

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060915\
 Data File : BG017595.D
 Acq On : 10 Jun 2015 5:35
 Operator : TP/IZ
 Sample : G2450-05DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SEC-3.4-SPDL

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Quant Time: Jun 10 07:07:49 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 10 05:08:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	17178	20.00	ng	0.00
21) Naphthalene-d8	10.37	136	71568	20.00	ng	0.00
38) Acenaphthene-d10	14.25	164	45390	20.00	ng	0.00
63) Phenanthrene-d10	17.00	188	95765	20.00	ng	0.00
75) Chrysene-d12	21.20	240	115631	20.00	ng	0.00
86) Perylene-d12	23.42	264	119742	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	64134	65.78	ng	0.00
7) Phenol-d6	6.78	99	81804	61.58	ng	0.00
23) Nitrobenzene-d5	8.74	82	62406	43.53	ng	0.00
41) 2,4,6-Tribromophenol	15.75	330	37882	60.09	ng	0.00
44) 2-Fluorobiphenyl	12.86	172	132796	44.13	ng	0.00
78) Terphenyl-d14	19.64	244	212465	37.98	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.41	128	14514	3.88	ng	97
48) Acenaphthylene	13.97	152	12617	2.58	ng	# 89
49) Dimethylphthalate	13.70	163	10413	2.64	ng	# 95
70) Phenanthrene	17.04	178	83491	15.64	ng	96
71) Anthracene	17.13	178	29483	5.53	ng	98
72) Carbazole	17.41	167	16525	3.14	ng	97
74) Fluoranthene	19.07	202	395333	56.62	ng	99
77) Pyrene	19.43	202	346337	48.62	ng	99
80) Benzo(a)anthracene	21.18	228	191147	26.88	ng	98
82) Chrysene	21.24	228	210737m	32.72	ng	
85) Indeno(1,2,3-cd)pyrene	25.67	276	94133	11.64	ng	# 90
87) Benzo(b)fluoranthene	22.75	252	276903	36.49	ng	96
88) Benzo(k)fluoranthene	22.79	252	85065m	11.71	ng	
89) Benzo(a)pyrene	23.32	252	149547	21.49	ng	98
90) Dibenzo(a,h)anthracene	25.68	278	27034	3.74	ng	95
91) Benzo(g,h,i)perylene	26.35	276	77919	11.32	ng	# 93

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

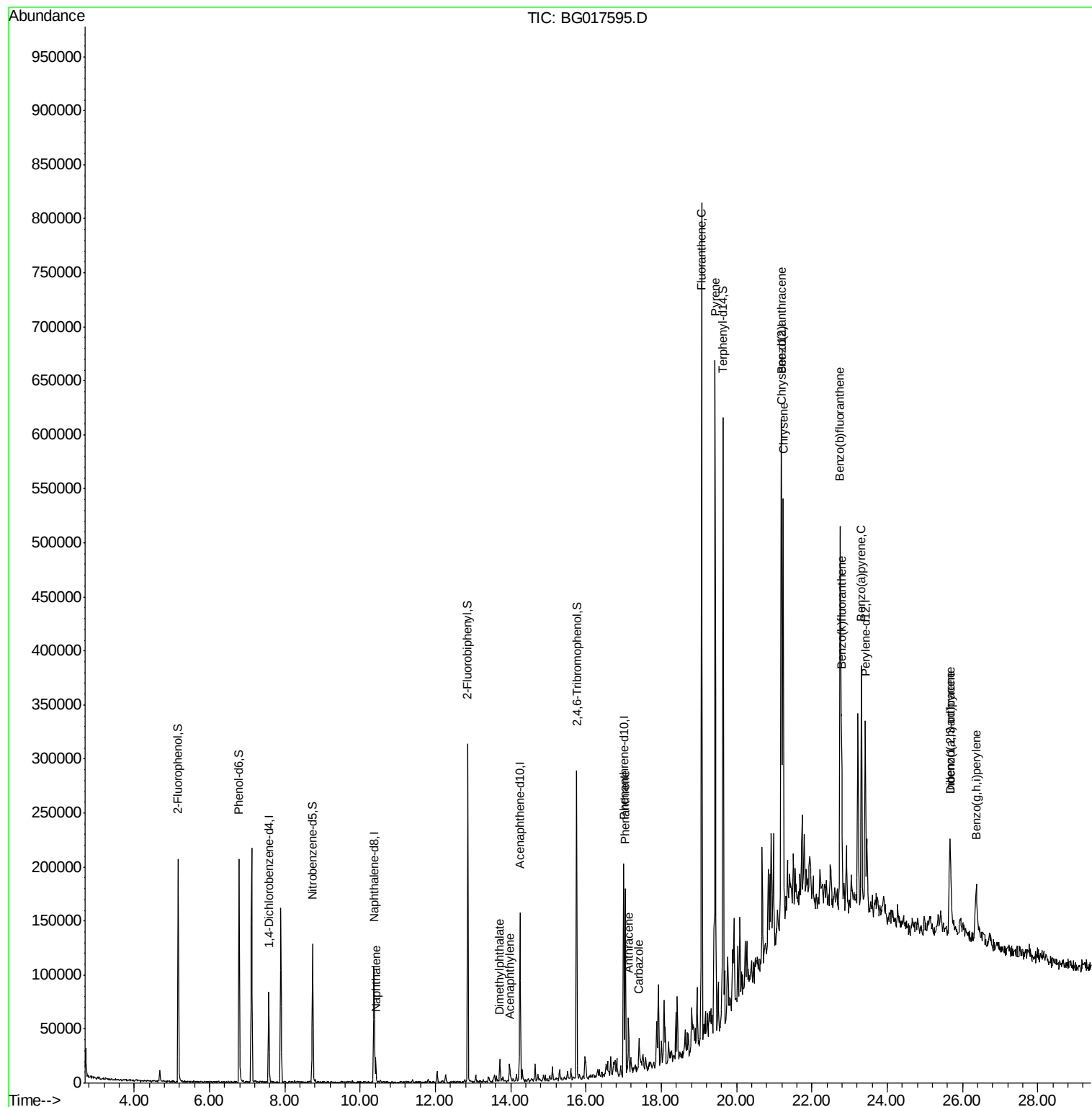
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060915\
Data File : BG017595.D
Acq On : 10 Jun 2015 5:35
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Misc :
ALS Vial : 22 Sample Multiplier: 1

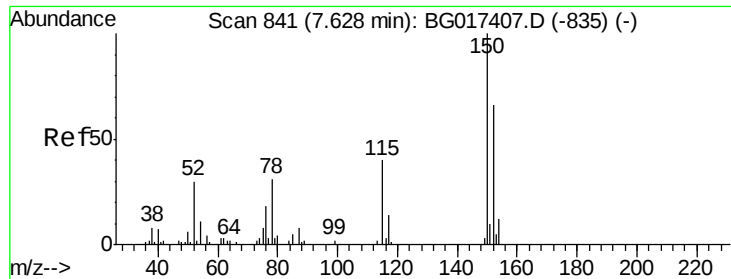
Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

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Quant Time: Jun 10 07:07:49 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 10 05:08:16 2015
Response via : Initial Calibration

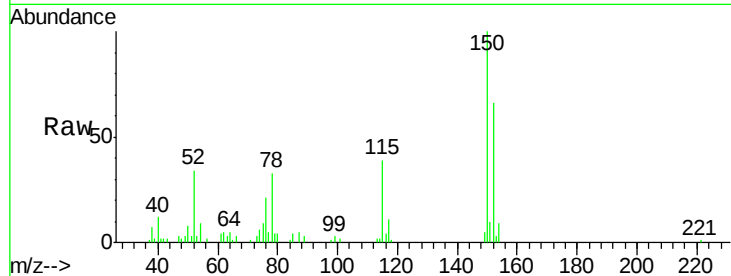




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.57 min Scan# 831
Delta R.T. 0.00 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

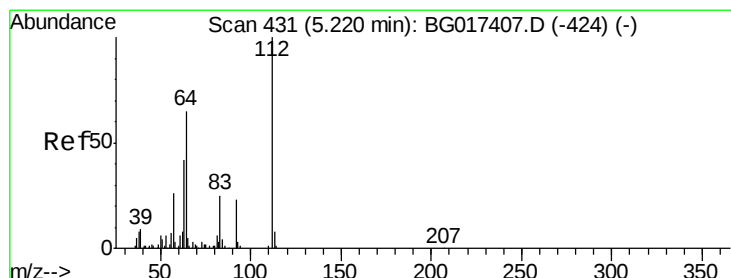
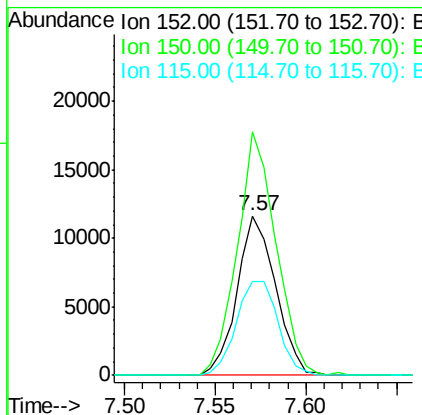
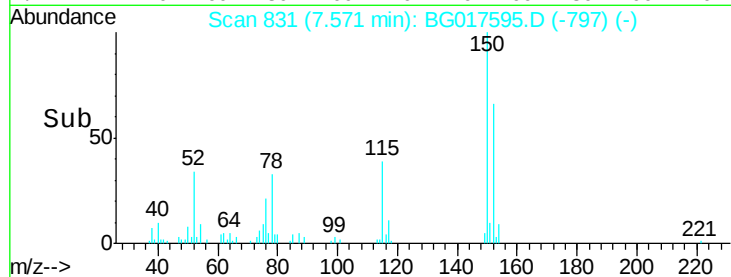
Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL



Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.6	121.7	182.5
115	59.0	48.6	73.0

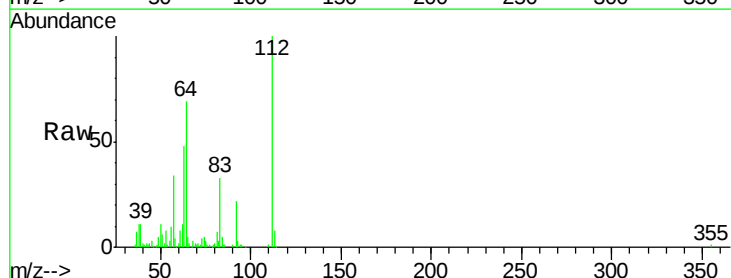
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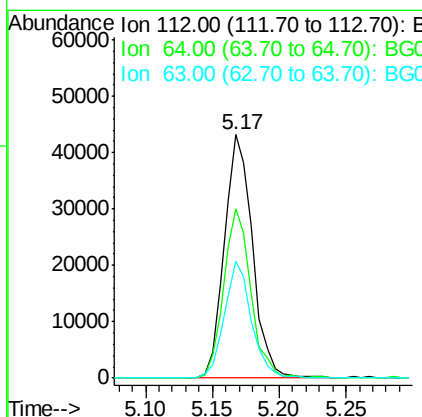
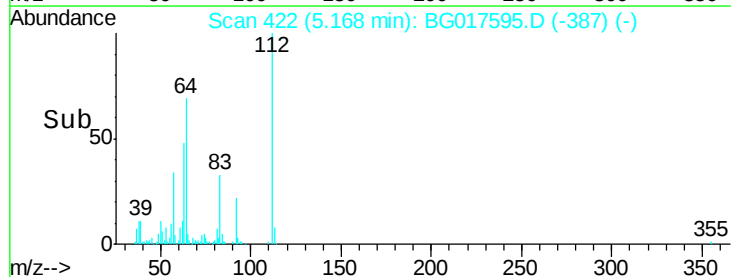


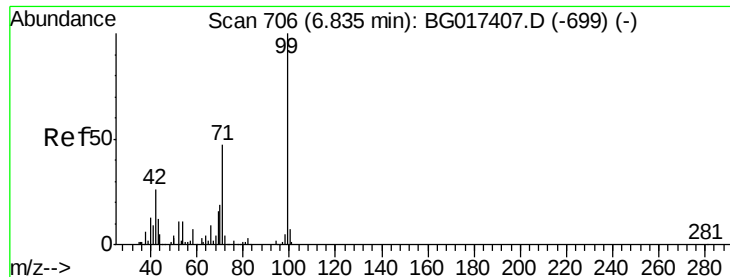
#5

2-Fluorophenol
Concen: 65.78 ng
RT: 5.17 min Scan# 422
Delta R.T. 0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35



Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.5	51.6	77.4
63	47.8	33.3	49.9





#7

Phenol-d6

Concen: 61.58 ng

RT: 6.78 min Scan# 697

Delta R.T. 0.00 min

Lab File: BG017595.D

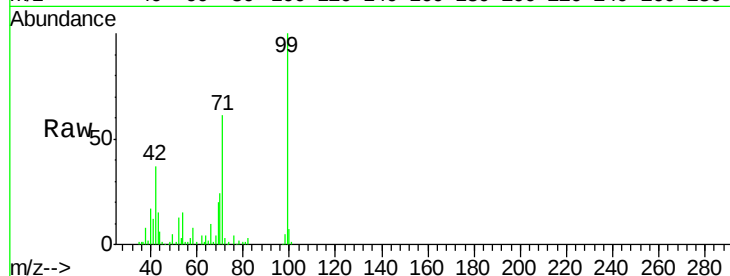
Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

ClientSampleId :

SEC-3.4-SPDL



Tgt Ion: 99 Resp: 81804

Ion Ratio Lower Upper

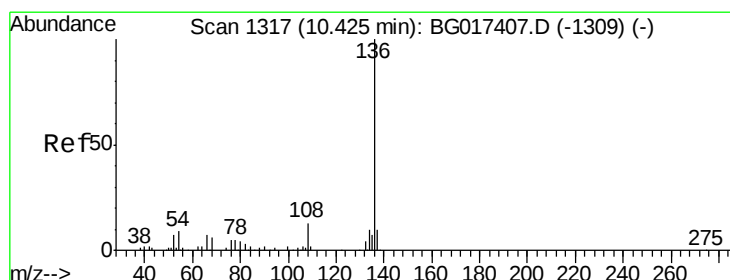
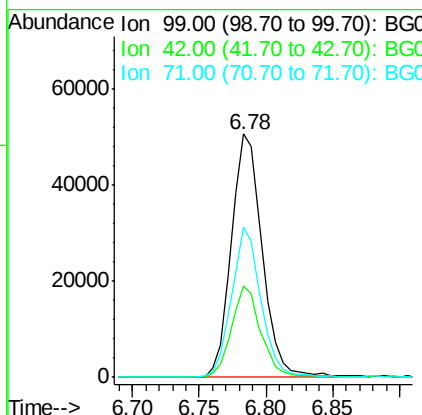
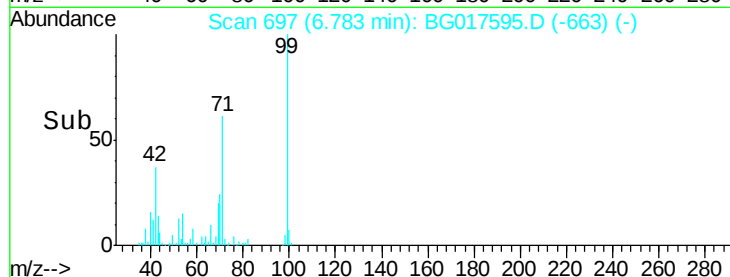
99 100

42 37.3 21.0 31.6#

71 61.5 37.2 55.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.37 min Scan# 1307

Delta R.T. 0.00 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt Ion: 136 Resp: 71568

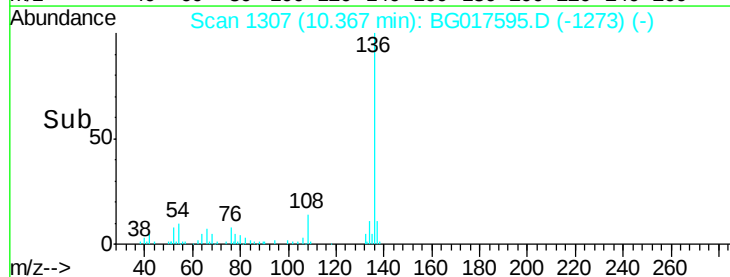
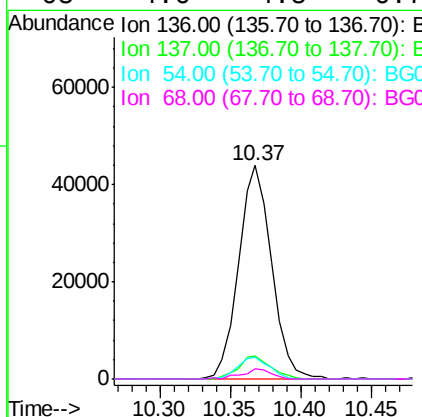
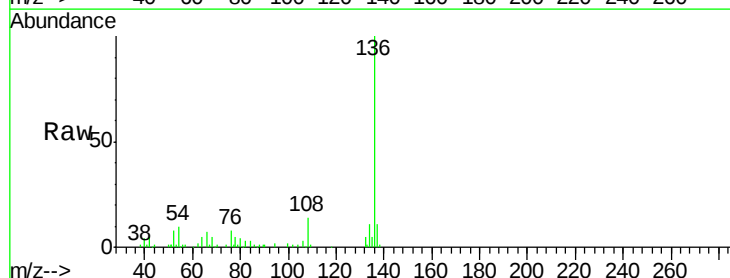
Ion Ratio Lower Upper

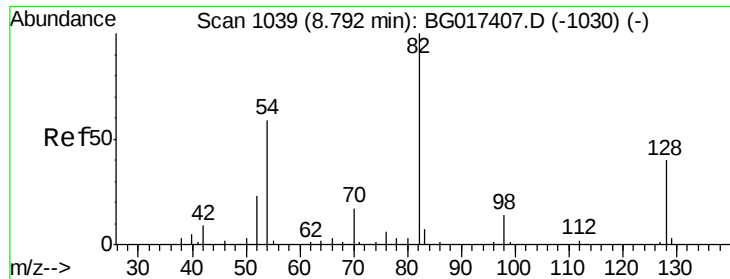
136 100

137 10.6 7.9 11.9

54 10.4 7.2 10.8

68 4.6 4.5 6.7





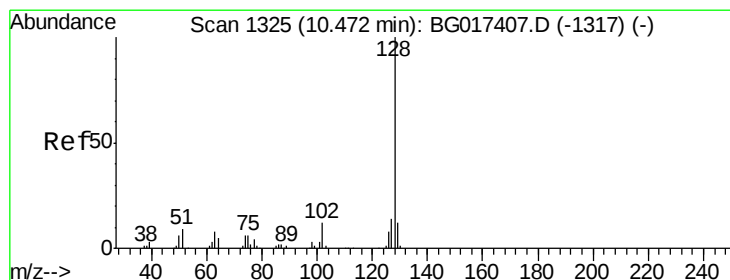
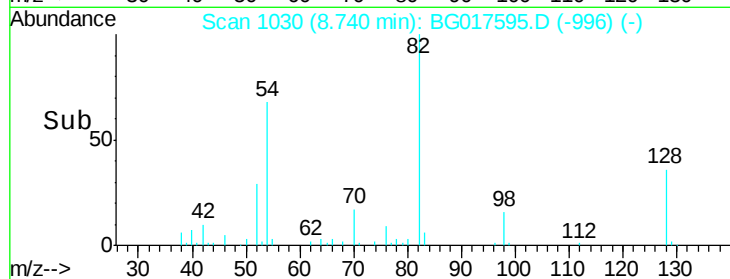
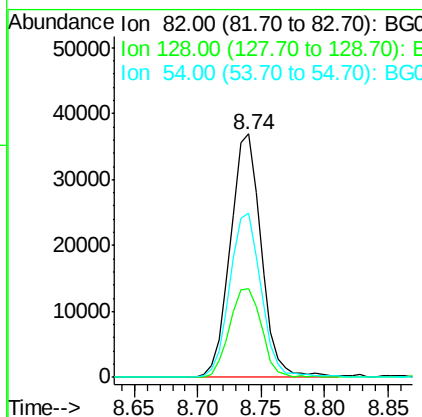
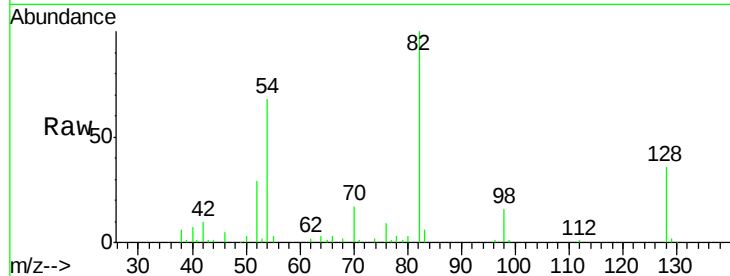
#23
Nitrobenzene-d5
Concen: 43.53 ng
RT: 8.74 min Scan# 1030
Delta R.T. 0.00 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	36.3	32.2	48.4
54	67.6	47.4	71.2

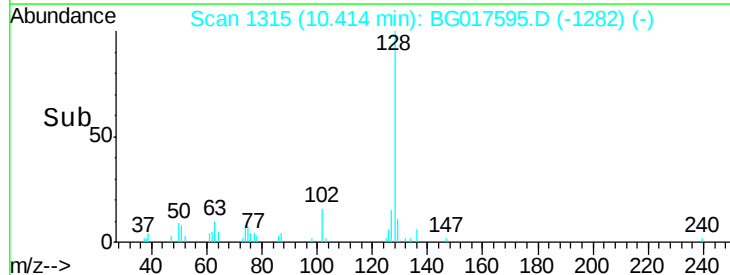
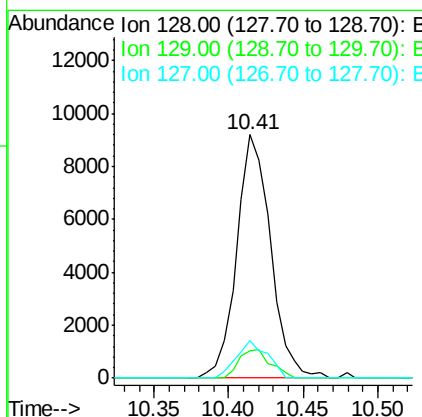
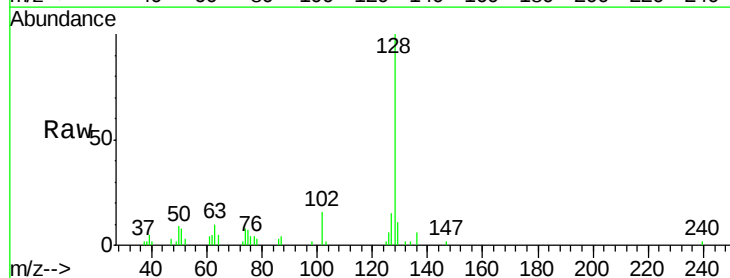
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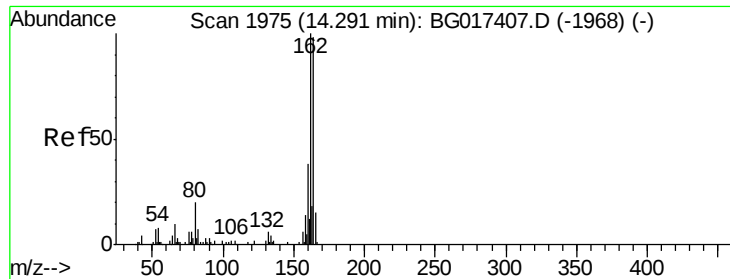
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#31
Naphthalene
Concen: 3.88 ng
RT: 10.41 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.2	13.8
127	15.4	10.9	16.3





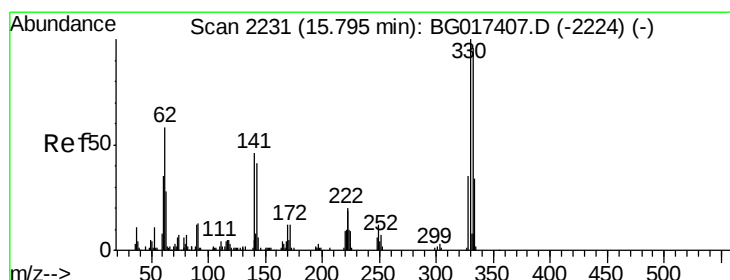
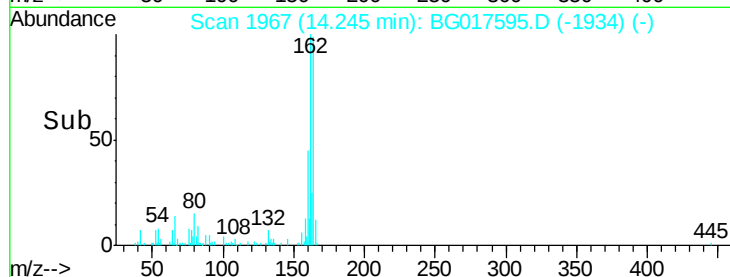
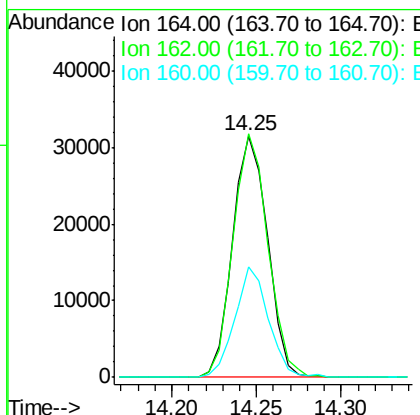
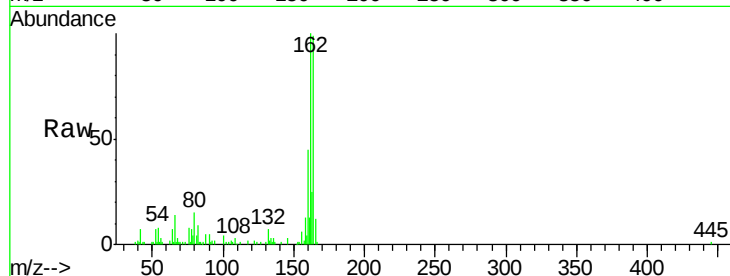
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.25 min Scan# 1967
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	45390		
162	100.8	81.8	122.6	
160	45.8	31.0	46.4	

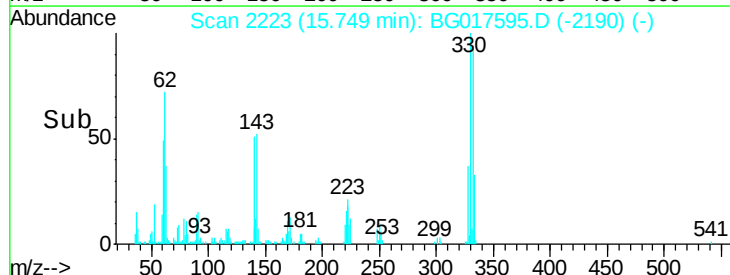
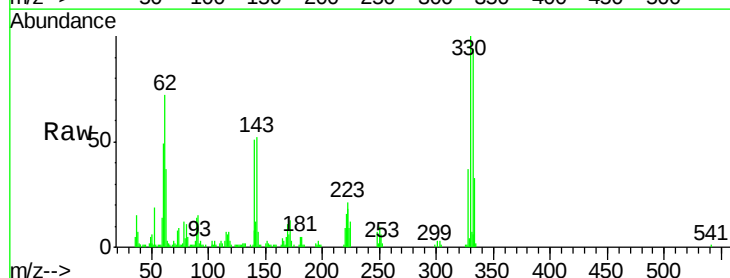
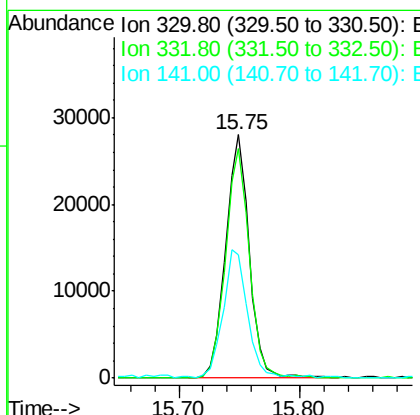
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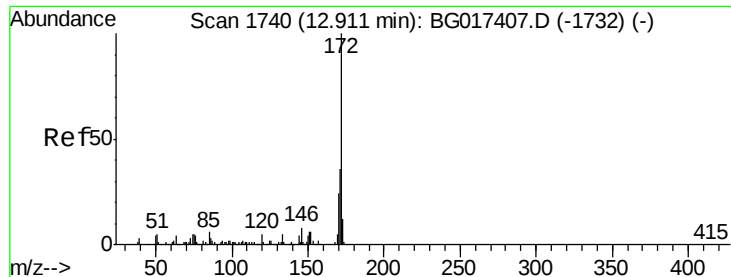
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#41
2,4,6-Tribromophenol
Concen: 60.09 ng
RT: 15.75 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	37882		
332	95.3	75.9	113.9	
141	55.2	40.2	60.4	





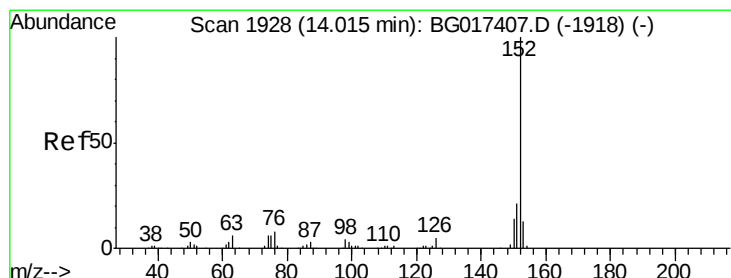
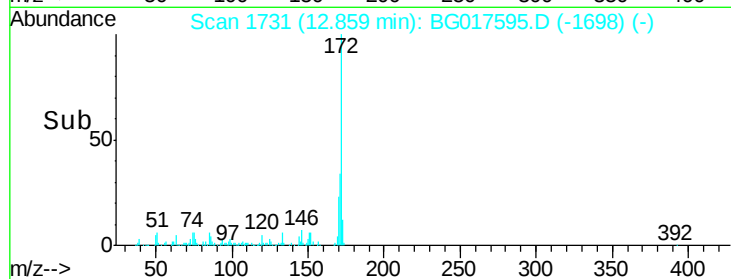
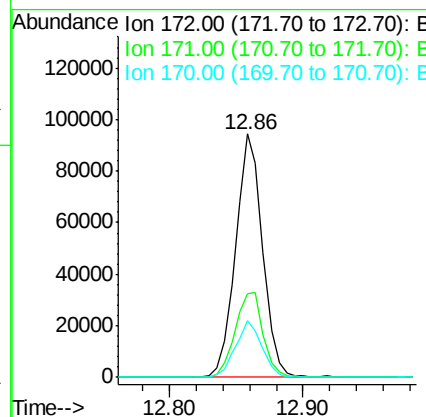
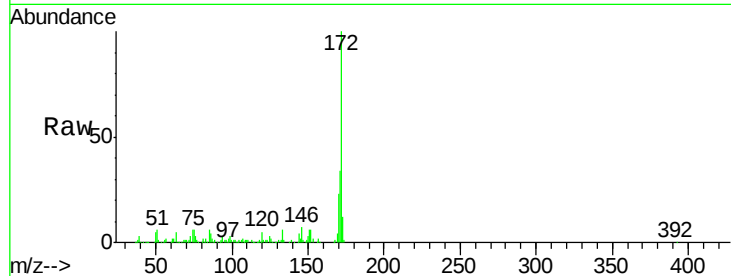
#44
 2-Fluorobiphenyl
 Concen: 44.13 ng
 RT: 12.86 min Scan# 1731
 Delta R.T. -0.01 min
 Lab File: BG017595.D
 Acq: 10 Jun 2015 5:35

Instrument :
 BNA_G
 ClientSampleId :
 SEC-3.4-SPDL

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	132796		
171	34.2	29.0	43.6	
170	23.4	18.9	28.3	

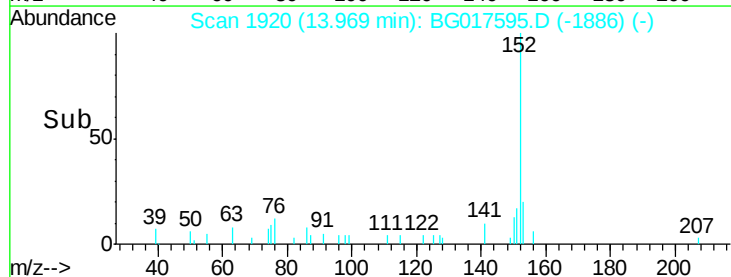
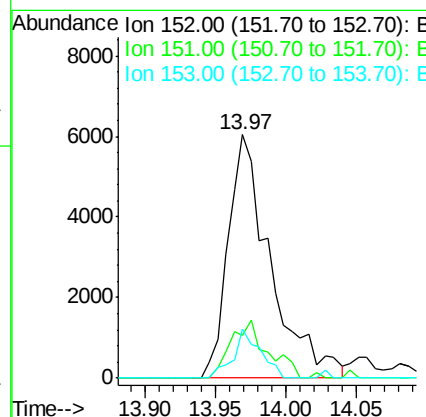
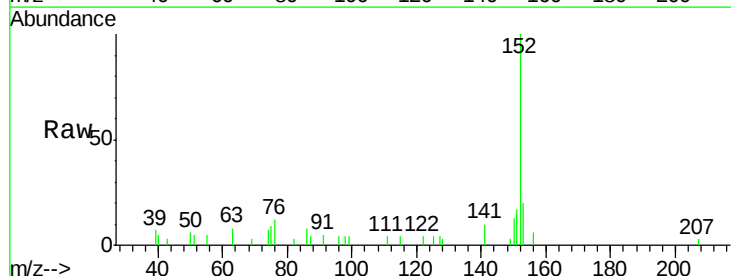
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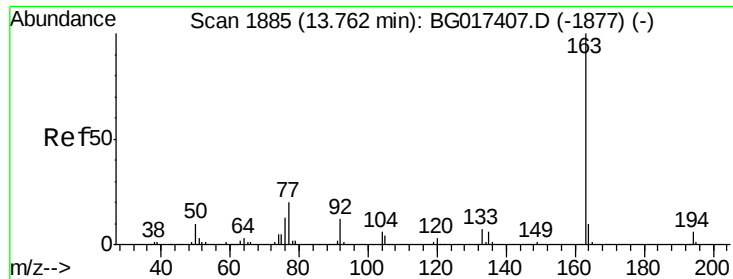
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#48
 Acenaphthylene
 Concen: 2.58 ng
 RT: 13.97 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: BG017595.D
 Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	12617		
151	17.4	16.5	24.7	
153	20.0	10.7	16.1	#





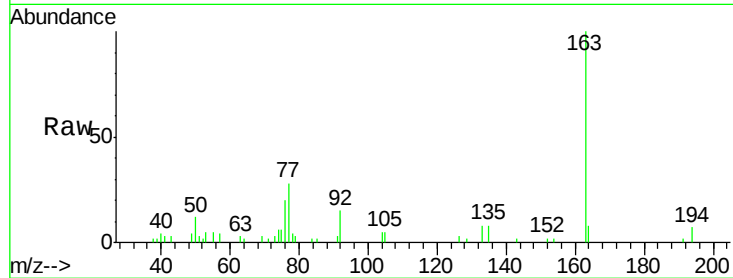
#49
Dimethylphthalate
Concen: 2.64 ng
RT: 13.70 min Scan# 1875
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

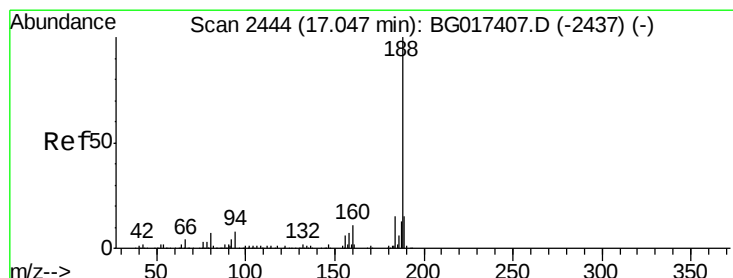
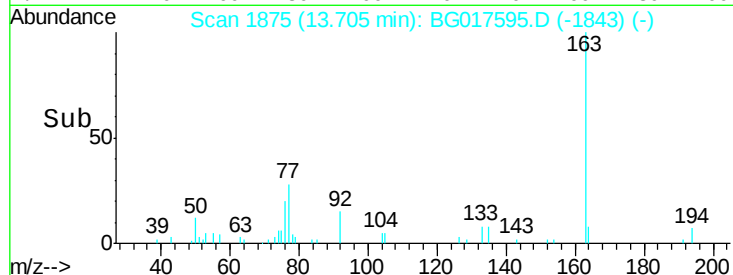
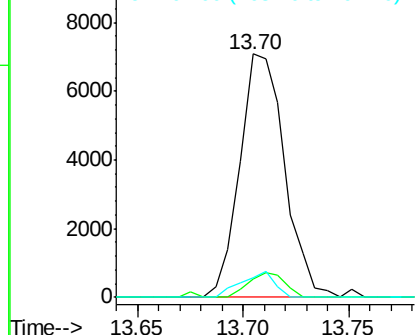
Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	7.4	4.9	7.3#
164	8.3	8.2	12.2

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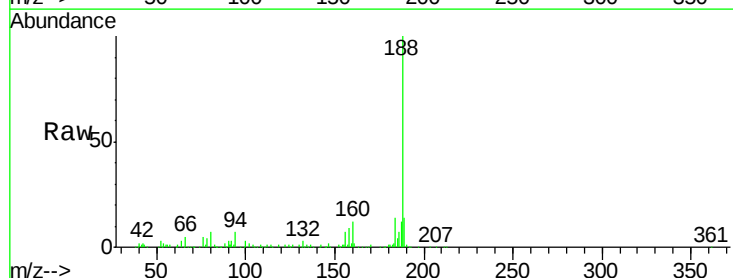


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

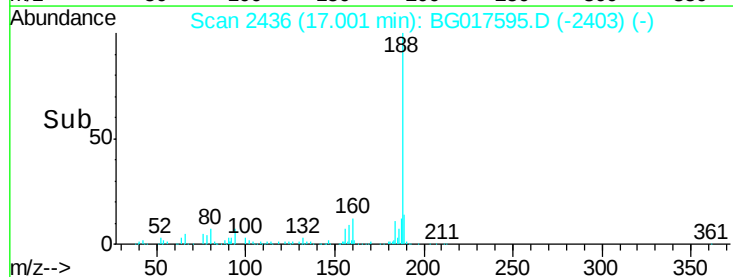
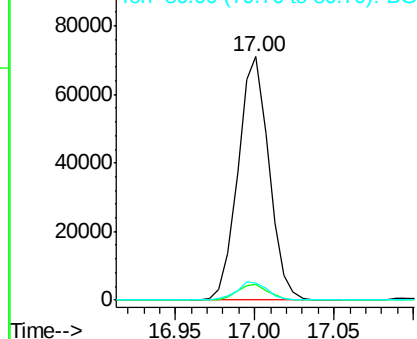


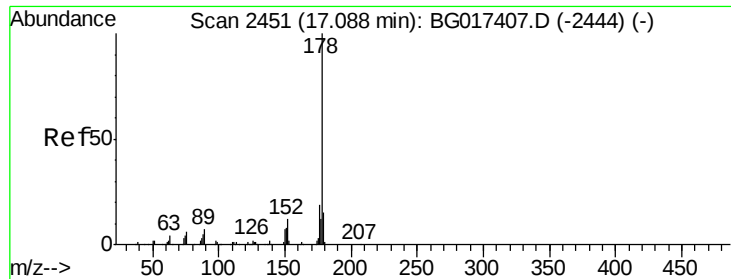
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.00 min Scan# 2436
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	6.6	6.3	9.5
80	6.9	5.2	7.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 15.64 ng

RT: 17.04 min Scan# 2443

Delta R.T. -0.01 min

Lab File: BG017595.D

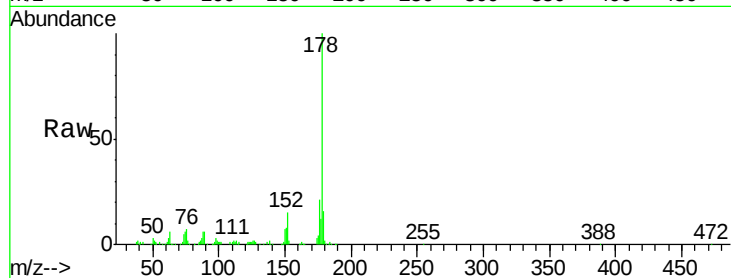
Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

ClientSampleId :

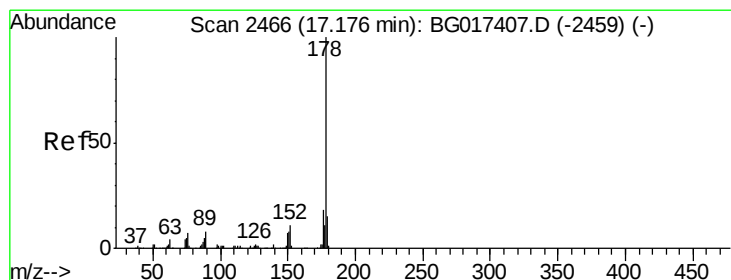
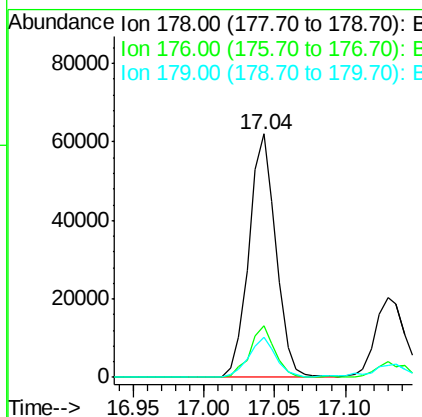
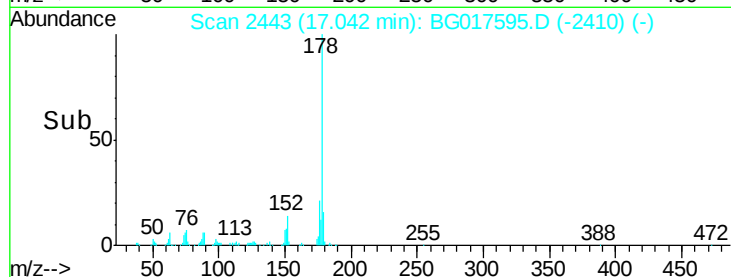
SEC-3.4-SPDL



Tgt Ion:	178	Resp:	83491
Ion Ratio	Lower	Upper	
178	100		
176	21.4	15.6	23.4
179	16.4	12.2	18.2

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#71

Anthracene

Concen: 5.53 ng

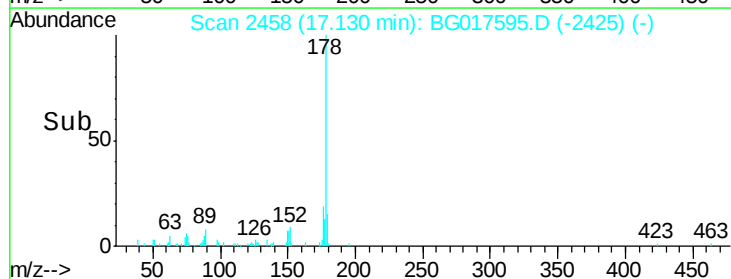
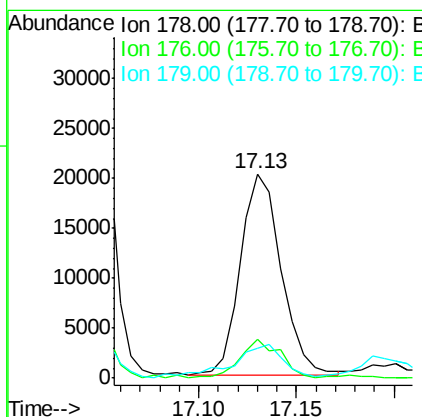
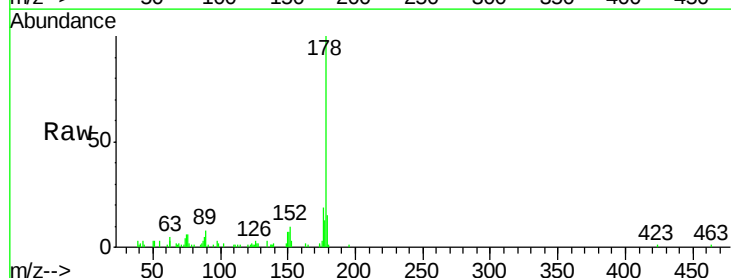
RT: 17.13 min Scan# 2458

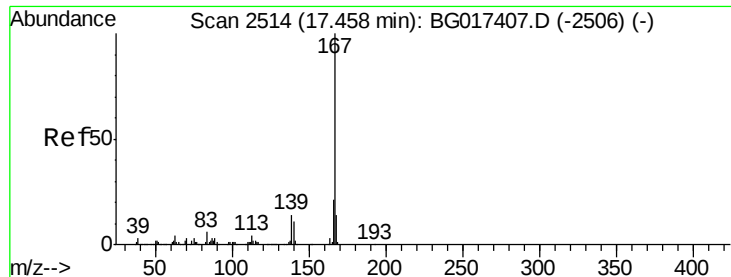
Delta R.T. -0.01 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt Ion:	178	Resp:	29483
Ion Ratio	Lower	Upper	
178	100		
176	19.2	14.2	21.2
179	14.8	12.2	18.4





#72

Carbazole

Concen: 3.14 ng

RT: 17.41 min Scan# 2506

Delta R.T. -0.01 min

Lab File: BG017595.D

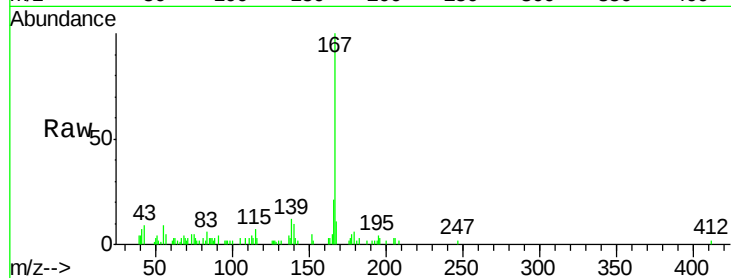
Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

ClientSampleId :

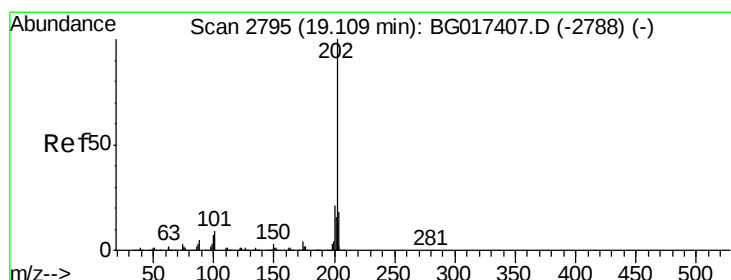
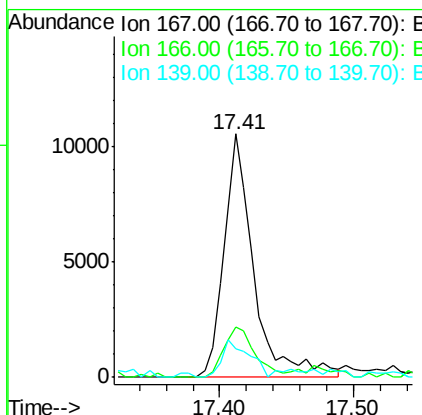
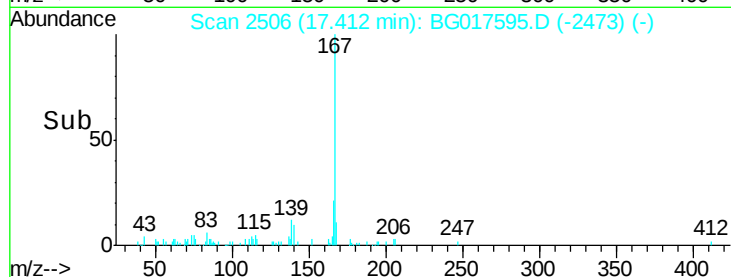
SEC-3.4-SPDL



Tgt Ion:	167	Resp:	16525
Ion Ratio	Lower	Upper	
167	100		
166	20.8	17.0	25.4
139	11.7	11.3	16.9

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#74

Fluoranthene

Concen: 56.62 ng

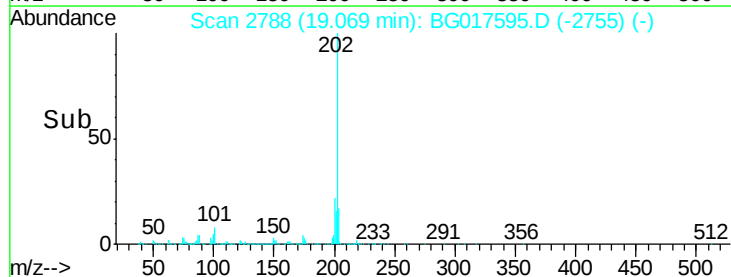
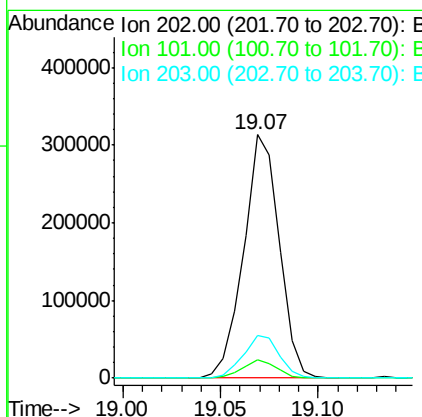
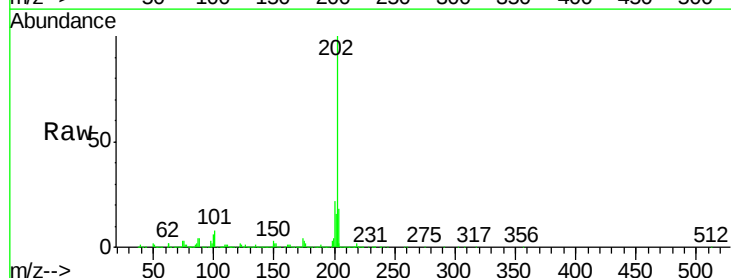
RT: 19.07 min Scan# 2788

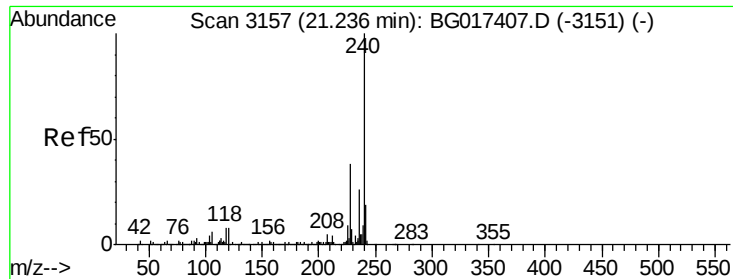
Delta R.T. -0.01 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt Ion:	202	Resp:	395333
Ion Ratio	Lower	Upper	
202	100		
101	7.8	0.0	28.8
203	17.6	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.20 min Scan# 3151

Delta R.T. 0.00 min

Lab File: BG017595.D

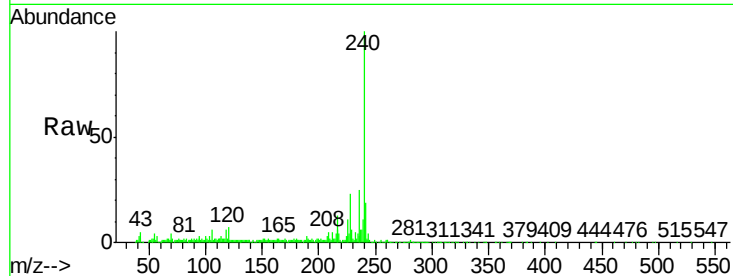
Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

ClientSampleId :

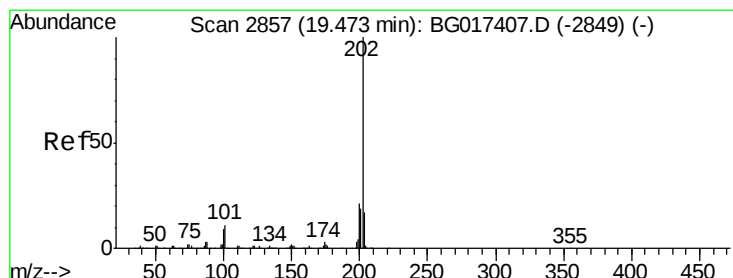
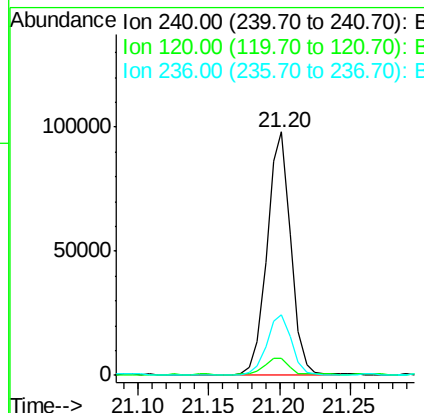
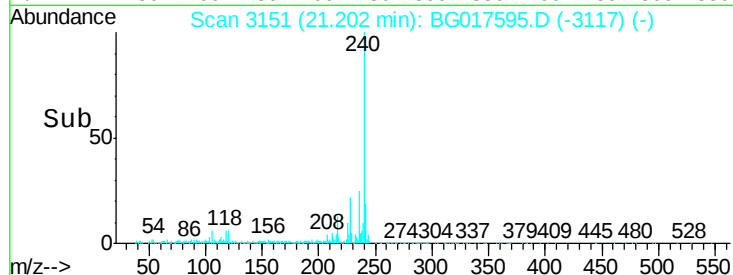
SEC-3.4-SPDL



Tgt Ion:	240	Resp:	115631
Ion Ratio	Lower	Upper	
240	100		
120	6.8	6.5	9.7
236	25.0	20.8	31.2

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#77

Pyrene

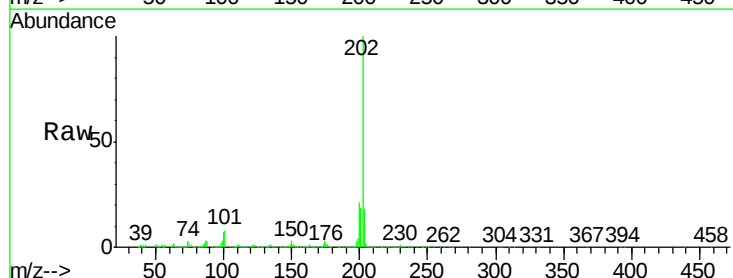
Concen: 48.62 ng

RT: 19.43 min Scan# 2850

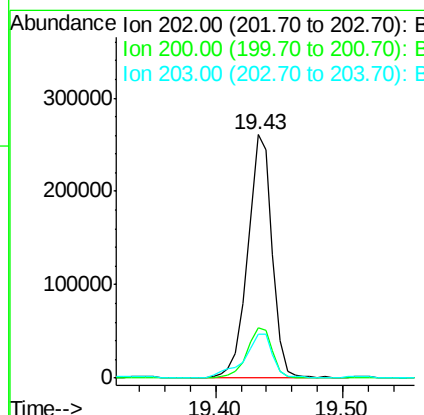
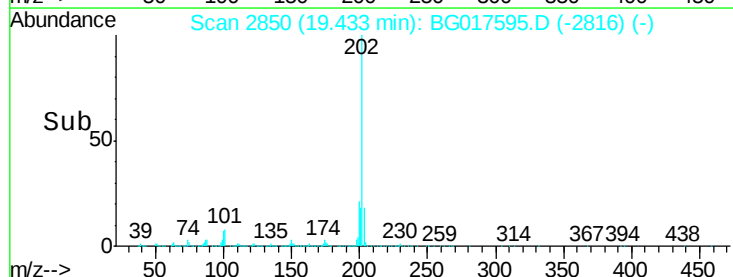
Delta R.T. 0.00 min

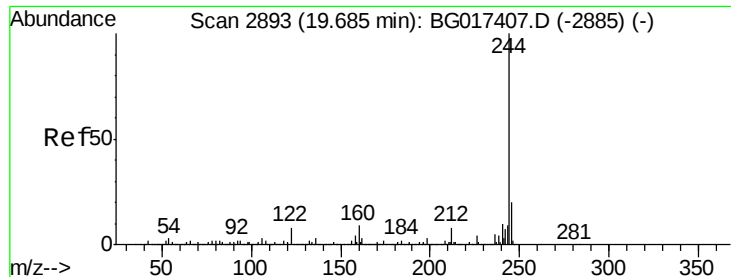
Lab File: BG017595.D

Acq: 10 Jun 2015 5:35



Tgt Ion:	202	Resp:	346337
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.4
203	18.1	13.9	20.9





#78

Terphenyl-d14

Concen: 37.98 ng

RT: 19.64 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BG017595.D

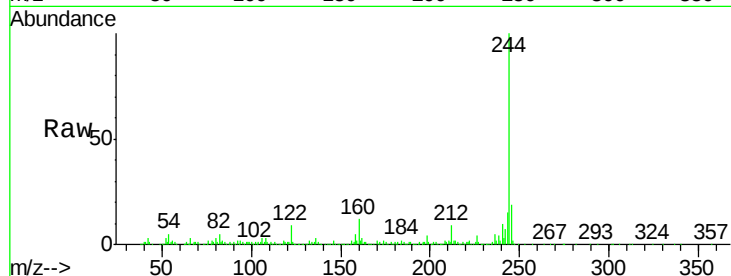
Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

ClientSampleId :

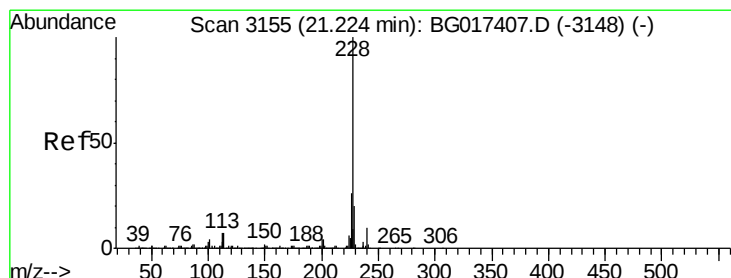
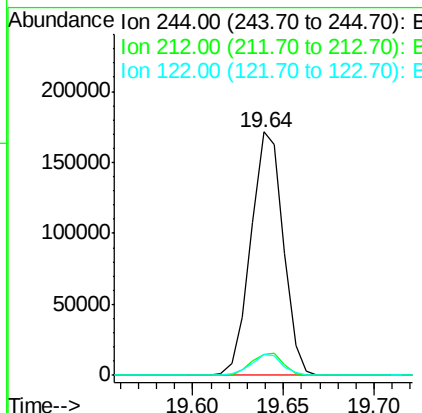
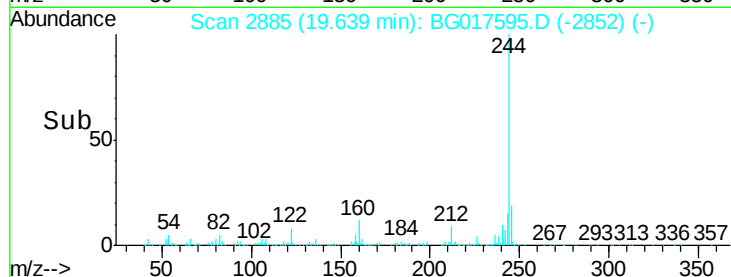
SEC-3.4-SPDL



Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.6	6.4	9.6
122	8.7	6.6	10.0

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#80

Benzo(a)anthracene

Concen: 26.88 ng

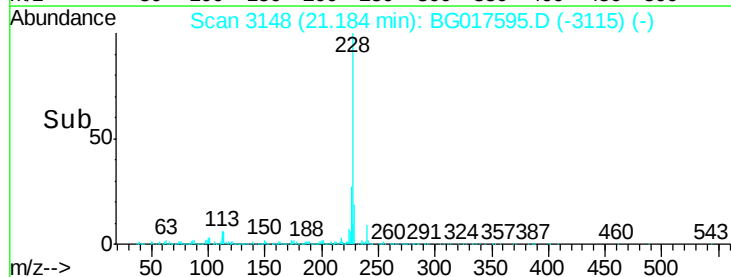
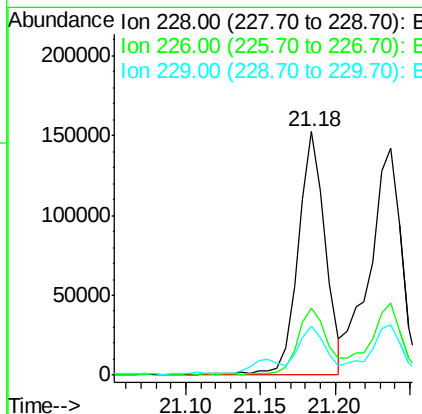
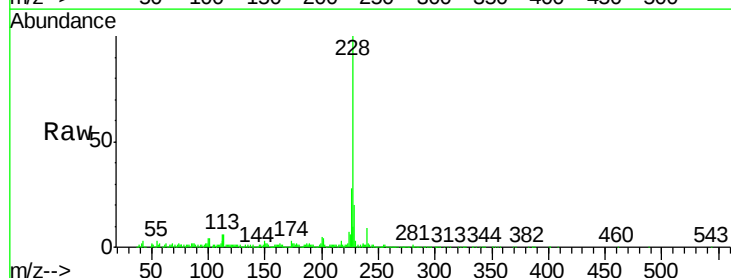
RT: 21.18 min Scan# 3148

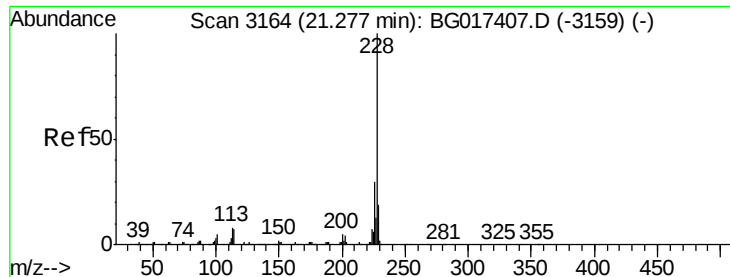
Delta R.T. -0.01 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	27.6	21.0	31.6
229	20.0	15.7	23.5





#82

Chrysene

Concen: 32.72 ng m

RT: 21.24 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

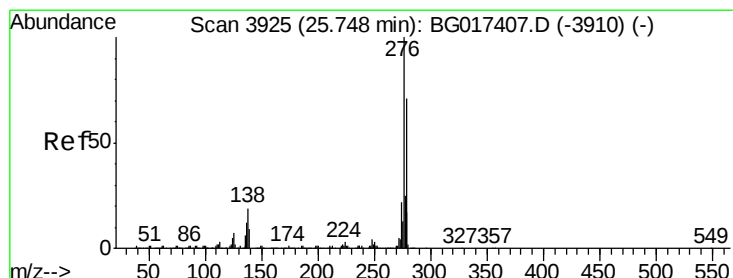
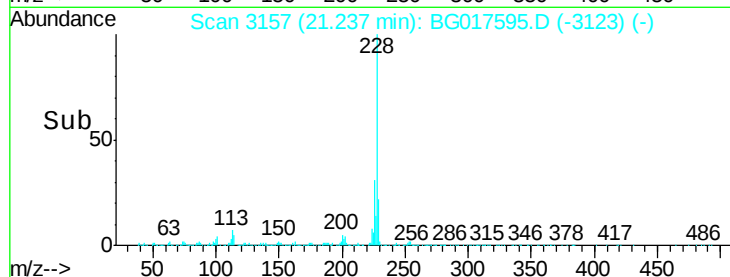
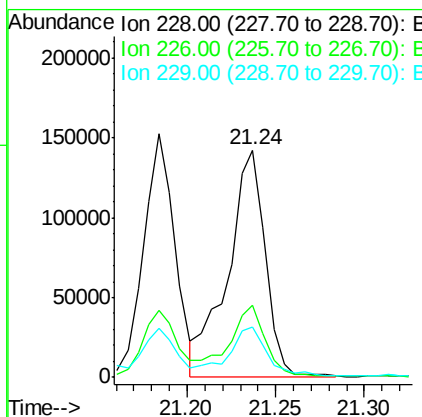
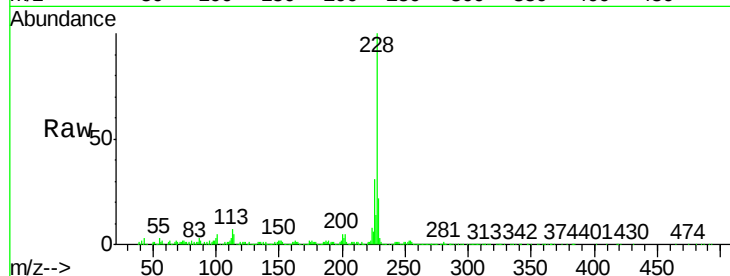
ClientSampleId :

SEC-3.4-SPDL

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	31.5	23.7	35.5	
229	22.3	15.2	22.8	

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#85

Indeno(1,2,3-cd)pyrene

Concen: 11.64 ng

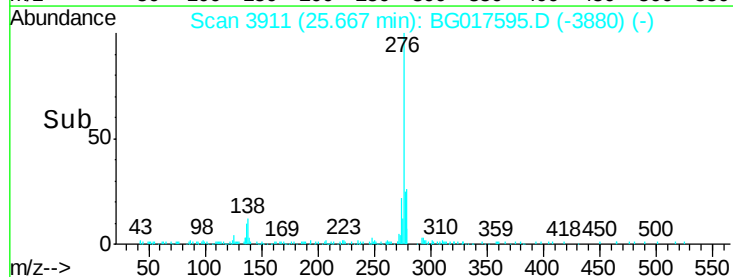
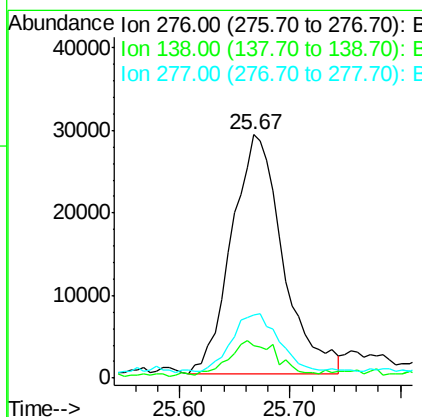
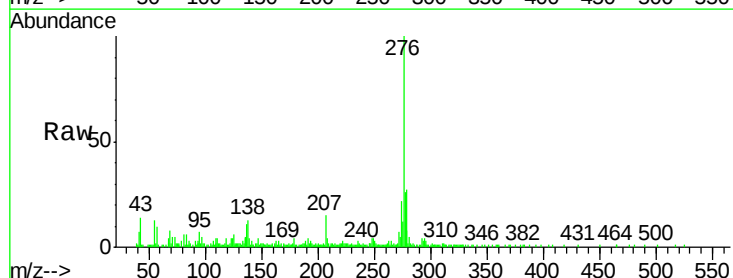
RT: 25.67 min Scan# 3911

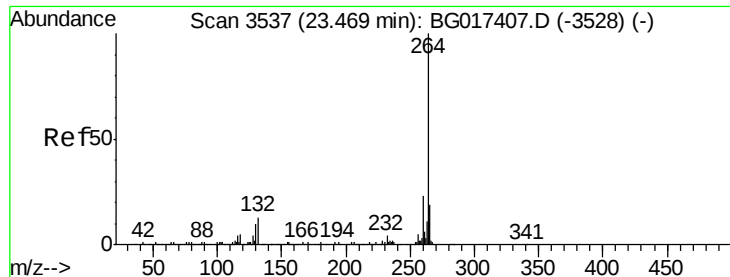
Delta R.T. -0.02 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt	Ion	Ratio	Lower	Upper
276	100			
138	12.8	15.4	23.0#	
277	22.2	20.5	30.7	





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.42 min Scan# 3528

Delta R.T. -0.01 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Instrument :

BNA_G

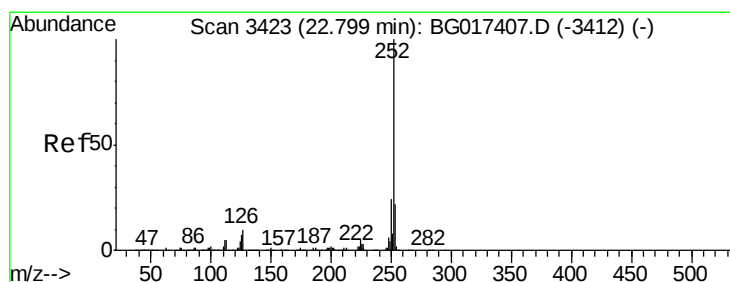
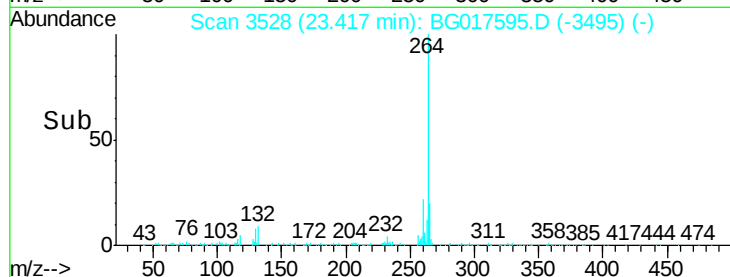
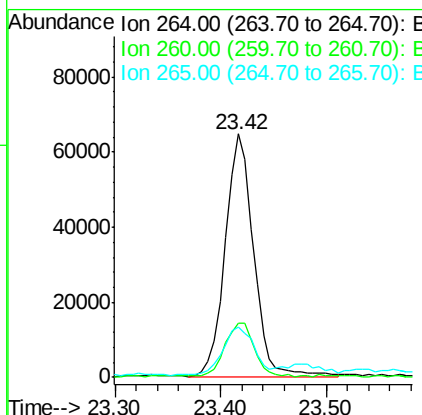
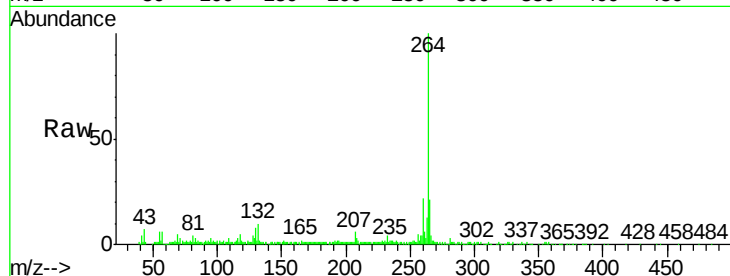
ClientSampleId :

SEC-3.4-SPDL

Tgt Ion:	264	Resp:	119742
Ion Ratio		Lower	Upper
264	100		
260	22.1	18.2	27.4
265	20.8	15.8	23.6

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#87

Benzo(b)fluoranthene

Concen: 36.49 ng

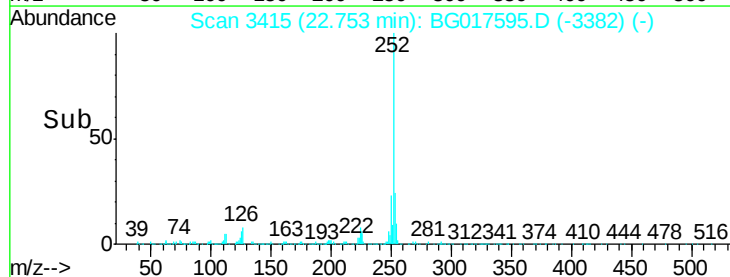
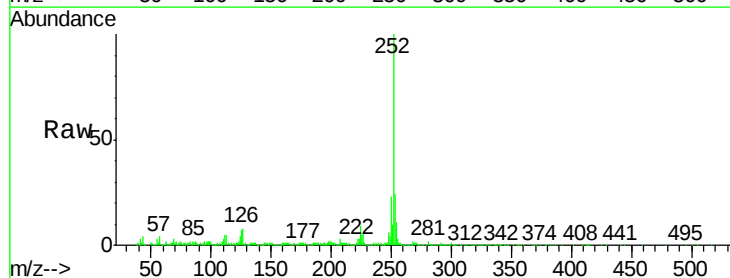
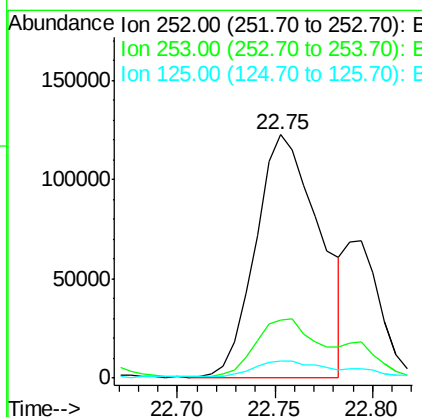
RT: 22.75 min Scan# 3415

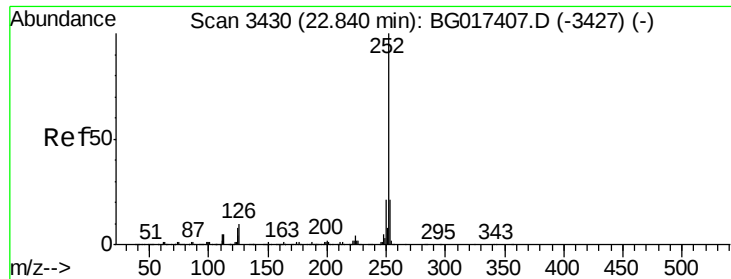
Delta R.T. -0.01 min

Lab File: BG017595.D

Acq: 10 Jun 2015 5:35

Tgt Ion:	252	Resp:	276903
Ion Ratio		Lower	Upper
252	100		
253	24.1	17.4	26.2
125	6.8	5.8	8.8





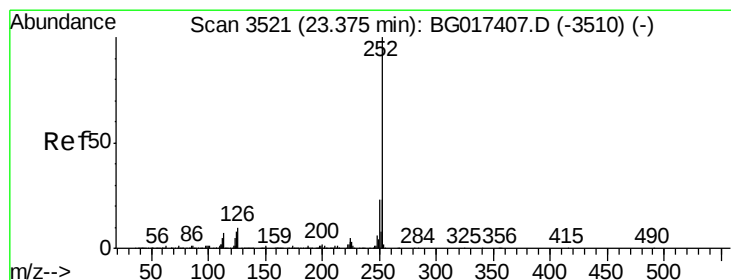
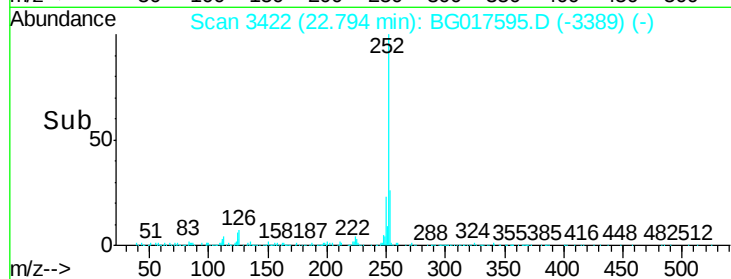
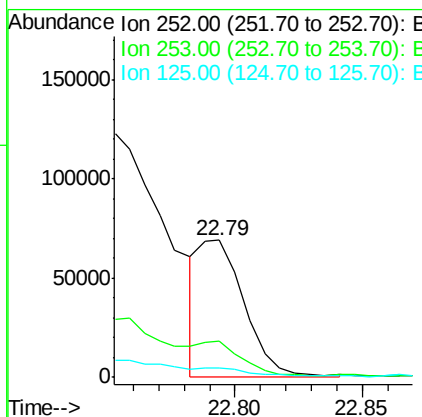
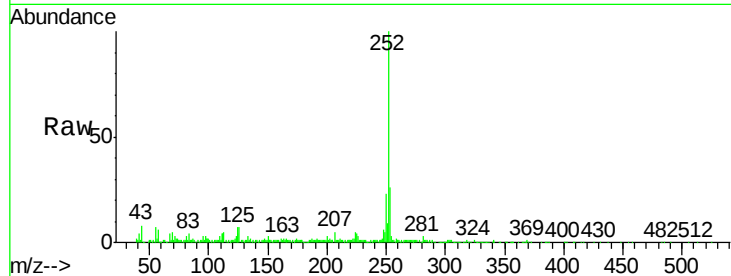
#88
Benzo(k)fluoranthene
Concen: 11.71 ng m
RT: 22.79 min Scan# 3422
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.7	26.5
125	6.9	6.5	9.7

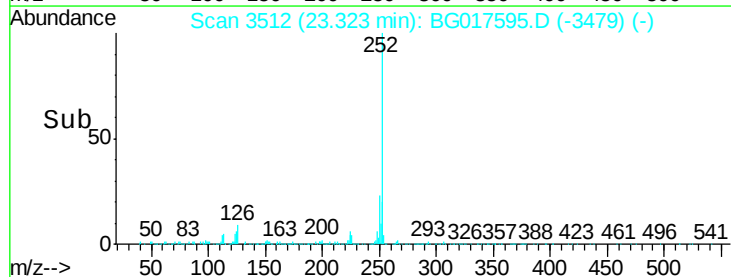
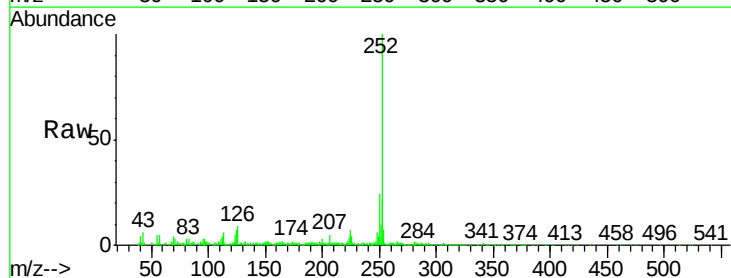
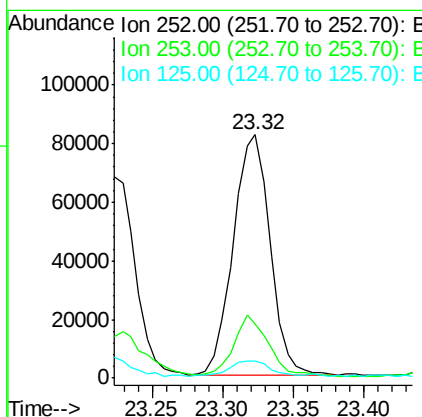
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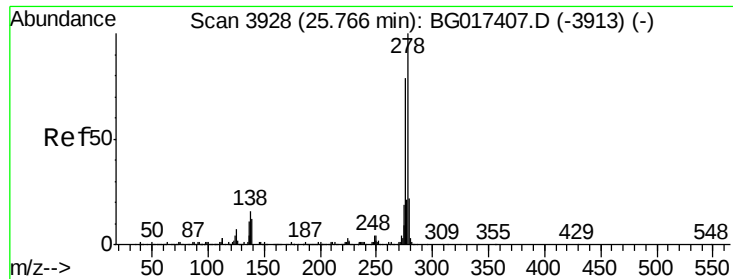
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#89
Benzo(a)pyrene
Concen: 21.49 ng
RT: 23.32 min Scan# 3512
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	7.2	6.5	9.7





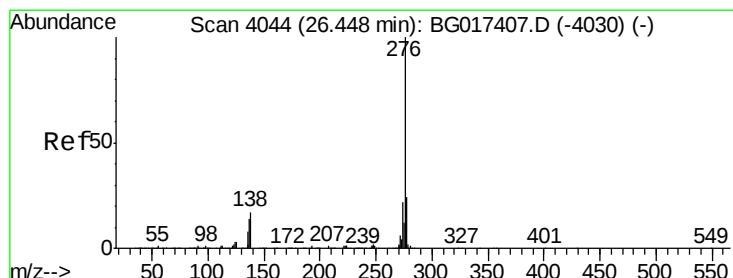
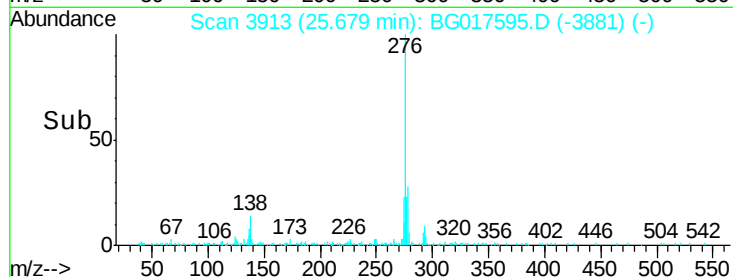
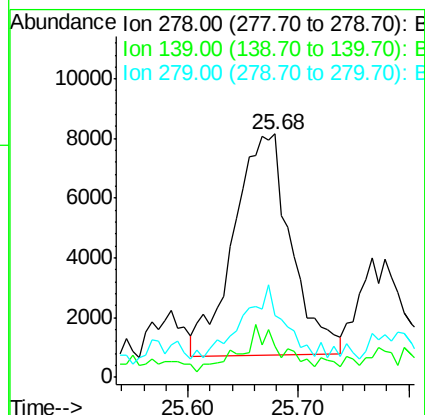
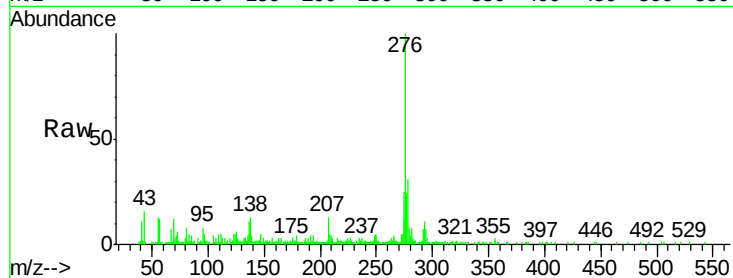
#90
Dibenzo(a,h)anthracene
Concen: 3.74 ng
RT: 25.68 min Scan# 3913
Delta R.T. -0.01 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Instrument :
BNA_G
ClientSampleId :
SEC-3.4-SPDL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	12.7	9.4	14.0
279	25.2	17.8	26.8

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 11.32 ng
RT: 26.35 min Scan# 4028
Delta R.T. -0.02 min
Lab File: BG017595.D
Acq: 10 Jun 2015 5:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.2	28.8
138	10.8	13.5	20.3

