

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121815\
 Data File : BG020261.D
 Acq On : 18 Dec 2015 1:24
 Operator : UM/SJ
 Sample : G4767-19DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N41DL

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:20:22 PM

Quant Time: Dec 18 11:59:04 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 18 02:40:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	18004	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	74889	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	54556	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	139266	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	179466	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	173009	20.00	ng/ul	0.00

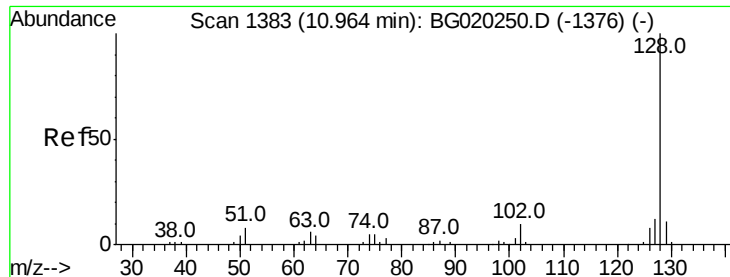
System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	270	0.83	ng/uL	0.00
5) Phenol-d5	7.24	99	9263	5.83	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	6110	6.45	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	7323	6.34	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	8420	6.20	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	3910	6.70	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	4559	7.02	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	8738	6.64	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	11315m	7.66	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	32769	7.43	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	34987	6.81	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	4195	5.30	ng/ul	0.00
58) Fluorene-d10	15.72	176	26964	6.74	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	3857	4.67	ng/ul	0.00
71) Anthracene-d10	17.57	188	44380	6.92	ng/ul	0.00
79) Pyrene-d10	19.85	212	53120	6.35	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	58521	6.78	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	10.97	128	814605	208.29	ng/ul	96
34) 2-Methylnaphthalene	12.56	142	266232	89.12	ng/ul	96
41) 1,1'-Biphenyl	13.56	154	117143	28.46	ng/ul	94
45) Dimethylphthalate	14.17	163	14587	3.24	ng/ul	99
48) Acenaphthylene	14.45	152	39009	7.15	ng/ul	98
50) Acenaphthene	14.79	153	508074	138.44	ng/ul	98
54) Dibenzofuran	15.12	168	541857	99.25	ng/ul	100
59) Fluorene	15.78	166	508063	115.89	ng/ul	98
70) Phenanthrene	17.53	178	2088516m	274.17	ng/ul	
72) Anthracene	17.61	178	259126	33.54	ng/ul	99
75) Carbazole	17.87	167	190200	29.30	ng/ul	99
77) Fluoranthene	19.52	202	1311973	147.37	ng/ul	97
80) Pyrene	19.88	202	930447	85.66	ng/ul	99
83) Benzo(a)anthracene	21.73	228	226340	21.61	ng/ul	99
85) Chrysene	21.79	228	183522	18.61	ng/ul	97
88) Benzo(b)fluoranthene	23.98	252	106532	10.23	ng/ul	96
89) Benzo(k)fluoranthene	24.03	252	31866m	3.19	ng/ul	
91) Benzo(a)pyrene	24.86	252	60180	6.10	ng/ul	100
92) Indeno(1,2,3-cd)pyrene	28.73	276	17615m	1.50	ng/ul	
94) Benzo(g,h,i)perylene	29.90	276	13722m	1.42	ng/ul	

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



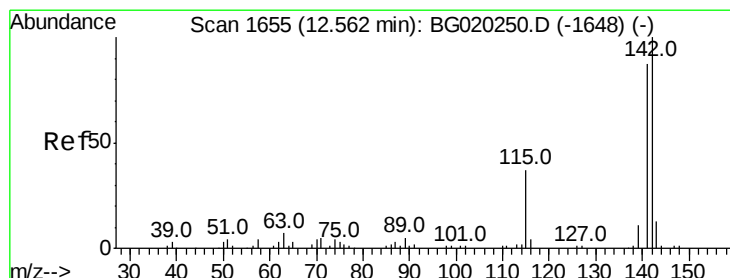
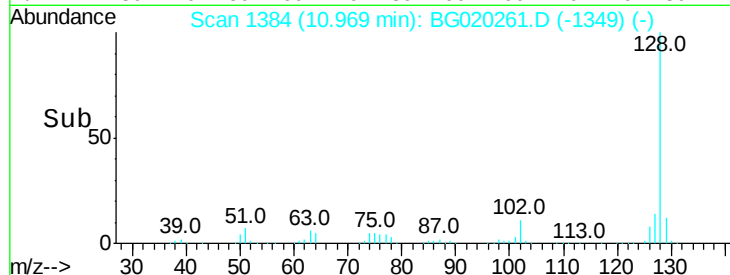
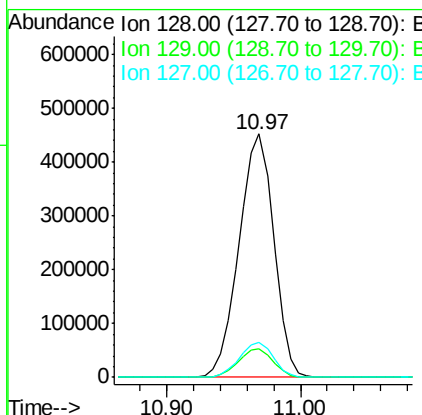
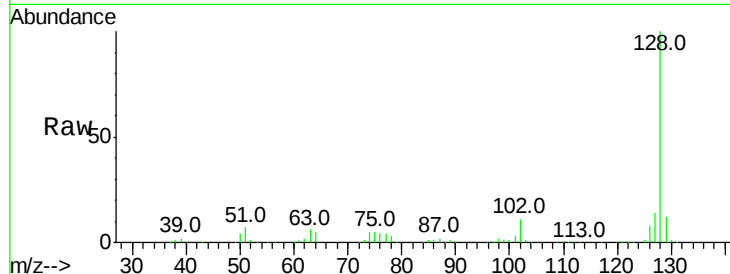
#28
Naphthalene
Concen: 208.29 ng/ul
RT: 10.97 min Scan# 1384
Delta R.T. 0.01 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Instrument :
BNA_G
ClientSampleId :
D9N41DL

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.6	12.8
127	14.2	10.1	15.1

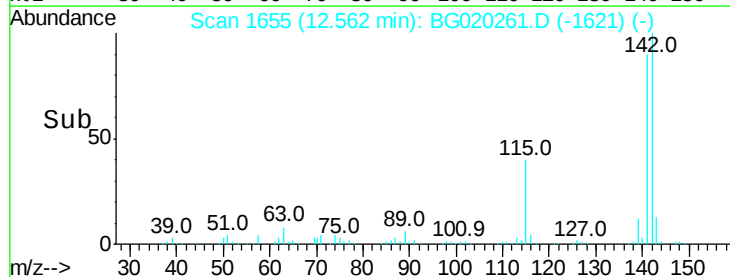
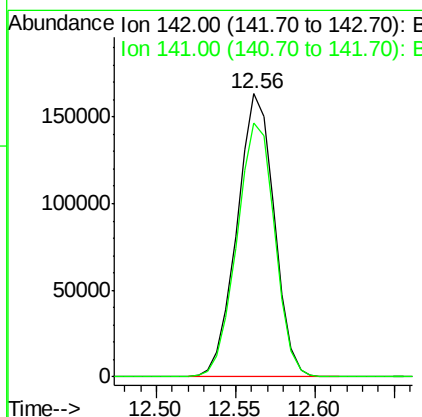
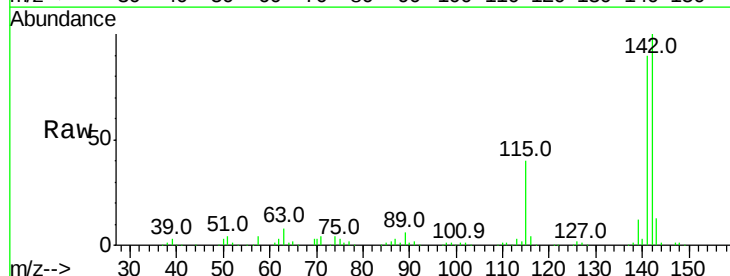
Manual Integrations
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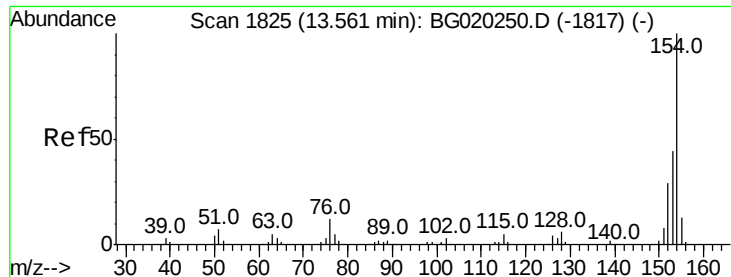
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#34
2-Methylnaphthalene
Concen: 89.12 ng/ul
RT: 12.56 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.7	74.9	112.3





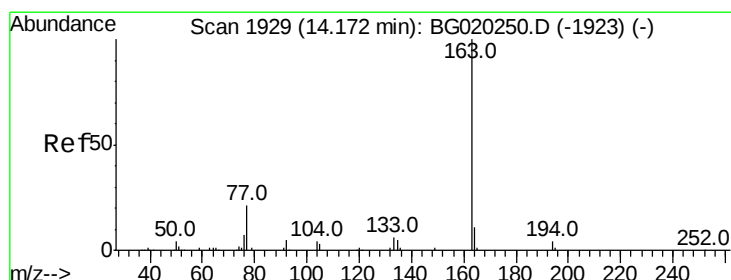
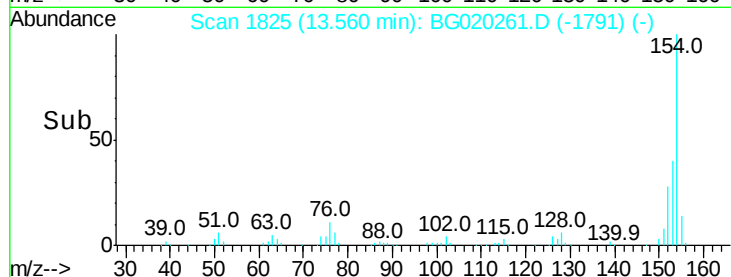
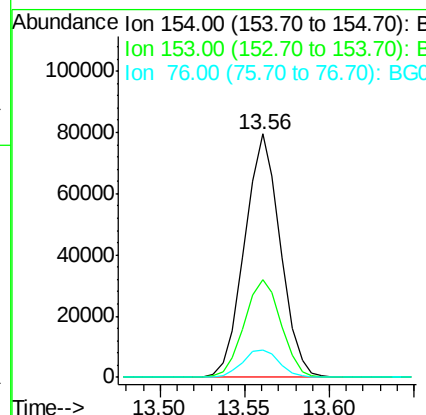
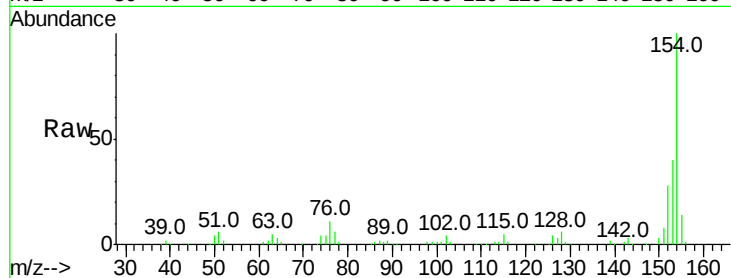
#41
 1,1'-Biphenyl
 Concen: 28.46 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. -0.00 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Instrument :
 BNA_G
 ClientSampleId :
 D9N41DL

Tot Ion	Ratio	Resp Lower	Upper
154	100		
153	40.1	35.5	53.3
76	11.4	10.4	15.6

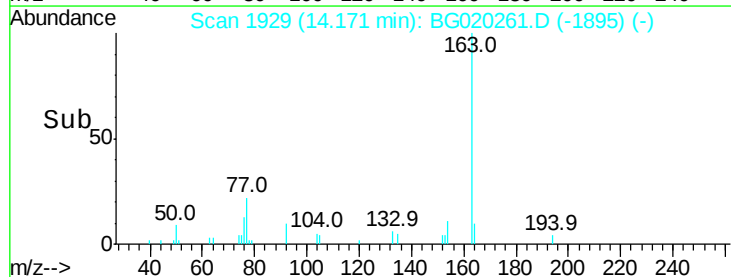
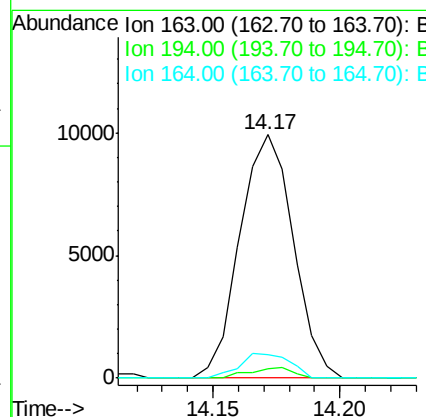
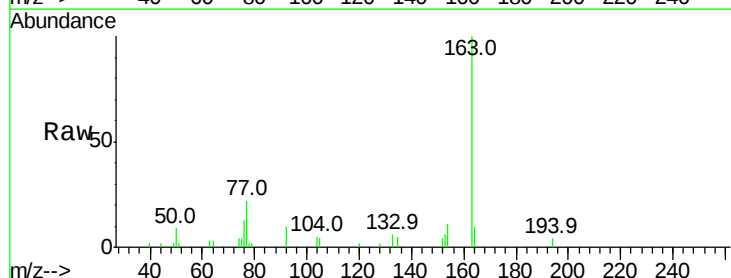
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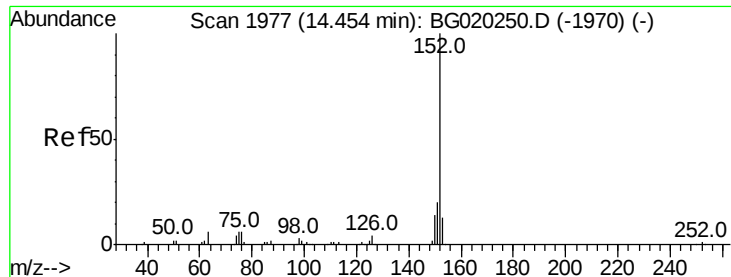
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#45
 Dimethylphthalate
 Concen: 3.24 ng/ul
 RT: 14.17 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.8	3.5	5.3
164	9.6	7.7	11.5





#48

Acenaphthylene

Concen: 7.15 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Instrument :

BNA_G

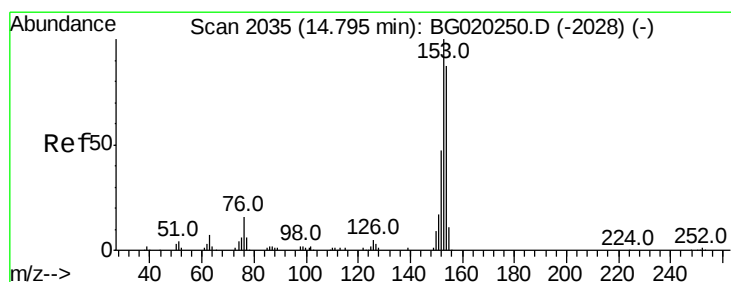
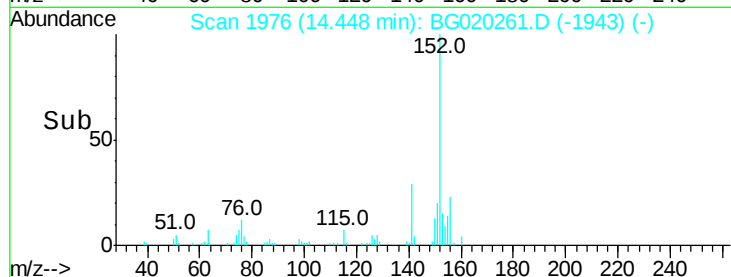
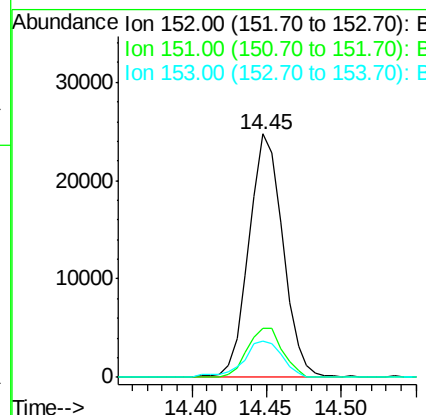
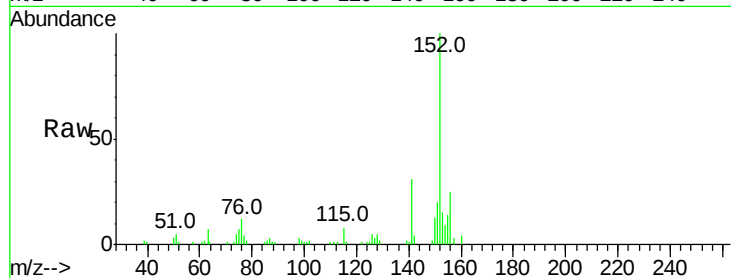
ClientSampleId :

D9N41DL

Tot Ion:	152	Resp:	39009
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.4	24.6
153	15.1	10.4	15.6

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#50

Acenaphthene

Concen: 138.44 ng/ul

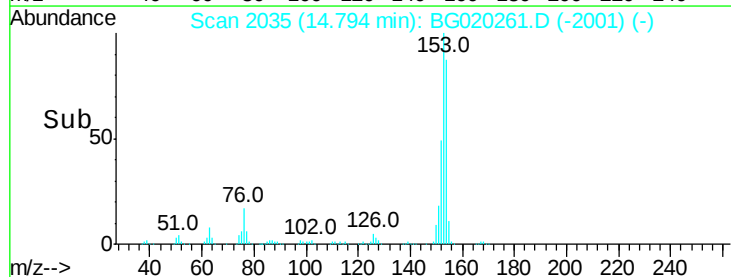
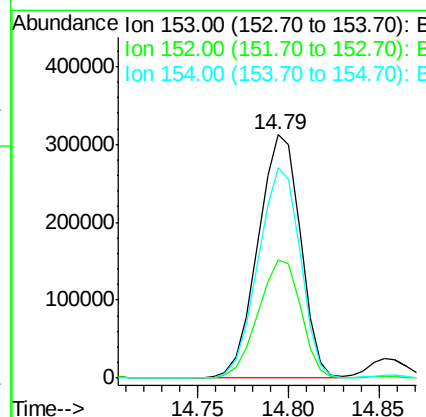
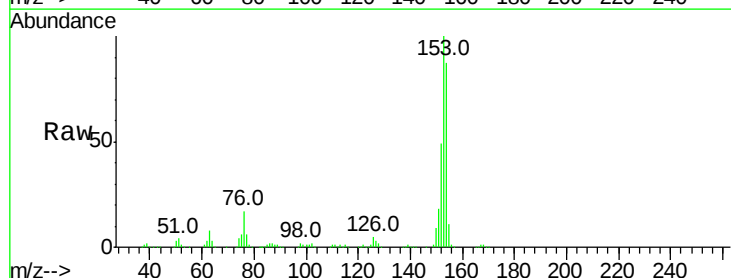
RT: 14.79 min Scan# 2035

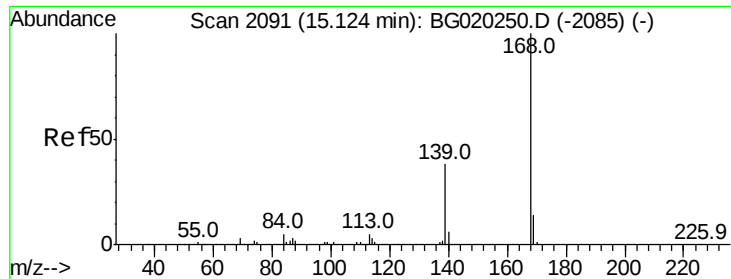
Delta R.T. -0.00 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Tgt Ion:	153	Resp:	508074
Ion Ratio	Lower	Upper	
153	100		
152	48.7	37.6	56.4
154	86.7	67.9	101.9





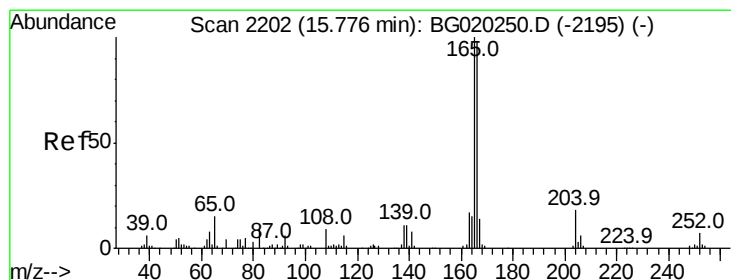
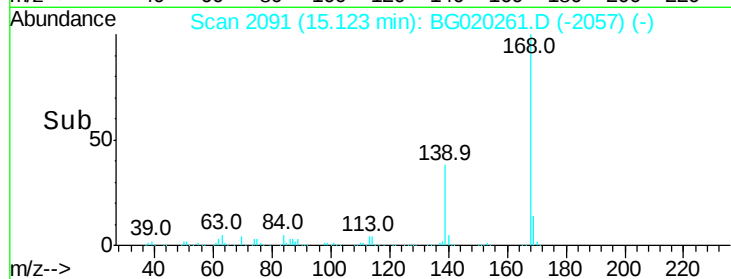
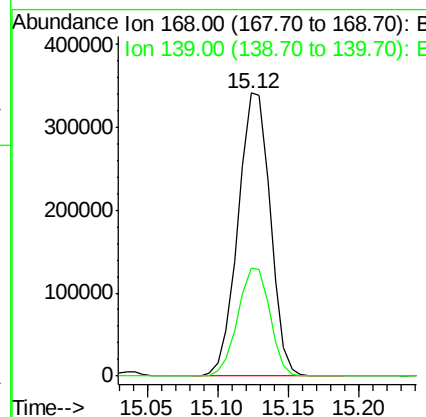
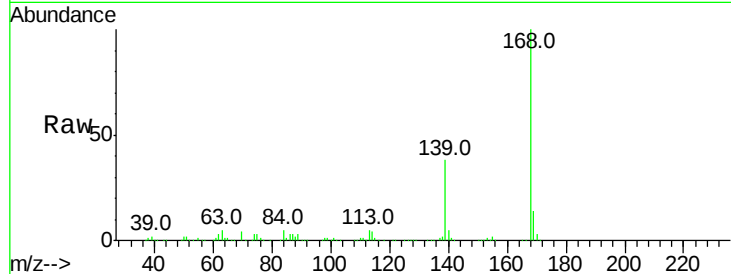
#54
Dibenzenofuran
Concen: 99.25 ng/ul
RT: 15.12 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Instrument :
BNA_G
ClientSampleId :
D9N41DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.4	30.5	45.7

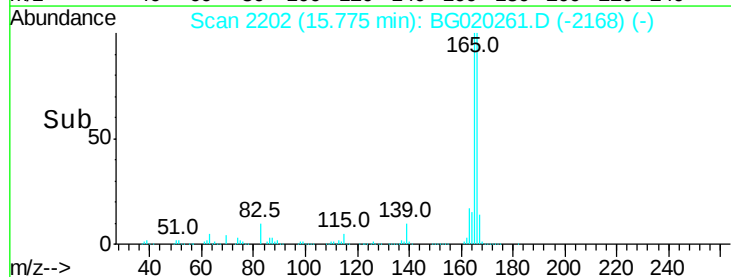
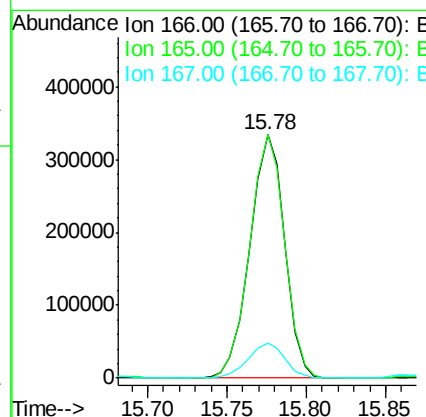
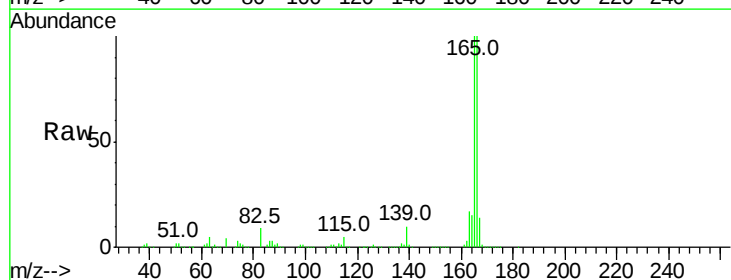
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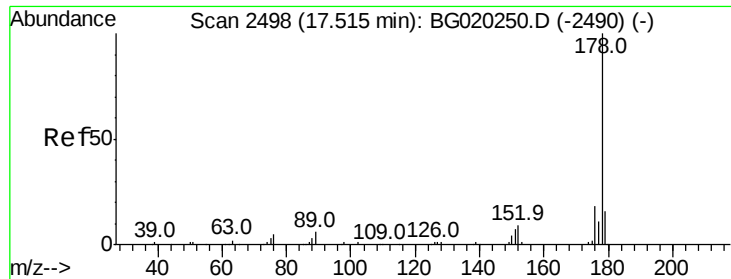
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#59
Fluorene
Concen: 115.89 ng/ul
RT: 15.78 min Scan# 2202
Delta R.T. -0.00 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.0	81.4	122.0
167	14.3	11.2	16.8





#70

Phenanthrene

Concen: 274.17 ng/ul m

RT: 17.53 min Scan# 2501

Delta R.T. 0.02 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Instrument :

BNA_G

ClientSampleId :

D9N41DL

Tot Ion:178 Resp: 2088516

Ion Ratio Lower Upper

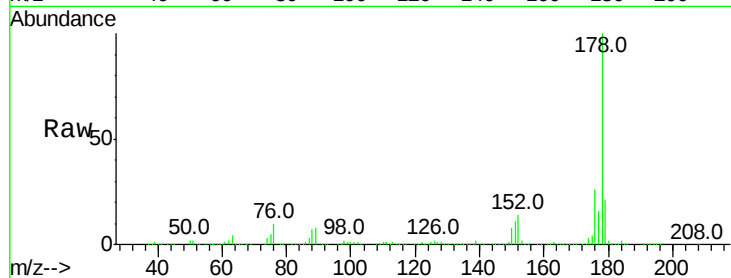
178 100

179 21.0 12.9 19.3#

176 26.2 15.3 22.9#

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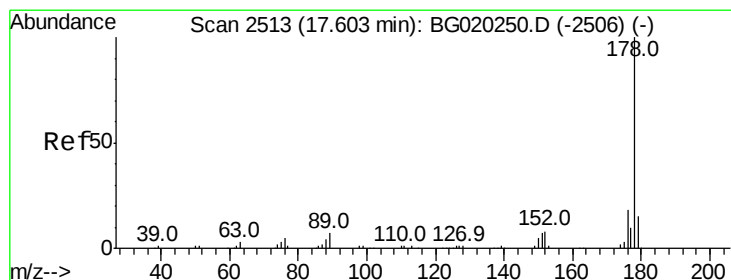
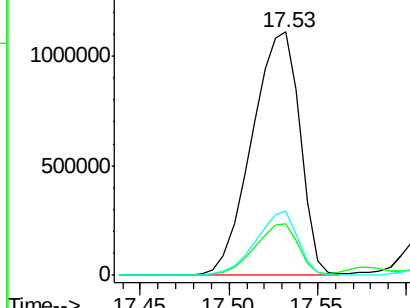
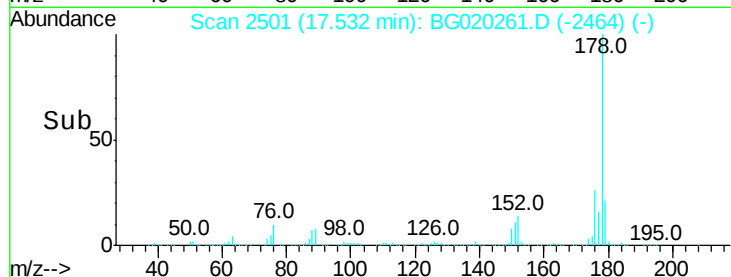
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 33.54 ng/ul

RT: 17.61 min Scan# 2514

Delta R.T. 0.01 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

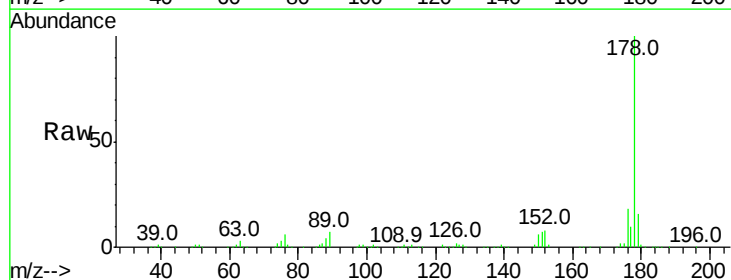
Tgt Ion:178 Resp: 259126

Ion Ratio Lower Upper

178 100

179 16.3 12.3 18.5

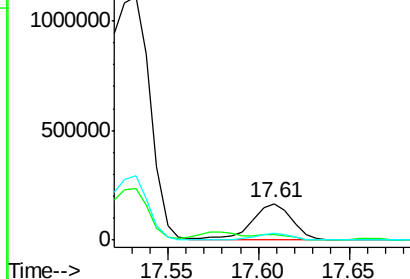
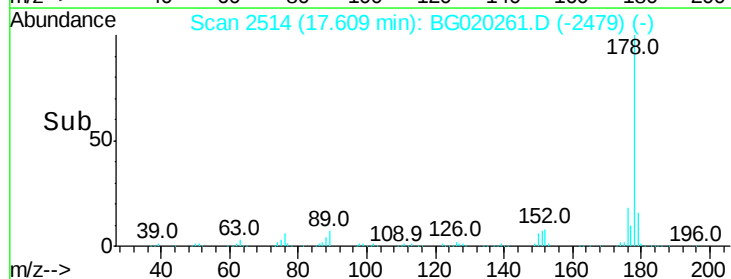
176 18.1 14.3 21.5

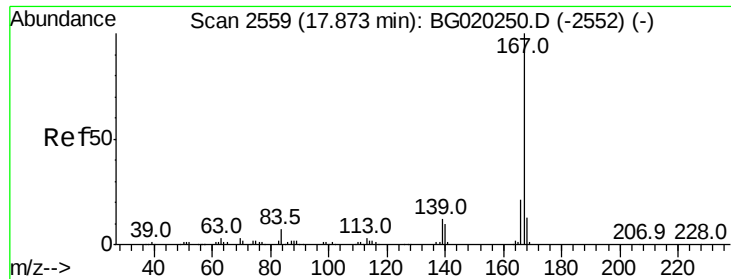


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 29.30 ng/ul

RT: 17.87 min Scan# 2559

Delta R.T. -0.00 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Instrument :

BNA_G

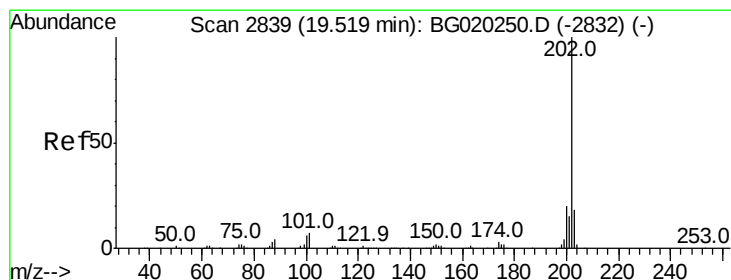
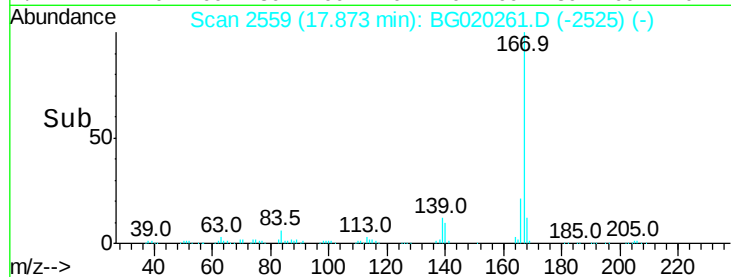
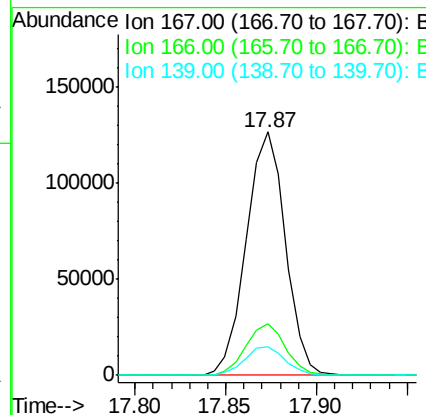
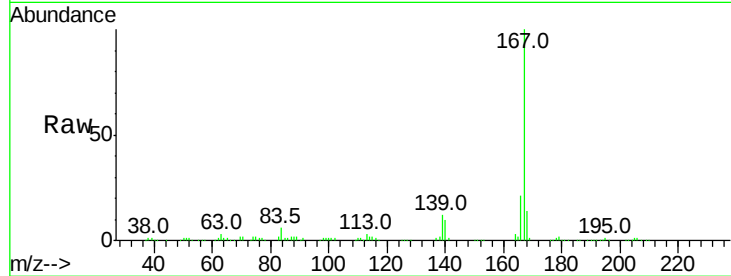
ClientSampleId :

D9N41DL

Tot Ion:	167	Resp:	190200
Ion Ratio	Lower	Upper	
167	100		
166	21.2	17.0	25.6
139	11.8	10.1	15.1

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#77

Fluoranthene

Concen: 147.37 ng/ul

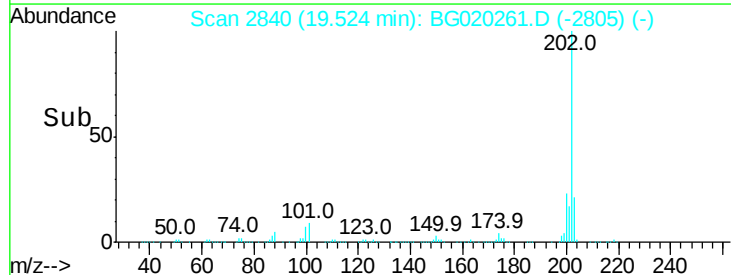
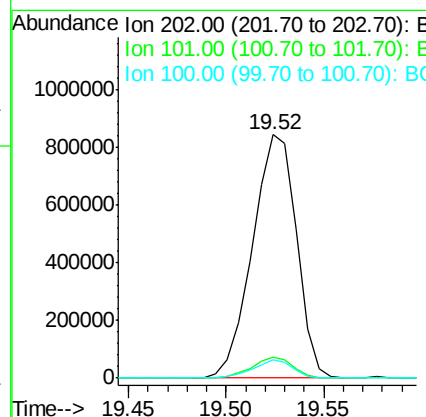
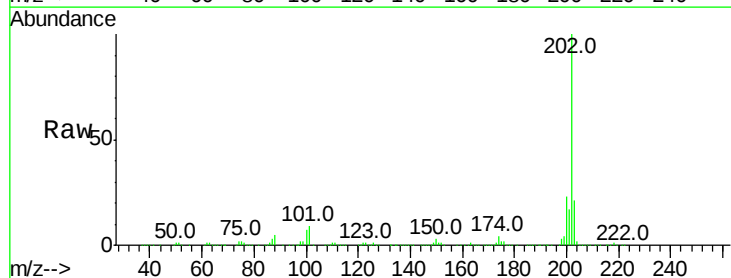
RT: 19.52 min Scan# 2840

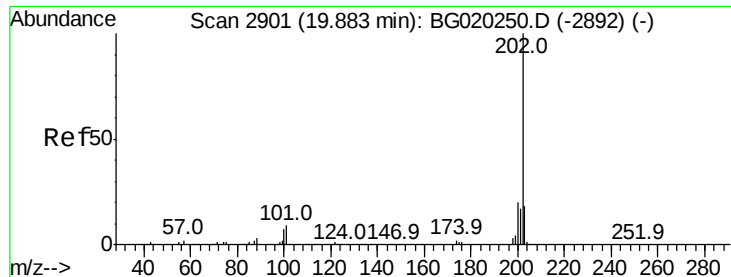
Delta R.T. 0.01 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Tgt Ion:	202	Resp:	1311973
Ion Ratio	Lower	Upper	
202	100		
101	8.8	6.2	9.4
100	7.4	5.1	7.7





#80

Pvrene

Concen: 85.66 ng/ul

RT: 19.88 min Scan# 2901

Delta R.T. -0.00 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Instrument :

BNA_G

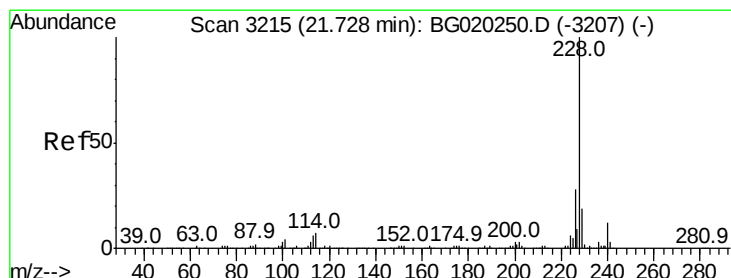
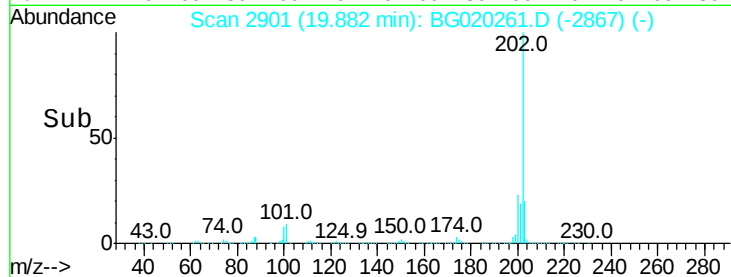
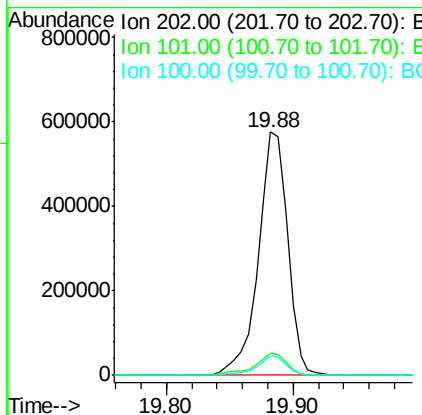
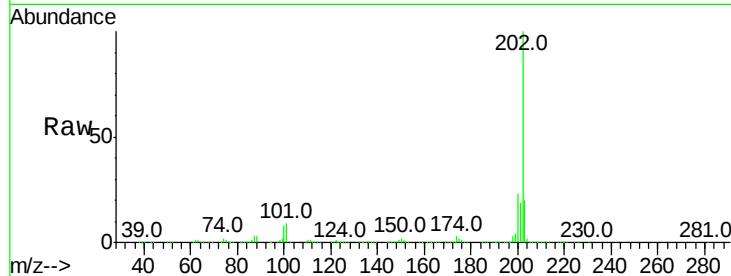
ClientSampleId :

D9N41DL

Tot Ion:	202	Resp:	930447
Ion Ratio	Lower	Upper	
202	100		
101	9.3	7.0	10.4
100	8.2	6.4	9.6

Manual Integrations
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#83

Benzo(a)anthracene

Concen: 21.61 ng/ul

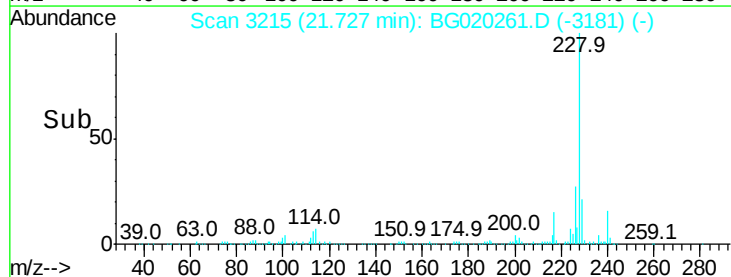
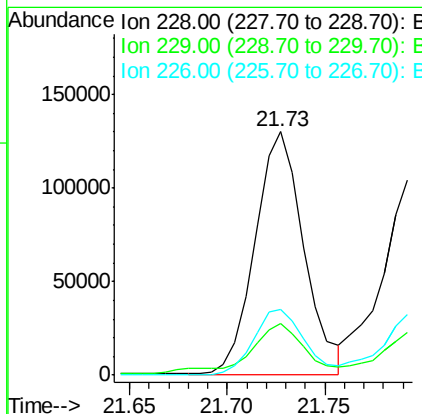
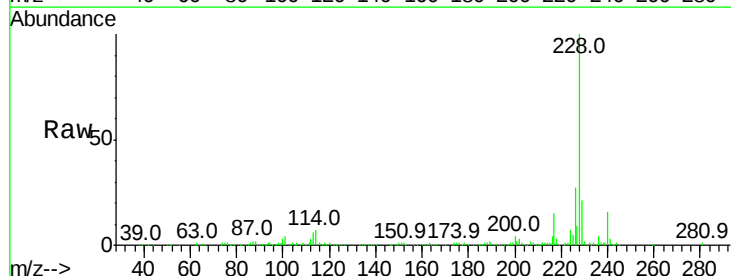
RT: 21.73 min Scan# 3215

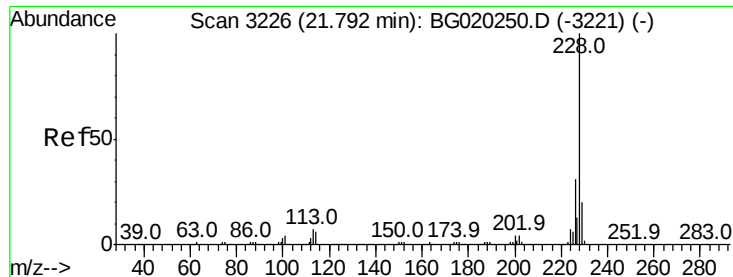
Delta R.T. -0.00 min

Lab File: BG020261.D

Acq: 18 Dec 2015 1:24

Tgt Ion:	228	Resp:	226340
Ion Ratio	Lower	Upper	
228	100		
229	21.0	15.8	23.8
226	27.0	21.8	32.6





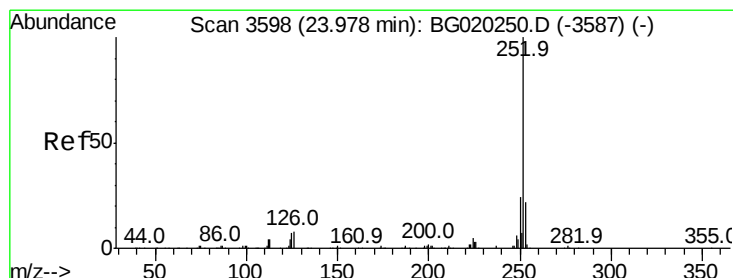
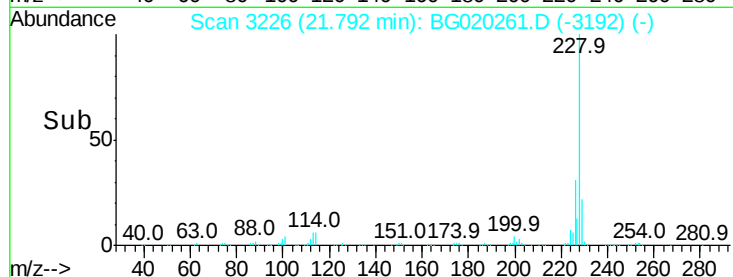
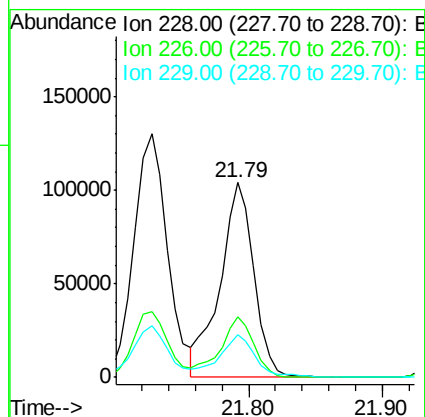
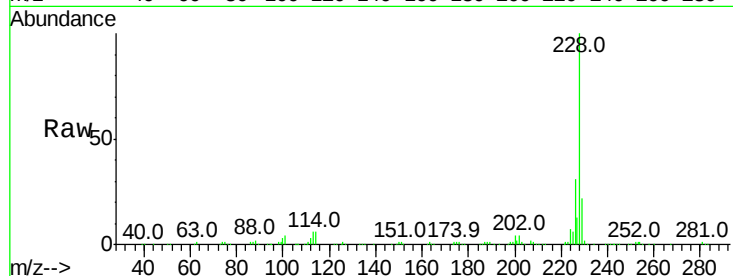
#85
 Chrvsene
 Concen: 18.61 ng/ul
 RT: 21.79 min Scan# 3226
 Delta R.T. -0.00 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Instrument :
 BNA_G
 ClientSampleId :
 D9N41DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.9	35.9
229	22.0	15.6	23.4

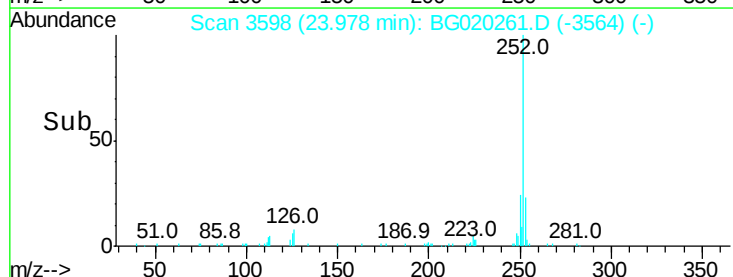
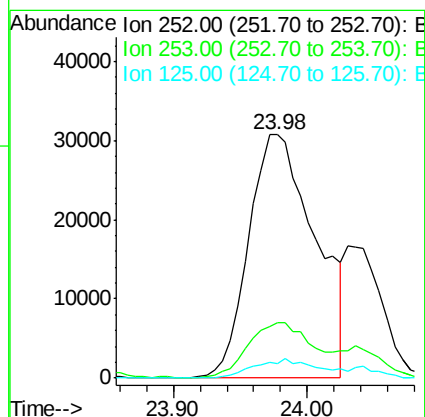
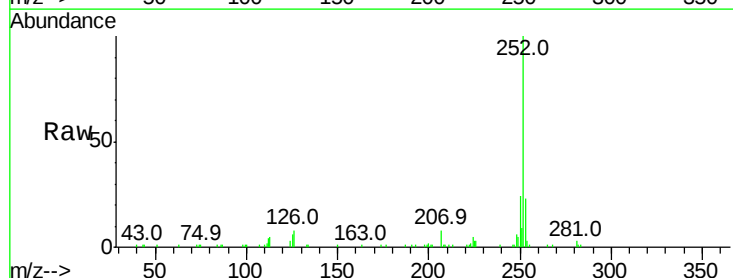
Manual Integrations
 APPROVED

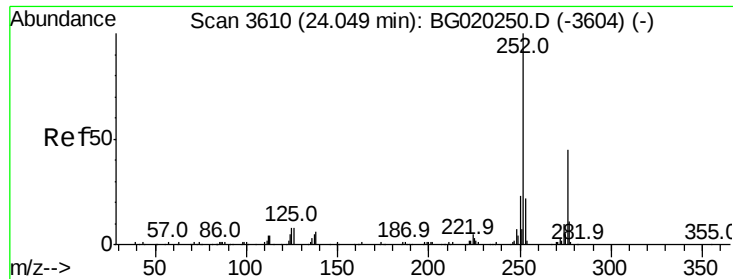
MMdadoda
 12/18/2015 6:20:22 PM



#88
 Benzo(b)fluoranthene
 Concen: 10.23 ng/ul
 RT: 23.98 min Scan# 3598
 Delta R.T. -0.00 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	16.7	25.1
125	6.2	6.2	9.2





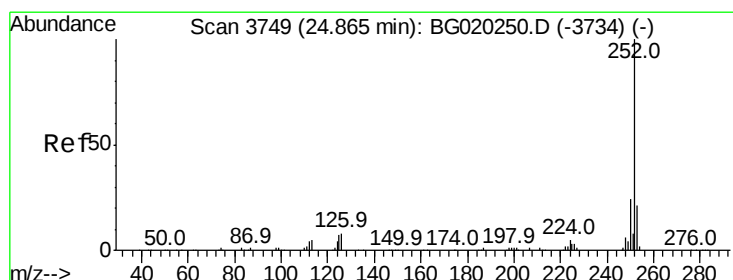
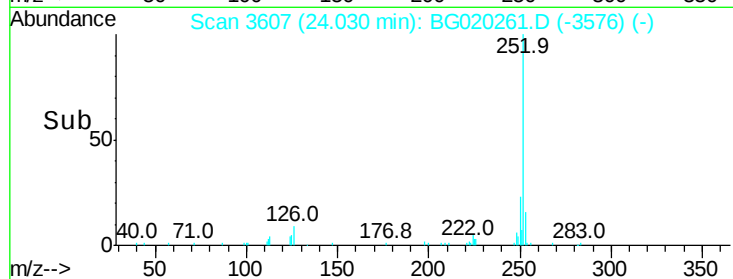
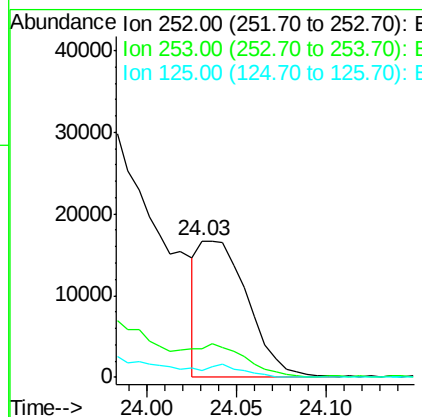
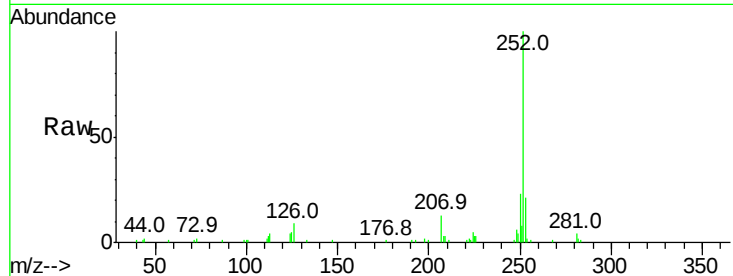
#89
Benzo(k)fluoranthene
Concen: 3.19 ng/ul m
RT: 24.03 min Scan# 3607
Delta R.T. -0.02 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Instrument :
BNA_G
ClientSampleId :
D9N41DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.9	26.9
125	5.4	5.8	8.6#

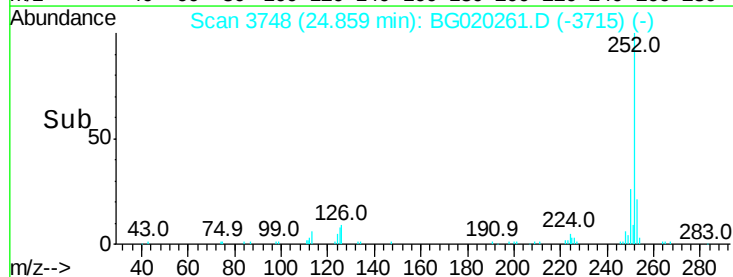
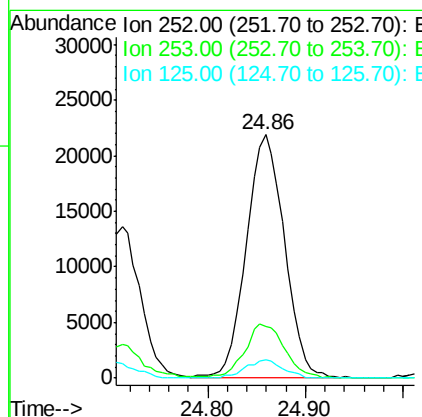
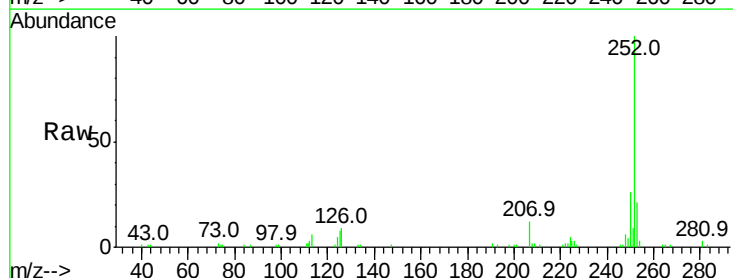
Manual Integrations
APPROVED

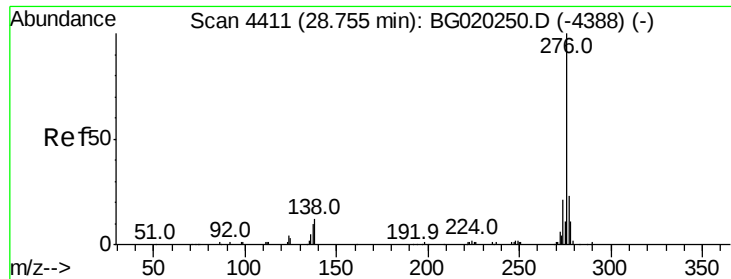
MMdadoda
12/18/2015 6:20:22 PM



#91
Benzo(a)pyrene
Concen: 6.10 ng/ul
RT: 24.86 min Scan# 3748
Delta R.T. -0.01 min
Lab File: BG020261.D
Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.0	25.4
125	7.7	6.2	9.4





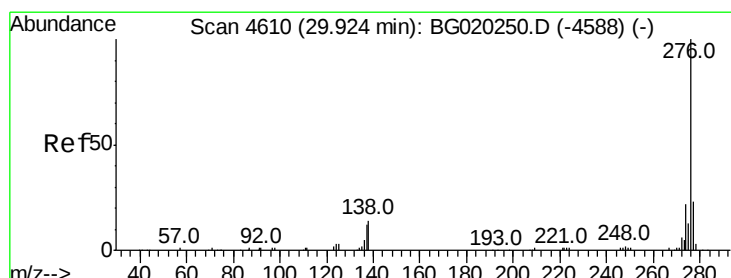
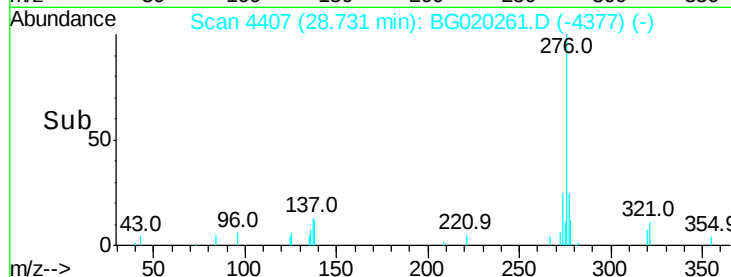
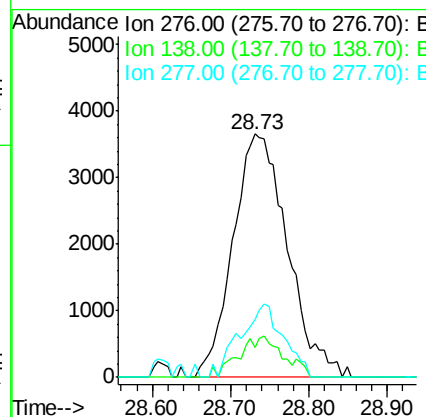
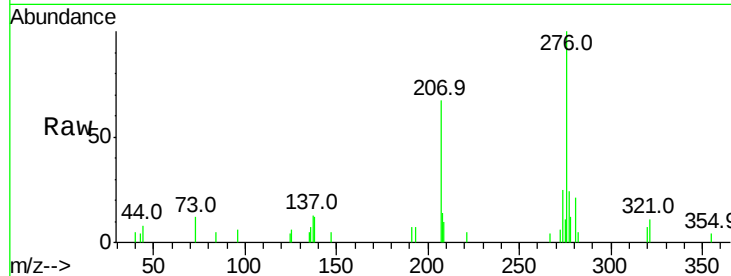
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 1.50 ng/ul m
 RT: 28.73 min Scan# 4407
 Delta R.T. -0.02 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Instrument :
 BNA_G
 ClientSampleId :
 D9N41DL

Tot Ion	Ratio	Resp	Lower	Upper
276	100	17615		
138	12.3		11.4	17.0
277	23.9		17.4	26.0

Manual Integrations
 APPROVED

MMdadoda
 12/18/2015 6:20:22 PM



#94
 Benzo(g,h,i)perylene
 Concen: 1.42 ng/ul m
 RT: 29.90 min Scan# 4606
 Delta R.T. -0.02 min
 Lab File: BG020261.D
 Acq: 18 Dec 2015 1:24

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	13722		
138	13.3		10.8	16.2
277	21.9		19.9	29.9

