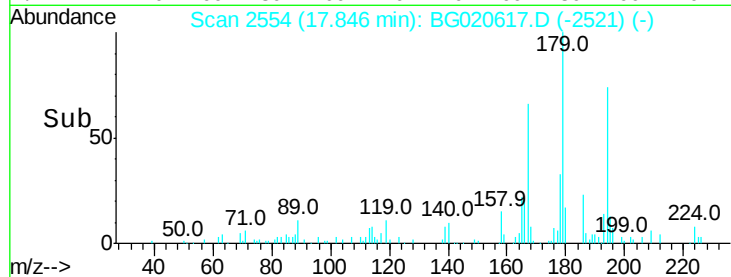
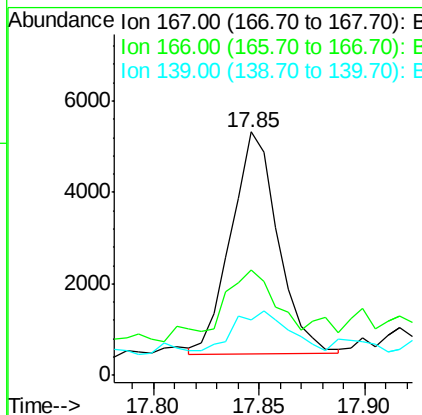
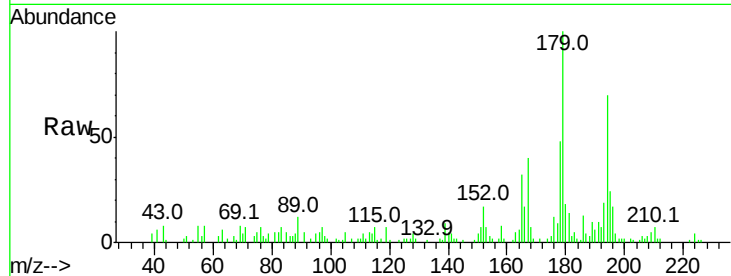
ClientSampleId :

G9D88ME

Tot Ion:	167	Resp:	7481
Ion Ratio	Lower	Upper	
167	100		
166	43.1	17.0	25.4#
139	22.7	9.1	13.7#

Manual Integrations
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#77

Fluoranthene

Concen: 56.26 ng/ul

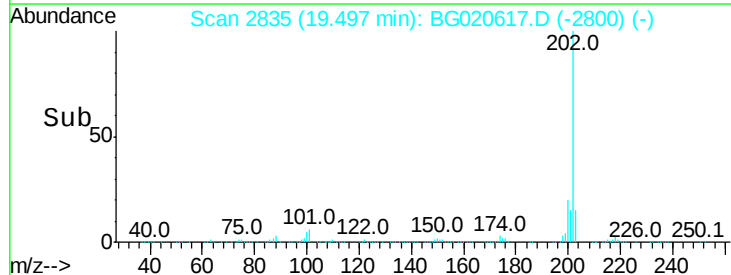
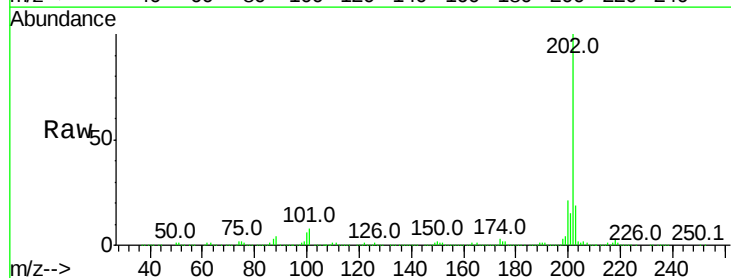
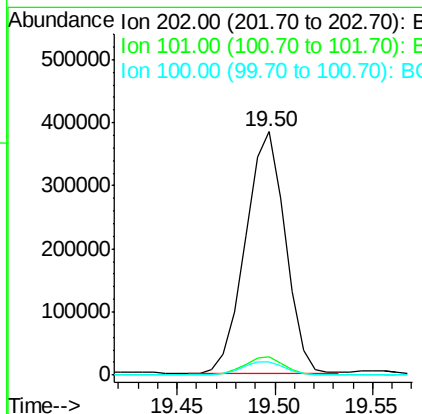
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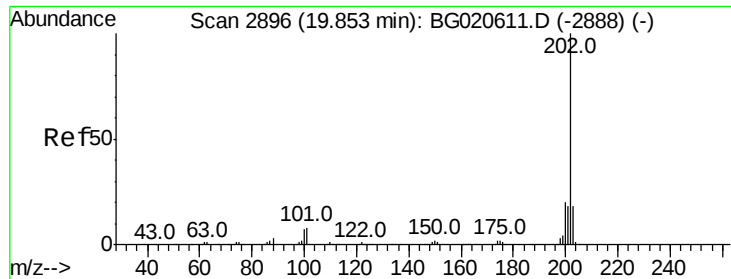
Delta R.T. 0.01 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Tgt Ion:	202	Resp:	543401
Ion Ratio	Lower	Upper	
202	100		
101	7.6	6.1	9.1
100	5.6	4.6	7.0





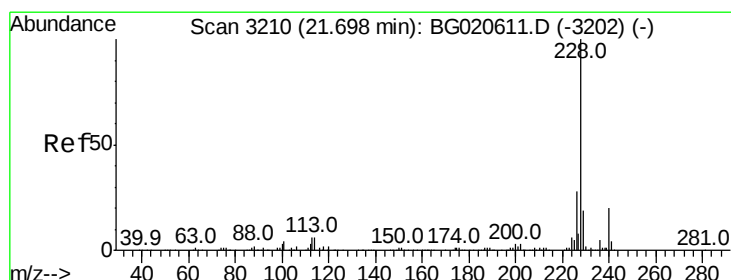
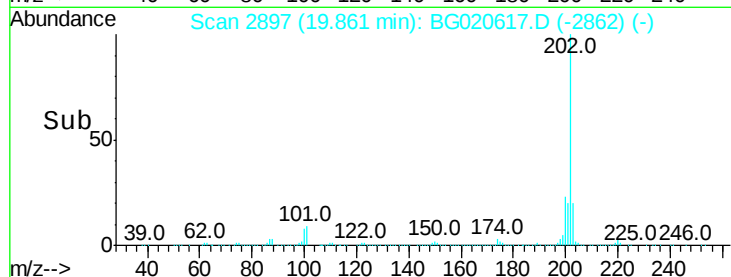
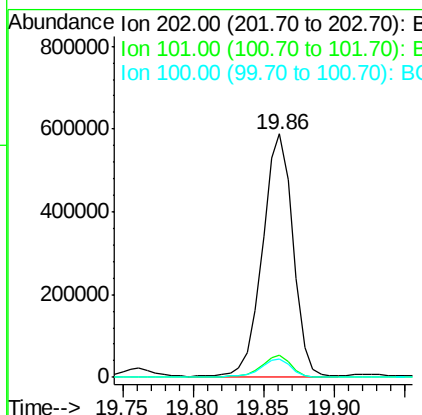
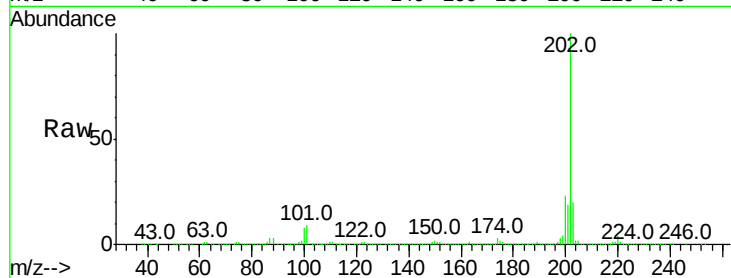
#80
Pvrene
Concen: 85.26 ng/ul
RT: 19.86 min Scan# 2897
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
ClientSampleId :
G9D88ME

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.1	6.9	10.3
100	7.7	5.6	8.4

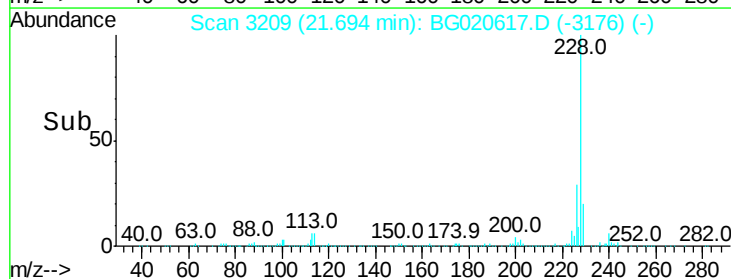
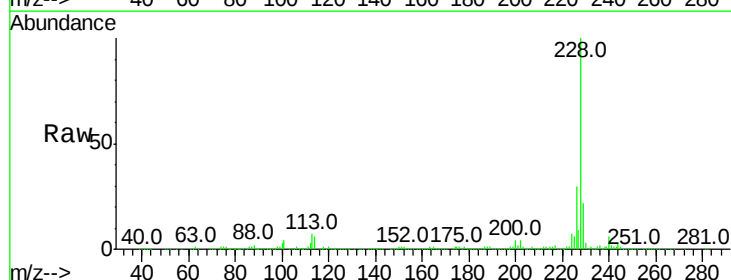
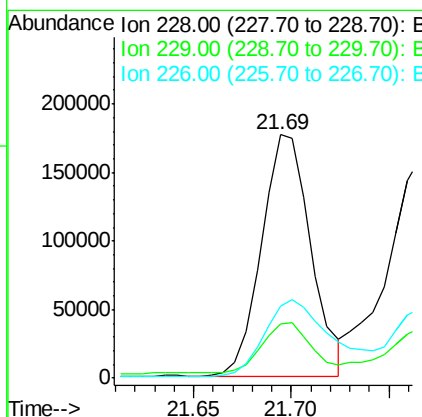
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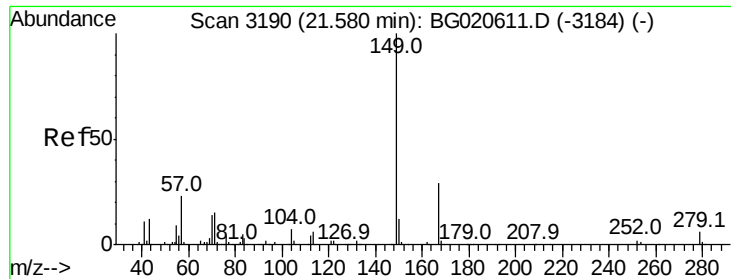
Sohil
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#83
Benzo(a)anthracene
Concen: 29.50 ng/ul
RT: 21.69 min Scan# 3209
Delta R.T. -0.00 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
229	22.0	16.0	24.0
226	29.8	21.8	32.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 1.27 ng/ul

RT: 21.58 min Scan# 3189

Delta R.T. -0.00 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Instrument :

BNA_G

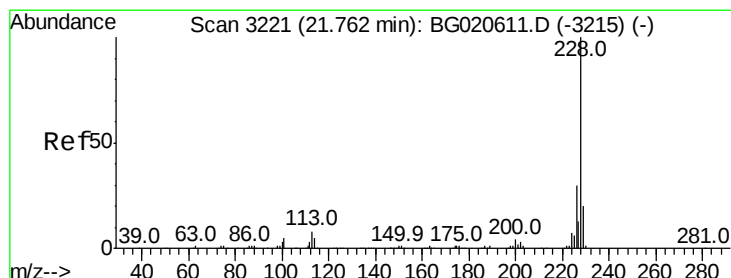
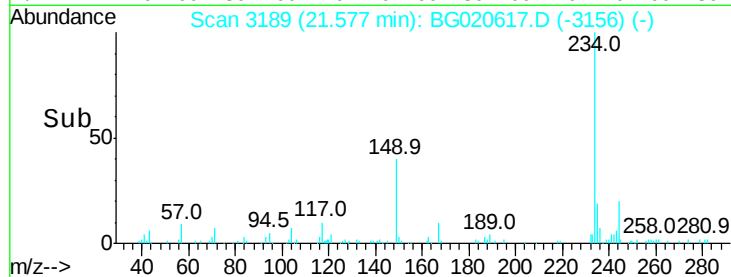
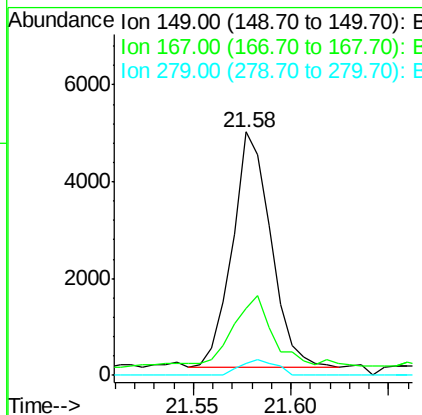
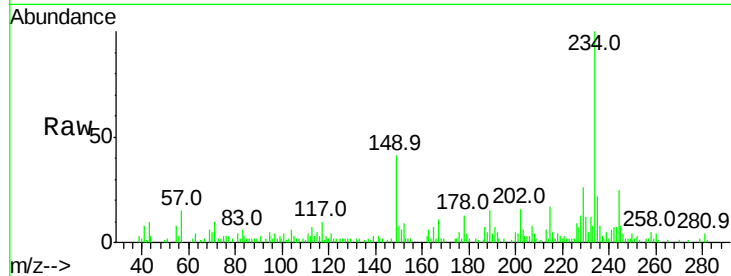
ClientSampleId :

G9D88ME

Tot Ion:	149	Resp:	6662
Ion Ratio	Lower	Upper	
149	100		
167	27.6	23.0	34.6
279	4.9	4.3	6.5

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#85

Chrysene

Concen: 30.17 ng/ul

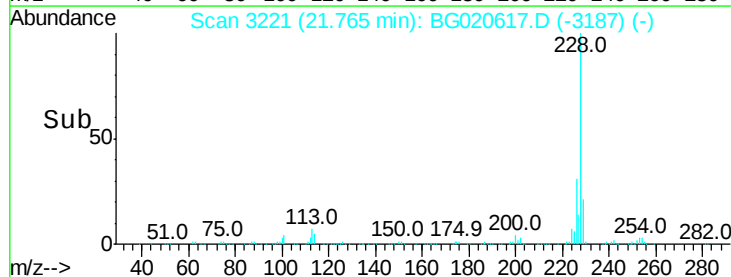
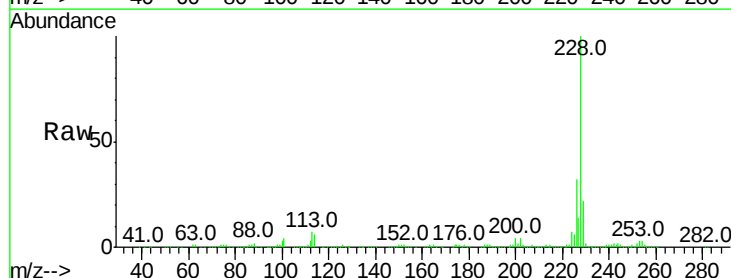
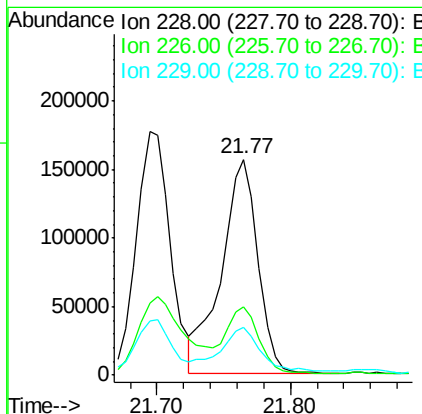
RT: 21.77 min Scan# 3221

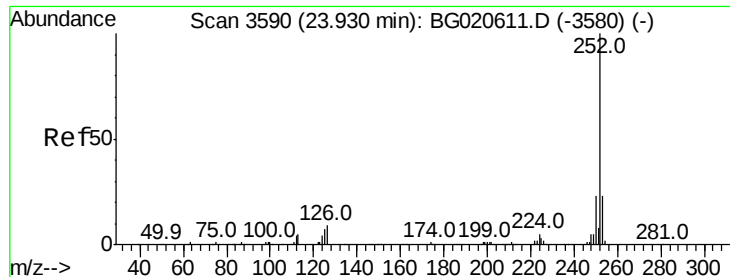
Delta R.T. 0.00 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Tgt Ion:	228	Resp:	298174
Ion Ratio	Lower	Upper	
228	100		
226	31.9	24.1	36.1
229	22.3	16.0	24.0





#88

Benzo(b)fluoranthene

Concen: 15.56 ng/ul

RT: 23.94 min Scan# 3591

Delta R.T. 0.01 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Instrument :

BNA_G

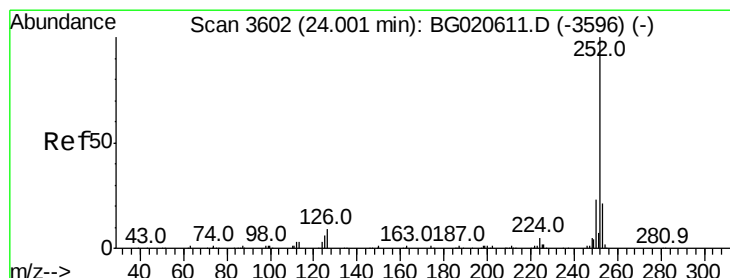
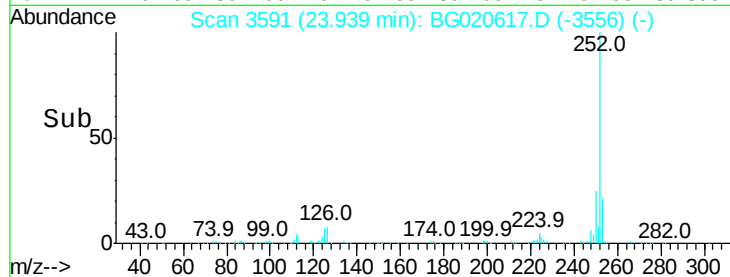
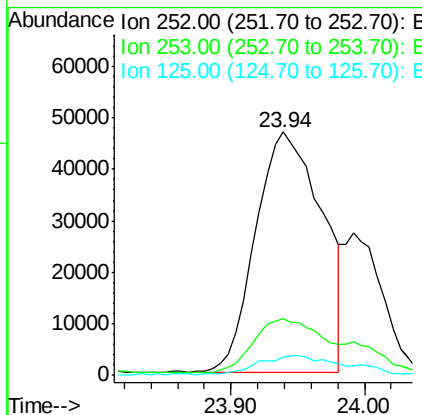
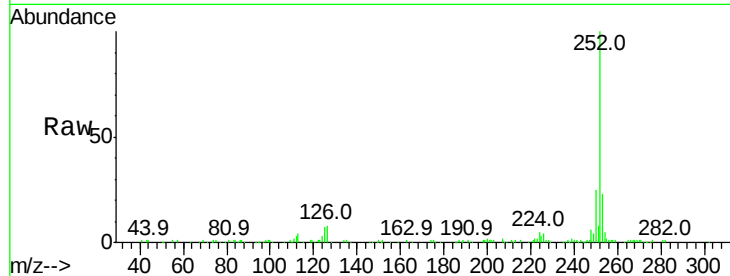
ClientSampleId :

G9D88ME

Tot Ion:	252	Resp:	160717
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.4	26.0
125	7.3	4.9	7.3

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#89

Benzo(k)fluoranthene

Concen: 5.87 ng/ul m

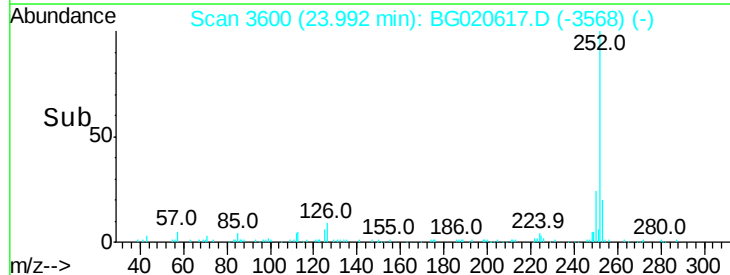
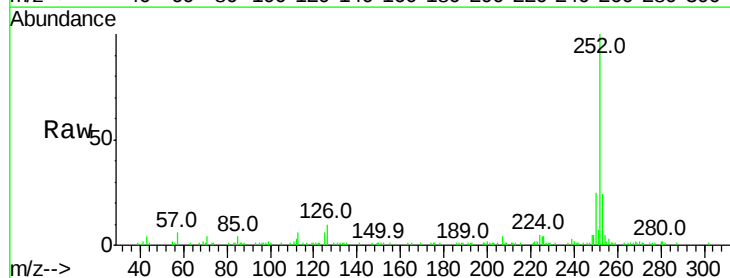
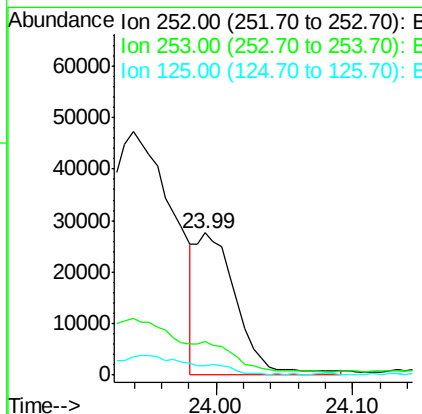
RT: 23.99 min Scan# 3600

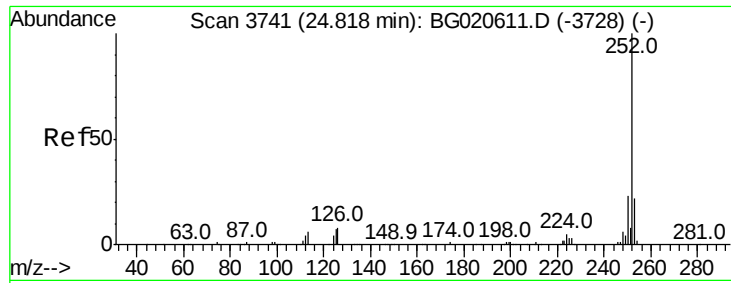
Delta R.T. -0.01 min

Lab File: BG020617.D

Acq: 30 Dec 2015 20:29

Tgt Ion:	252	Resp:	58072
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.1	25.7
125	6.3	5.4	8.0





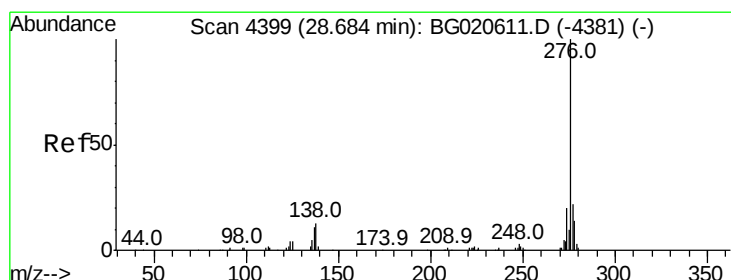
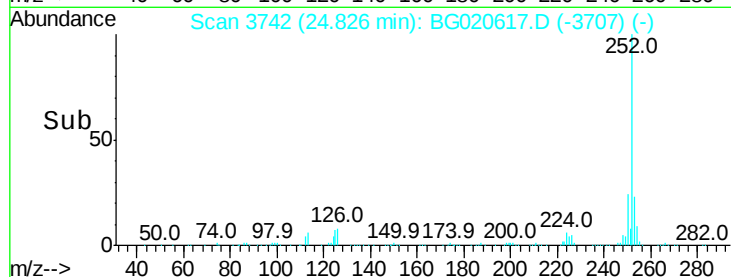
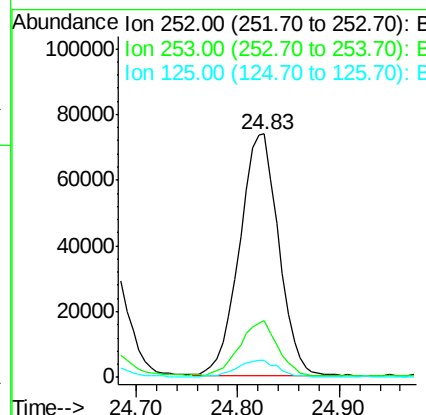
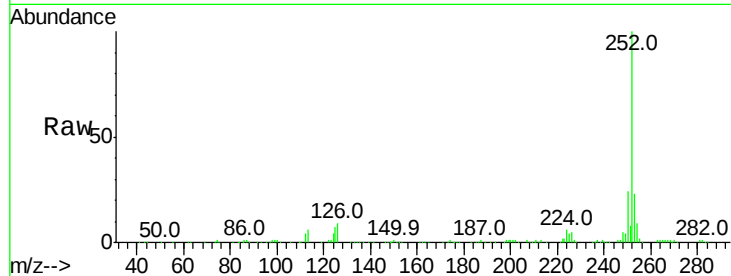
#91
Benzo(a)pyrene
Concen: 19.70 ng/ul
RT: 24.83 min Scan# 3742
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Instrument :
BNA_G
ClientSampleId :
G9D88ME

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	7.2	5.8	8.6

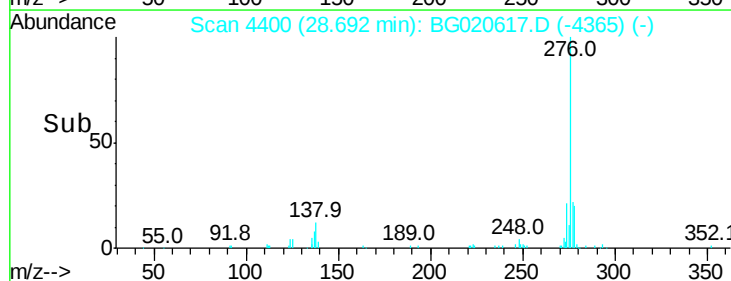
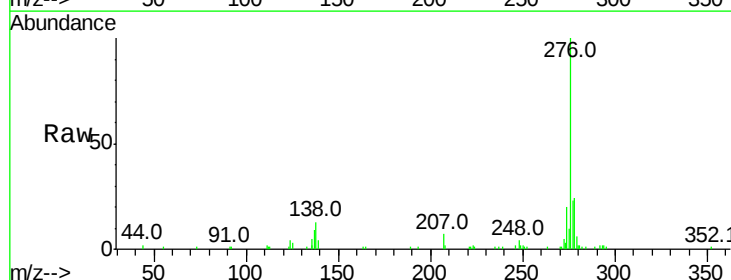
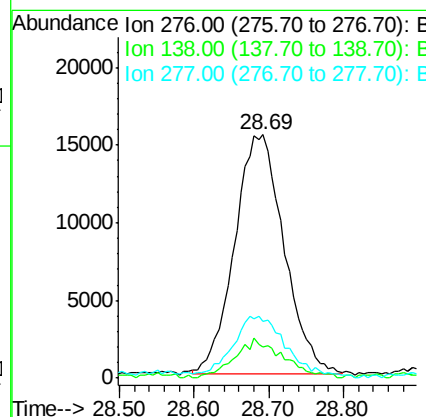
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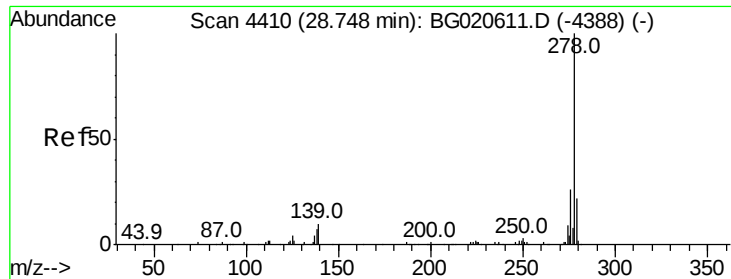
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#92
Indeno(1,2,3-cd)pyrene
Concen: 5.99 ng/ul
RT: 28.69 min Scan# 4400
Delta R.T. 0.01 min
Lab File: BG020617.D
Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Lower	Upper
276	100		
138	12.7	10.9	16.3
277	23.2	18.9	28.3





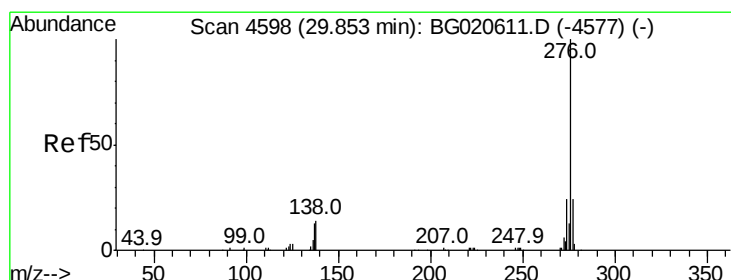
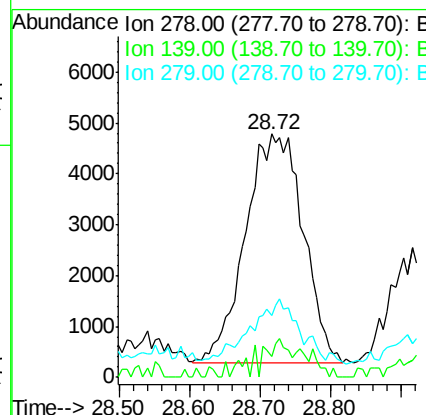
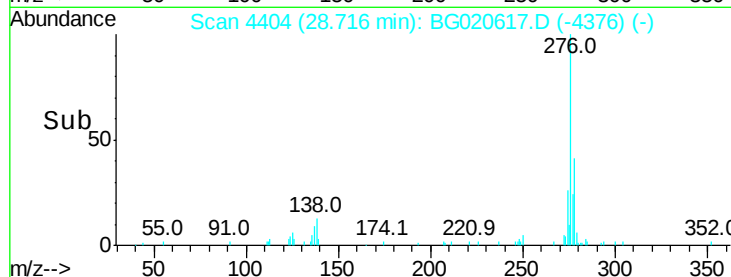
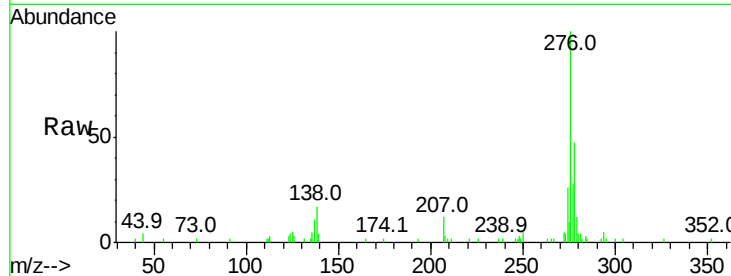
#93
 Dibenzo(a,h)anthracene
 Concen: 2.59 ng/ul m
 RT: 28.72 min Scan# 4404
 Delta R.T. -0.03 min
 Lab File: BG020617.D
 Acq: 30 Dec 2015 20:29

Instrument :
 BNA_G
 ClientSampleId :
 G9D88ME

Tot Ion	Ratio	Lower	Upper
278	100		
139	8.6	9.0	13.4#
279	25.2	19.1	28.7

Manual Integrations
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#94
 Benzo(g,h,i)perylene
 Concen: 7.75 ng/ul m
 RT: 29.86 min Scan# 4599
 Delta R.T. 0.01 min
 Lab File: BG020617.D
 Acq: 30 Dec 2015 20:29

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.9	11.2	16.8
277	23.9	19.0	28.6

