Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG121815\
Data File : BG020264.D
Acq On : 18 Dec 2015 3:21
Operator : UM/SJ
Sample : G4767-22RE
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N44RE

Manual Integrations APPROVED
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12/18/2015 6:20:26 PM

Quant Time: Dec 29 08:23:27 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	8.09	152	25216	20.00	ng/ul	0.00
18) Naphthalene-d8	11.01	136	103097m	20.00	ng/ul	0.10
36) Acenaphthene-d10	14.80	164	126822m	20.00	ng/ul	0.07
62) Phenanthrene-d10	17.56	188	113238m	20.00	ng/ul	0.09
78) Chrysene-d12	21.83	240	201007m	20.00	ng/ul	0.09
86) Perylene-d12	25.09	264	186327m	20.00	ng/ul	0.07
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.47	96	926	2.03	ng/uL	0.00
5) Phenol-d5	7.25	99	33313	14.98	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	22470	16.94	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	27026	16.71	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	28378	14.92	ng/ul	0.00
19) Nitrobenzene-d5	9.28	128	17490m	21.76	ng/ul	0.01
22) 2-Nitrophenol-d4	10.01	143	16594	18.56	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.56	165	29940	16.53	ng/ul	0.03
29) 4-Chloroaniline-d4	11.14	131	64722	31.81	ng/ul	0.09
44) Dimethylphthalate-d6	14.19	166	82566	8.05	ng/ul	0.06
47) Acenaphthylene-d8	14.45	160	104147	8.73	ng/ul	0.02
52) 4-Nitrophenol-d4	14.99	143	20858	11.34	ng/ul	0.07
58) Fluorene-d10	15.75	176	90767m	9.76	ng/ul	0.03
63) 4,6-Dinitro-2-methylphenol	16.06	200	5075	7.56	ng/ul	0.23
71) Anthracene-d10	17.75	188	86105	16.50	ng/ul	0.18
79) Pyrene-d10	19.91	212	141672m	15.12	ng/ul	0.06
90) Benzo(a)pyrene-d12	25.09	264	186327m	20.05	ng/ul	0.30
Target Compounds						Qvalue
6) Phenol	7.27	94	8752	3.68	ng/ul	99
11) 2-Methylphenol	8.53	108	25434	14.00	ng/ul	97
14) Acetophenone	8.93	105	14410m	4.84	ng/ul	
16) 4-Methylphenol	8.86	108	37588	18.70	ng/ul	99
24) 2,4-Dimethylphenol	10.09	107	124456	57.16	ng/ul	97
28) Naphthalene	11.13	128	16975308	3152.97	ng/ul#	28
34) 2-Methylnaphthalene	12.66	142	8751387	2128.03	ng/ul	95
41) 1,1'-Biphenyl	13.61	154	4347643m	454.40	ng/ul	
45) Dimethylphthalate	14.24	163	48837m	4.66	ng/ul	
48) Acenaphthylene	14.49	152	2091209	164.93	ng/ul#	84
50) Acenaphthene	14.93	153	13158772m	1542.42	ng/ul	
54) Dibenzofuran	15.24	168	9984836m	786.76	ng/ul	
59) Fluorene	15.90	166	10504694m	1030.75	ng/ul	
70) Phenanthrene	17.63	178	21415664m	3457.52	ng/ul	
72) Anthracene	17.77	178	3279429m	522.01	ng/ul	
75) Carbazole	17.95	167	3542375m	671.07	ng/ul	
77) Fluoranthene	19.65	202	15188285m	2098.14	ng/ul	
80) Pyrene	20.02	202	12214950m	1004.05	ng/ul	
83) Benzo(a)anthracene	21.81	228	6549378m	558.41	ng/ul	
85) Chrysene	21.90	228	5394928m	488.40	ng/ul	
88) Benzo(b)fluoranthene	24.08	252	4950350m	441.42	ng/ul	
89) Benzo(k)fluoranthene	24.13	252	1581801m	146.98	ng/ul	
91) Benzo(a)pyrene	24.97	252	2986558m	280.94	ng/ul	

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Operator : UM/SJ
Sample : G4767-22RE
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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Quant Time: Dec 29 08:23:27 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)
92) Indeno(1,2,3-cd)pyrene	28.85	276	1080671m	85.36	ng/ul	
93) Dibenzo(a,h)anthracene	28.88	278	330774m	31.48	ng/ul	
94) Benzo(g,h,i)perylene	30.03	276	830158m	79.99	ng/ul	

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

Quantitation Report (LSC Reviewed)

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BNA_G
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Manual Integrations APPROVED
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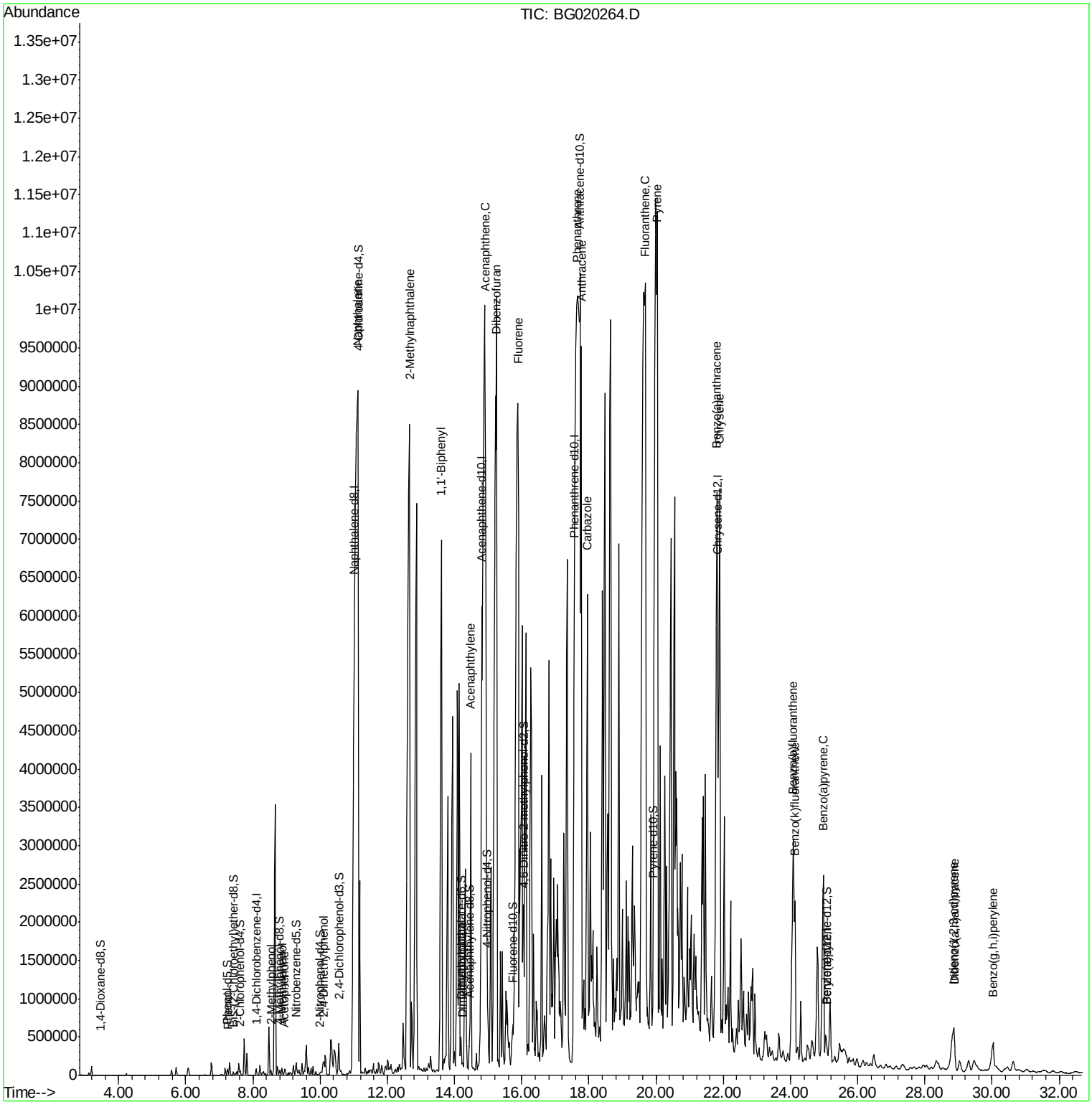
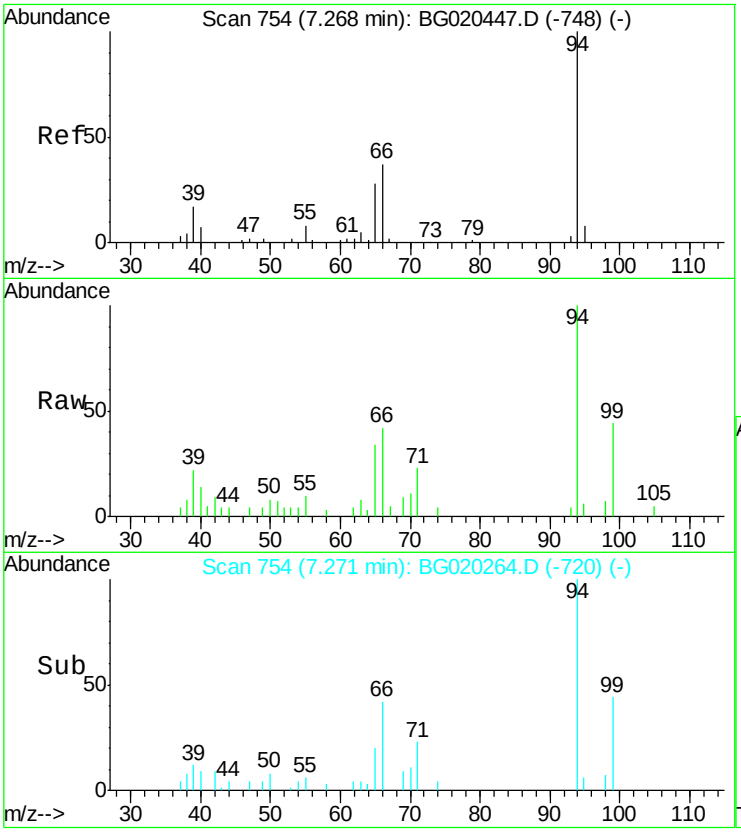
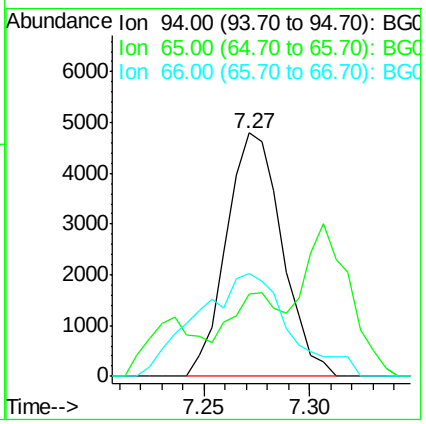




#6
Phenol
Concen: 3.68 ng/ul
RT: 7.27 min Scan# 754
Delta R.T. -0.00 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion: 94 Resp: 8752

Ion	Ratio	Lower	Upper
94	100		
65	33.9	26.3	39.5
66	42.2	33.3	49.9



Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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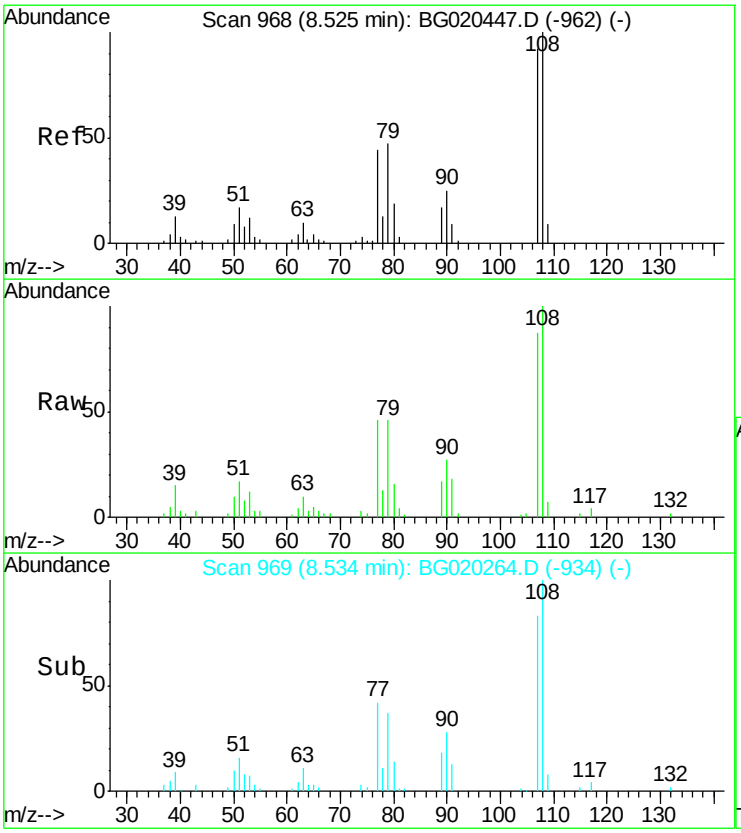
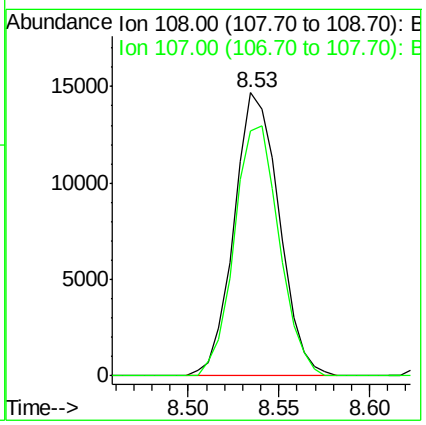
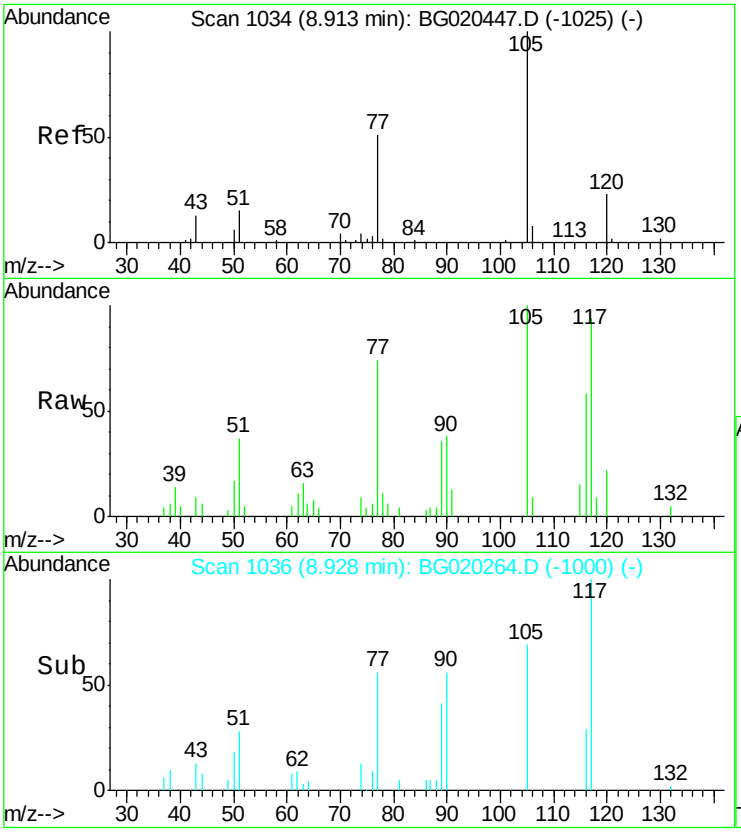


#11
2-Methylphenol
Concen: 14.00 ng/ul
RT: 8.53 min Scan# 969
Delta R.T. 0.00 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:108 Resp: 25434

Ion	Ratio	Lower	Upper
108	100		
107	86.8	67.5	101.3

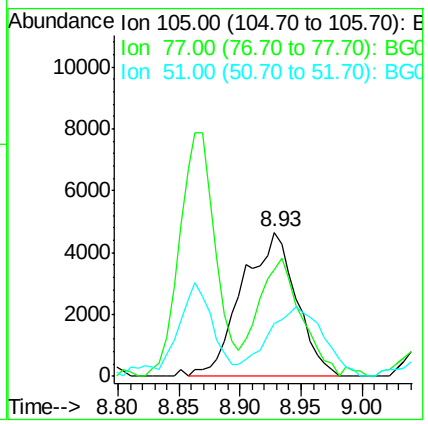




#14
Acetophenone
Concen: 4.84 ng/ul m
RT: 8.93 min Scan# 1036
Delta R.T. 0.01 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:105 Resp: 14410

Ion	Ratio	Lower	Upper
105	100		
77	74.0	65.2	97.8
51	37.1	22.6	33.8#



Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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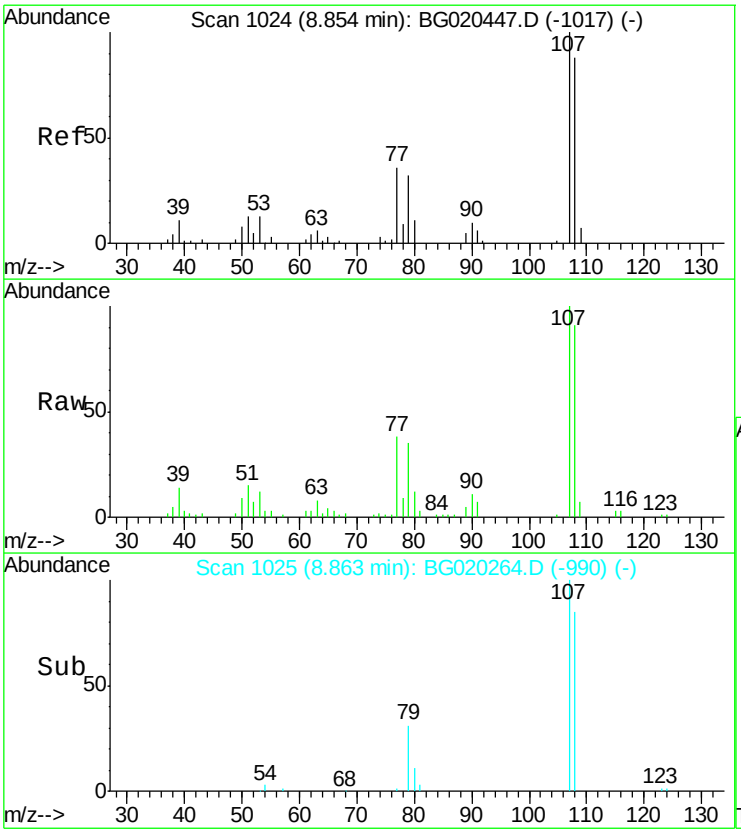
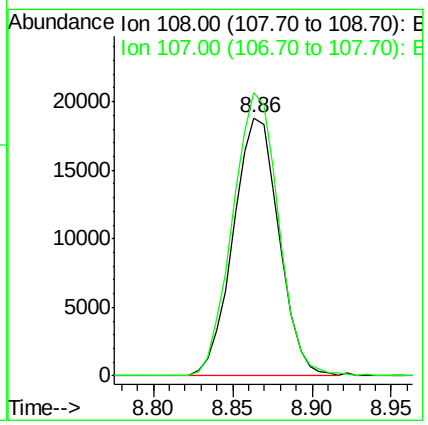
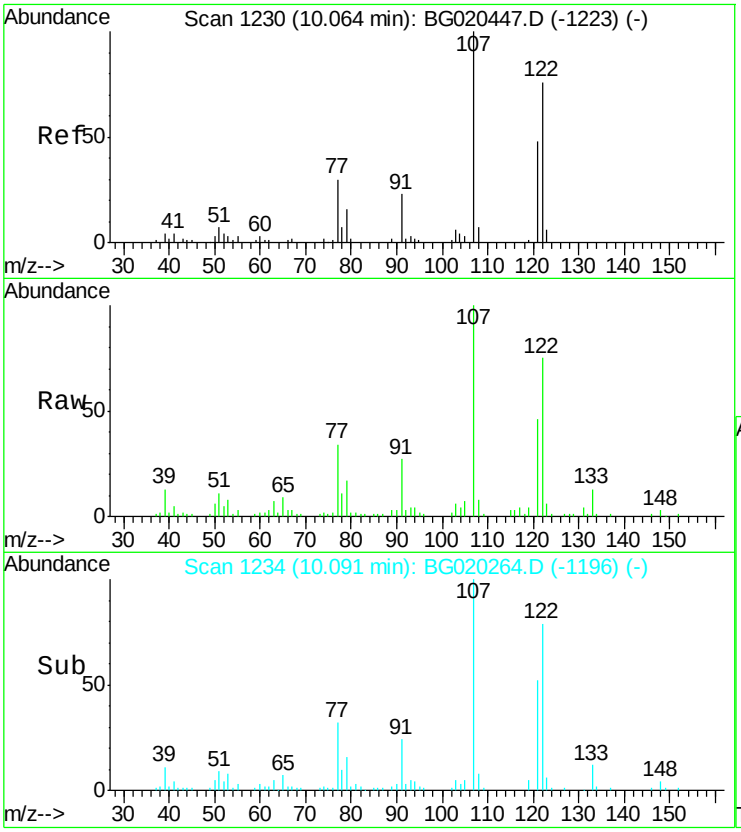


#16
4-Methylphenol
Concen: 18.70 ng/ul
RT: 8.86 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:108 Resp: 37588

Ion	Ratio	Lower	Upper
108	100		
107	109.7	88.9	133.3

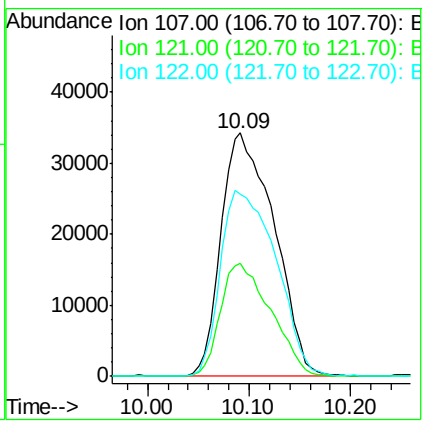




#24
2,4-Dimethylphenol
Concen: 57.16 ng/ul
RT: 10.09 min Scan# 1234
Delta R.T. 0.02 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:107 Resp: 124456

Ion	Ratio	Lower	Upper
107	100		
121	46.5	39.0	58.4
122	74.7	62.1	93.1



Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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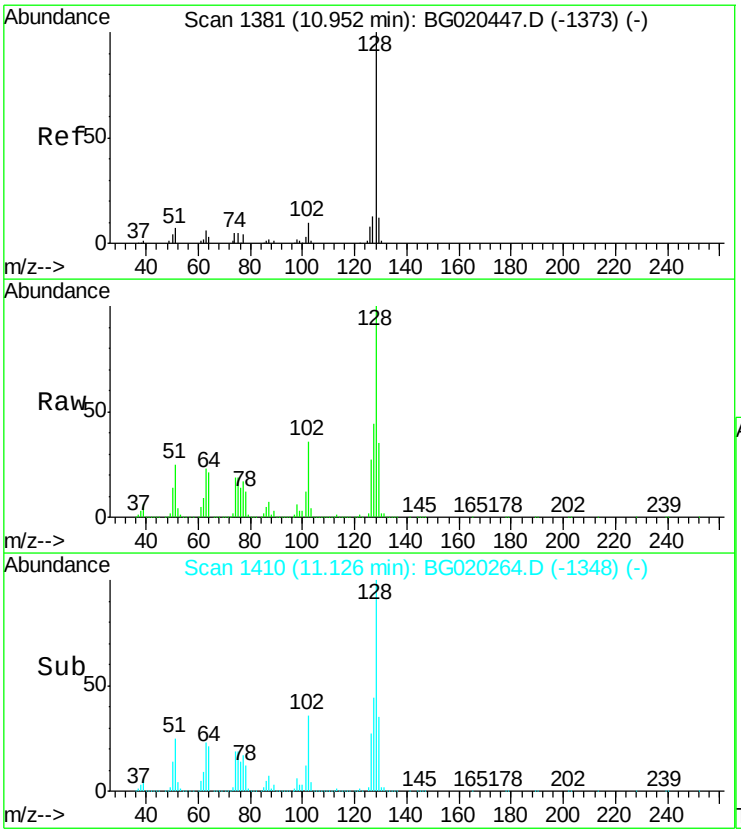
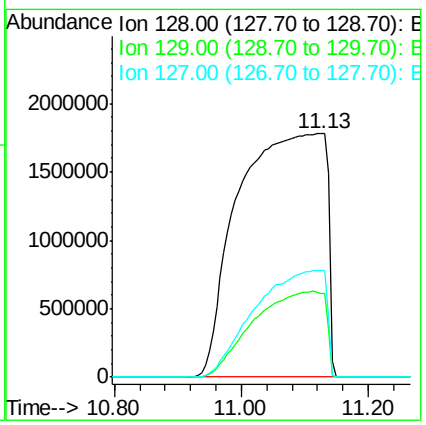
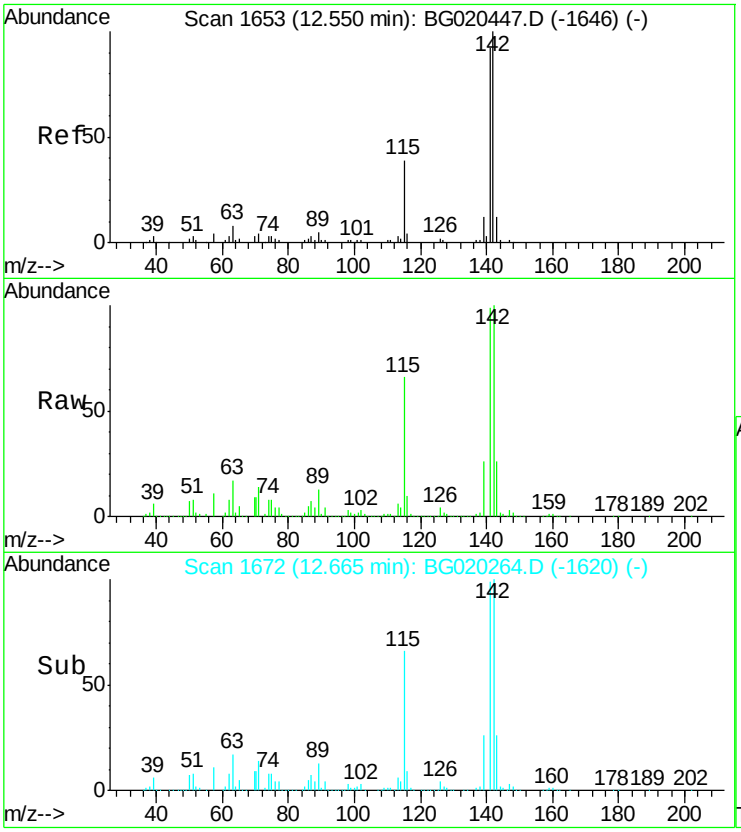


#28
Naphthalene
Concen: 3152.97 ng/ul
RT: 11.13 min Scan# 1410
Delta R.T. 0.16 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:128 Resp:16975308

Ion	Ratio	Lower	Upper
128	100		
129	34.6	8.6	12.8#
127	43.9	10.1	15.1#





#34
2-Methylnaphthalene
Concen: 2128.03 ng/ul
RT: 12.66 min Scan# 1672
Delta R.T. 0.10 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:142 Resp: 8751387

Ion	Ratio	Lower	Upper
142	100		
141	98.8	74.9	112.3

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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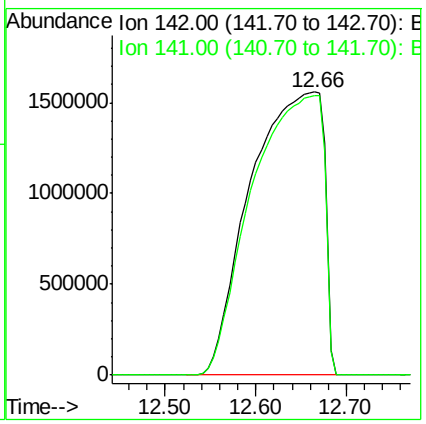
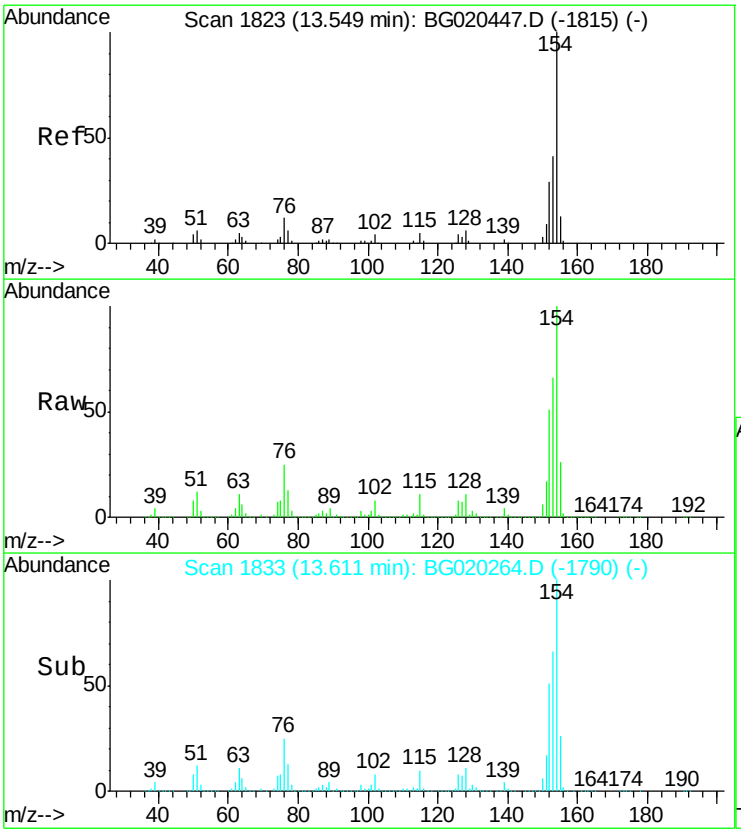
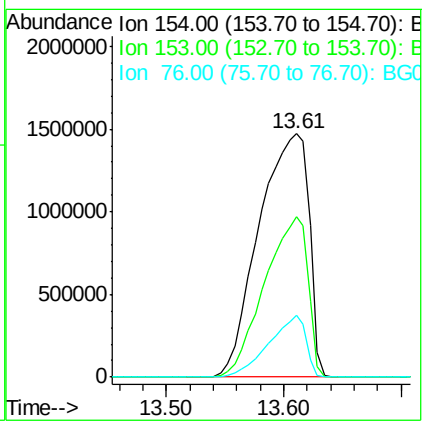


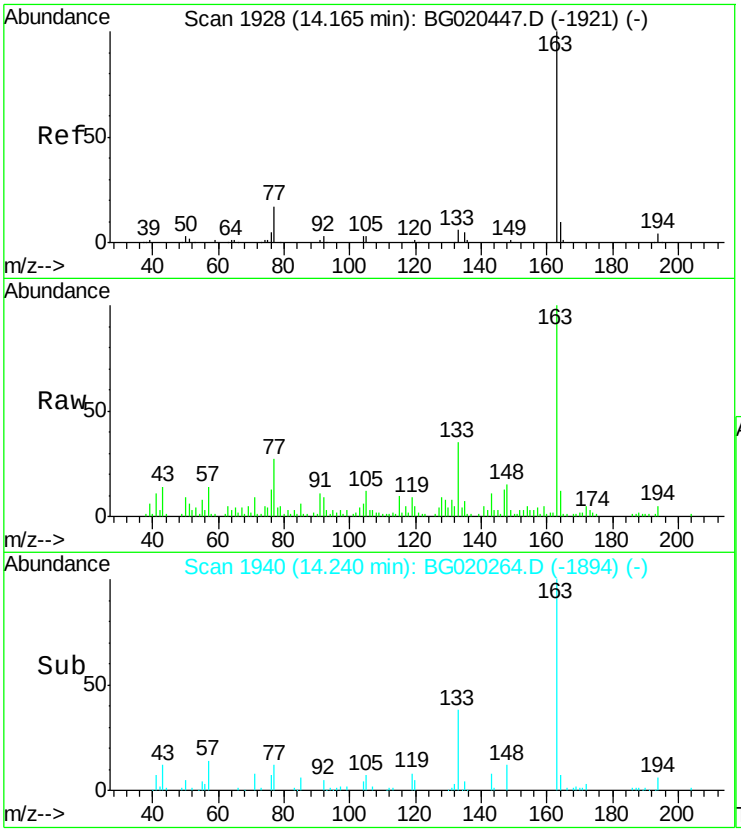


#41
1,1'-Biphenyl
Concen: 454.40 ng/ul m
RT: 13.61 min Scan# 1833
Delta R.T. 0.05 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:154 Resp: 4347643

Ion	Ratio	Lower	Upper
154	100		
153	65.8	35.5	53.3#
76	25.3	10.4	15.6#





#45
Dimethylphthalate
Concen: 4.66 ng/ul m
RT: 14.24 min Scan# 1940
Delta R.T. 0.07 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:163 Resp: 48837

Ion	Ratio	Lower	Upper
163	100		
194	5.0	3.5	5.3
164	12.0	7.7	11.5#

Instrument :
BNA_G
ClientSampleId :
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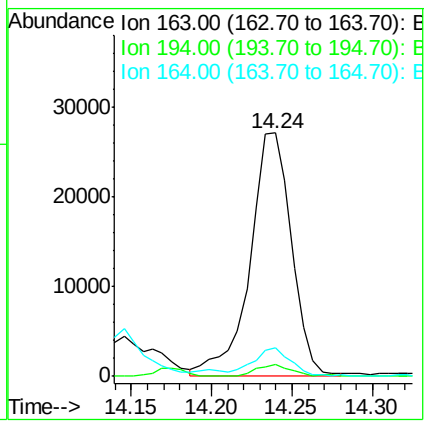
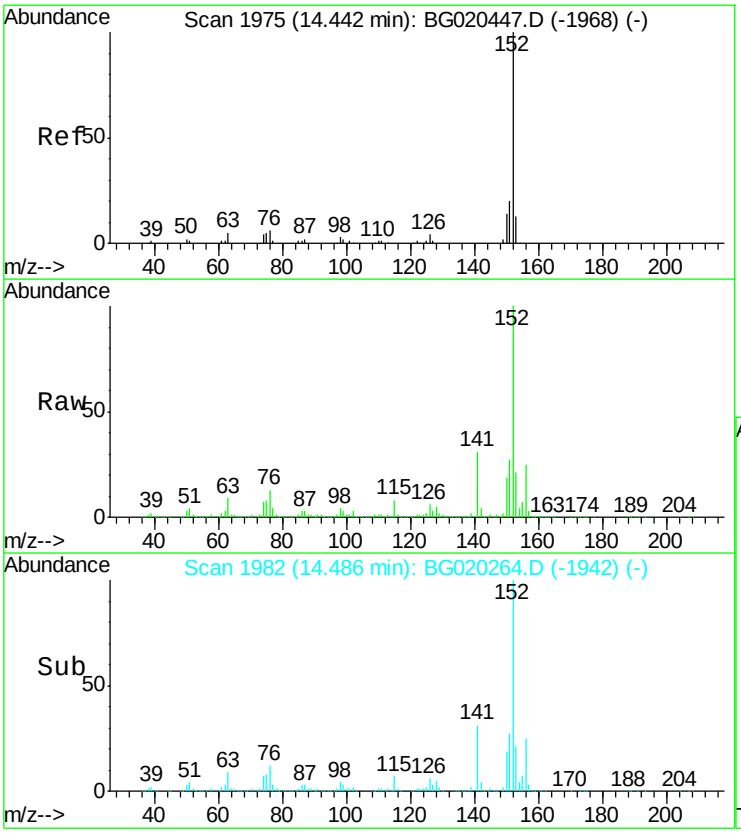
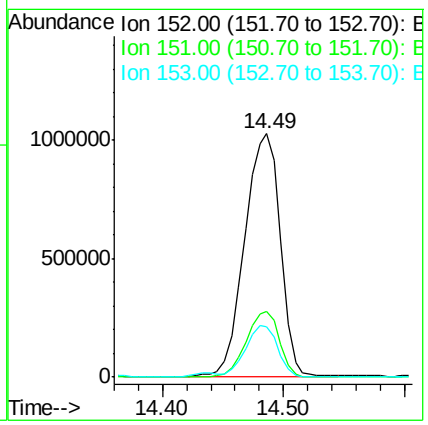


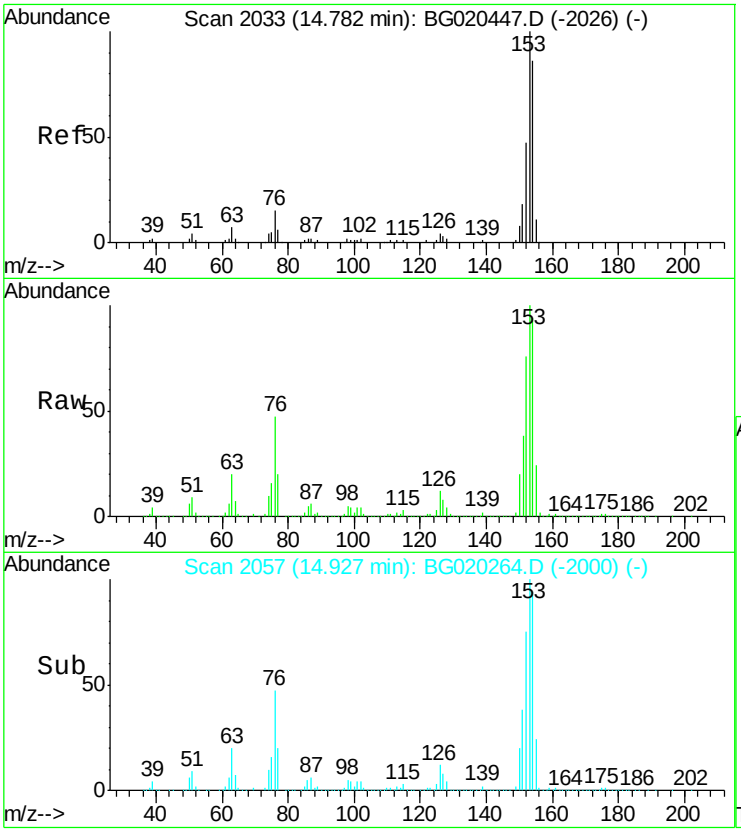


#48
Acenaphthylene
Concen: 164.93 ng/ul
RT: 14.49 min Scan# 1982
Delta R.T. 0.03 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:152 Resp: 2091209

Ion	Ratio	Lower	Upper
152	100		
151	26.8	16.4	24.6#
153	20.7	10.4	15.6#





#50
Acenaphthene
Concen: 1542.42 ng/ul m
RT: 14.93 min Scan# 2057
Delta R.T. 0.13 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:153 Resp:13158772

Ion	Ratio	Lower	Upper
153	100		
152	75.6	37.6	56.4#
154	94.4	67.9	101.9

Instrument :
BNA_G
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Manual Integrations APPROVED
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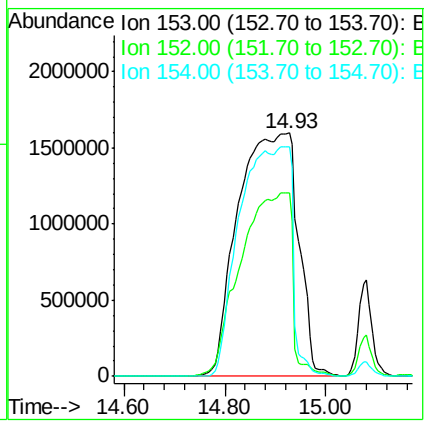
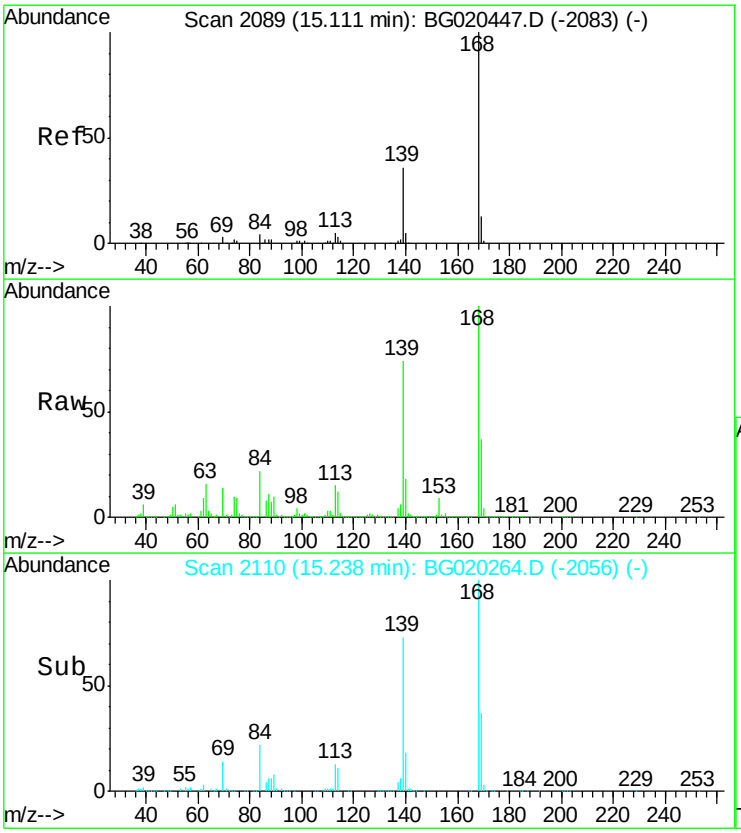
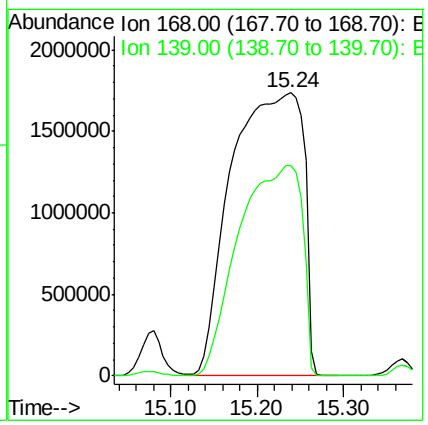


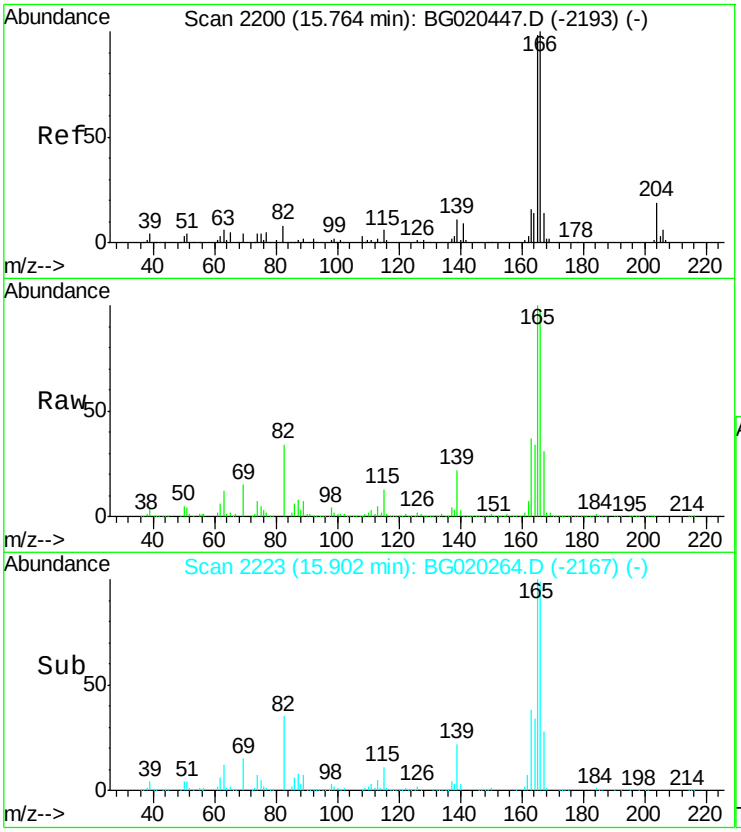


#54
Dibenzofuran
Concen: 786.76 ng/ul m
RT: 15.24 min Scan# 2110
Delta R.T. 0.11 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:168 Resp: 9984836

Ion	Ratio	Lower	Upper
168	100		
139	74.5	30.5	45.7#





#59
Fluorene
Concen: 1030.75 ng/ul m
RT: 15.90 min Scan# 2223
Delta R.T. 0.13 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:166 Resp:10504694

Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.4	122.0
167	31.1	11.2	16.8#

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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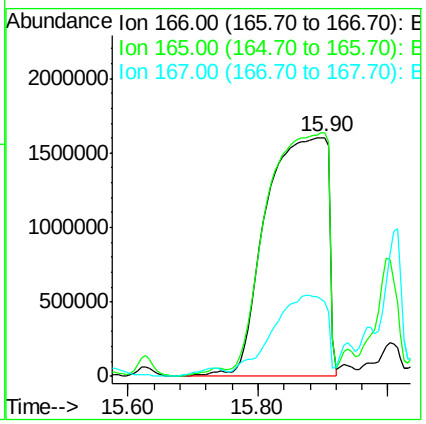
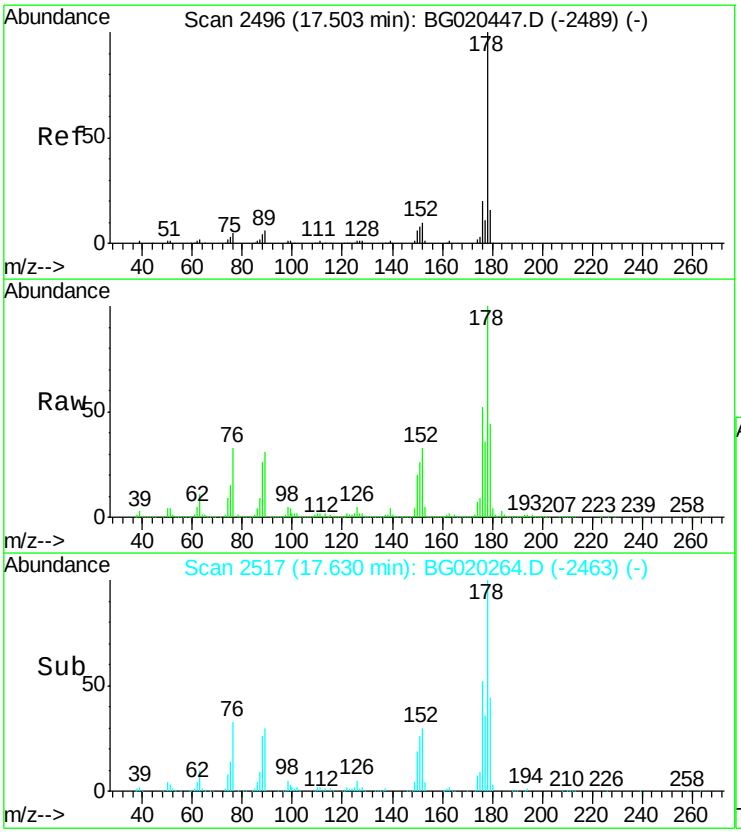
12/18/2015 6:20:26 PM

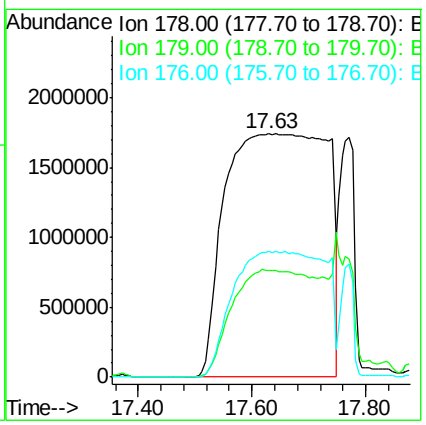


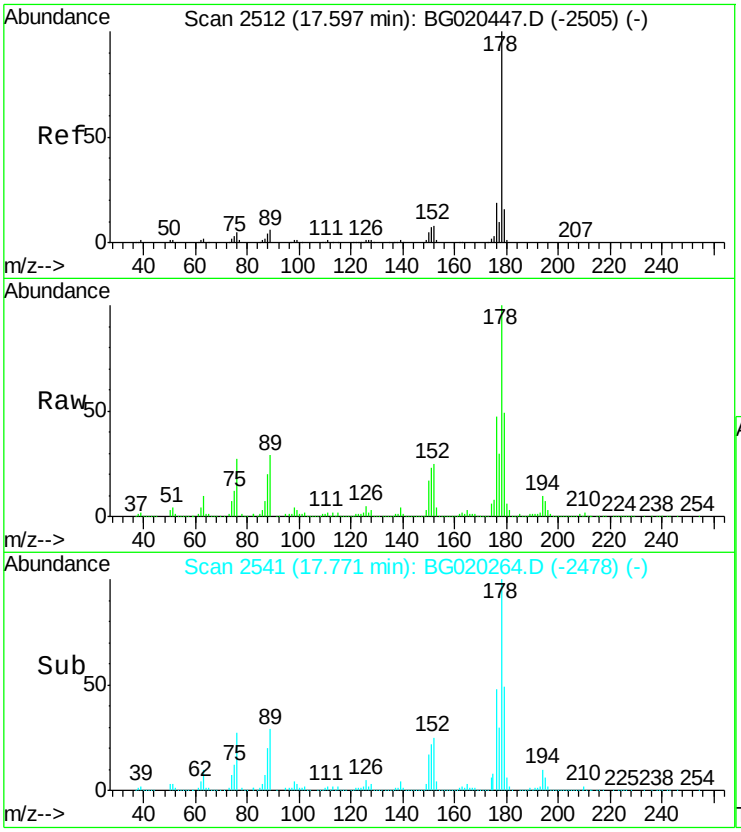


#70
Phenanthrene
Concen: 3457.52 ng/ul m
RT: 17.63 min Scan# 2517
Delta R.T. 0.11 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:178 Resp:21415664

Ion	Ratio	Lower	Upper
178	100		
179	44.0	12.9	19.3#
176	51.6	15.3	22.9#

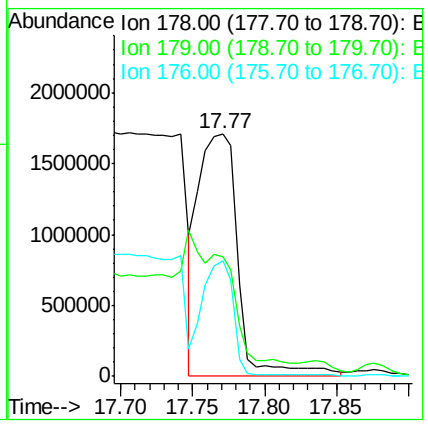




#72
Anthracene
Concen: 522.01 ng/ul m
RT: 17.77 min Scan# 2541
Delta R.T. 0.17 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:178 Resp: 3279429

Ion	Ratio	Lower	Upper
178	100		
179	49.4	12.3	18.5#
176	47.5	14.3	21.5#



Instrument :
BNA_G
ClientSampleId :
D9N44RE

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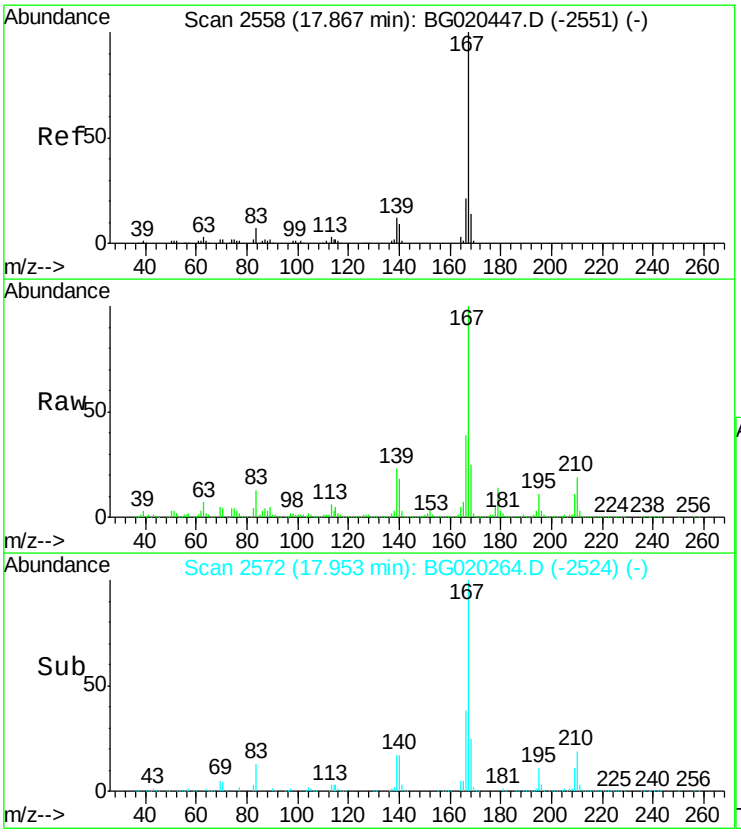
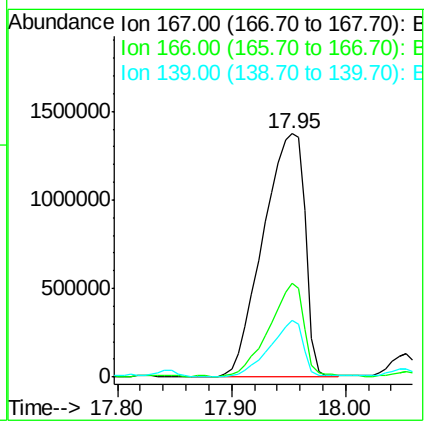
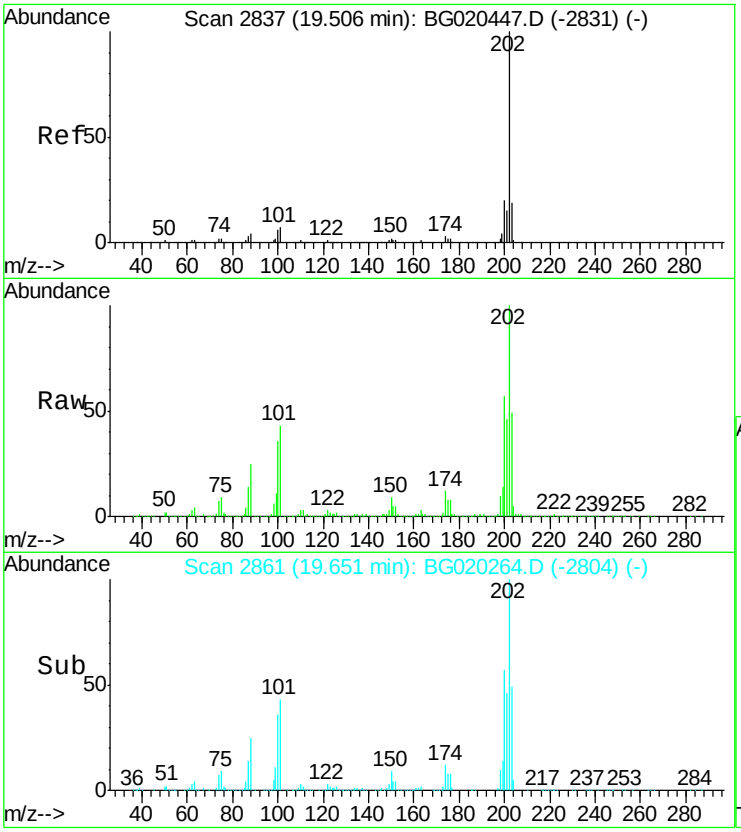


#75
Carbazole
Concen: 671.07 ng/ul m
RT: 17.95 min Scan# 2572
Delta R.T. 0.08 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:167 Resp: 3542375

Ion	Ratio	Lower	Upper
167	100		
166	38.8	17.0	25.6#
139	23.1	10.1	15.1#





#77
Fluoranthene
Concen: 2098.14 ng/ul m
RT: 19.65 min Scan# 2861
Delta R.T. 0.13 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:202 Resp:15188285

Ion	Ratio	Lower	Upper
202	100		
101	43.2	6.2	9.4#
100	35.6	5.1	7.7#

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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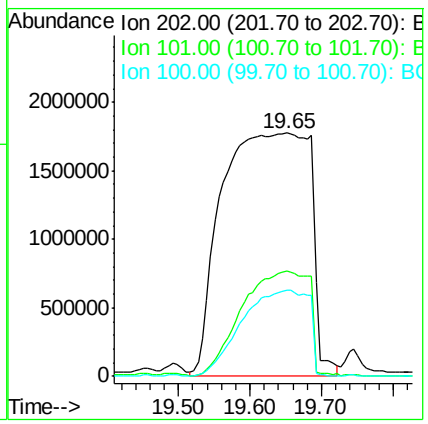
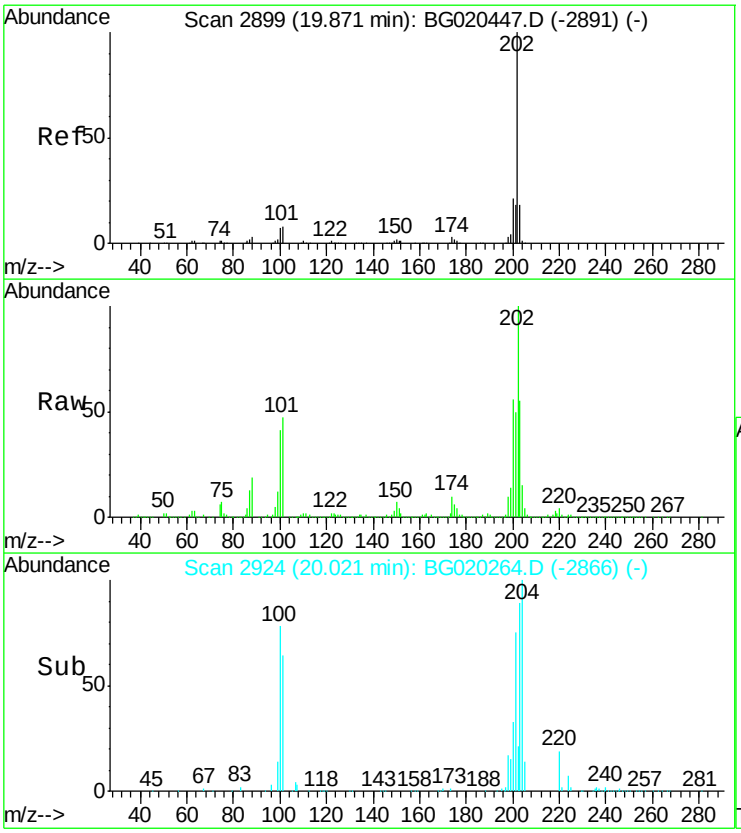
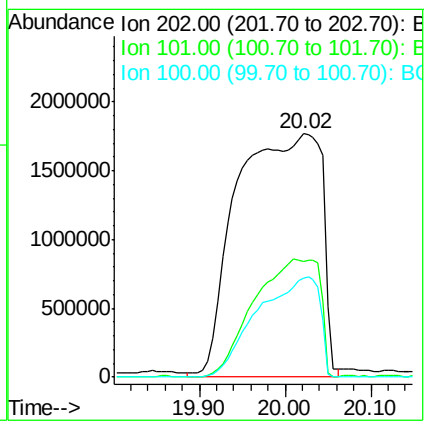


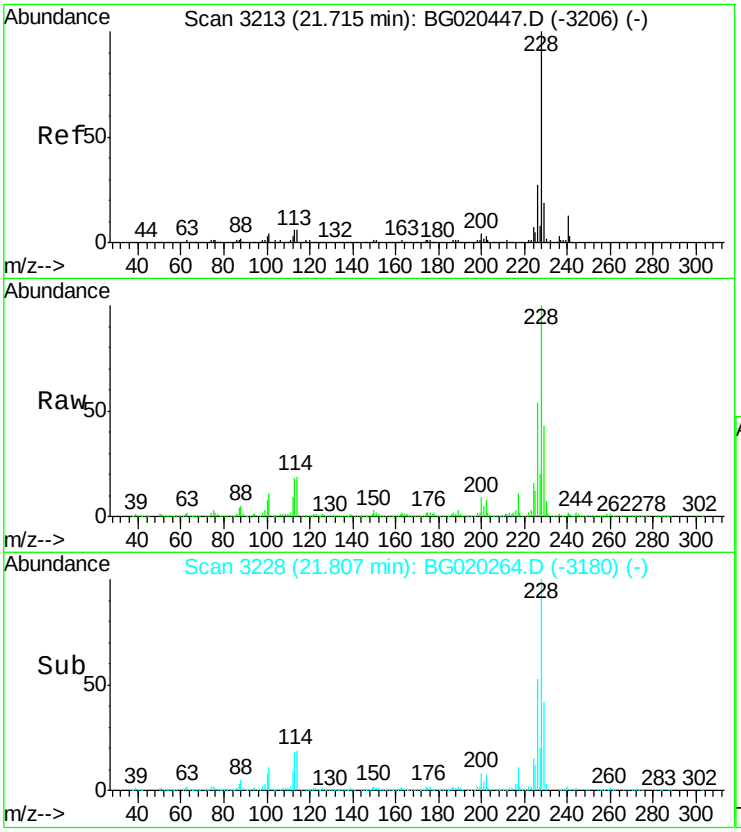


#80
Pyrene
Concen: 1004.05 ng/ul m
RT: 20.02 min Scan# 2924
Delta R.T. 0.14 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:202 Resp:12214950

Ion	Ratio	Lower	Upper
202	100		
101	47.4	7.0	10.4#
100	40.8	6.4	9.6#





#83
Benzo(a)anthracene
Concen: 558.41 ng/ul m
RT: 21.81 min Scan# 3228
Delta R.T. 0.08 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:228 Resp: 6549378

Ion	Ratio	Lower	Upper
228	100		
229	42.8	15.8	23.8#
226	53.6	21.8	32.6#

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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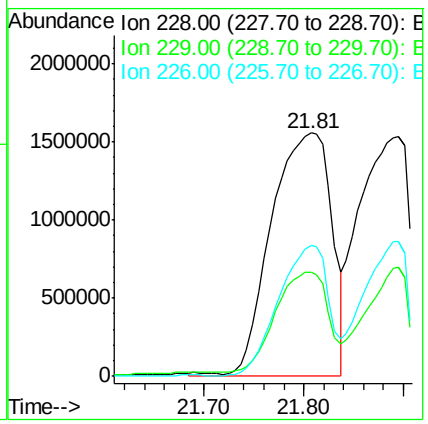
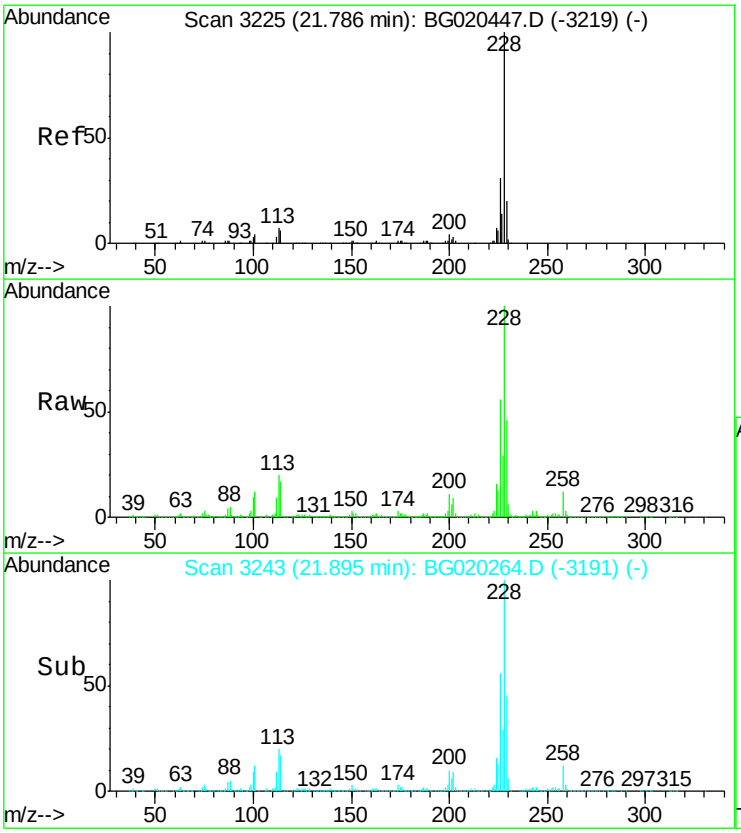
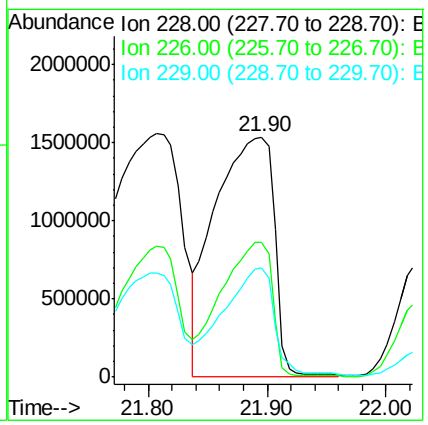


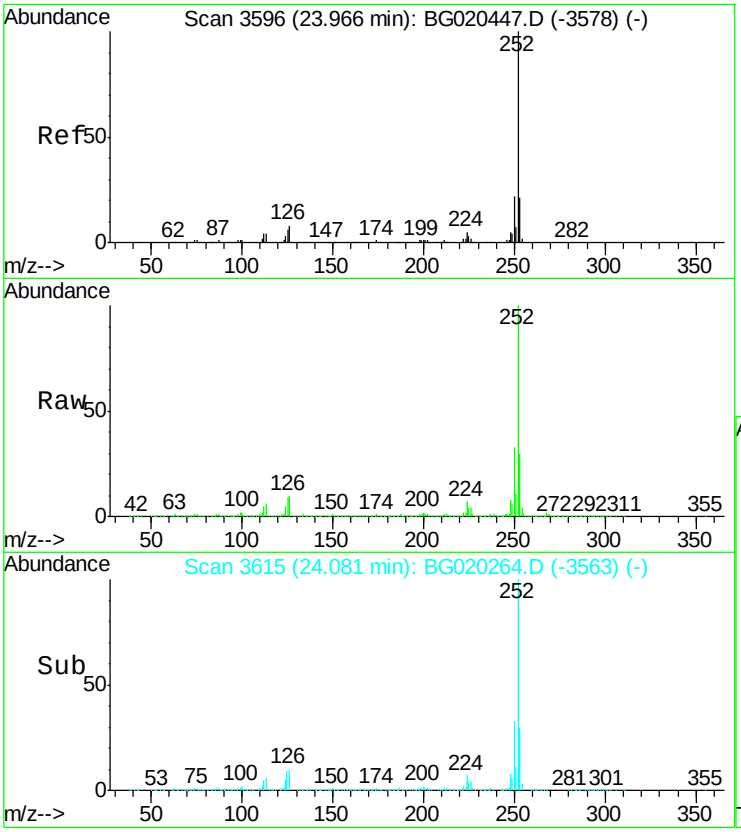


#85
Chrysene
Concen: 488.40 ng/ul m
RT: 21.90 min Scan# 3243
Delta R.T. 0.10 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:228 Resp: 5394928

Ion	Ratio	Lower	Upper
228	100		
226	56.4	23.9	35.9#
229	45.7	15.6	23.4#





#88
Benzo(b)fluoranthene
Concen: 441.42 ng/ul m
RT: 24.08 min Scan# 3615
Delta R.T. 0.10 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:252 Resp: 4950350

Ion	Ratio	Lower	Upper
252	100		
253	29.9	16.7	25.1#
125	9.4	6.2	9.2#

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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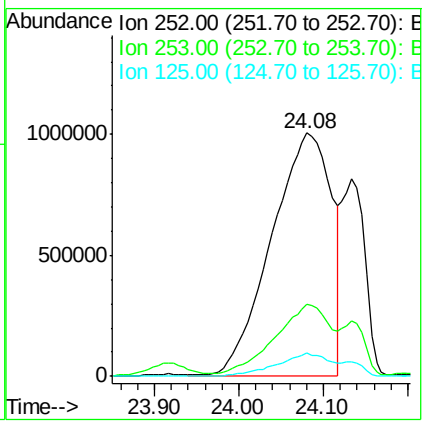
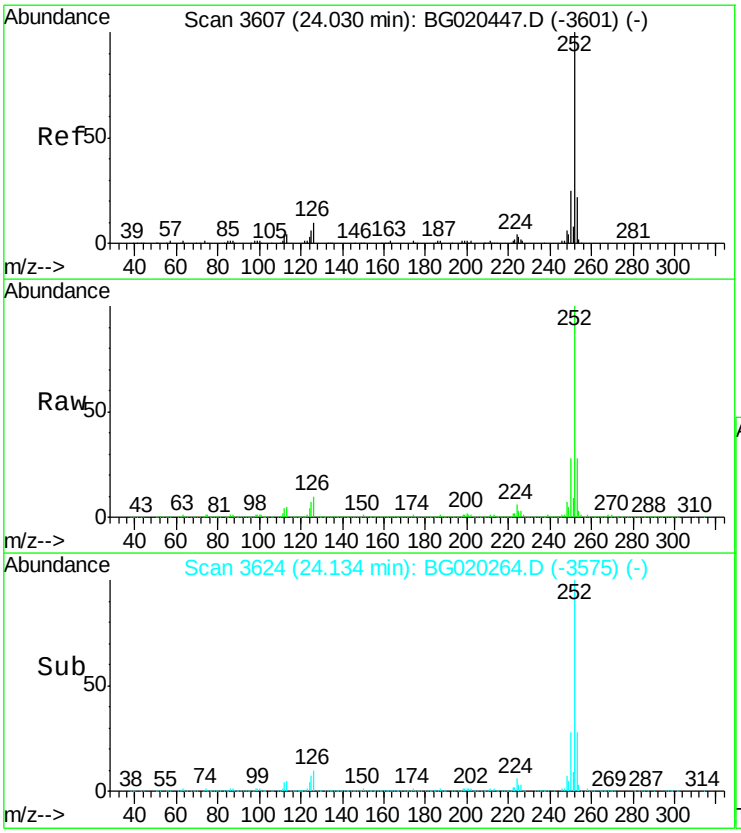
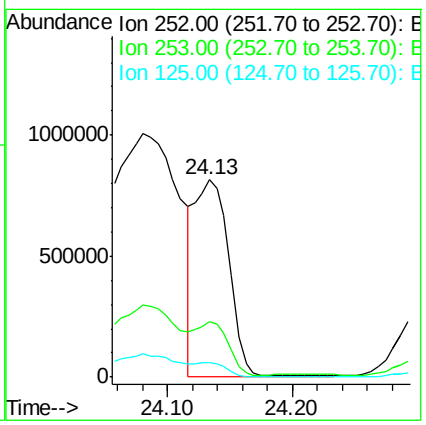


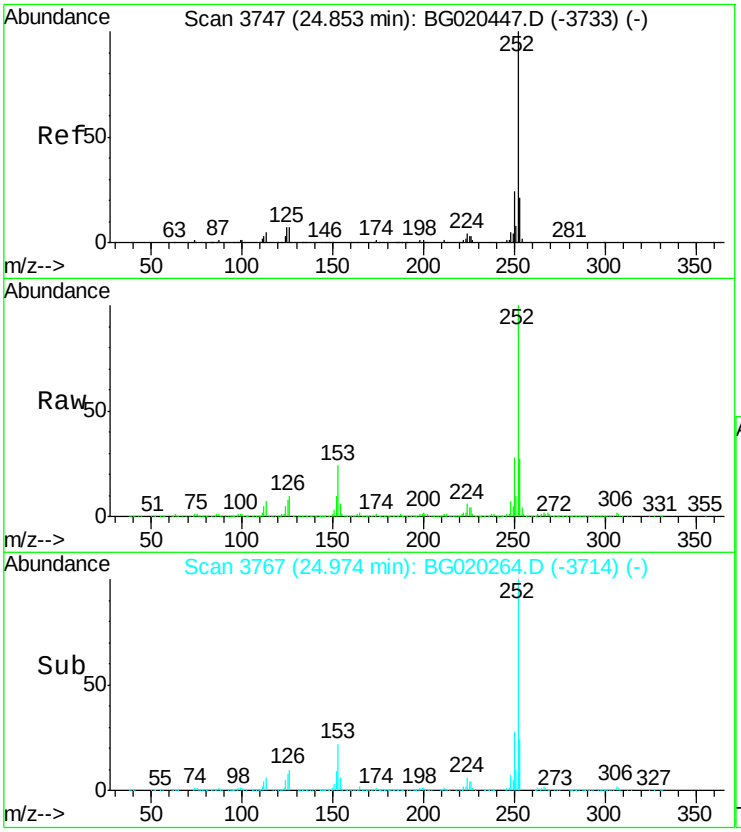


#89
Benzo(k)fluoranthene
Concen: 146.98 ng/ul m
RT: 24.13 min Scan# 3624
Delta R.T. 0.09 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:252 Resp: 1581801

Ion	Ratio	Lower	Upper
252	100		
253	28.3	17.9	26.9#
125	7.3	5.8	8.6





#91
Benzo(a)pyrene
Concen: 280.94 ng/ul m
RT: 24.97 min Scan# 3767
Delta R.T. 0.11 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:252 Resp: 2986558

Ion	Ratio	Lower	Upper
252	100		
253	26.6	17.0	25.4#
125	8.3	6.2	9.4

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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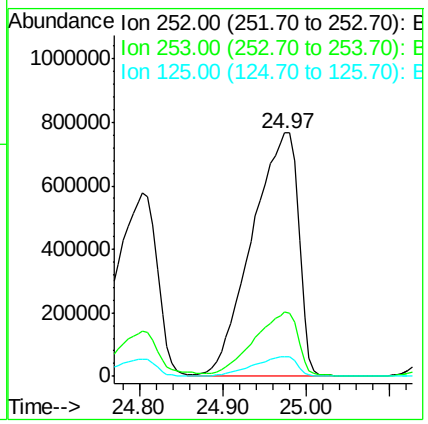
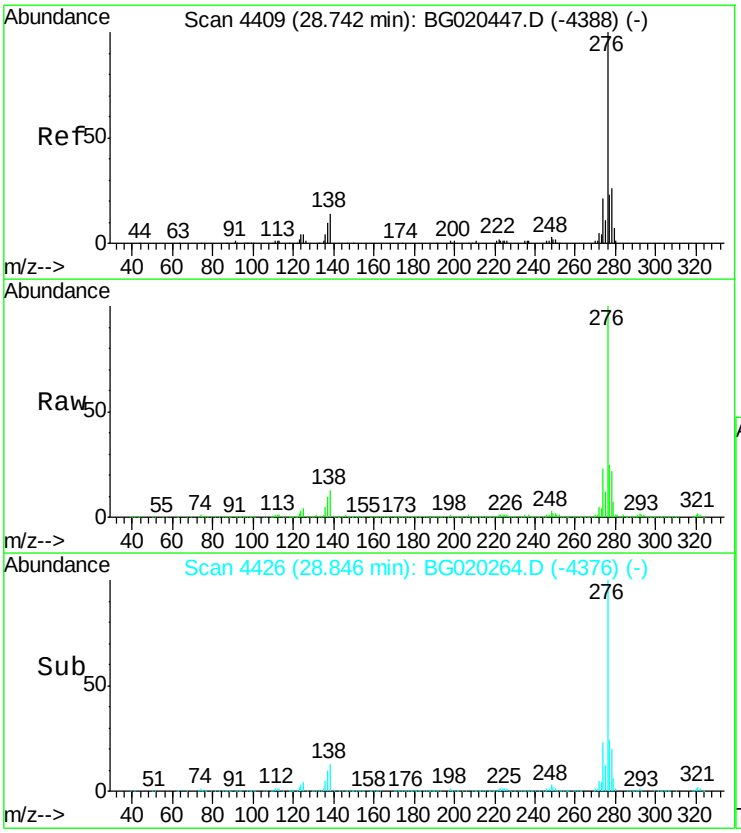
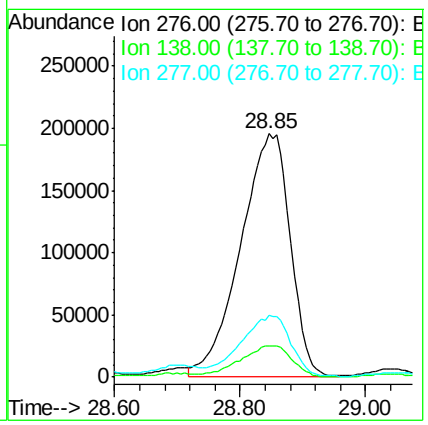


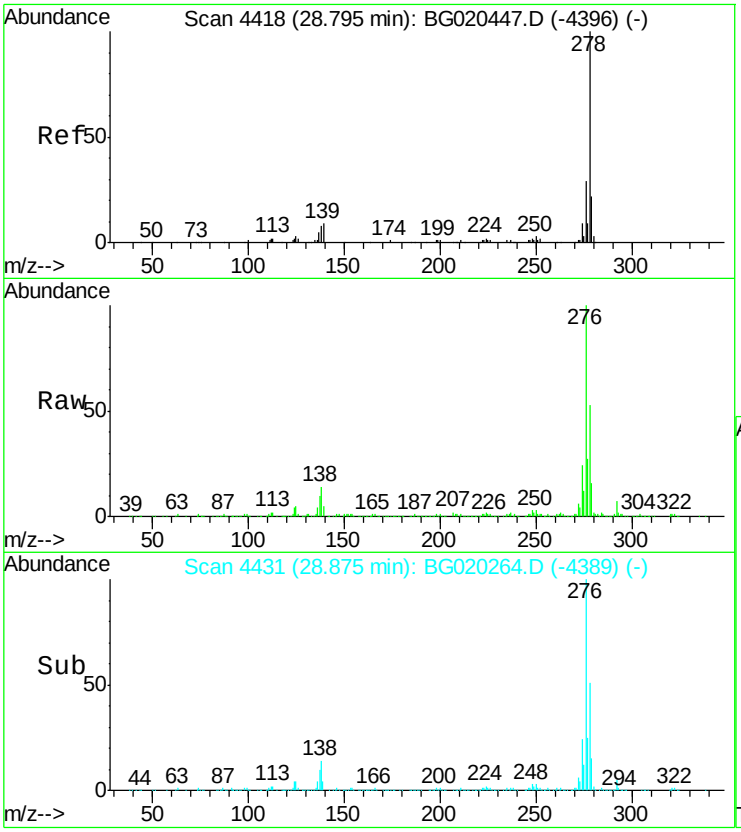


#92
Indeno(1,2,3-cd)pyrene
Concen: 85.36 ng/ul m
RT: 28.85 min Scan# 4426
Delta R.T. 0.09 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:276 Resp: 1080671

Ion	Ratio	Lower	Upper
276	100		
138	12.8	11.4	17.0
277	25.4	17.4	26.0





#93
Dibenzo(a,h)anthracene
Concen: 31.48 ng/ul m
RT: 28.88 min Scan# 4431
Delta R.T. 0.04 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:278 Resp: 330774

Ion	Ratio	Lower	Upper
278	100		
139	9.4	9.4	14.2#
279	30.3	19.4	29.0#

Instrument :
BNA_G
ClientSampleId :
D9N44RE

Manual Integrations APPROVED
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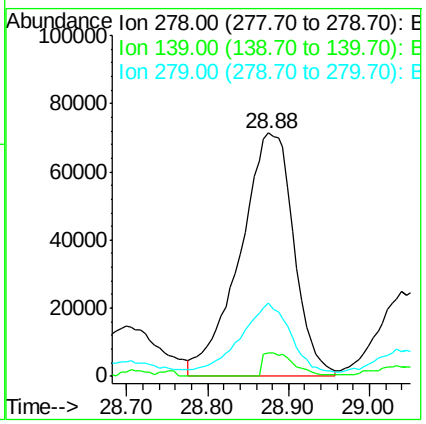

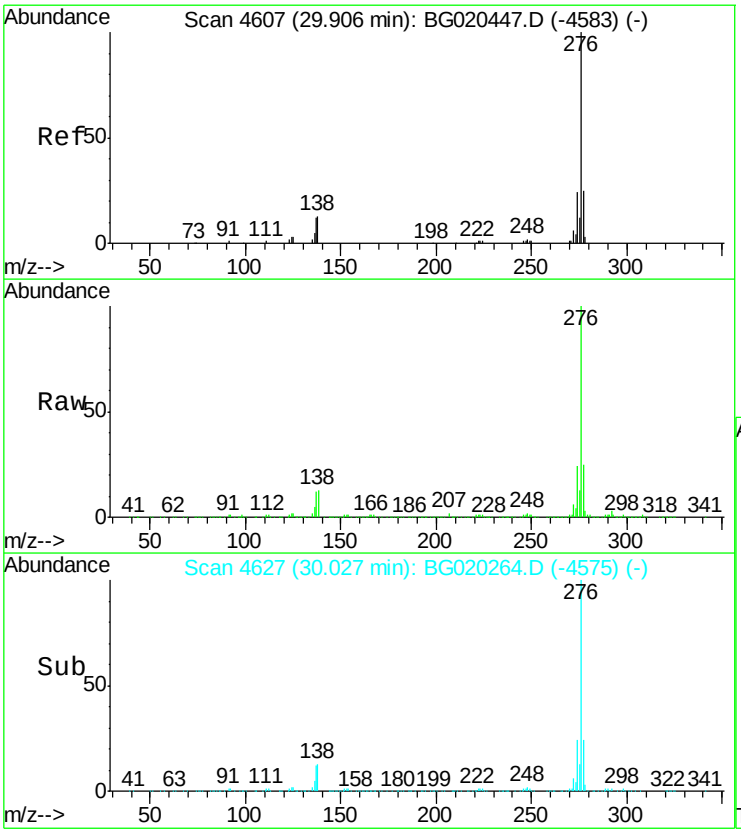

#94
Benzo(g,h,i)perylene
Concen: 79.99 ng/ul m
RT: 30.03 min Scan# 4627
Delta R.T. 0.10 min
Lab File: BG020264.D
Acq: 18 Dec 2015 3:21

Tgt Ion:276 Resp: 830158

Ion	Ratio	Lower	Upper
276	100		
138	12.7	10.8	16.2
277	24.5	19.9	29.9