

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
 Data File : BG021178.D
 Acq On : 1 Mar 2016 8:08
 Operator : UM/SJ
 Sample : H1520-07RE
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

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

Manual Integrations
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 3/1/2016 6:50:41 PM

Quant Time: Mar 01 10:45:46 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 17:40:25 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	12080	20.00	ng	-0.01
21) Naphthalene-d8	10.96	136	61204	20.00	ng	-0.01
38) Acenaphthene-d10	14.76	164	35111	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	72202	20.00	ng	0.00
75) Chrysene-d12	21.77	240	87192	20.00	ng	0.00
86) Perylene-d12	25.06	264	76136	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	86270	113.53	ng	-0.01
7) Phenol-d6	7.30	99	166697	133.41	ng	0.00
23) Nitrobenzene-d5	9.31	82	123571	85.43	ng	-0.01
41) 2,4,6-Tribromophenol	16.24	330	12563	34.39	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	180932	73.17	ng	-0.01
78) Terphenyl-d14	20.09	244	241948	67.22	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.01	128	33063	10.36	ng	97
37) 2-Methylnaphthalene	12.60	142	29320	12.91	ng	# 95
45) 1,1'-Biphenyl	13.60	154	16617	5.75	ng	95
49) Dimethylphthalate	14.20	163	41568	13.28	ng	# 98
51) Acenaphthene	14.82	154	248880	106.83	ng	98
54) Dibenzofuran	15.15	168	243456	78.26	ng	# 89
57) Fluorene	15.80	166	313155	105.64	ng	99
70) Phenanthrene	17.57	178	2763502m	709.23	ng	
71) Anthracene	17.64	178	816239	204.72	ng	95
72) Carbazole	17.90	167	392036	110.88	ng	96
74) Fluoranthene	19.56	202	2793091	610.15	ng	80
77) Pylene	19.92	202	2304103	442.97	ng	# 80
80) Benzo(a)anthracene	21.76	228	1380070	267.34	ng	# 92
82) Chrysene	21.83	228	1126807m	230.33	ng	
85) Indeno(1,2,3-cd)pyrene	28.84	276	598859	106.76	ng	# 100
87) Benzo(b)fluoranthene	24.04	252	1388262	289.89	ng	94
88) Benzo(k)fluoranthene	24.09	252	517451m	107.89	ng	
89) Benzo(a)pyrene	24.93	252	1045107	225.71	ng	# 93
90) Dibenzo(a,h)anthracene	28.87	278	168357m	36.76	ng	
91) Benzo(a,h,i)perylene	30.02	276	507689	114.73	ng	93

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

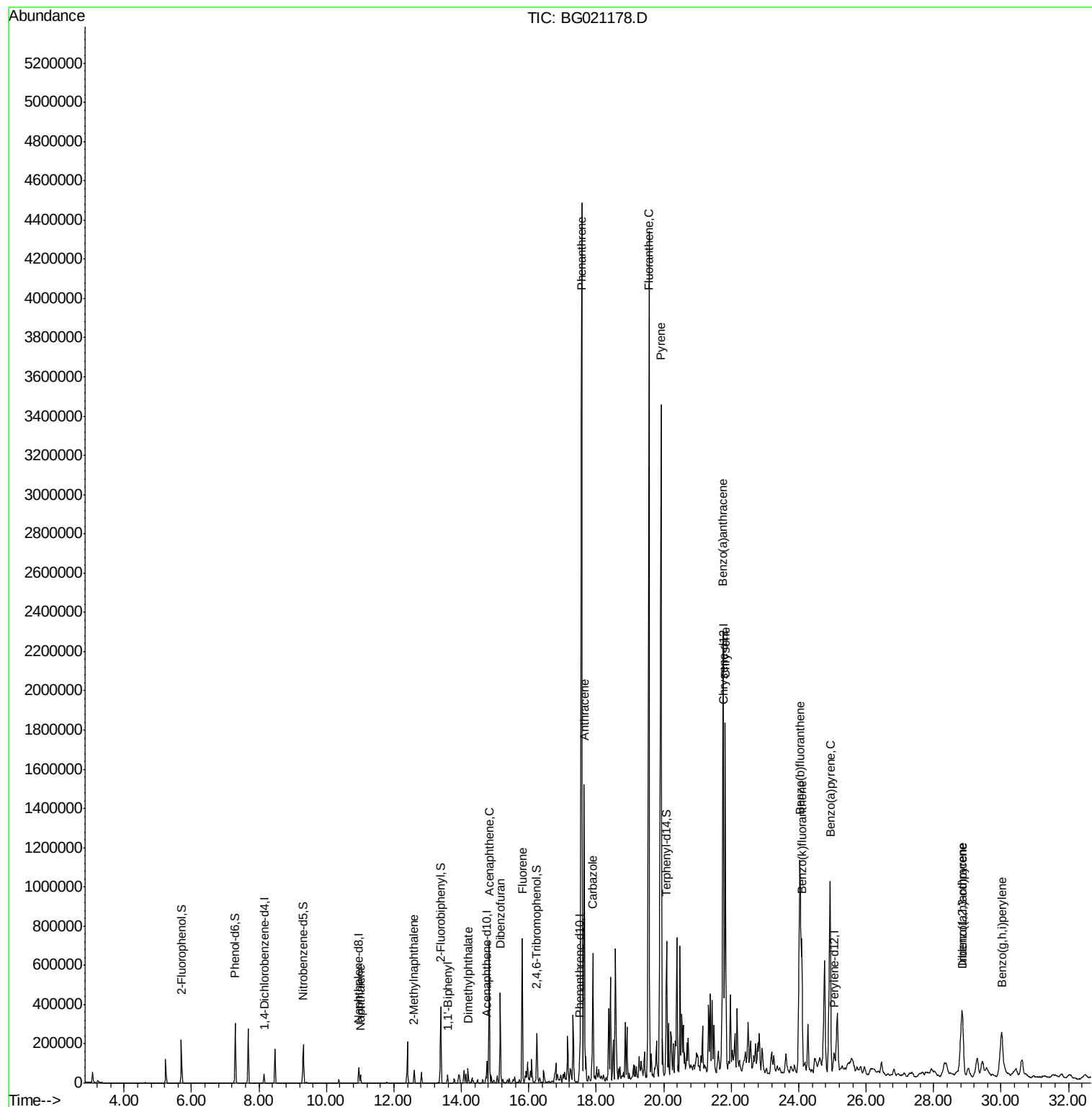
Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
Data File : BG021178.D
Acq On : 1 Mar 2016 8:08
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Sample : H1520-07RE
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ALS Vial : 24 Sample Multiplier: 1

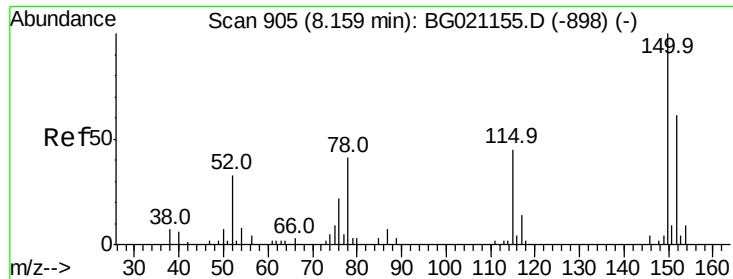
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QLast Update : Mon Feb 29 17:40:25 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.15 min Scan# 904

Delta R.T. -0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

40054+15(0-2)RE

Tot Ion:152 Resp: 12080

Ion Ratio Lower Upper

152 100

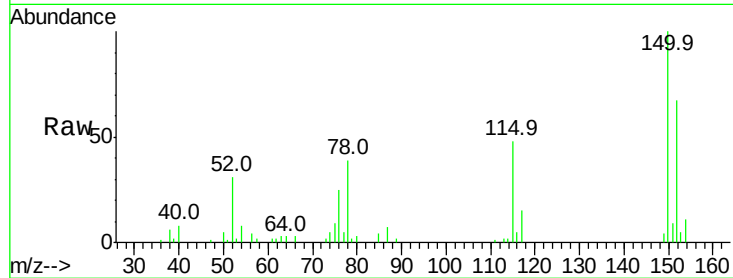
150 149.1 123.4 185.2

115 71.5 43.3 64.9#

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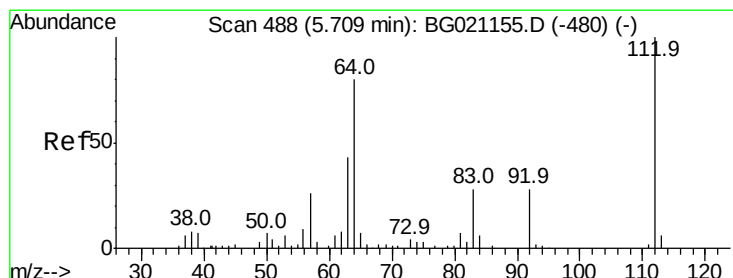
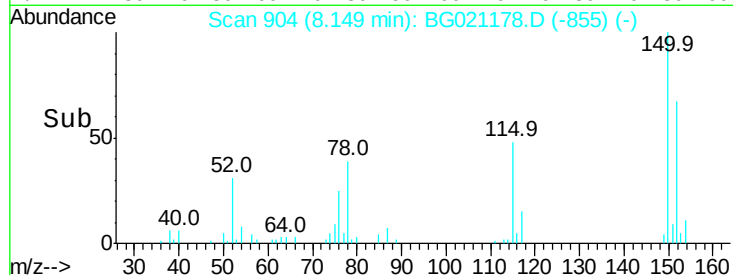
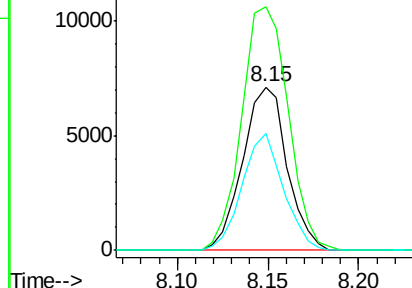
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 113.53 ng

RT: 5.70 min Scan# 487

Delta R.T. -0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

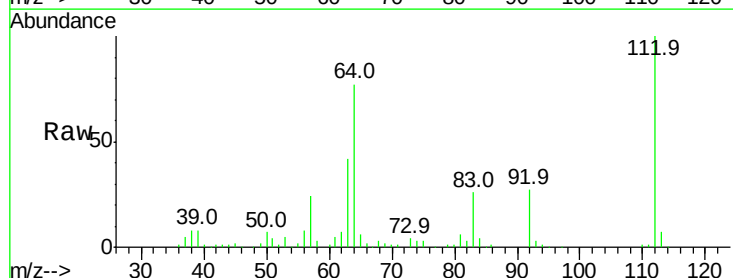
Tgt Ion:112 Resp: 86270

Ion Ratio Lower Upper

112 100

64 76.7 42.6 63.8#

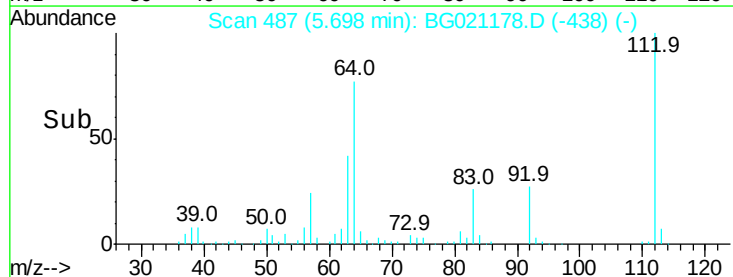
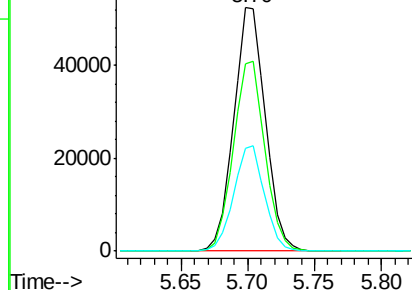
63 42.3 21.7 32.5#

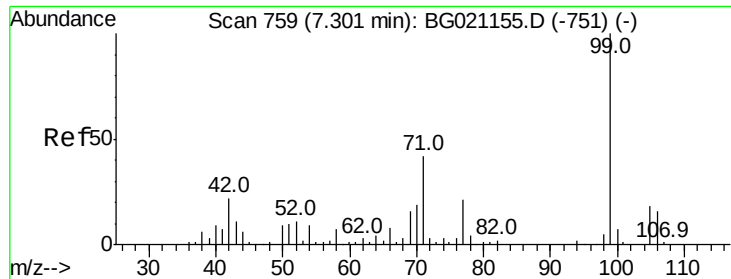


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 133.41 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.00 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

40054+15(0-2)RE

Tot Ion: 99 Resp: 166697

Ion Ratio Lower Upper

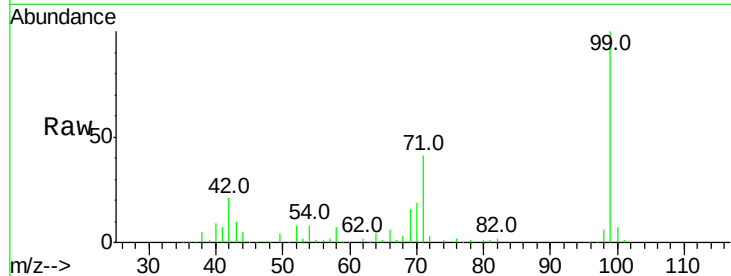
99 100

42 20.9 13.2 19.8#

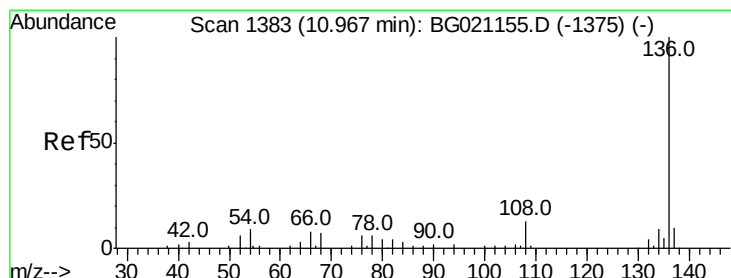
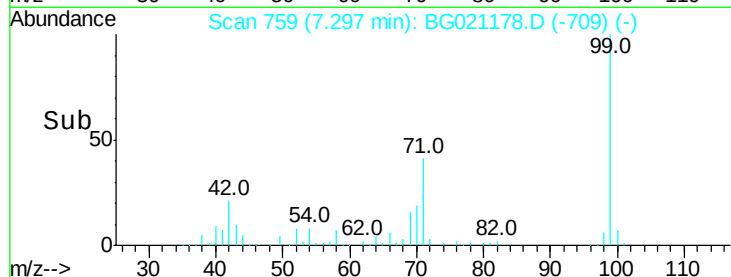
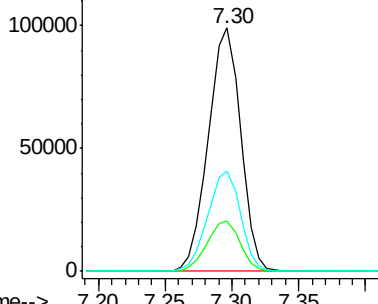
71 41.0 25.2 37.8#

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Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.96 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion: 136 Resp: 61204

Ion Ratio Lower Upper

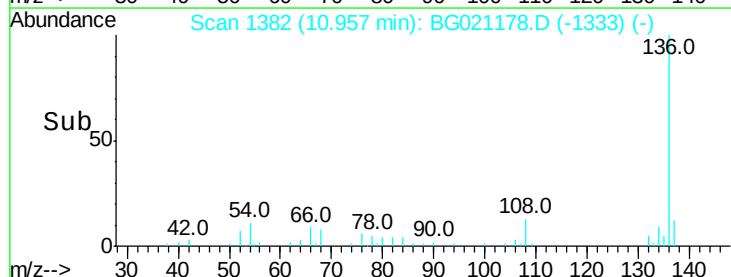
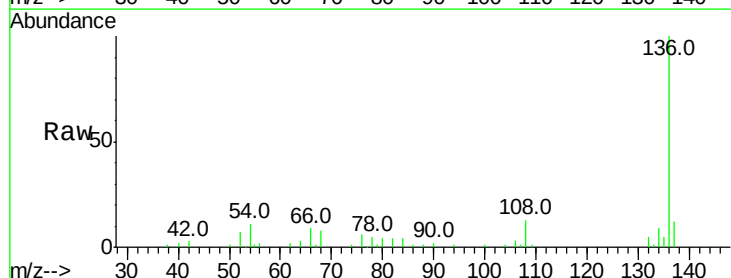
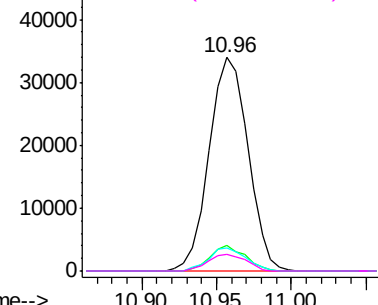
136 100

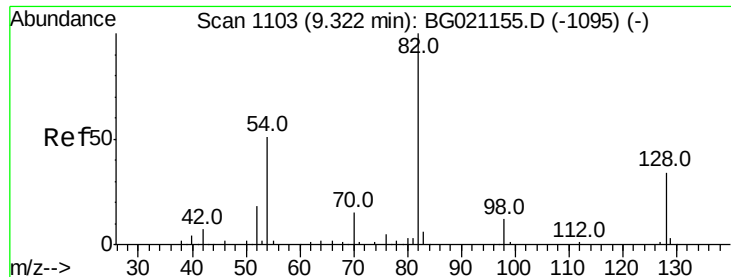
137 11.8 8.8 13.2

54 10.7 6.9 10.3#

68 7.7 5.8 8.6

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





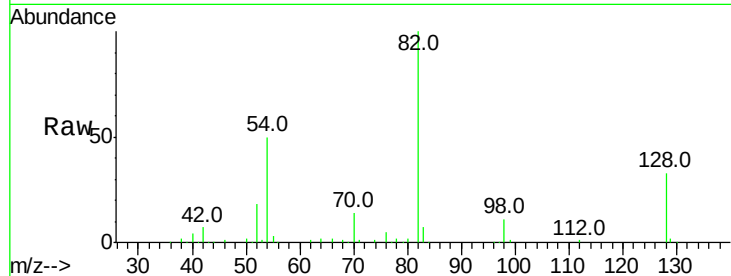
#23
 Nitrobenzene-d5
 Concen: 85.43 ng
 RT: 9.31 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: BG021178.D
 Acq: 1 Mar 2016 8:08

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

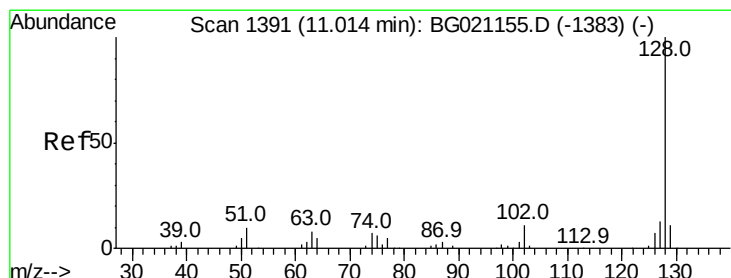
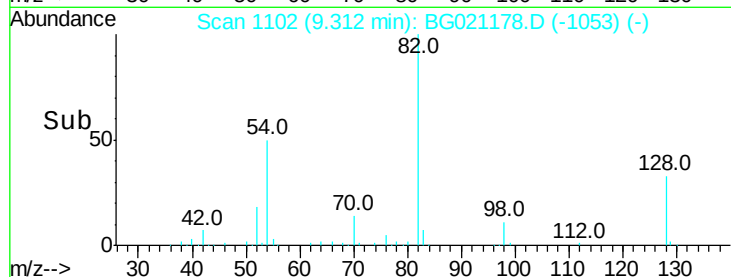
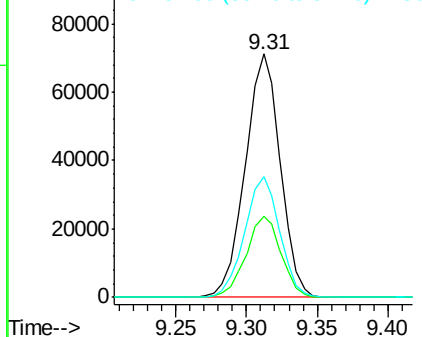
Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	33.0	36.3	54.5#
54	49.7	37.6	56.4

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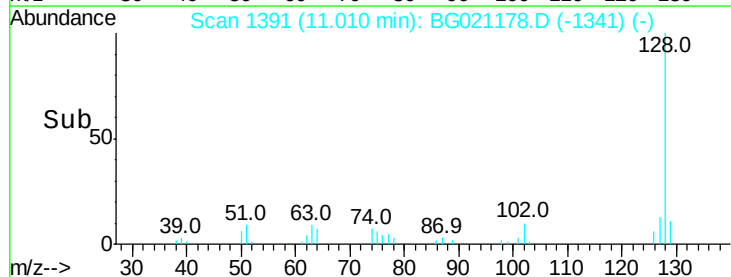
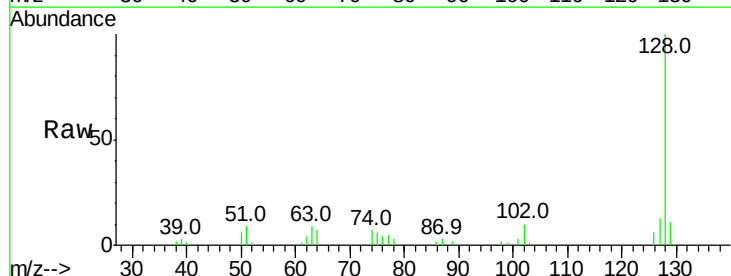
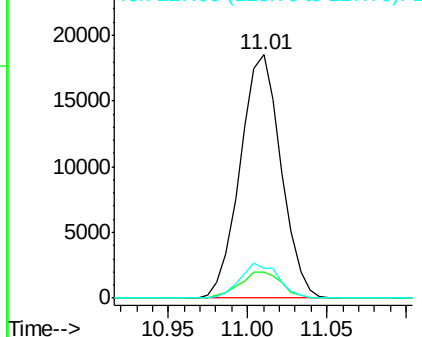
Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

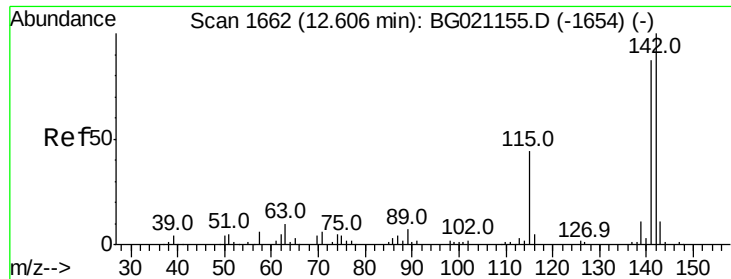


#31
 Naphthalene
 Concen: 10.36 ng
 RT: 11.01 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: BG021178.D
 Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.6	9.4	14.2
127	12.5	10.8	16.2

Abundance Ion 128.00 (127.70 to 128.70): BGC
 Ion 129.00 (128.70 to 129.70): BGC
 Ion 127.00 (126.70 to 127.70): BGC





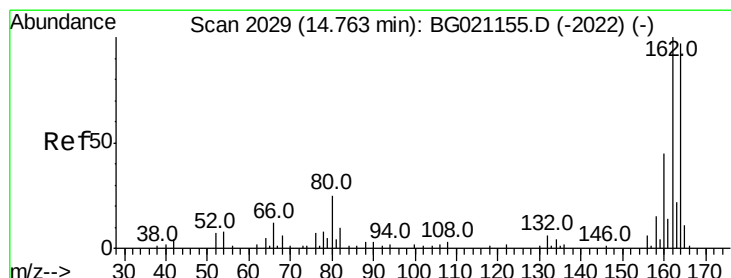
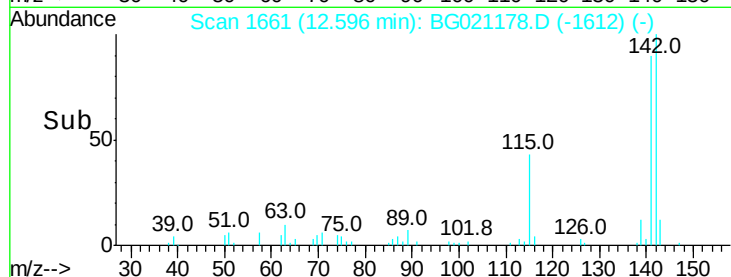
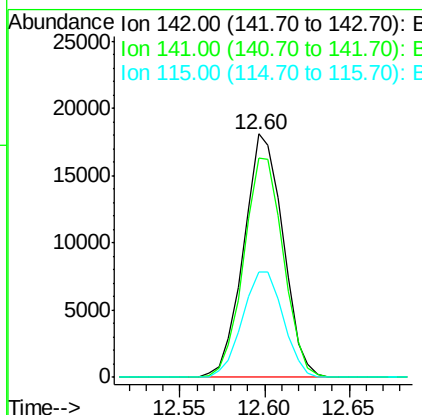
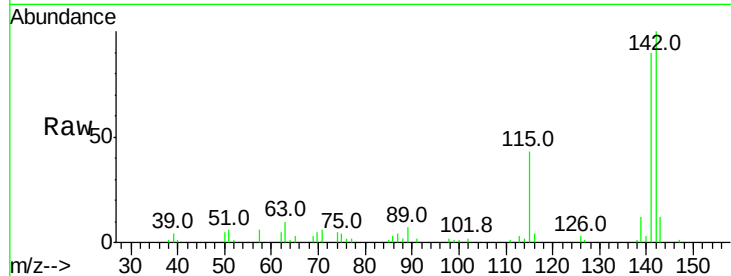
#37
2-Methylnaphthalene
Concen: 12.91 ng
RT: 12.60 min Scan# 1661
Delta R.T. -0.01 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	43.4	26.2	39.4

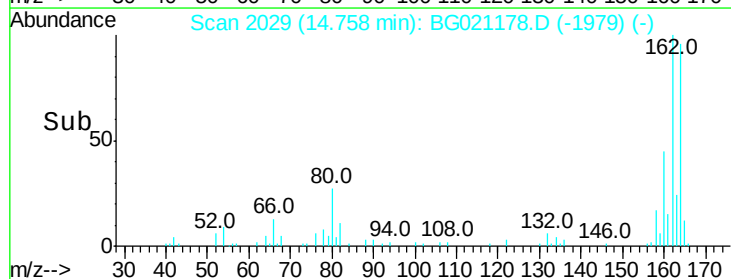
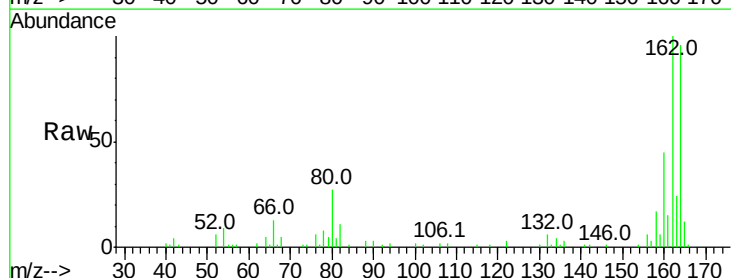
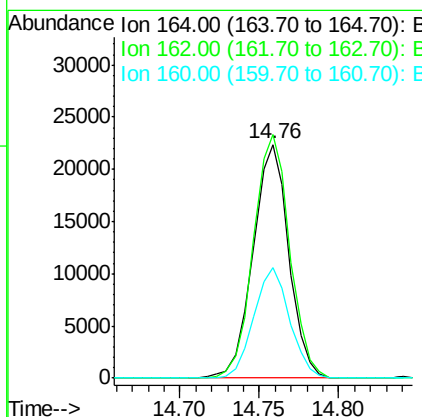
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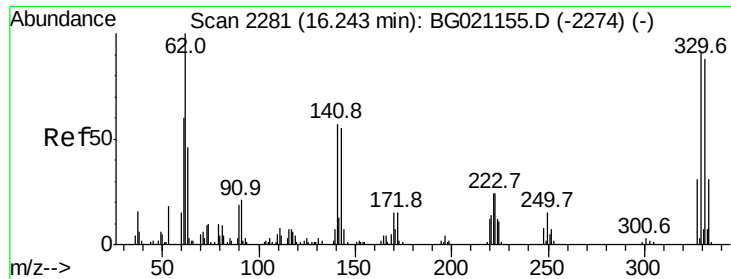
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.76 min Scan# 2029
Delta R.T. -0.00 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	80.6	120.8
160	47.1	36.5	54.7





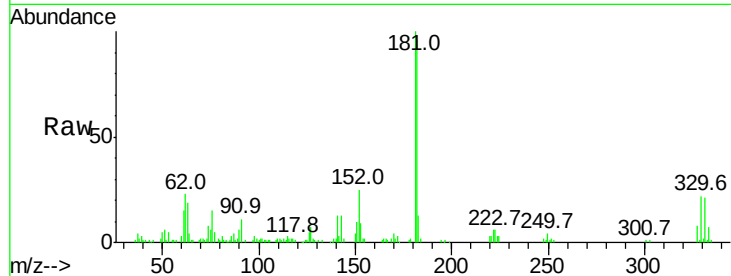
#41
 2,4,6-Tribromophenol
 Concen: 34.39 ng
 RT: 16.24 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: BG021178.D
 Acq: 1 Mar 2016 8:08

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

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.1	77.4	116.0	
141	66.2	35.3	52.9#	

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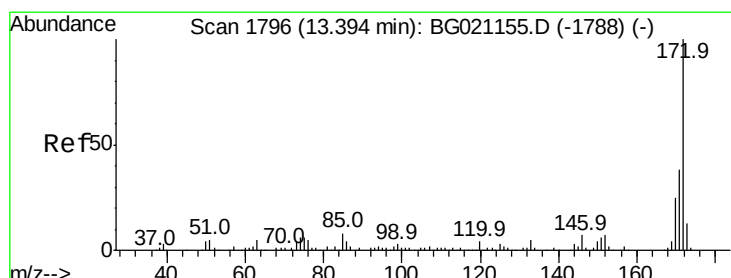
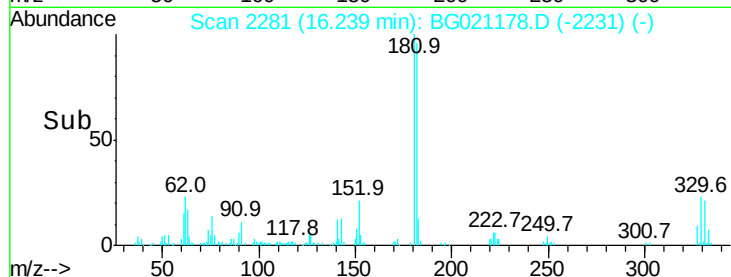
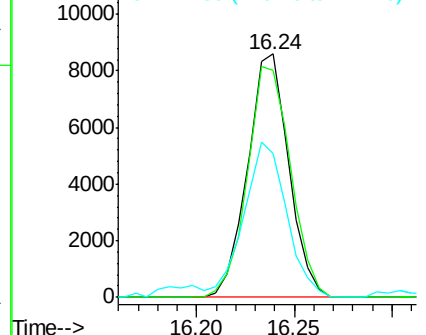


Abundance

Ion 329.80 (329.50 to 330.50): E

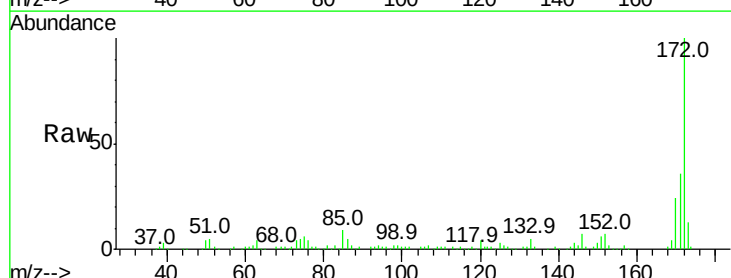
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 73.17 ng
 RT: 13.38 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: BG021178.D
 Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.4	29.4	44.0	
170	24.2	19.8	29.8	

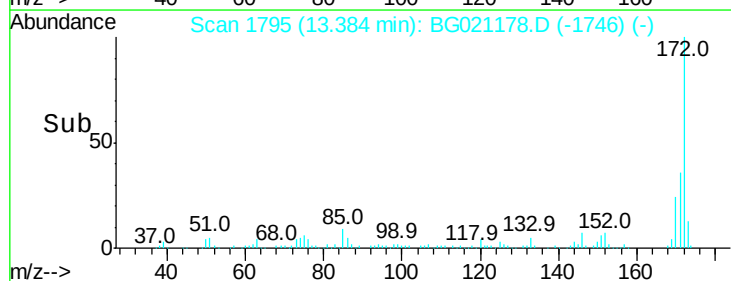
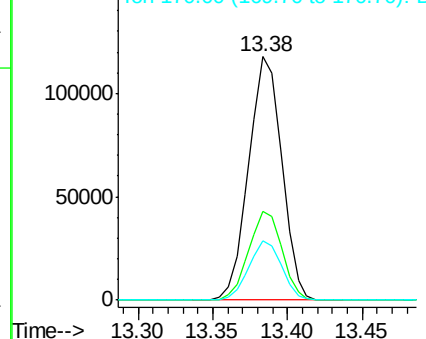


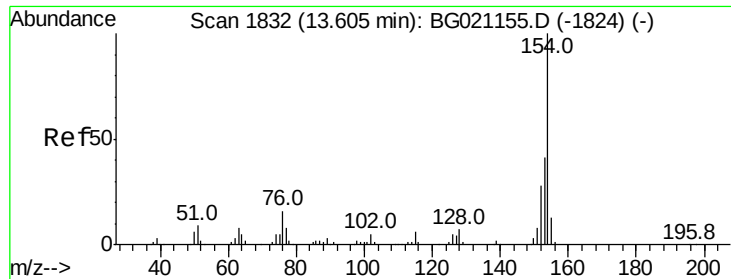
Abundance

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: 5.75 ng

RT: 13.60 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

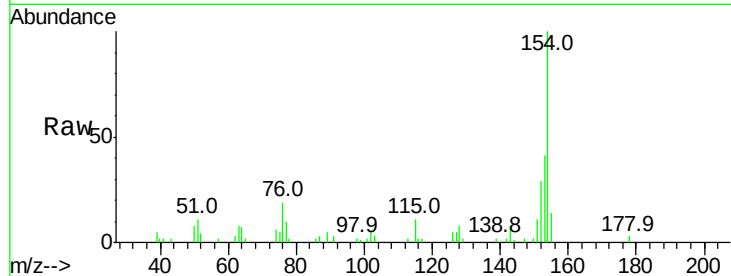
ClientSampleId :

40054+15(0-2)RE

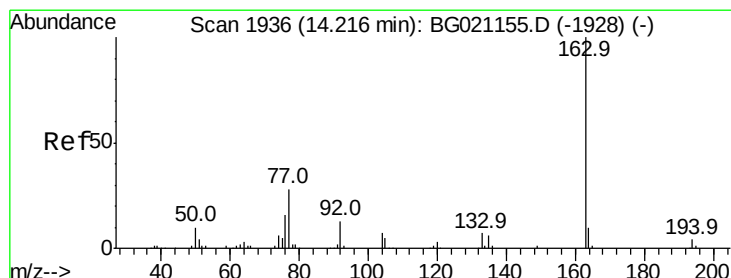
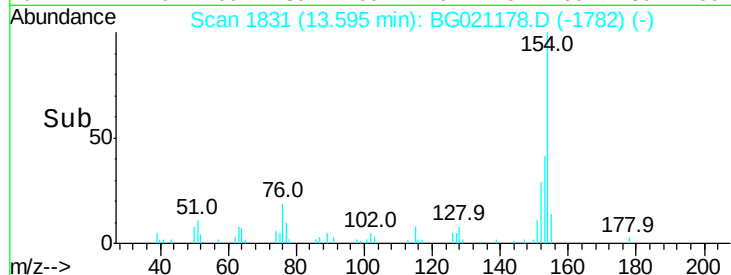
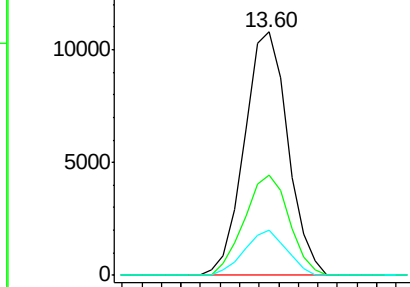
Tot Ion:	154	Resp:	16617
Ion Ratio		Lower	Upper
154	100		
153	41.3	19.8	59.8
76	18.7	0.0	33.6

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BGC



#49

Dimethylphthalate

Concen: 13.28 ng

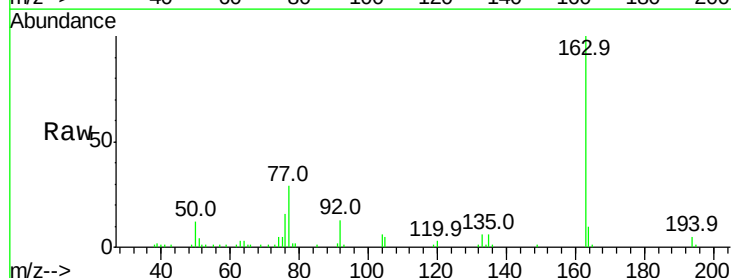
RT: 14.20 min Scan# 1934

Delta R.T. -0.02 min

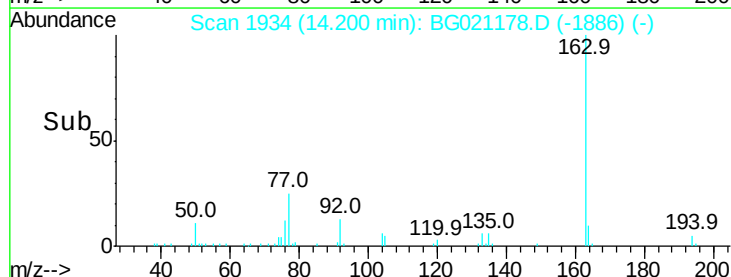
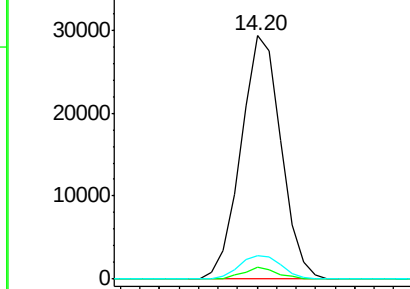
Lab File: BG021178.D

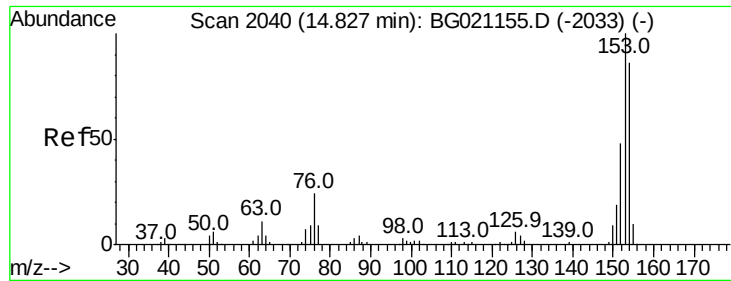
Acq: 1 Mar 2016 8:08

Tgt Ion:	163	Resp:	41568
Ion Ratio		Lower	Upper
163	100		
194	4.8	2.8	4.2#
164	9.6	7.9	11.9



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 106.83 ng

RT: 14.82 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BG021178.D

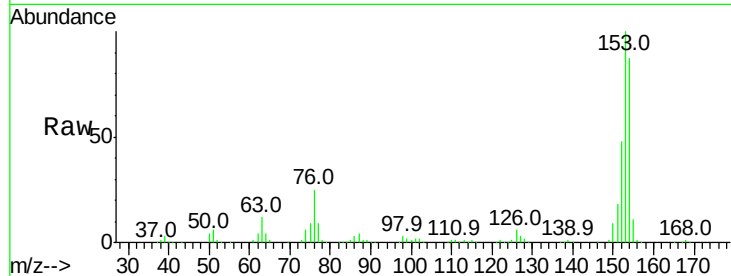
Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

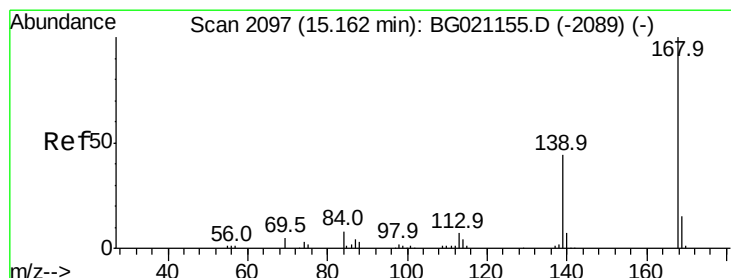
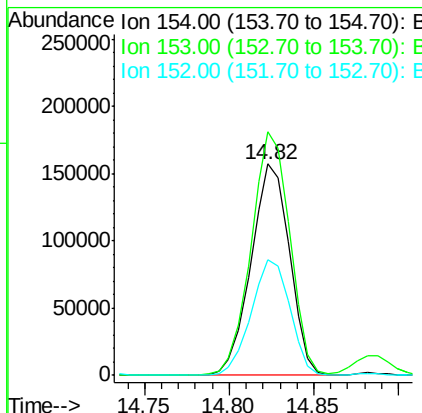
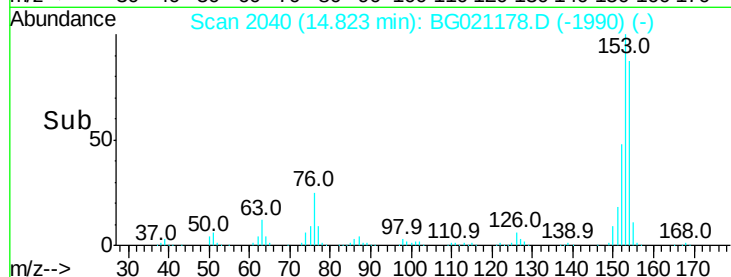
40054+15(0-2)RE



Tot Ion	154	Resp	248880
Ion Ratio	Lower	Upper	
154	100		
153	115.3	94.2	141.2
152	55.1	42.9	64.3

Manual Integrations
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#54

Dibenzofuran

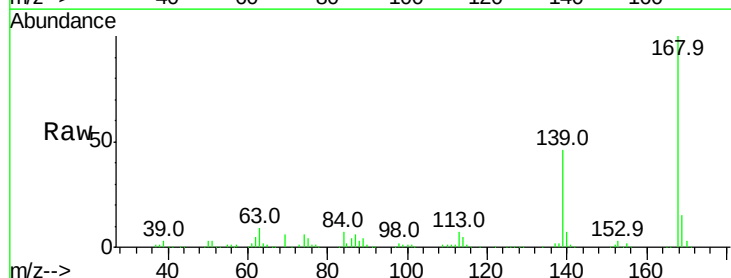
Concen: 78.26 ng

RT: 15.15 min Scan# 2096

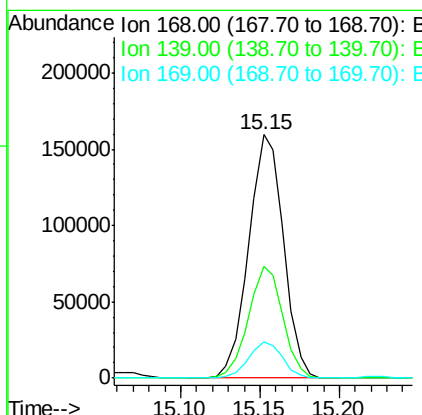
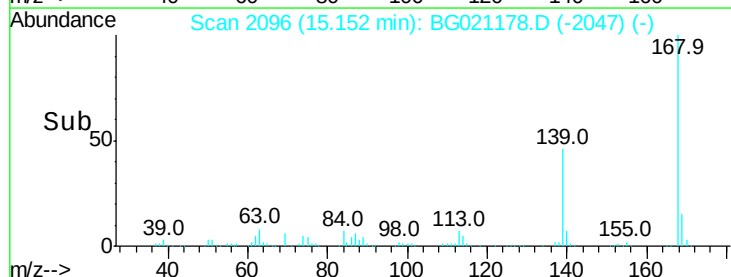
Delta R.T. -0.01 min

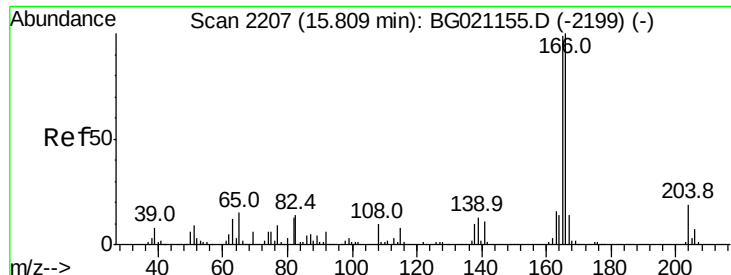
Lab File: BG021178.D

Acq: 1 Mar 2016 8:08



Tgt Ion	168	Resp	243456
Ion Ratio	Lower	Upper	
168	100		
139	45.8	29.8	44.8#
169	14.7	11.4	17.2





#57

Fluorene

Concen: 105.64 ng

RT: 15.80 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

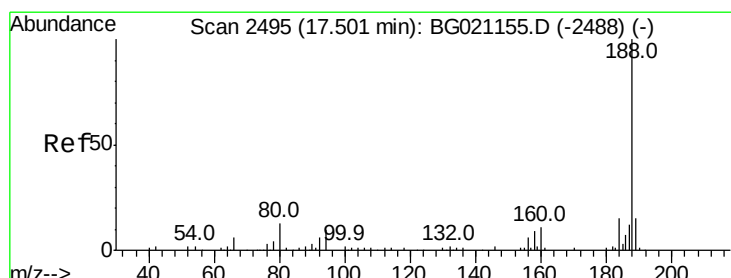
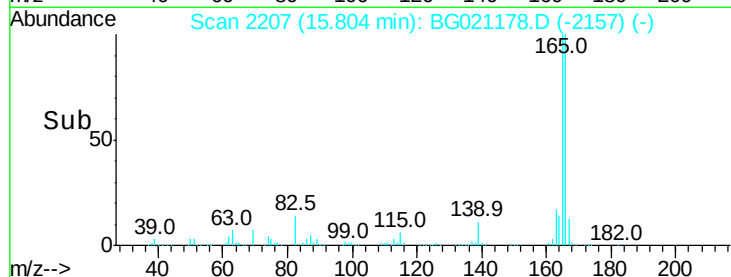
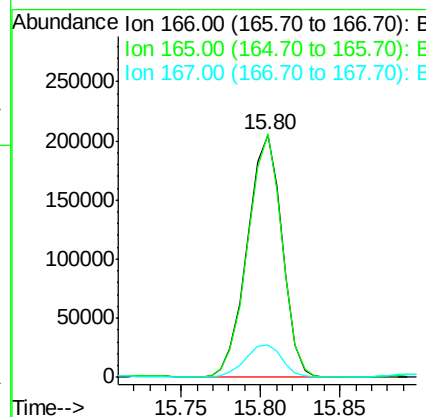
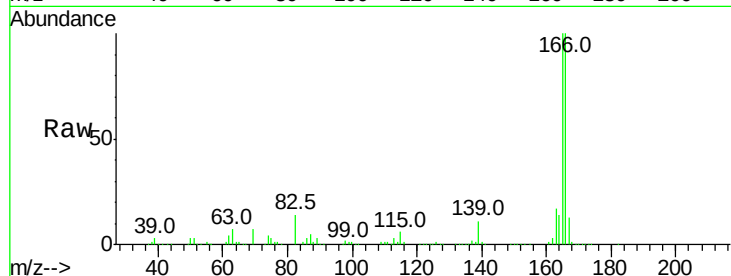
ClientSampleId :

40054+15(0-2)RE

Tot Ion:	166	Resp:	313155
Ion Ratio	Lower	Upper	
166	100		
165	100.3	81.3	121.9
167	13.5	10.6	16.0

Manual Integrations
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3/1/2016 6:50:41 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

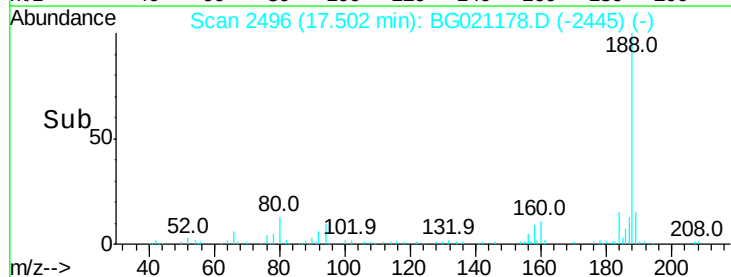
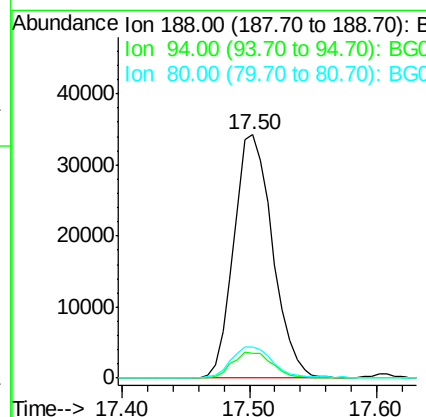
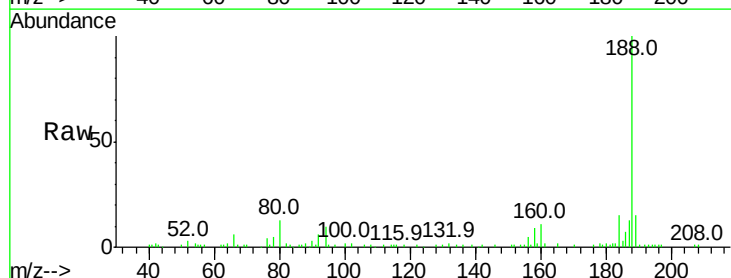
RT: 17.50 min Scan# 2496

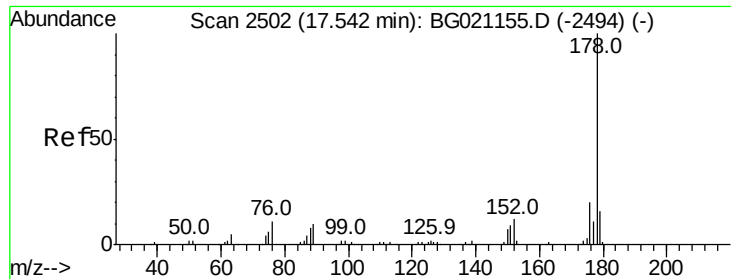
Delta R.T. 0.00 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion:	188	Resp:	72202
Ion Ratio	Lower	Upper	
188	100		
94	10.4	8.2	12.4
80	13.0	9.2	13.8





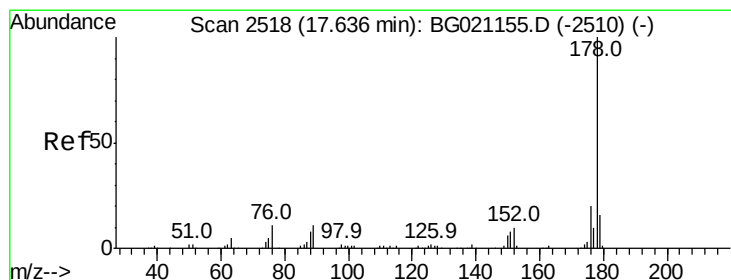
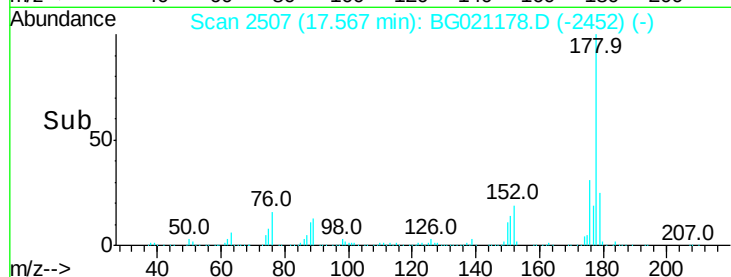
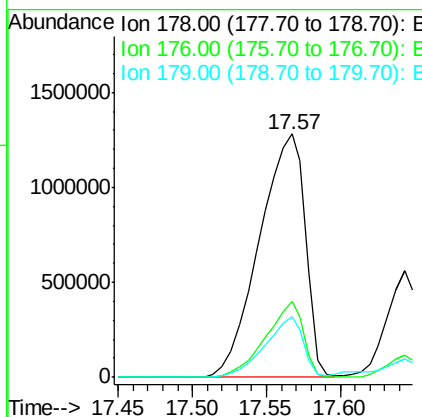
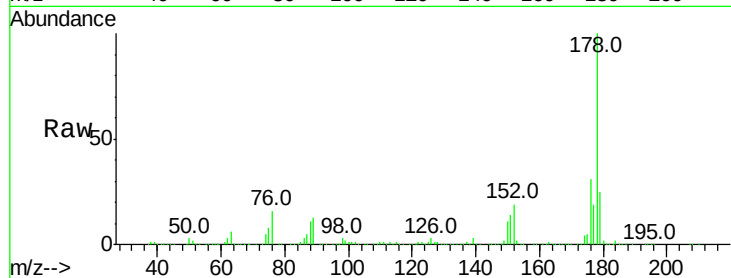
#70
Phenanthrene
Concen: 709.23 ng/mL
RT: 17.57 min Scan# 2507
Delta R.T. 0.03 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	31.1	16.2	24.4
179	25.0	12.9	19.3

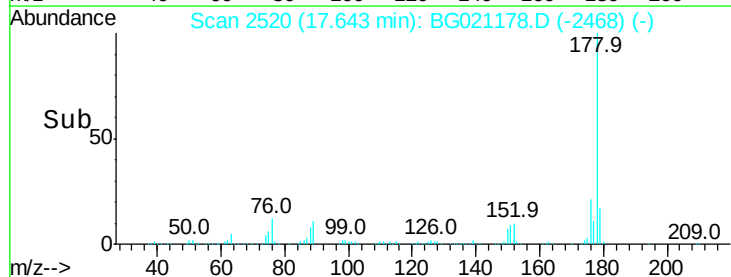
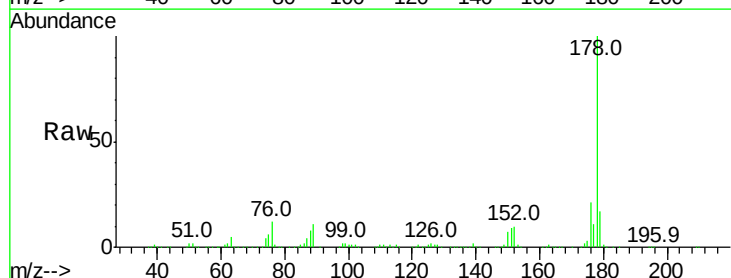
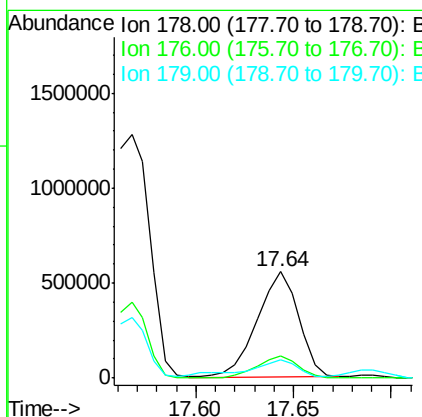
Manual Integrations
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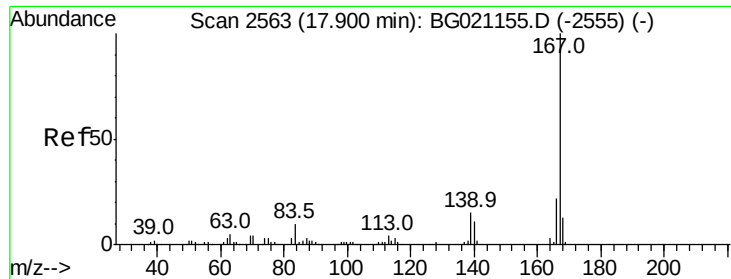
Sohil
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#71
Anthracene
Concen: 204.72 ng/mL
RT: 17.64 min Scan# 2520
Delta R.T. 0.01 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.3	14.8	22.2
179	17.3	12.6	19.0





#72

Carbazole

Concen: 110.88 ng

RT: 17.90 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BG021178.D

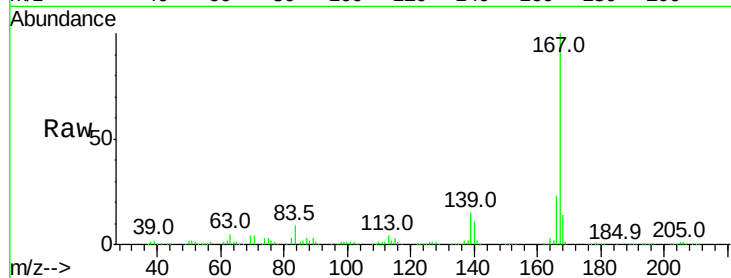
Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

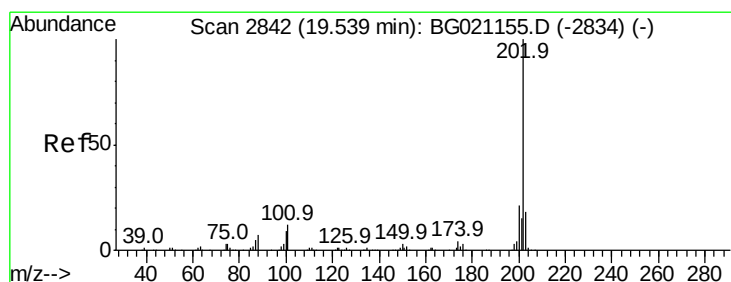
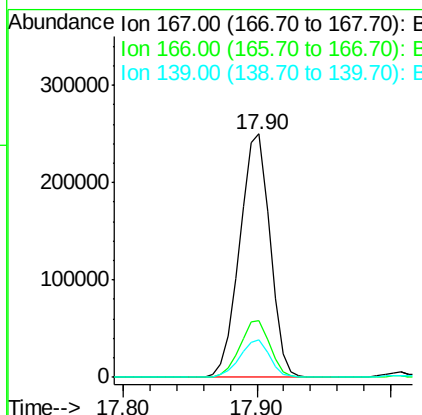
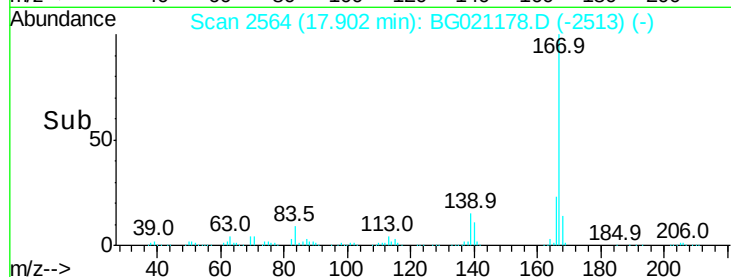
40054+15(0-2)RE



Tot Ion:	167	Resp:	392036
Ion Ratio	Lower	Upper	
167	100		
166	23.4	17.5	26.3
139	15.2	10.3	15.5

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#74

Fluoranthene

Concen: 610.15 ng

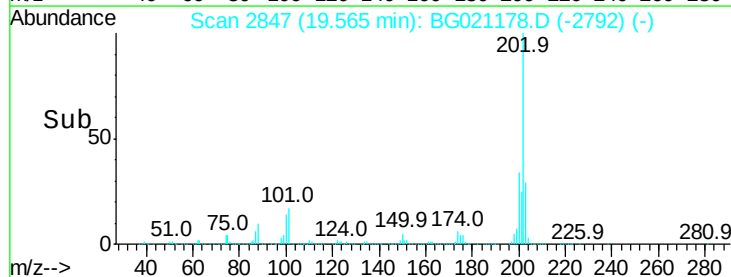
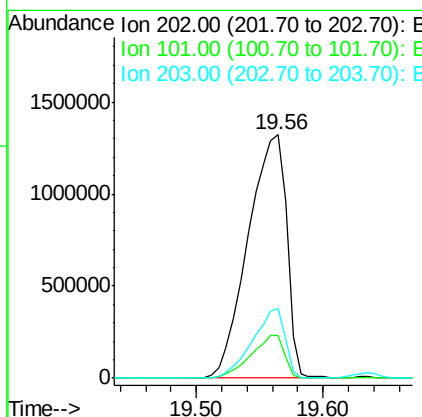
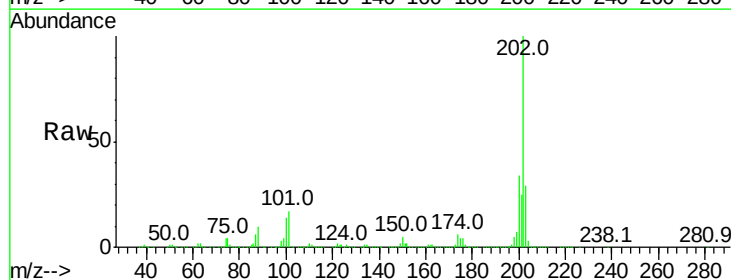
RT: 19.56 min Scan# 2847

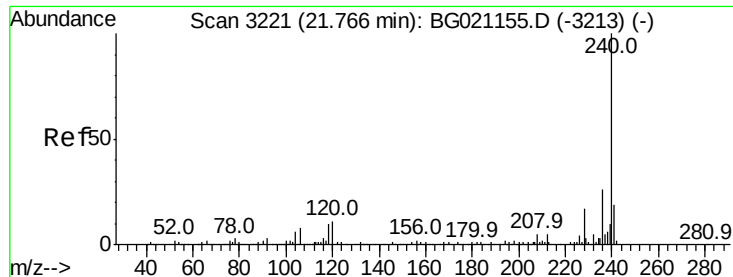
Delta R.T. 0.03 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion:	202	Resp:	2793091
Ion Ratio	Lower	Upper	
202	100		
101	17.4	0.0	32.5
203	28.7	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3223

Delta R.T. 0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

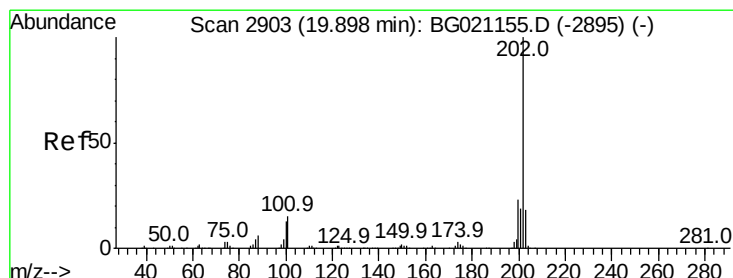
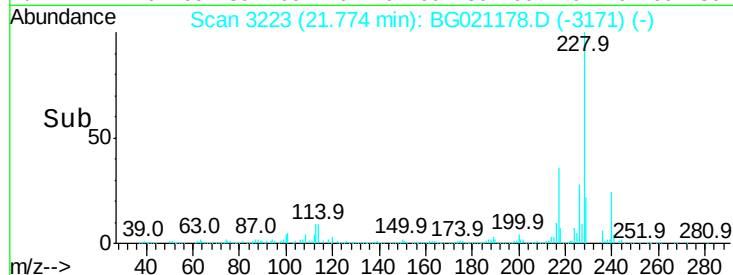
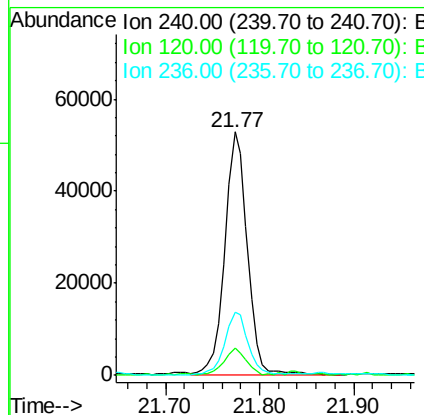
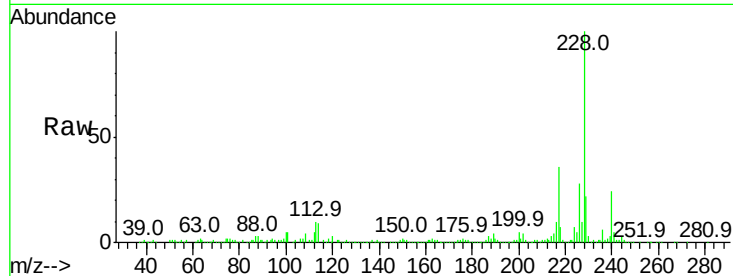
ClientSampleId :

40054+15(0-2)RE

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.5	11.3#
236	26.1	20.5	30.7

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#77

Pyrene

Concen: 442.97 ng

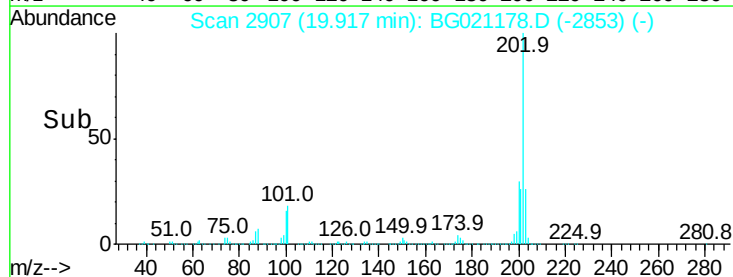
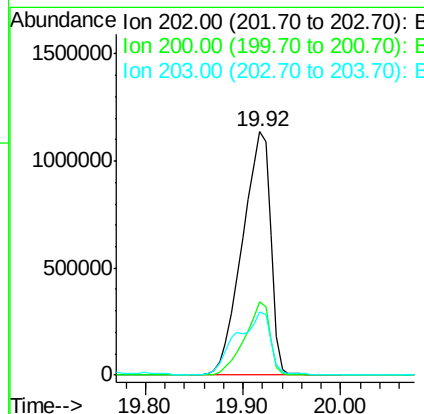
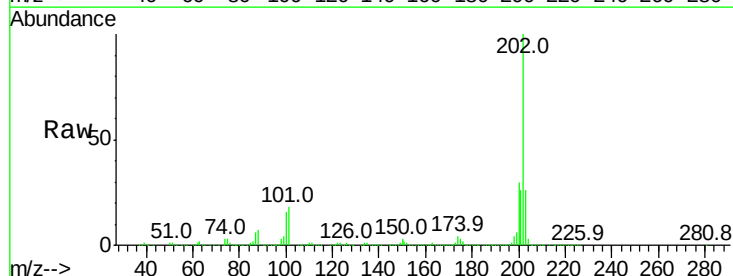
RT: 19.92 min Scan# 2907

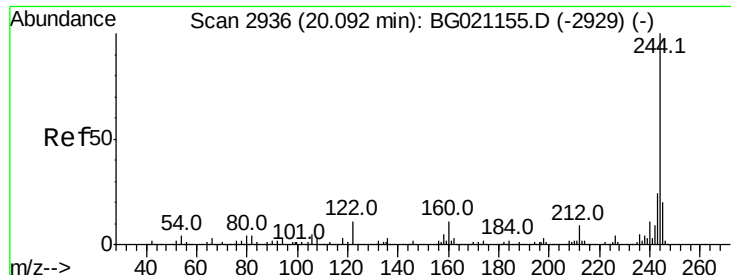
Delta R.T. 0.02 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Lower	Upper
202	100		
200	30.0	16.6	25.0#
203	26.0	13.8	20.8#





#78

Terphenyl-d14

Concen: 67.22 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.00 min

Lab File: BG021178.D

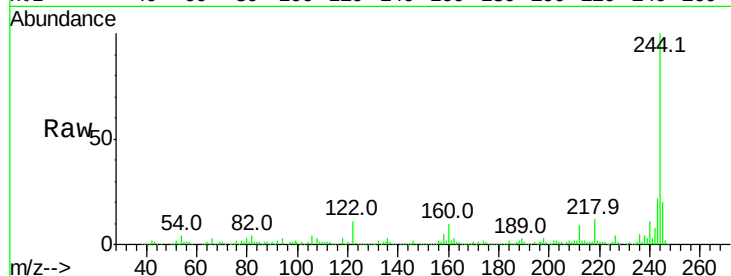
Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

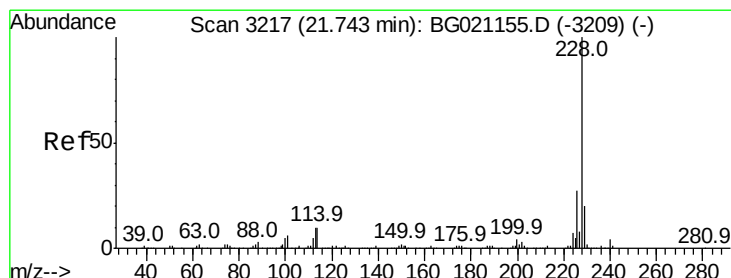
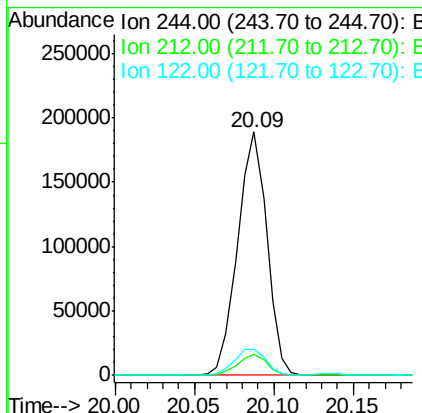
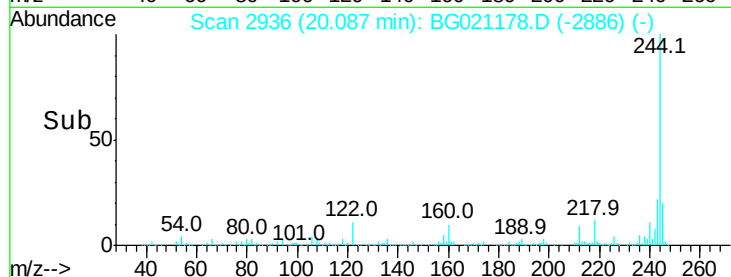
40054+15(0-2)RE



Tot Ion	Ratio	Lower	Upper
244	100		
212	8.6	5.8	8.6
122	10.9	8.3	12.5

Manual Integrations
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3/1/2016 6:50:41 PM



#80

Benzo(a)anthracene

Concen: 267.34 ng

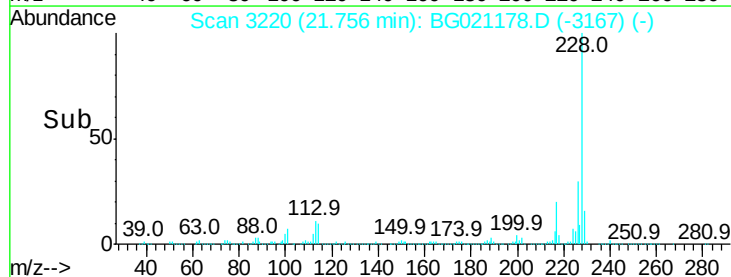
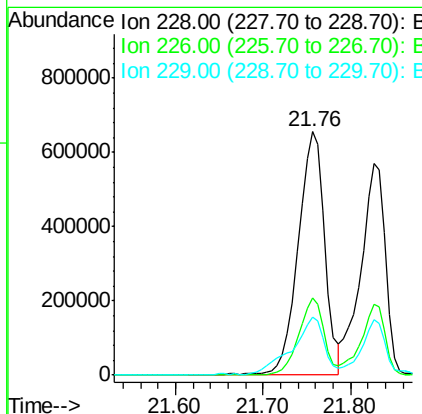
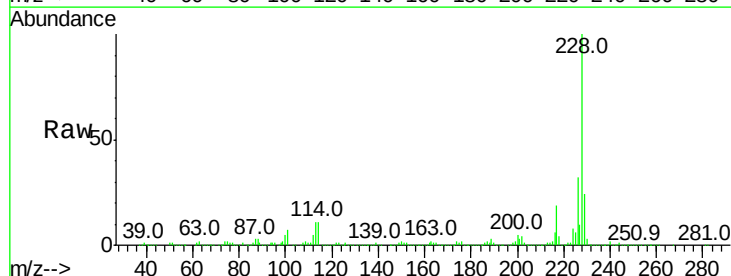
RT: 21.76 min Scan# 3220

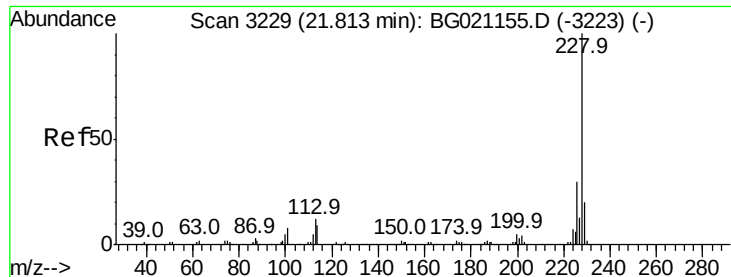
Delta R.T. 0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.7	34.1
229	23.7	15.5	23.3#





#82

Chrysene

Concen: 230.33 ng/mL

RT: 21.83 min Scan# 3232

Delta R.T. 0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

40054+15(0-2)RE

Tot Ion:228 Resp: 1126807

Ion Ratio Lower Upper

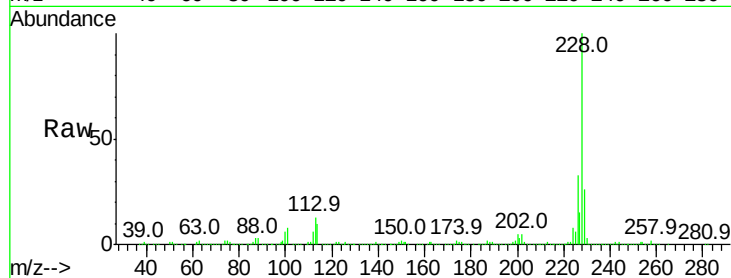
228 100

226 33.4 23.7 35.5

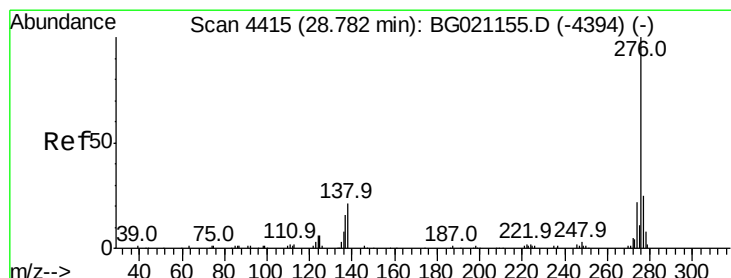
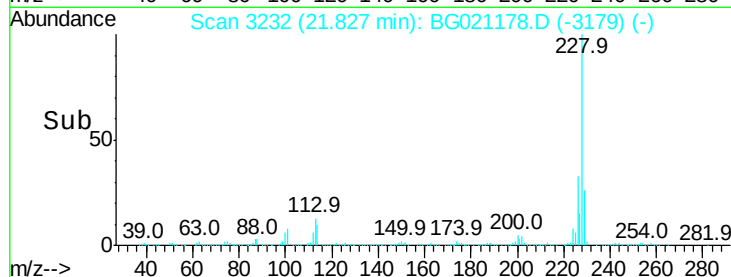
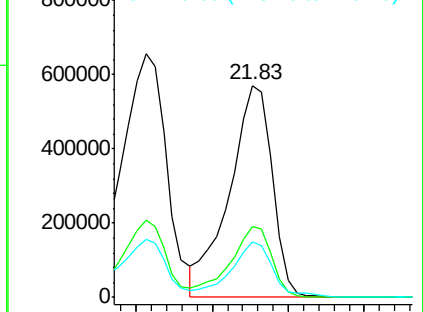
229 25.9 16.7 25.1#

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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



#85

Indeno(1,2,3-cd)pyrene

Concen: 106.76 ng/mL

RT: 28.84 min Scan# 4426

Delta R.T. 0.06 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

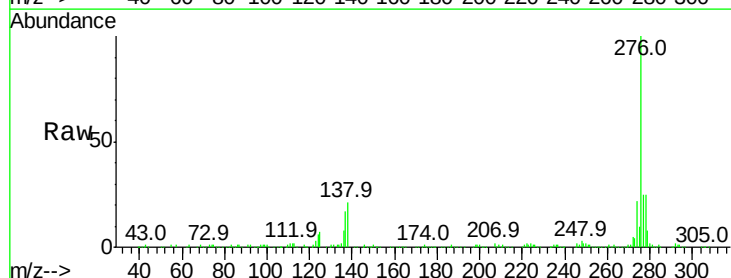
Tgt Ion:276 Resp: 598859

Ion Ratio Lower Upper

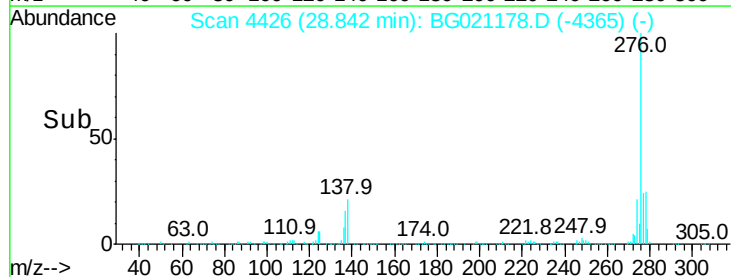
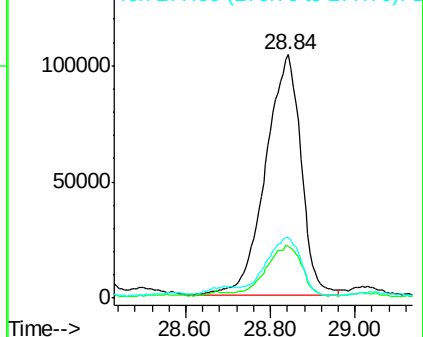
276 100

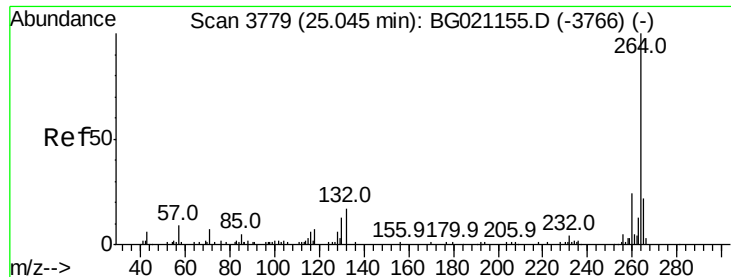
138 21.1 0.0 0.0#

277 23.8 0.0 0.0#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 25.06 min Scan# 3782

Delta R.T. 0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

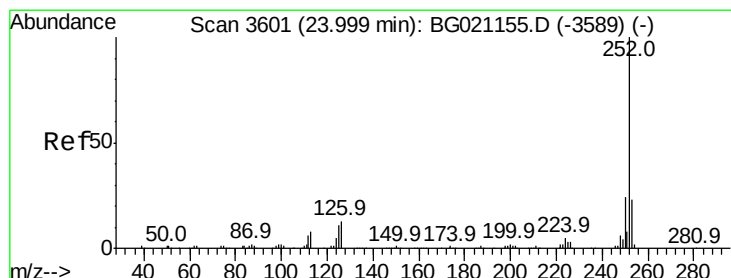
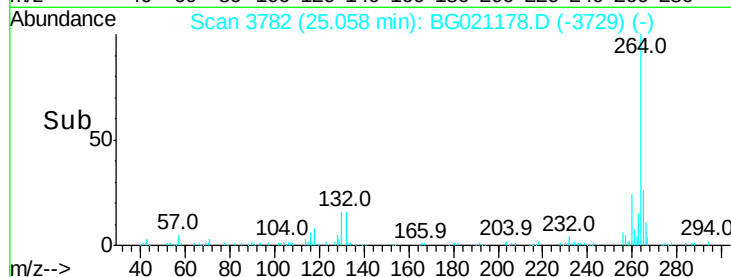
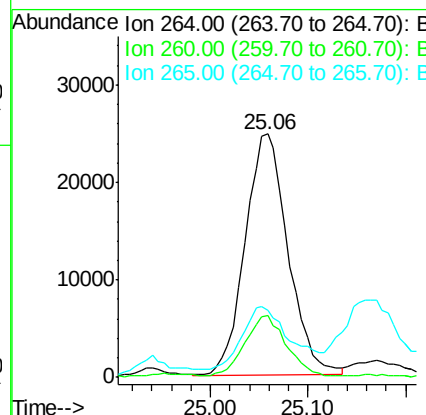
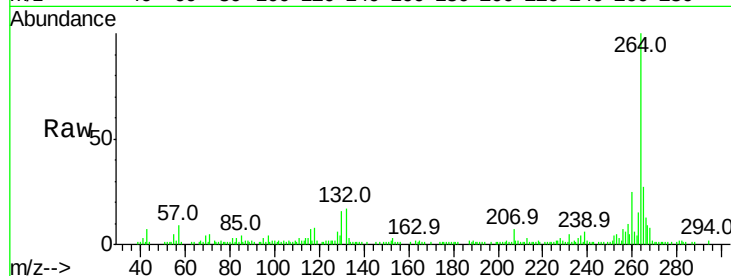
ClientSampleId :

40054+15(0-2)RE

Tot Ion:	264	Resp:	76136
Ion Ratio		Lower	Upper
264	100		
260	25.5	18.5	27.7
265	27.4	18.6	28.0

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 289.89 ng

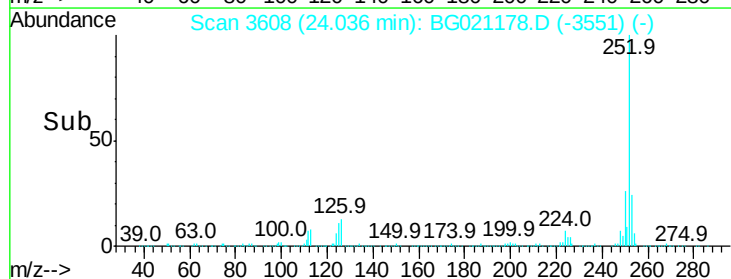
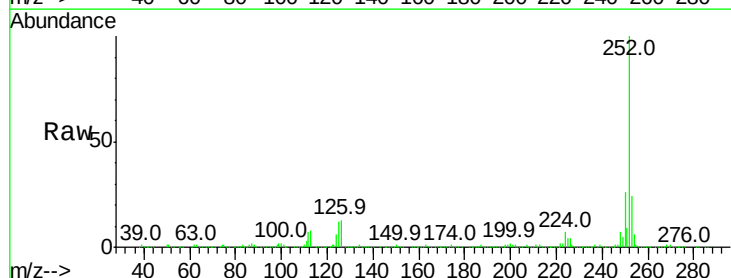
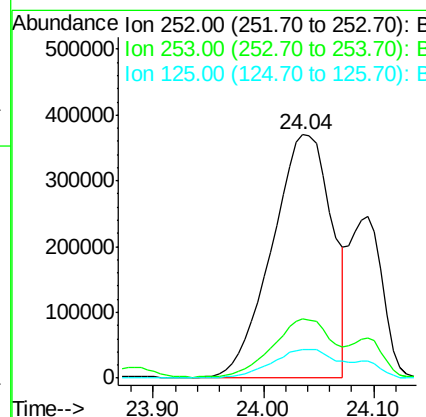
RT: 24.04 min Scan# 3608

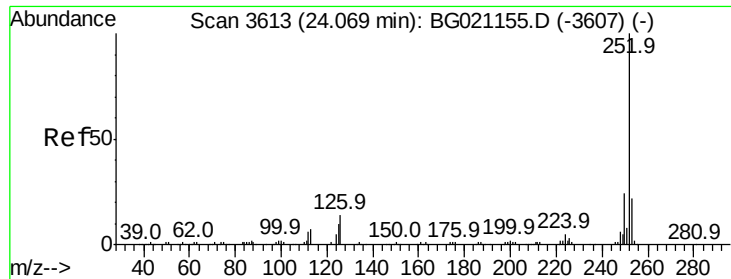
Delta R.T. 0.04 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion:	252	Resp:	1388262
Ion Ratio		Lower	Upper
252	100		
253	24.2	16.8	25.2
125	11.5	8.2	12.2





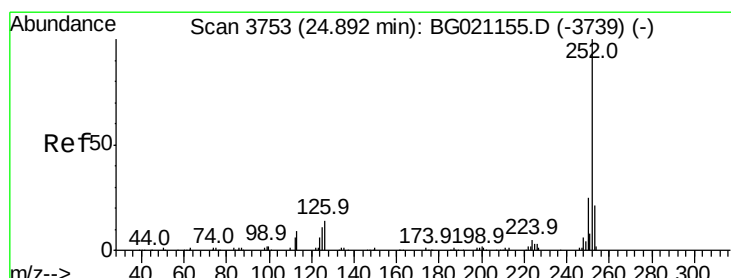
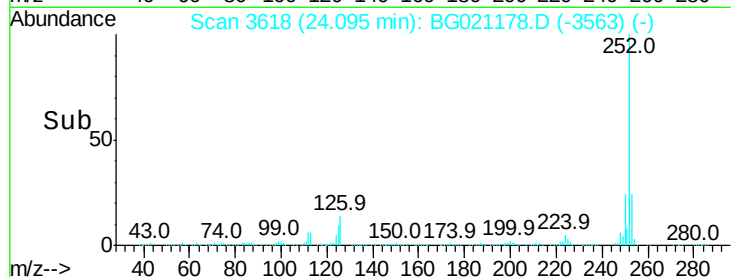
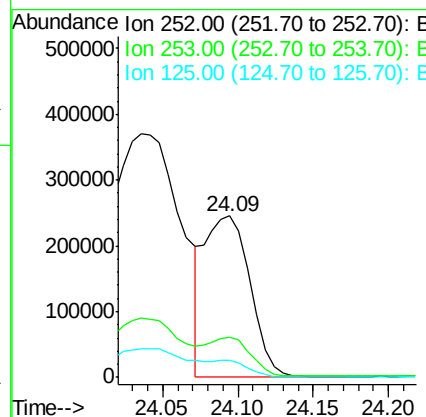
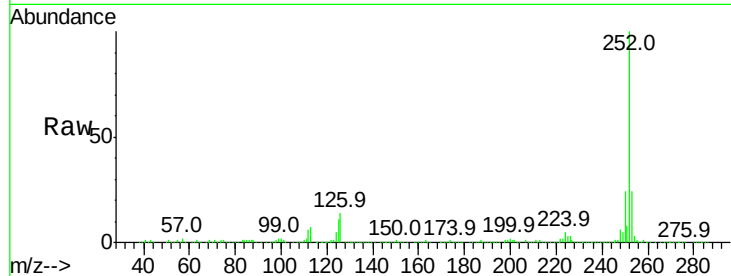
#88
Benzo(k)fluoranthene
Concen: 107.89 ng m
RT: 24.09 min Scan# 3618
Delta R.T. 0.03 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	16.4	24.6
125	10.5	8.2	12.2

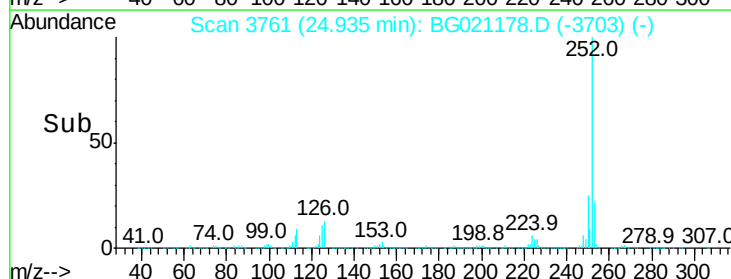
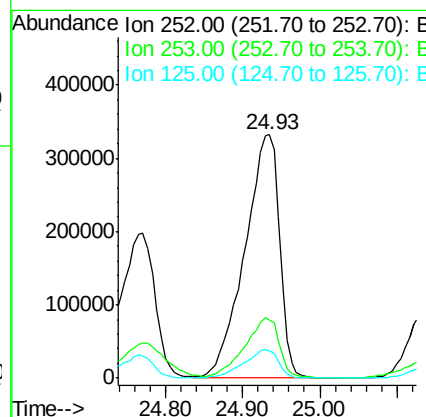
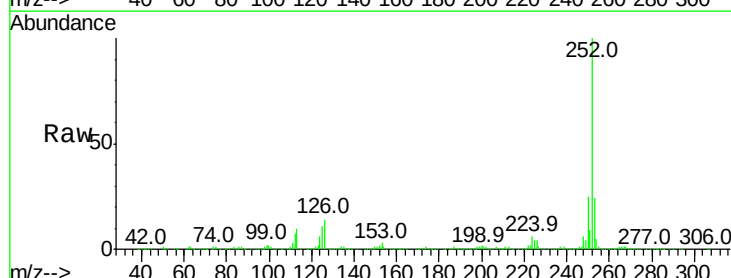
Manual Integrations
APPROVED

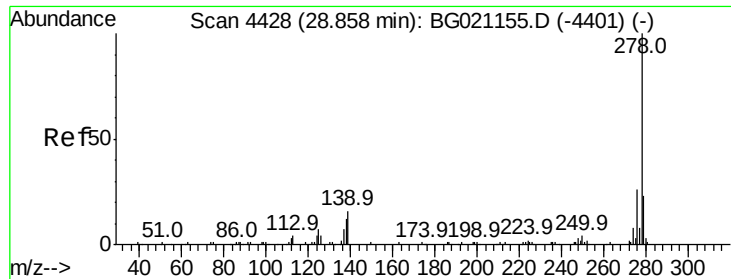
Sohil
3/1/2016 6:50:41 PM



#89
Benzo(a)pyrene
Concen: 225.71 ng
RT: 24.93 min Scan# 3761
Delta R.T. 0.04 min
Lab File: BG021178.D
Acq: 1 Mar 2016 8:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	15.8	23.8#
125	11.4	8.4	12.6





#90

Dibenzo(a,h)anthracene

Concen: 36.76 ng/mL

RT: 28.87 min Scan# 4430

Delta R.T. 0.01 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Instrument :

BNA_G

ClientSampleId :

40054+15(0-2)RE

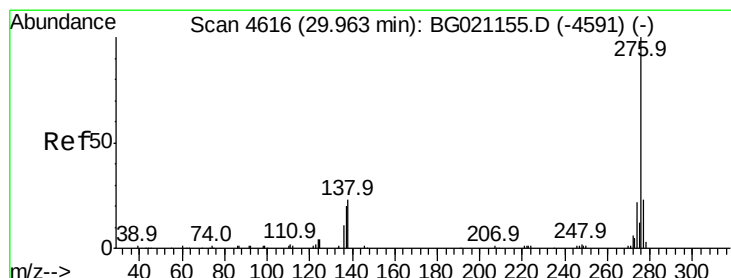
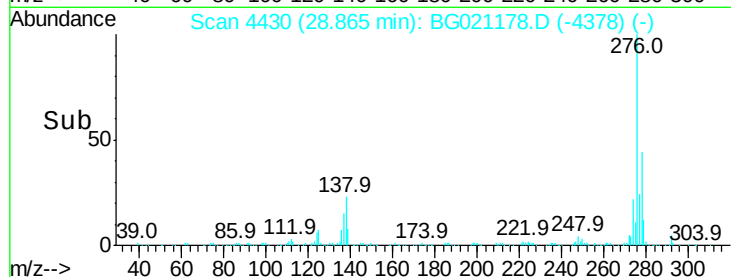
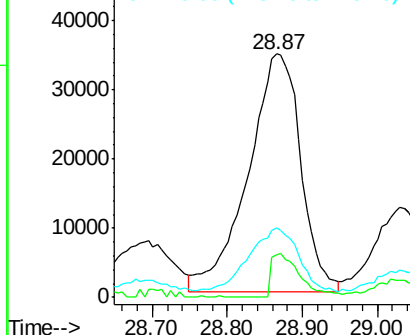
Tot Ion:	278	Resp:	168357
Ion Ratio	Lower	Upper	
278	100		
139	17.3	10.6	15.8#
279	28.6	19.7	29.5

Manual Integrations
APPROVED

Sohil
3/1/2016 6:50:41 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 114.73 ng/mL

RT: 30.02 min Scan# 4626

Delta R.T. 0.05 min

Lab File: BG021178.D

Acq: 1 Mar 2016 8:08

Tgt Ion:	276	Resp:	507689
Ion Ratio	Lower	Upper	
276	100		
277	24.2	16.6	25.0
138	21.5	14.6	21.8

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

