

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
 Data File : BG020086.D
 Acq On : 10 Dec 2015 21:51
 Operator : UM/SJ
 Sample : G4683-13
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S1-14.5

Manual Integrations
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Quant Time: Dec 11 14:11:24 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 02 18:50:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	20888	20.00	ng	-0.03
21) Naphthalene-d8	10.92	136	86736	20.00	ng	-0.03
38) Acenaphthene-d10	14.74	164	59703	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	142017	20.00	ng	-0.03
75) Chrysene-d12	21.75	240	175243	20.00	ng	-0.04
86) Perylene-d12	25.04	264	166916	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	181946	157.43	ng	0.00
7) Phenol-d6	7.26	99	270688	155.13	ng	-0.01
23) Nitrobenzene-d5	9.28	82	179956	105.89	ng	-0.02
41) 2,4,6-Tribromophenol	16.22	330	136611	149.55	ng	-0.02
44) 2-Fluorobiphenyl	13.36	172	385934	88.26	ng	-0.03
78) Terphenyl-d14	20.08	244	612404	85.24	ng	-0.03
Target Compounds						Qvalue
10) Phenol	7.29	94	3973	2.16	ng	# 48
49) Dimethylphthalate	14.19	163	164815	30.69	ng	97
51) Acenaphthene	14.80	154	12331	3.16	ng	95
54) Dibenzofuran	15.13	168	14261	2.46	ng	92
57) Fluorene	15.78	166	21661	4.17	ng	93
70) Phenanthrene	17.52	178	455675	56.71	ng	98
71) Anthracene	17.62	178	85757	10.48	ng	95
72) Carbazole	17.88	167	39129	5.43	ng	97
74) Fluoranthene	19.53	202	612378	59.58	ng	94
77) Pyrene	19.89	202	548894	53.24	ng	96
80) Benzo(a)anthracene	21.74	228	282249	26.31	ng	98
82) Chrysene	21.81	228	251117	24.66	ng	97
85) Indeno(1,2,3-cd)pyrene	28.77	276	140285	12.50	ng	# 100
87) Benzo(b)fluoranthene	24.00	252	303370m	28.68	ng	
88) Benzo(k)fluoranthene	24.06	252	106500m	10.17	ng	
89) Benzo(a)pyrene	24.88	252	230437m	22.94	ng	
90) Dibenzo(a,h)anthracene	28.83	278	39381m	3.97	ng	
91) Benzo(g,h,i)perylene	29.94	276	132758	13.63	ng	# 93

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

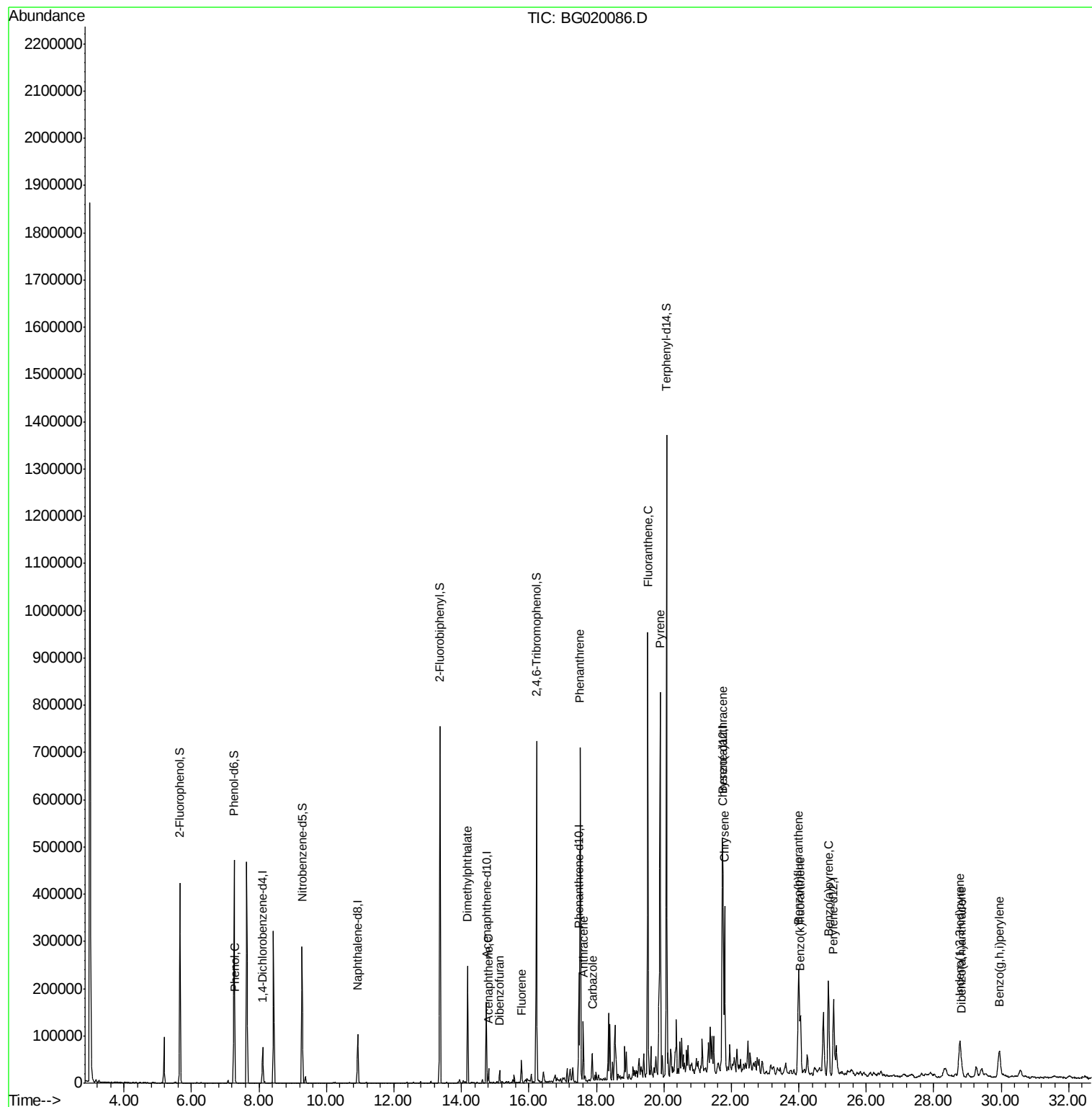
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121115\
Data File : BG020086.D
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ALS Vial : 19 Sample Multiplier: 1

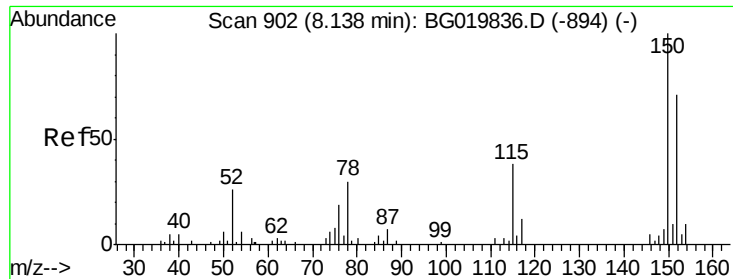
Instrument :
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S1-14.5

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Quant Time: Dec 11 14:11:24 2015
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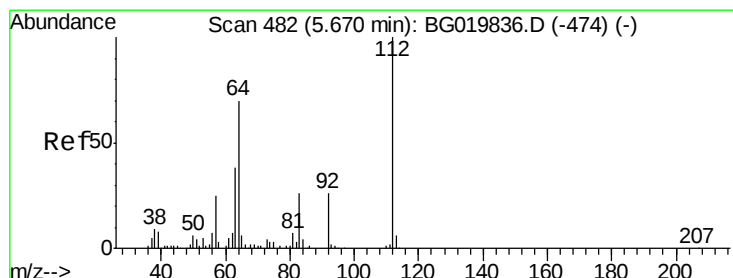
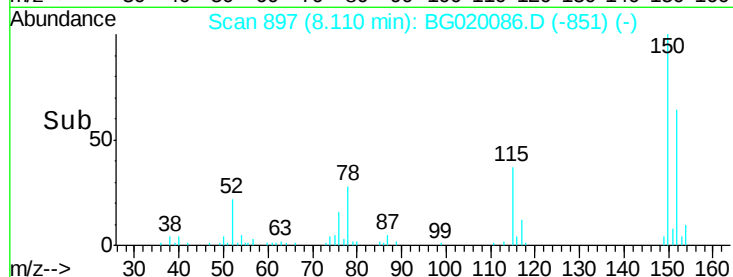
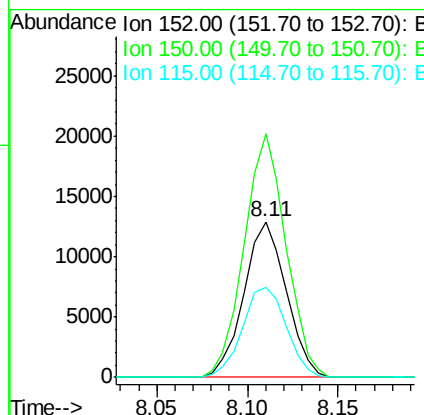
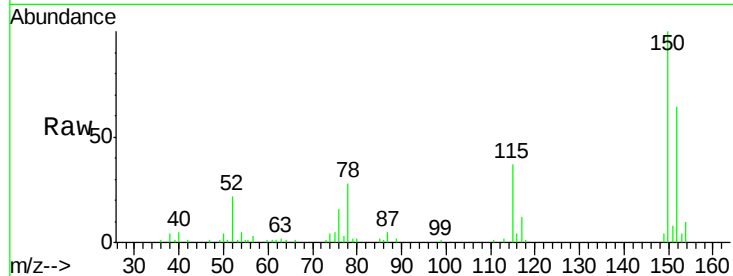
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 8.11 min Scan# 897
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Instrument :
 BNA_G
 ClientSampleId :
 S1-14.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	115.0	172.4
115	57.9	43.9	65.9

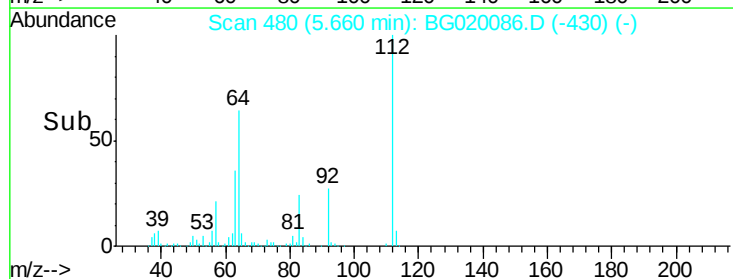
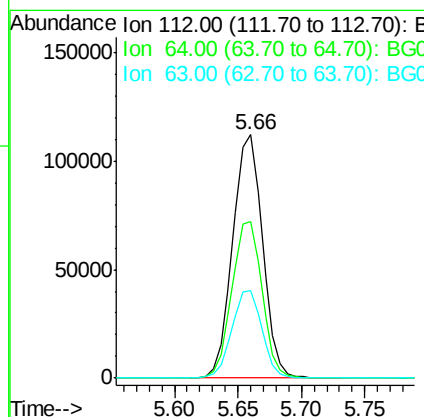
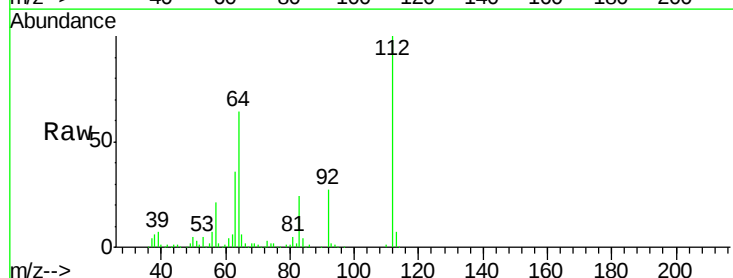
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#5
 2-Fluorophenol
 Concen: 157.43 ng
 RT: 5.66 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.5	43.7	65.5
63	35.7	24.0	36.0





#7

Phenol-d6

Concen: 155.13 ng

RT: 7.26 min Scan# 753

Delta R.T. -0.01 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_G

ClientSampleId :

S1-14.5

Tot Ion: 99 Resp: 270688

Ion Ratio Lower Upper

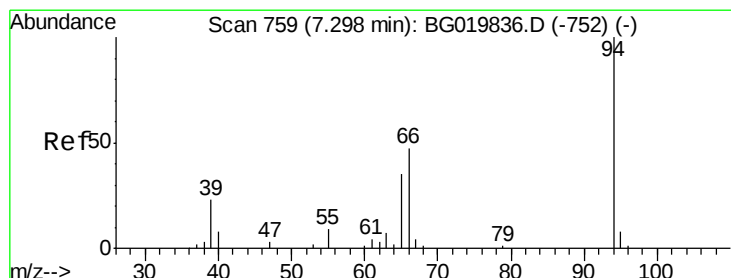
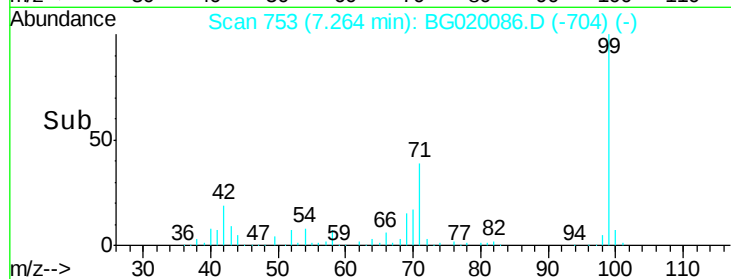
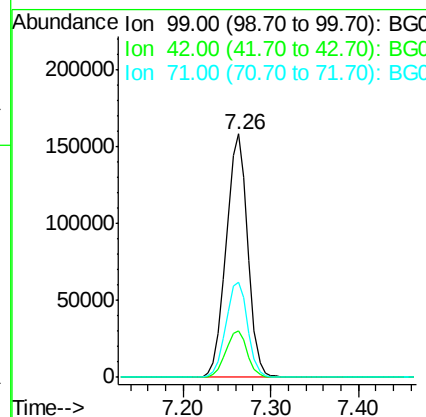
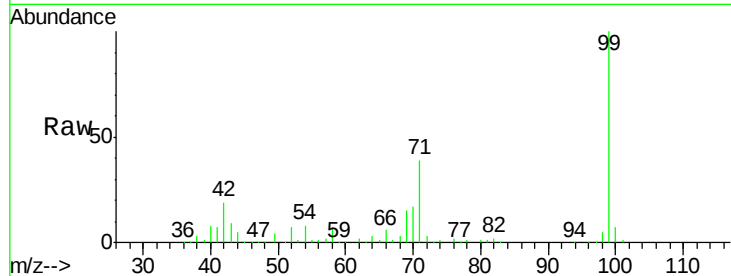
99 100

42 19.2 11.5 17.3#

71 39.2 22.6 34.0#

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#10

Phenol

Concen: 2.16 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.01 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

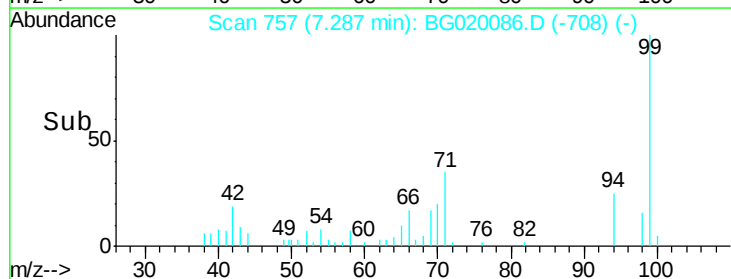
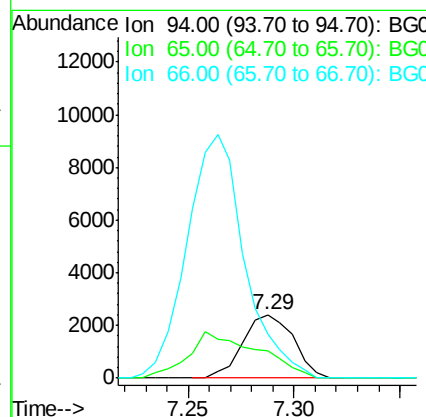
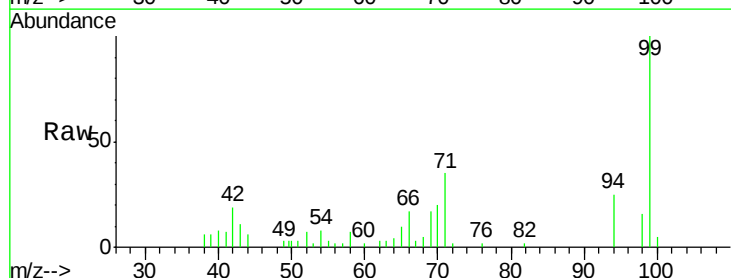
Tgt Ion: 94 Resp: 3973

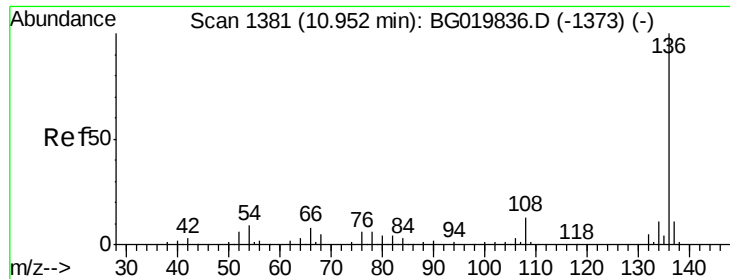
Ion Ratio Lower Upper

94 100

65 42.3 5.4 45.4

66 68.6 11.8 51.8#





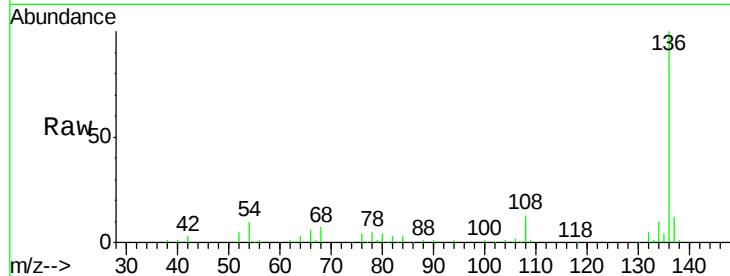
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.92 min Scan# 1376
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampleId :
S1-14.5

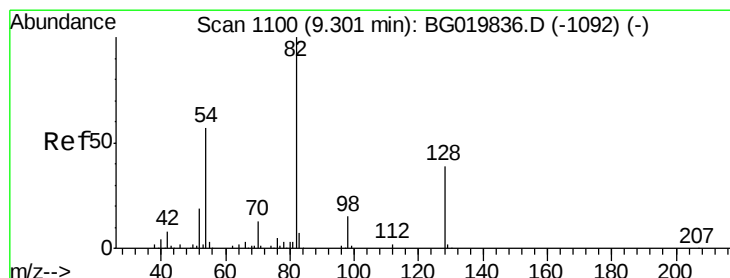
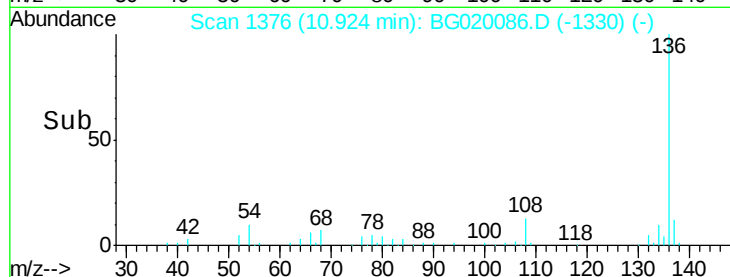
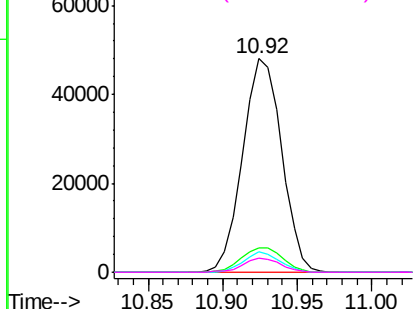
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.6	8.6	12.8	
54	9.7	5.4	8.2#	
68	6.6	5.3	7.9	

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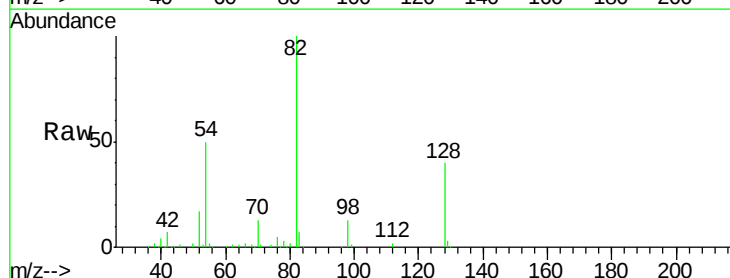


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BG
Ion 68.00 (67.70 to 68.70): BG

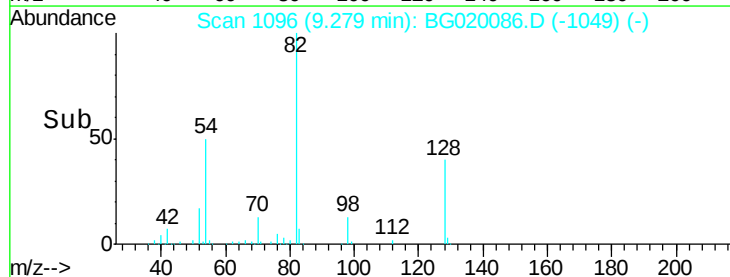
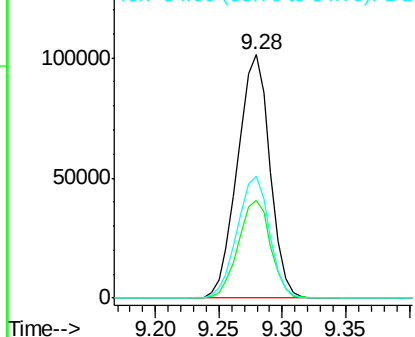


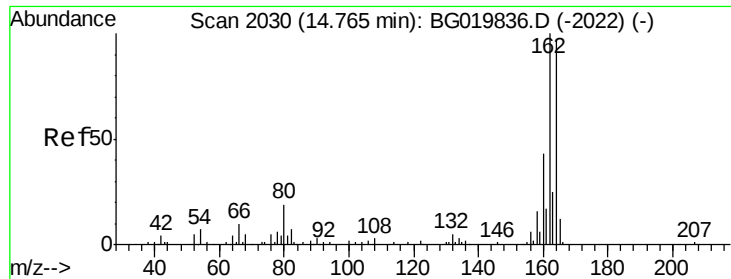
#23
Nitrobenzene-d5
Concen: 105.89 ng
RT: 9.28 min Scan# 1096
Delta R.T. -0.02 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.0	36.7	55.1	
54	50.0	33.8	50.8	



Abundance Ion 82.00 (81.70 to 82.70): BG
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BG





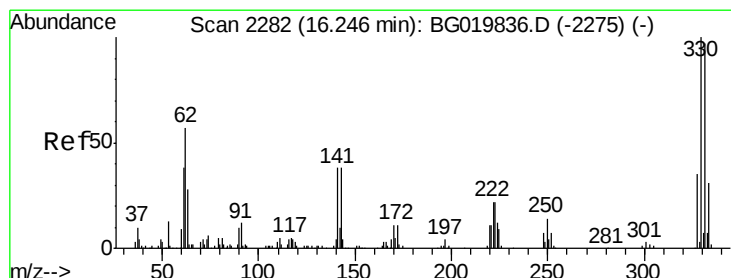
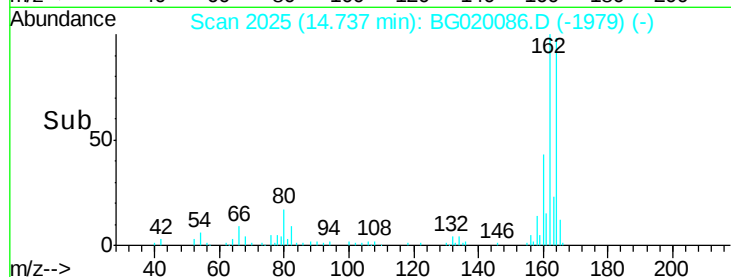
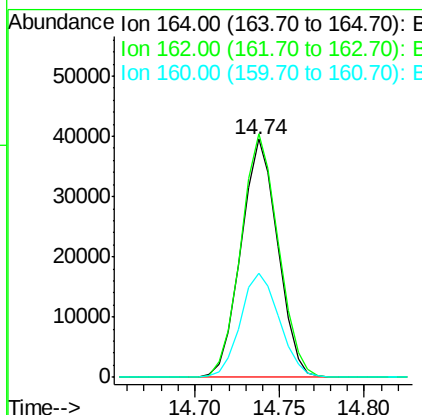
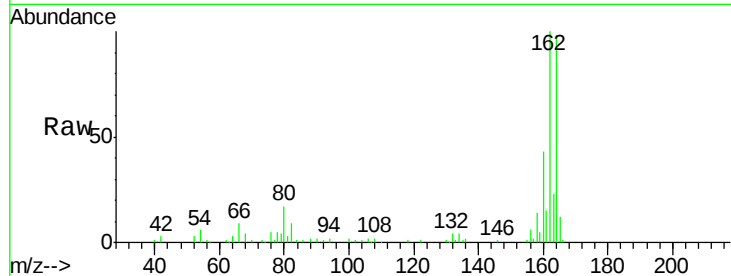
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.74 min Scan# 2025
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampled :
S1-14.5

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.2	59703	78.8	118.2
160	43.8		36.4	54.6

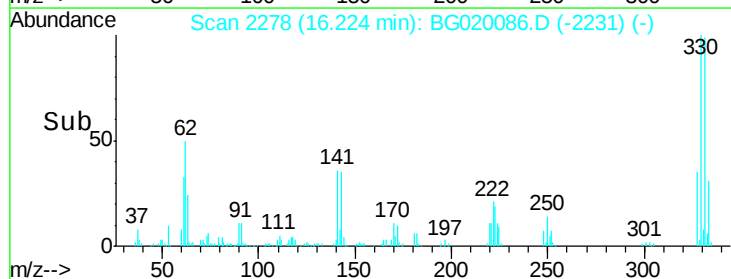
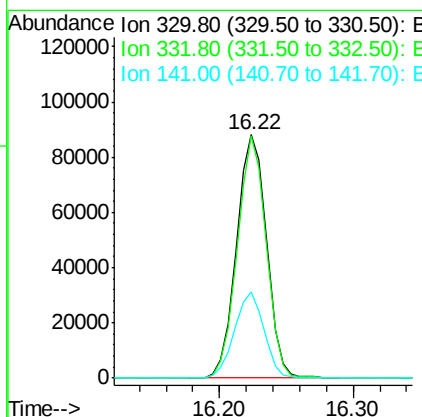
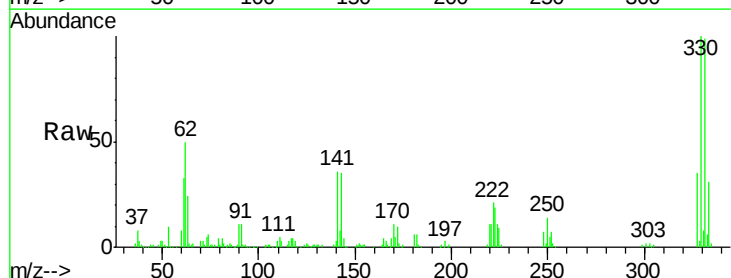
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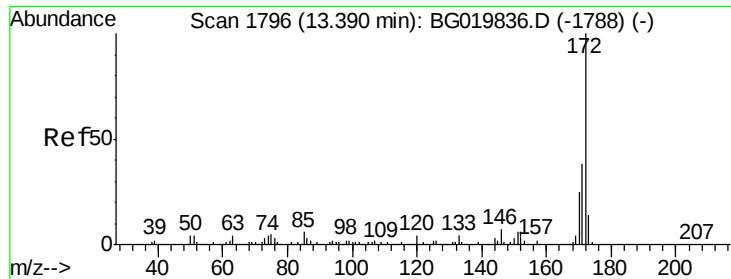
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#41
2,4,6-Tribromophenol
Concen: 149.55 ng
RT: 16.22 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	136611		
332	95.8		78.1	117.1
141	35.0		28.2	42.2





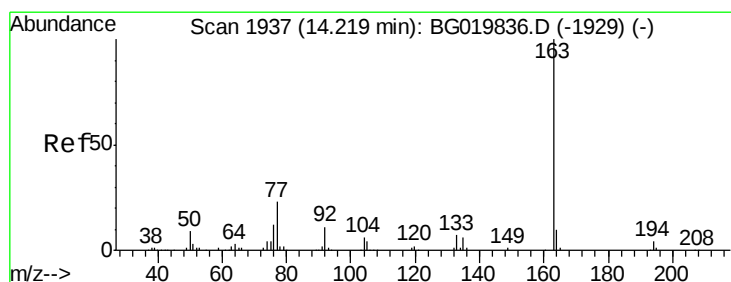
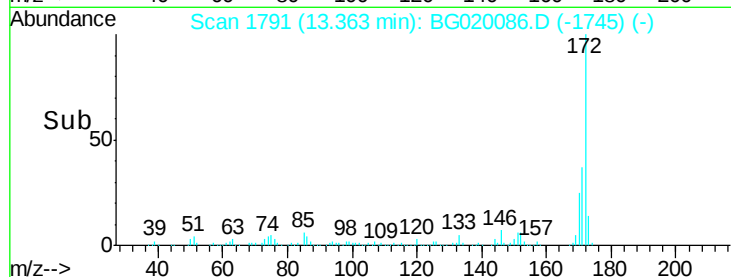
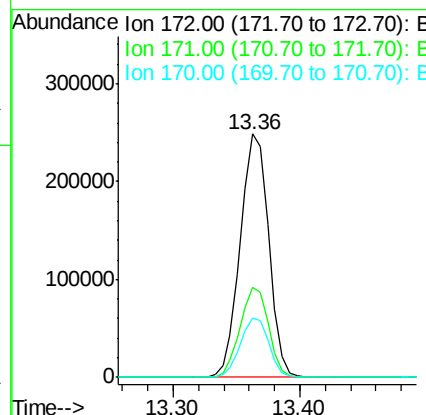
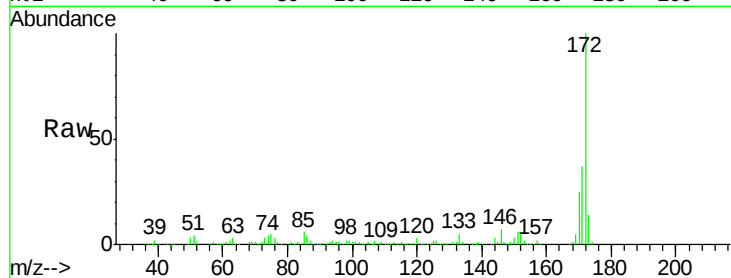
#44
2-Fluorobiphenyl
Concen: 88.26 ng
RT: 13.36 min Scan# 1791
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampleId :
S1-14.5

Tot Ion	Ratio	Resp	Lower	Upper
172	100	385934		
171	37.0	29.0	43.6	
170	24.5	19.9	29.9	

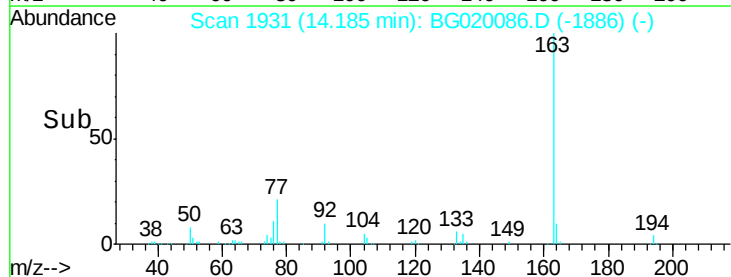
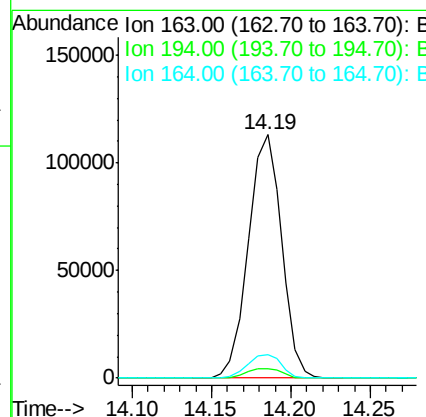
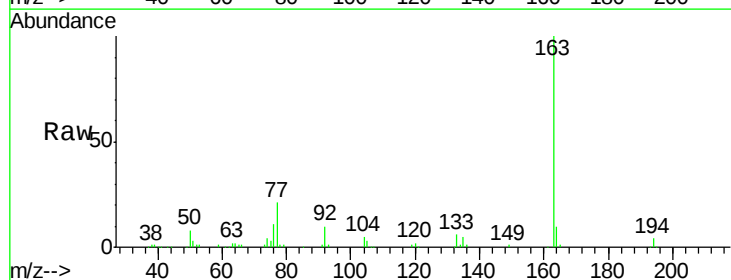
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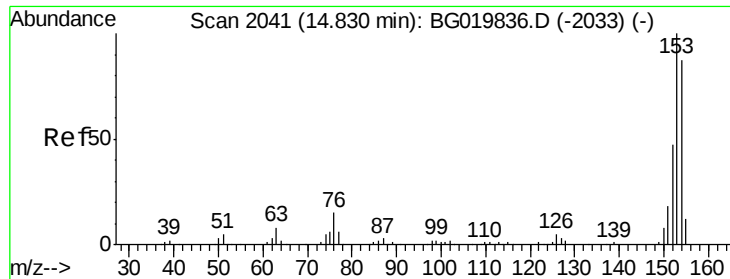
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#49
Dimethylphthalate
Concen: 30.69 ng
RT: 14.19 min Scan# 1931
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	164815		
194	3.8	3.1	4.7	
164	9.5	8.8	13.2	





#51

Acenaphthene

Concen: 3.16 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020086.D

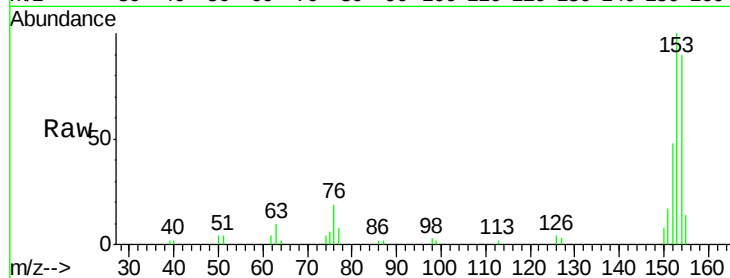
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Instrument :

BNA_G

ClientSampled :

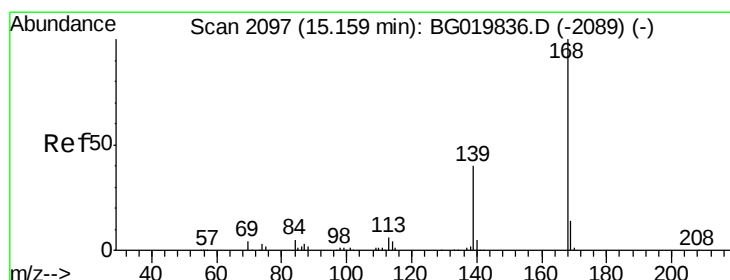
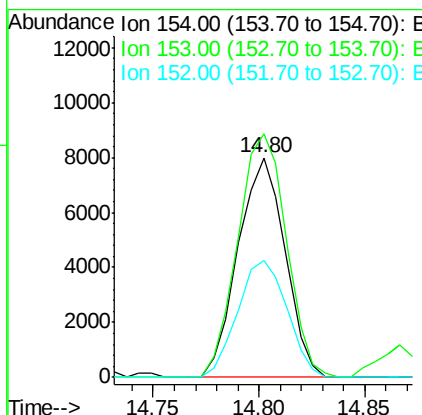
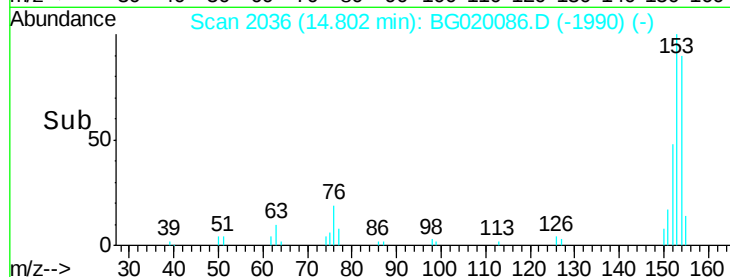
S1-14.5



Tot Ion:	154	Resp:	12331
Ion Ratio	Lower	Upper	
154	100		
153	111.0	92.9	139.3
152	53.5	45.8	68.8

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#54

Dibenzofuran

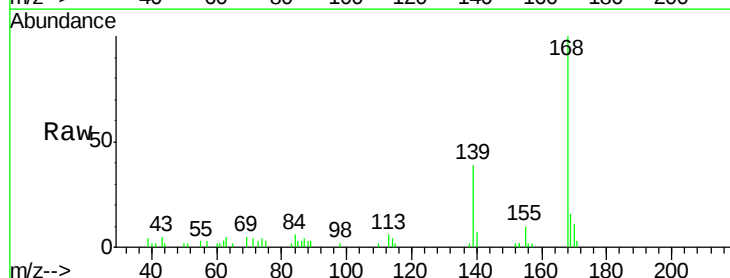
Concen: 2.46 ng

RT: 15.13 min Scan# 2092

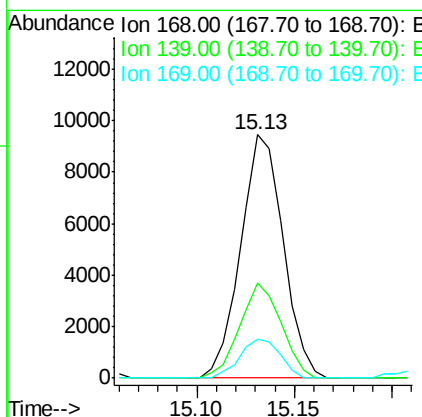
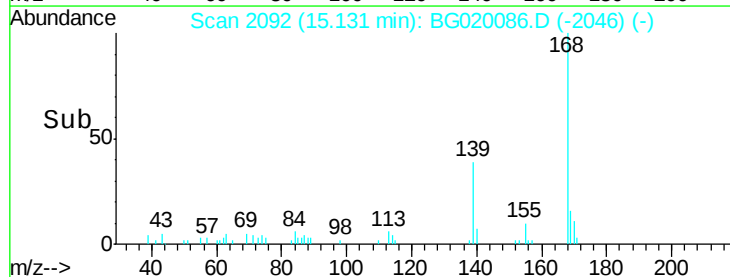
Delta R.T. -0.03 min

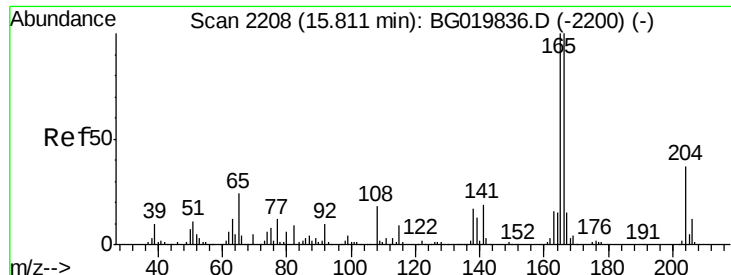
Lab File: BG020086.D

Acq: 10 Dec 2015 21:51



Tgt Ion:	168	Resp:	14261
Ion Ratio	Lower	Upper	
168	100		
139	39.3	27.4	41.0
169	16.1	11.0	16.4





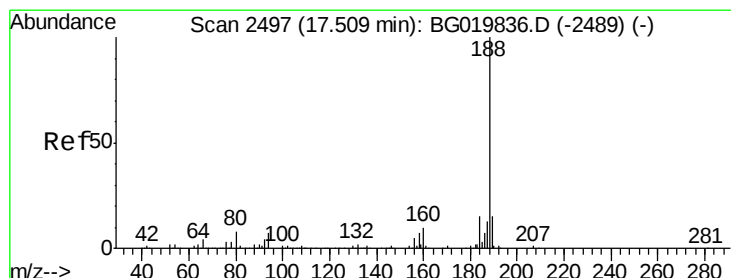
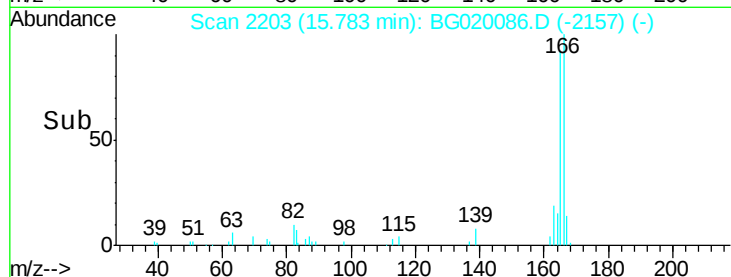
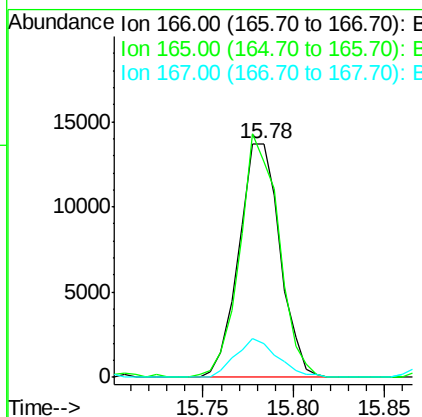
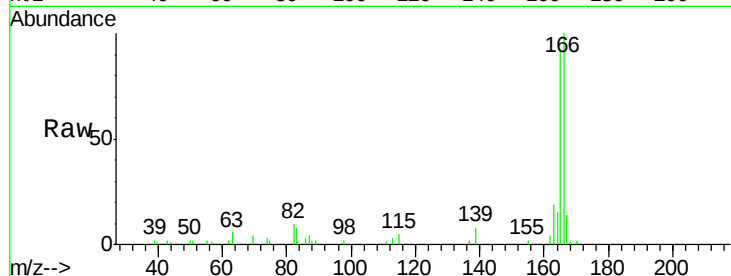
#57
Fluorene
 Concen: 4.17 ng
 RT: 15.78 min Scan# 2203
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Instrument :
 BNA_G
 ClientSampleId :
 S1-14.5

Tot Ion	Ratio	Resp	Lower	Upper
166	100	21661		
165	92.0	80.0	120.0	
167	14.3	11.1	16.7	

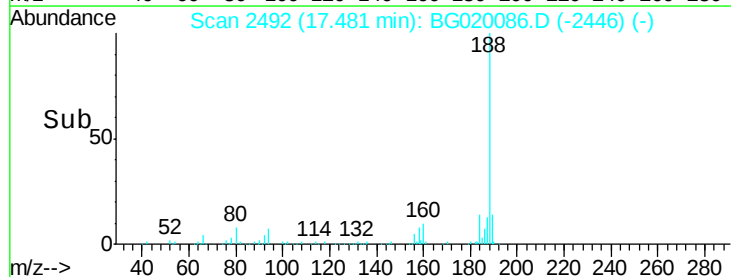
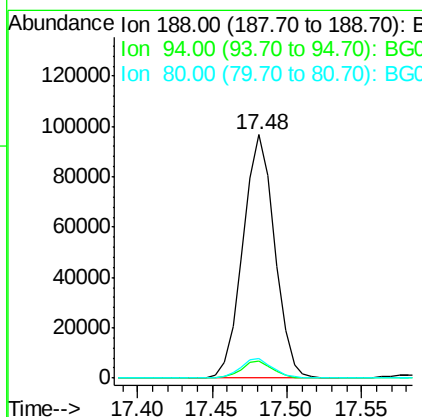
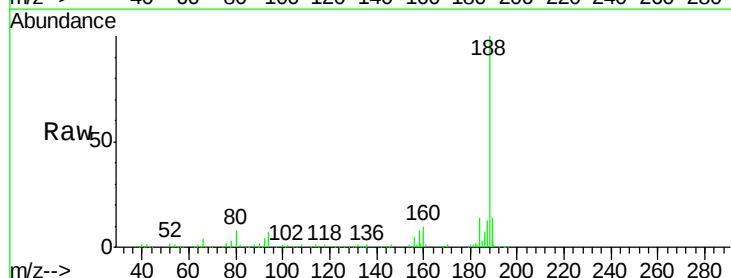
Manual Integrations
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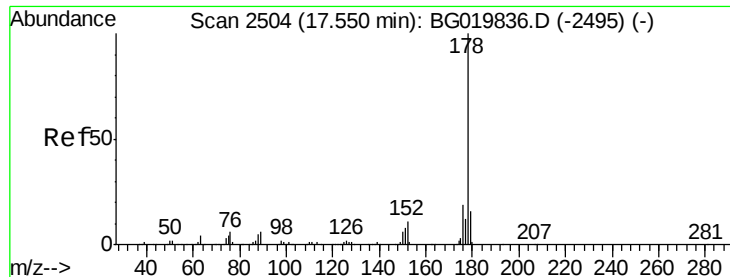
MMdadoda
 12/11/2015 6:02:34 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.48 min Scan# 2492
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	142017		
94	6.8	7.7	11.5#	
80	7.9	7.8	11.8	





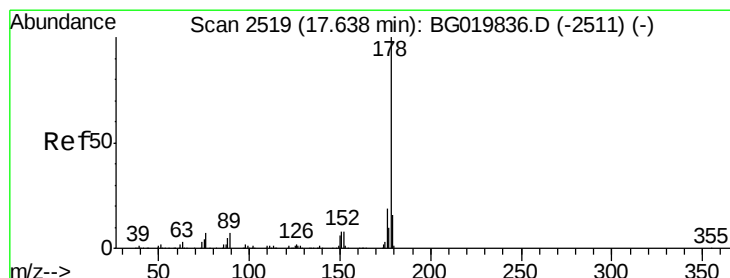
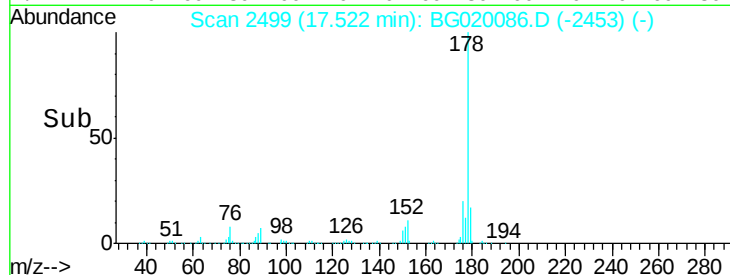
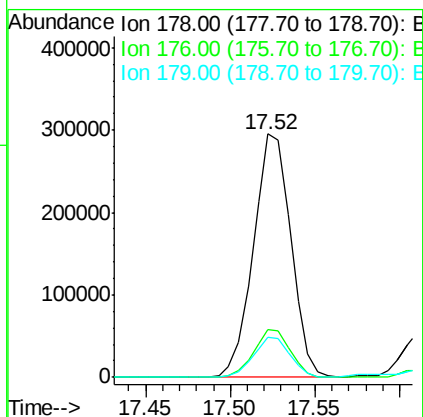
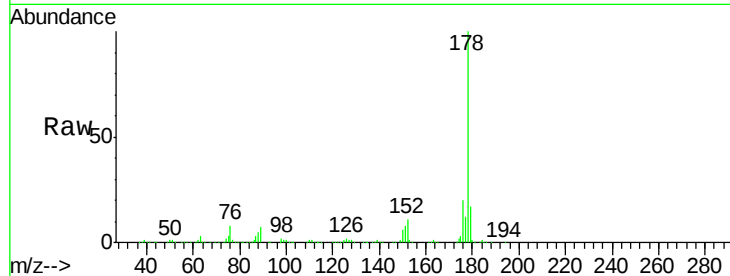
#70
Phenanthrene
Concen: 56.71 ng
RT: 17.52 min Scan# 2499
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampleId :
S1-14.5

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.7	25.1
179	16.6	13.9	20.9

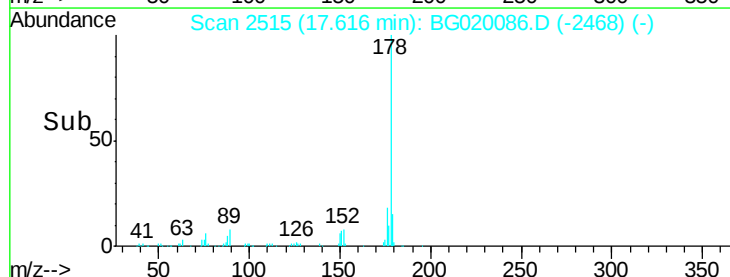
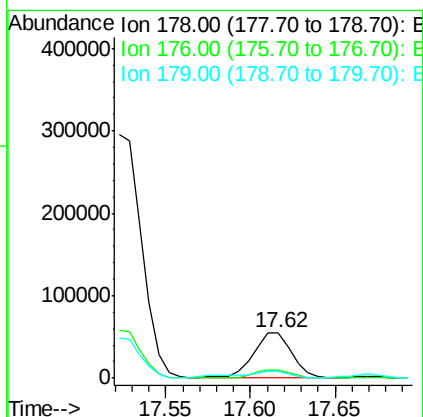
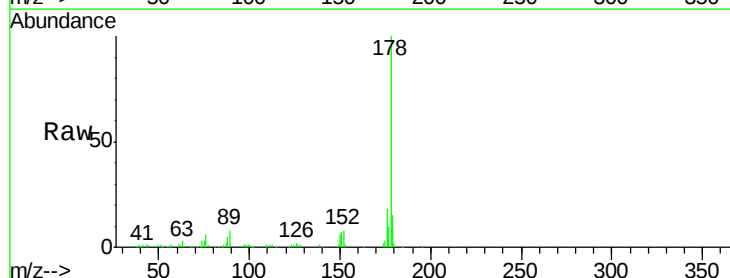
Manual Integrations
APPROVED

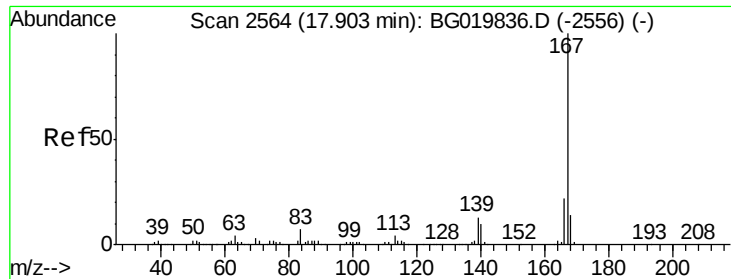
MMdadoda
12/11/2015 6:02:34 PM



#71
Anthracene
Concen: 10.48 ng
RT: 17.62 min Scan# 2515
Delta R.T. -0.02 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.8	25.2
179	15.4	13.9	20.9





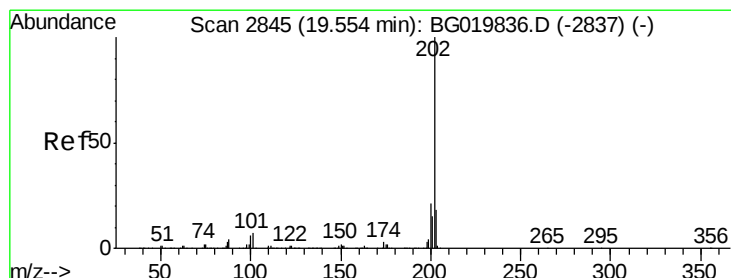
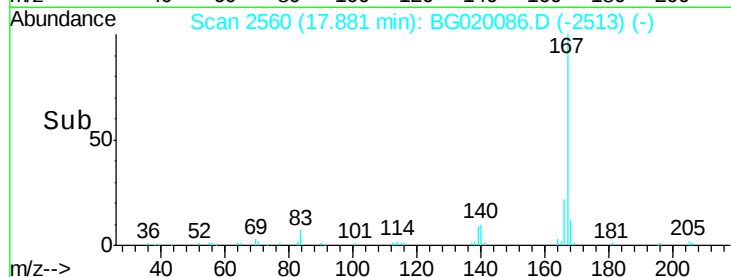
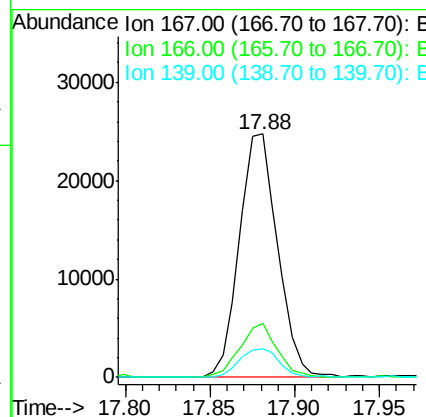
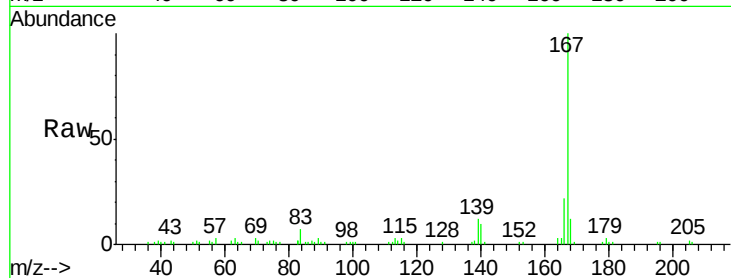
#72
 Carbazole
 Concen: 5.43 ng
 RT: 17.88 min Scan# 2560
 Delta R.T. -0.02 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Instrument :
 BNA_G
 ClientSampleId :
 S1-14.5

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.4	19.0	28.6
139	11.9	10.2	15.4

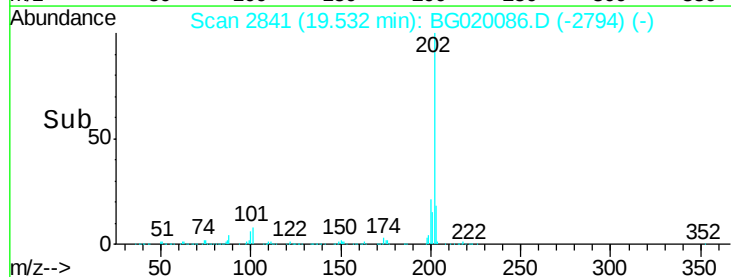
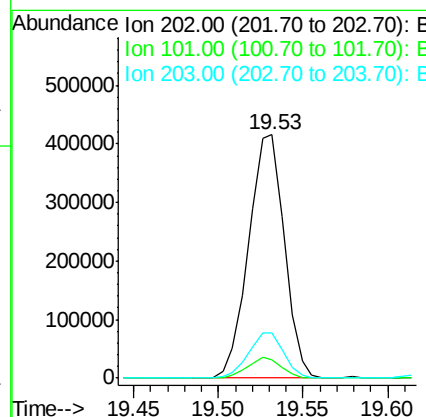
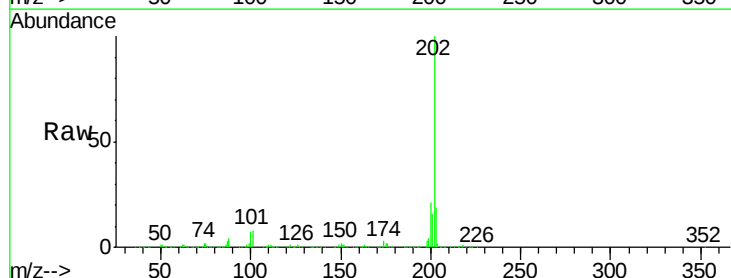
Manual Integrations
 APPROVED

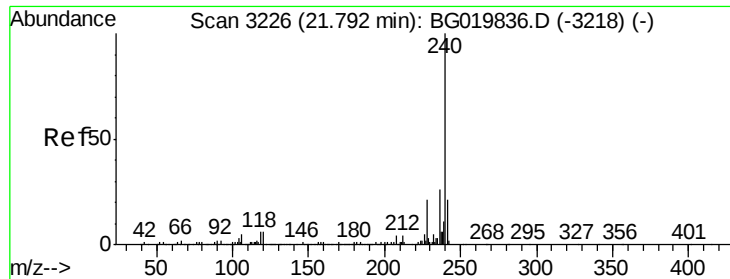
MMdadoda
 12/11/2015 6:02:34 PM



#74
 Fluoranthene
 Concen: 59.58 ng
 RT: 19.53 min Scan# 2841
 Delta R.T. -0.02 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.7	0.0	32.4
203	18.7	0.0	39.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.04 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_G

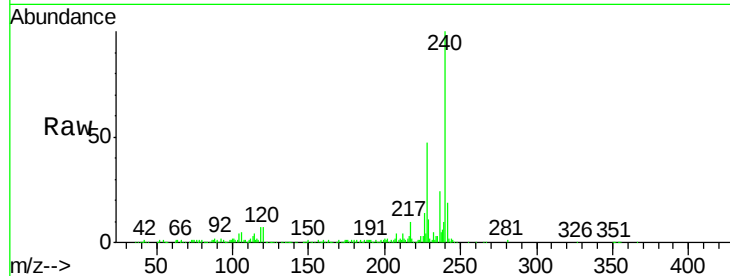
ClientSampleId :

S1-14.5

Tot Ion:	240	Resp:	175243
Ion Ratio	Lower	Upper	
240	100		
120	7.4	7.4	11.0
236	24.5	20.7	31.1

Manual Integrations
APPROVED

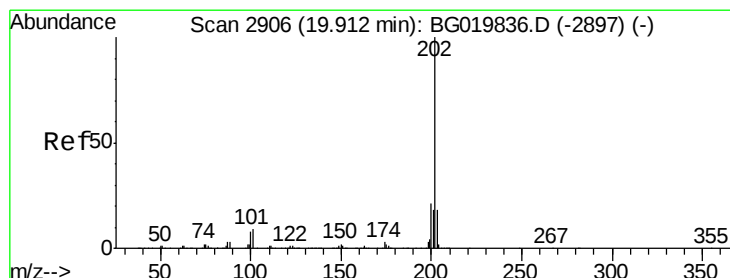
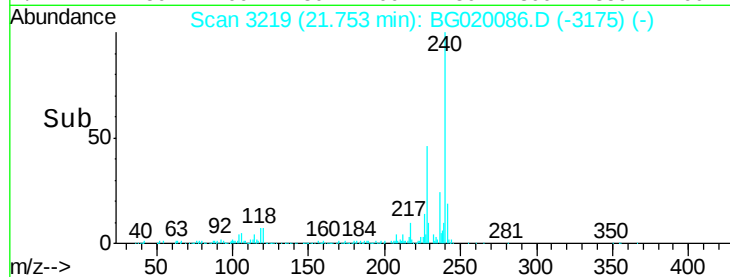
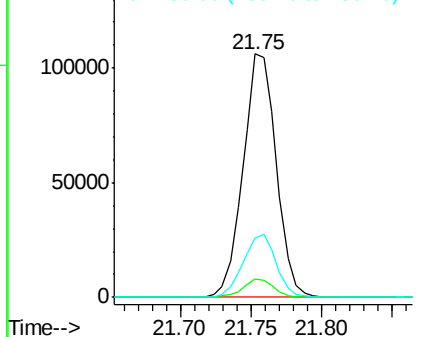
MMdadoda
12/11/2015 6:02:34 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 53.24 ng

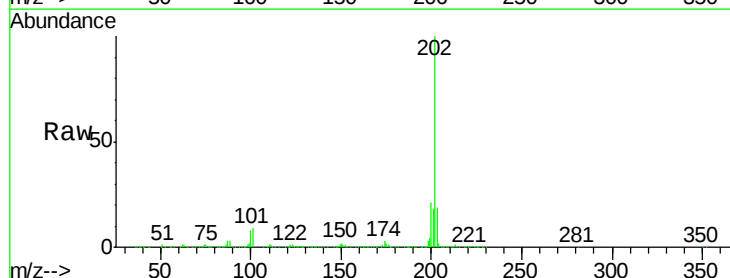
RT: 19.89 min Scan# 2902

Delta R.T. -0.02 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

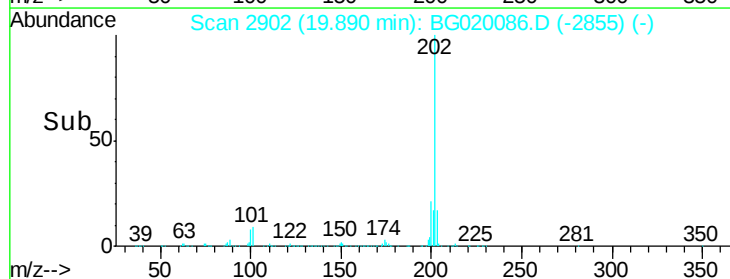
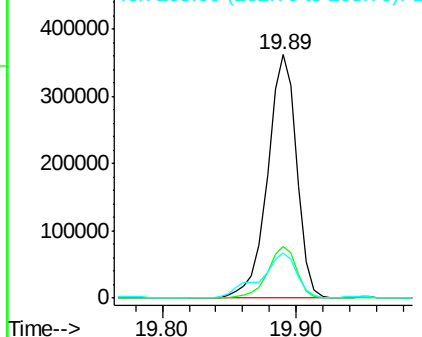
Tgt Ion:	202	Resp:	548894
Ion Ratio	Lower	Upper	
202	100		
200	21.1	19.4	29.0
203	18.7	15.5	23.3

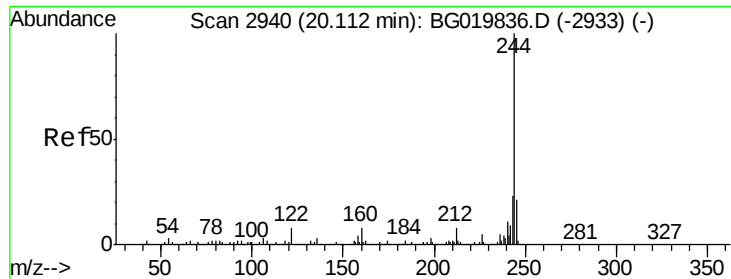


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





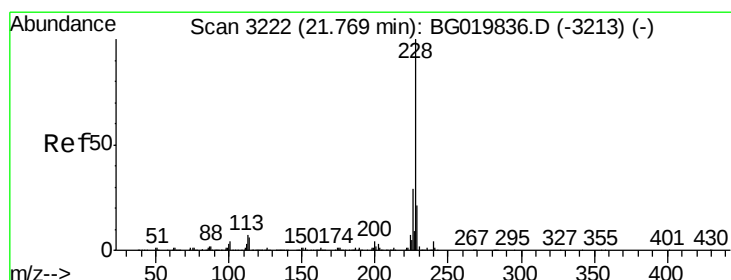
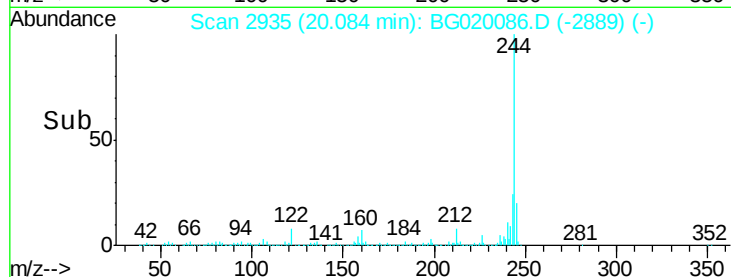
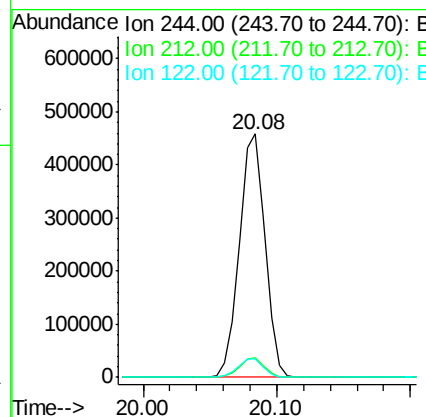
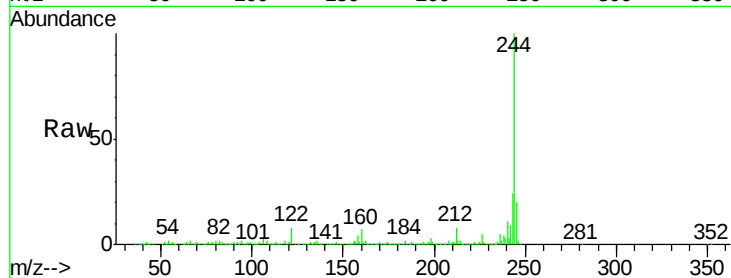
#78
 Terphenyl-d14
 Concen: 85.24 ng
 RT: 20.08 min Scan# 2935
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Instrument :
 BNA_G
 ClientSampleId :
 S1-14.5

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.9	10.3
122	7.5	10.2	15.2

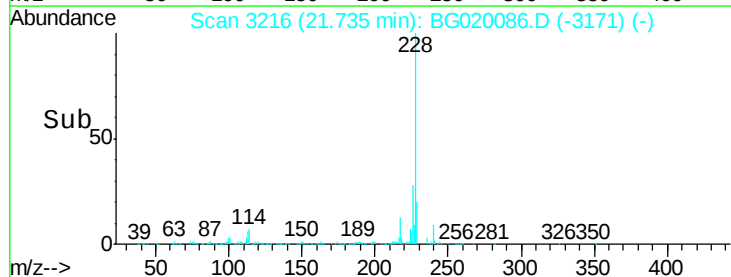
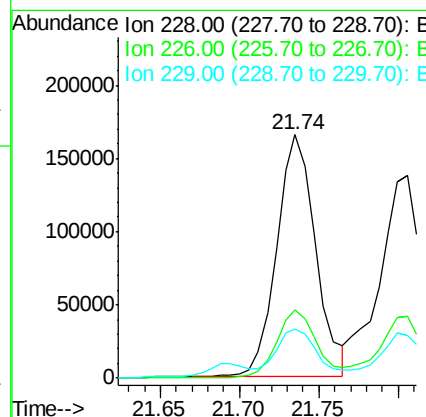
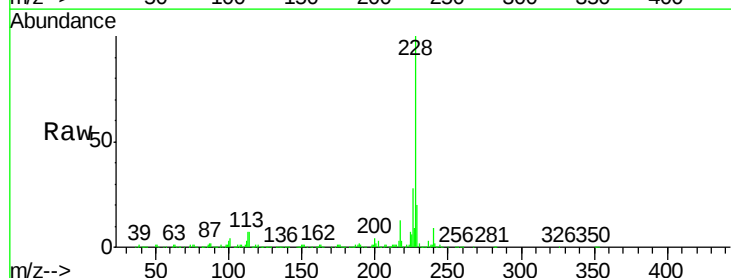
Manual Integrations
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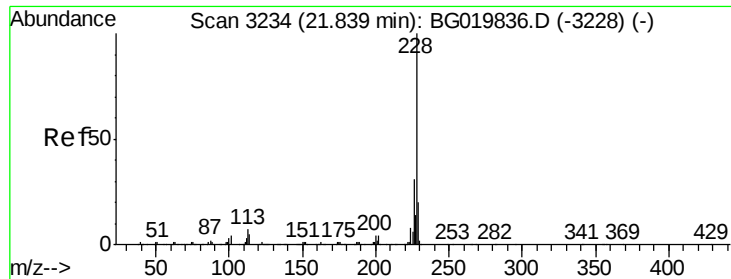
MMdadoda
 12/11/2015 6:02:34 PM



#80
 Benzo(a)anthracene
 Concen: 26.31 ng
 RT: 21.74 min Scan# 3216
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	23.4	35.0
229	20.0	16.6	25.0





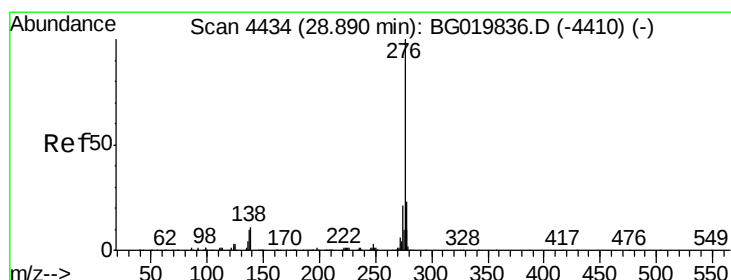
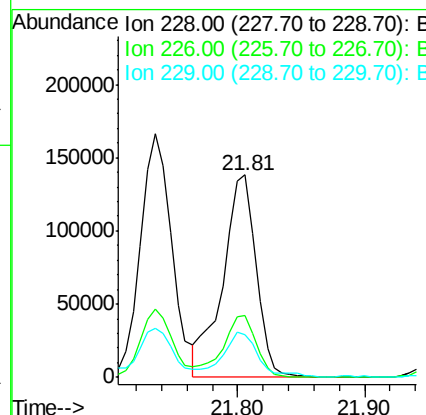
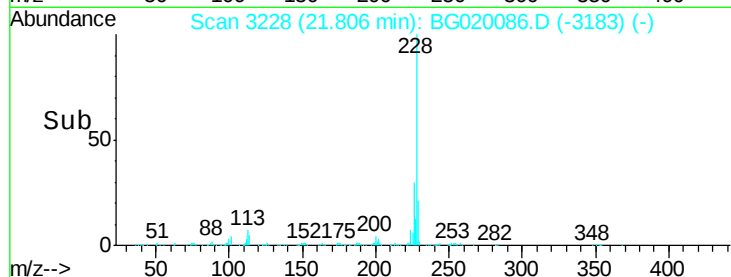
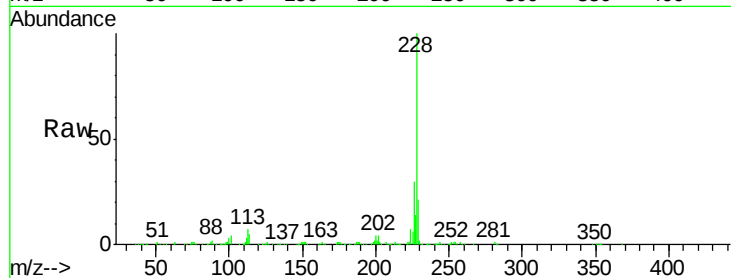
#82
Chrysene
Concen: 24.66 ng
RT: 21.81 min Scan# 3228
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampleId :
S1-14.5

Tot Ion	Ratio	Resp	Lower	Upper
228	100	251117		
226	30.4	26.7	40.1	
229	21.4	17.0	25.6	

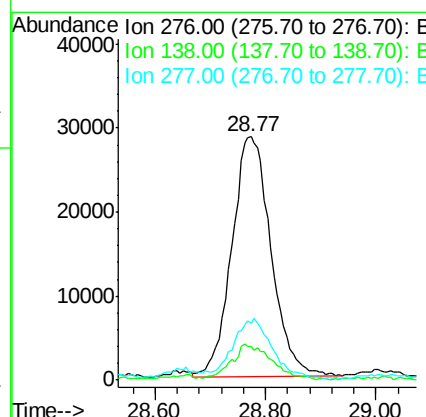
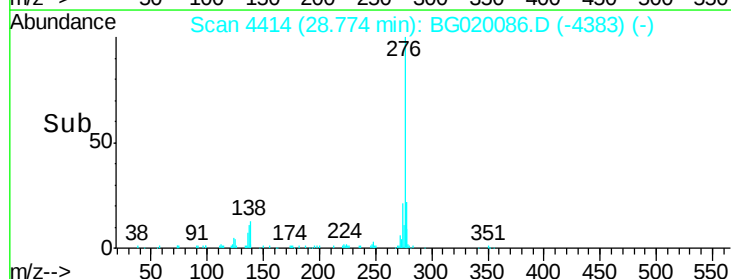
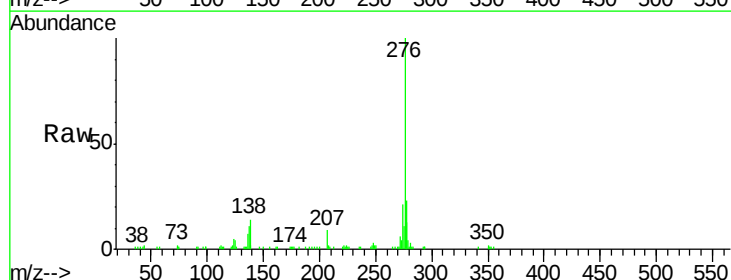
Manual Integrations
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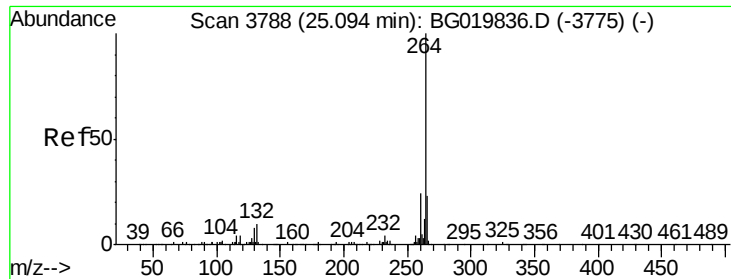
MMdadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 12.50 ng
RT: 28.77 min Scan# 4414
Delta R.T. -0.12 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	140285		
138	14.0	0.0	0.0#	
277	24.5	0.0	0.0#	





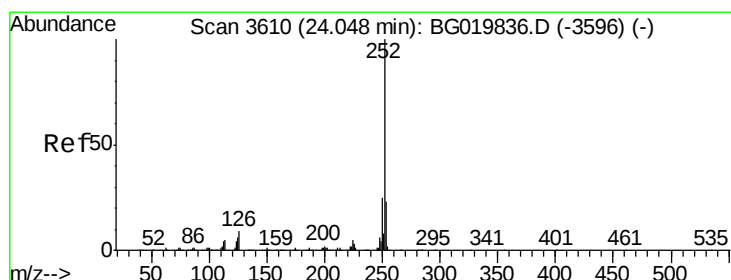
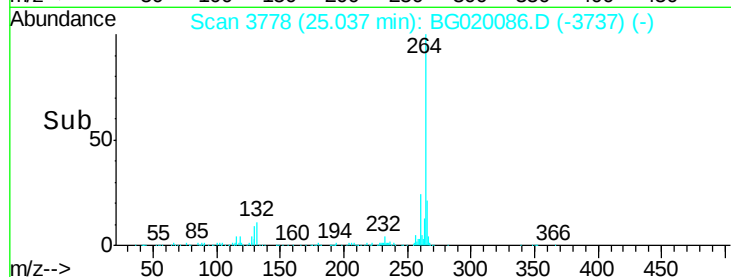
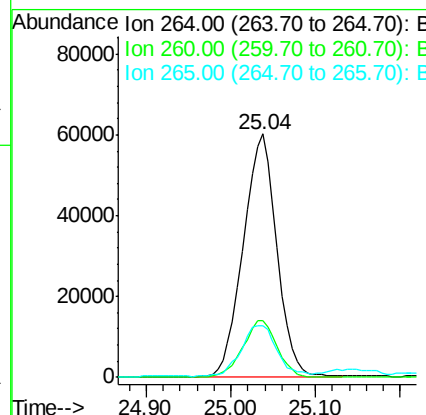
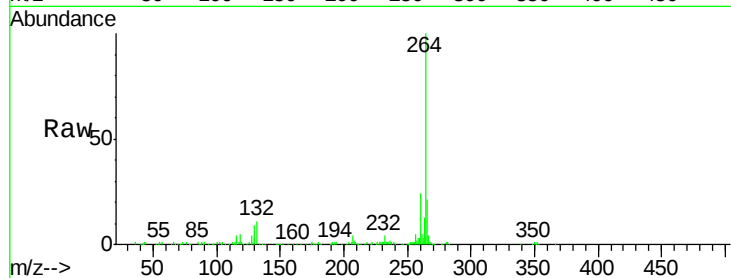
#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.04 min Scan# 3778
Delta R.T. -0.06 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampleId :
S1-14.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	21.2	17.2	25.8

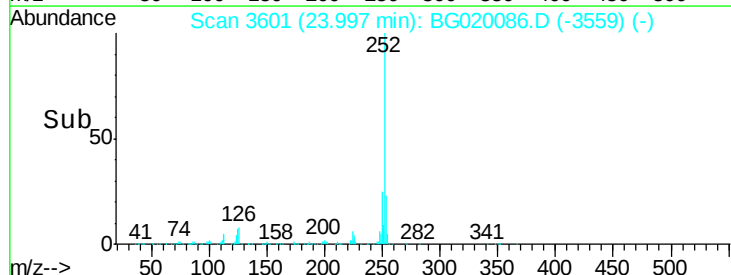
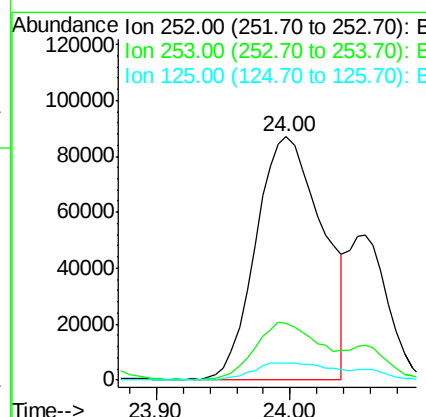
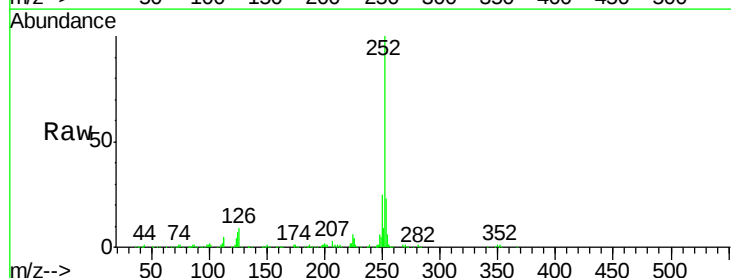
Manual Integrations
APPROVED

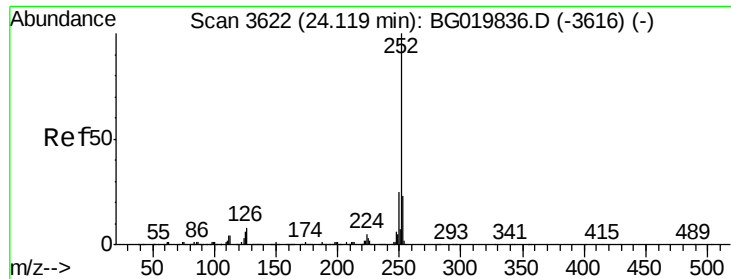
MMdadoda
12/11/2015 6:02:34 PM



#87
Benzo(b)fluoranthene
Concen: 28.68 ng m
RT: 24.00 min Scan# 3601
Delta R.T. -0.05 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.1	28.7
125	7.3	8.9	13.3#





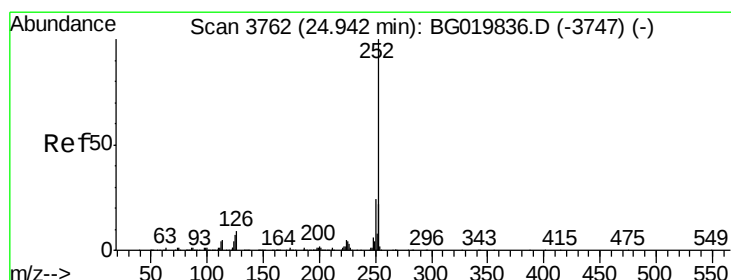
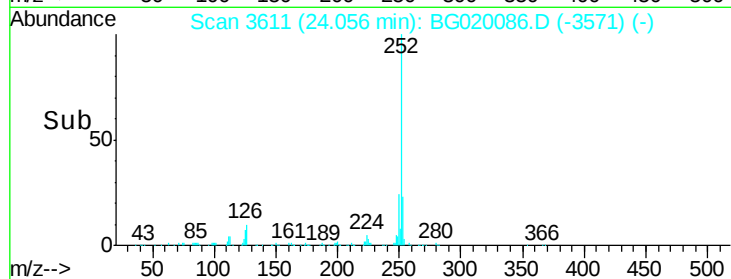
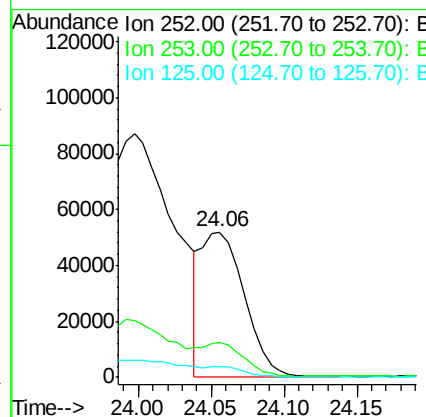
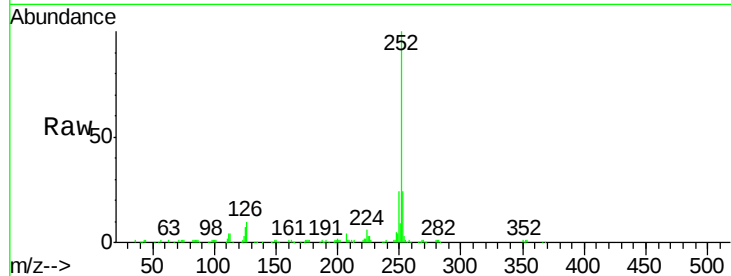
#88
Benzo(k)fluoranthene
Concen: 10.17 ng m
RT: 24.06 min Scan# 3611
Delta R.T. -0.06 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_G
ClientSampled :
S1-14.5

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.9	19.0	28.4
125	6.9	8.9	13.3#

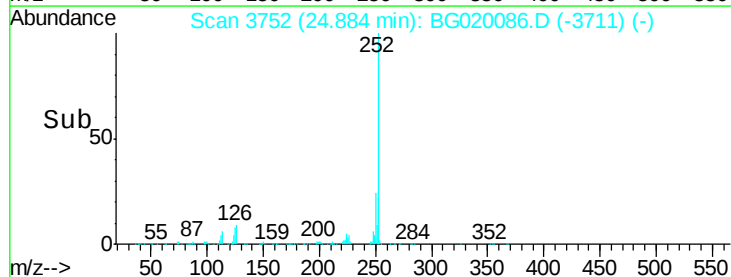
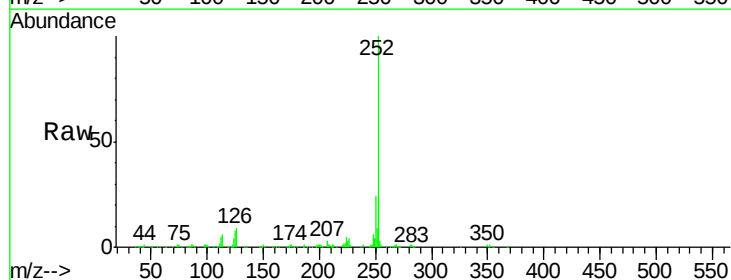
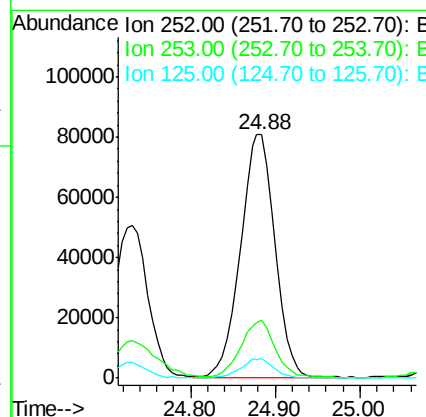
Manual Integrations
APPROVED

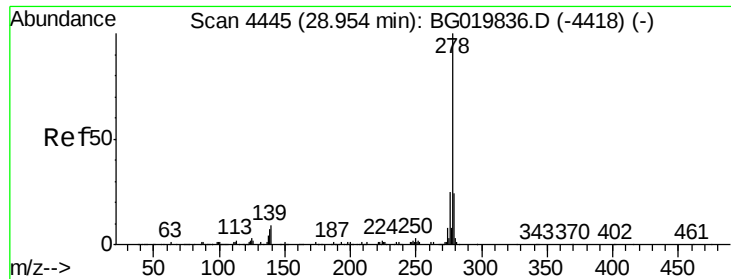
MMdadoda
12/11/2015 6:02:34 PM



#89
Benzo(a)pyrene
Concen: 22.94 ng m
RT: 24.88 min Scan# 3752
Delta R.T. -0.06 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.8	18.7	28.1
125	8.0	9.1	13.7#





#90

Dibenzo(a,h)anthracene

Concen: 3.97 ng/mL

RT: 28.83 min Scan# 4423

Delta R.T. -0.13 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_G

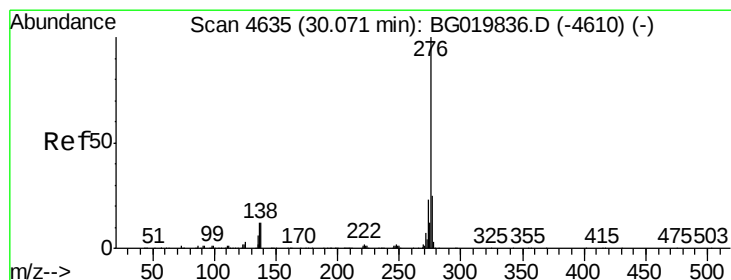
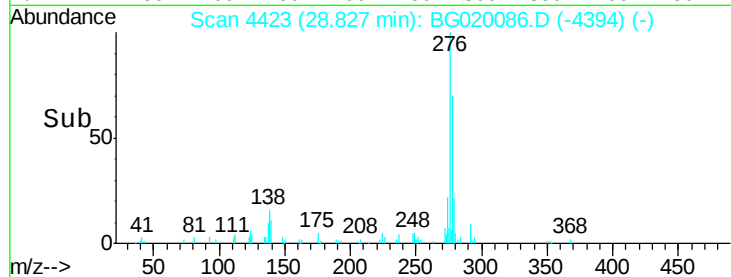
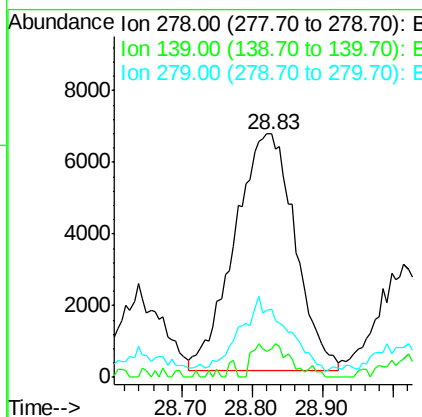
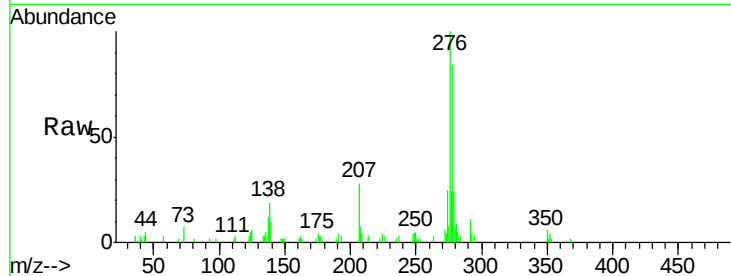
ClientSampleId :

S1-14.5

Tot Ion:	278	Resp:	39381
Ion Ratio	Lower	Upper	
278	100		
139	11.5	13.8	20.6#
279	28.2	19.4	29.0

Manual Integrations
APPROVED

MMdadoda
12/11/2015 6:02:34 PM



#91

Benzo(g,h,i)perylene

Concen: 13.63 ng/mL

RT: 29.94 min Scan# 4613

Delta R.T. -0.13 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Tgt Ion:	276	Resp:	132758
Ion Ratio	Lower	Upper	
276	100		
277	23.0	18.4	27.6
138	14.8	17.4	26.0#

