

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122015\
 Data File : BG020375.D
 Acq On : 21 Dec 2015 12:14
 Operator : UM/SJ
 Sample : G4848-05
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N51

Manual Integrations
 APPROVED

Sohil
 1/6/2016 5:46:15 AM

Quant Time: Jan 04 11:17:22 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 07:46:34 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	25190	20.00	ng/ul	0.00
18) Naphthalene-d8	11.05	136	77503m	20.00	ng/ul	0.14
36) Acenaphthene-d10	14.87	164	171163m	20.00	ng/ul	0.14
62) Phenanthrene-d10	17.60	188	89627m	20.00	ng/ul	0.13
78) Chrysene-d12	21.90	240	199817m	20.00	ng/ul	0.15
86) Perylene-d12	25.16	264	177059m	20.00	ng/ul	0.14

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	1109	2.43	ng/uL	0.00
5) Phenol-d5	7.26	99	41991	18.90	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	27599	20.82	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	34465	21.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.81	113	36234	19.07	ng/ul	0.00
19) Nitrobenzene-d5	9.29	128	25181	41.68	ng/ul	0.03
22) 2-Nitrophenol-d4	10.04	143	20880m	31.06	ng/ul	0.05
26) 2,4-Dichlorophenol-d3	10.59	165	37785m	27.75	ng/ul	0.06
29) 4-Chloroaniline-d4	11.08	131	35014m	22.89	ng/ul	0.03
44) Dimethylphthalate-d6	14.18	166	37837m	2.73	ng/ul	0.05
47) Acenaphthylene-d8	14.47	160	144514	8.97	ng/ul	0.04
52) 4-Nitrophenol-d4	15.01	143	26854m	10.81	ng/ul	0.07
58) Fluorene-d10	15.83	176	122943m	9.79	ng/ul	0.12
63) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
71) Anthracene-d10	17.86	188	78525m	19.01	ng/ul	0.29
79) Pyrene-d10	19.98	212	156795m	16.84	ng/ul	0.13
90) Benzo(a)pyrene-d12	24.93	264	220725m	24.99	ng/ul	0.14

Target Compounds

						Qvalue
6) Phenol	7.29	94	18672	7.85	ng/ul	89
11) 2-Methylphenol	8.55	108	47489	26.17	ng/ul	96
16) 4-Methylphenol	8.88	108	103413	51.49	ng/ul	99
24) 2,4-Dimethylphenol	10.12	107	220557	134.74	ng/ul	97
28) Naphthalene	11.16	128	25428004m	6282.65	ng/ul	
34) 2-Methylnaphthalene	12.70	142	13673587m	4422.94	ng/ul	
41) 1,1'-Biphenyl	13.64	154	6477896	501.65	ng/ul#	53
48) Acenaphthylene	14.51	152	2505358m	146.40	ng/ul	
50) Acenaphthene	14.91	153	17714524m	1538.51	ng/ul	
54) Dibenzofuran	15.30	168	13992206m	816.91	ng/ul	
59) Fluorene	15.91	166	16069932m	1168.34	ng/ul	
70) Phenanthrene	17.65	178	30204287m	6161.06	ng/ul	
72) Anthracene	17.86	178	3484866m	700.85	ng/ul	
75) Carbazole	18.03	167	5570601m	1333.31	ng/ul	
77) Fluoranthene	19.65	202	21303065m	3718.10	ng/ul	
80) Pyrene	20.11	202	16612569m	1373.66	ng/ul	
83) Benzo(a)anthracene	21.87	228	11078444m	950.19	ng/ul	
85) Chrysene	21.97	228	6952517m	633.16	ng/ul	
88) Benzo(b)fluoranthene	24.17	252	9244986m	867.51	ng/ul	
89) Benzo(k)fluoranthene	24.22	252	1870933m	182.95	ng/ul	
91) Benzo(a)pyrene	25.07	252	5453289m	539.83	ng/ul	
92) Indeno(1,2,3-cd)pyrene	28.94	276	1851654m	153.92	ng/ul	
93) Dibenzo(a,h)anthracene	28.98	278	582646m	58.35	ng/ul	

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Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 07:46:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(g,h,i)perylene	30.12	276	1357127m	137.61	ng/ul	

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

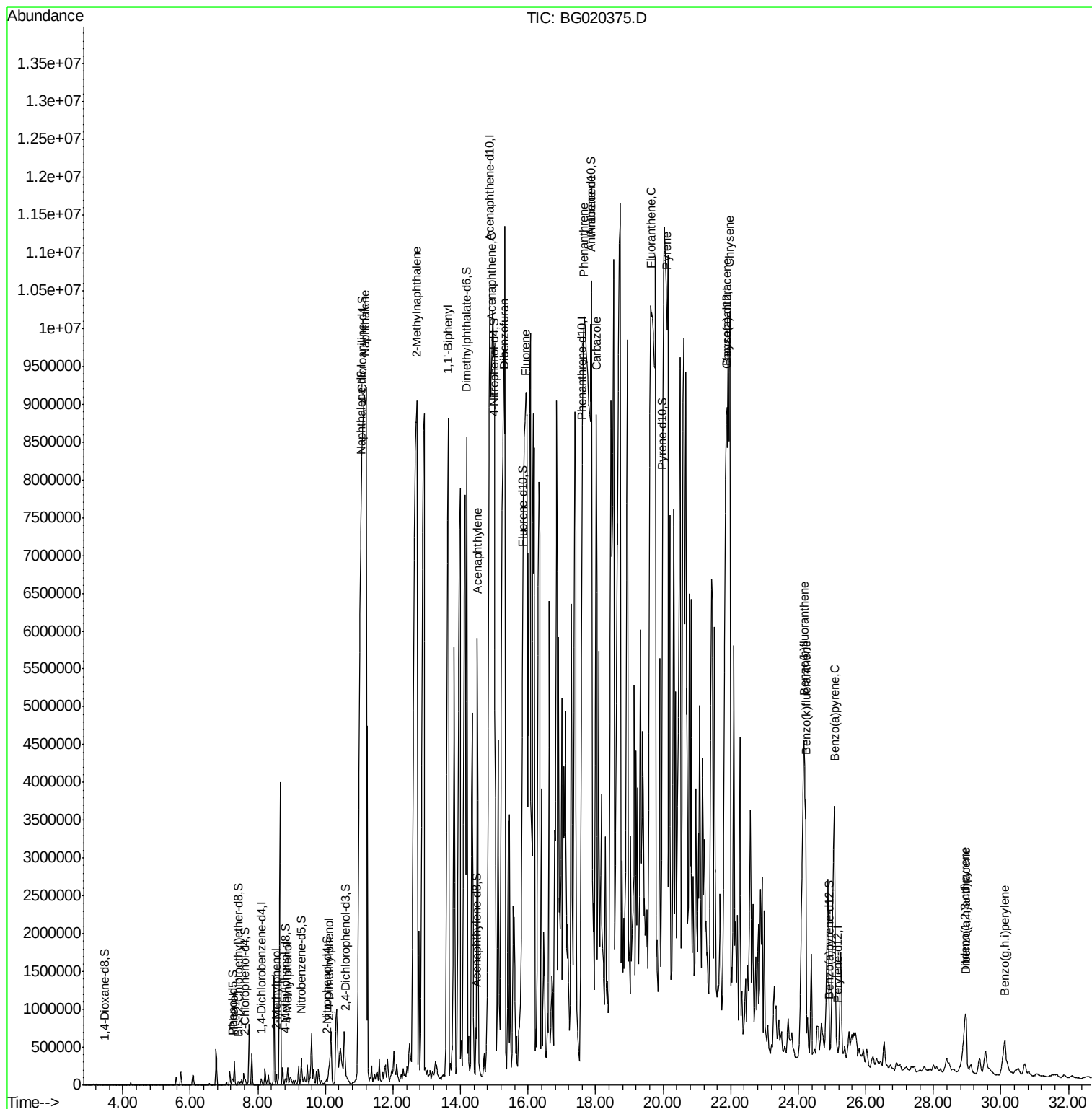
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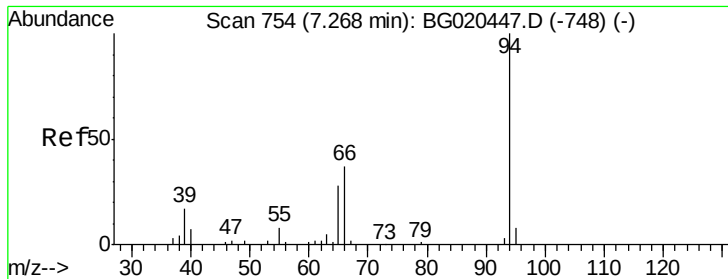
Instrument :
BNA_G
ClientSampleId :
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#6

Phenol

Concen: 7.85 ng/ul

RT: 7.29 min Scan# 757

Delta R.T. 0.00 min

Lab File: BG020375.D

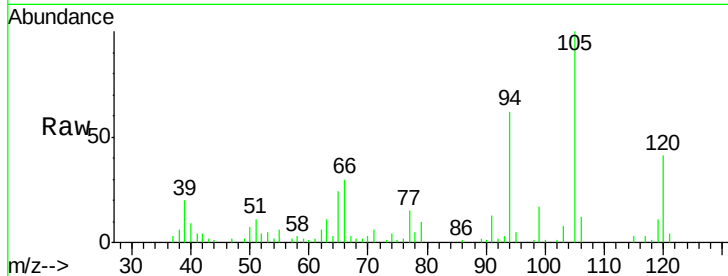
Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampled :

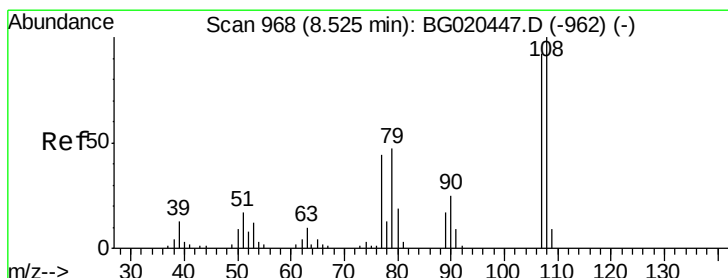
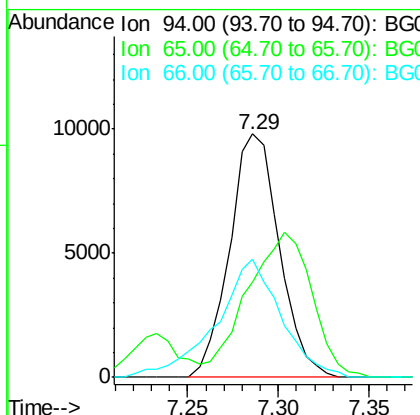
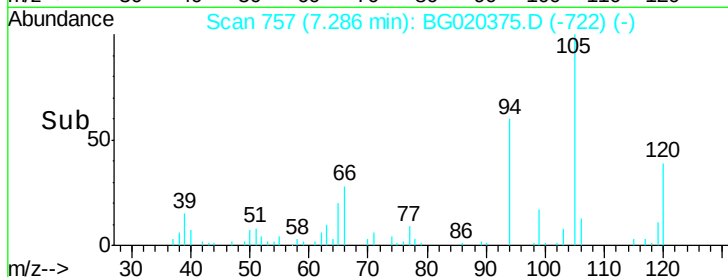
D9N51



Tgt Ion:	94	Resp:	18672
Ion Ratio	Lower	Upper	
94	100		
65	38.9	26.3	39.5
66	48.6	33.3	49.9

Manual Integrations
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#11

2-Methylphenol

Concen: 26.17 ng/ul

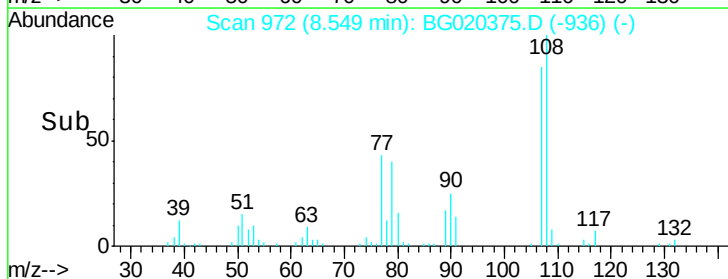
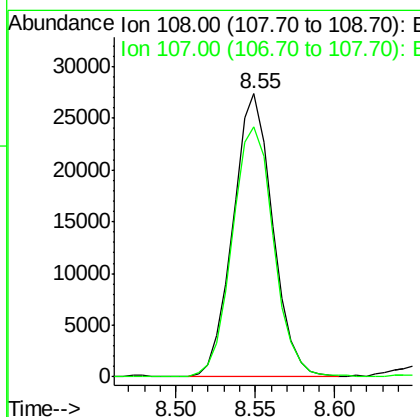
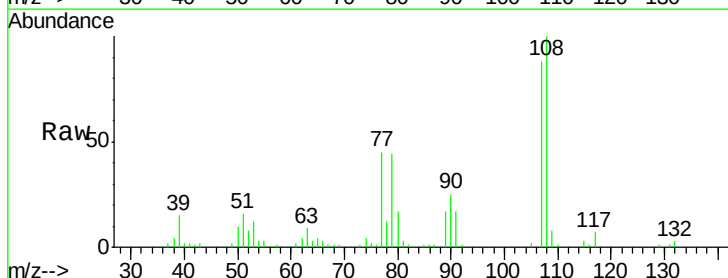
RT: 8.55 min Scan# 972

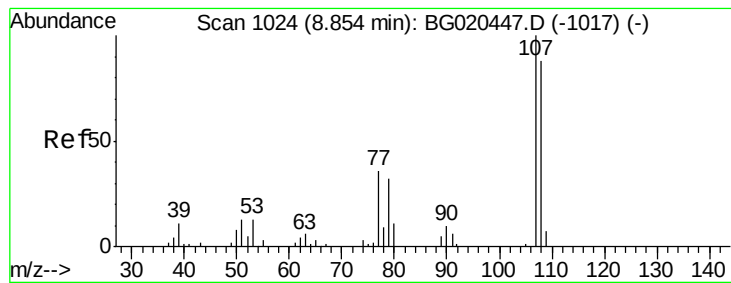
Delta R.T. 0.01 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Tgt Ion:	108	Resp:	47489
Ion Ratio	Lower	Upper	
108	100		
107	88.2	67.5	101.3





#16

4-Methylphenol

Concen: 51.49 ng/ul

RT: 8.88 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampleId :

D9N51

Tgt Ion:108 Resp: 103413

Ion Ratio Lower Upper

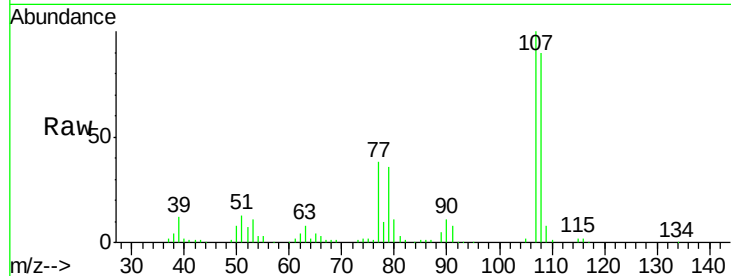
108 100

107 111.7 88.9 133.3

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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

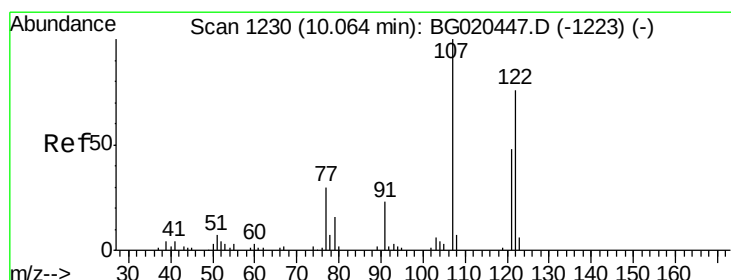
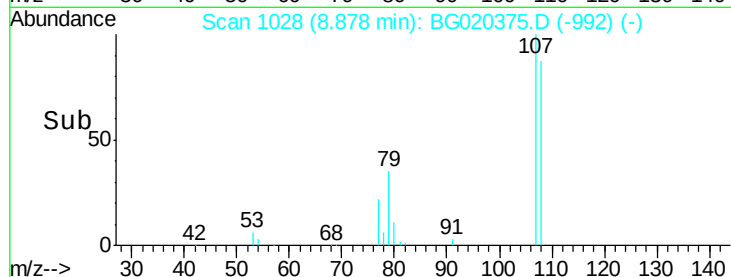
20000

10000

0

8.80 8.85 8.90 8.95 9.00

Time-->



#24

2,4-Dimethylphenol

Concen: 134.74 ng/ul

RT: 10.12 min Scan# 1239

Delta R.T. 0.04 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

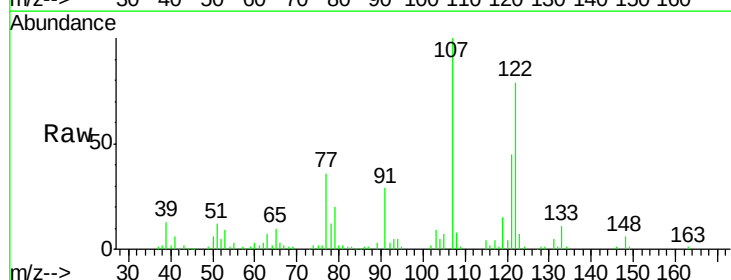
Tgt Ion:107 Resp: 220557

Ion Ratio Lower Upper

107 100

121 45.5 39.0 58.4

122 79.4 62.1 93.1



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

60000

50000

40000

30000

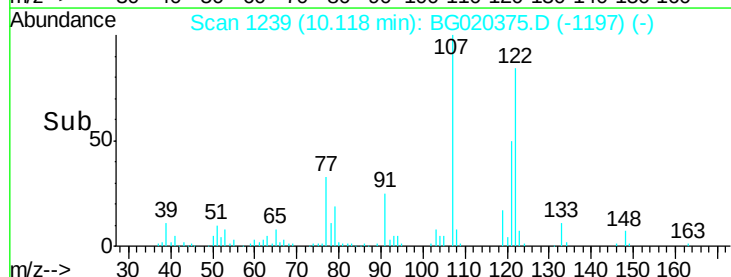
20000

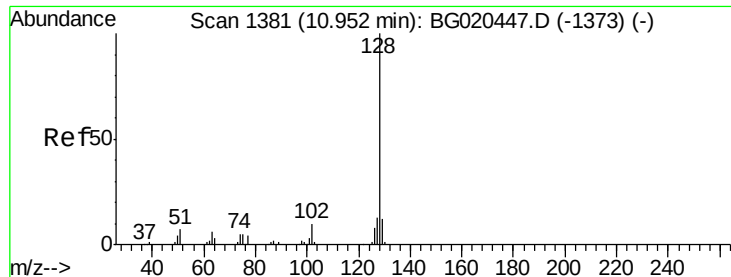
10000

0

10.00 10.10 10.20

Time-->





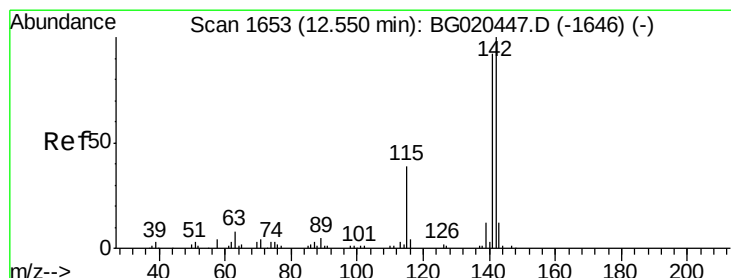
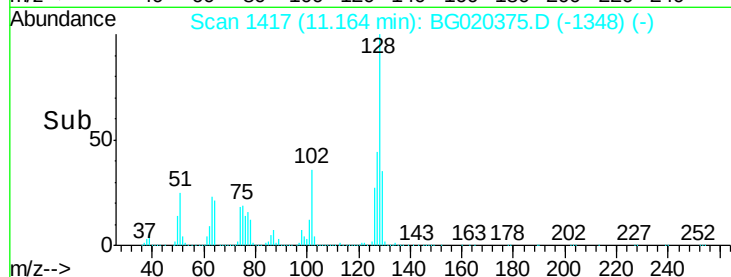
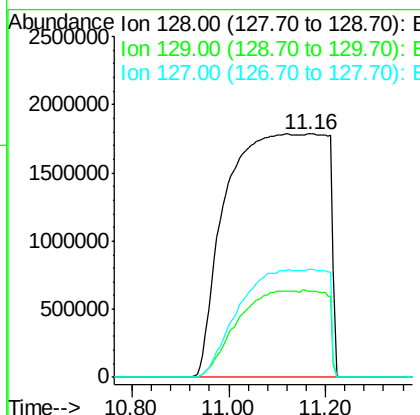
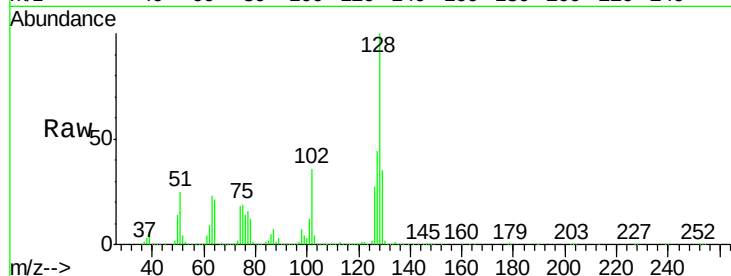
#28
Naphthalene
Concen: 6282.65 ng/ul m
RT: 11.16 min Scan# 1417
Delta R.T. 0.20 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Instrument :
BNA_G
ClientSampleId :
D9N51

Tgt Ion:128 Resp:25428004
Ion Ratio Lower Upper
128 100
129 35.5 8.6 12.8#
127 44.3 10.1 15.1#

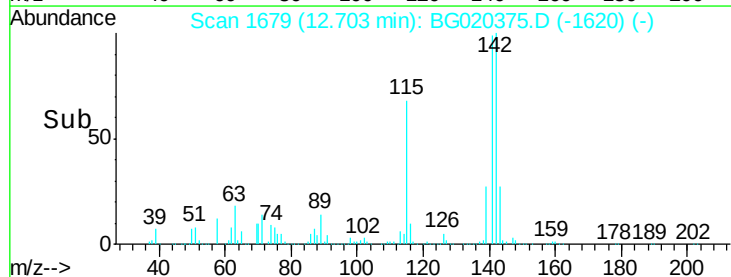
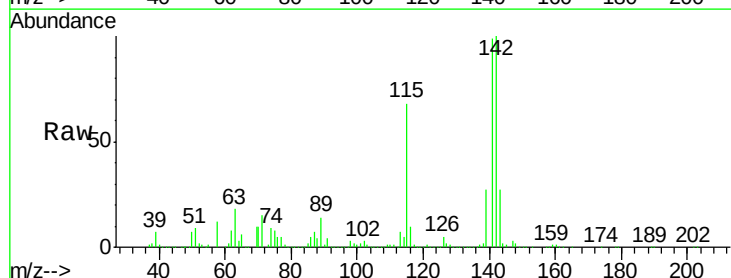
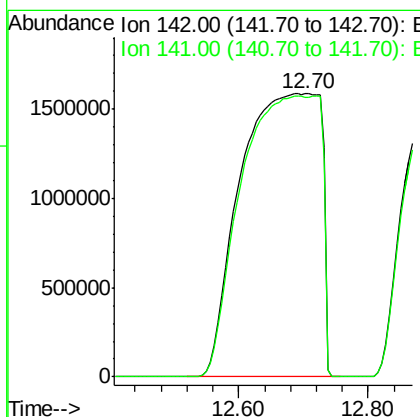
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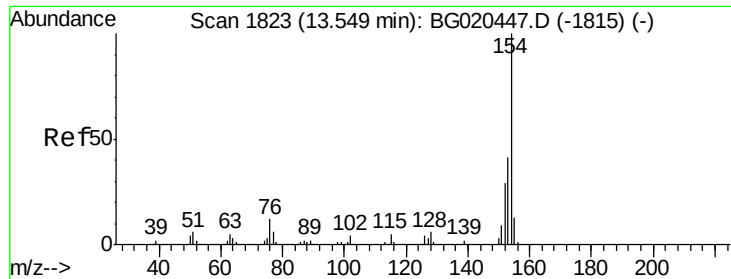
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#34
2-Methylnaphthalene
Concen: 4422.94 ng/ul m
RT: 12.70 min Scan# 1679
Delta R.T. 0.14 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Tgt Ion:142 Resp:13673587
Ion Ratio Lower Upper
142 100
141 98.9 74.9 112.3





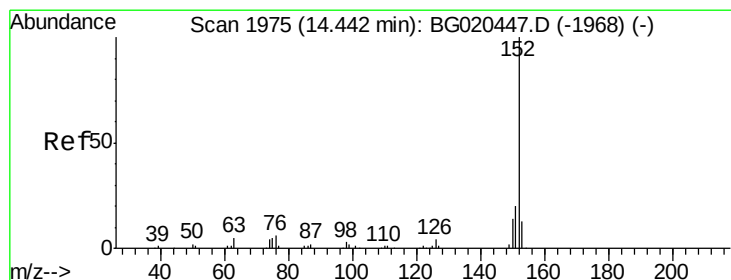
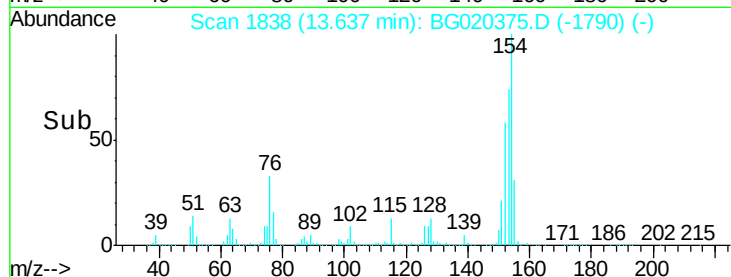
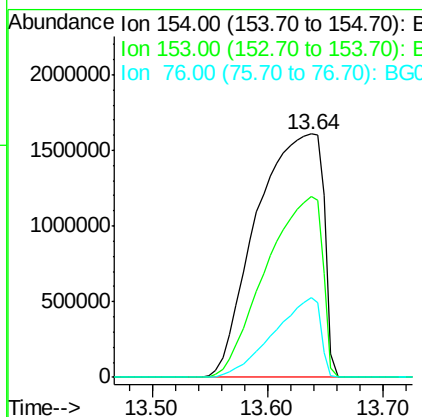
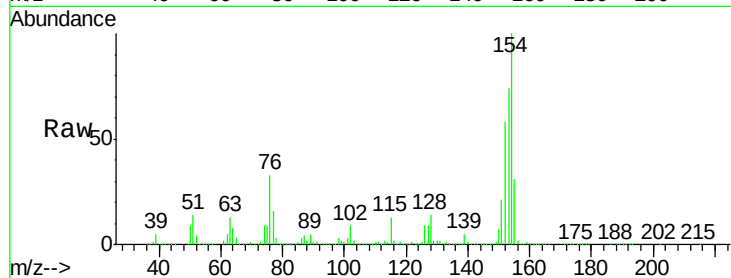
#41
 1,1'-Biphenyl
 Concen: 501.65 ng/ul
 RT: 13.64 min Scan# 1838
 Delta R.T. 0.08 min
 Lab File: BG020375.D
 Acq: 21 Dec 2015 12:14

Instrument :
 BNA_G
 ClientSampleId :
 D9N51

Tgt Ion:154 Resp: 6477896
 Ion Ratio Lower Upper
 154 100
 153 74.4 35.5 53.3#
 76 32.7 10.4 15.6#

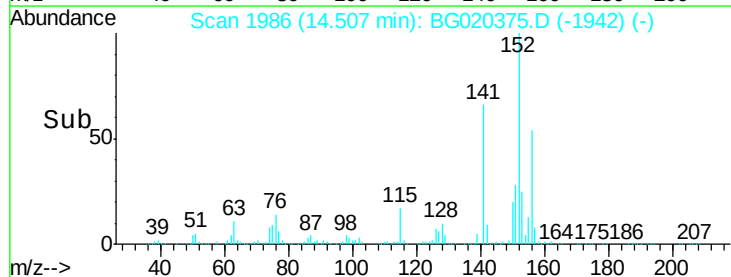
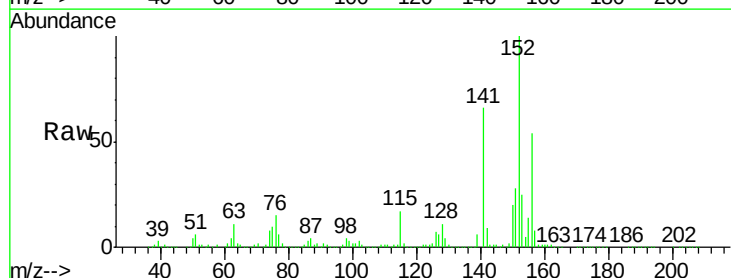
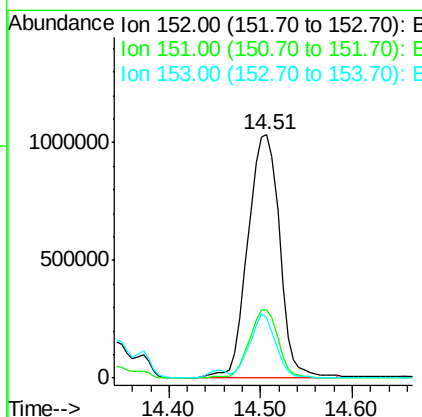
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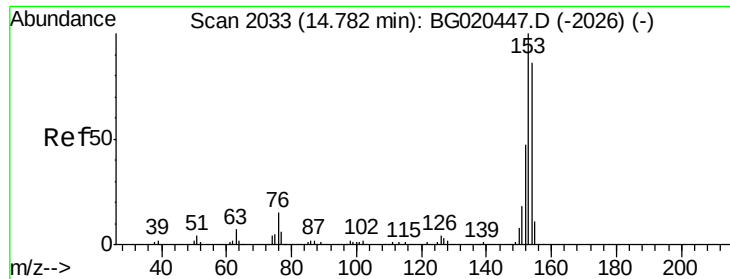
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#48
 Acenaphthylene
 Concen: 146.40 ng/ul m
 RT: 14.51 min Scan# 1986
 Delta R.T. 0.06 min
 Lab File: BG020375.D
 Acq: 21 Dec 2015 12:14

Tgt Ion:152 Resp: 2505358
 Ion Ratio Lower Upper
 152 100
 151 28.2 16.4 24.6#
 153 25.0 10.4 15.6#





#50

Acenaphthene

Concen: 1538.51 ng/ul m

RT: 14.91 min Scan# 2054

Delta R.T. 0.12 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampleId :

D9N51

Tgt Ion:153 Resp:17714524

Ion Ratio Lower Upper

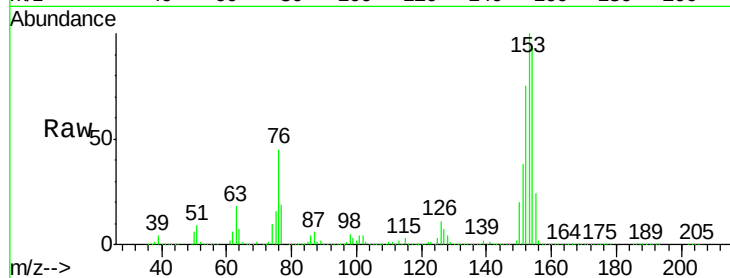
153 100

152 75.0 37.6 56.4#

154 94.2 67.9 101.9

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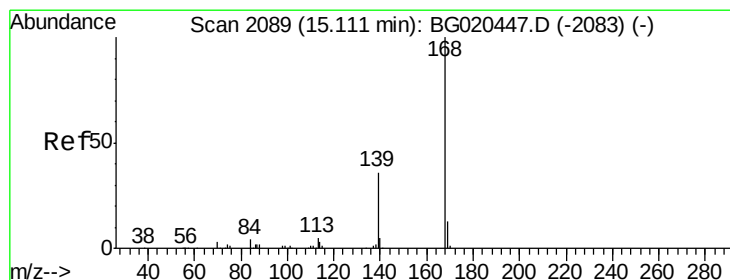
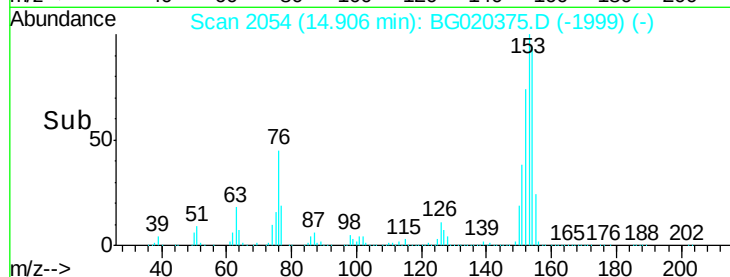
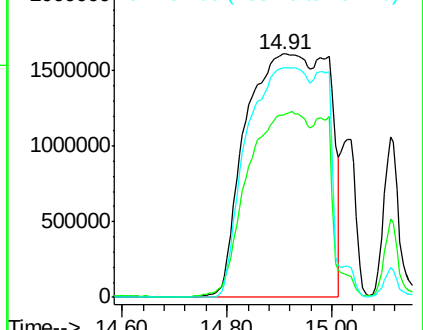
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 816.91 ng/ul m

RT: 15.30 min Scan# 2121

Delta R.T. 0.18 min

Lab File: BG020375.D

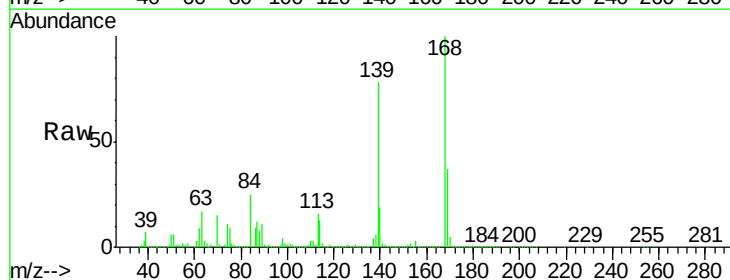
Acq: 21 Dec 2015 12:14

Tgt Ion:168 Resp:13992206

Ion Ratio Lower Upper

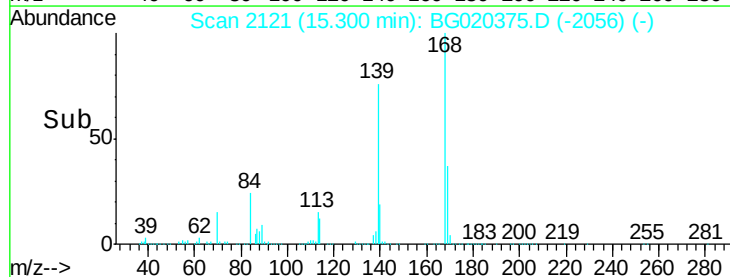
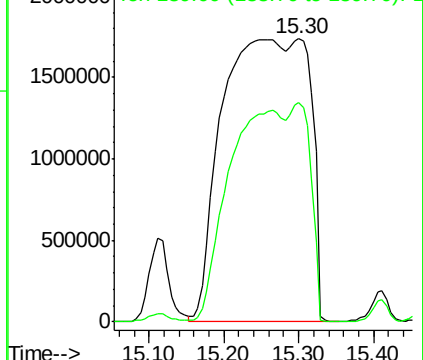
168 100

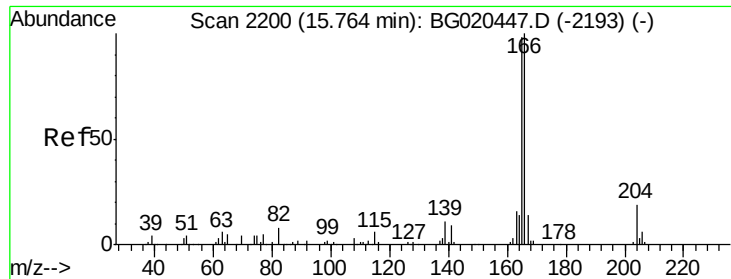
139 77.7 30.5 45.7#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 1168.34 ng/ul m

RT: 15.91 min Scan# 2224

Delta R.T. 0.13 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampleId :

D9N51

Tgt Ion:166 Resp:16069932

Ion Ratio Lower Upper

166 100

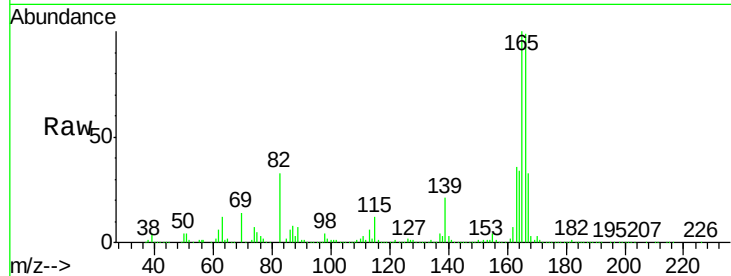
165 101.4 81.4 122.0

167 33.2 11.2 16.8#

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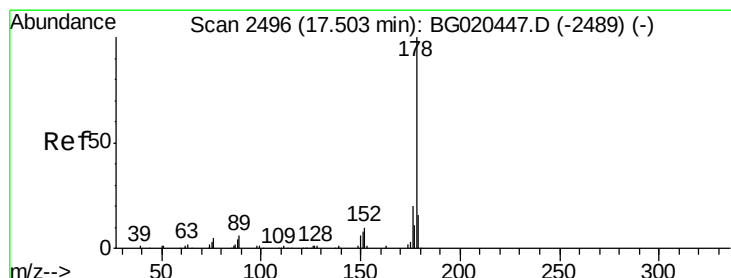
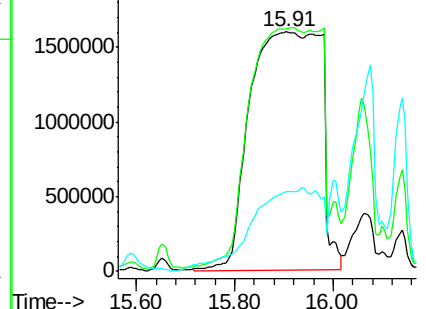
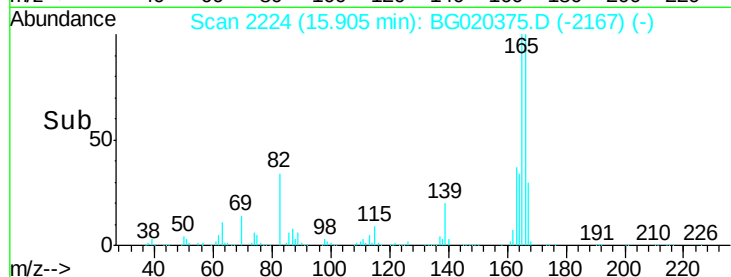
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 6161.06 ng/ul m

RT: 17.65 min Scan# 2521

Delta R.T. 0.14 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

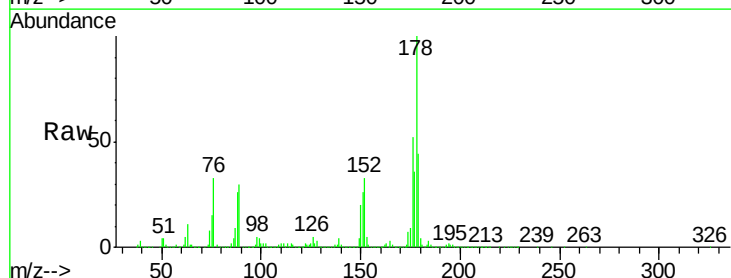
Tgt Ion:178 Resp:30204287

Ion Ratio Lower Upper

178 100

179 43.9 12.9 19.3#

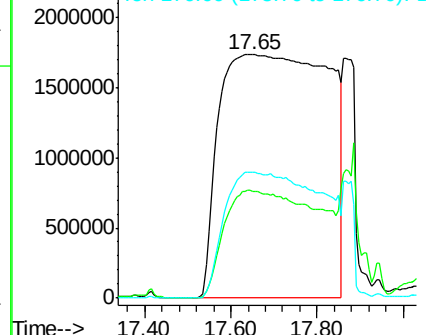
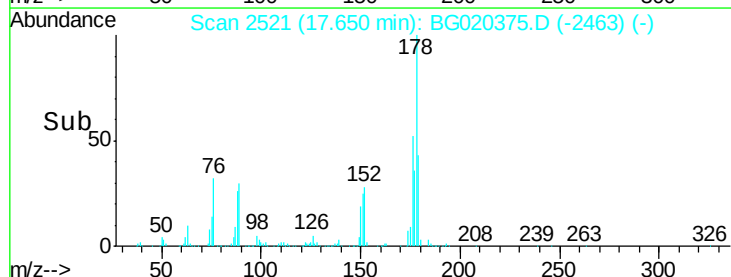
176 51.6 15.3 22.9#

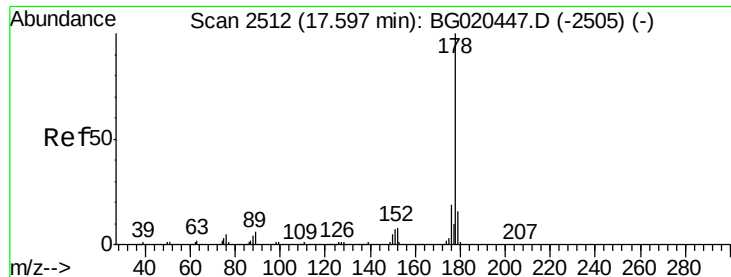


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 700.85 ng/ul m

RT: 17.86 min Scan# 2557

Delta R.T. 0.26 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampled :

D9N51

Tgt Ion:178 Resp: 3484866

Ion Ratio Lower Upper

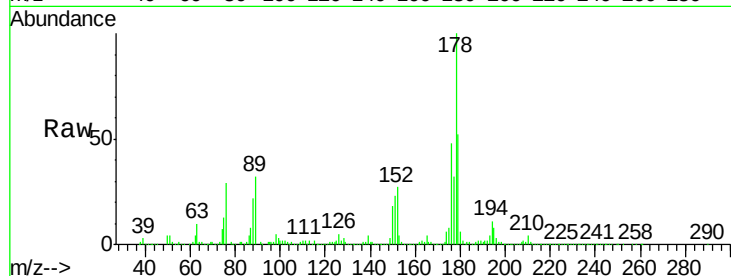
178 100

179 51.8 12.3 18.5#

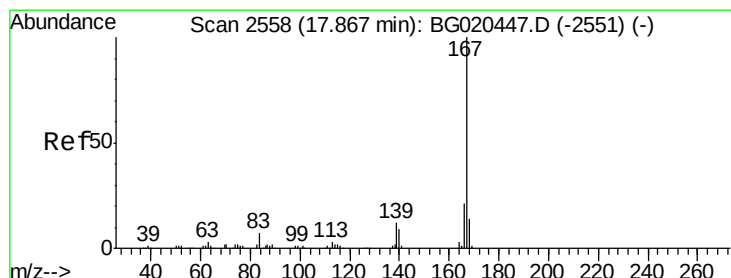
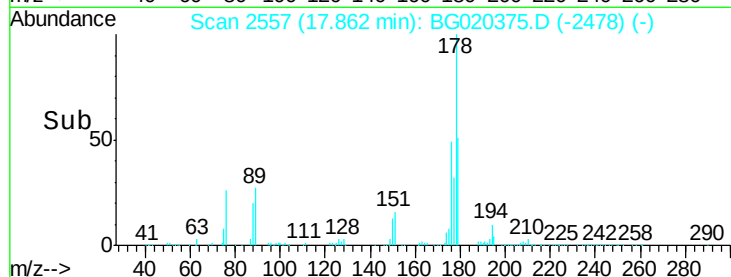
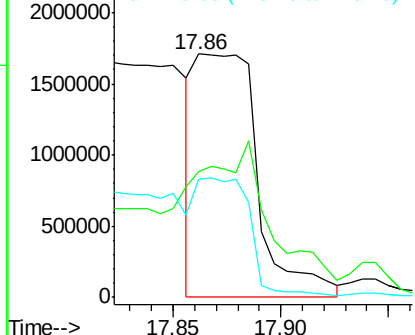
176 48.4 14.3 21.5#

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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



#75

Carbazole

Concen: 1333.31 ng/ul m

RT: 18.03 min Scan# 2585

Delta R.T. 0.16 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

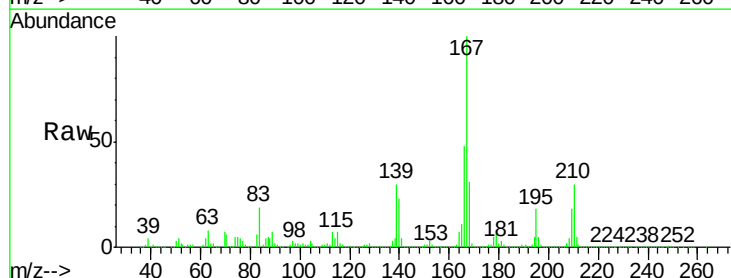
Tgt Ion:167 Resp: 5570601

Ion Ratio Lower Upper

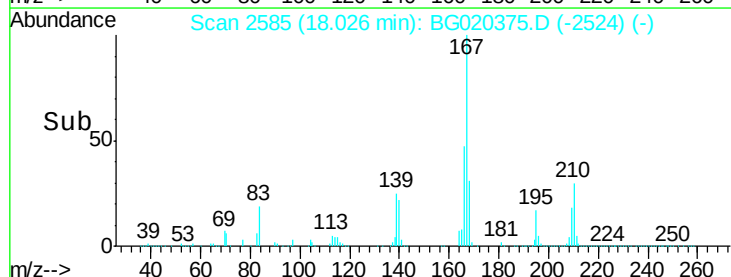
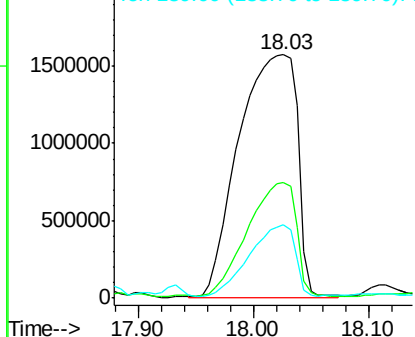
167 100

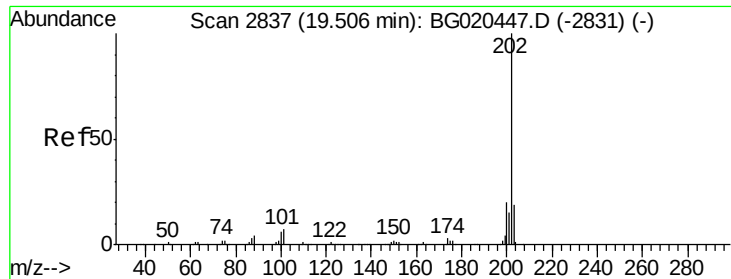
166 47.6 17.0 25.6#

139 30.0 10.1 15.1#



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





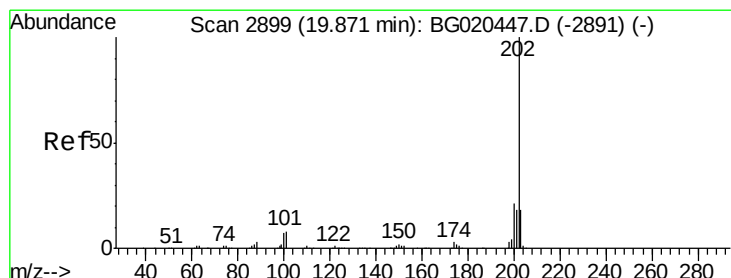
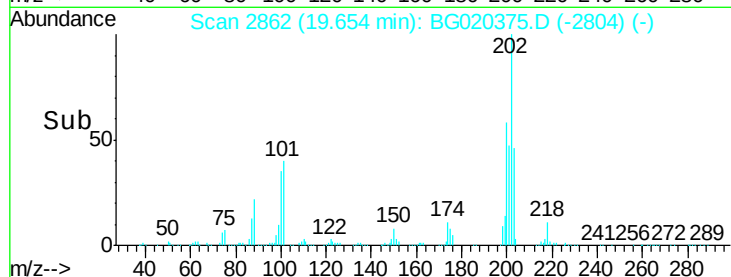
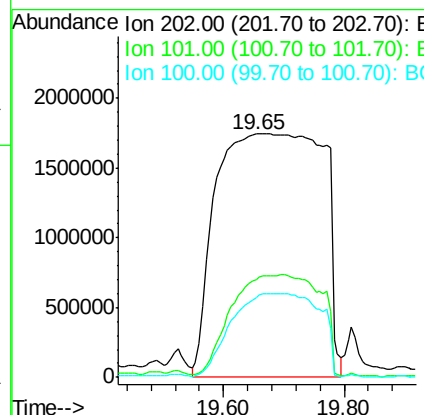
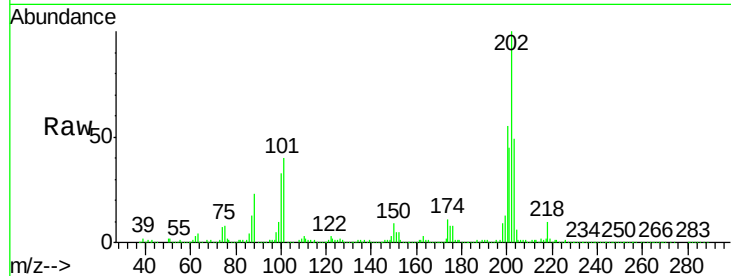
#77
Fluoranthene
 Concen: 3718.10 ng/ul m
 RT: 19.65 min Scan# 2862
 Delta R.T. 0.14 min
 Lab File: BG020375.D
 Acq: 21 Dec 2015 12:14

Instrument :
 BNA_G
 ClientSampleId :
 D9N51

Tgt Ion:202 Resp:21303065
 Ion Ratio Lower Upper
 202 100
 101 40.2 6.2 9.4#
 100 33.0 5.1 7.7#

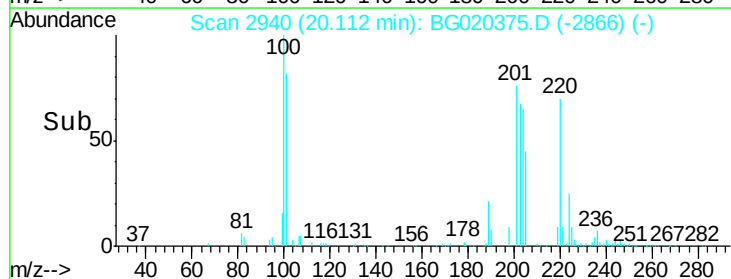
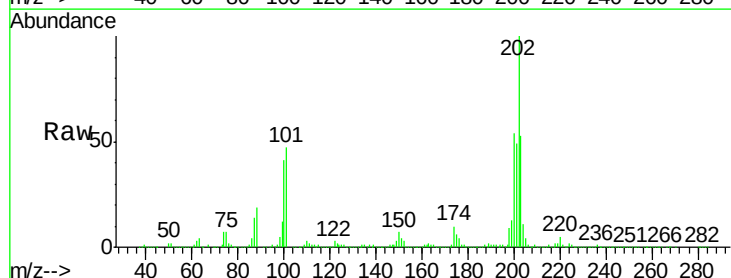
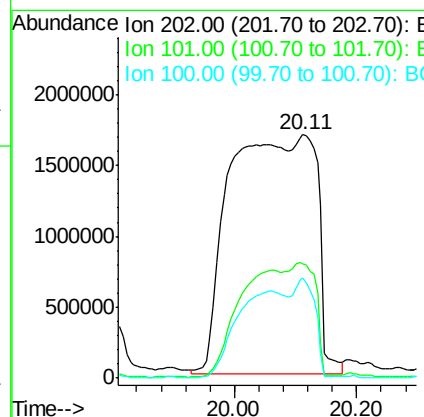
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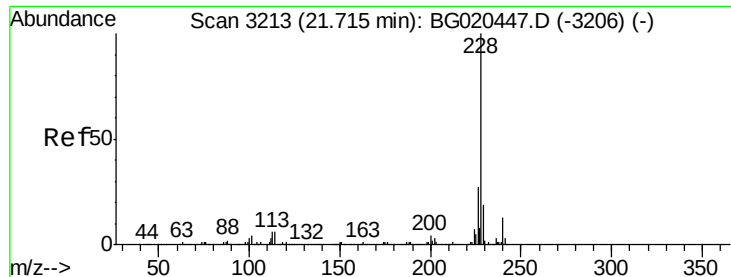
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#80
Pyrene
 Concen: 1373.66 ng/ul m
 RT: 20.11 min Scan# 2940
 Delta R.T. 0.23 min
 Lab File: BG020375.D
 Acq: 21 Dec 2015 12:14

Tgt Ion:202 Resp:16612569
 Ion Ratio Lower Upper
 202 100
 101 47.2 7.0 10.4#
 100 41.1 6.4 9.6#





#83

Benzo(a)anthracene

Concen: 950.19 ng/ul m

RT: 21.87 min Scan# 3240

Delta R.T. 0.15 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

Instrument :

BNA_G

ClientSampleId :

D9N51

Tgt Ion:228 Resp:11078444

Ion Ratio Lower Upper

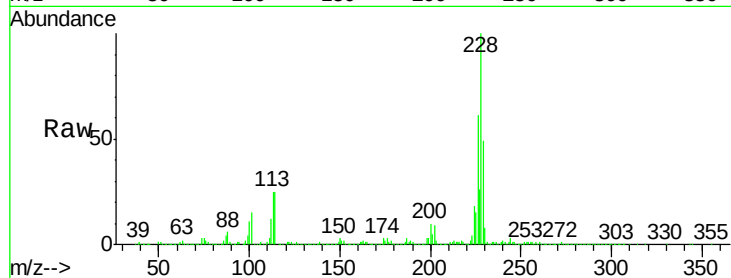
228 100

229 49.0 15.8 23.8#

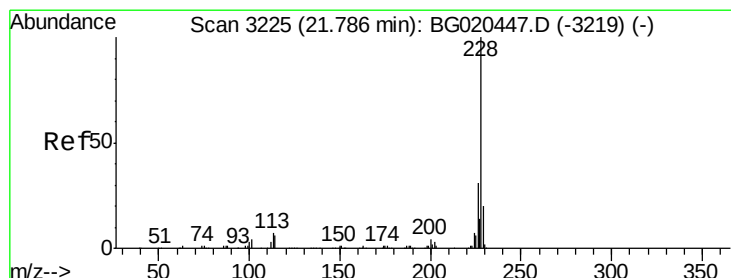
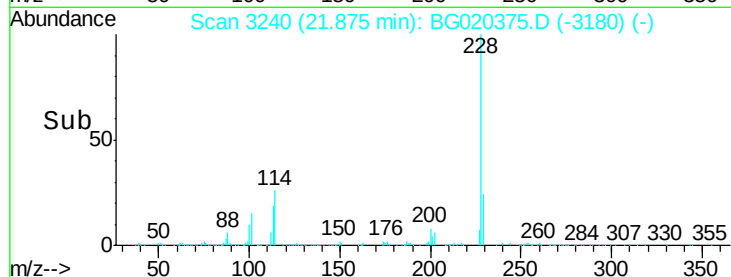
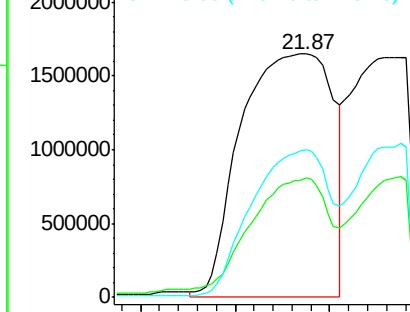
226 60.5 21.8 32.6#

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#85

Chrysene

Concen: 633.16 ng/ul m

RT: 21.97 min Scan# 3257

Delta R.T. 0.19 min

Lab File: BG020375.D

Acq: 21 Dec 2015 12:14

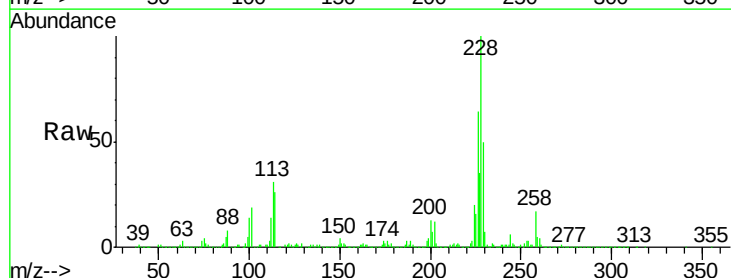
Tgt Ion:228 Resp: 6952517

Ion Ratio Lower Upper

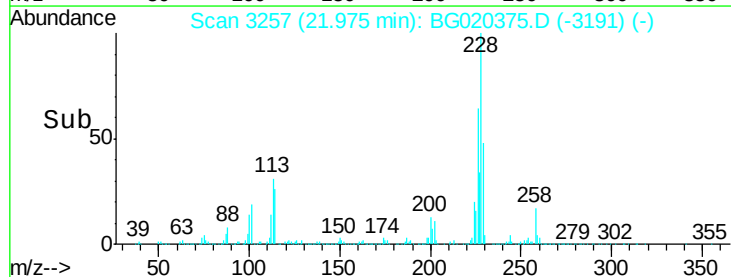
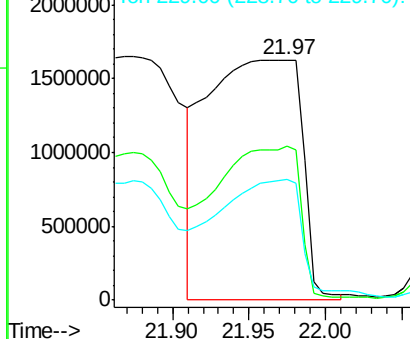
228 100

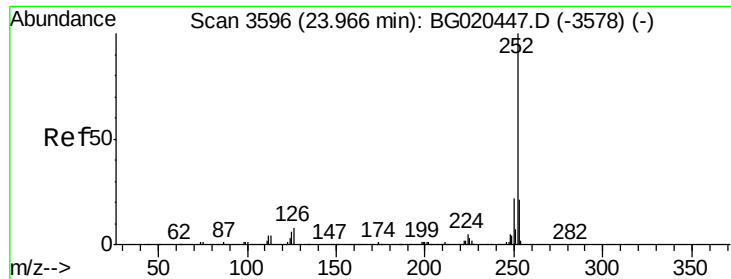
226 64.0 23.9 35.9#

229 50.4 15.6 23.4#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





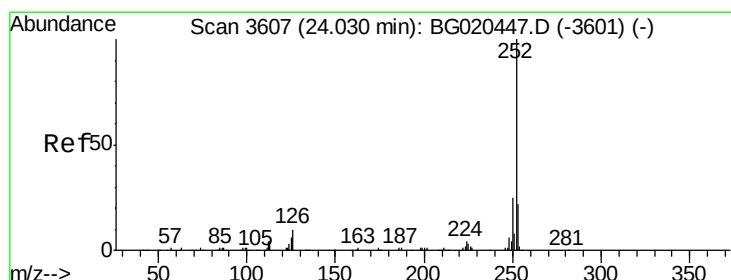
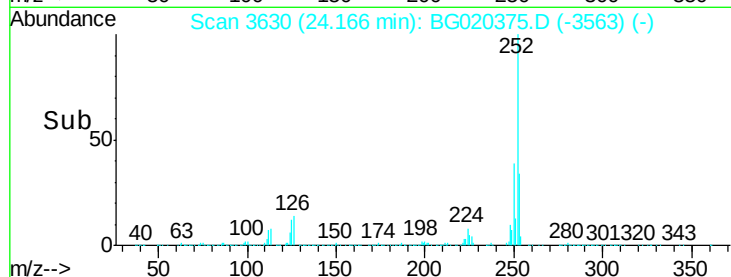
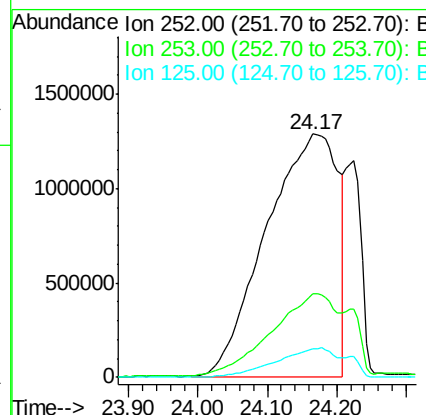
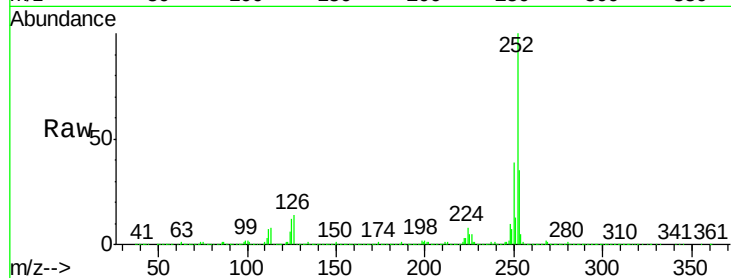
#88
Benzo(b)fluoranthene
Concen: 867.51 ng/ul m
RT: 24.17 min Scan# 3630
Delta R.T. 0.19 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Instrument :
BNA_G
ClientSampleId :
D9N51

Tgt Ion:252 Resp: 9244986
Ion Ratio Lower Upper
252 100
253 34.5 16.7 25.1#
125 12.0 6.2 9.2#

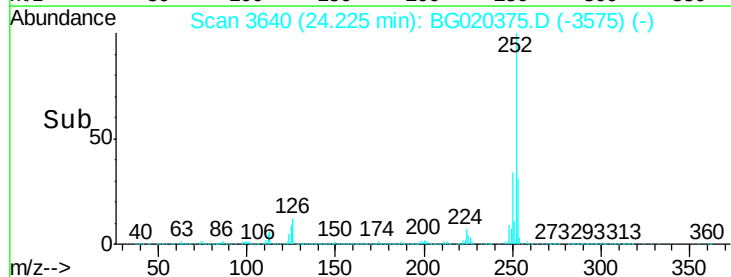
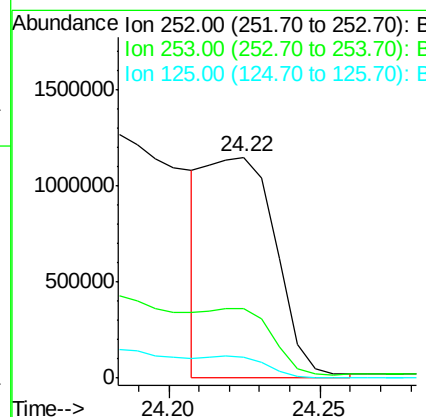
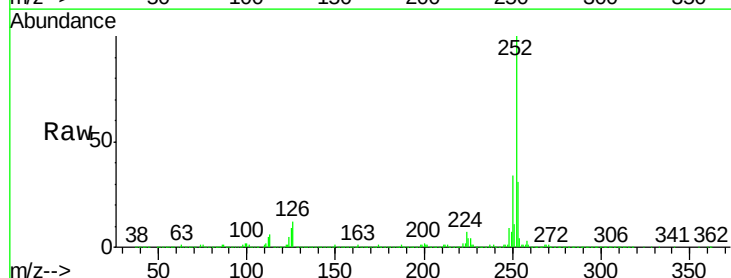
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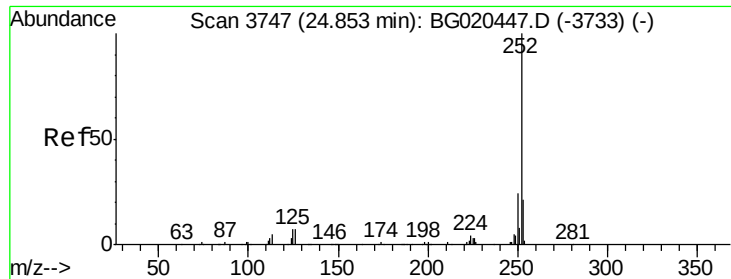
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#89
Benzo(k)fluoranthene
Concen: 182.95 ng/ul m
RT: 24.22 min Scan# 3640
Delta R.T. 0.18 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Tgt Ion:252 Resp: 1870933
Ion Ratio Lower Upper
252 100
253 31.4 17.9 26.9#
125 9.4 5.8 8.6#





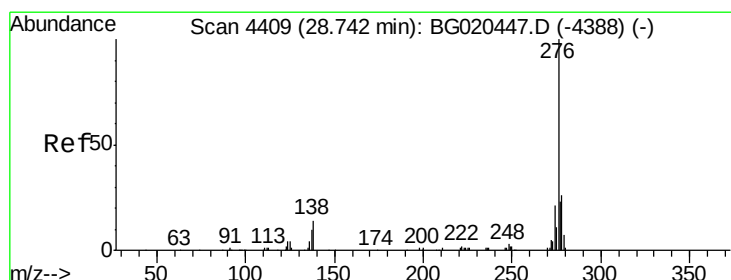
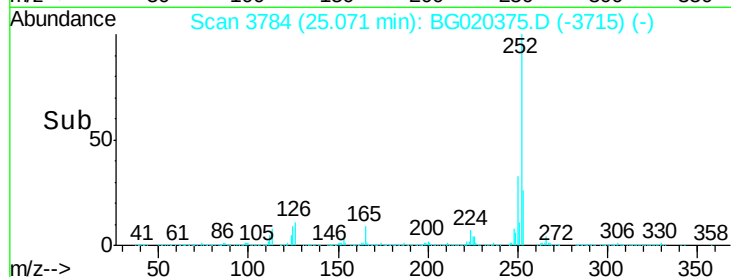
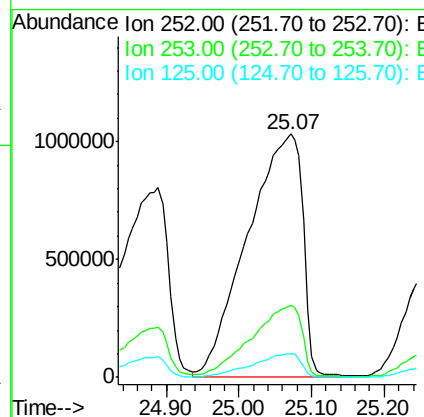
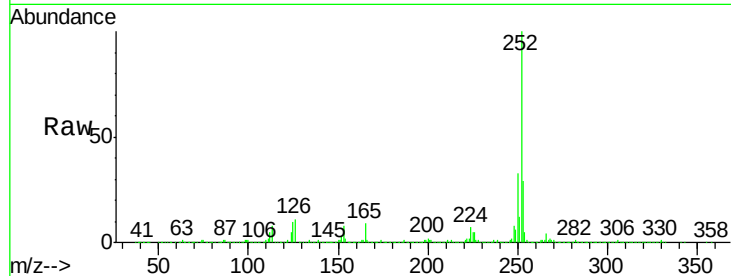
#91
Benzo(a)pyrene
Concen: 539.83 ng/ul m
RT: 25.07 min Scan# 3784
Delta R.T. 0.20 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Instrument :
BNA_G
ClientSampled :
D9N51

Tgt Ion:252 Resp: 5453289
Ion Ratio Lower Upper
252 100
253 29.4 17.0 25.4#
125 9.6 6.2 9.4#

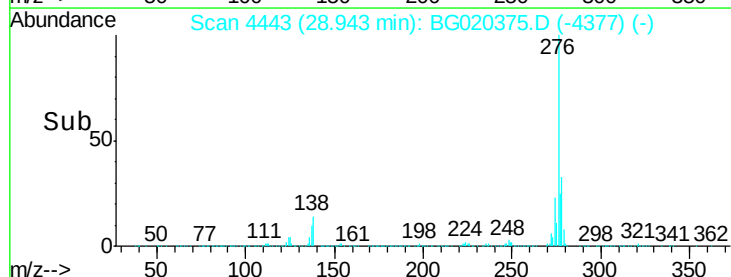
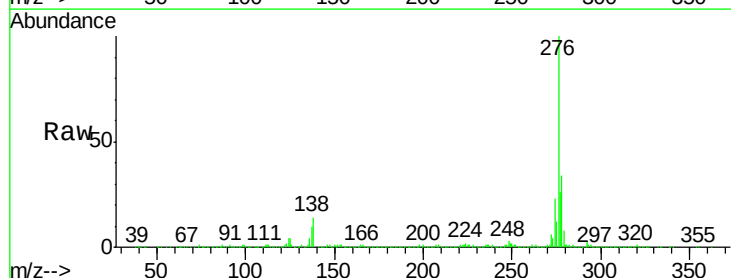
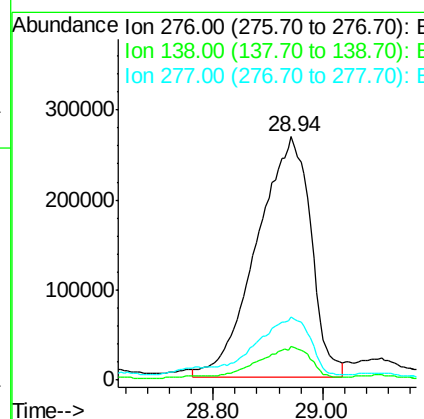
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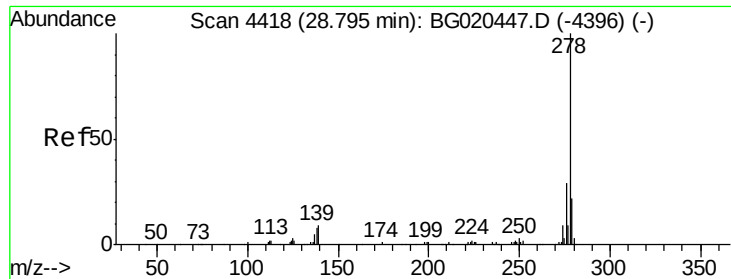
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#92
Indeno(1,2,3-cd)pyrene
Concen: 153.92 ng/ul m
RT: 28.94 min Scan# 4443
Delta R.T. 0.19 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Tgt Ion:276 Resp: 1851654
Ion Ratio Lower Upper
276 100
138 13.7 11.4 17.0
277 25.7 17.4 26.0





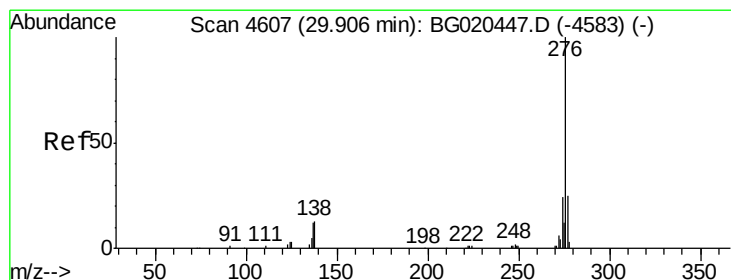
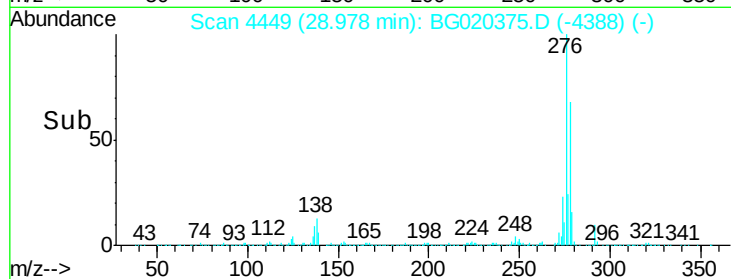
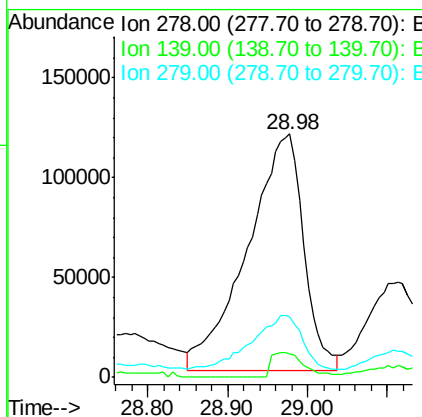
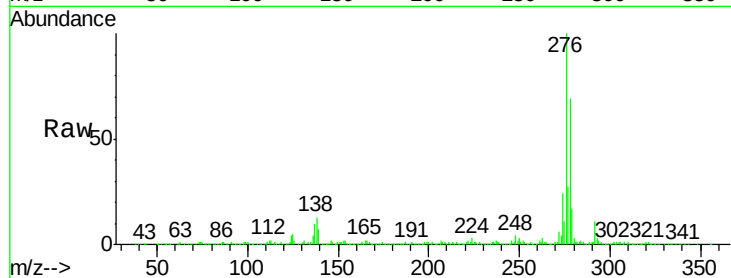
#93
Dibenzo(a,h)anthracene
Concen: 58.35 ng/ul m
RT: 28.98 min Scan# 4449
Delta R.T. 0.16 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Instrument :
BNA_G
ClientSampleId :
D9N51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.9	9.4	14.2
279	25.1	19.4	29.0

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#94
Benzo(g,h,i)perylene
Concen: 137.61 ng/ul m
RT: 30.12 min Scan# 4643
Delta R.T. 0.19 min
Lab File: BG020375.D
Acq: 21 Dec 2015 12:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	12.7	10.8	16.2
277	24.6	19.9	29.9

