

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022416\
 Data File : BG021056.D
 Acq On : 24 Feb 2016 17:52
 Operator : UM/SJ
 Sample : H1520-07
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)

Manual Integrations
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Quant Time: Feb 25 07:52:00 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 24 00:35:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	3617	20.00	ng	0.00
21) Naphthalene-d8	11.02	136	20178	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	10669	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	19734	20.00	ng	0.00
75) Chrysene-d12	21.84	240	21417	20.00	ng	0.01
86) Perylene-d12	25.17	264	18532	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	23707	114.91	ng	0.00
7) Phenol-d6	7.40	99	45036	141.74	ng	0.00
23) Nitrobenzene-d5	9.38	82	31346	91.21	ng	0.00
41) 2,4,6-Tribromophenol	16.30	330	4963	38.83	ng	0.00
44) 2-Fluorobiphenyl	13.44	172	59914	78.18	ng	0.00
78) Terphenyl-d14	20.14	244	63441	38.44	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.08	128	10743	10.18	ng	99
37) 2-Methylnaphthalene	12.66	142	10362	13.49	ng	94
45) 1,1'-Biphenyl	13.65	154	5704	6.16	ng	96
49) Dimethylphthalate	14.27	163	12915	14.85	ng	99
51) Acenaphthene	14.88	154	85474	125.56	ng	96
54) Dibenzofuran	15.22	168	80052	82.82	ng	93
57) Fluorene	15.86	166	100394	109.93	ng	98
70) Phenanthrene	17.63	178	1324447m	1186.46	ng	
71) Anthracene	17.70	178	256826	230.91	ng	98
72) Carbazole	17.98	167	117082	116.82	ng	98
74) Fluoranthene	19.62	202	1266186	1127.91	ng	92
77) Pyrene	19.98	202	850019	347.37	ng	# 92
80) Benzo(a)anthracene	21.83	228	383457	298.58	ng	98
82) Chrysene	21.90	228	295717	246.80	ng	95
85) Indeno(1,2,3-cd)pyrene	29.02	276	139733m	129.67	ng	
87) Benzo(b)fluoranthene	24.13	252	352300	288.34	ng	97
88) Benzo(k)fluoranthene	24.19	252	118907m	103.16	ng	
89) Benzo(a)pyrene	25.04	252	256276	234.09	ng	# 94
90) Dibenzo(a,h)anthracene	29.03	278	37222	37.75	ng	98
91) Benzo(a,h,i)perylene	30.20	276	120960	122.93	ng	94

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

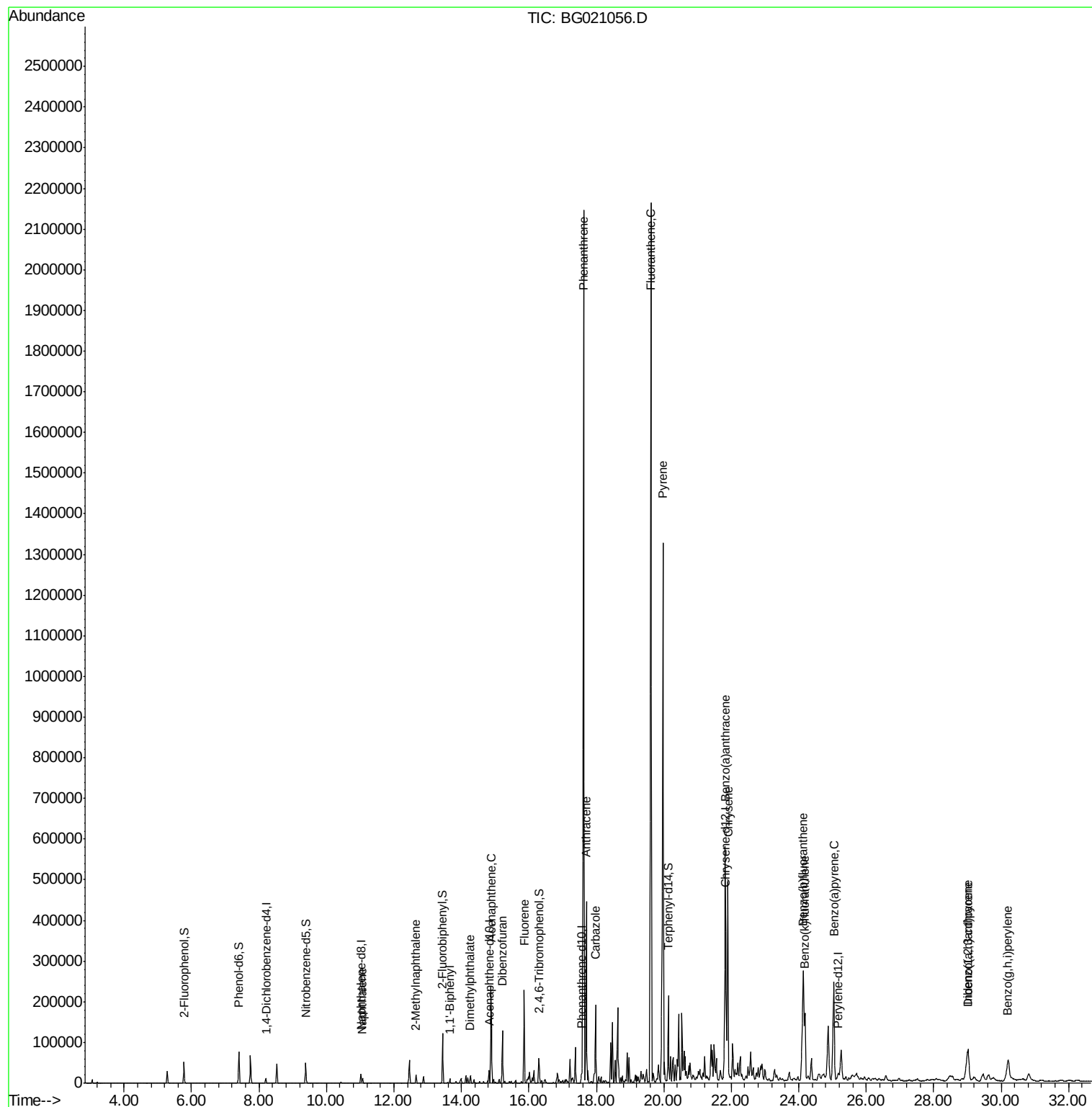
Data Path : Z:\HPCHEM1\BNA G\DATA\BG022416\
Data File : BG021056.D
Acq On : 24 Feb 2016 17:52
Operator : UM/SJ
Sample : H1520-07
Misc :
ALS Vial : 3 Sample Multiplier: 1

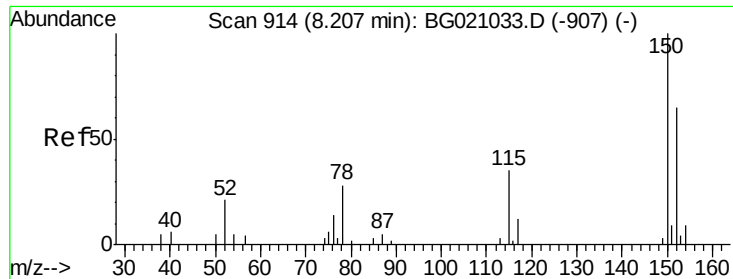
Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)

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Quant Time: Feb 25 07:52:00 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 24 00:35:06 2016
Response via : Initial Calibration





#1

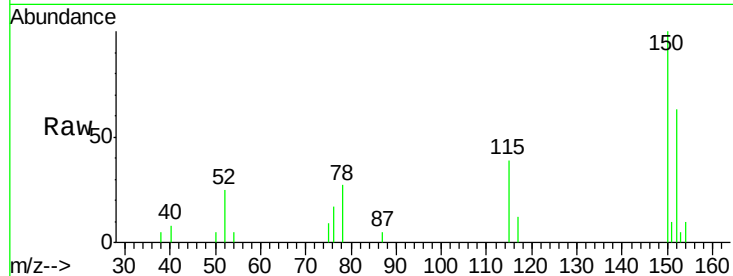
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.20 min Scan# 913
Delta R.T. -0.00 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)

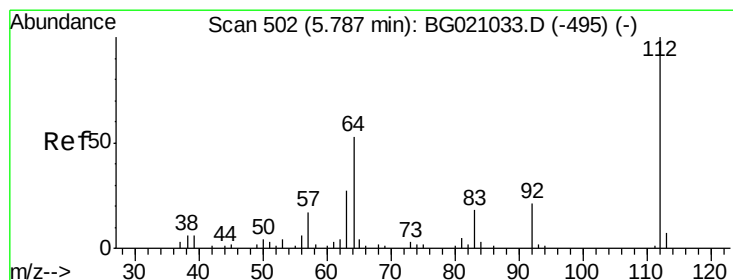
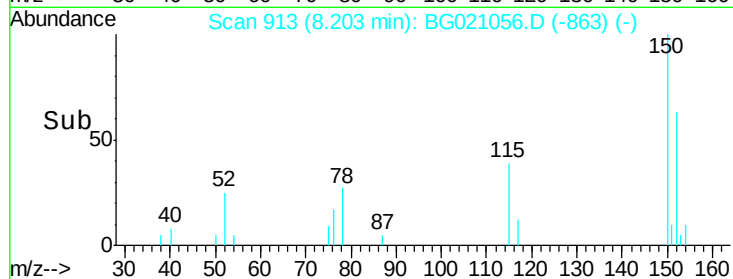
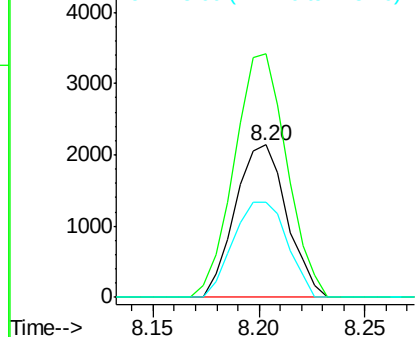
Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	123.4	185.2
115	62.4	43.3	64.9

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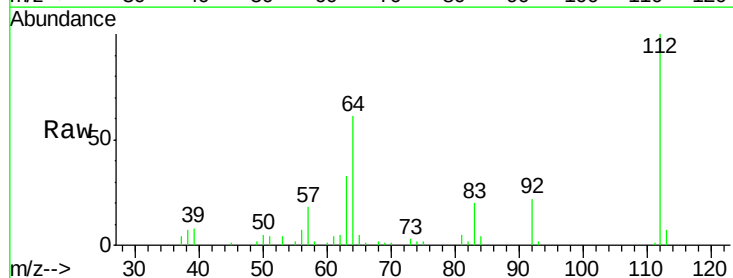
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



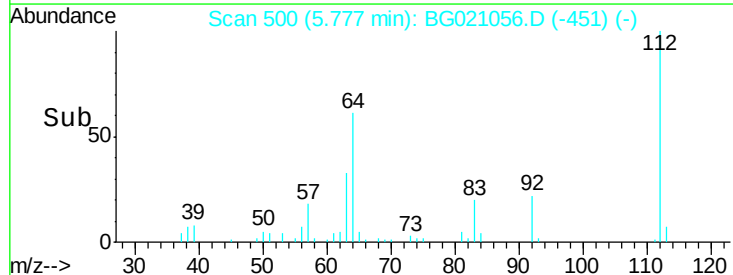
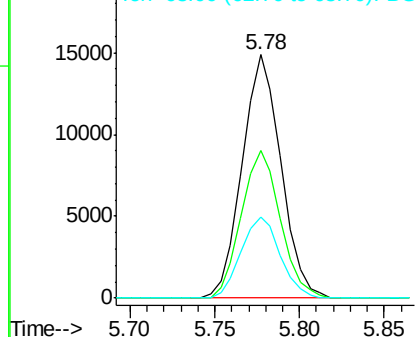
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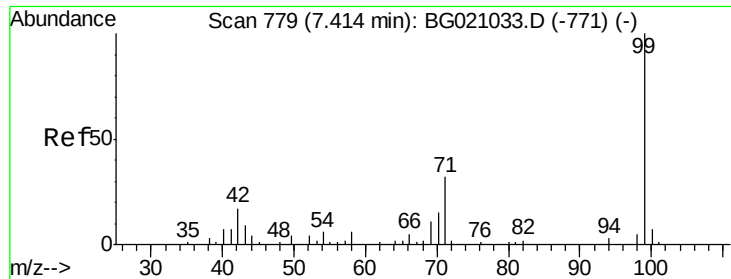
2-Fluorophenol
Concen: 114.91 ng
RT: 5.78 min Scan# 500
Delta R.T. -0.01 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	42.6	63.8
63	33.2	21.7	32.5#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 141.74 ng

RT: 7.40 min Scan# 777

Delta R.T. -0.01 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

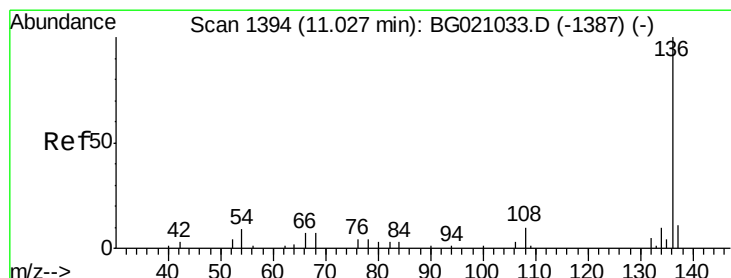
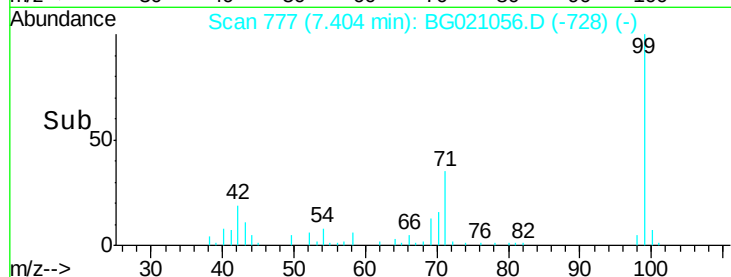
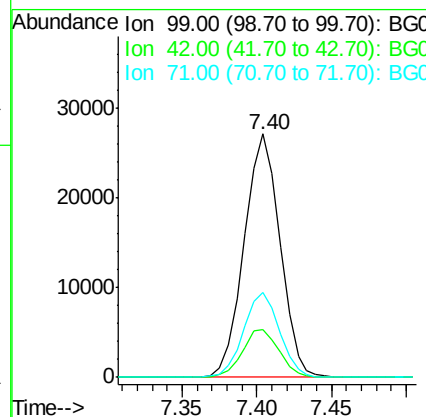
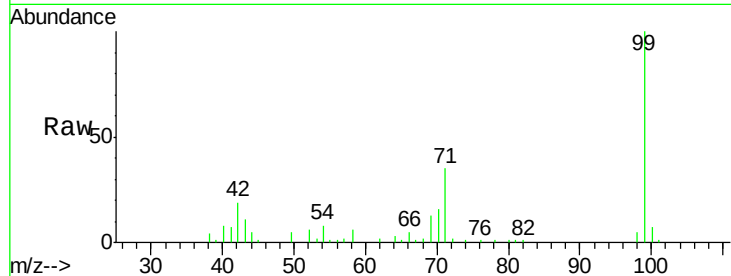
ClientSampleId :

40054+15(0-2)

Tot Ion:	99	Resp:	45036
Ion Ratio	Lower	Upper	
99	100		
42	19.4	13.2	19.8
71	34.7	25.2	37.8

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#21

Naphthalene-d8

Concen: 20.00 ng

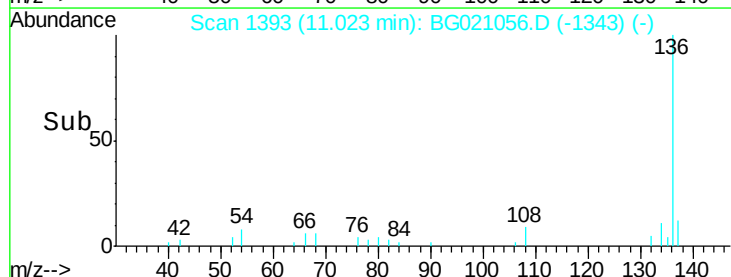
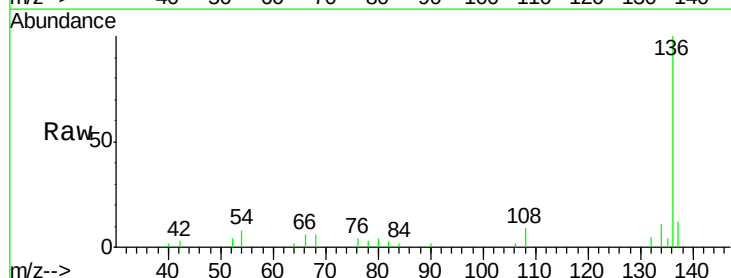
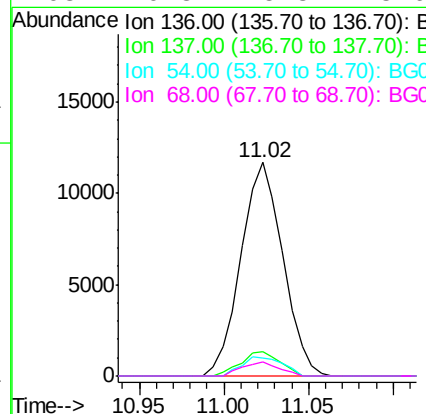
RT: 11.02 min Scan# 1393

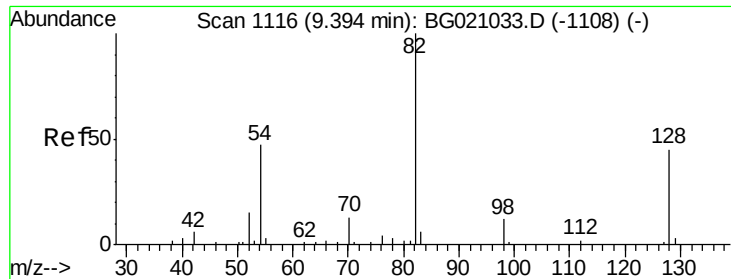
Delta R.T. -0.00 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	136	Resp:	20178
Ion Ratio	Lower	Upper	
136	100		
137	11.5	8.8	13.2
54	8.3	6.9	10.3
68	6.3	5.8	8.6





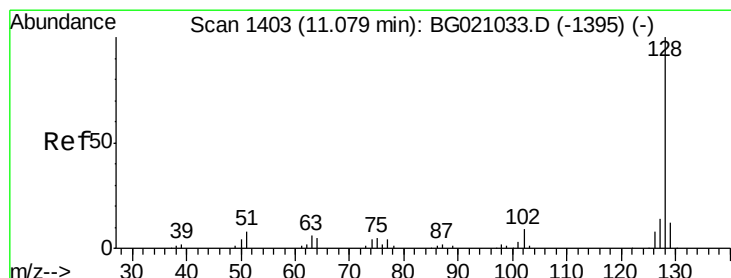
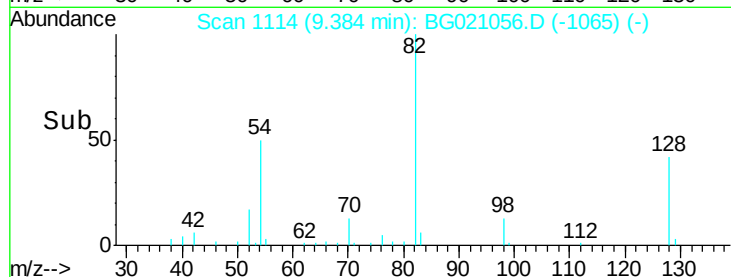
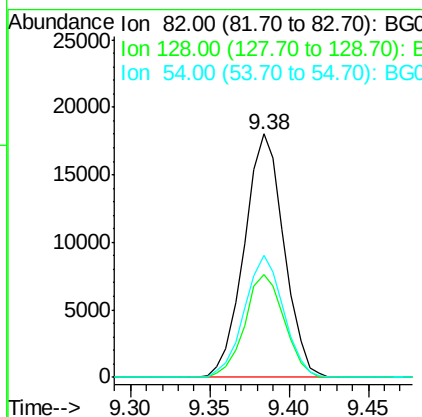
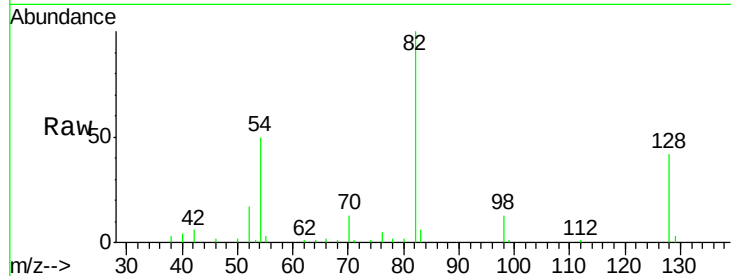
#23
 Nitrobenzene-d5
 Concen: 91.21 ng
 RT: 9.38 min Scan# 1114
 Delta R.T. -0.01 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.1	36.3	54.5	
54	50.0	37.6	56.4	

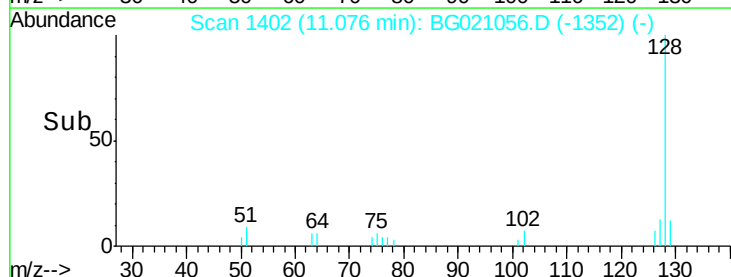
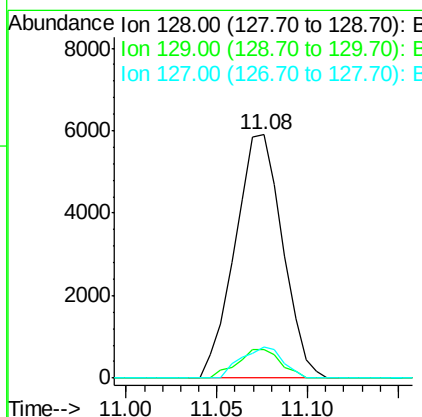
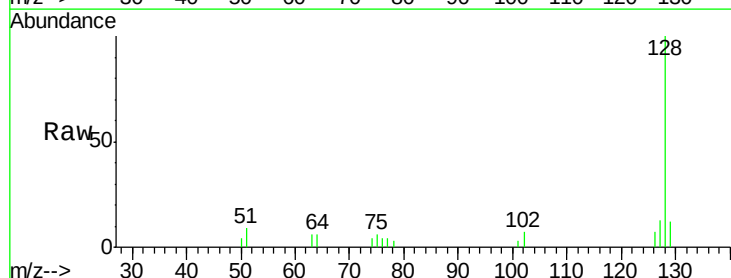
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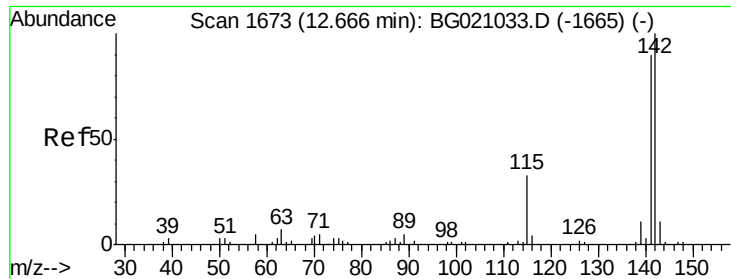
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#31
 Naphthalene
 Concen: 10.18 ng
 RT: 11.08 min Scan# 1402
 Delta R.T. -0.00 min
 Lab File: BG021056.D
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.8	9.4	14.2	
127	13.0	10.8	16.2	





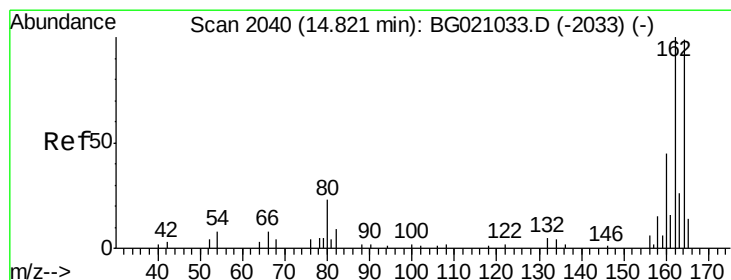
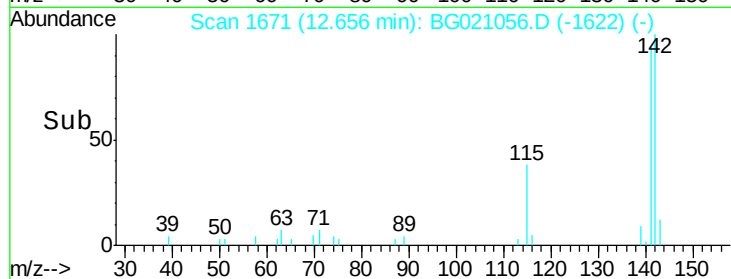
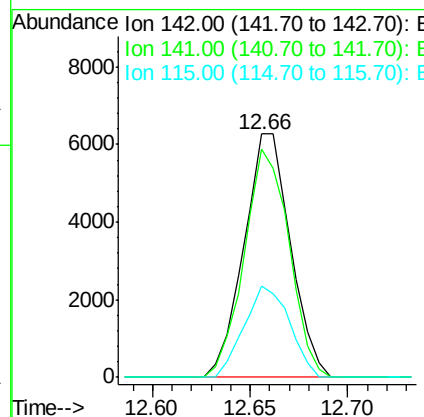
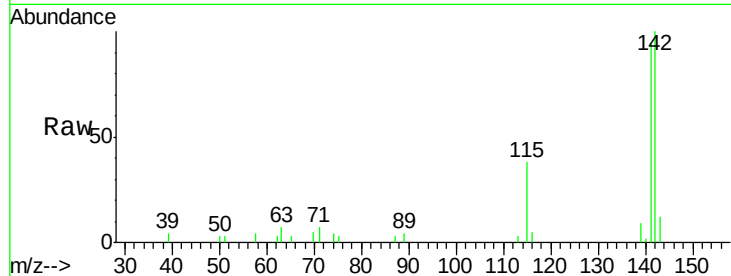
#37
 2-Methylnaphthalene
 Concen: 13.49 ng
 RT: 12.66 min Scan# 1671
 Delta R.T. -0.01 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.0	71.7	107.5
115	37.6	26.2	39.4

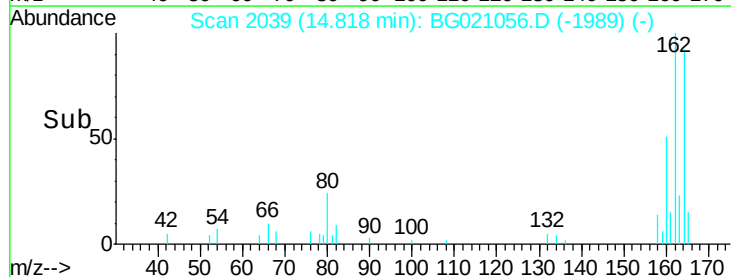
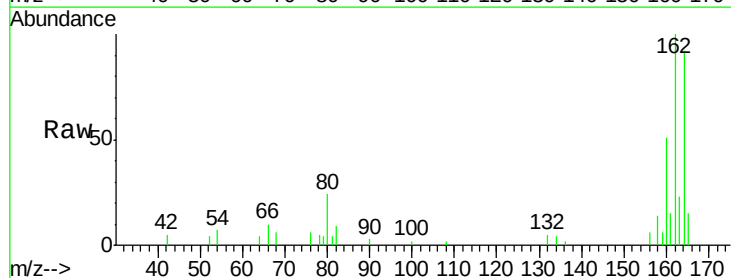
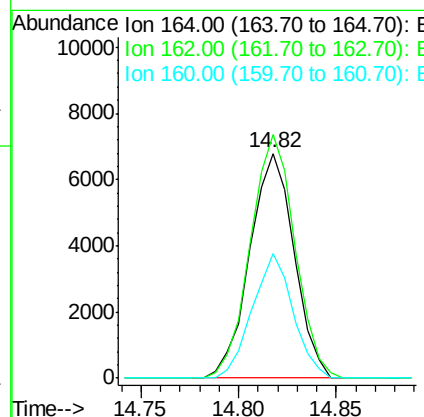
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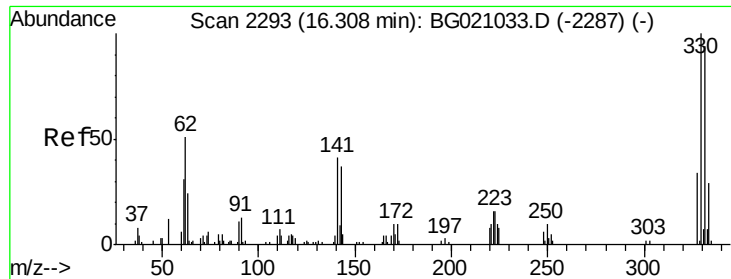
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.82 min Scan# 2039
 Delta R.T. -0.00 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	108.4	80.6	120.8
160	55.6	36.5	54.7#





#41

2,4,6-Tribromophenol

Concen: 38.83 ng

RT: 16.30 min Scan# 2292

Delta R.T. -0.00 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

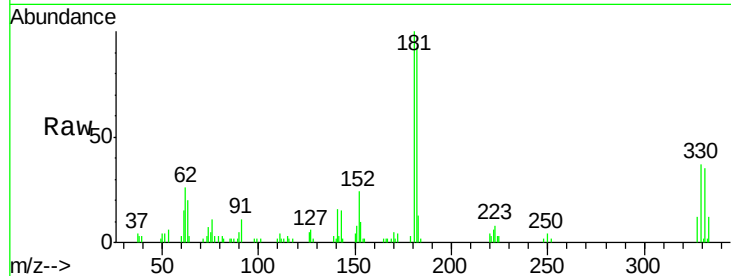
ClientSampleId :

40054+15(0-2)

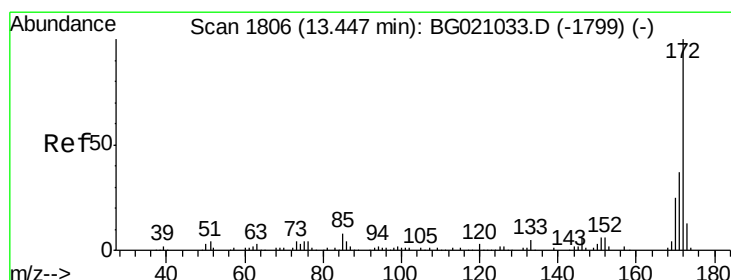
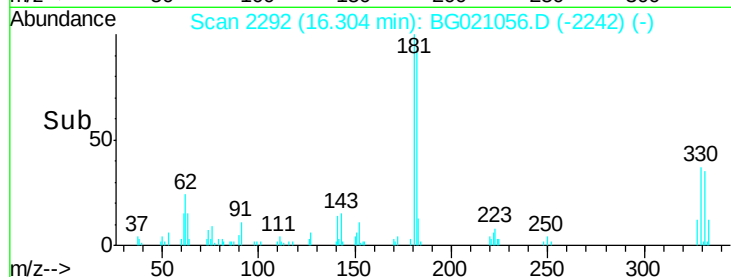
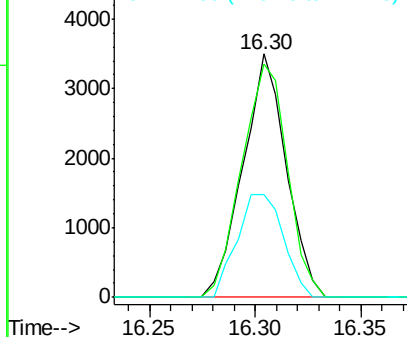
Tot Ion:	330	Resp:	4963
Ion Ratio	Lower	Upper	
330	100		
332	101.0	77.4	116.0
141	45.5	35.3	52.9

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 78.18 ng

RT: 13.44 min Scan# 1805

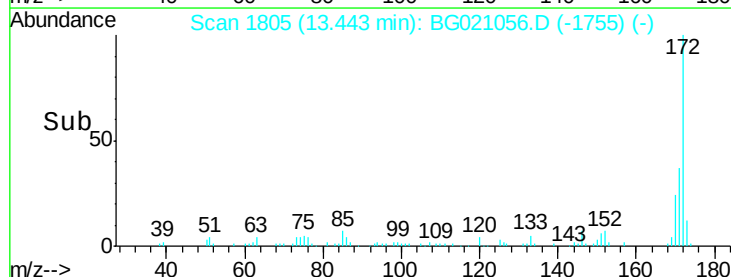
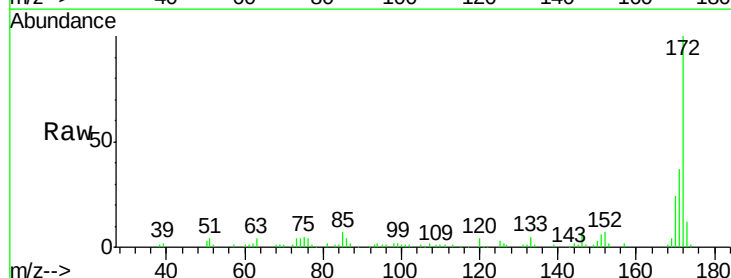
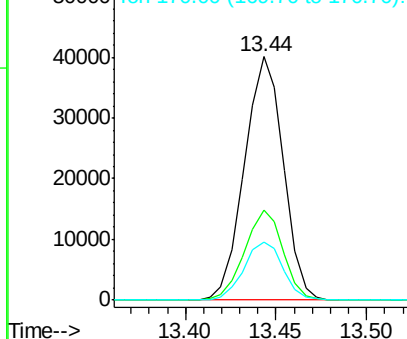
Delta R.T. -0.00 min

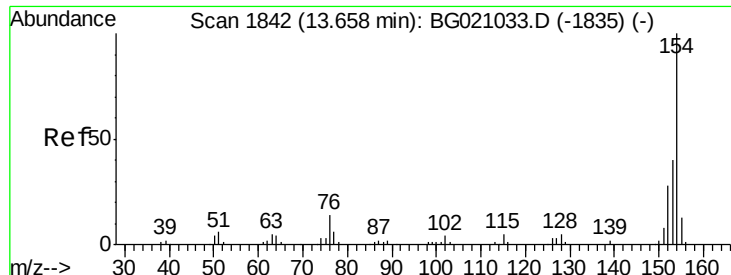
Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	172	Resp:	59914
Ion Ratio	Lower	Upper	
172	100		
171	37.2	29.4	44.0
170	24.1	19.8	29.8

Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





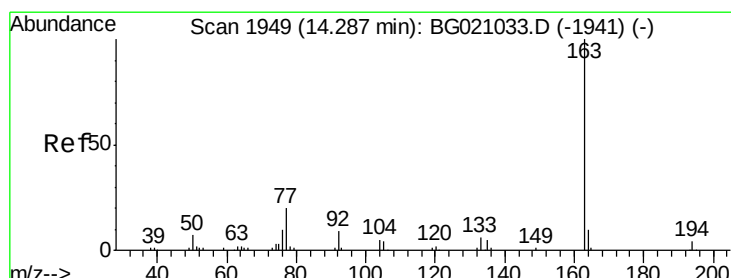
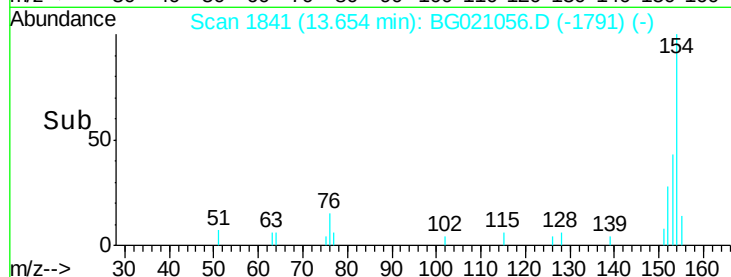
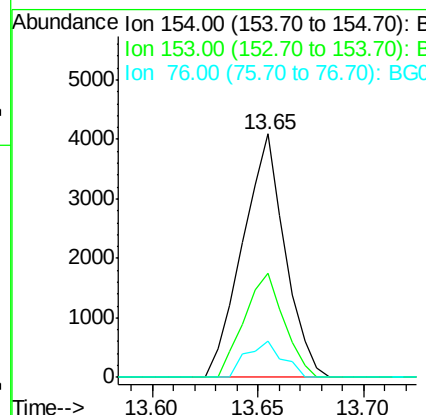
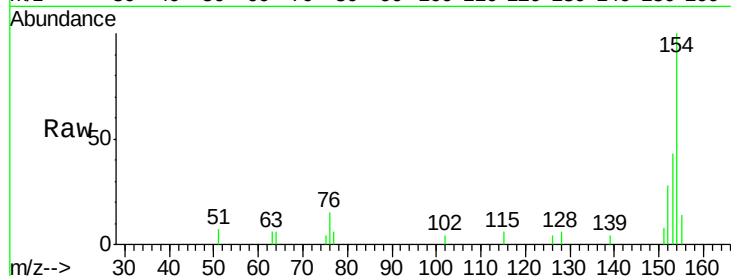
#45
 1,1'-Biphenyl
 Concen: 6.16 ng
 RT: 13.65 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)

Tot Ion	Ratio	Lower	Upper
154	100		
153	42.6	19.8	59.8
76	14.9	0.0	33.6

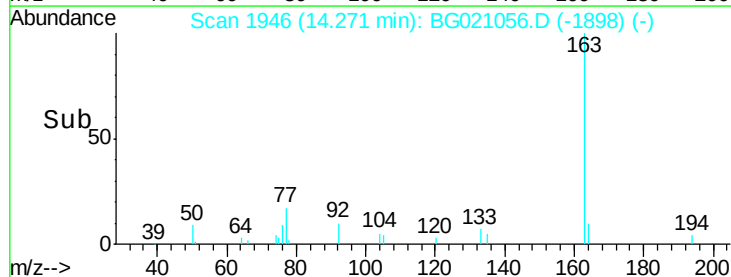
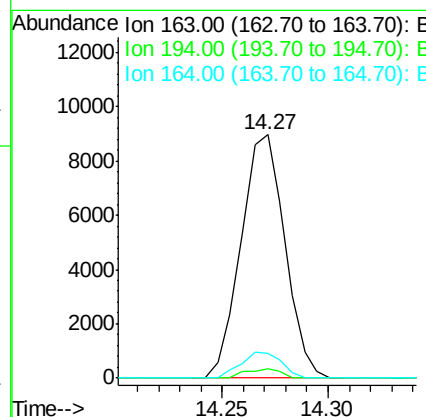
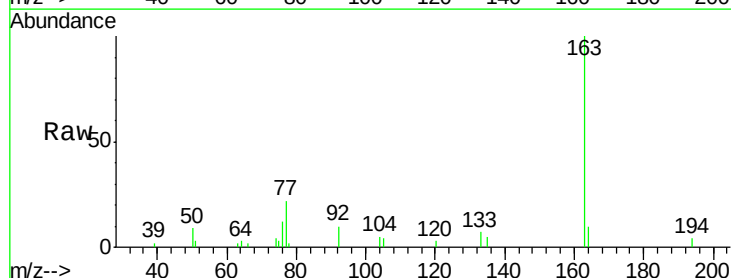
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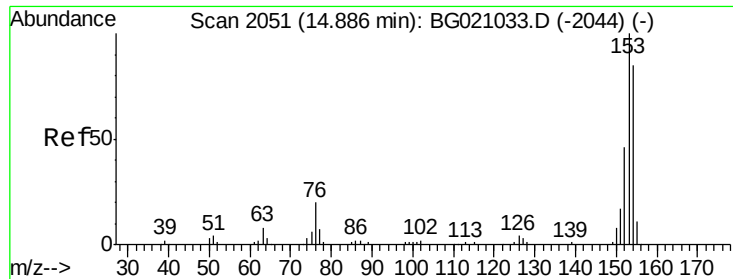
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#49
 Dimethylphthalate
 Concen: 14.85 ng
 RT: 14.27 min Scan# 1946
 Delta R.T. -0.02 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.8	4.2
164	10.3	7.9	11.9





#51

Acenaphthene

Concen: 125.56 ng

RT: 14.88 min Scan# 2050

Delta R.T. -0.00 min

Lab File: BG021056.D

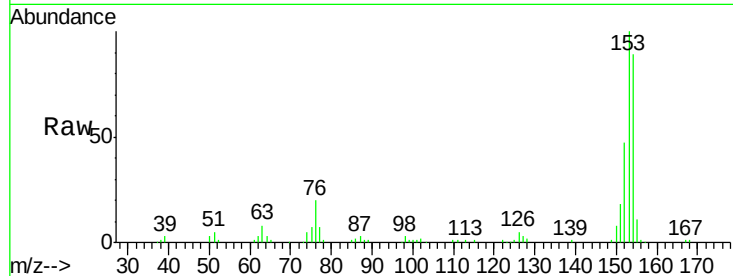
Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

ClientSampleId :

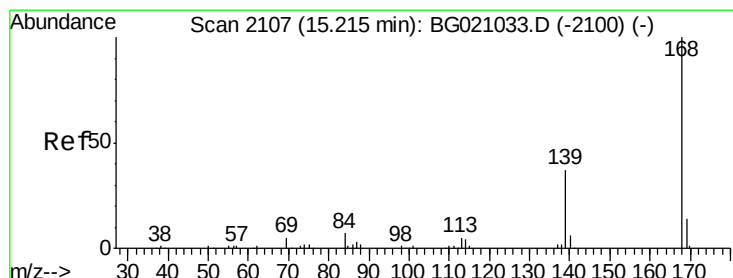
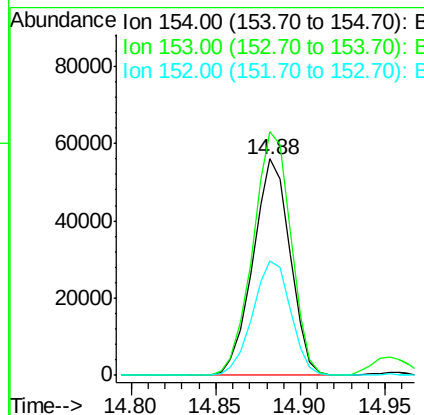
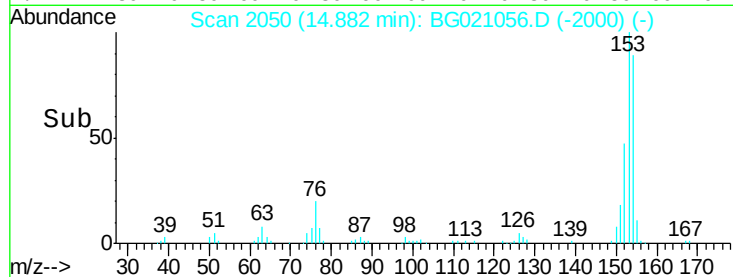
40054+15(0-2)



Tot Ion:	154	Resp:	85474
Ion Ratio	Lower	Upper	
154	100		
153	112.5	94.2	141.2
152	52.8	42.9	64.3

Manual Integrations
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#54

Dibenzofuran

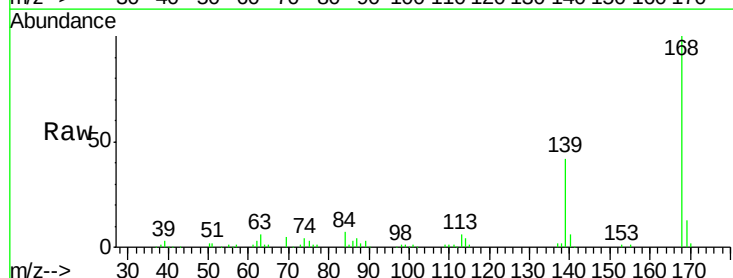
Concen: 82.82 ng

RT: 15.22 min Scan# 2107

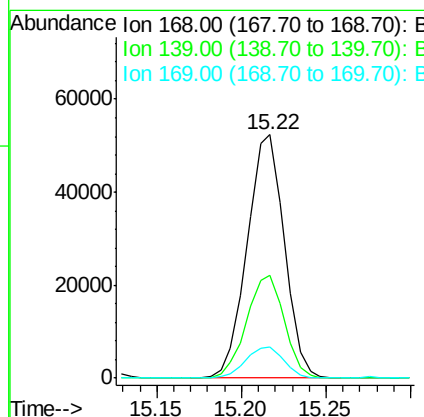
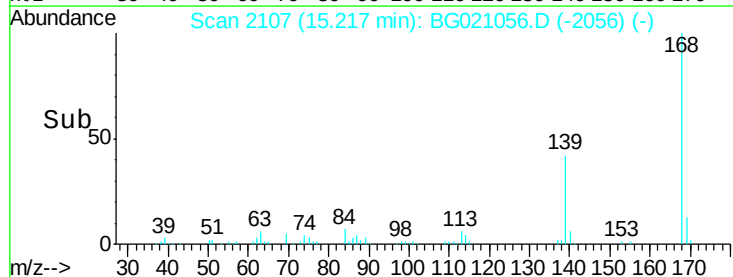
Delta R.T. 0.00 min

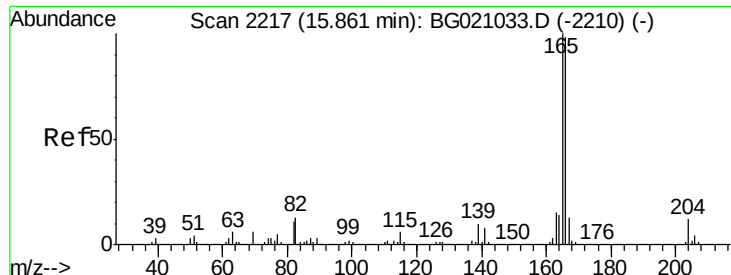
Lab File: BG021056.D

Acq: 24 Feb 2016 17:52



Tgt Ion:	168	Resp:	80052
Ion Ratio	Lower	Upper	
168	100		
139	42.3	29.8	44.8
169	13.0	11.4	17.2





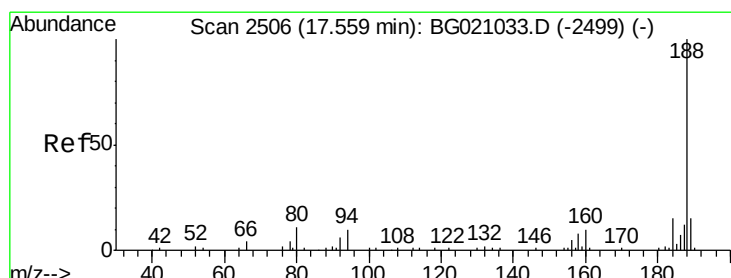
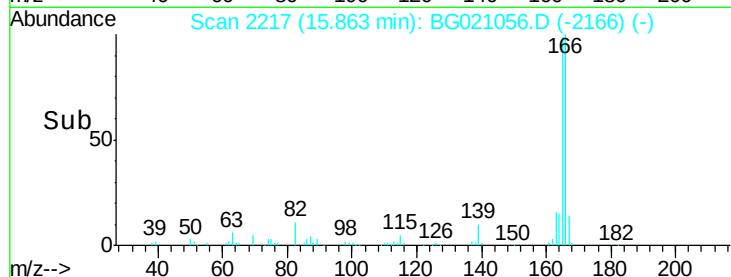
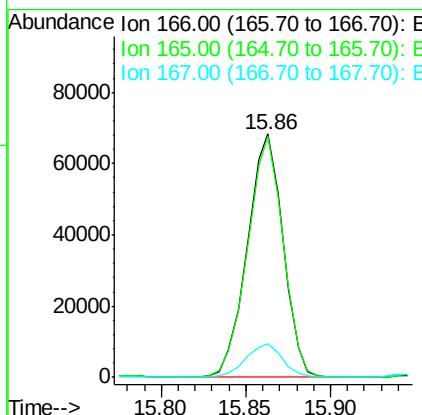
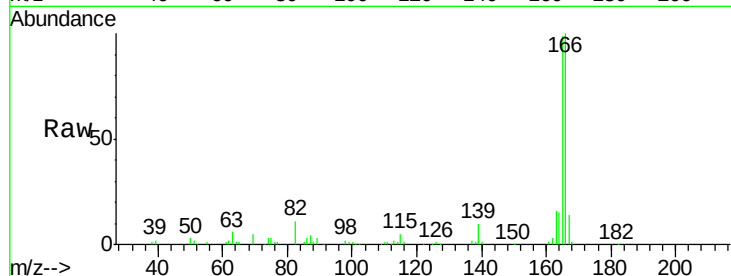
#57
Fluorene
 Concen: 109.93 ng
 RT: 15.86 min Scan# 2217
 Delta R.T. 0.00 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Instrument :
 BNA_G
 ClientSampleId :
 40054+15(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	100394		
165	99.1	81.3	121.9	
167	13.8	10.6	16.0	

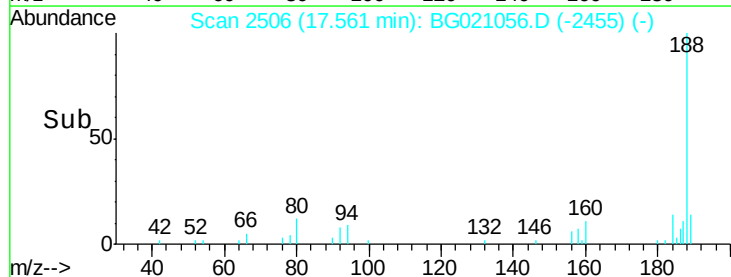
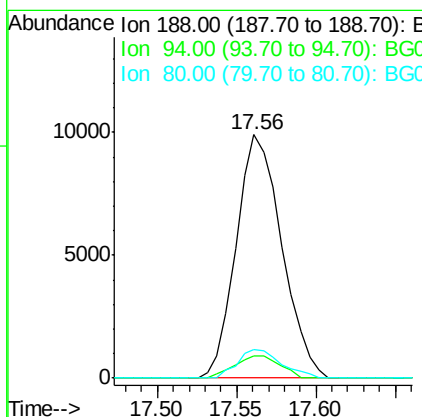
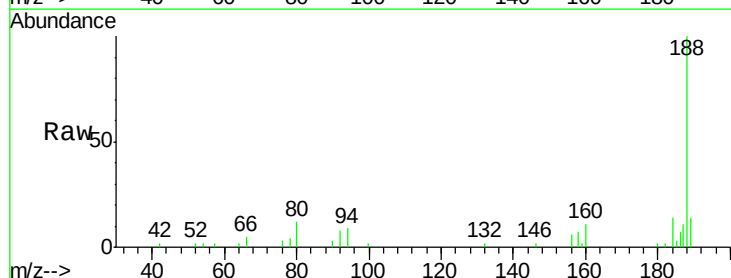
Manual Integrations
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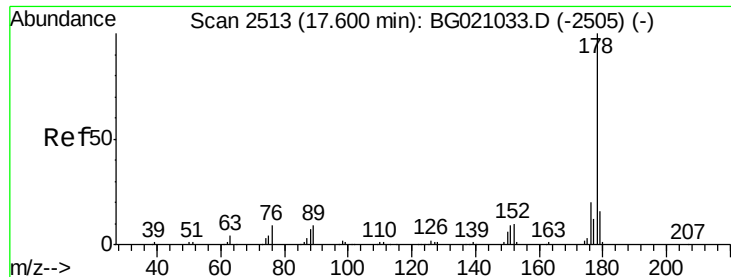
Sohil
 2/25/2016 2:40:10 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.56 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: BG021056.D
 Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	19734		
94	8.9	8.2	12.4	
80	11.6	9.2	13.8	





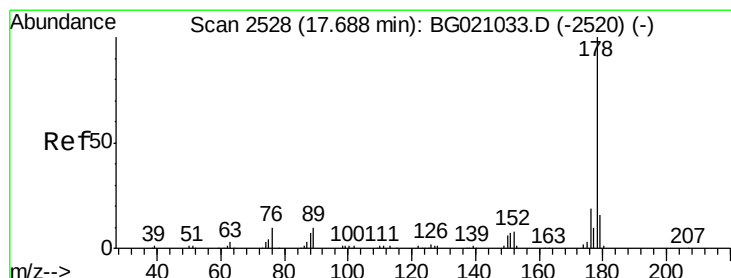
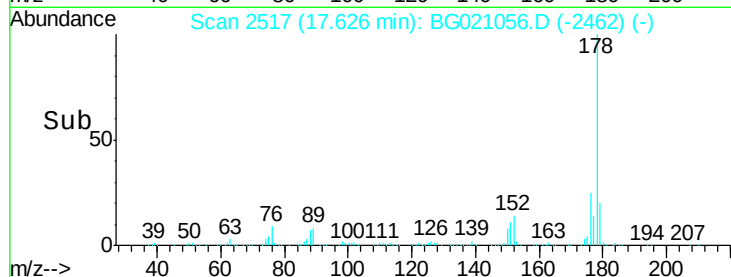
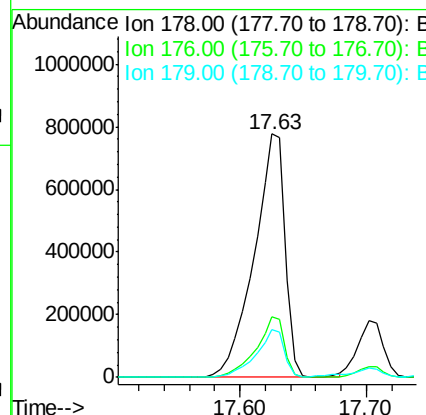
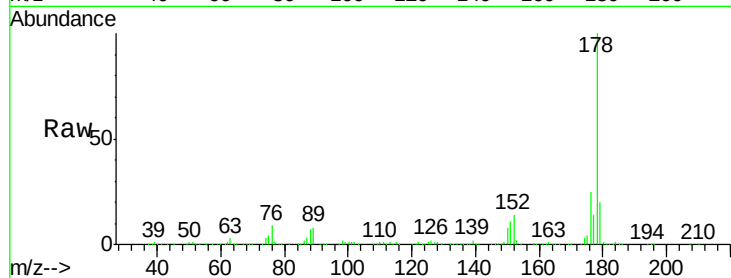
#70
Phenanthrene
Concen: 1186.46 ng/mL
RT: 17.63 min Scan# 2517
Delta R.T. 0.03 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Instrument :
BNA_G
ClientSampleID :
40054+15(0-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	24.6	16.2	24.4
179	19.5	12.9	19.3

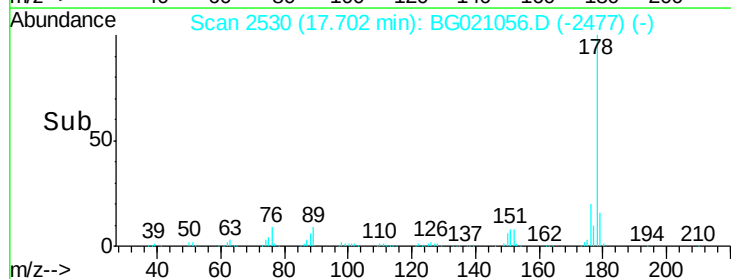
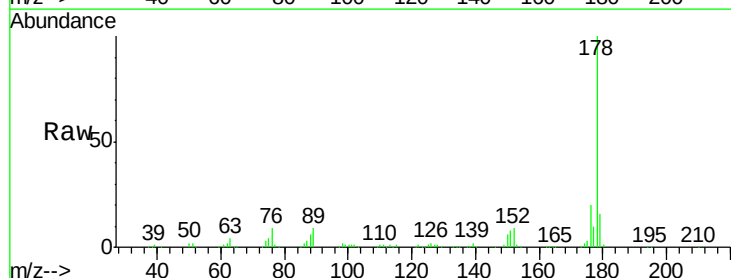
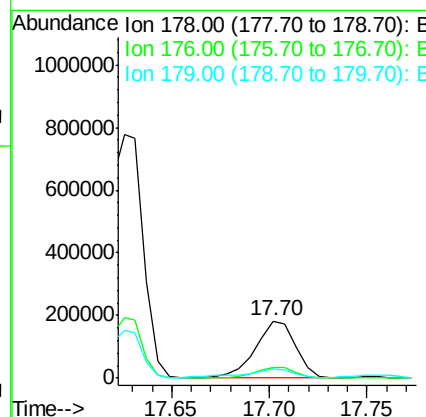
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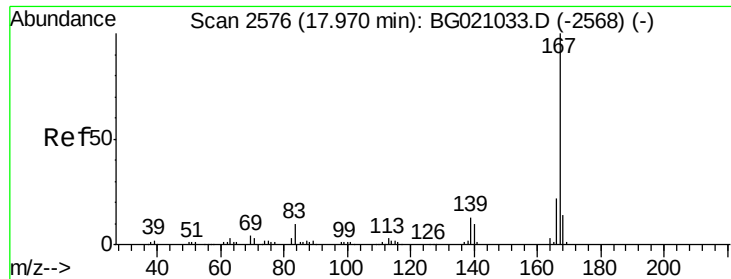
Sohil
2/25/2016 2:40:10 PM



#71
Anthracene
Concen: 230.91 ng/mL
RT: 17.70 min Scan# 2530
Delta R.T. 0.01 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	14.8	22.2
179	16.3	12.6	19.0





#72

Carbazole

Concen: 116.82 ng

RT: 17.98 min Scan# 2577

Delta R.T. 0.01 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

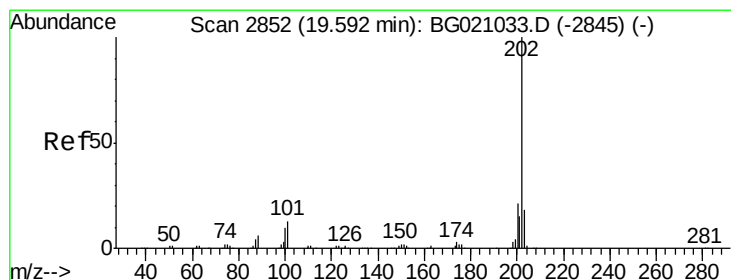
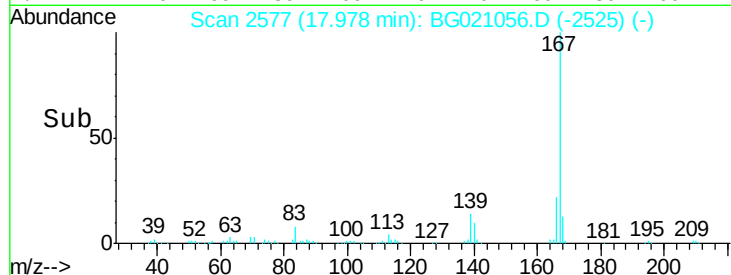
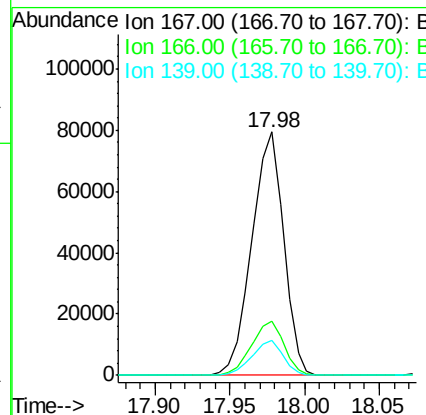
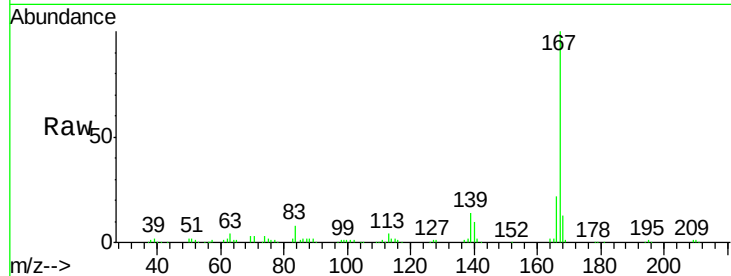
ClientSampleId :

40054+15(0-2)

Tot Ion:	167	Resp:	117082
Ion Ratio	Lower	Upper	
167	100		
166	22.2	17.5	26.3
139	14.2	10.3	15.5

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#74

Fluoranthene

Concen: 1127.91 ng

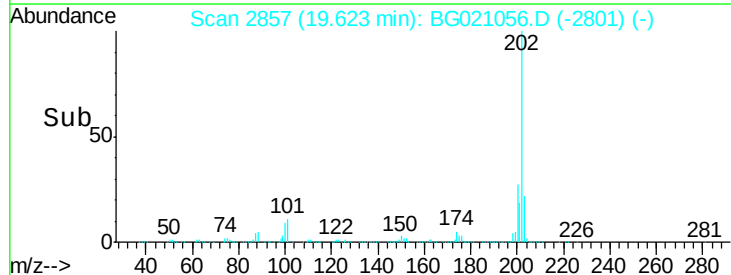
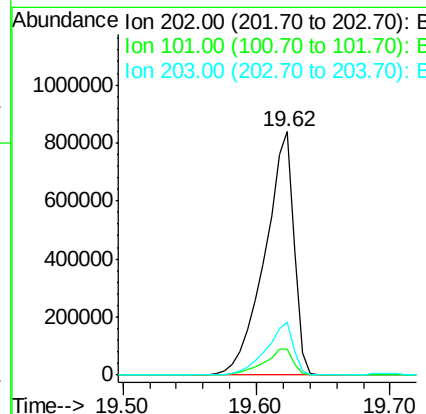
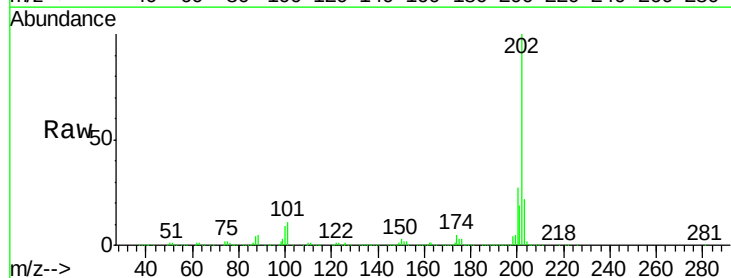
RT: 19.62 min Scan# 2857

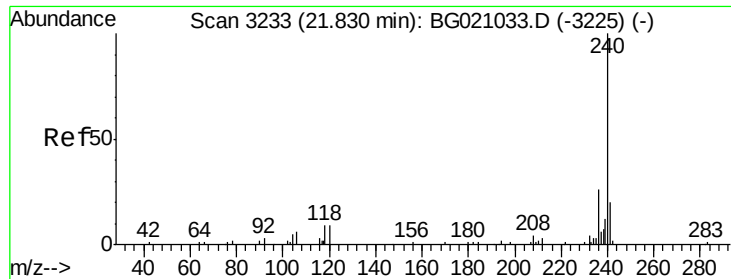
Delta R.T. 0.03 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	202	Resp:	1266186
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	32.5
203	21.9	0.0	37.6





#75

Chrvsene-d12

Concen: 20.00 ng

RT: 21.84 min Scan# 3235

Delta R.T. 0.01 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

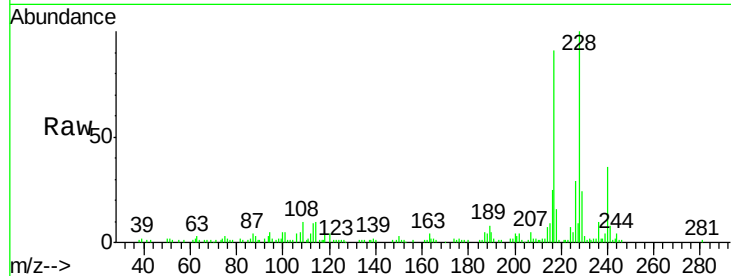
ClientSampleId :

40054+15(0-2)

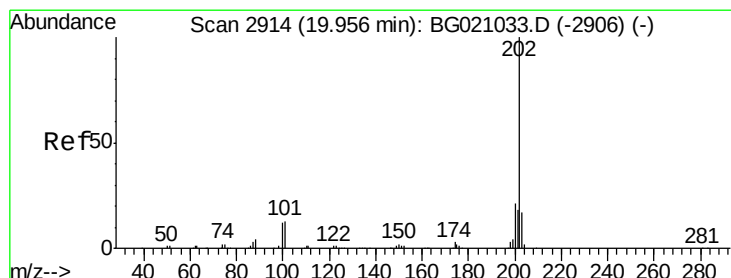
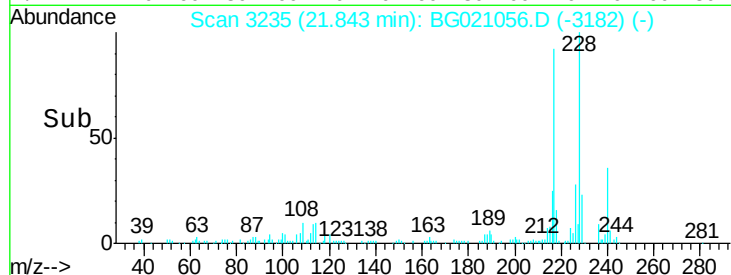
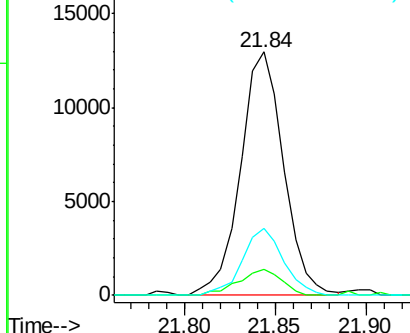
Tot Ion:	240	Resp:	21417
Ion Ratio	Lower	Upper	
240	100		
120	10.7	7.5	11.3
236	27.7	20.5	30.7

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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: 347.37 ng

RT: 19.98 min Scan# 2918

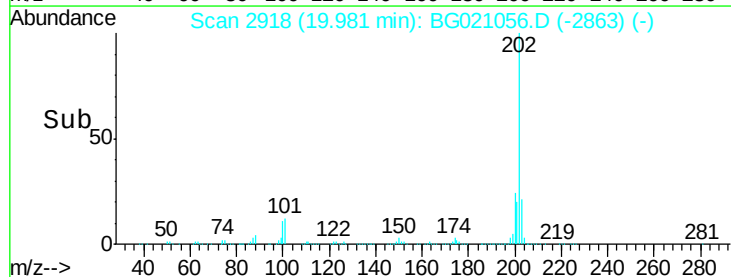
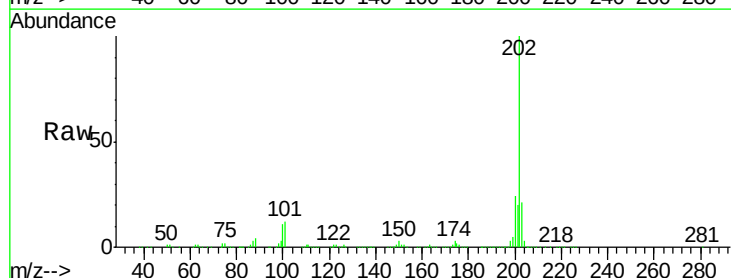
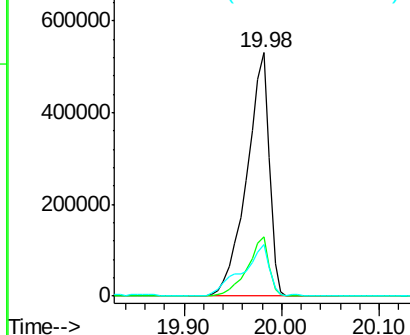
Delta R.T. 0.03 min

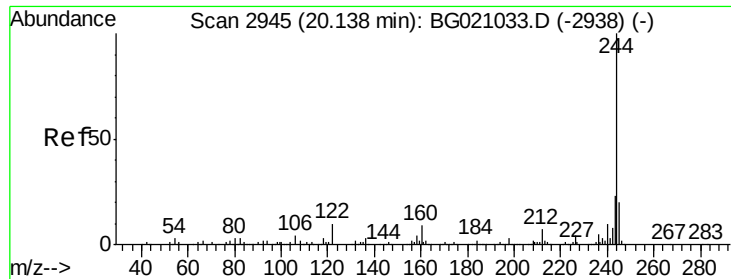
Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	202	Resp:	850019
Ion Ratio	Lower	Upper	
202	100		
200	24.3	16.6	25.0
203	21.4	13.8	20.8#

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: 38.44 ng

RT: 20.14 min Scan# 2945

Delta R.T. 0.00 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

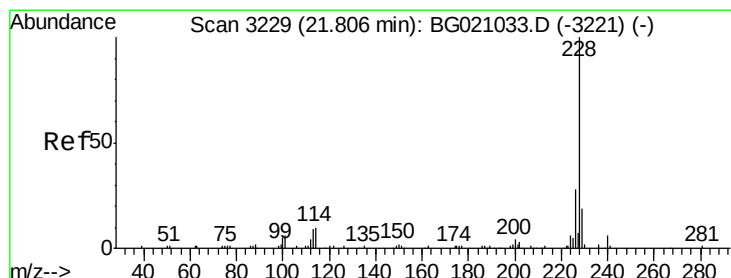
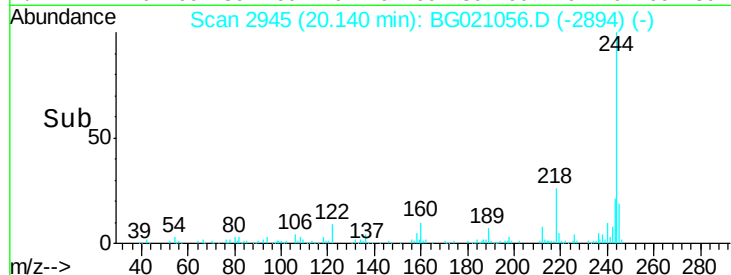
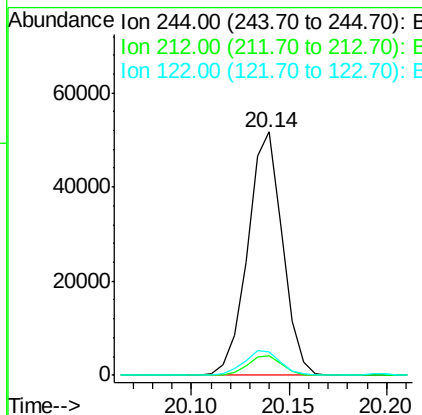
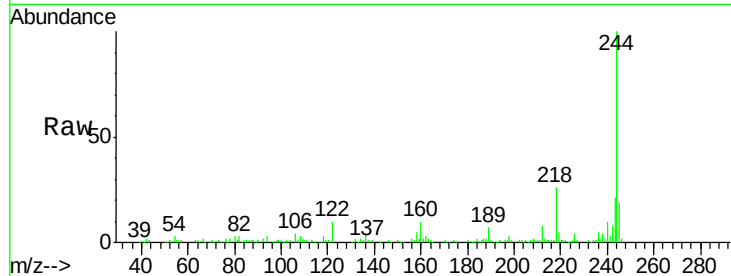
ClientSampleId :

40054+15(0-2)

Tot Ion:	244	Resp:	63441
Ion Ratio	Lower	Upper	
244	100		
212	8.0	5.8	8.6
122	9.6	8.3	12.5

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#80

Benzo(a)anthracene

Concen: 298.58 ng

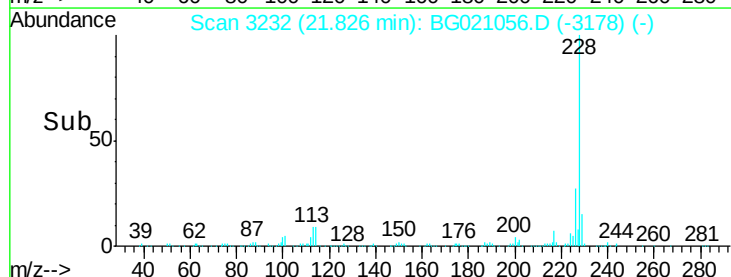
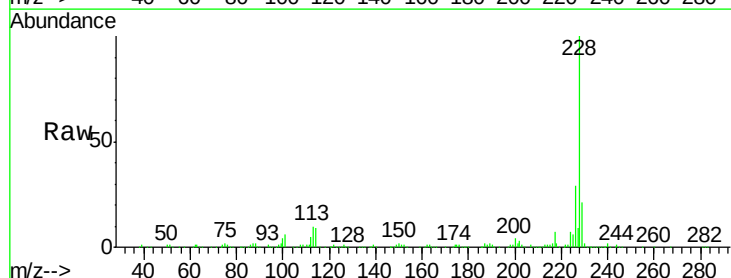
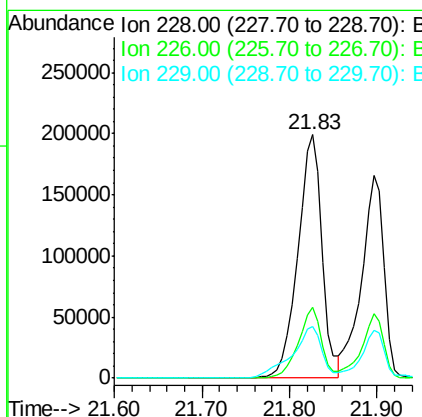
RT: 21.83 min Scan# 3232

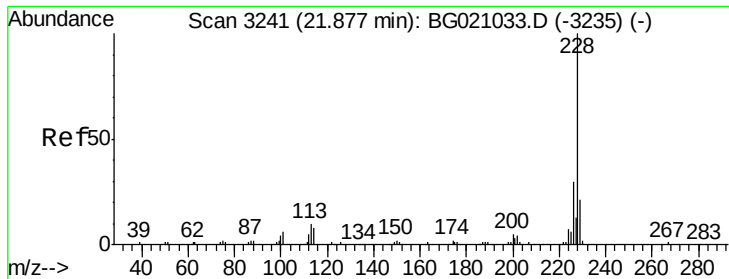
Delta R.T. 0.02 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	228	Resp:	383457
Ion Ratio	Lower	Upper	
228	100		
226	29.0	22.7	34.1
229	21.3	15.5	23.3





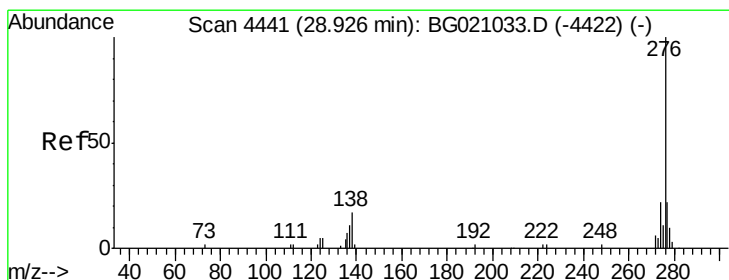
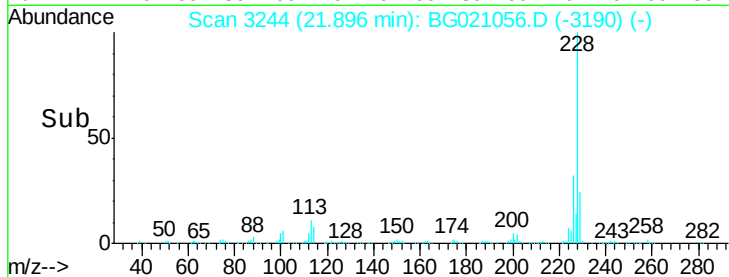
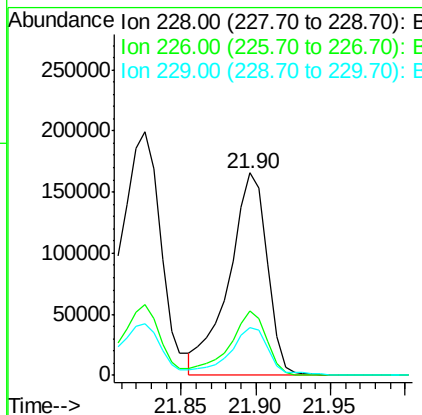
#82
Chrysene
Concen: 246.80 ng
RT: 21.90 min Scan# 3244
Delta R.T. 0.02 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)

Tot Ion:	228	Resp:	295717
Ion Ratio	Lower	Upper	
228	100		
226	31.7	23.7	35.5
229	23.9	16.7	25.1

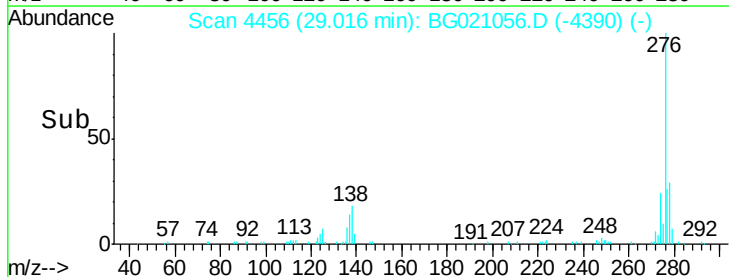
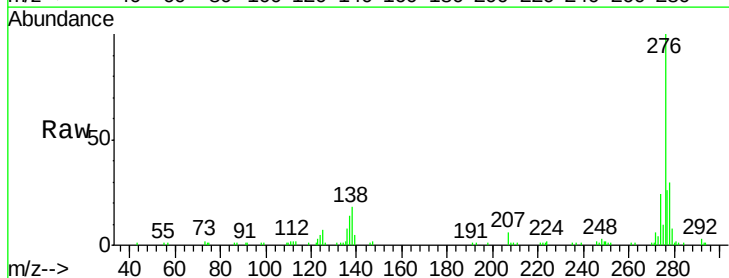
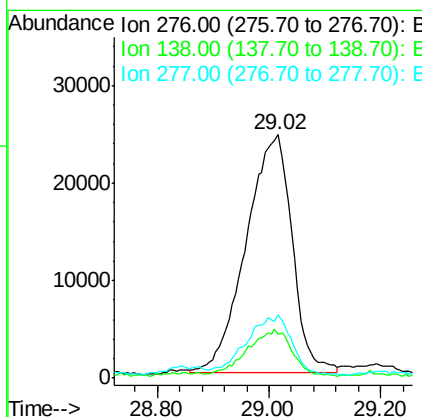
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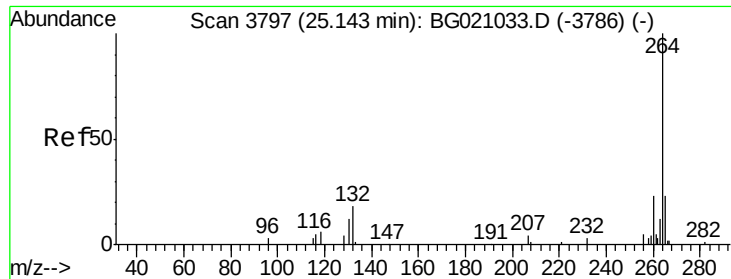
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 129.67 ng m
RT: 29.02 min Scan# 4456
Delta R.T. 0.09 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Tgt Ion:	276	Resp:	139733
Ion Ratio	Lower	Upper	
276	100		
138	0.0	0.0	0.0
277	0.0	0.0	0.0





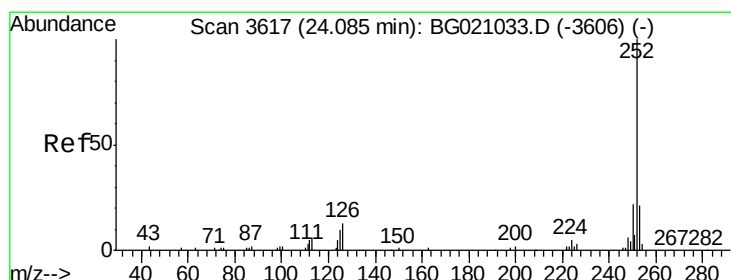
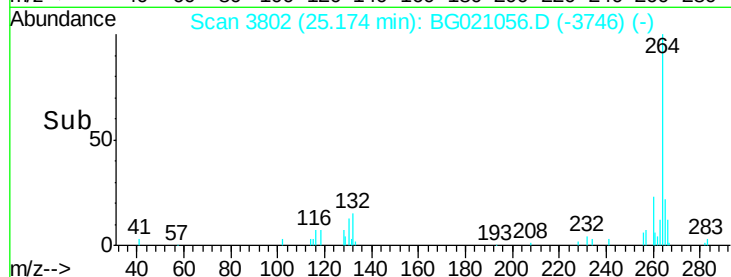
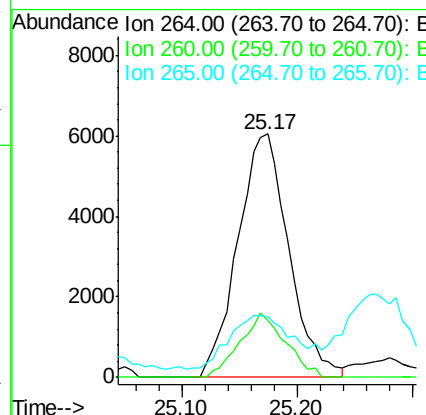
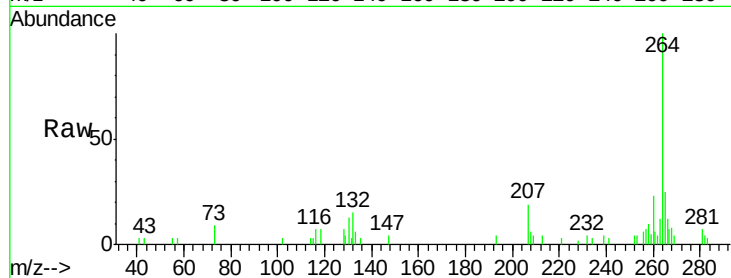
#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.17 min Scan# 3802
Delta R.T. 0.03 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.5	27.7
265	25.0	18.6	28.0

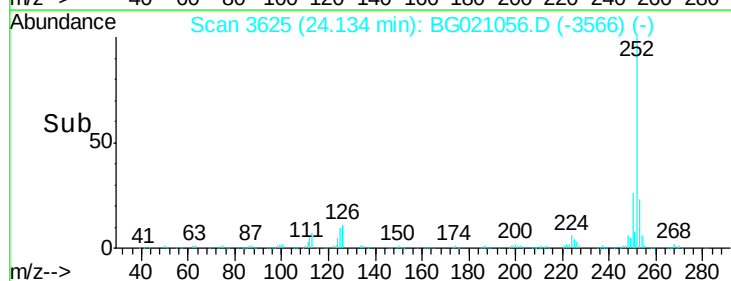
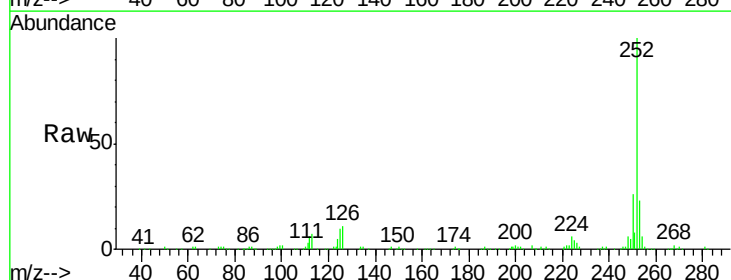
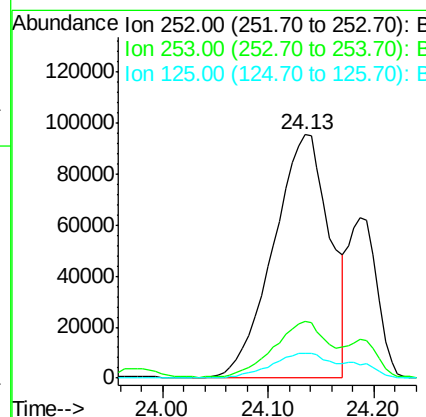
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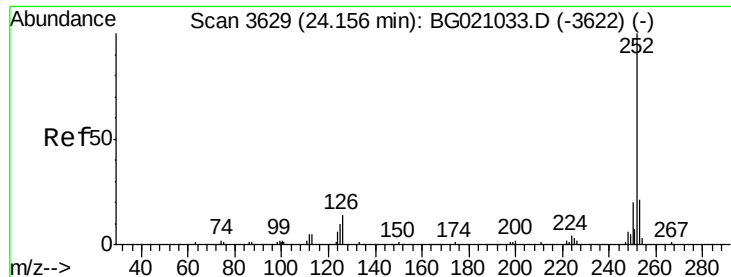
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#87
Benzo(b)fluoranthene
Concen: 288.34 ng
RT: 24.13 min Scan# 3625
Delta R.T. 0.05 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	16.8	25.2
125	10.2	8.2	12.2





#88

Benzo(k)fluoranthene

Concen: 103.16 ng/mL

RT: 24.19 min Scan# 3634

Delta R.T. 0.03 min

Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Instrument :

BNA_G

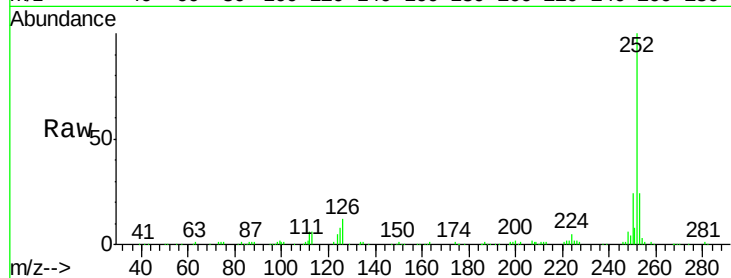
ClientSampleId :

40054+15(0-2)

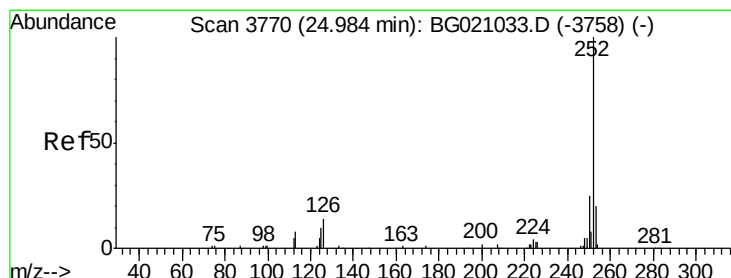
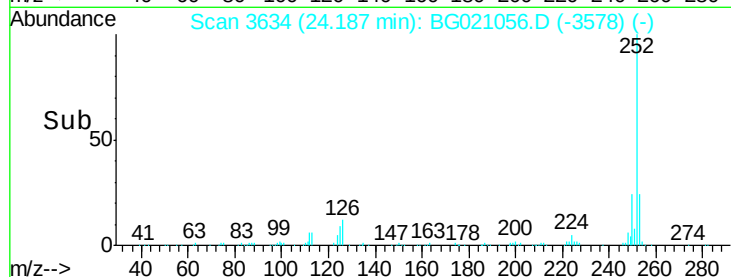
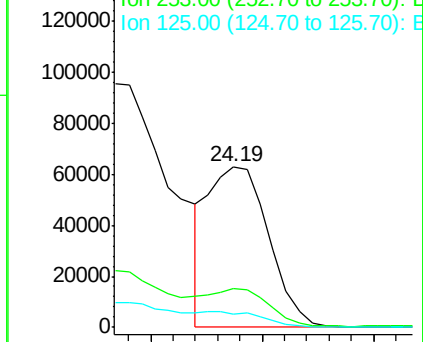
Tot Ion:	252	Resp:	118907
Ion Ratio	Lower	Upper	
252	100		
253	23.8	16.4	24.6
125	8.5	8.2	12.2

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 234.09 ng/mL

RT: 25.04 min Scan# 3780

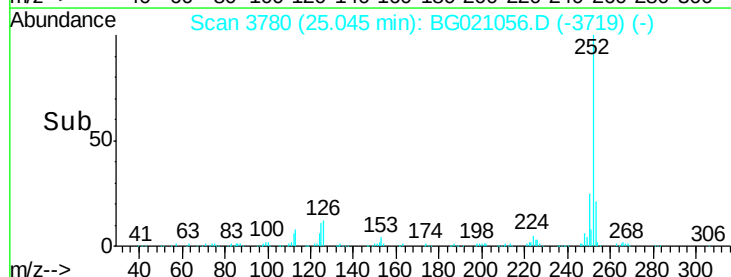
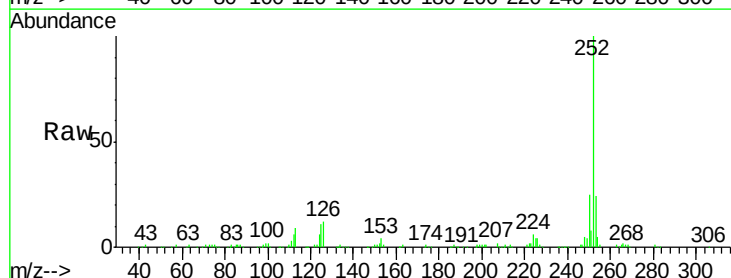
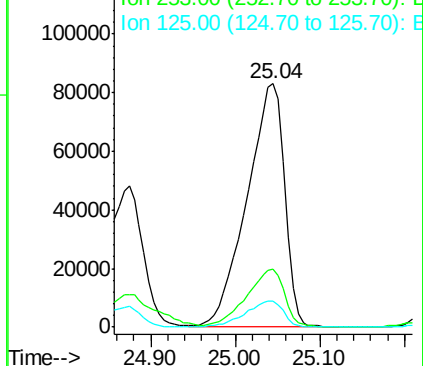
Delta R.T. 0.06 min

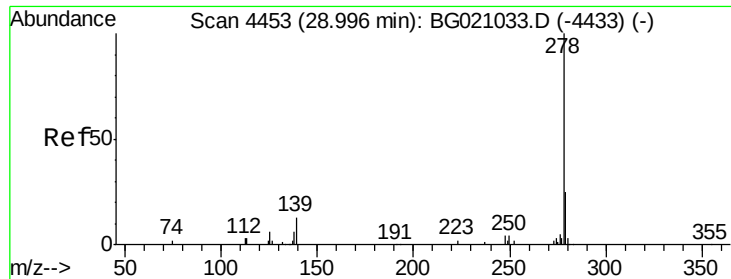
Lab File: BG021056.D

Acq: 24 Feb 2016 17:52

Tgt Ion:	252	Resp:	256276
Ion Ratio	Lower	Upper	
252	100		
253	23.9	15.8	23.8#
125	10.7	8.4	12.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





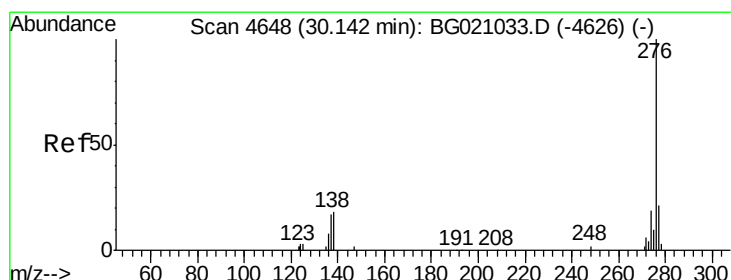
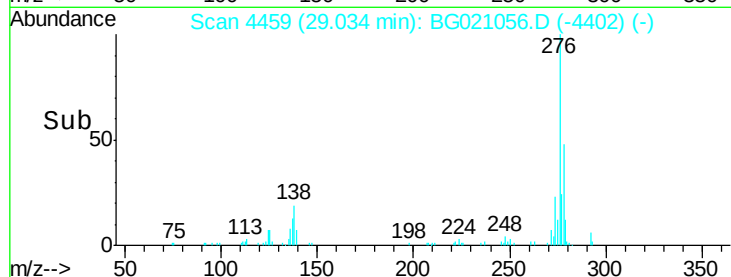
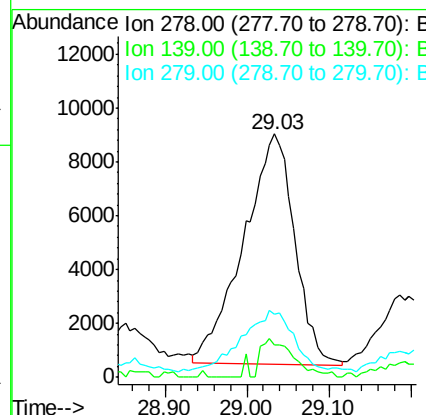
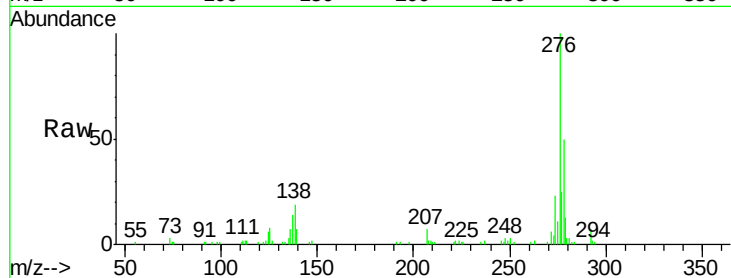
#90
Dibenzo(a,h)anthracene
Concen: 37.75 ng
RT: 29.03 min Scan# 4459
Delta R.T. 0.04 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Instrument :
BNA_G
ClientSampleId :
40054+15(0-2)

Tot Ion	Ratio	Lower	Upper
278	100		
139	13.2	10.6	15.8
279	26.0	19.7	29.5

Manual Integrations
APPROVED

Sohil
2/25/2016 2:40:10 PM



#91
Benzo(g,h,i)perylene
Concen: 122.93 ng
RT: 30.20 min Scan# 4658
Delta R.T. 0.06 min
Lab File: BG021056.D
Acq: 24 Feb 2016 17:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	16.6	25.0
138	20.9	14.6	21.8

