

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
 Data File : BG018232.D
 Acq On : 2 Aug 2015 18:45
 Operator : TP
 Sample : G3065-09RE
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02A2RE

Manual Integrations
 APPROVED

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 8/4/2015 12:20:05 PM

Quant Time: Aug 03 09:40:30 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 03 05:58:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	67473	20.00	ng/ul	0.00
18) Naphthalene-d8	10.27	136	263806	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.17	164	120941	20.00	ng/ul	0.02
62) Phenanthrene-d10	16.93	188	219992	20.00	ng/ul	0.02
78) Chrysene-d12	21.15	240	366084	20.00	ng/ul	0.04
86) Perylene-d12	23.37	264	335115	20.00	ng/ul	0.08

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.96	96	1001	1.12	ng/uL	0.00
5) Phenol-d5	6.69	99	49991	8.24	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.82	67	30773	9.92	ng/ul	0.00
9) 2-Chlorophenol-d4	7.02	132	44290	9.67	ng/ul	0.01
13) 4-Methylphenol-d8	8.22	113	39449	7.98	ng/ul	0.01
19) Nitrobenzene-d5	8.64	128	23530	11.32	ng/ul	0.01
22) 2-Nitrophenol-d4	9.36	143	21156	8.87	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.91	165	44318	10.51	ng/ul	0.03
29) 4-Chloroaniline-d4	10.38	131	46873	8.92	ng/ul	-0.02
44) Dimethylphthalate-d6	13.58	166	106929	11.44	ng/ul	0.01
47) Acenaphthylene-d8	13.86	160	119472	11.02	ng/ul	0.02
52) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
58) Fluorene-d10	15.17	176	81291	9.61	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
71) Anthracene-d10	17.03	188	113069	11.82	ng/ul	0.03
79) Pyrene-d10	19.35	212	142784	8.06	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.22	264	194643m	11.49	ng/ul	0.07

Target Compounds

						Qvalue
11) 2-Methylphenol	7.95	108	13159	2.71	ng/ul	100
14) Acetophenone	8.28	105	66945	8.71	ng/ul	91
16) 4-Methylphenol	8.29	108	85941	15.97	ng/ul	84
24) 2,4-Dimethylphenol	9.48	107	174816	33.36	ng/ul#	84
28) Naphthalene	10.32	128	234261	18.44	ng/ul	98
34) 2-Methylnaphthalene	11.95	142	162247	16.14	ng/ul	95
35) 1-Methylnaphthalene	12.18	142	104472	10.83	ng/ul#	99
41) 1,1'-Biphenyl	12.99	154	34654	4.01	ng/ul	98
45) Dimethylphthalate	13.63	163	205895	22.14	ng/ul	98
50) Acenaphthene	14.23	153	96745	13.80	ng/ul	99
54) Dibenzofuran	14.57	168	85860	8.13	ng/ul#	72
57) Diethylphthalate	15.00	149	20480	2.13	ng/ul#	94
59) Fluorene	15.23	166	117599	12.91	ng/ul	97
70) Phenanthrene	16.98	178	844425	75.56	ng/ul	97
72) Anthracene	17.06	178	206521	18.58	ng/ul	95
75) Carbazole	17.34	167	80066	8.67	ng/ul#	81
76) Di-n-butylphthalate	17.91	149	60476	4.92	ng/ul#	88
77) Fluoranthene	19.01	202	1223732	99.70	ng/ul#	92
80) Pyrene	19.38	202	1236210	55.67	ng/ul#	93
81) Butylbenzylphthalate	20.29	149	112933	12.52	ng/ul#	78
83) Benzo(a)anthracene	21.14	228	679910	34.49	ng/ul	94
84) Bis(2-ethylhexyl)phthalate	21.08	149	2426252	199.38	ng/ul#	50
85) Chrysene	21.19	228	730488	40.45	ng/ul#	91

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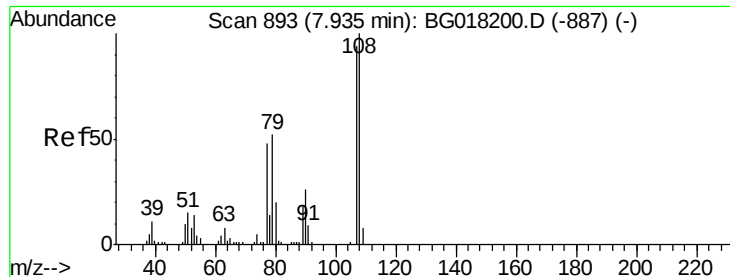
Manual Integrations
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8/4/2015 12:20:05 PM

Quant Time: Aug 03 09:40:30 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 03 05:58:42 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	22.70	252	961134m	47.74	ng/ul	
89) Benzo(k)fluoranthene	22.73	252	501943m	27.13	ng/ul	
91) Benzo(a)pyrene	23.27	252	658120	36.54	ng/ul#	84
92) Indeno(1,2,3-cd)pyrene	25.60	276	246720	11.84	ng/ul#	91
93) Dibenzo(a,h)anthracene	25.61	278	60577	3.40	ng/ul#	60
94) Benzo(g,h,i)perylene	26.29	276	216580	12.73	ng/ul#	88

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



#11

2-Methylphenol

Concen: 2.71 ng/ul

RT: 7.95 min Scan# 896

Delta R.T. 0.02 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

C02A2RE

Tgt Ion:108 Resp: 13159

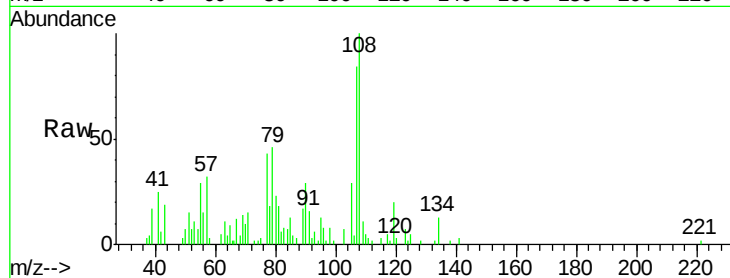
Ion Ratio Lower Upper

108 100

107 84.4 67.8 101.6

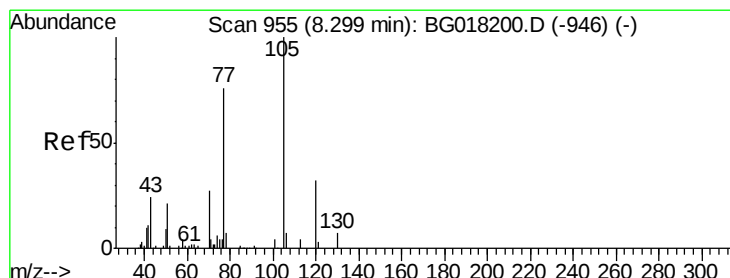
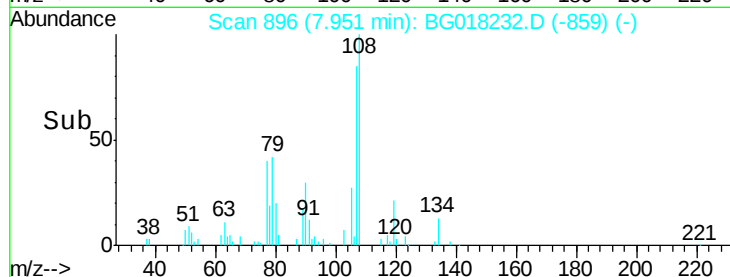
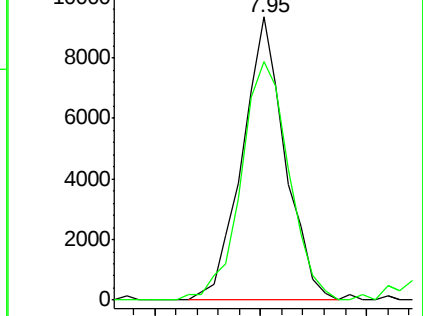
Manual Integrations
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Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#14

Acetophenone

Concen: 8.71 ng/ul

RT: 8.28 min Scan# 952

Delta R.T. -0.01 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

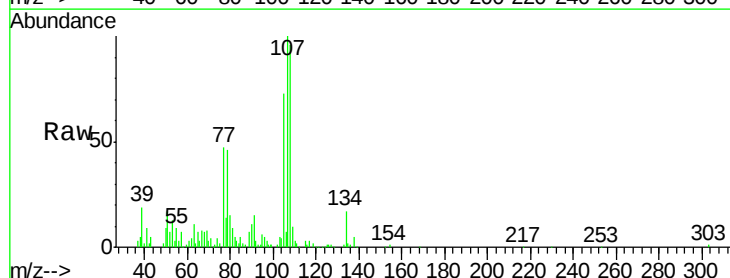
Tgt Ion:105 Resp: 66945

Ion Ratio Lower Upper

105 100

77 64.7 58.4 87.6

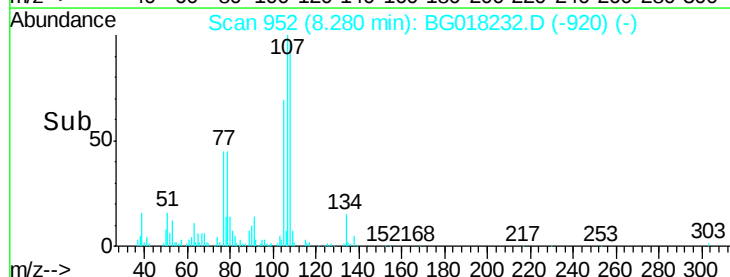
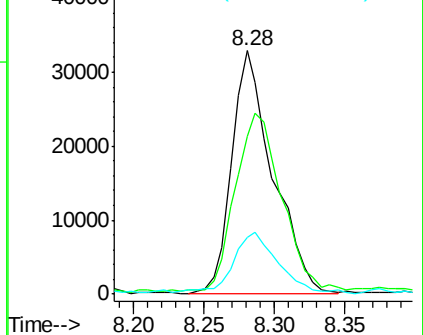
51 23.6 16.5 24.7

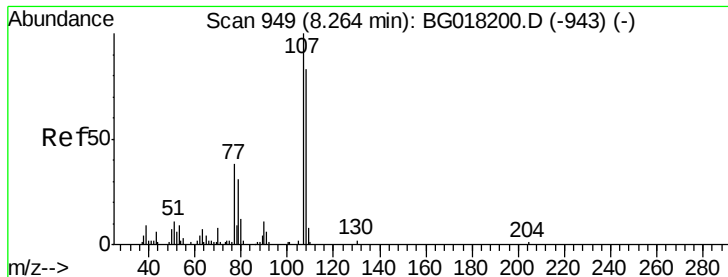


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC





#16

4-Methylphenol

Concen: 15.97 ng/ul

RT: 8.29 min Scan# 953

Delta R.T. 0.03 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

C02A2RE

Tgt Ion:108 Resp: 85941

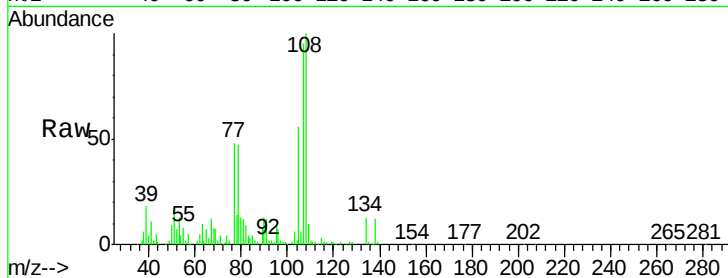
Ion Ratio Lower Upper

108 100

107 95.4 90.4 135.6

Manual Integrations
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Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

60000

50000

40000

30000

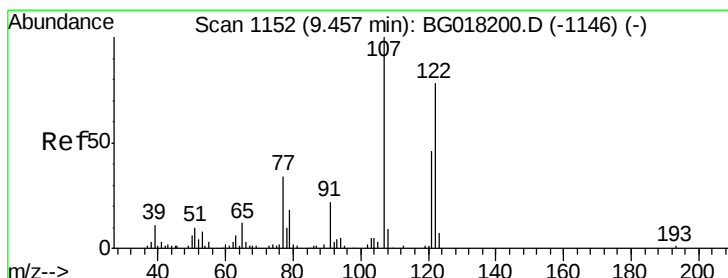
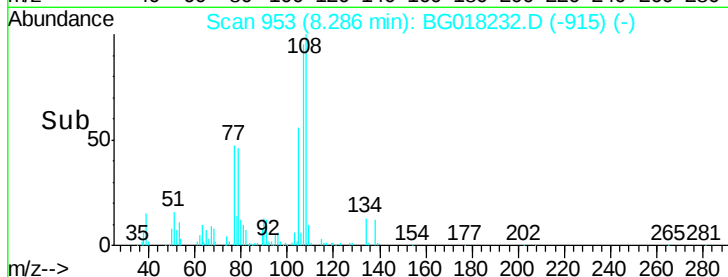
20000

10000

0

8.20 8.25 8.30 8.35 8.40

Time-->



#24

2,4-Dimethylphenol

Concen: 33.36 ng/ul

RT: 9.48 min Scan# 1156

Delta R.T. 0.03 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

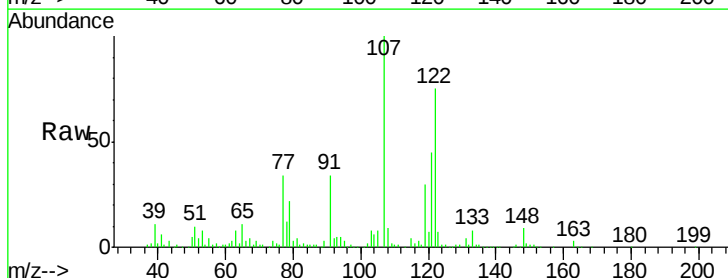
Tgt Ion:107 Resp: 174816

Ion Ratio Lower Upper

107 100

121 45.2 41.4 62.2

122 74.5 75.3 112.9#



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E

200000

150000

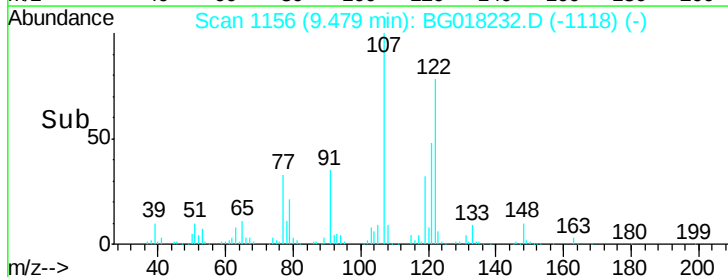
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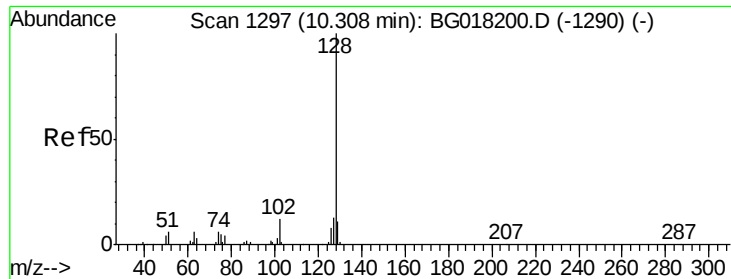
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0

9.42 9.44 9.46 9.48 9.50

Time-->





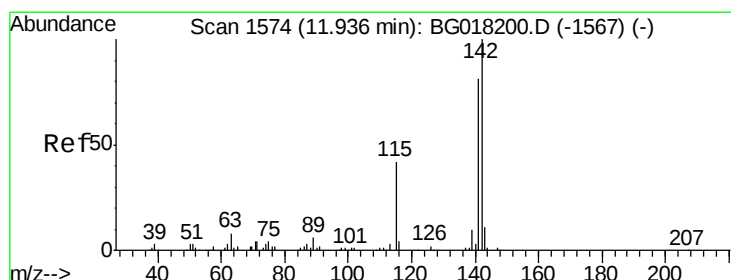
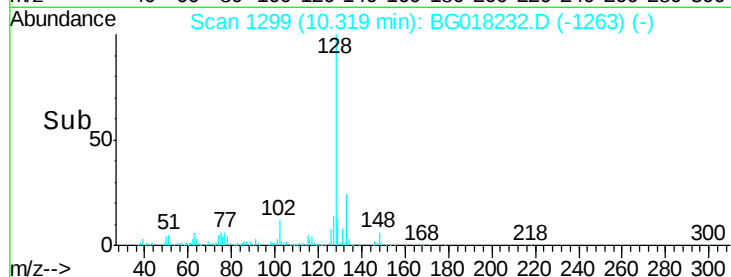
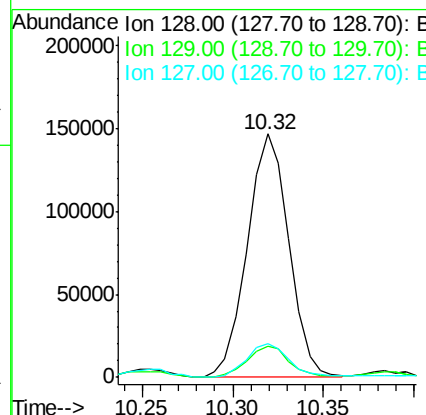
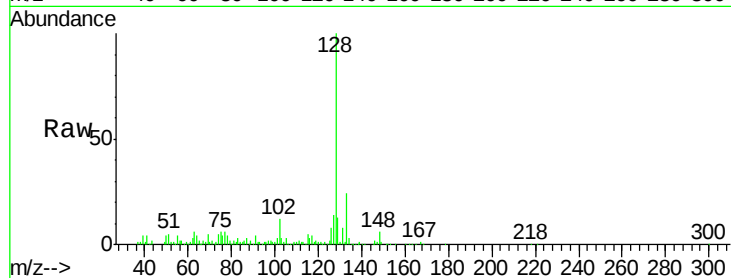
#28
Naphthalene
Concen: 18.44 ng/ul
RT: 10.32 min Scan# 1299
Delta R.T. 0.01 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Instrument :
BNA_G
ClientSampleId :
C02A2RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	12.8	9.1	13.7
127	13.9	11.2	16.8

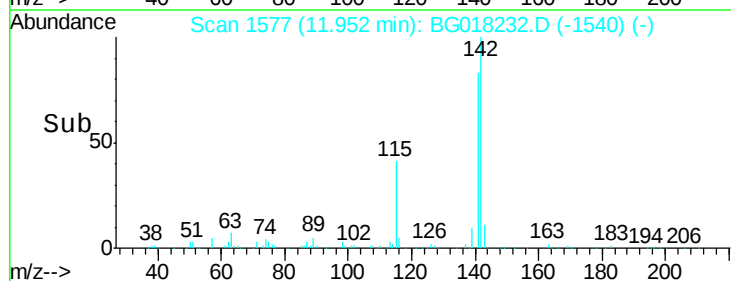
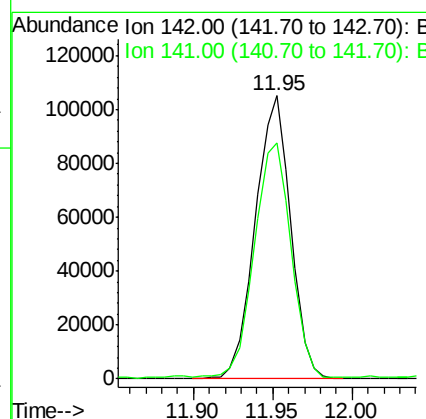
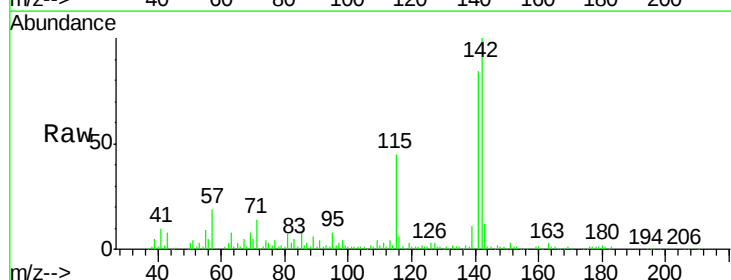
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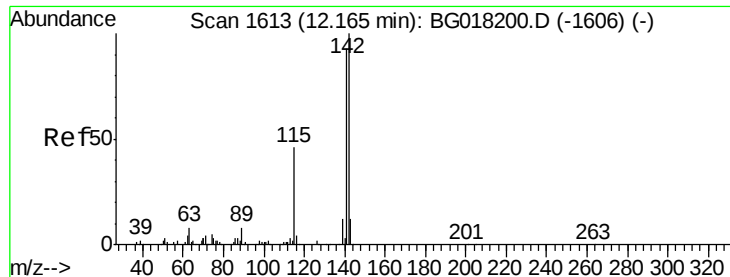
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#34
2-Methylnaphthalene
Concen: 16.14 ng/ul
RT: 11.95 min Scan# 1577
Delta R.T. 0.02 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	83.5	70.3	105.5





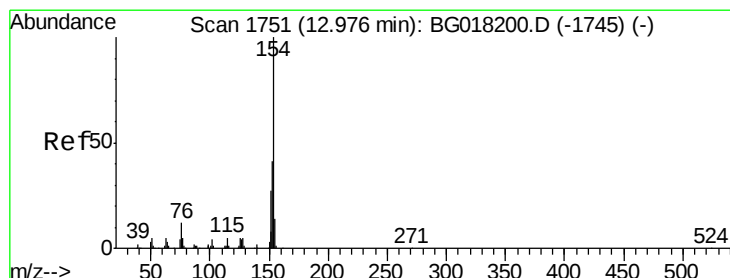
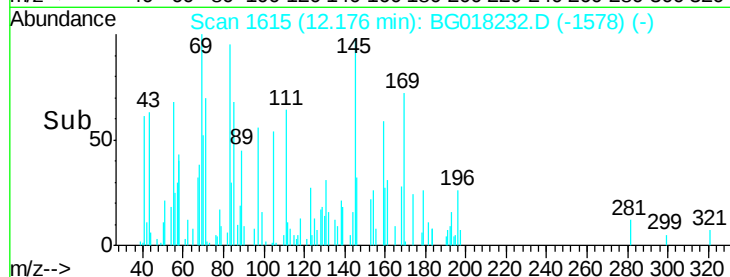
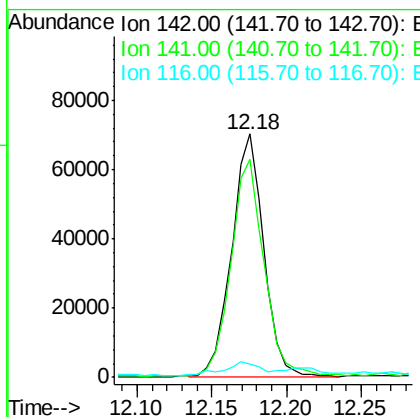
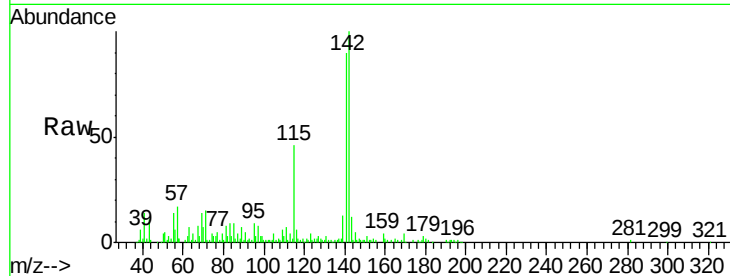
#35
 1-Methylnaphthalene
 Concen: 10.83 ng/ul
 RT: 12.18 min Scan# 1615
 Delta R.T. 0.02 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Instrument :
 BNA_G
 ClientSampleId :
 C02A2RE

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	104472		
141	89.6	72.5	108.7	
116	5.6	2.6	4.0#	

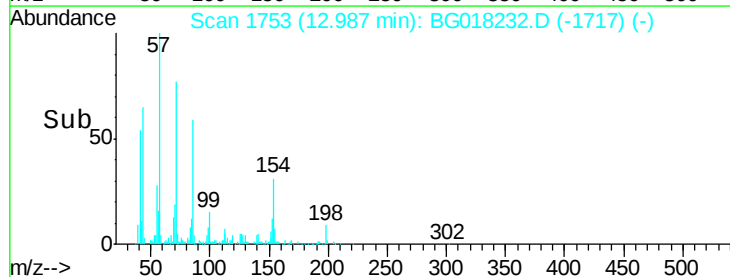
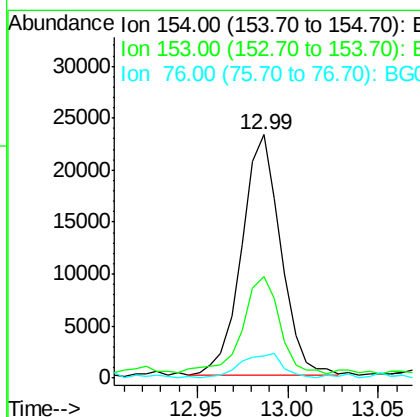
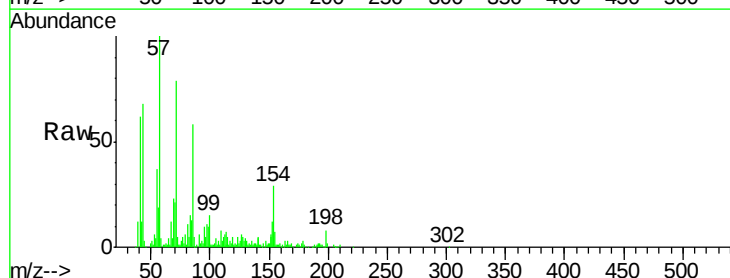
Manual Integrations
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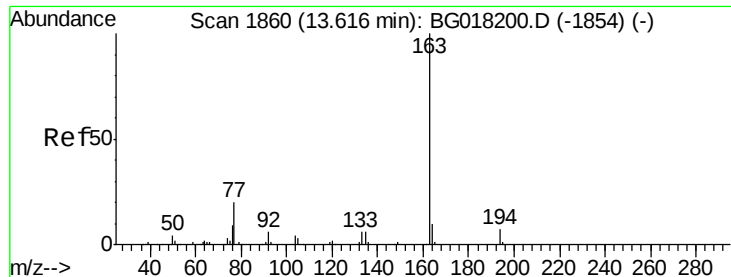
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#41
 1,1'-Biphenyl
 Concen: 4.01 ng/ul
 RT: 12.99 min Scan# 1753
 Delta R.T. 0.01 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	34654		
153	41.7	32.3	48.5	
76	9.0	7.4	11.0	





#45

Dimethylphthalate

Concen: 22.14 ng/ul

RT: 13.63 min Scan# 1862

Delta R.T. 0.01 min

Lab File: BG018232.D

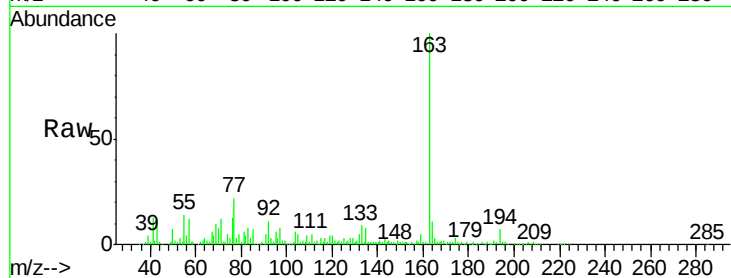
Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

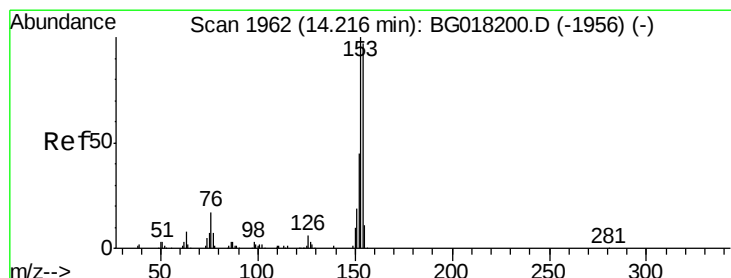
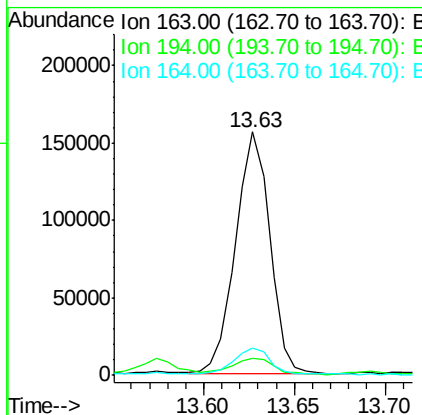
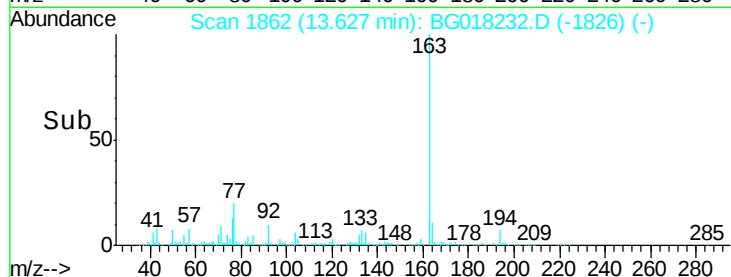
C02A2RE



Tgt Ion:	163	Resp:	205895
Ion Ratio	Lower	Upper	
163	100		
194	7.2	5.2	7.8
164	11.1	8.4	12.6

Manual Integrations
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#50

Acenaphthene

Concen: 13.80 ng/ul

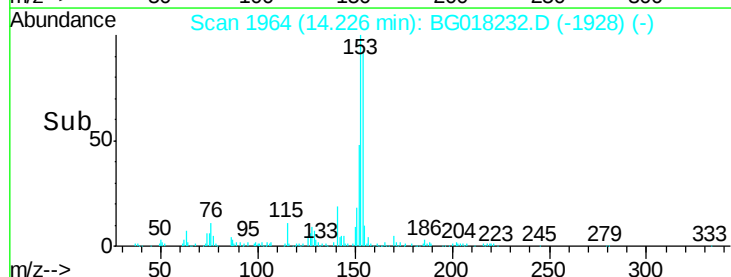
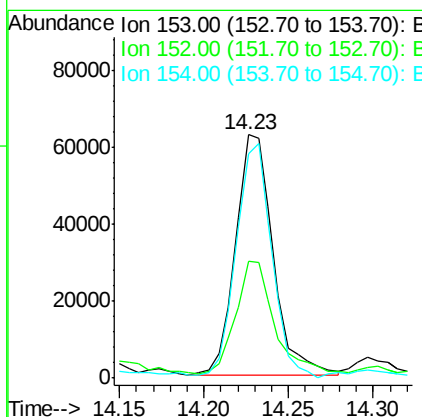
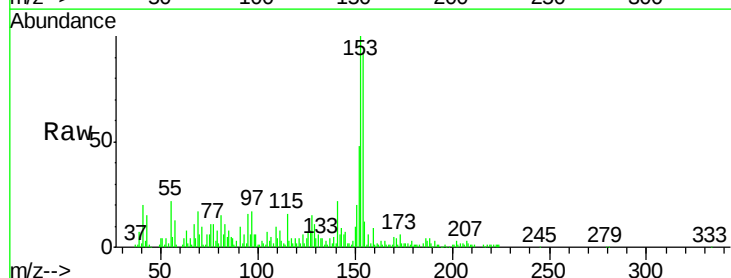
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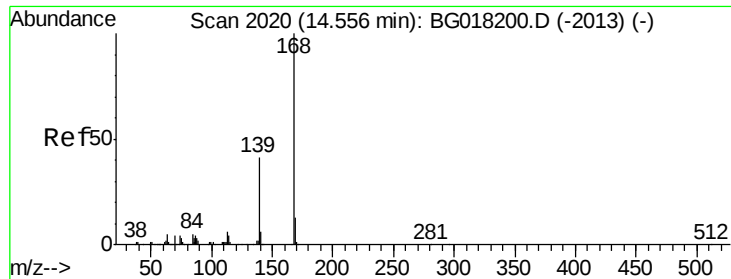
Delta R.T. 0.01 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Tgt Ion:	153	Resp:	96745
Ion Ratio	Lower	Upper	
153	100		
152	48.2	38.7	58.1
154	92.0	74.8	112.2





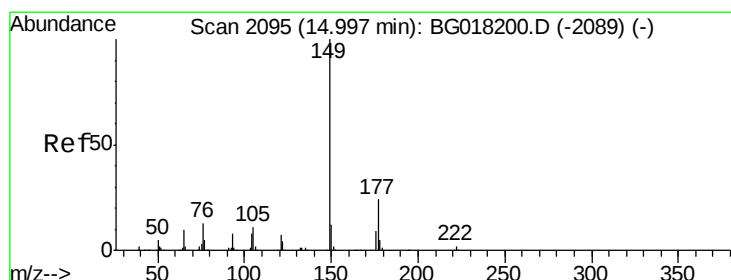
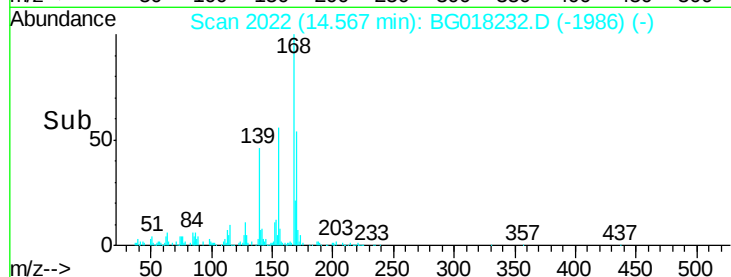
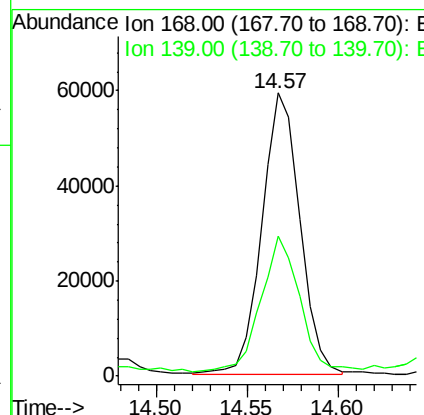
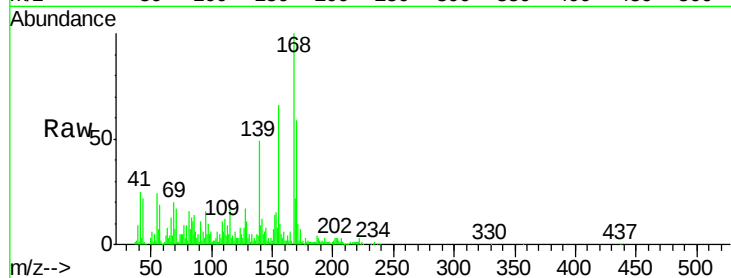
#54
Dibenzenofuran
Concen: 8.13 ng/ul
RT: 14.57 min Scan# 2022
Delta R.T. 0.01 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Instrument :
BNA_G
ClientSampleId :
C02A2RE

Tgt Ion	Ratio	Lower	Upper
168	100		
139	49.3	26.8	40.2#

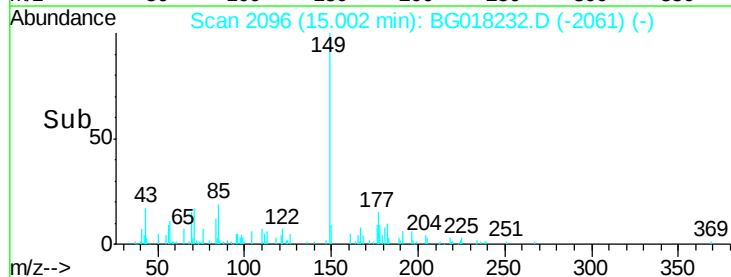
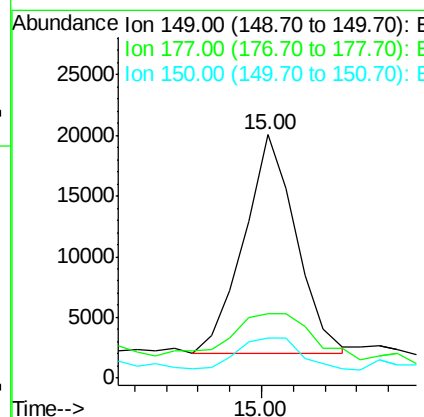
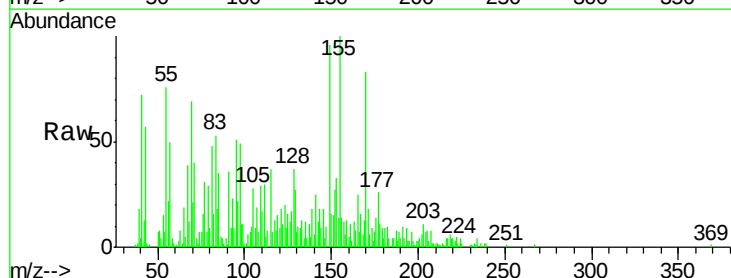
Manual Integrations
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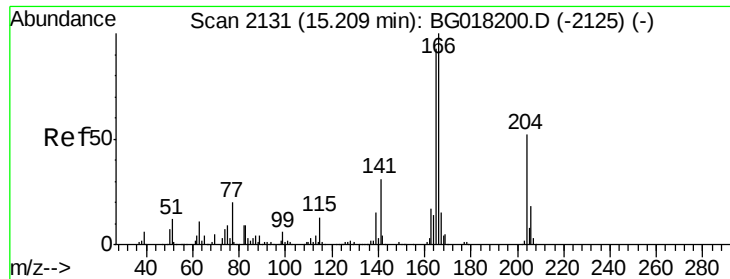
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#57
Diethylphthalate
Concen: 2.13 ng/ul
RT: 15.00 min Scan# 2096
Delta R.T. 0.01 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Lower	Upper
149	100		
177	26.6	20.1	30.1
150	16.7	10.0	15.0#





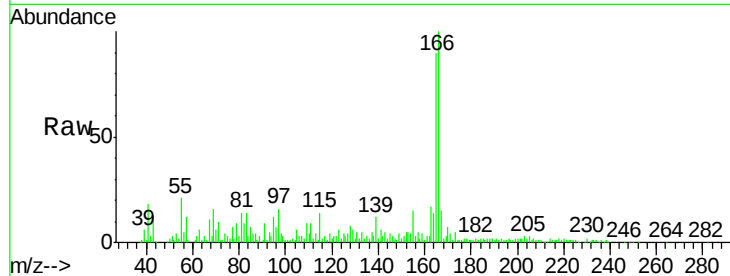
#59
Fluorene
 Concen: 12.91 ng/ul
 RT: 15.23 min Scan# 2134
 Delta R.T. 0.02 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Instrument :
 BNA_G
 ClientSampleId :
 C02A2RE

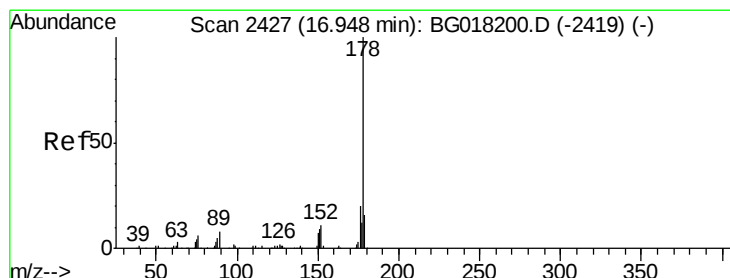
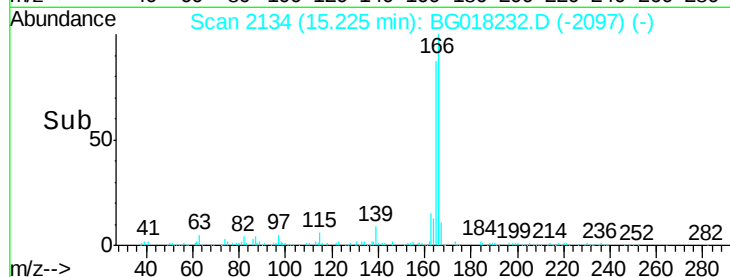
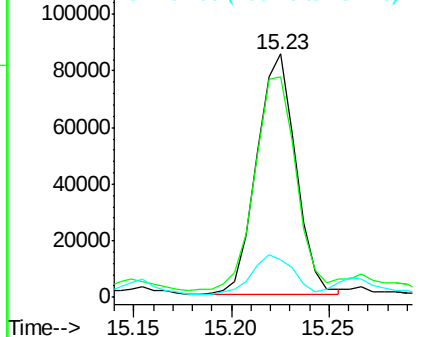
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	117599		
165	90.5	75.1	112.7	
167	15.3	11.8	17.6	

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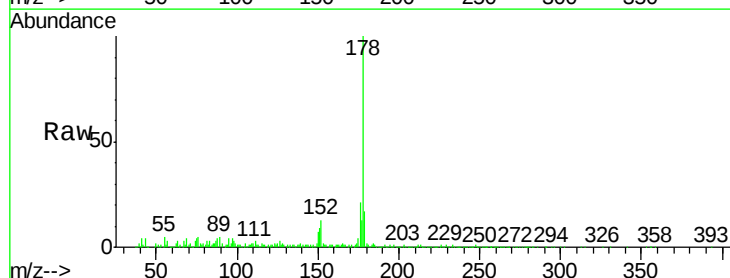


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

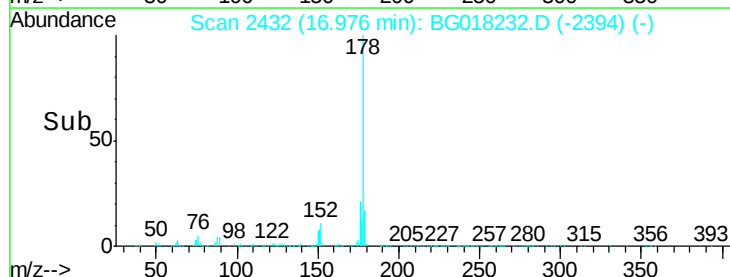
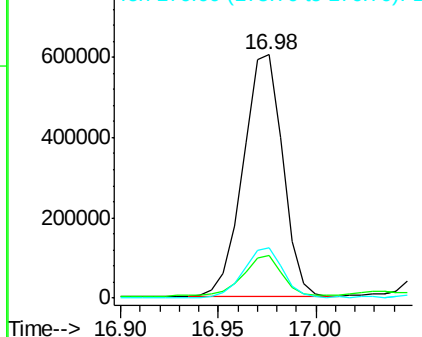


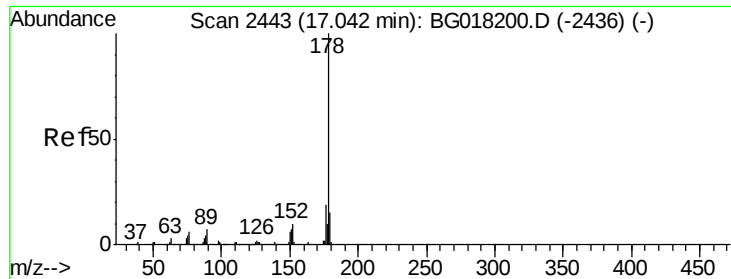
#70
Phenanthrene
 Concen: 75.56 ng/ul
 RT: 16.98 min Scan# 2432
 Delta R.T. 0.03 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	844425		
179	17.4	12.8	19.2	
176	20.8	16.0	24.0	



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: 18.58 ng/ul

RT: 17.06 min Scan# 2447

Delta R.T. 0.03 min

Lab File: BG018232.D

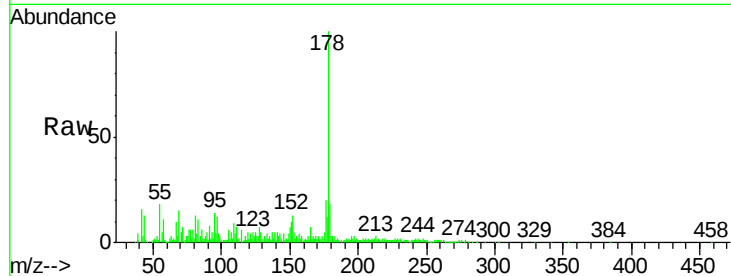
Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

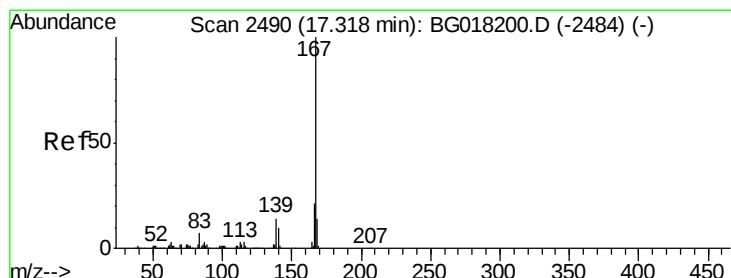
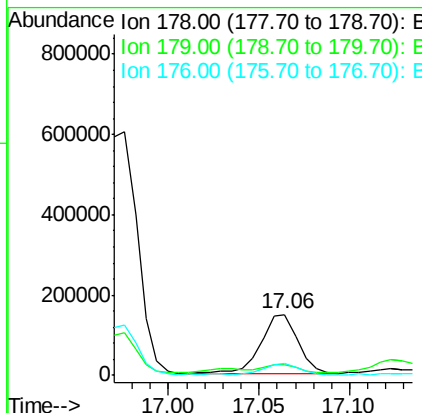
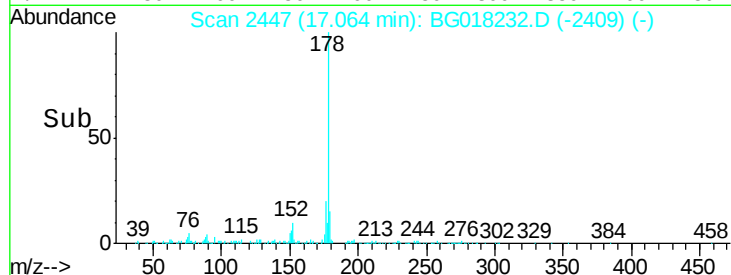
C02A2RE



Tgt Ion	Ratio	Lower	Upper
178	100		
179	18.2	12.2	18.2
176	20.1	14.8	22.2

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#75

Carbazole

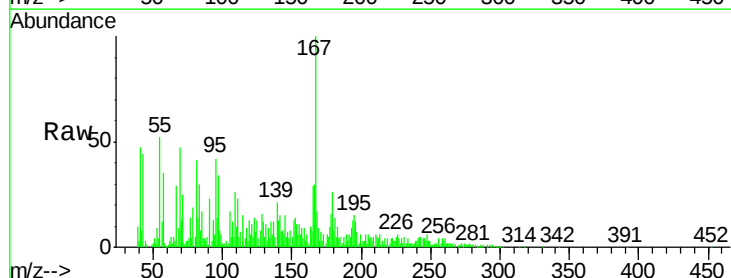
Concen: 8.67 ng/ul

RT: 17.34 min Scan# 2494

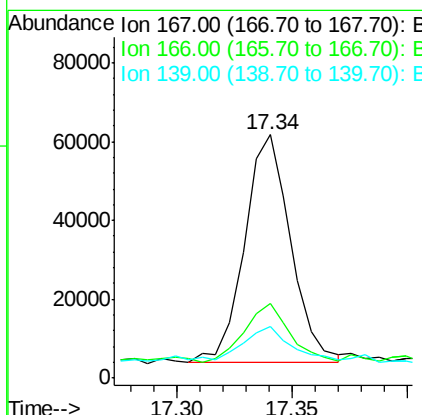
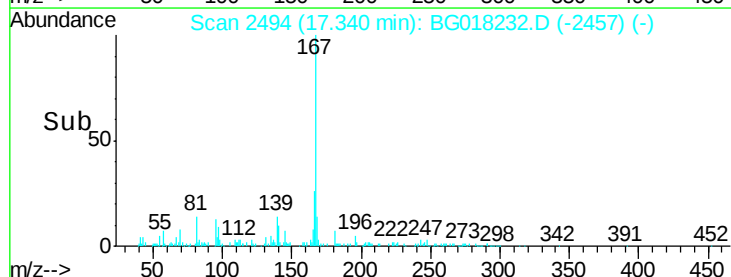
Delta R.T. 0.02 min

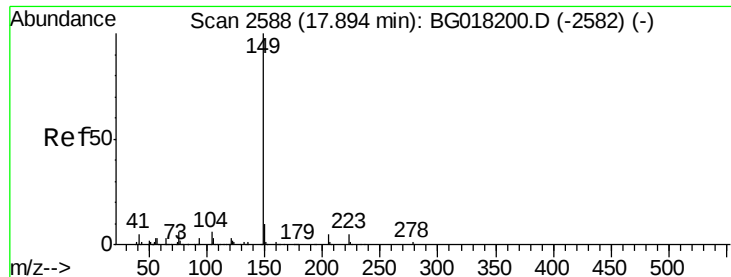
Lab File: BG018232.D

Acq: 2 Aug 2015 18:45



Tgt Ion	Ratio	Lower	Upper
167	100		
166	30.5	17.5	26.3#
139	21.3	10.1	15.1#





#76

Di-n-butylphthalate

Concen: 4.92 ng/ul

RT: 17.91 min Scan# 2591

Delta R.T. 0.02 min

Lab File: BG018232.D

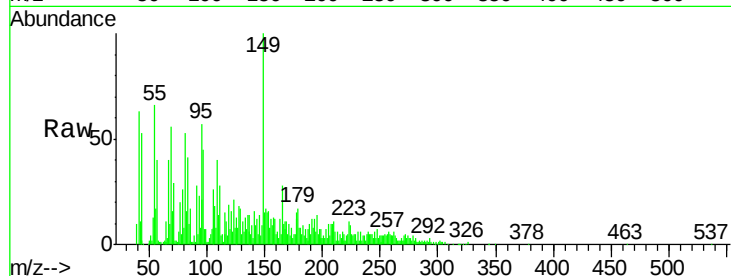
Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

C02A2RE



Tgt Ion:149 Resp: 60476

Ion Ratio Lower Upper

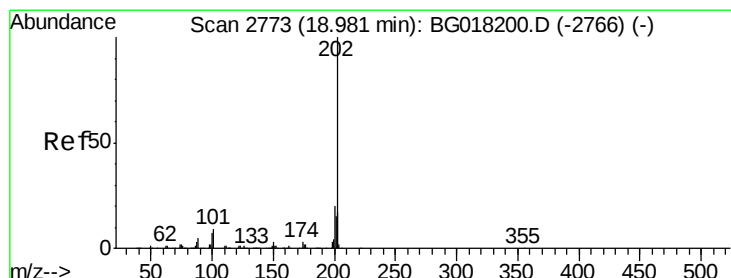
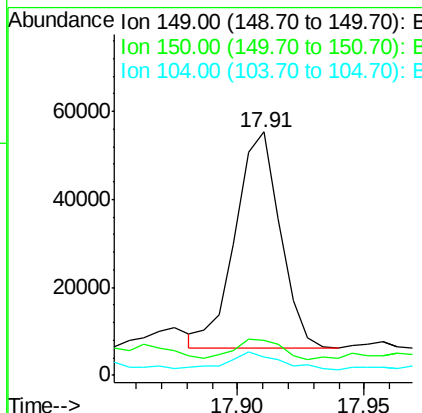
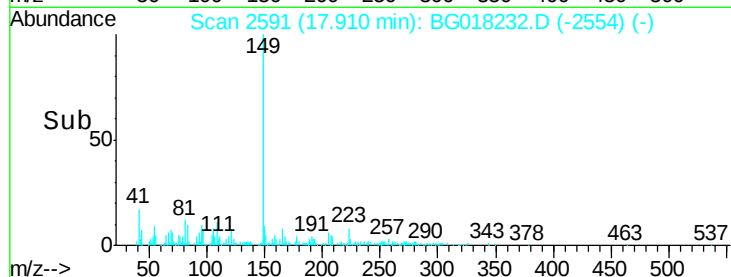
149 100

150 14.6 7.7 11.5#

104 7.3 3.6 5.4#

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#77

Fluoranthene

Concen: 99.70 ng/ul

RT: 19.01 min Scan# 2779

Delta R.T. 0.04 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

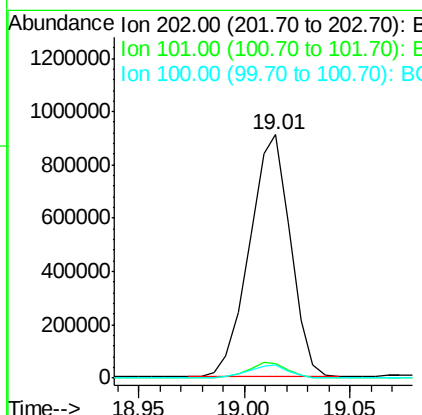
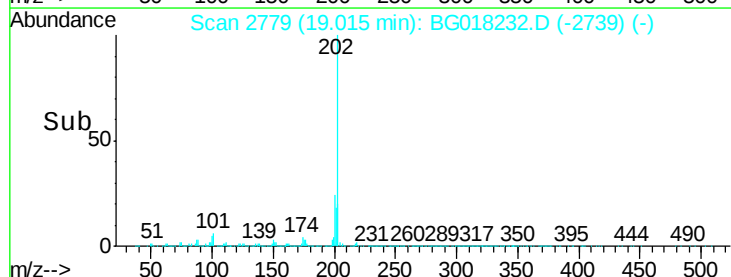
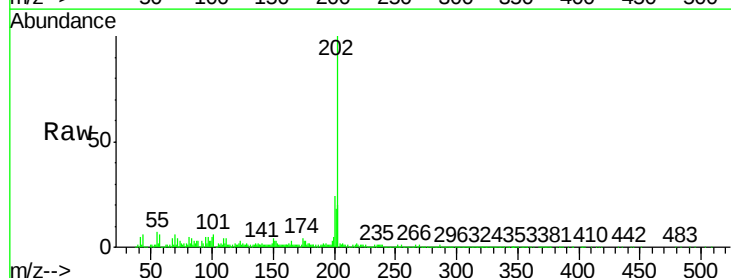
Tgt Ion:202 Resp: 1223732

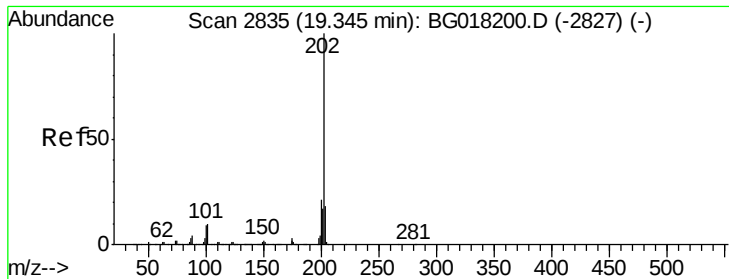
Ion Ratio Lower Upper

202 100

101 5.8 7.5 11.3#

100 5.4 5.5 8.3#





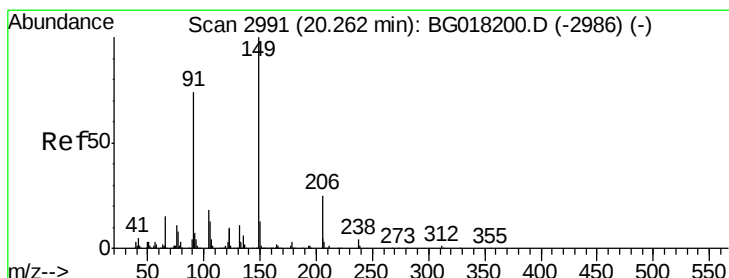
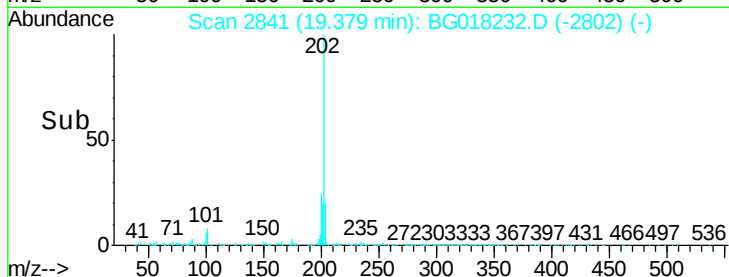
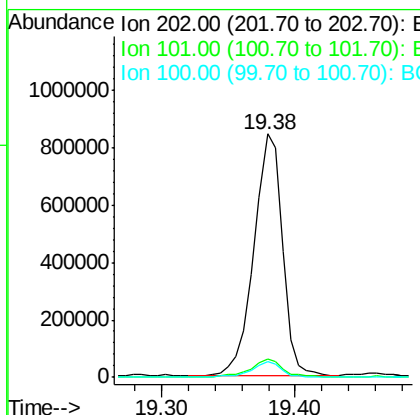
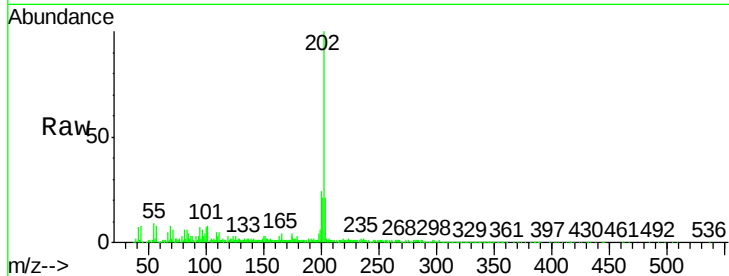
#80
 Pyrene
 Concen: 55.67 ng/ul
 RT: 19.38 min Scan# 2841
 Delta R.T. 0.03 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Instrument :
 BNA_G
 ClientSampleId :
 C02A2RE

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.7	8.1	12.1#
100	6.7	7.4	11.0#

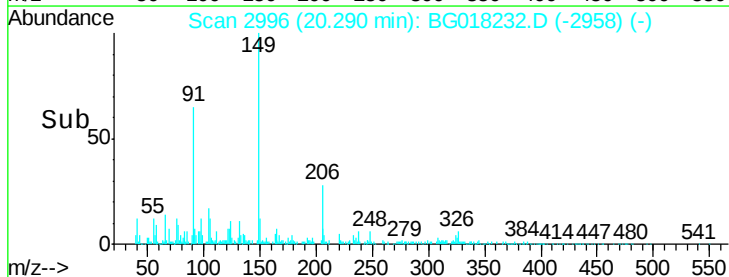
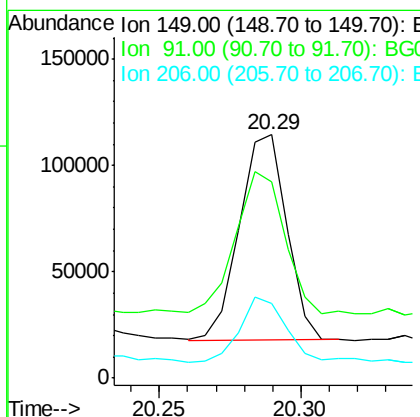
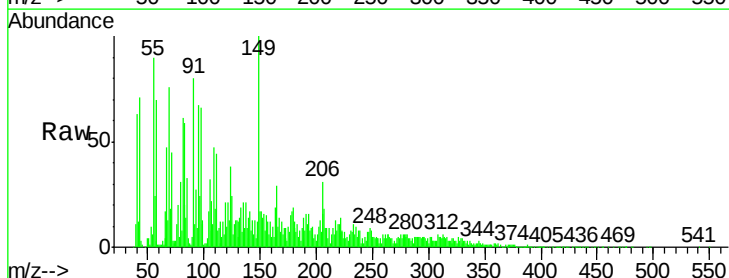
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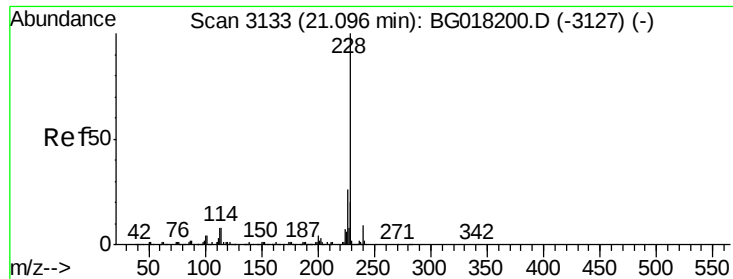
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#81
 Butylbenzylphthalate
 Concen: 12.52 ng/ul
 RT: 20.29 min Scan# 2996
 Delta R.T. 0.03 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Lower	Upper
149	100		
91	80.4	46.6	69.8#
206	30.9	21.8	32.8





#83

Benzo(a)anthracene

Concen: 34.49 ng/ul

RT: 21.14 min Scan# 3140

Delta R.T. 0.04 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

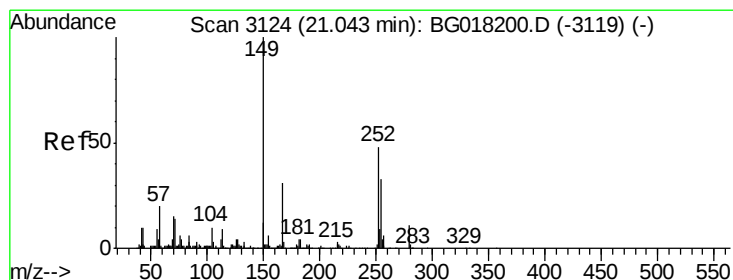
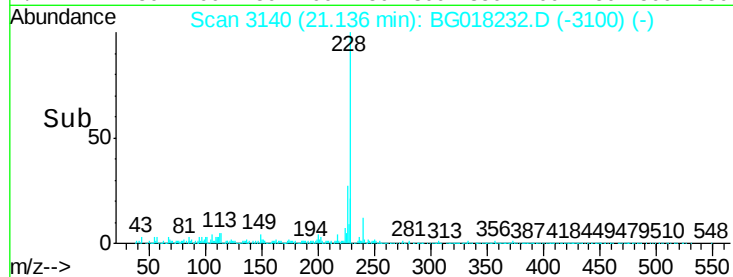
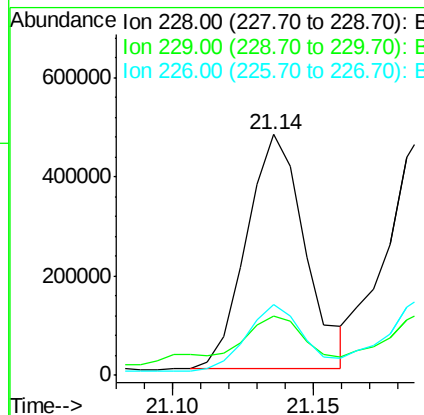
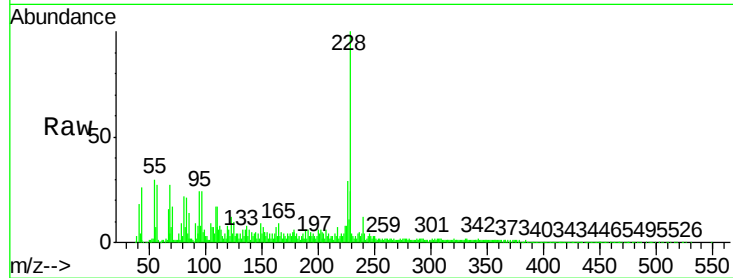
ClientSampleId :

C02A2RE

Tgt Ion:	228	Resp:	679910
Ion Ratio	Lower	Upper	
228	100		
229	24.4	16.5	24.7
226	29.1	21.5	32.3

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#84

Bis(2-ethylhexyl)phthalate

Concen: 199.38 ng/ul

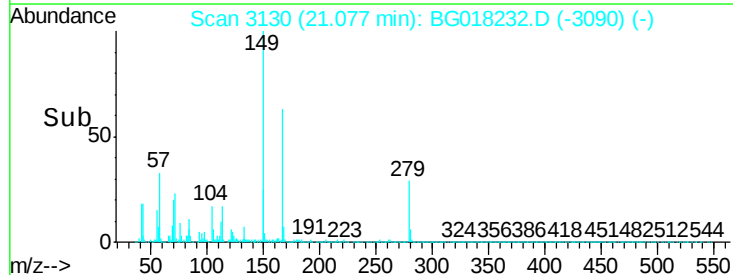
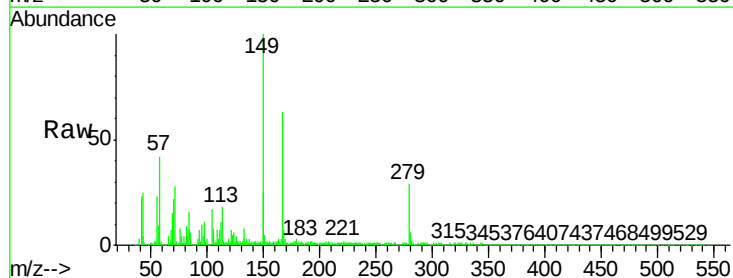
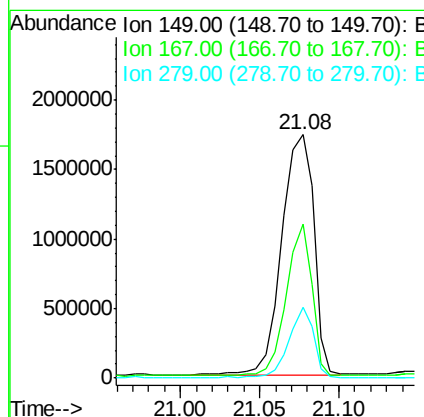
RT: 21.08 min Scan# 3130

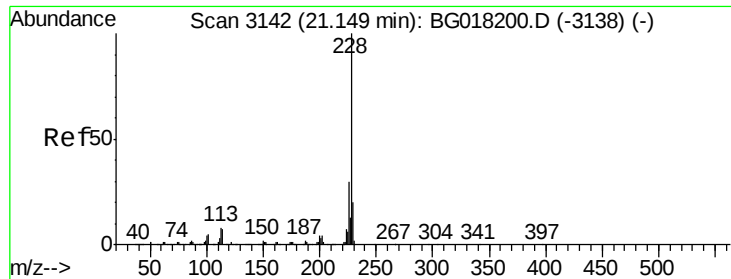
Delta R.T. 0.04 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Tgt Ion:	149	Resp:	2426252
Ion Ratio	Lower	Upper	
149	100		
167	63.3	27.4	41.2#
279	28.9	8.3	12.5#





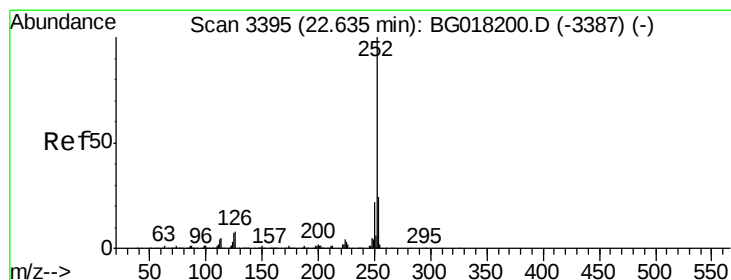
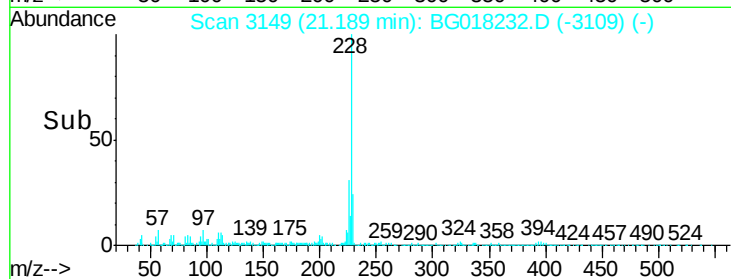
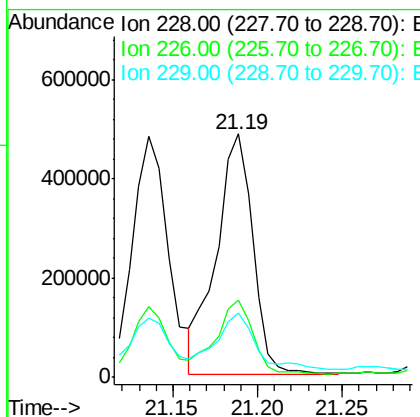
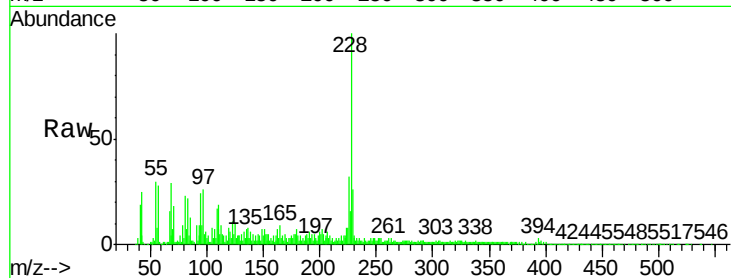
#85
Chrysene
Concen: 40.45 ng/ul
RT: 21.19 min Scan# 3149
Delta R.T. 0.04 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Instrument :
BNA_G
ClientSampleId :
C02A2RE

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	730488		
226	31.7		22.7	34.1
229	26.2		16.2	24.2

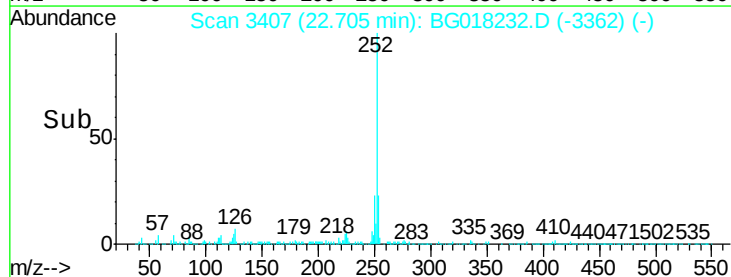
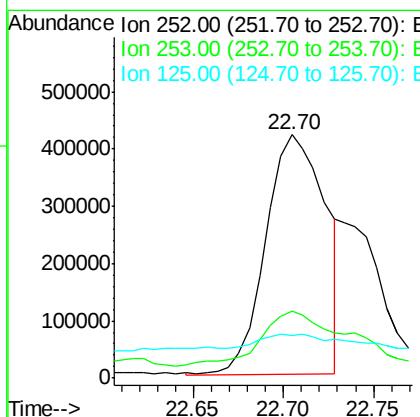
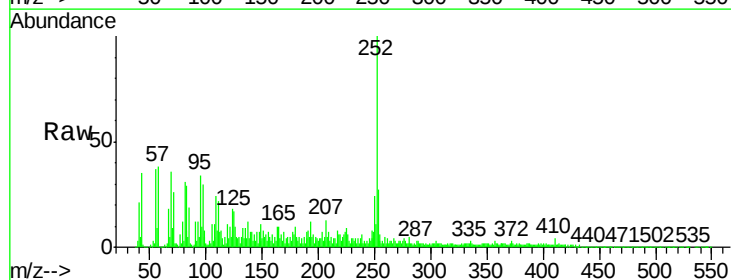
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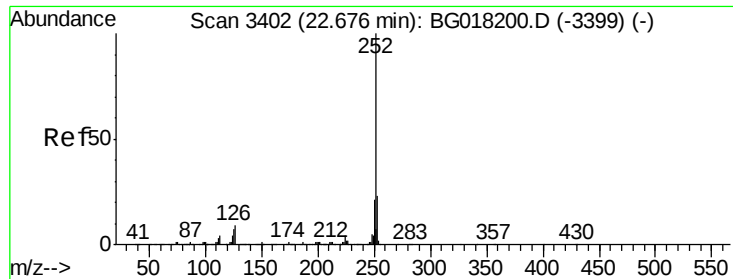
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#88
Benzo(b)fluoranthene
Concen: 47.74 ng/ul m
RT: 22.70 min Scan# 3407
Delta R.T. 0.07 min
Lab File: BG018232.D
Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	961134		
253	27.4		18.5	27.7
125	17.4		7.4	11.0





#89

Benzo(k)fluoranthene

Concen: 27.13 ng/ul m

RT: 22.73 min Scan# 3411

Delta R.T. 0.05 min

Lab File: BG018232.D

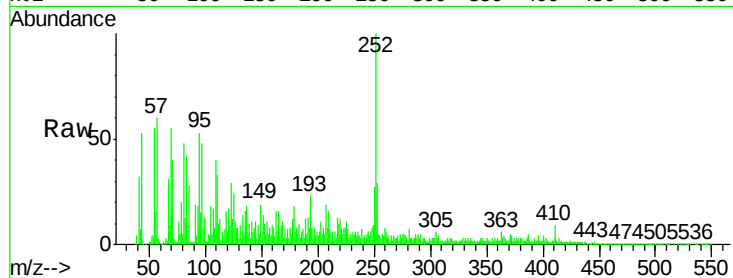
Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

ClientSampleId :

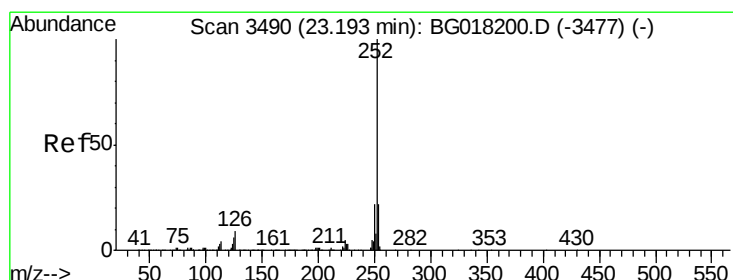
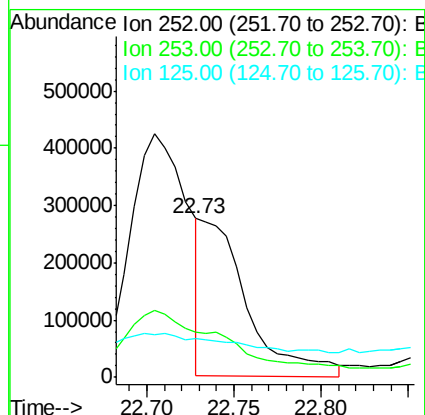
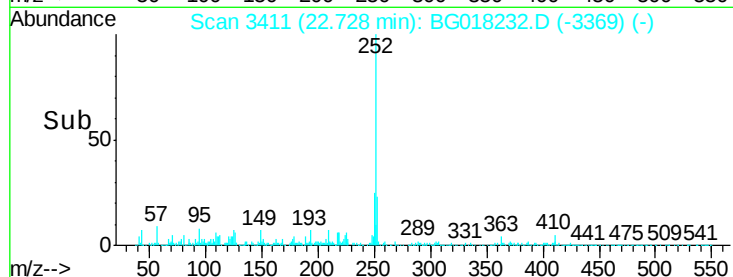
C02A2RE



Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.6	18.2	27.2#
125	24.4	7.5	11.3#

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#91

Benzo(a)pyrene

Concen: 36.54 ng/ul

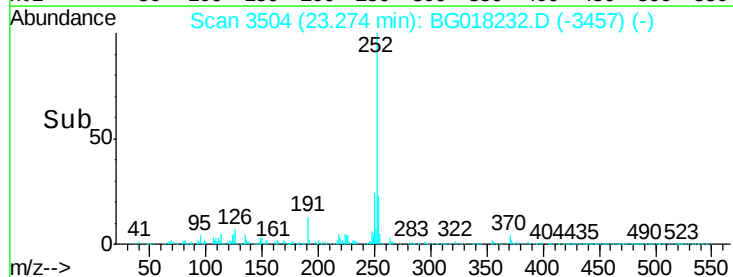
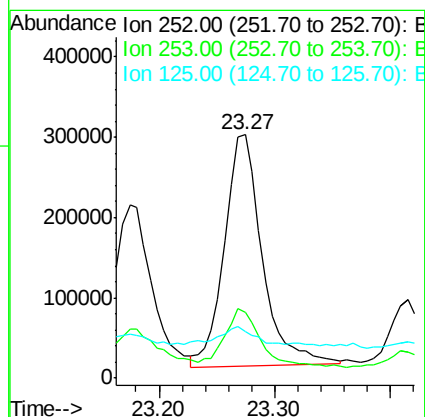
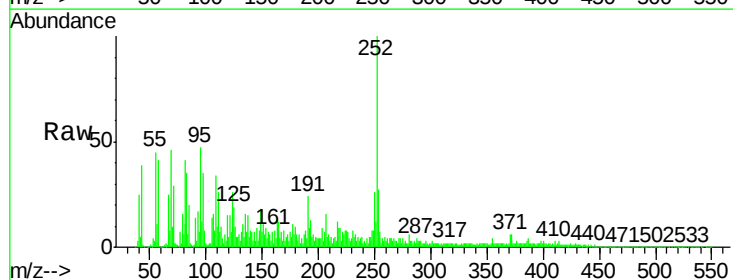
RT: 23.27 min Scan# 3504

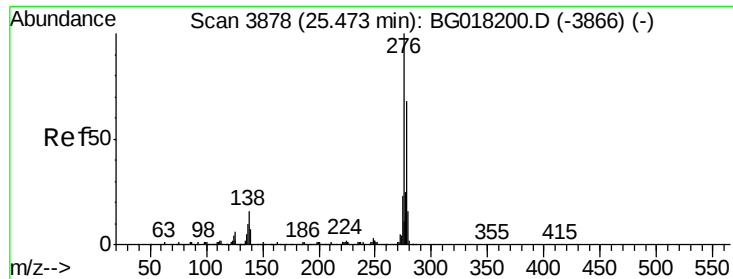
Delta R.T. 0.08 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.2	17.4	26.2#
125	19.3	7.3	10.9#





#92

Indeno(1,2,3-cd)pyrene

Concen: 11.84 ng/ul

RT: 25.60 min Scan# 3899

Delta R.T. 0.11 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Instrument :

BNA_G

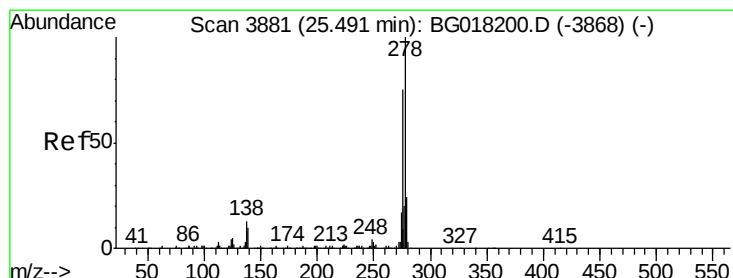
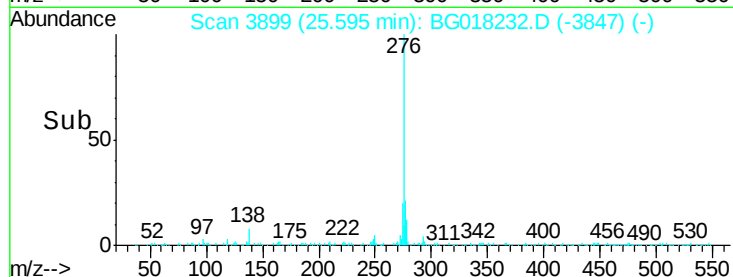
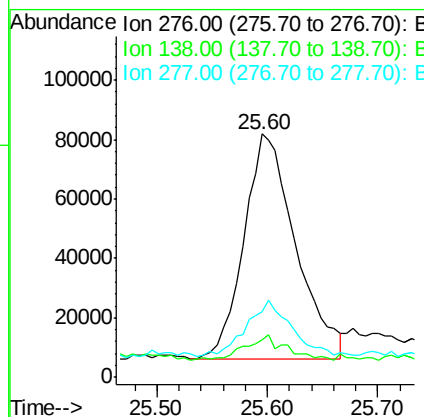
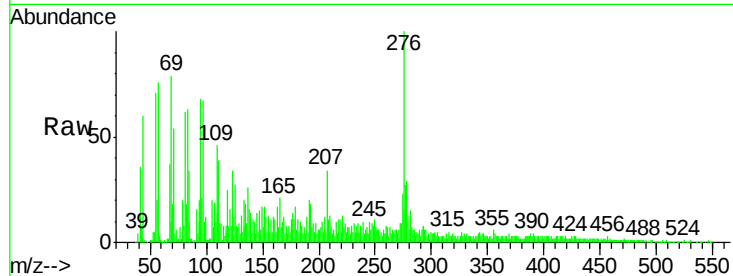
ClientSampleId :

C02A2RE

Tgt Ion:	276	Resp:	246720
Ion Ratio		Lower	Upper
276	100		
138	15.6	17.2	25.8#
277	27.2	19.5	29.3

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#93

Dibenzo(a,h)anthracene

Concen: 3.40 ng/ul

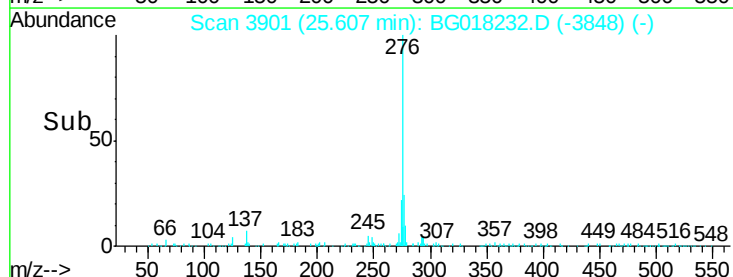
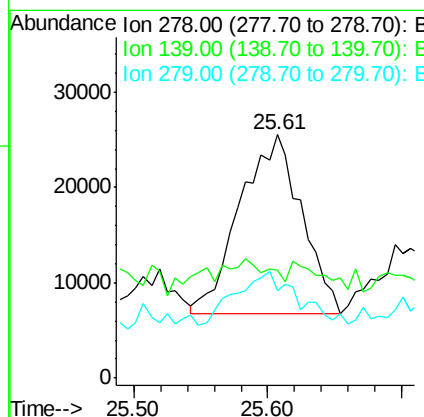
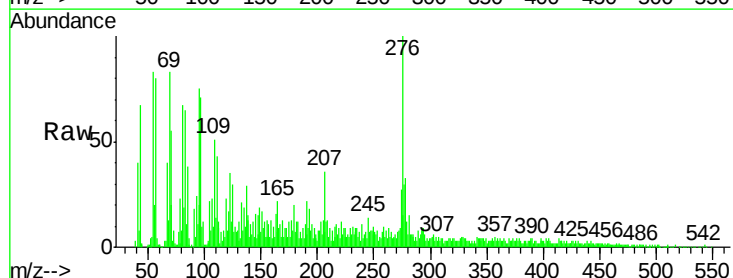
RT: 25.61 min Scan# 3901

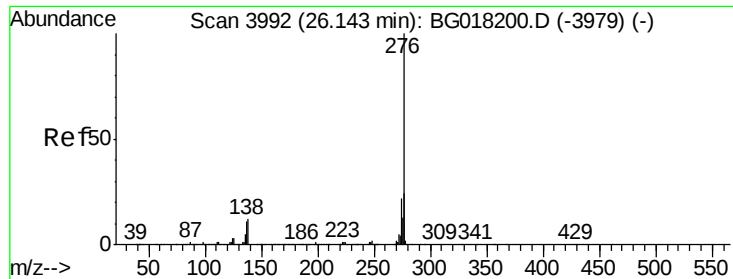
Delta R.T. 0.11 min

Lab File: BG018232.D

Acq: 2 Aug 2015 18:45

Tgt Ion:	278	Resp:	60577
Ion Ratio		Lower	Upper
278	100		
139	44.1	12.2	18.2#
279	35.8	20.0	30.0#





#94
 Benzo(g,h,i)perylene
 Concen: 12.73 ng/ul
 RT: 26.29 min Scan# 4017
 Delta R.T. 0.14 min
 Lab File: BG018232.D
 Acq: 2 Aug 2015 18:45

Instrument :
 BNA_G
 ClientSampleId :
 C02A2RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.6	15.1	22.7#
277	31.8	19.8	29.6#

Manual Integrations
 APPROVED

MMDadoda
 8/4/2015 12:20:05 PM

