

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
 Data File : BG021180.D
 Acq On : 1 Mar 2016 9:27
 Operator : UM/SJ
 Sample : H1520-11RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Manual Integrations
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 3/1/2016 6:50:46 PM

Quant Time: Mar 01 16:31:34 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	13226	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	63794	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	34598	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	73606	20.00	ng	0.00
75) Chrysene-d12	21.76	240	79845	20.00	ng	0.00
86) Perylene-d12	25.03	264	73918	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	103712	124.66	ng	0.00
7) Phenol-d6	7.30	99	159523	116.61	ng	0.00
23) Nitrobenzene-d5	9.32	82	115708	76.75	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	37589	104.42	ng	0.00
44) 2-Fluorobiphenyl	13.39	172	165394	67.88	ng	0.00
78) Terphenyl-d14	20.08	244	200655	60.88	ng	-0.01
Target Compounds						
31) Naphthalene	11.01	128	7179	2.16	ng	Qvalue # 96
49) Dimethylphthalate	14.20	163	33284	10.80	ng	98
51) Acenaphthene	14.82	154	18440	8.03	ng	95
54) Dibenzofuran	15.15	168	14633	4.77	ng	92
57) Fluorene	15.80	166	21426	7.34	ng	94
70) Phenanthrene	17.54	178	256090	64.47	ng	100
71) Anthracene	17.63	178	67525	16.61	ng	100
72) Carbazole	17.89	167	25634	7.11	ng	# 95
74) Fluoranthene	19.54	202	406580	87.12	ng	99
77) Pyrene	19.89	202	327135	68.68	ng	98
80) Benzo(a)anthracene	21.74	228	179858	38.05	ng	99
82) Chrysene	21.81	228	140427	31.35	ng	98
85) Indeno(1,2,3-cd)pyrene	28.77	276	64150m	12.49	ng	
87) Benzo(b)fluoranthene	23.99	252	186292	40.07	ng	98
88) Benzo(k)fluoranthene	24.06	252	74609m	16.02	ng	
89) Benzo(a)pyrene	24.88	252	136384	30.34	ng	93
91) Benzo(a,h,i)perylene	29.93	276	64413m	14.99	ng	

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

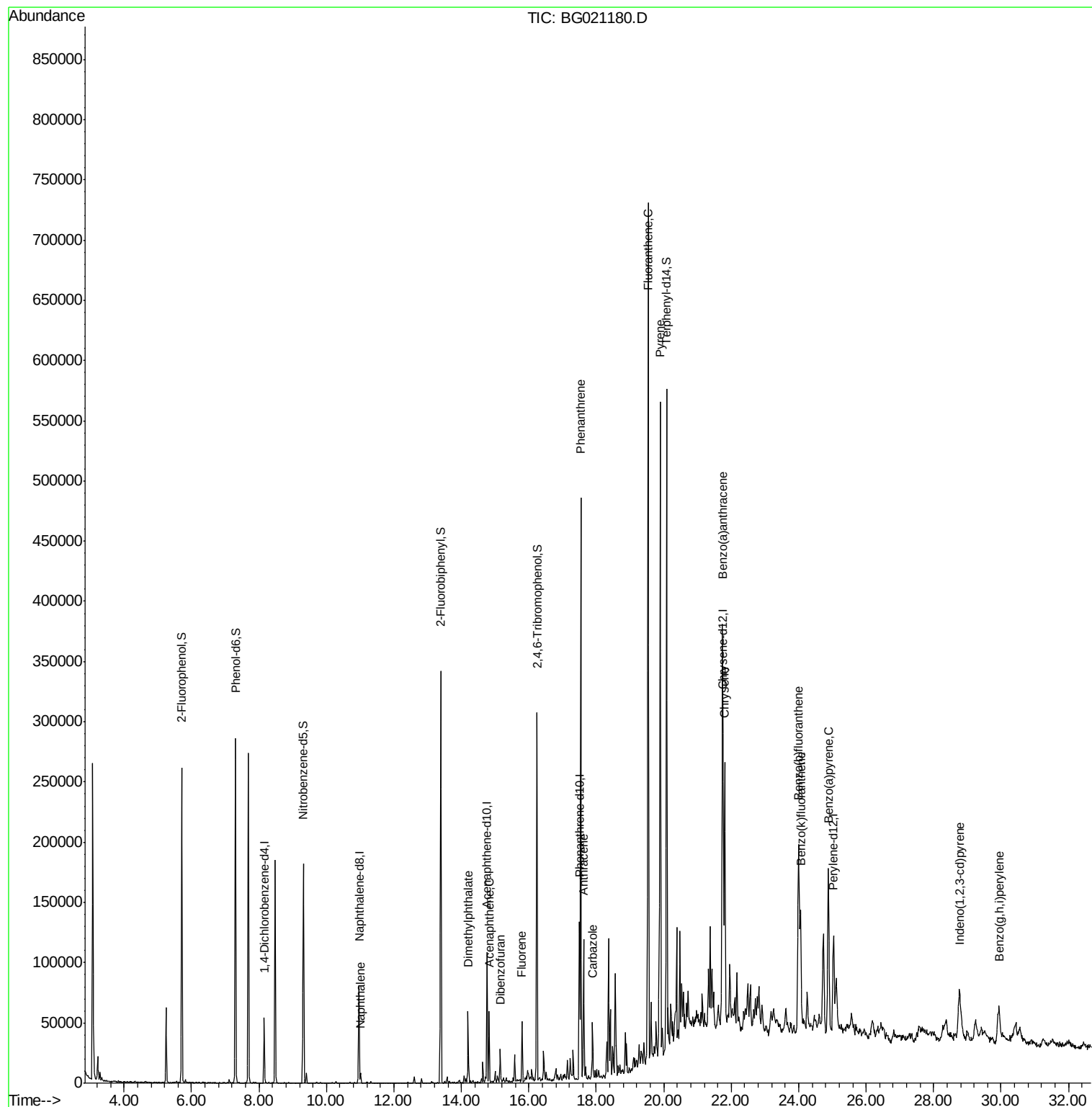
Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\
Data File : BG021180.D
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Operator : UM/SJ
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Misc :
ALS Vial : 26 Sample Multiplier: 1

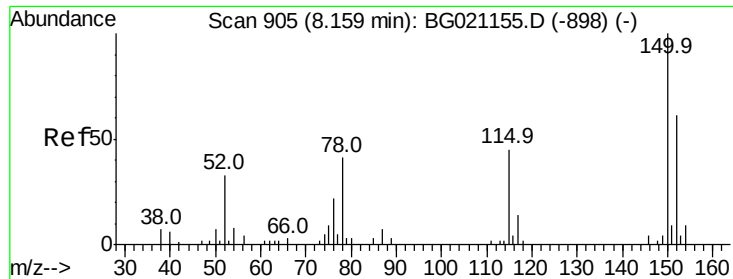
Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

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Quant Time: Mar 01 16:31:34 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

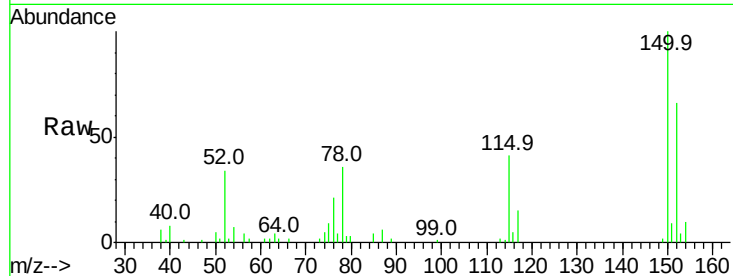
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.15 min Scan# 905
Delta R.T. -0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.9	123.4	185.2
115	62.5	43.3	64.9

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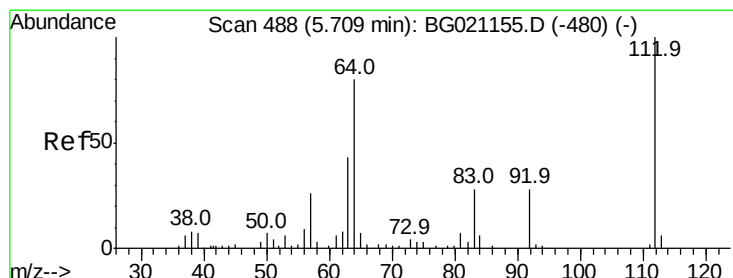
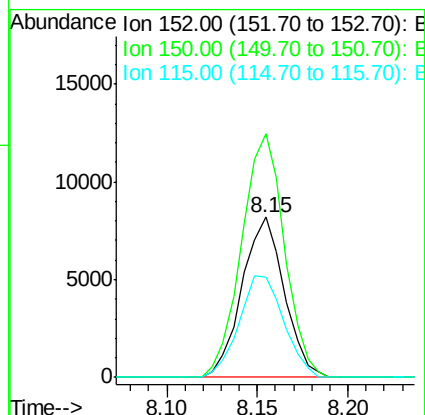
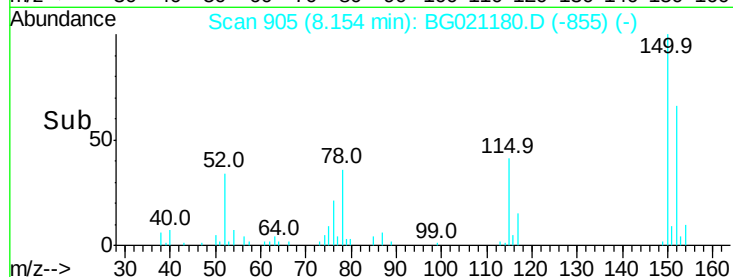


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

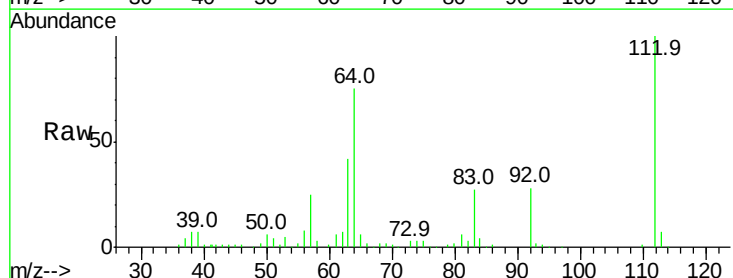
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 124.66 ng
RT: 5.71 min Scan# 489
Delta R.T. 0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	75.1	42.6	63.8#
63	41.7	21.7	32.5#

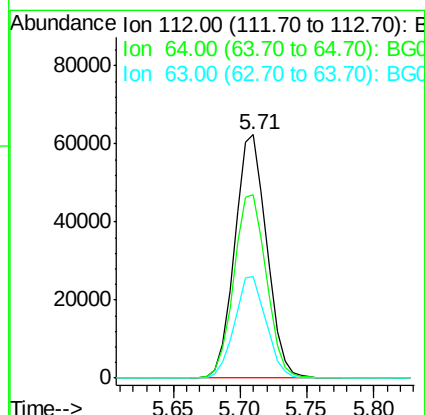
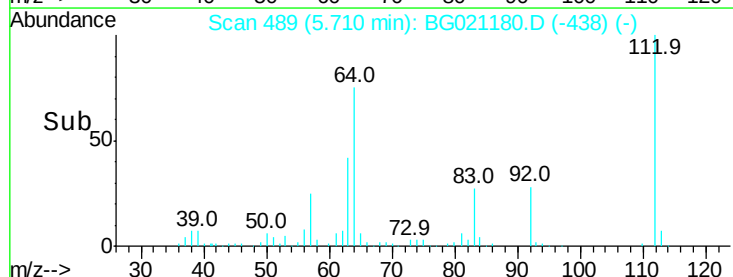


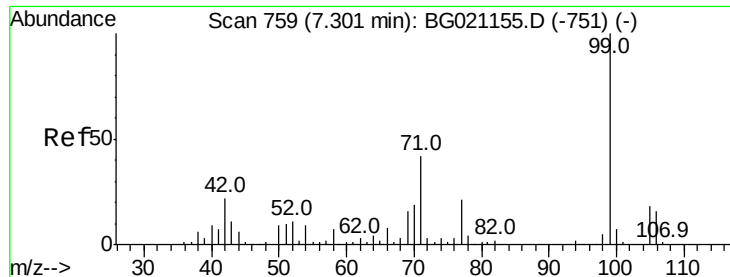
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 116.61 ng

RT: 7.30 min Scan# 760

Delta R.T. 0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

Tot Ion: 99 Resp: 159523

Ion Ratio Lower Upper

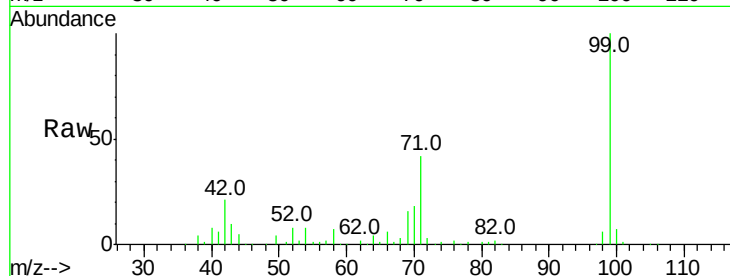
99 100

42 20.9 13.2 19.8#

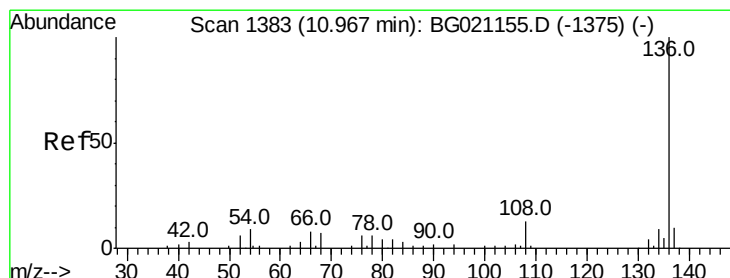
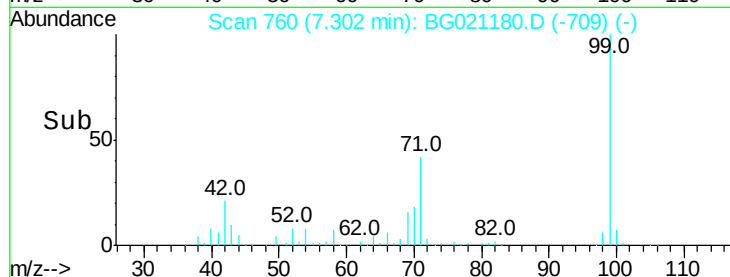
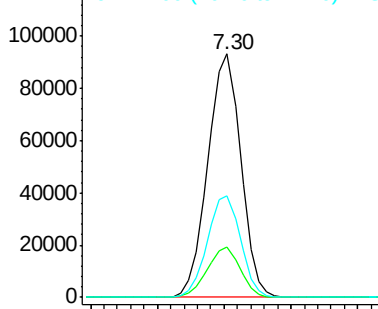
71 41.7 25.2 37.8#

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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# 1383

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Tgt Ion: 136 Resp: 63794

Ion Ratio Lower Upper

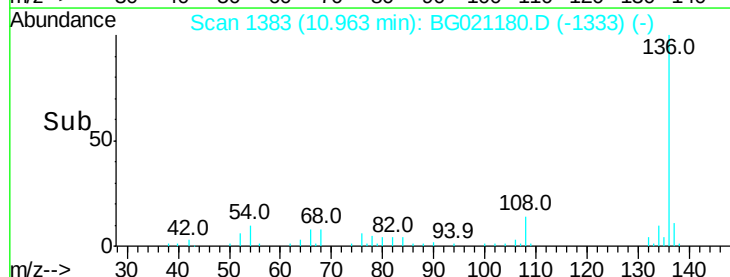
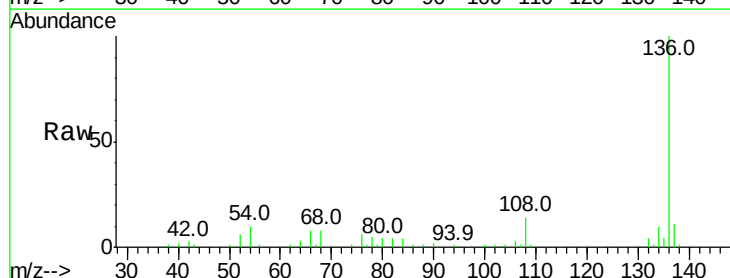
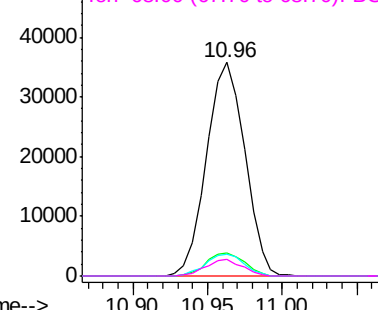
136 100

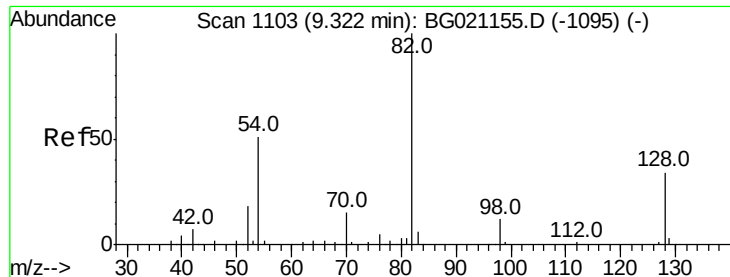
137 10.7 8.8 13.2

54 10.4 6.9 10.3#

68 7.6 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





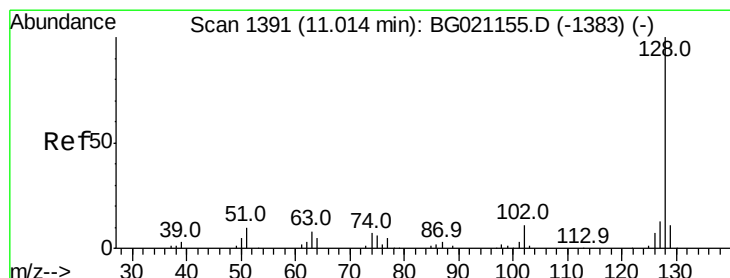
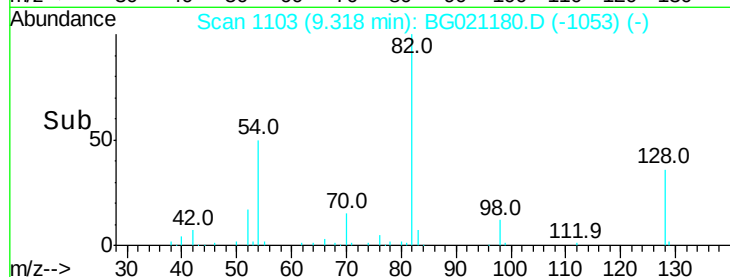
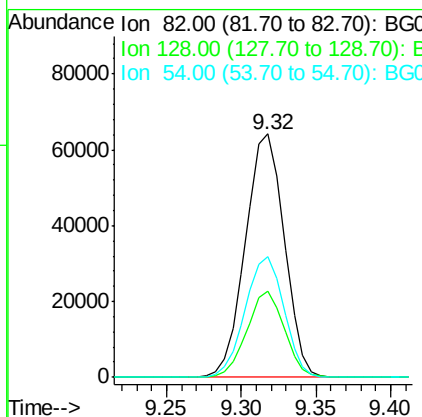
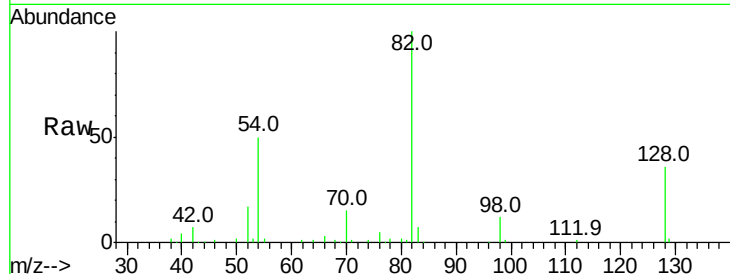
#23
Nitrobenzene-d5
Concen: 76.75 ng
RT: 9.32 min Scan# 1103
Delta R.T. -0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.6	36.3	54.5#
54	49.9	37.6	56.4

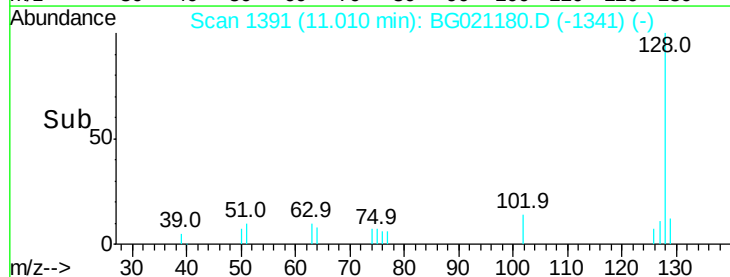
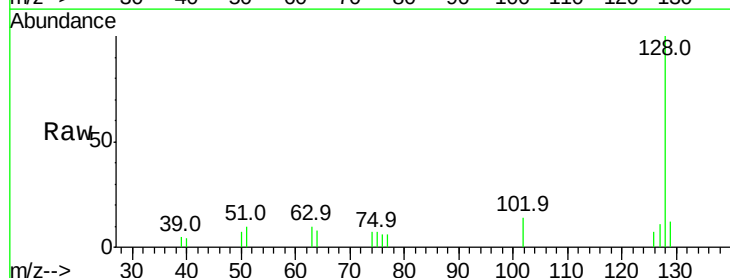
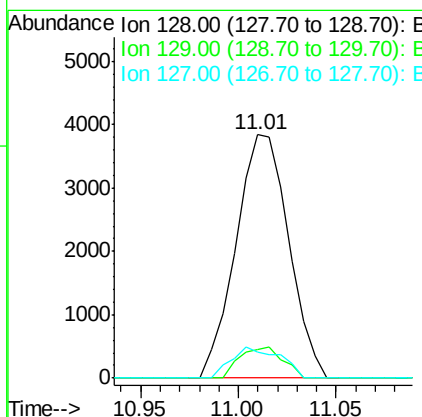
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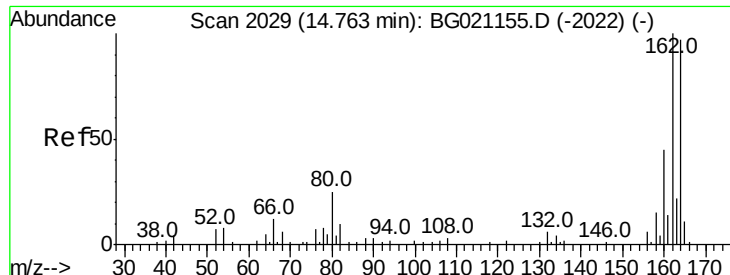
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#31
Naphthalene
Concen: 2.16 ng
RT: 11.01 min Scan# 1391
Delta R.T. -0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.4	14.2
127	10.7	10.8	16.2#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

Tot Ion:164 Resp: 34598

Ion Ratio Lower Upper

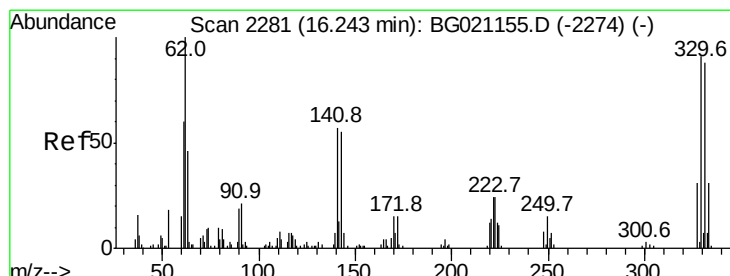
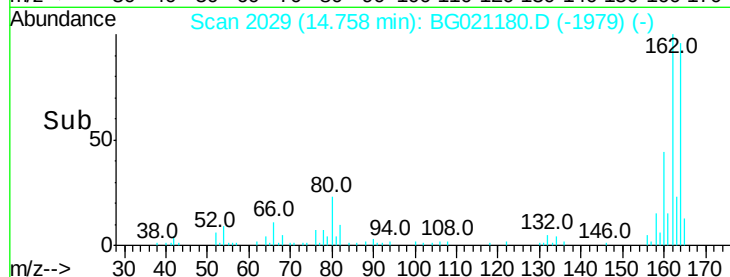
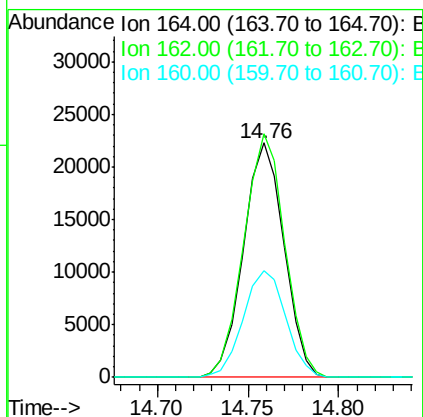
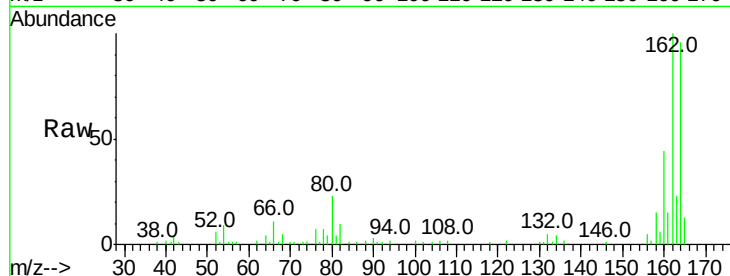
164 100

162 104.0 80.6 120.8

160 45.5 36.5 54.7

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#41

2,4,6-Tribromophenol

Concen: 104.42 ng

RT: 16.24 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

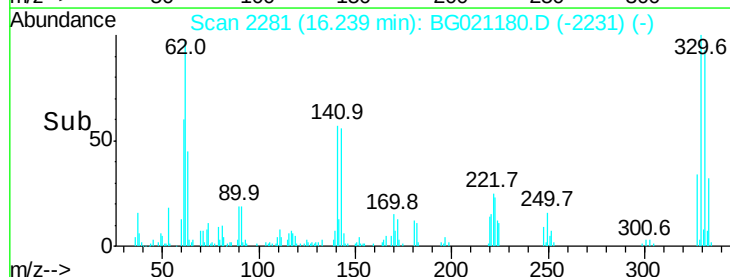
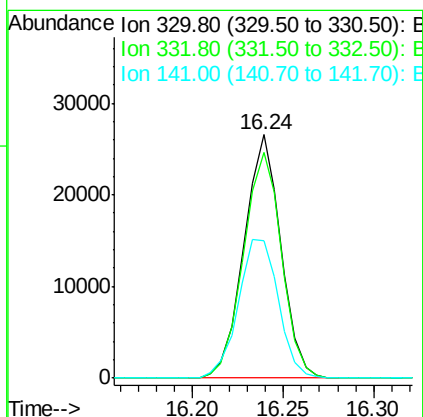
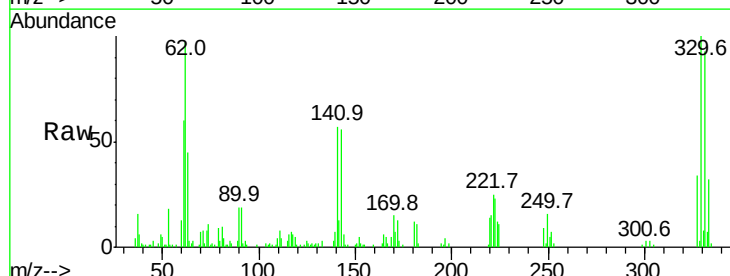
Tgt Ion:330 Resp: 37589

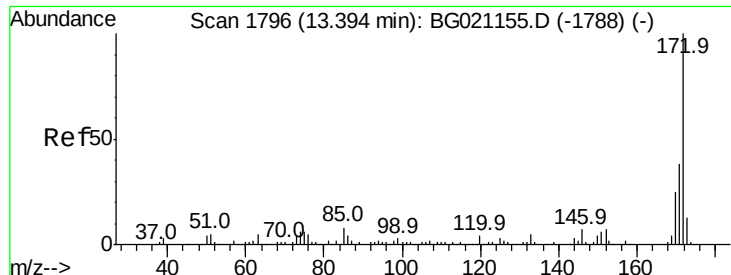
Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.0

141 62.2 35.3 52.9#





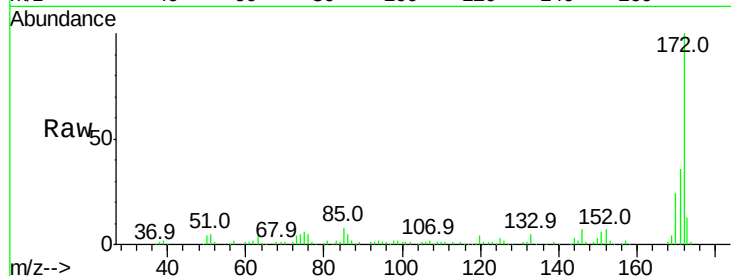
#44
 2-Fluorobiphenyl
 Concen: 67.88 ng
 RT: 13.39 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

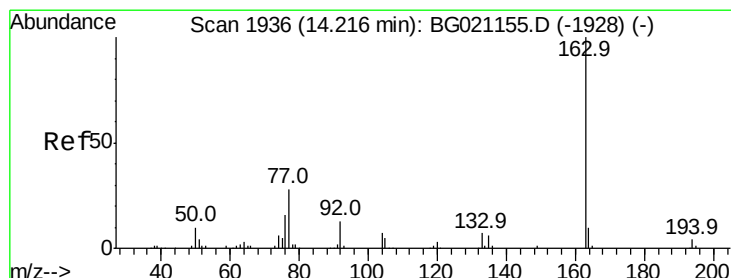
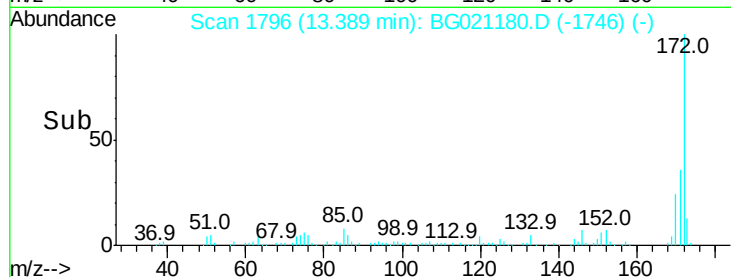
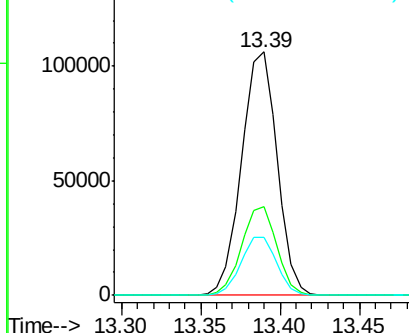
Tot Ion	Ratio	Resp	Lower	Upper
172	100	165394		
171	36.4		29.4	44.0
170	24.0		19.8	29.8

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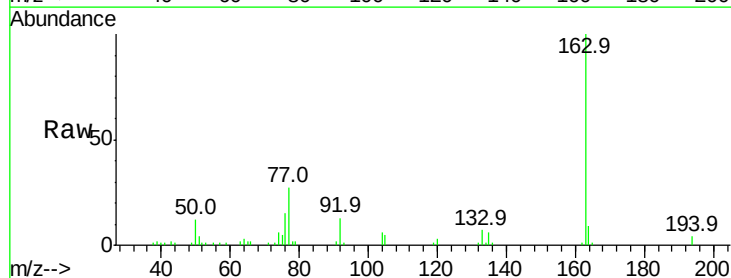


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

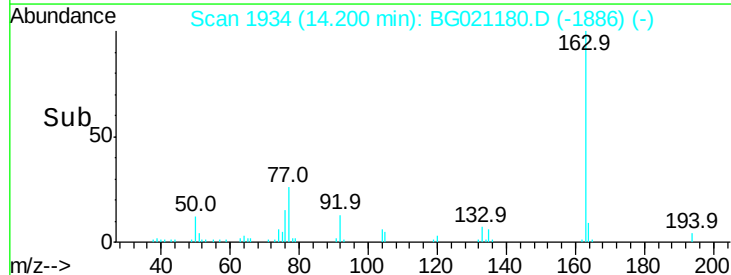
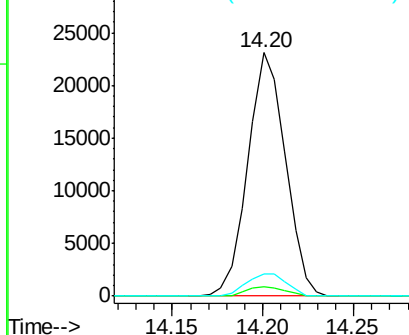


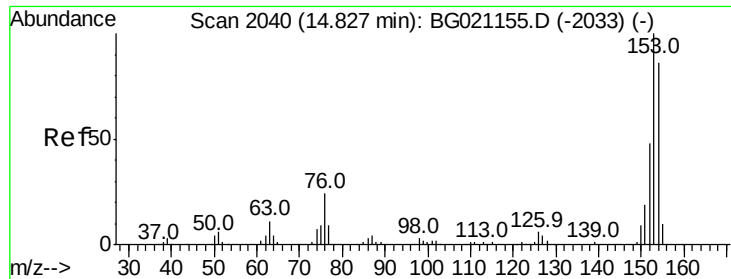
#49
 Dimethylphthalate
 Concen: 10.80 ng
 RT: 14.20 min Scan# 1934
 Delta R.T. -0.02 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	33284		
194	3.8		2.8	4.2
164	9.2		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: 8.03 ng

RT: 14.82 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BG021180.D

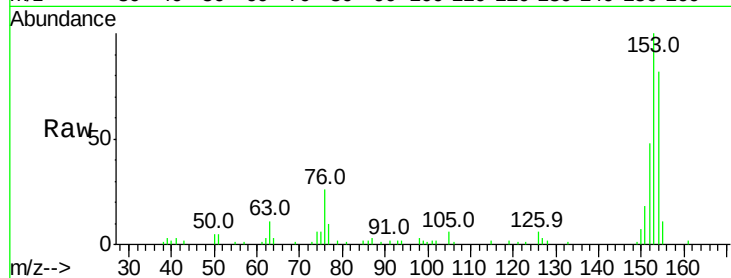
Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

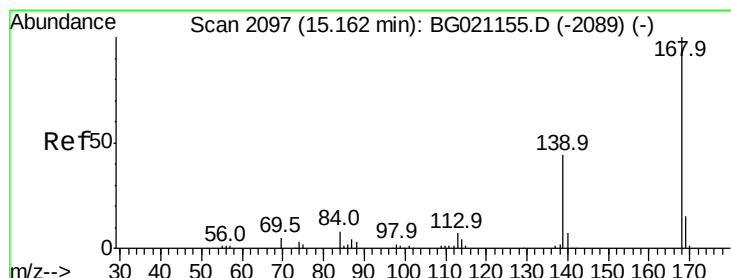
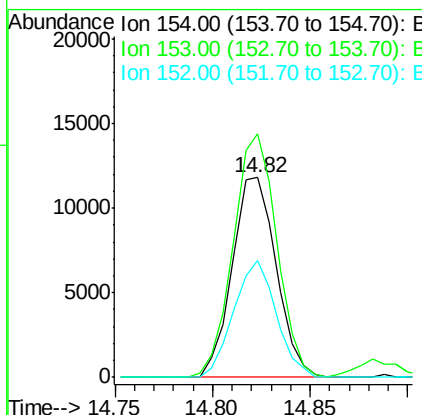
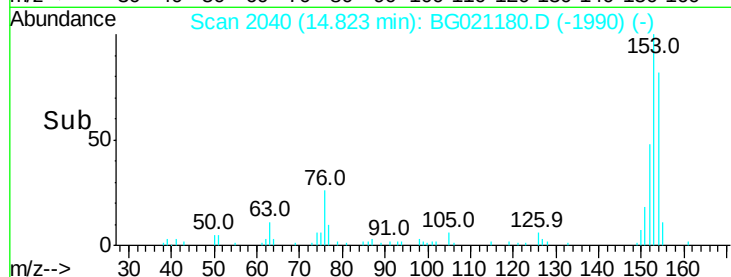
40053+15(0-2)RE



Tot Ion:	154	Resp:	18440
Ion Ratio	Lower	Upper	
154	100		
153	121.7	94.2	141.2
152	58.3	42.9	64.3

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#54

Dibenzofuran

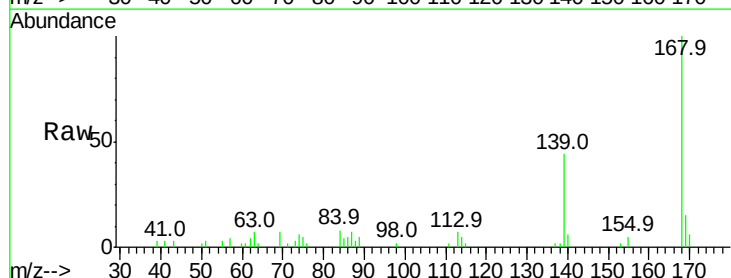
Concen: 4.77 ng

RT: 15.15 min Scan# 2096

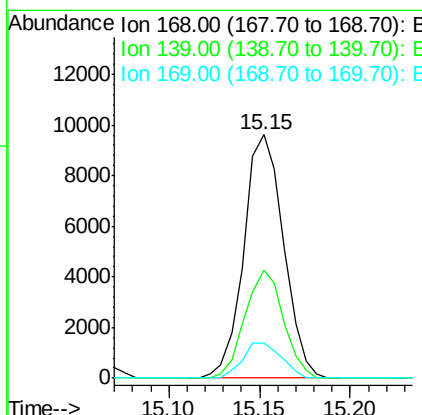
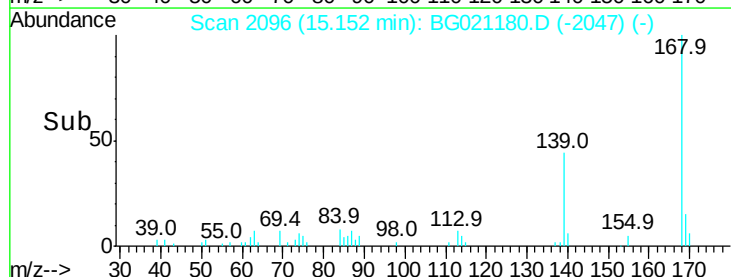
Delta R.T. -0.01 min

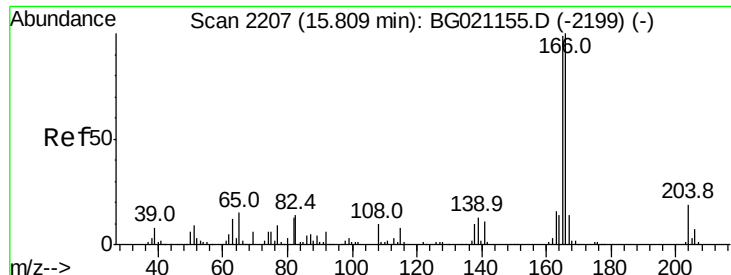
Lab File: BG021180.D

Acq: 1 Mar 2016 9:27



Tgt Ion:	168	Resp:	14633
Ion Ratio	Lower	Upper	
168	100		
139	44.1	29.8	44.8
169	14.5	11.4	17.2





#57

Fluorene

Concen: 7.34 ng

RT: 15.80 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

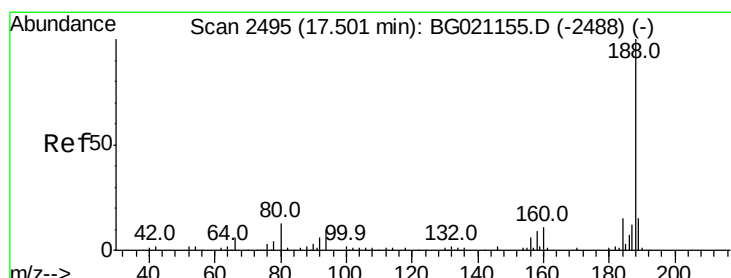
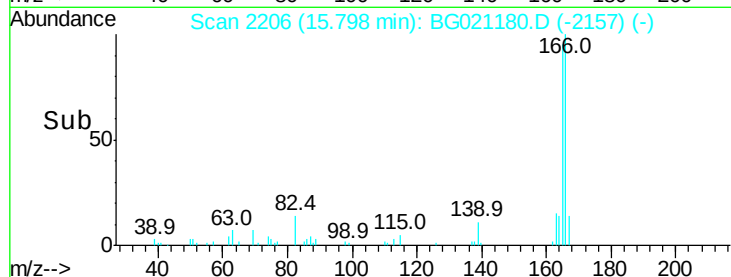
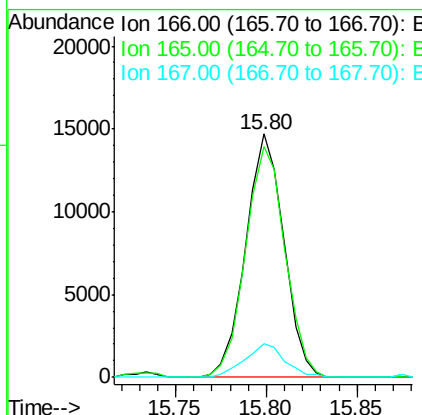
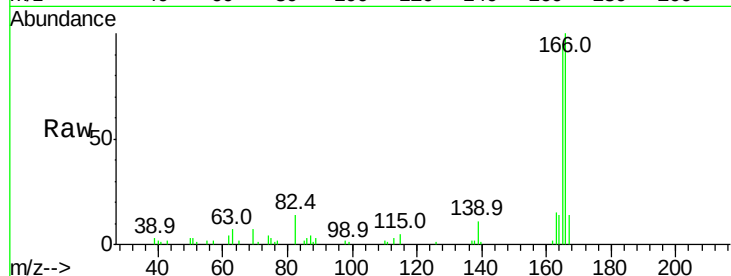
ClientSampleId :

40053+15(0-2)RE

Tot Ion:	166	Resp:	21426
Ion Ratio	Lower	Upper	
166	100		
165	94.7	81.3	121.9
167	13.8	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

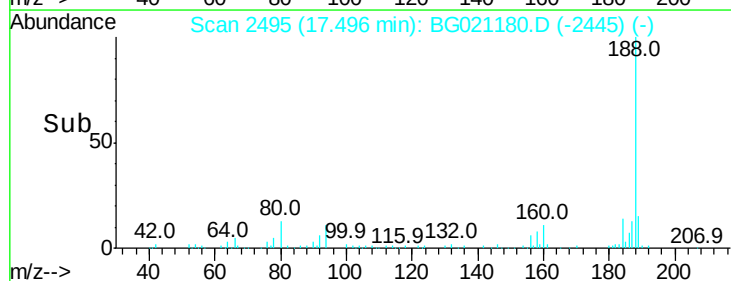
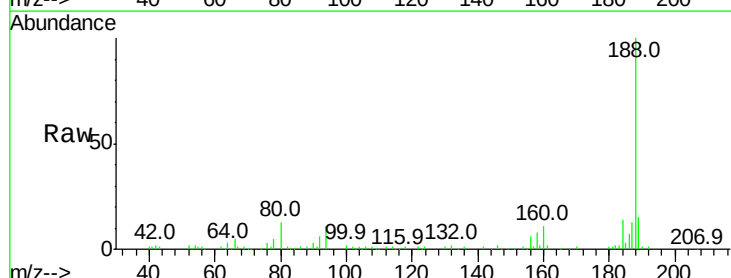
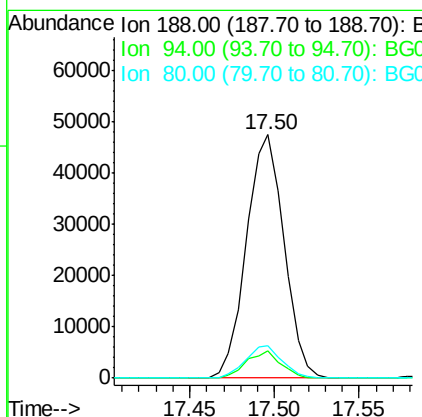
RT: 17.50 min Scan# 2495

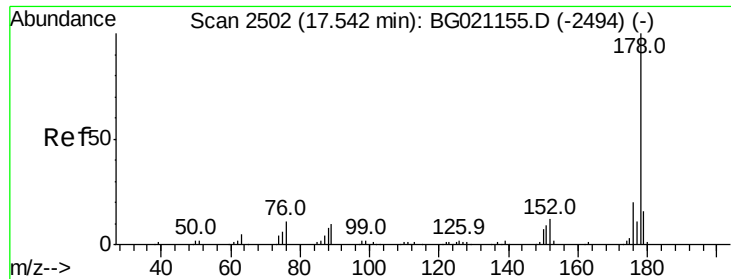
Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Tgt Ion:	188	Resp:	73606
Ion Ratio	Lower	Upper	
188	100		
94	11.2	8.2	12.4
80	13.5	9.2	13.8





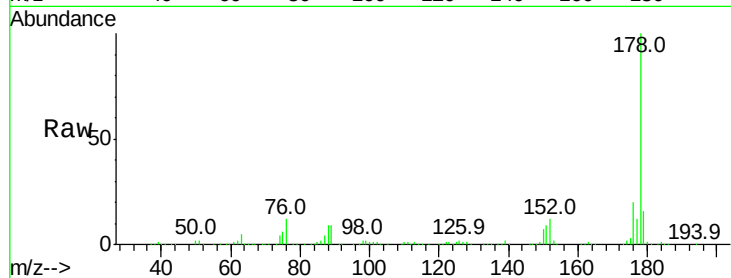
#70
Phenanthrene
Concen: 64.47 ng
RT: 17.54 min Scan# 2502
Delta R.T. -0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

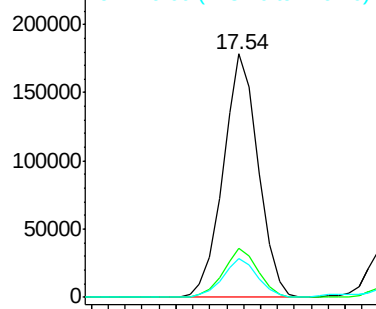
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.2	24.4
179	15.9	12.9	19.3

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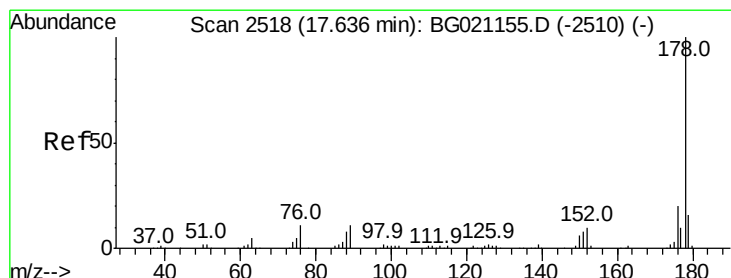
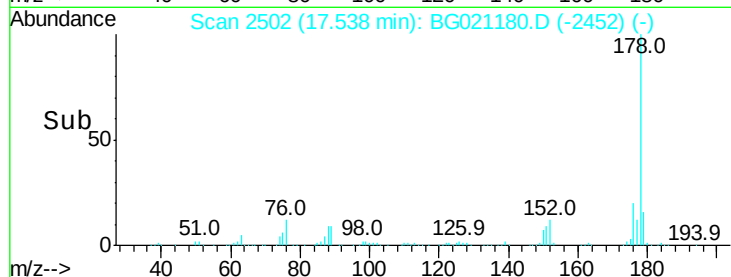
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



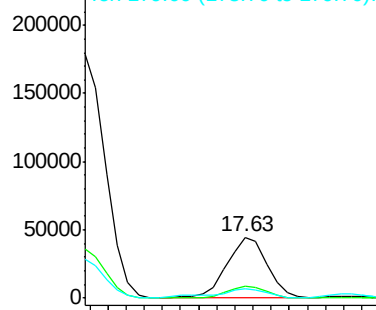
Time--> 17.45 17.50 17.55 17.60



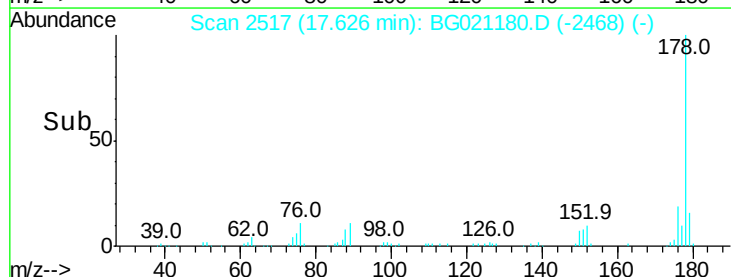
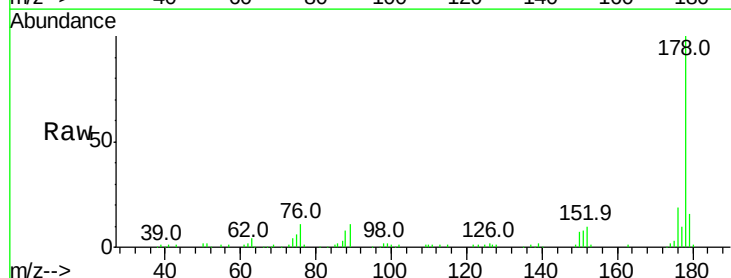
#71
Anthracene
Concen: 16.61 ng
RT: 17.63 min Scan# 2517
Delta R.T. -0.01 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

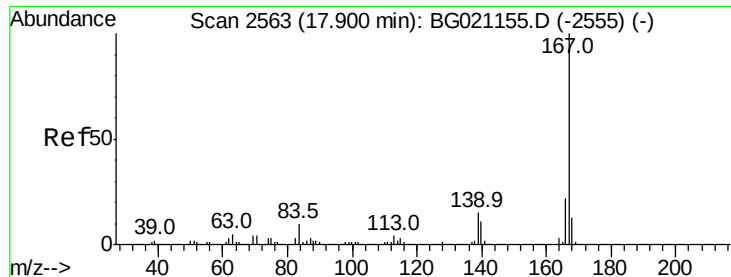
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.6	12.6	19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time--> 17.55 17.60 17.65





#72

Carbazole

Concen: 7.11 ng

RT: 17.89 min Scan# 2562

Delta R.T. -0.01 min

Lab File: BG021180.D

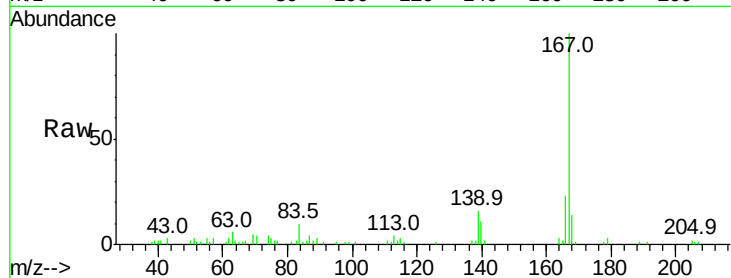
Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

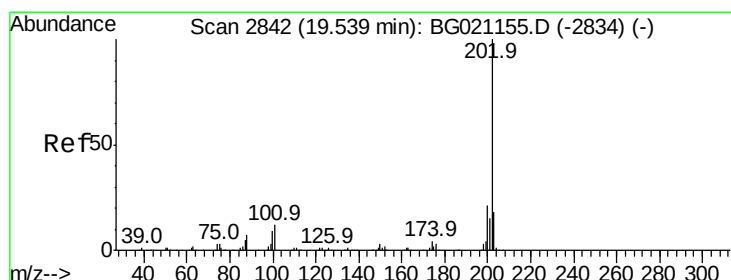
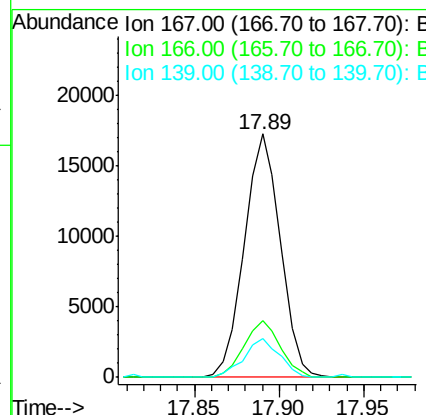
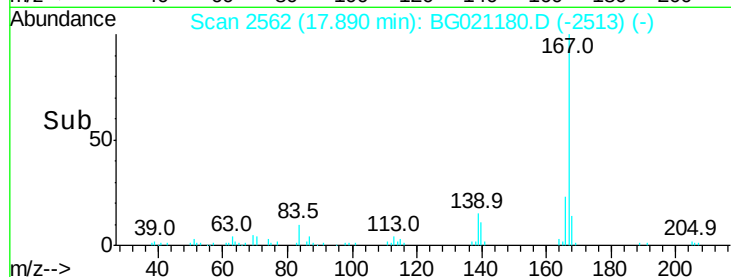
40053+15(0-2)RE



Tot Ion:	167	Resp:	25634
Ion Ratio	Lower	Upper	
167	100		
166	23.2	17.5	26.3
139	16.1	10.3	15.5#

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#74

Fluoranthene

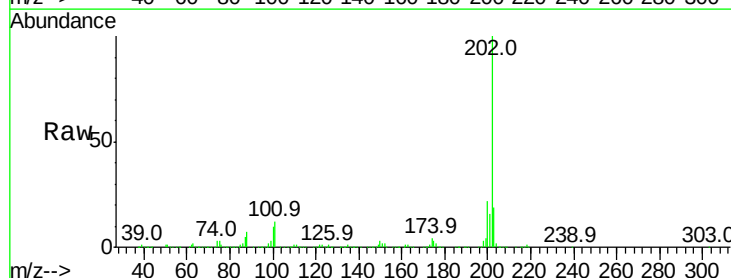
Concen: 87.12 ng

RT: 19.54 min Scan# 2842

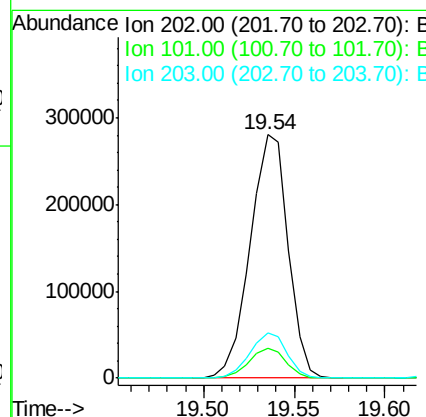
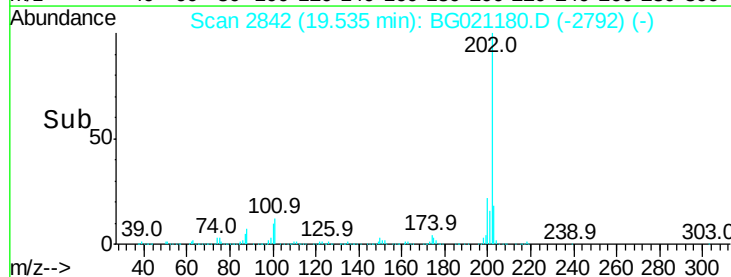
Delta R.T. -0.00 min

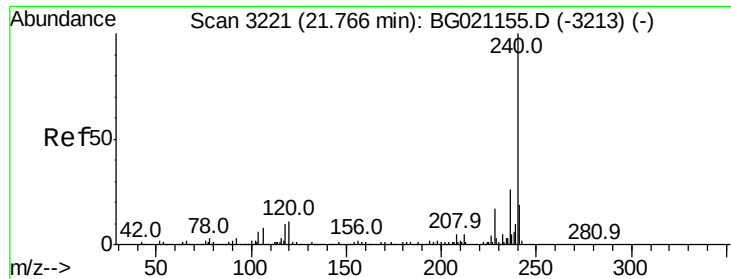
Lab File: BG021180.D

Acq: 1 Mar 2016 9:27



Tgt Ion:	202	Resp:	406580
Ion Ratio	Lower	Upper	
202	100		
101	12.4	0.0	32.5
203	18.5	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.76 min Scan# 3221

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

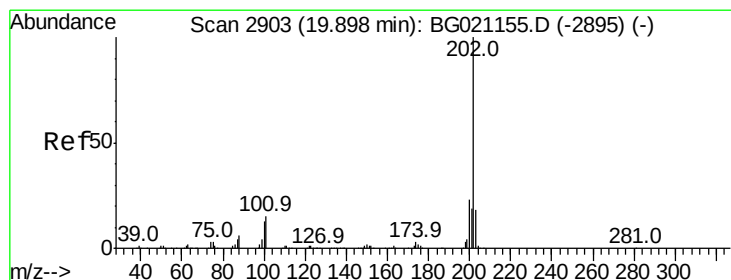
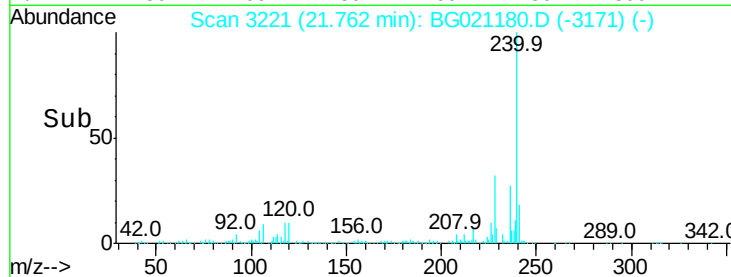
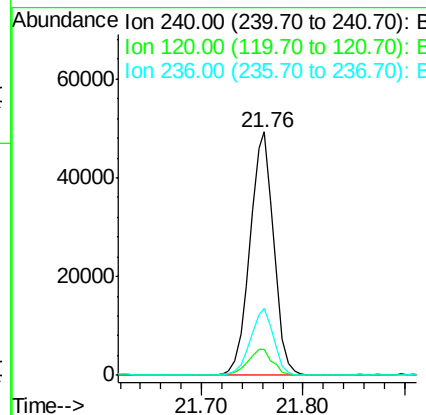
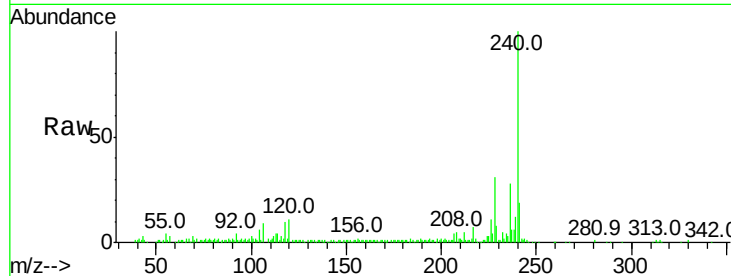
ClientSampleId :

40053+15(0-2)RE

Tot Ion:	240	Resp:	79845
Ion Ratio	Lower	Upper	
240	100		
120	10.5	7.5	11.3
236	27.7	20.5	30.7

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#77

Pyrene

Concen: 68.68 ng

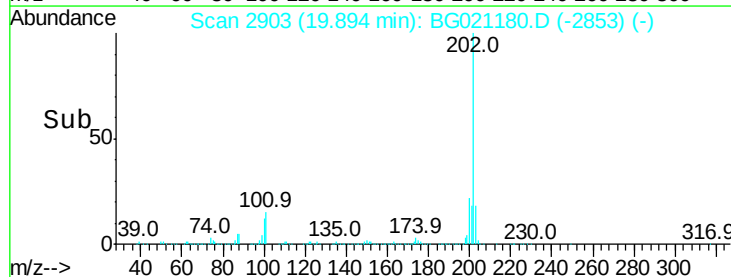
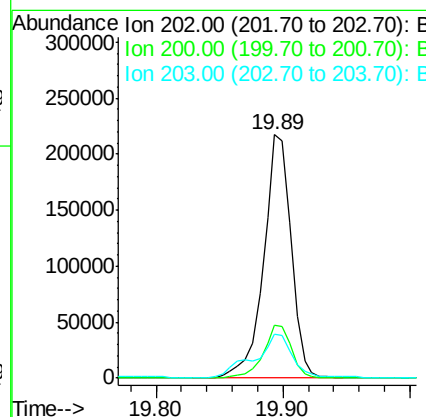
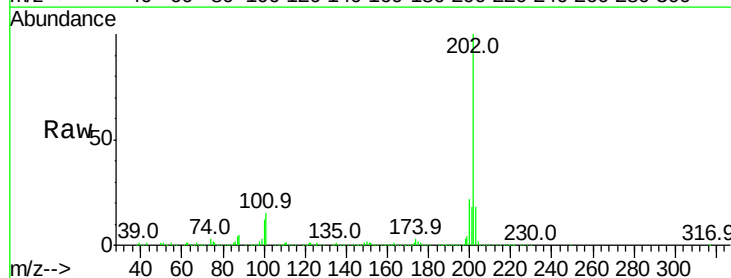
RT: 19.89 min Scan# 2903

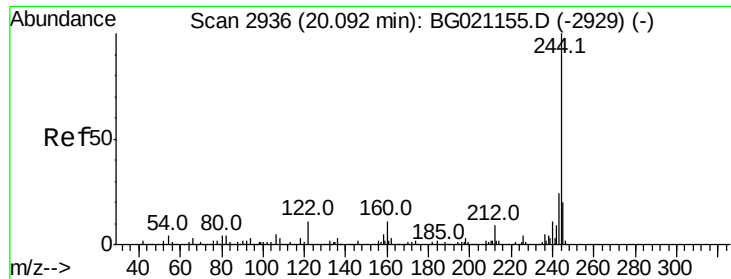
Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Tgt Ion:	202	Resp:	327135
Ion Ratio	Lower	Upper	
202	100		
200	21.6	16.6	25.0
203	18.2	13.8	20.8





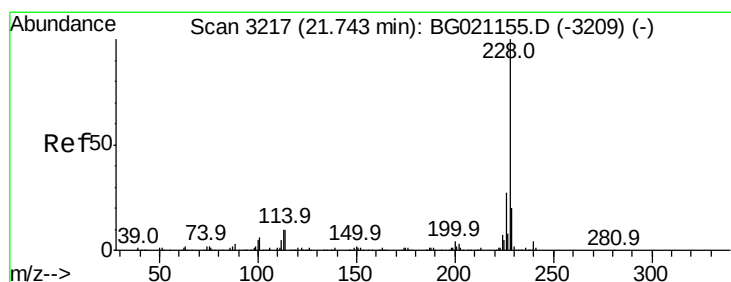
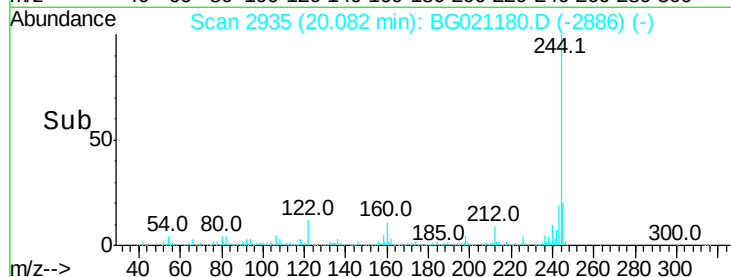
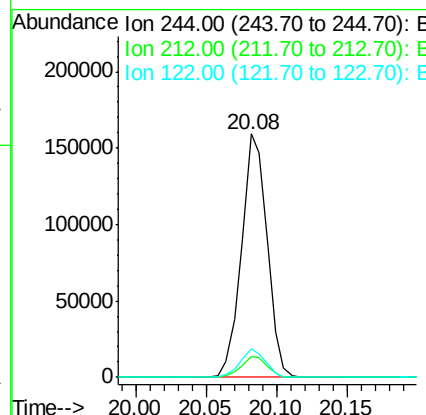
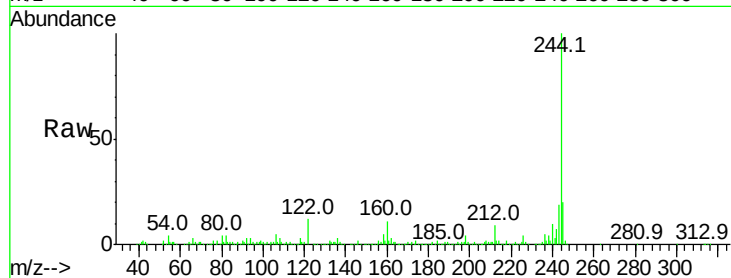
#78
 Terphenyl-d14
 Concen: 60.88 ng
 RT: 20.08 min Scan# 2935
 Delta R.T. -0.01 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	8.7	5.8	8.6#
122	11.7	8.3	12.5

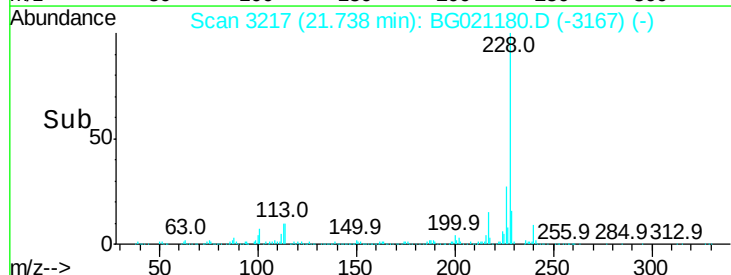
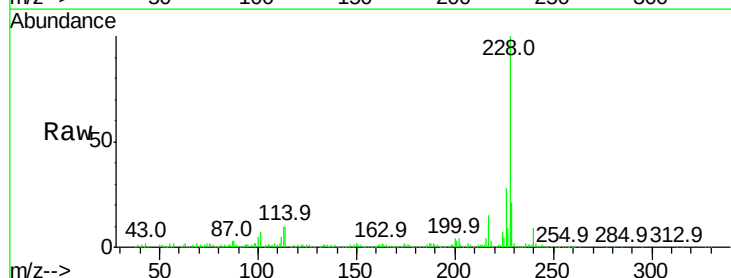
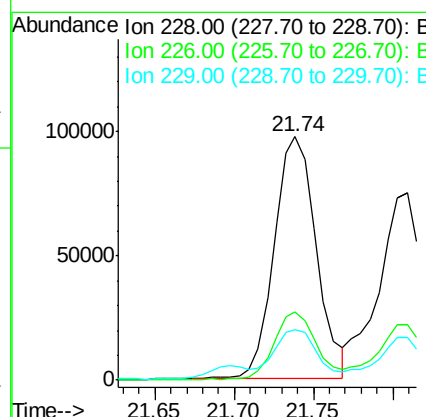
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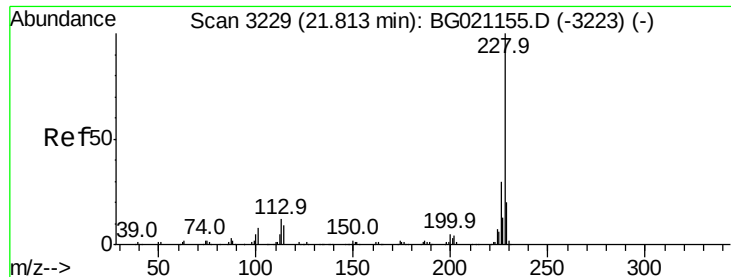
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#80
 Benzo(a)anthracene
 Concen: 38.05 ng
 RT: 21.74 min Scan# 3217
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	28.0	22.7	34.1
229	20.5	15.5	23.3





#82

Chrysene

Concen: 31.35 ng

RT: 21.81 min Scan# 3229

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

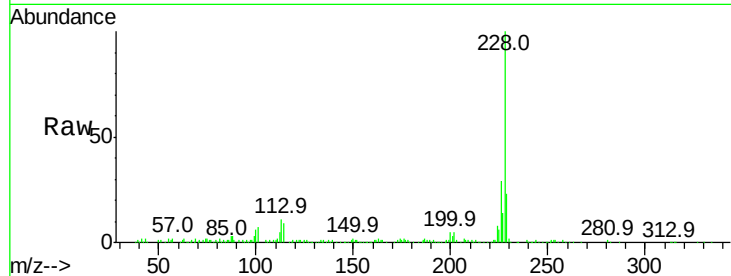
ClientSampleId :

40053+15(0-2)RE

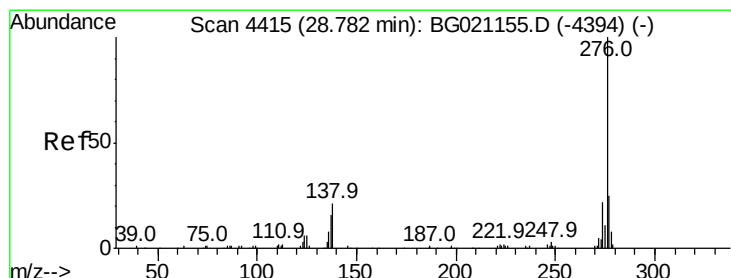
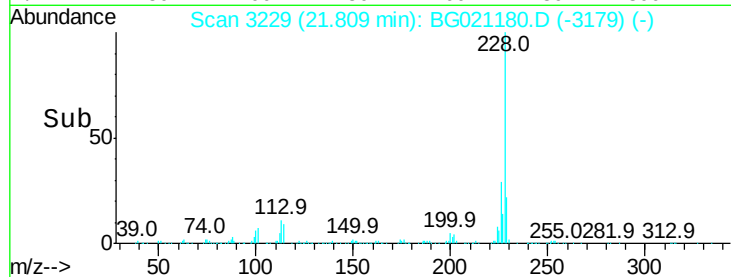
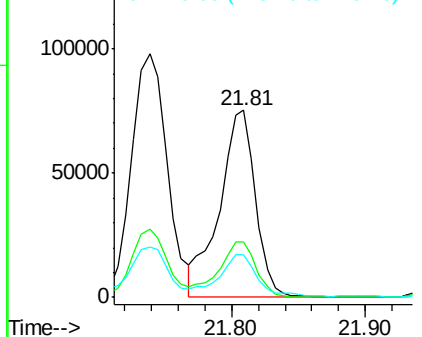
Tot Ion:	228	Resp:	140427
Ion Ratio	Lower	Upper	
228	100		
226	29.4	23.7	35.5
229	22.8	16.7	25.1

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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: 12.49 ng m

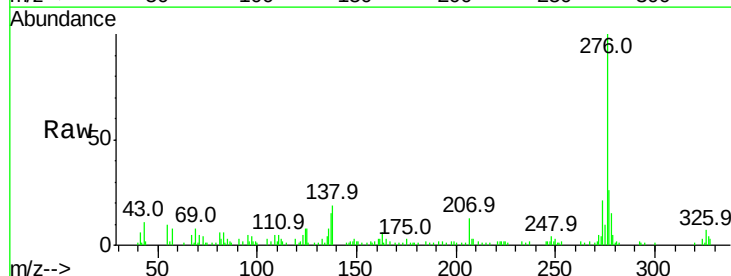
RT: 28.77 min Scan# 4413

Delta R.T. -0.02 min

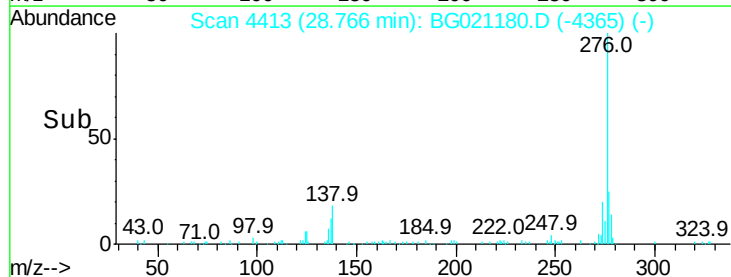
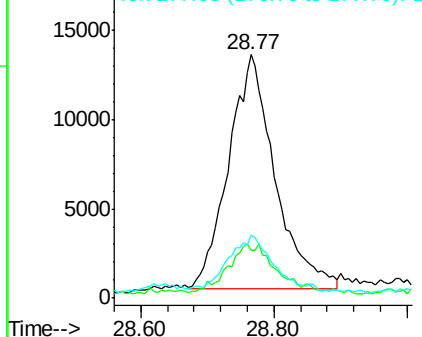
Lab File: BG021180.D

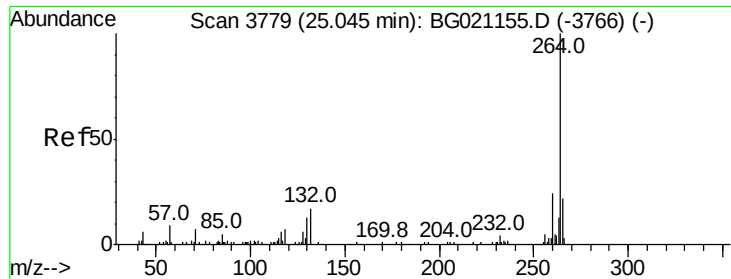
Acq: 1 Mar 2016 9:27

Tgt Ion:	276	Resp:	64150
Ion Ratio	Lower	Upper	
276	100		
138	0.0	0.0	0.0
277	0.0	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





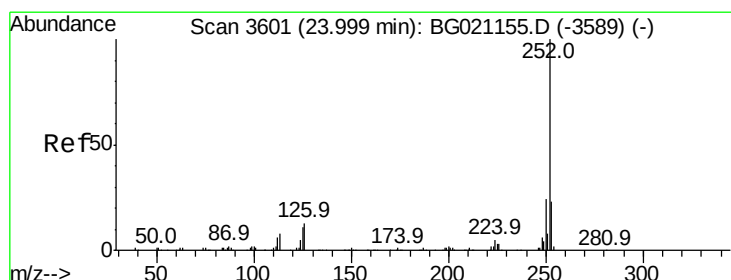
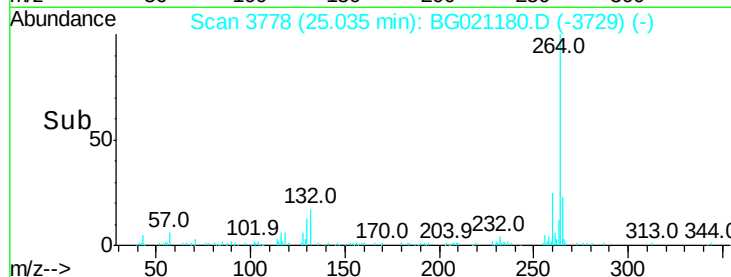
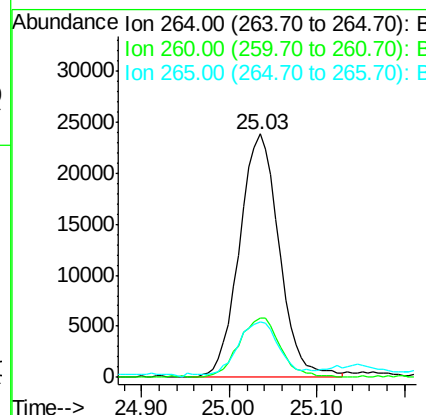
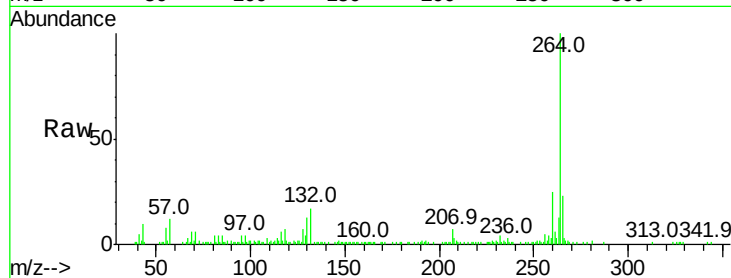
#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 25.03 min Scan# 3778
 Delta R.T. -0.01 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tot Ion:	264	Resp:	73918
Ion Ratio	Lower	Upper	
264	100		
260	24.6	18.5	27.7
265	22.8	18.6	28.0

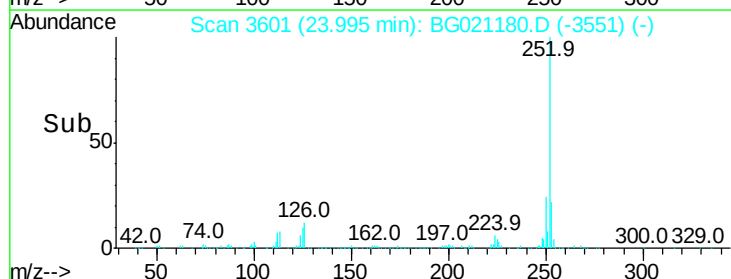
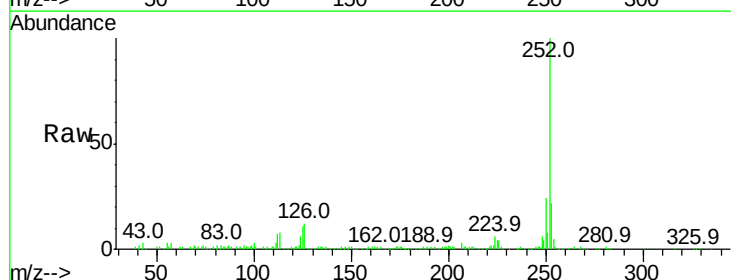
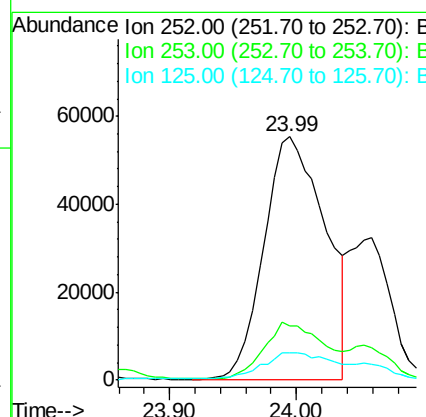
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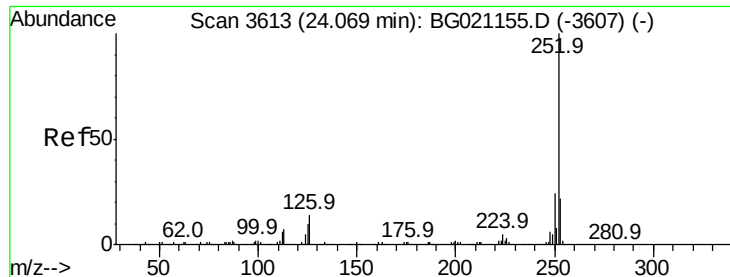
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#87
 Benzo(b)fluoranthene
 Concen: 40.07 ng
 RT: 23.99 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion:	252	Resp:	186292
Ion Ratio	Lower	Upper	
252	100		
253	22.2	16.8	25.2
125	11.0	8.2	12.2





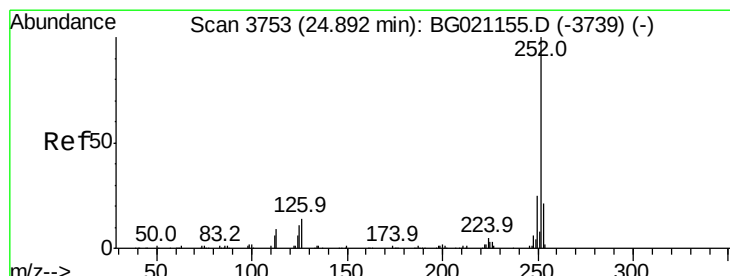
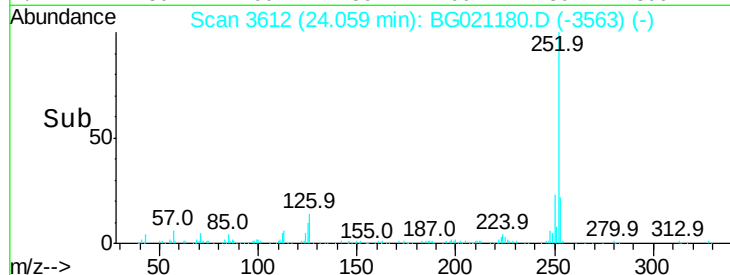
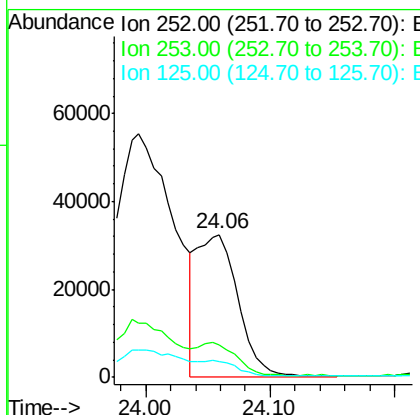
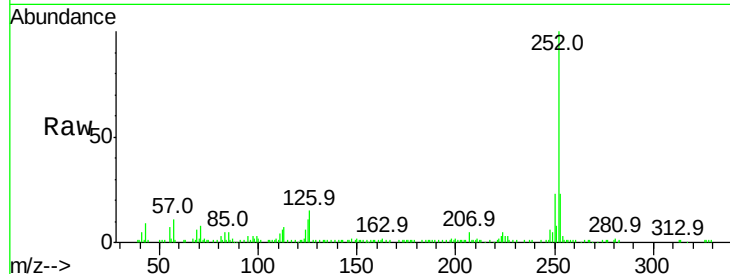
#88
Benzo(k)fluoranthene
Concen: 16.02 ng m
RT: 24.06 min Scan# 3612
Delta R.T. -0.01 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	16.4	24.6
125	11.0	8.2	12.2

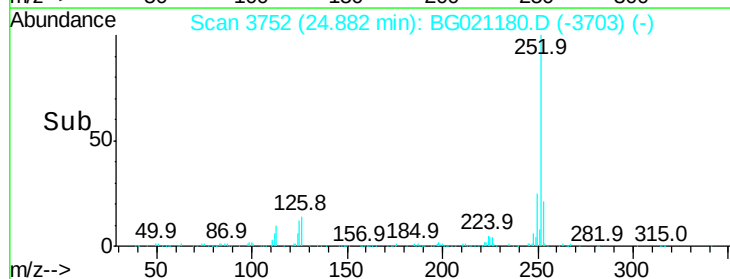
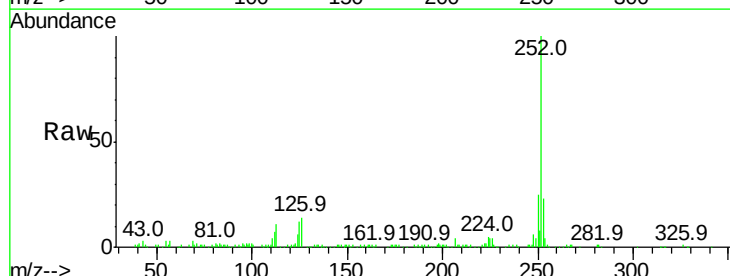
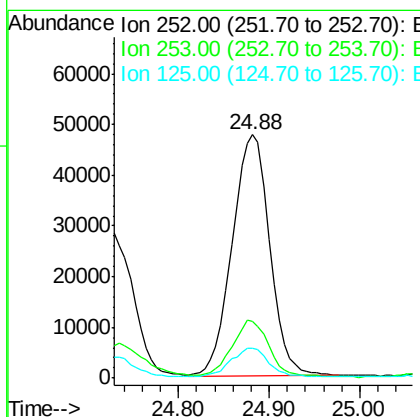
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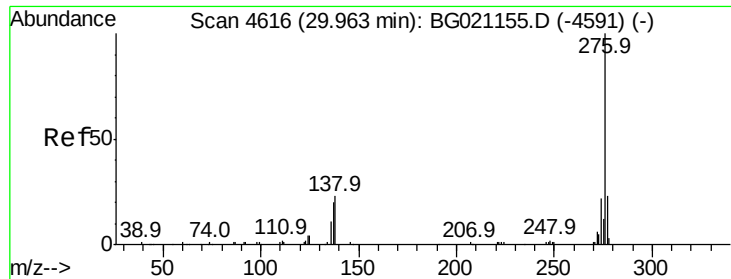
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#89
Benzo(a)pyrene
Concen: 30.34 ng
RT: 24.88 min Scan# 3752
Delta R.T. -0.01 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	15.8	23.8
125	12.4	8.4	12.6





#91
 Benzo(a,h,i)perylene
 Concen: 14.99 ng m
 RT: 29.93 min Scan# 4612
 Delta R.T. -0.03 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	16.6	25.0#
138	22.5	14.6	21.8#

Manual Integrations
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