

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\
 Data File : BG020533.D
 Acq On : 26 Dec 2015 10:16
 Operator : UM/SJ
 Sample : G4802-12
 Misc :
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D87

Manual Integrations
 APPROVED

Sohil
 12/28/2015 6:06:43 PM

Quant Time: Dec 28 06:37:47 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 06:13:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	20678	20.00	ng/ul	0.00
18) Naphthalene-d8	10.89	136	88403	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	61545	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	145320	20.00	ng/ul	0.00
78) Chrysene-d12	21.73	240	182182	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	182725	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	855	2.28	ng/uL	0.00
5) Phenol-d5	7.23	99	23931	14.42	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	16093	16.37	ng/ul	0.00
9) 2-Chlorophenol-d4	7.60	132	20111	15.80	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	14751	10.57	ng/ul	0.00
19) Nitrobenzene-d5	9.24	128	11301	16.31	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	13503	17.14	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	22576	14.81	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	14644	8.41	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	76508	15.08	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	98261	16.72	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	7902	9.34	ng/ul	0.00
58) Fluorene-d10	15.70	176	75861	16.54	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	8019	8.33	ng/ul	0.00
71) Anthracene-d10	17.56	188	119195	17.51	ng/ul	0.00
79) Pyrene-d10	19.84	212	140632	17.83	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	163481	17.70	ng/ul	0.02

Target Compounds

						Ovalue
28) Naphthalene	10.95	128	212043	45.12	ng/ul	98
34) 2-Methylnaphthalene	12.54	142	101139	29.09	ng/ul	100
41) 1,1'-Biphenyl	13.54	154	16645	3.50	ng/ul	97
45) Dimethylphthalate	14.15	163	44101	8.55	ng/ul	99
48) Acenaphthylene	14.44	152	90659	14.68	ng/ul	99
50) Acenaphthene	14.77	153	12737	3.05	ng/ul	93
54) Dibenzofuran	15.11	168	10512	1.69	ng/ul	91
59) Fluorene	15.76	166	38627	7.67	ng/ul	96
70) Phenanthrene	17.50	178	236159	29.21	ng/ul	99
72) Anthracene	17.59	178	51660	6.25	ng/ul	100
77) Fluoranthene	19.51	202	127853	12.57	ng/ul	98
80) Pyrene	19.87	202	273072	26.51	ng/ul	97
83) Benzo(a)anthracene	21.71	228	128200	11.98	ng/ul#	89
85) Chrysene	21.78	228	160150	15.71	ng/ul	91
88) Benzo(b)fluoranthene	23.97	252	299827	27.34	ng/ul	96
89) Benzo(k)fluoranthene	24.02	252	47728m	4.50	ng/ul	
91) Benzo(a)pyrene	24.86	252	306676	29.09	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.74	276	200883	15.91	ng/ul	97
93) Dibenzo(a,h)anthracene	28.78	278	66256	6.32	ng/ul	96
94) Benzo(g,h,i)perylene	29.92	276	239938	23.14	ng/ul	98

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

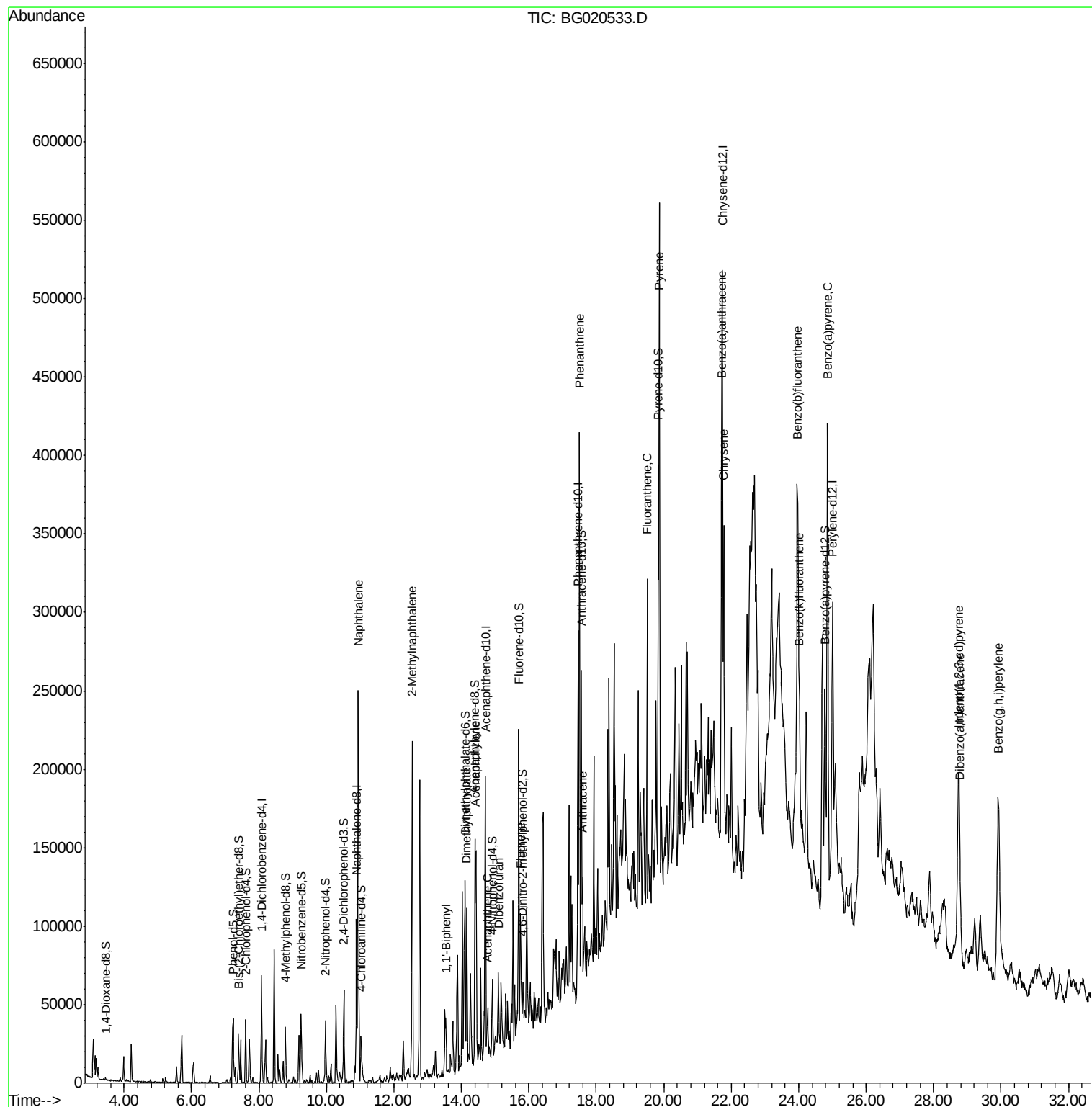
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\
Data File : BG020533.D
Acq On : 26 Dec 2015 10:16
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ALS Vial : 70 Sample Multiplier: 1

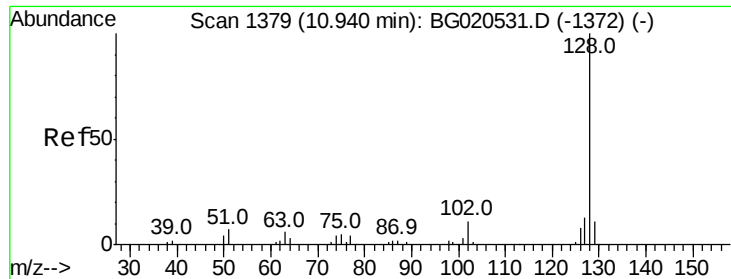
Instrument :
BNA_G
ClientSampled :
G9D87

Manual Integrations
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Quant Time: Dec 28 06:37:47 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 06:13:05 2015
Response via : Initial Calibration





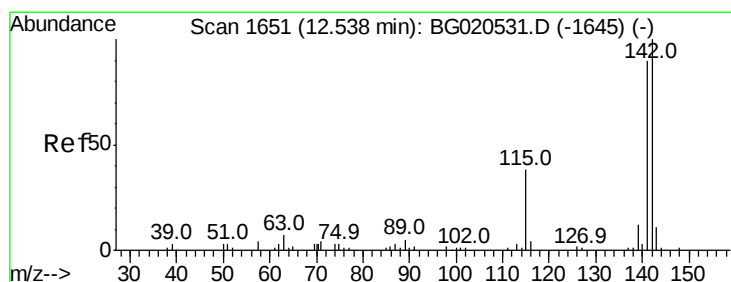
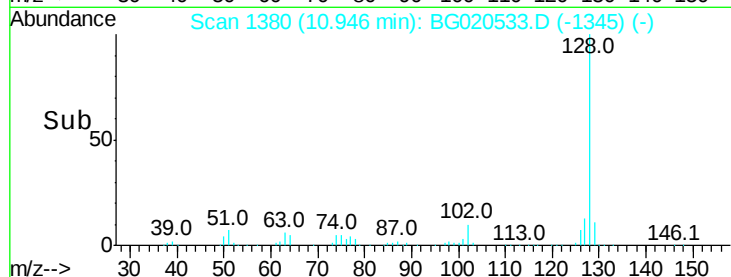
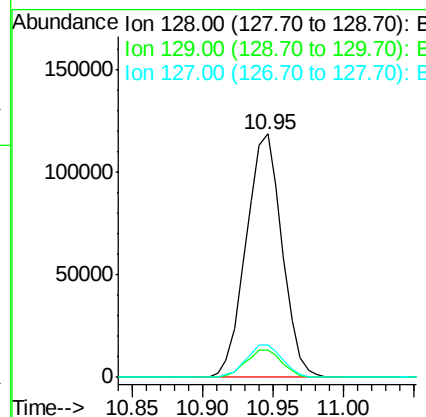
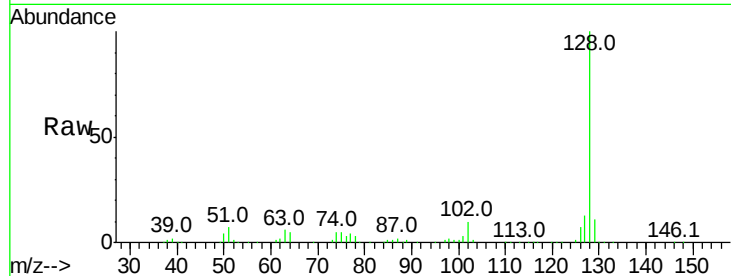
#28
Naphthalene
Concen: 45.12 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Instrument :
BNA_G
ClientSampleId :
G9D87

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	12.8
127	13.4	10.1	15.1

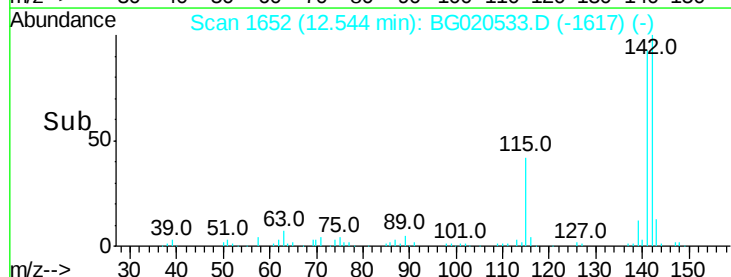
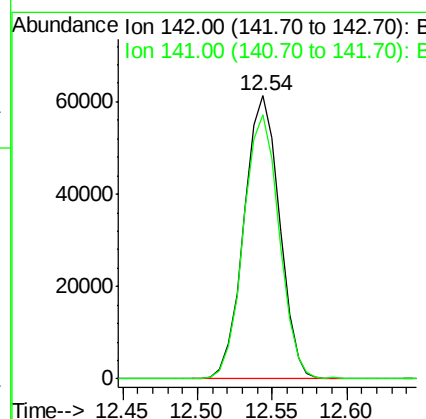
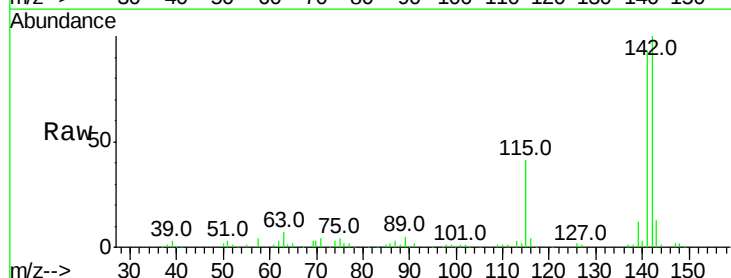
Manual Integrations
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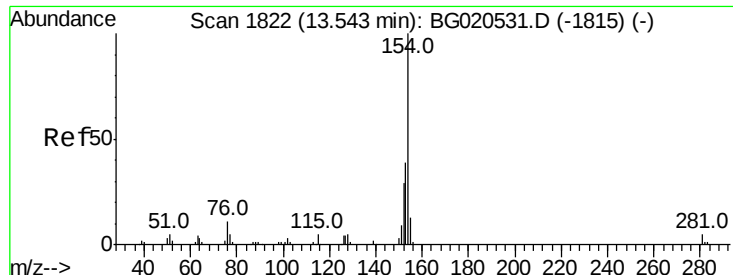
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#34
2-Methylnaphthalene
Concen: 29.09 ng/ul
RT: 12.54 min Scan# 1652
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.4	74.9	112.3





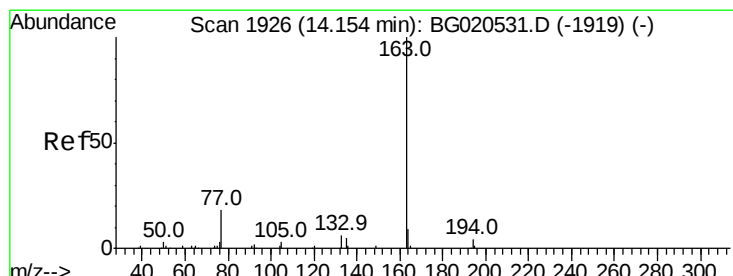
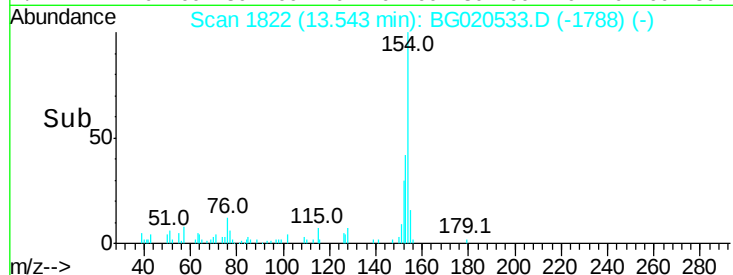
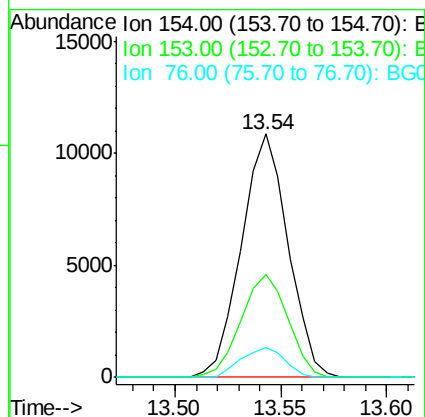
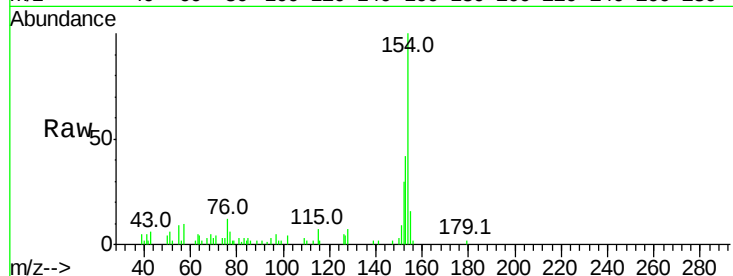
#41
 1,1'-Biphenyl
 Concen: 3.50 ng/ul
 RT: 13.54 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: BG020533.D
 Acq: 26 Dec 2015 10:16

Instrument :
 BNA_G
 ClientSampleId :
 G9D87

Tot Ion:	154	Resp:	16645
Ion Ratio	Lower	Upper	
154	100		
153	42.5	35.5	53.3
76	12.2	10.4	15.6

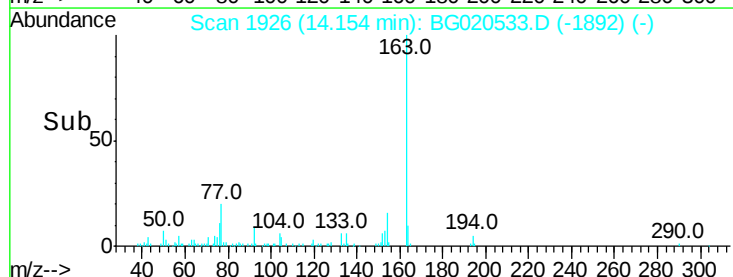
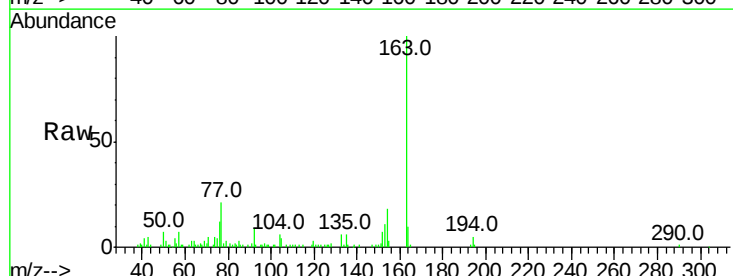
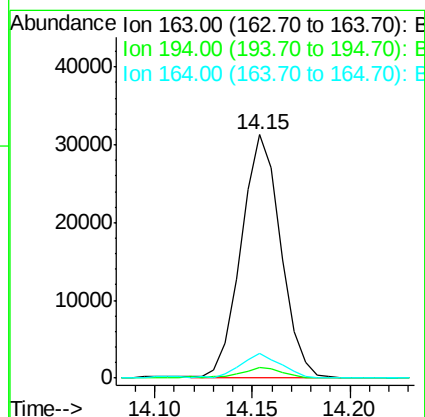
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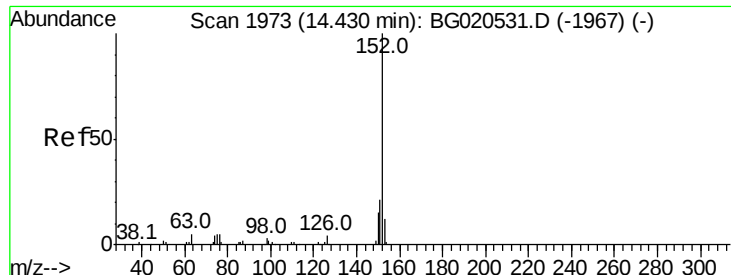
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#45
 Dimethylphthalate
 Concen: 8.55 ng/ul
 RT: 14.15 min Scan# 1926
 Delta R.T. -0.00 min
 Lab File: BG020533.D
 Acq: 26 Dec 2015 10:16

Tgt Ion:	163	Resp:	44101
Ion Ratio	Lower	Upper	
163	100		
194	4.6	3.5	5.3
164	10.2	7.7	11.5





#48

Acenaphthylene

Concen: 14.68 ng/ul

RT: 14.44 min Scan# 1974

Delta R.T. 0.01 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Instrument :

BNA_G

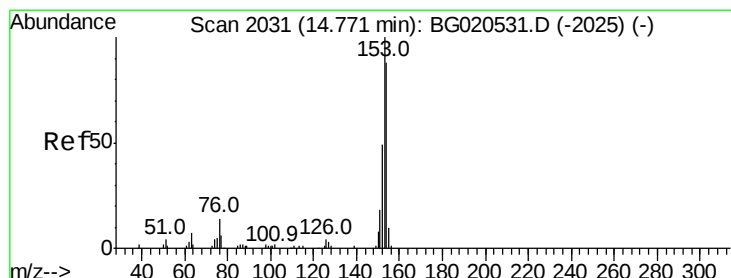
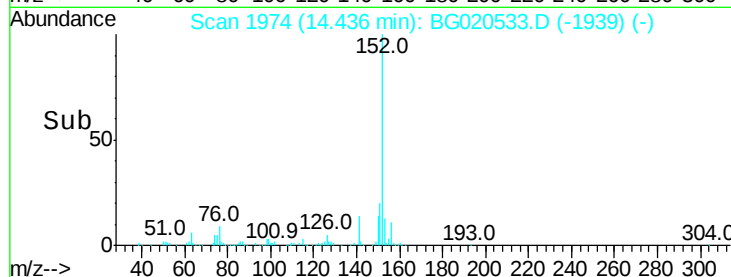
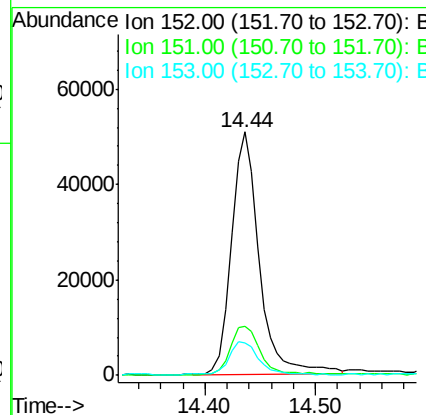
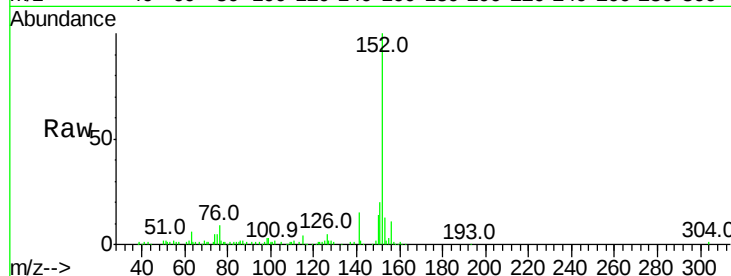
ClientSampleId :

G9D87

Tot Ion:	152	Resp:	90659
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.4	24.6
153	13.3	10.4	15.6

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#50

Acenaphthene

Concen: 3.05 ng/ul

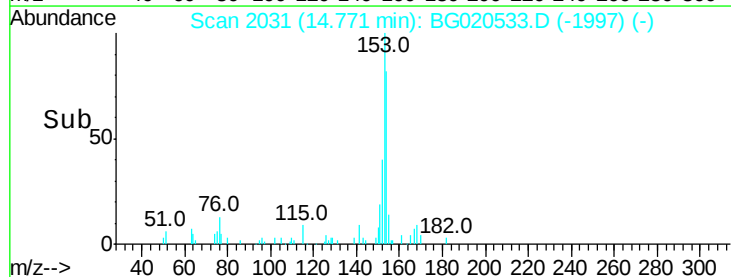
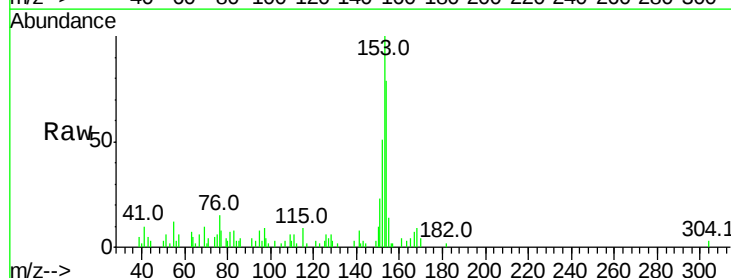
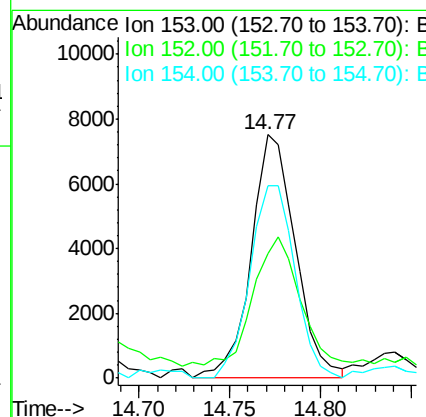
RT: 14.77 min Scan# 2031

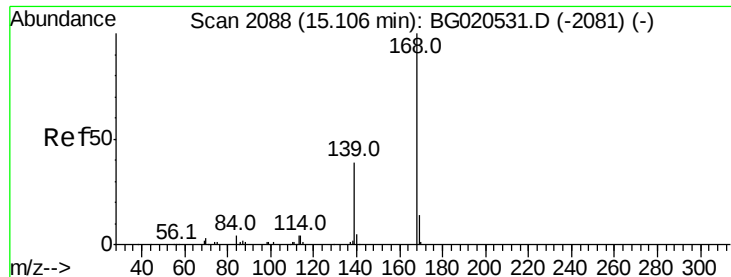
Delta R.T. -0.00 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Tgt Ion:	153	Resp:	12737
Ion Ratio	Lower	Upper	
153	100		
152	51.3	37.6	56.4
154	78.9	67.9	101.9





#54

Dibenzenofuran

Concen: 1.69 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. -0.00 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Instrument :

BNA_G

ClientSampleId :

G9D87

Tot Ion:168 Resp: 10512

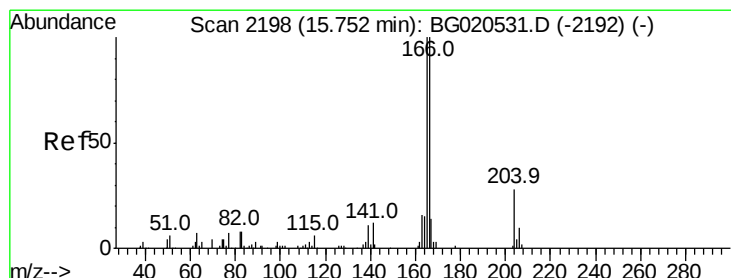
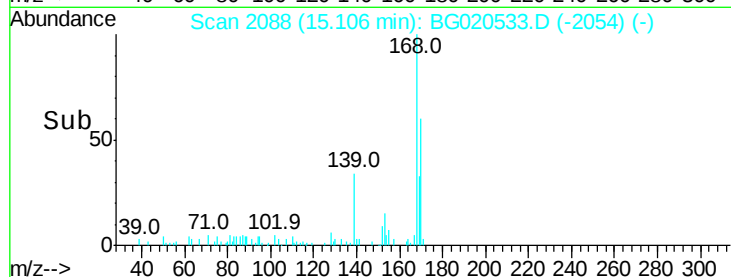
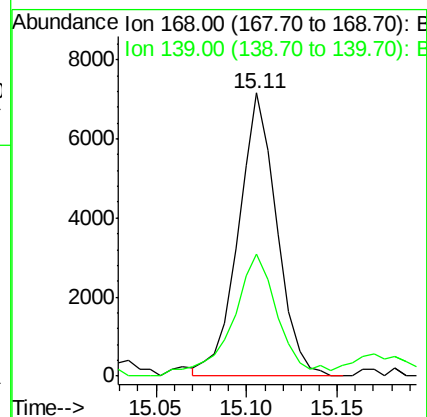
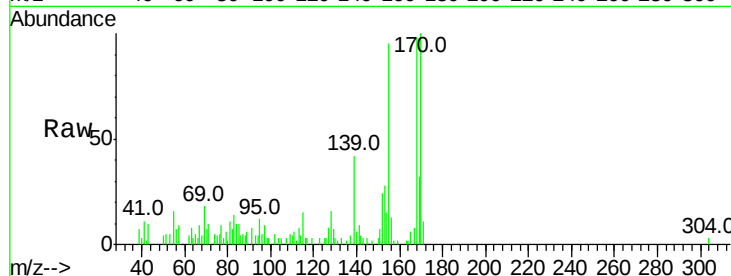
Ion Ratio Lower Upper

168 100

139 43.3 30.5 45.7

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#59

Fluorene

Concen: 7.67 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. 0.01 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

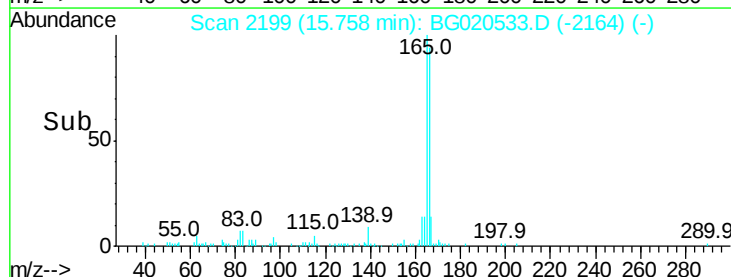
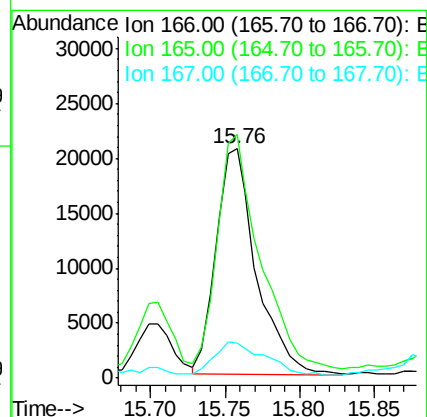
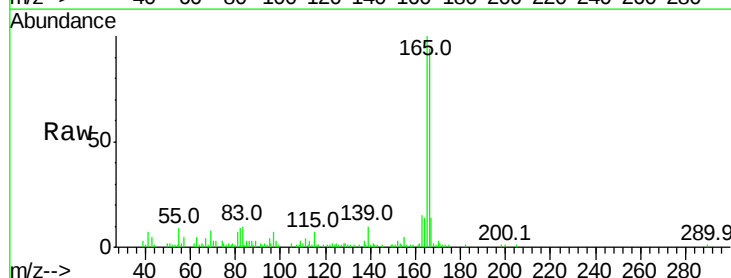
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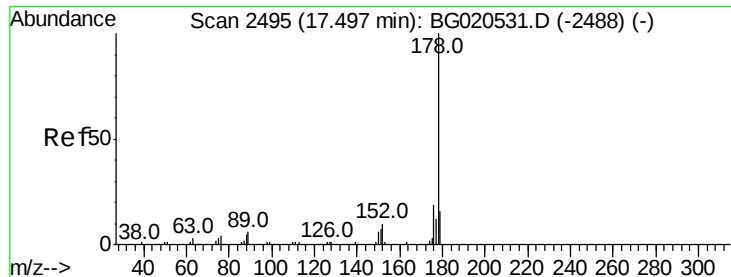
Ion Ratio Lower Upper

166 100

165 106.3 81.4 122.0

167 15.1 11.2 16.8





#70

Phenanthrene

Concen: 29.21 ng/ul

RT: 17.50 min Scan# 2495

Delta R.T. -0.00 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Instrument :

BNA_G

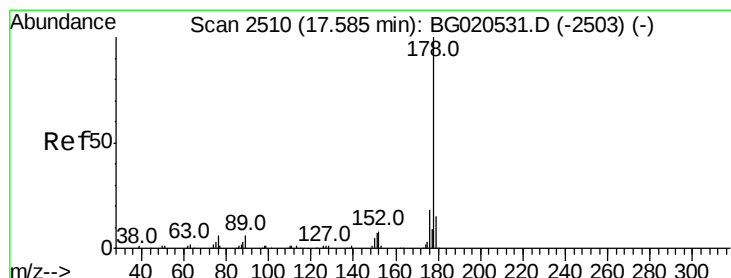
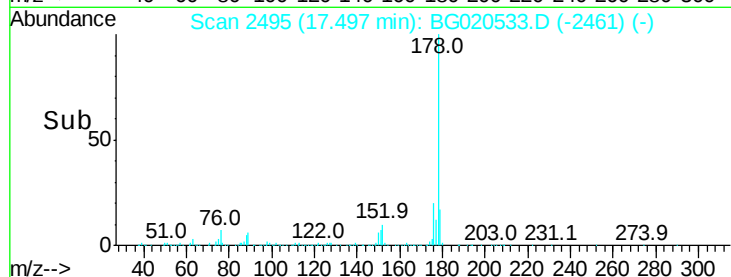
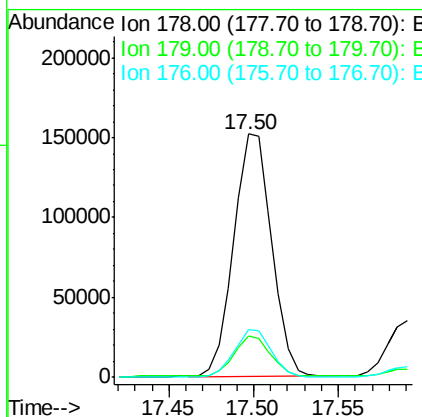
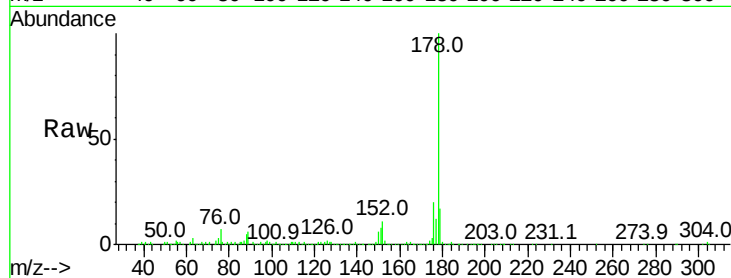
ClientSampleId :

G9D87

Tot Ion:	178	Resp:	236159
Ion Ratio	Lower	Upper	
178	100		
179	16.8	12.9	19.3
176	19.6	15.3	22.9

Manual Integrations
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#72

Anthracene

Concen: 6.25 ng/ul

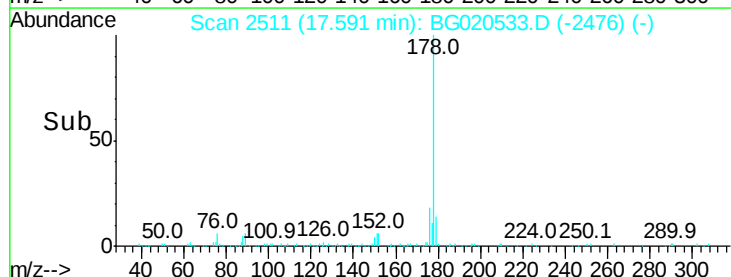
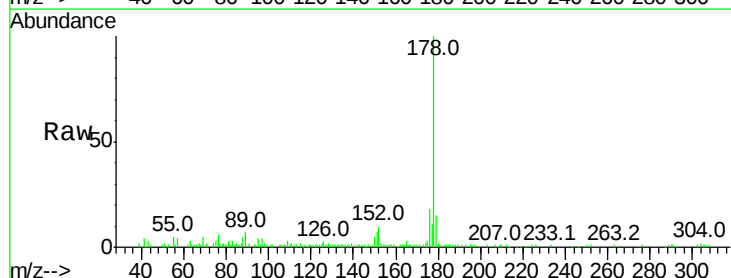
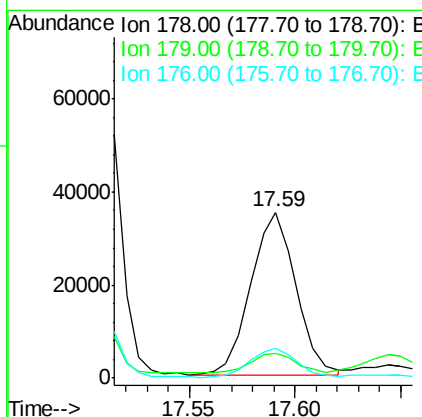
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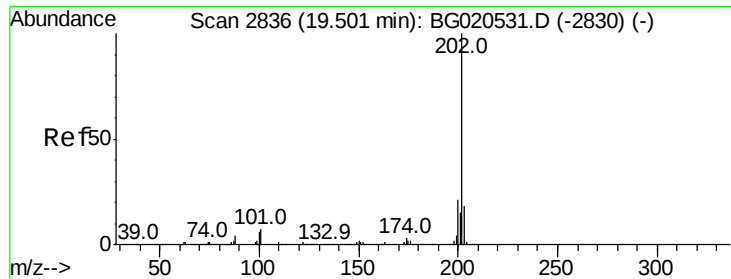
Delta R.T. 0.01 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Tgt Ion:	178	Resp:	51660
Ion Ratio	Lower	Upper	
178	100		
179	15.3	12.3	18.5
176	18.2	14.3	21.5





#77

Fluoranthene

Concen: 12.57 ng/ul

RT: 19.51 min Scan# 2837

Delta R.T. 0.01 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Instrument :

BNA_G

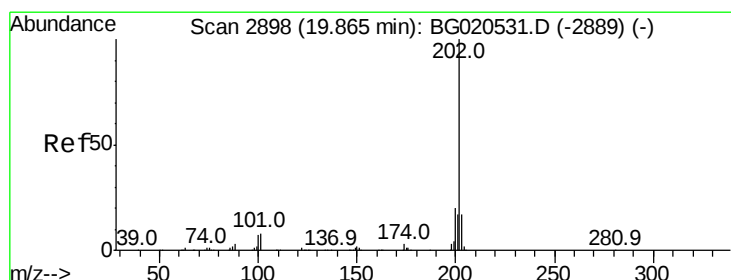
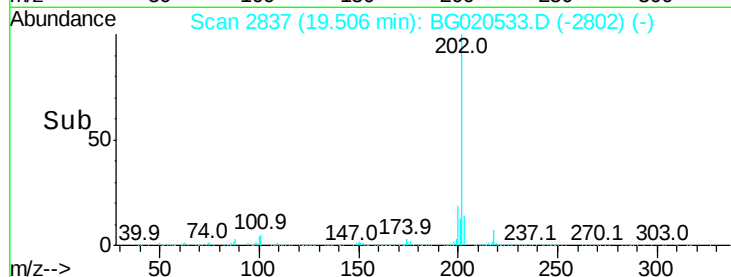
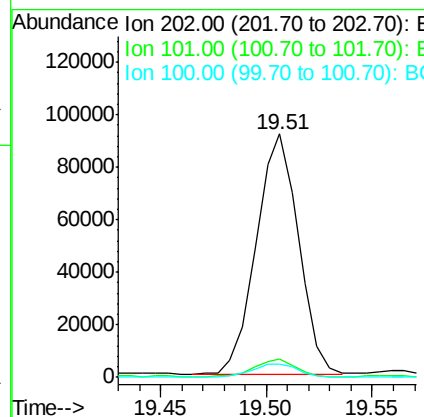
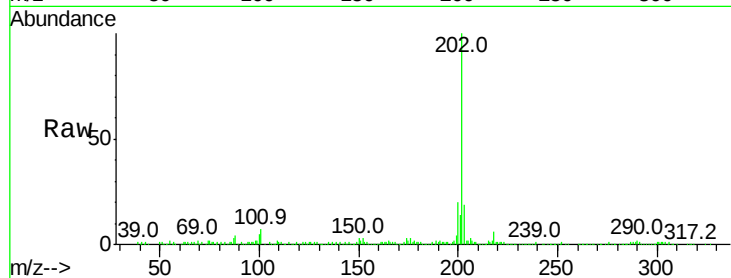
ClientSampleId :

G9D87

Tot Ion:	202	Resp:	127853
Ion Ratio	Lower	Upper	
202	100		
101	7.5	6.2	9.4
100	5.2	5.1	7.7

Manual Integrations
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#80

Pyrene

Concen: 26.51 ng/ul

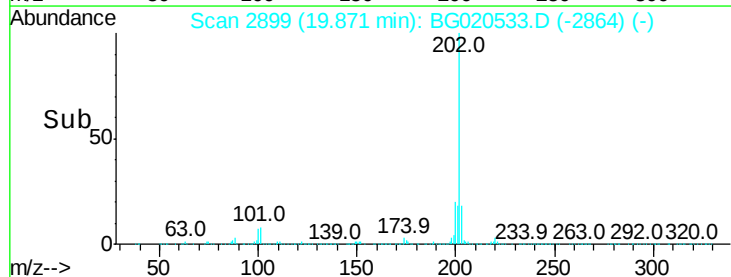
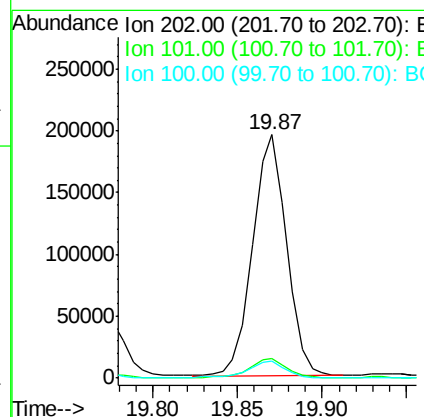
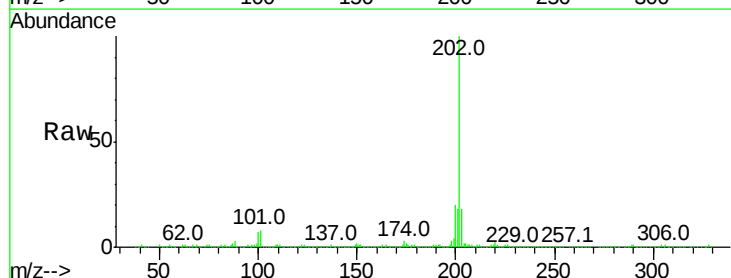
RT: 19.87 min Scan# 2899

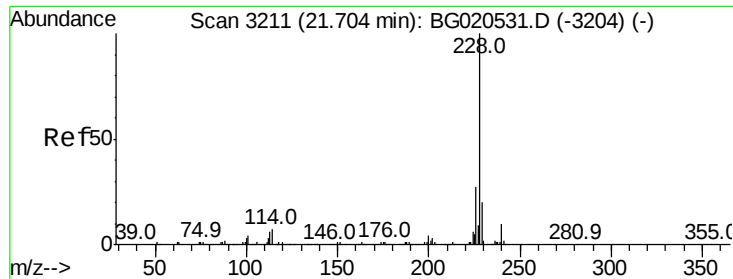
Delta R.T. 0.01 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Tgt Ion:	202	Resp:	273072
Ion Ratio	Lower	Upper	
202	100		
101	7.8	7.0	10.4
100	6.8	6.4	9.6





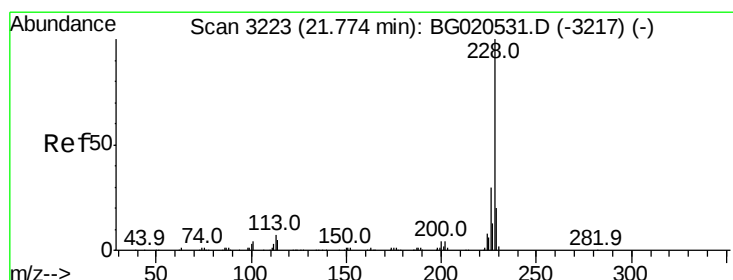
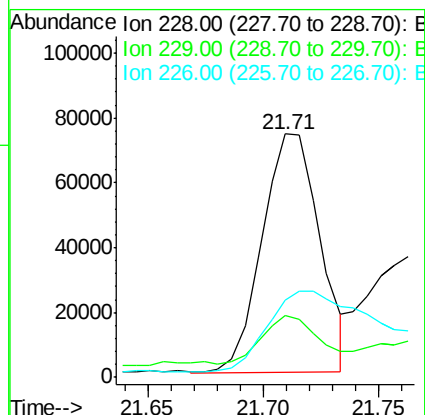
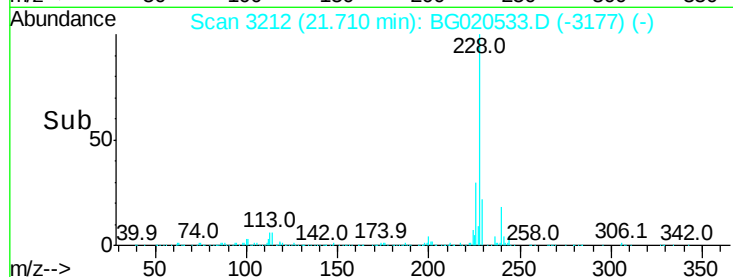
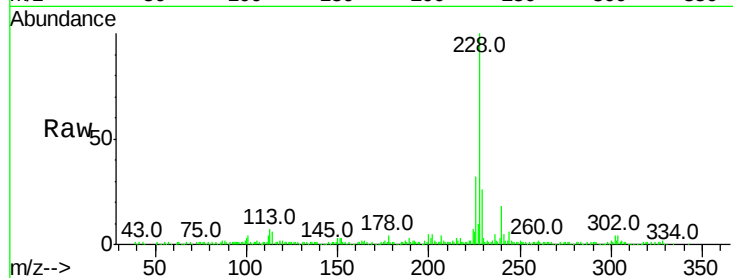
#83
Benzo(a)anthracene
Concen: 11.98 ng/ul
RT: 21.71 min Scan# 3212
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Instrument :
BNA_G
ClientSampleId :
G9D87

Tot Ion	Ratio	Lower	Upper
228	100		
229	25.6	15.8	23.8#
226	32.0	21.8	32.6

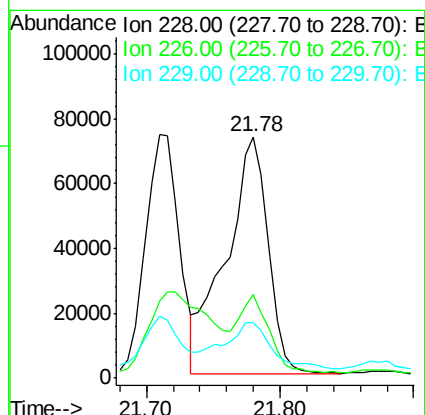
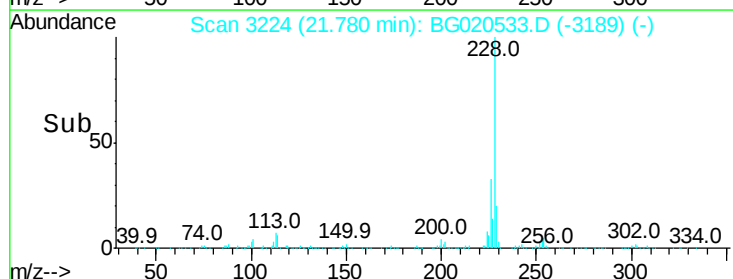
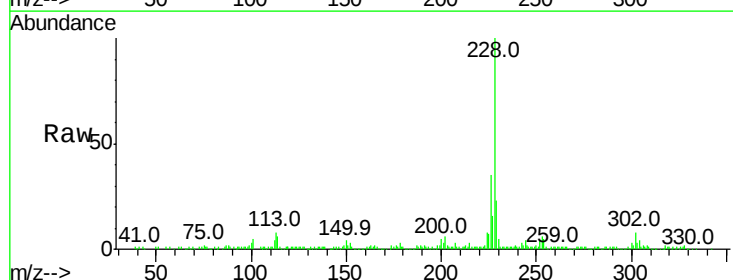
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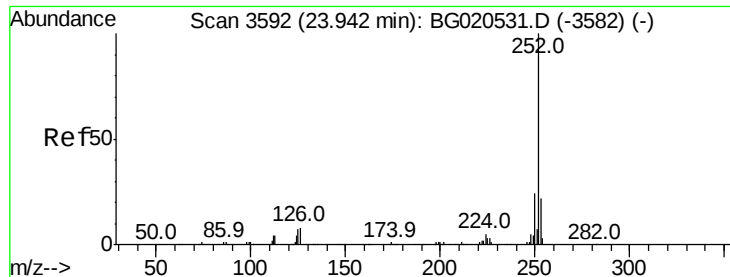
Sohil
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#85
Chrysene
Concen: 15.71 ng/ul
RT: 21.78 min Scan# 3224
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.7	23.9	35.9
229	23.2	15.6	23.4





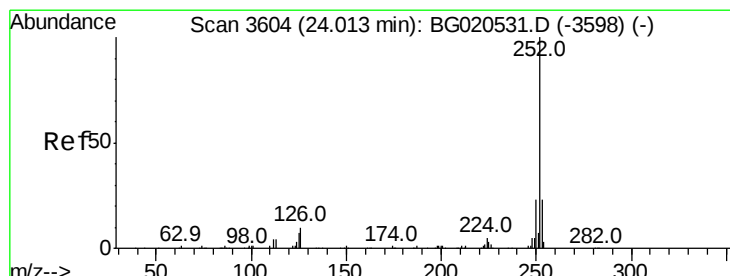
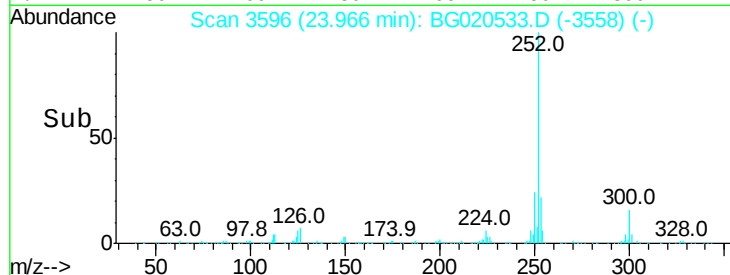
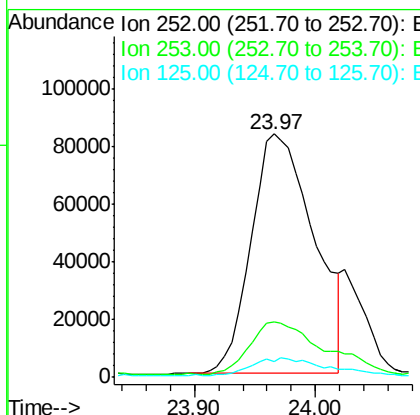
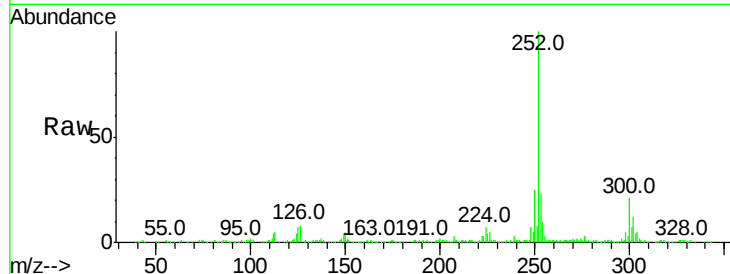
#88
Benzo(b)fluoranthene
Concen: 27.34 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. 0.02 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Instrument :
BNA_G
ClientSampleId :
G9D87

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	16.7	25.1
125	6.6	6.2	9.2

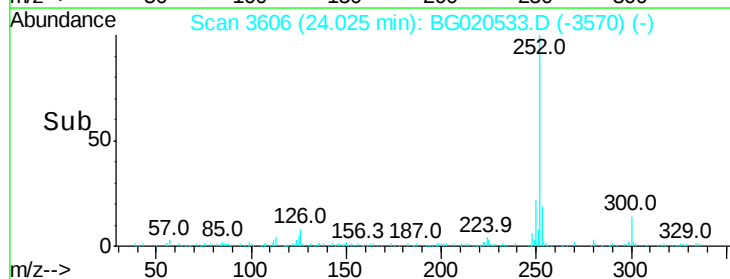
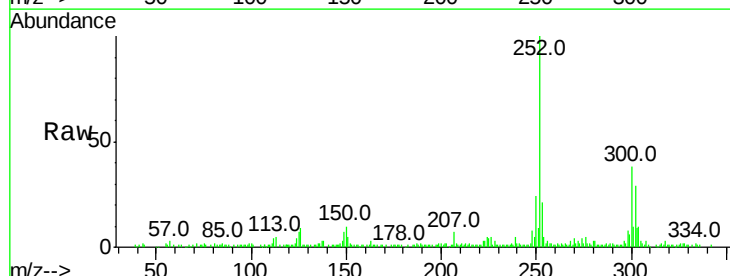
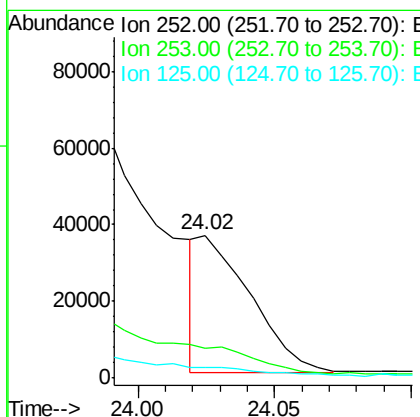
Manual Integrations
APPROVED

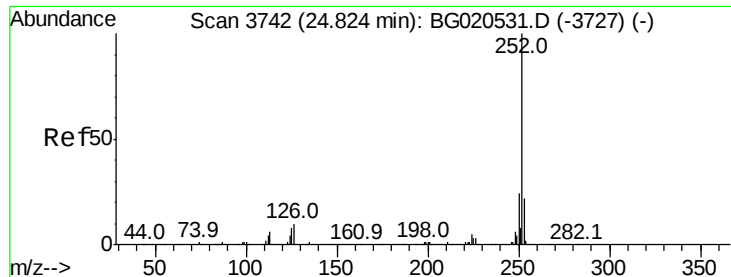
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#89
Benzo(k)fluoranthene
Concen: 4.50 ng/ul m
RT: 24.02 min Scan# 3606
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.9	26.9
125	7.3	5.8	8.6





#91

Benzo(a)pyrene

Concen: 29.09 ng/ul

RT: 24.86 min Scan# 3748

Delta R.T. 0.04 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Instrument :

BNA_G

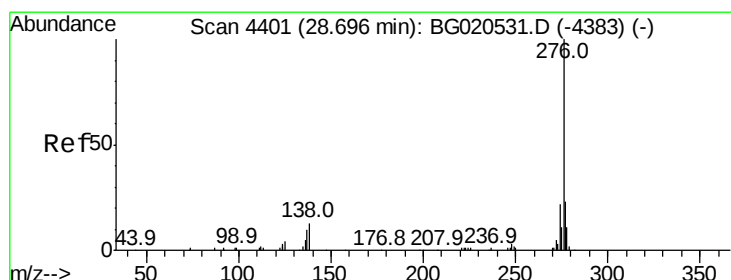
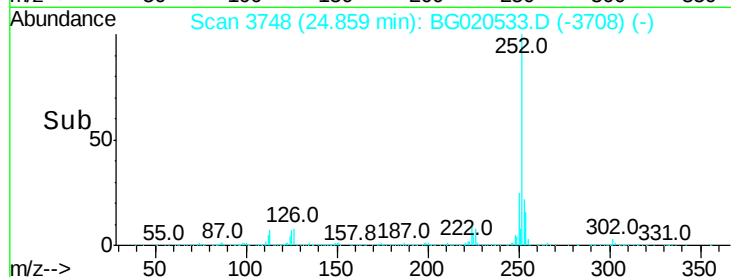
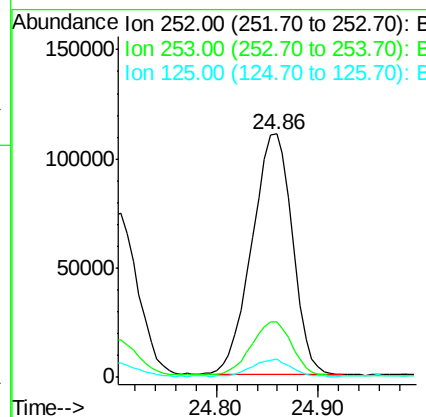
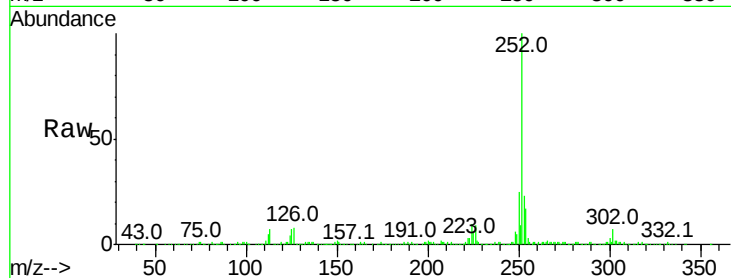
ClientSampleId :

G9D87

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.4
125	7.3	6.2	9.4

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#92

Indeno(1,2,3-cd)pyrene

Concen: 15.91 ng/ul

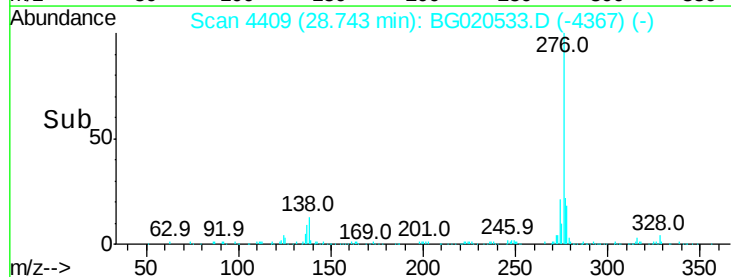
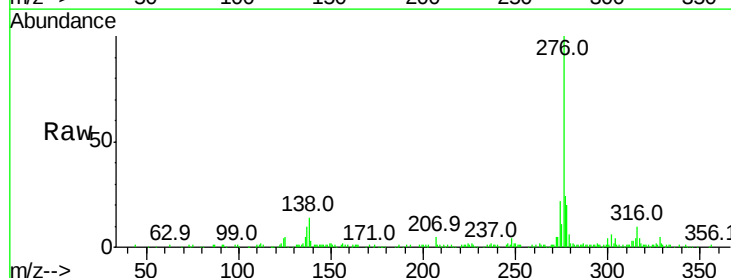
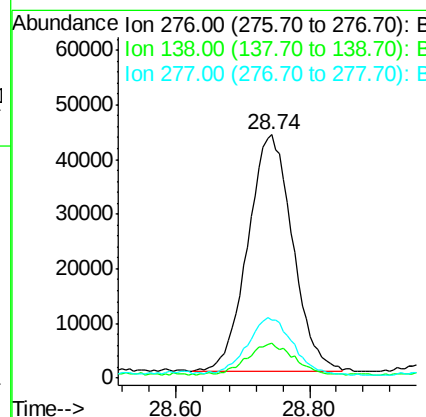
RT: 28.74 min Scan# 4409

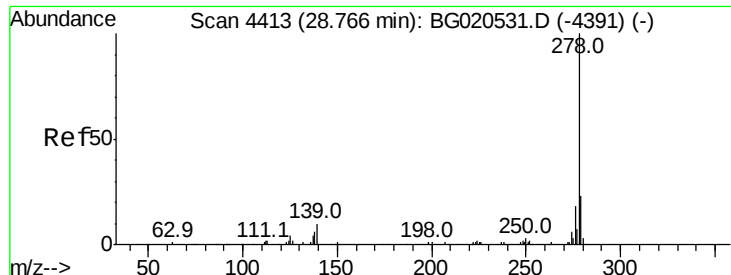
Delta R.T. 0.05 min

Lab File: BG020533.D

Acq: 26 Dec 2015 10:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.2	11.4	17.0
277	24.0	17.4	26.0





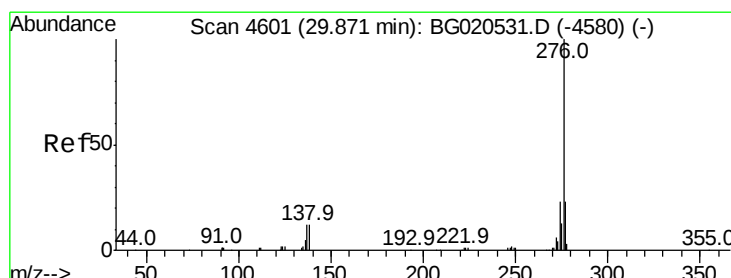
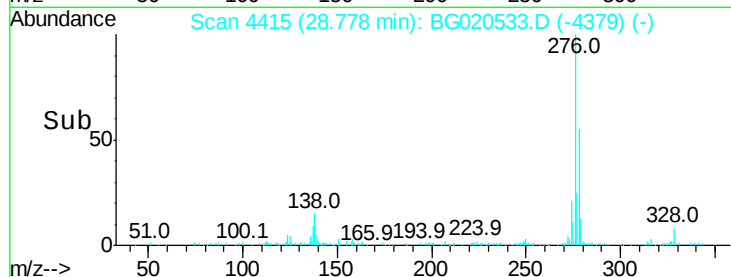
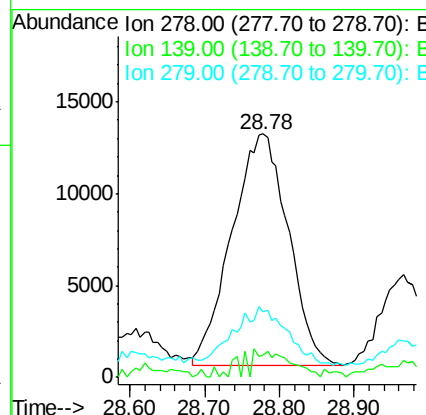
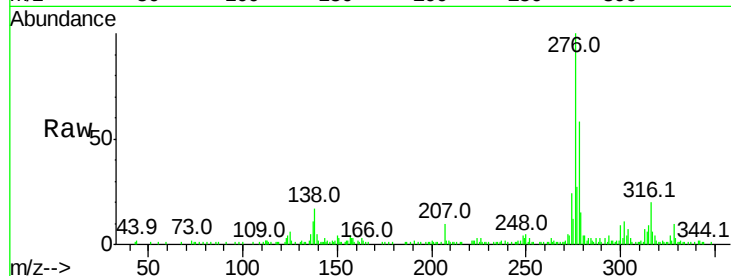
#93
Dibenzo(a,h)anthracene
Concen: 6.32 ng/ul
RT: 28.78 min Scan# 4415
Delta R.T. 0.01 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Instrument :
BNA_G
ClientSampleId :
G9D87

Tot Ion	Ratio	Lower	Upper
278	100		
139	12.0	9.4	14.2
279	26.8	19.4	29.0

Manual Integrations
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#94
Benzo(g,h,i)perylene
Concen: 23.14 ng/ul
RT: 29.92 min Scan# 4610
Delta R.T. 0.05 min
Lab File: BG020533.D
Acq: 26 Dec 2015 10:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	12.9	10.8	16.2
277	23.7	19.9	29.9

