

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG051516\
 Data File : BG021897.D
 Acq On : 15 May 2016 17:35
 Operator : UM/SJ
 Sample : H3096-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG4

Manual Integrations
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Quant Time: May 16 03:41:13 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	56631	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	274779	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.79	164	168834	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.53	188	378529	20.00	ng/ul	0.00
76) Chrysene-d12	21.82	240	386032	20.00	ng/ul	0.00
84) Perylene-d12	25.16	264	385417	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.55	96	4324	3.69	ng/uL	0.00
5) Phenol-d5	7.31	99	78029	18.57	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.48	67	44208	21.22	ng/ul	0.00
9) 2-Chlorophenol-d4	7.70	132	81675	25.04	ng/ul	0.00
13) 4-Methylphenol-d8	8.87	113	51164	14.50	ng/ul	0.00
19) Nitrobenzene-d5	9.34	128	42862	23.73	ng/ul	0.00
22) 2-Nitrophenol-d4	10.06	143	46342	40.61	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.60	165	80784	25.04	ng/ul	0.00
29) 4-Chloroaniline-d4	11.12	131	72850m	20.96	ng/ul	0.00
44) Dimethylphthalate-d6	14.19	166	276681	23.33	ng/ul	0.00
47) Acenaphthylene-d8	14.48	160	377374	22.41	ng/ul	0.00
52) 4-Nitrophenol-d4	14.99	143	31197m	15.35	ng/ul	0.00
58) Fluorene-d10	15.78	176	269111	21.55	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.89	200	36590	34.90	ng/ul	0.00
71) Anthracene-d10	17.63	188	402270	21.83	ng/ul	0.00
77) Pyrene-d10	19.91	212	435803	24.12	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.93	264	412130	22.51	ng/ul	0.01

Target Compounds

					Qvalue
28) Naphthalene	11.03	128	61467	4.46 ng/ul	97
34) 2-Methylnaphthalene	12.63	142	16392	1.62 ng/ul	99
35) 1-Methylnaphthalene	12.85	142	12790	1.27 ng/ul#	98
45) Dimethylphthalate	14.24	163	71502	5.92 ng/ul	99
50) Acenaphthene	14.85	153	55028	4.59 ng/ul	97
54) Dibenzofuran	15.19	168	32924	2.05 ng/ul#	81
59) Fluorene	15.83	166	33872	2.44 ng/ul#	94
69) Pentachlorophenol	17.18	266	3935m	2.26 ng/ul	
70) Phenanthrene	17.58	178	645767	31.20 ng/ul	96
72) Anthracene	17.67	178	117368	5.58 ng/ul	99
73) Carbazole	17.94	167	99306	5.45 ng/ul#	96
74) Di-n-butylphthalate	18.48	149	17395	1.05 ng/ul#	93
75) Fluoranthene	19.58	202	1015075	43.17 ng/ul#	93
78) Pyrene	19.94	202	859074m	38.46 ng/ul	
79) Butylbenzylphthalate	20.81	149	12159	2.46 ng/ul#	79
81) Benzo(a)anthracene	21.80	228	472607	22.00 ng/ul	97
82) Bis(2-ethylhexyl)phthalate	21.69	149	104846	13.01 ng/ul	99
83) Chrysene	21.87	228	455174	21.42 ng/ul	95
86) Benzo(b)fluoranthene	24.09	252	804413	36.46 ng/ul#	93
87) Benzo(k)fluoranthene	24.16	252	167195m	7.08 ng/ul	
89) Benzo(a)pyrene	25.00	252	485175	22.09 ng/ul#	93
90) Indeno(1,2,3-cd)pyrene	28.99	276	391704	15.05 ng/ul	97
91) Dibenzo(a,h)anthracene	29.02	278	89961m	4.15 ng/ul	

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QLast Update : Mon May 16 01:27:47 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Benzo(g,h,i)perylene	30.17	276	391282m	18.21	ng/ul	

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

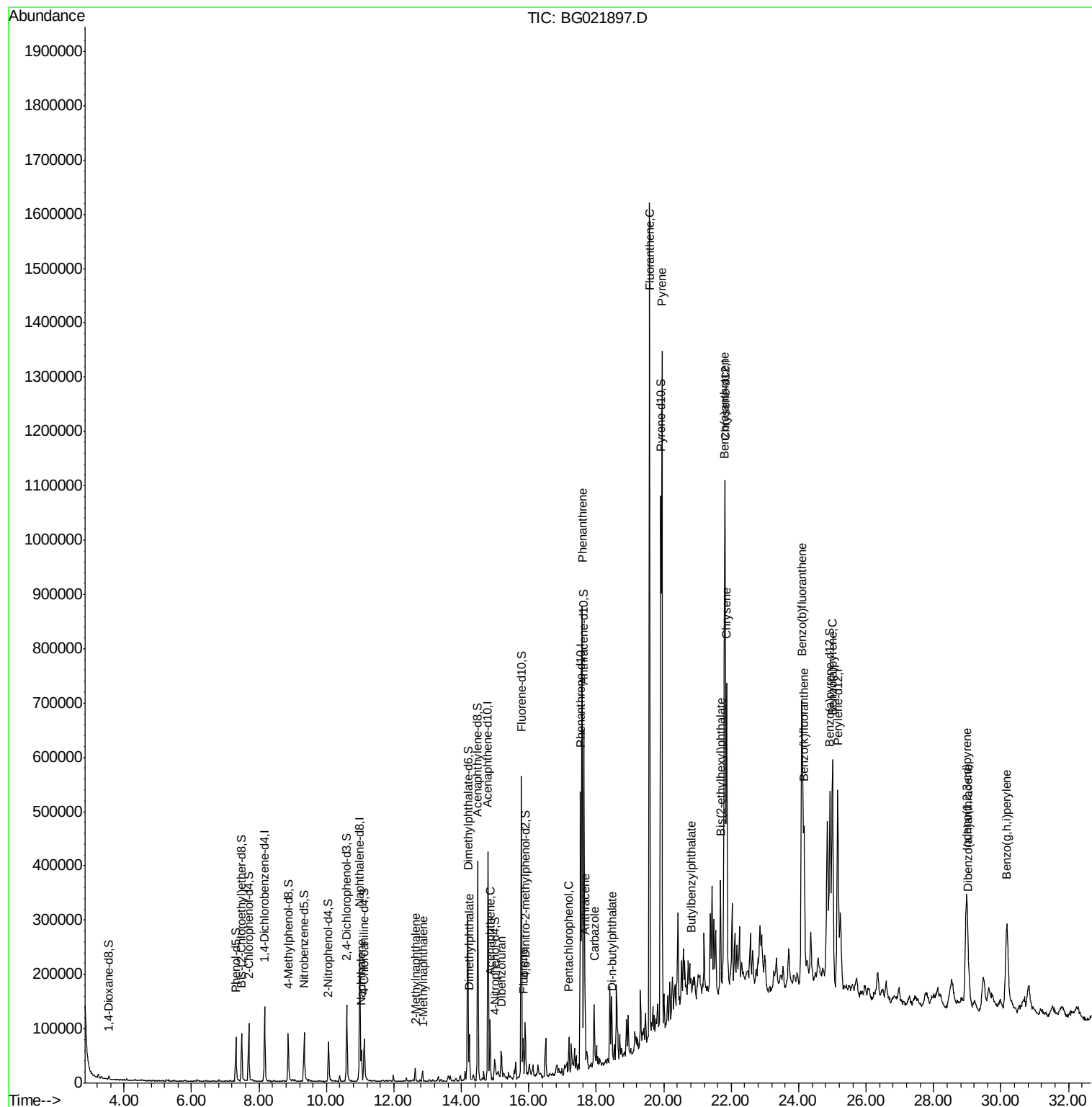
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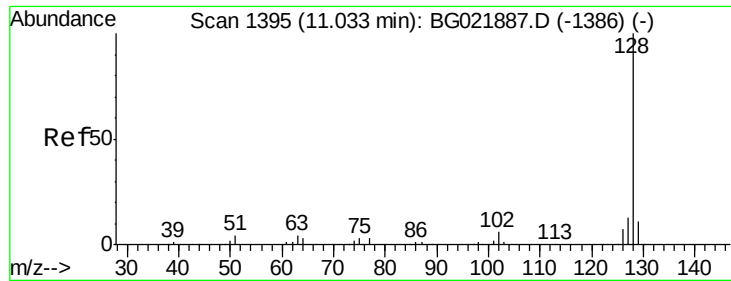
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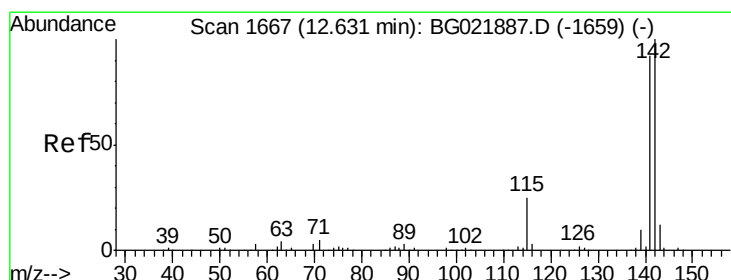
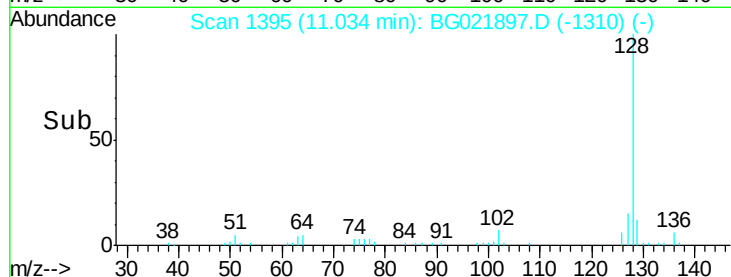
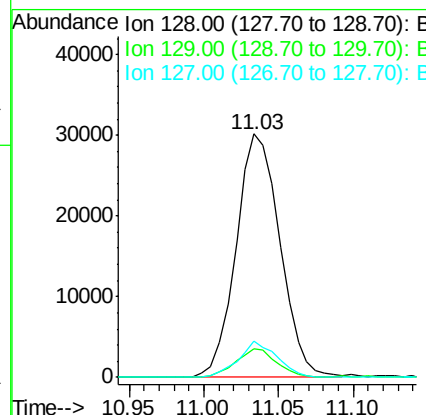
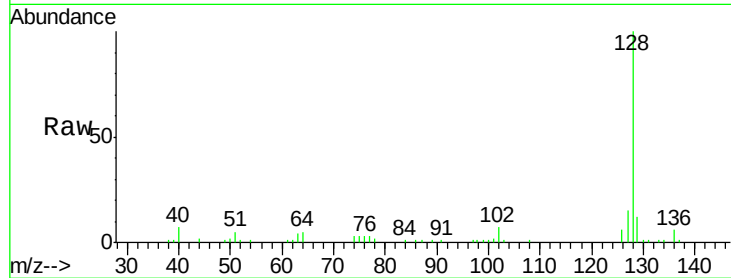
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Naphthalene
Concen: 4.46 ng/ul
RT: 11.03 min Scan# 1395
Delta R.T. 0.00 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Instrument :
BNA_G
ClientSampleId :
D9XG4

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.3	12.5
127	14.9	10.8	16.2

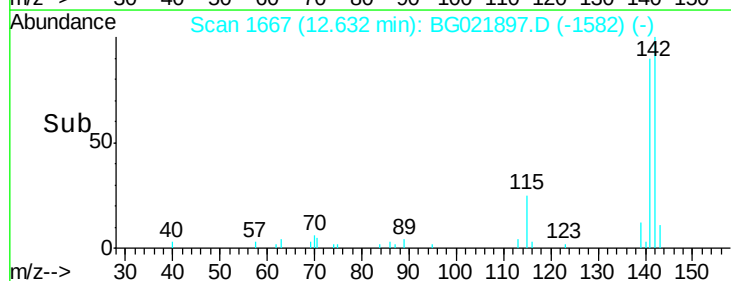
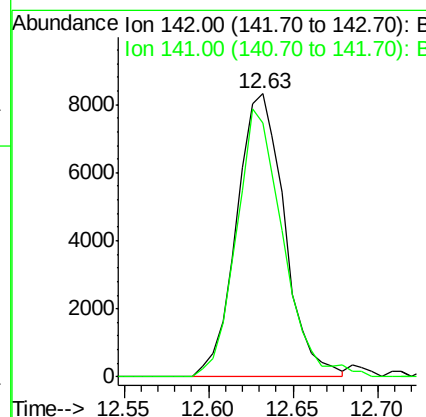
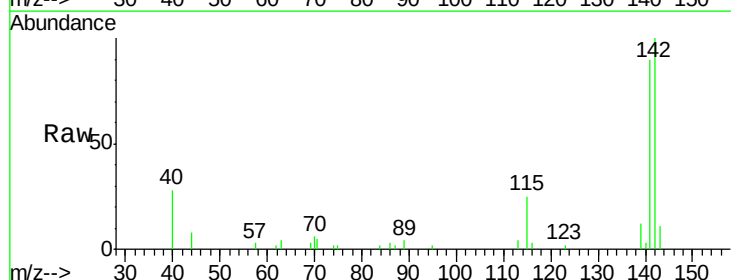
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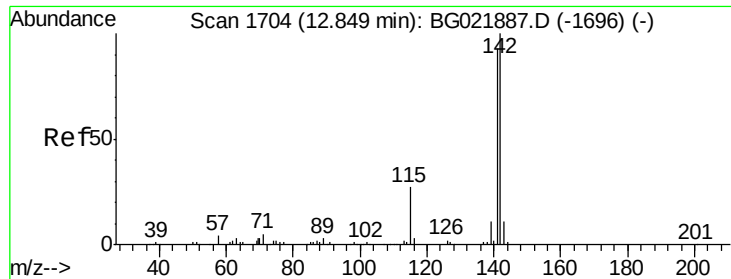
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#34
2-Methylnaphthalene
Concen: 1.62 ng/ul
RT: 12.63 min Scan# 1667
Delta R.T. 0.00 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.3	106.9





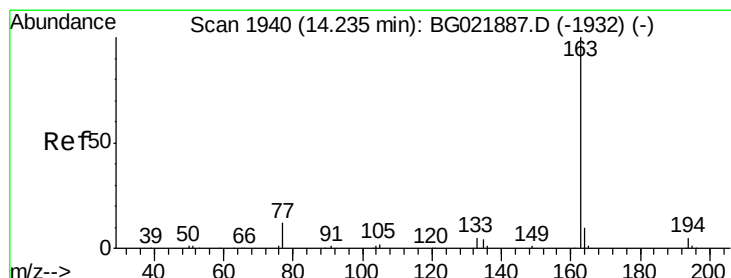
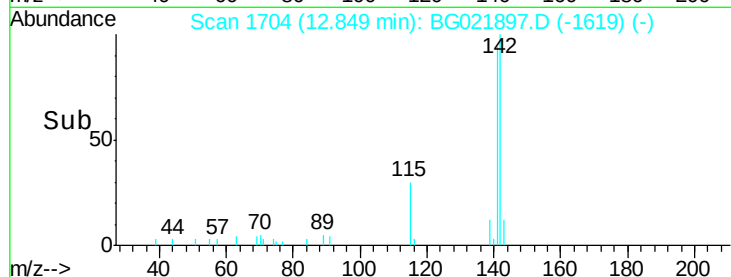
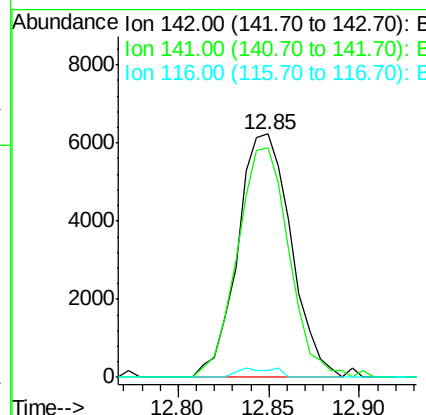
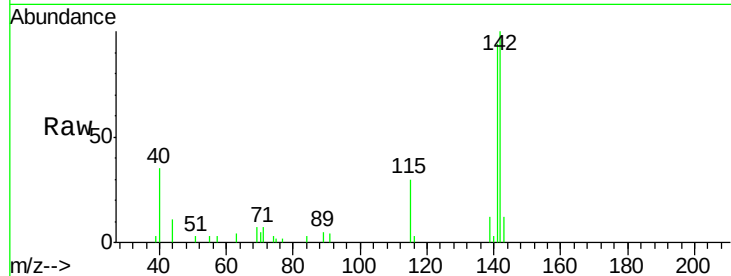
#35
 1-Methylnaphthalene
 Concen: 1.27 ng/ul
 RT: 12.85 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Instrument :
 BNA_G
 ClientSampleId :
 D9XG4

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.4	77.0	115.4
116	2.9	4.2	6.4#

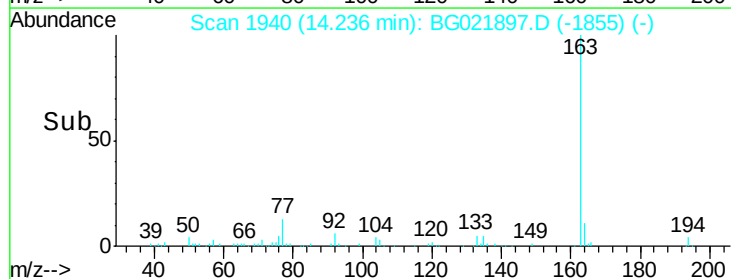
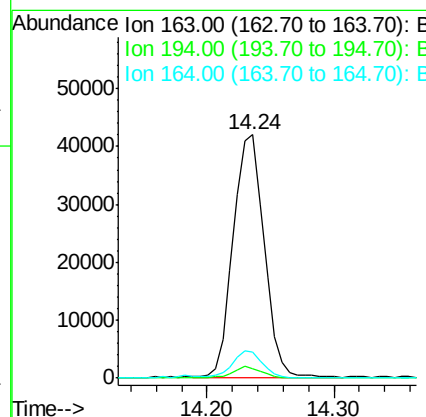
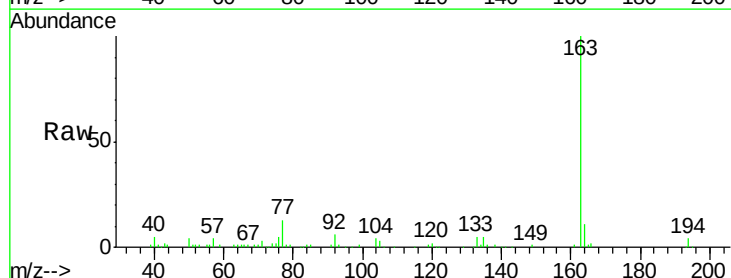
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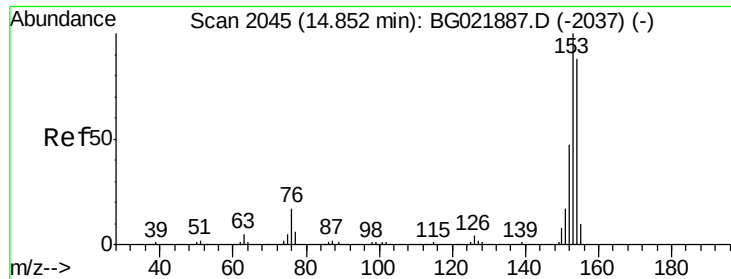
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#45
 Dimethylphthalate
 Concen: 5.92 ng/ul
 RT: 14.24 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.9	5.9
164	10.9	8.7	13.1





#50

Acenaphthene

Concen: 4.59 ng/ul

RT: 14.85 min Scan# 2045

Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Instrument :

BNA_G

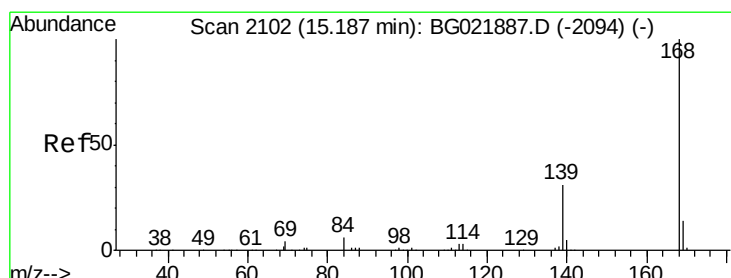
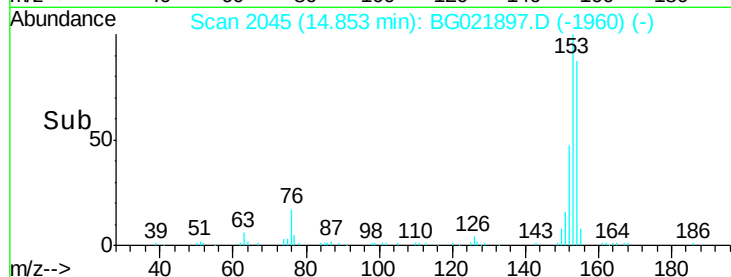
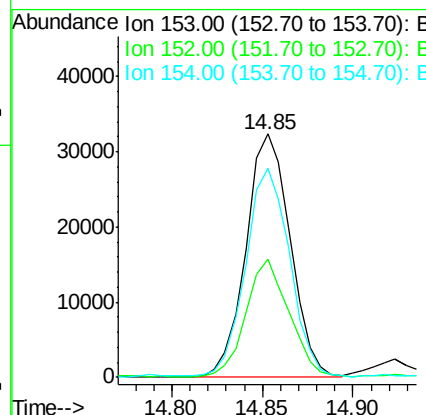
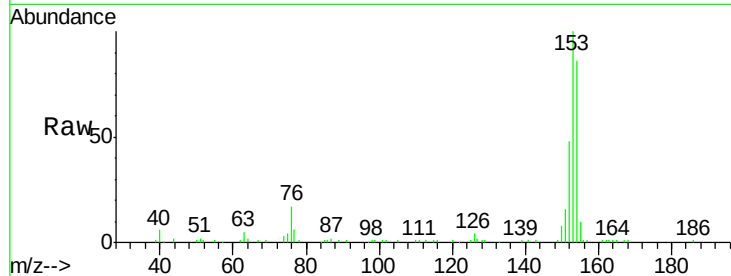
ClientSampleId :

D9XG4

Tgt Ion:	153	Resp:	55028
Ion Ratio	Lower	Upper	
153	100		
152	48.3	36.5	54.7
154	85.8	67.3	100.9

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#54

Dibenzofuran

Concen: 2.05 ng/ul

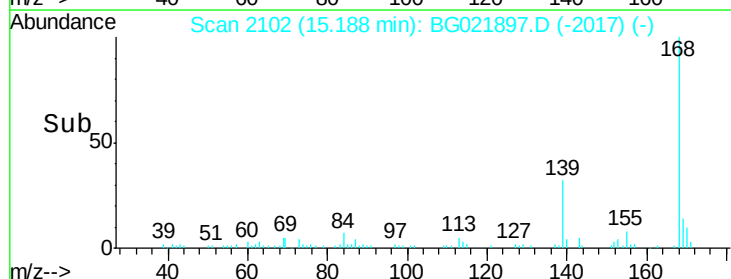
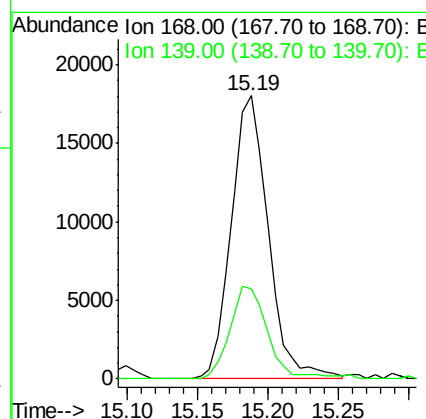
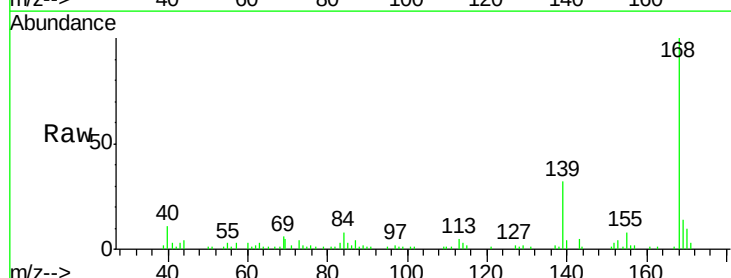
RT: 15.19 min Scan# 2102

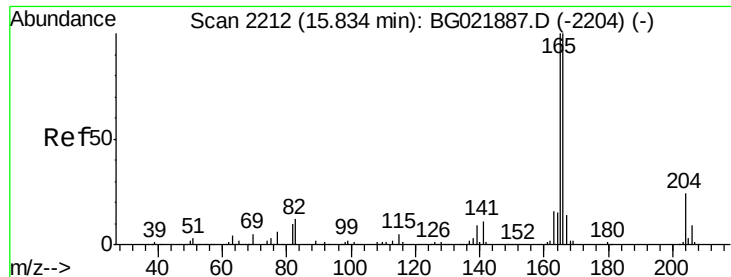
Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Tgt Ion:	168	Resp:	32924
Ion Ratio	Lower	Upper	
168	100		
139	31.9	35.2	52.8#





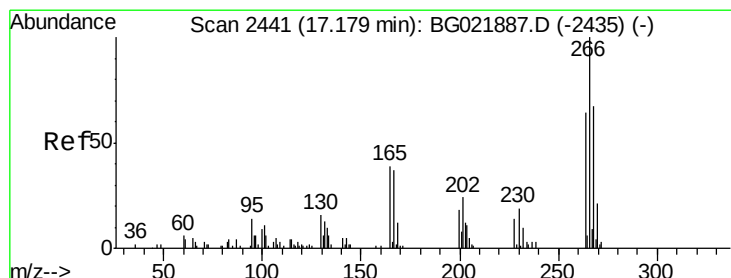
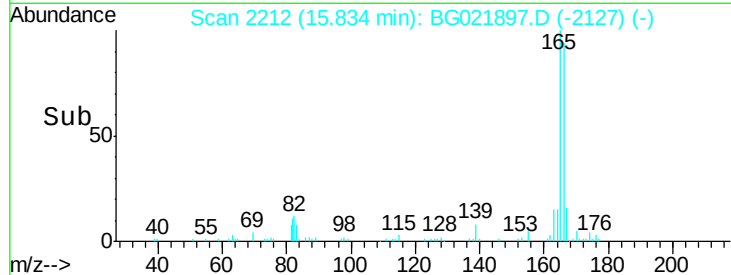
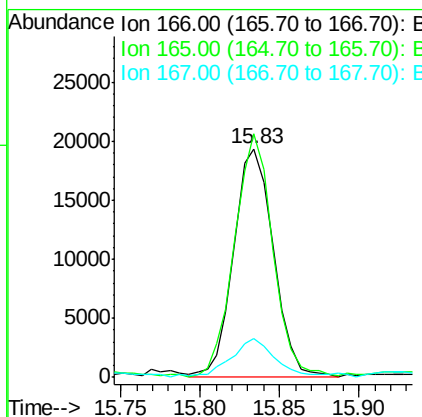
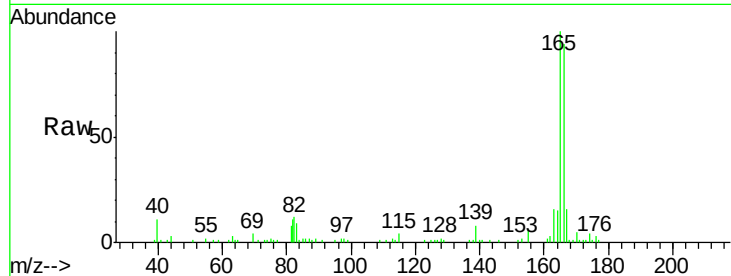
#59
 Fluorene
 Concen: 2.44 ng/ul
 RT: 15.83 min Scan# 2212
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Instrument :
 BNA_G
 ClientSampleId :
 D9XG4

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	106.4	33872	81.1	121.7
167	17.1		10.6	16.0#

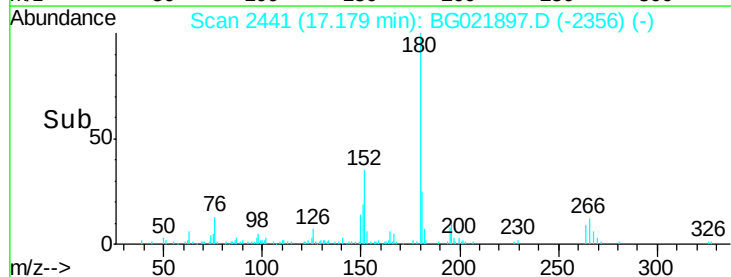
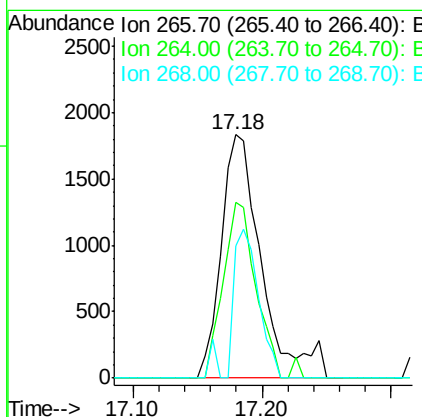
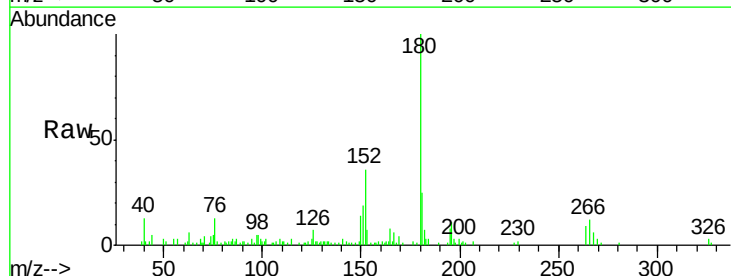
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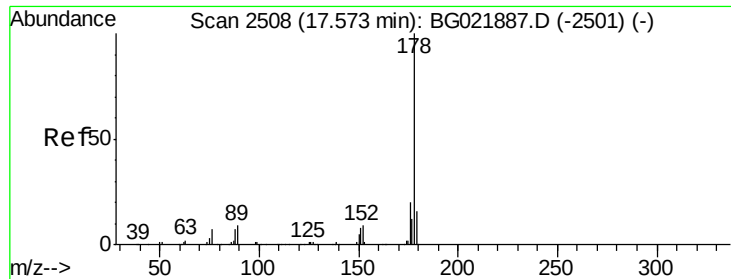
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#69
 Pentachlorophenol
 Concen: 2.26 ng/ul m
 RT: 17.18 min Scan# 2441
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	3935		
264	72.1		56.7	85.1
268	54.3		50.6	76.0





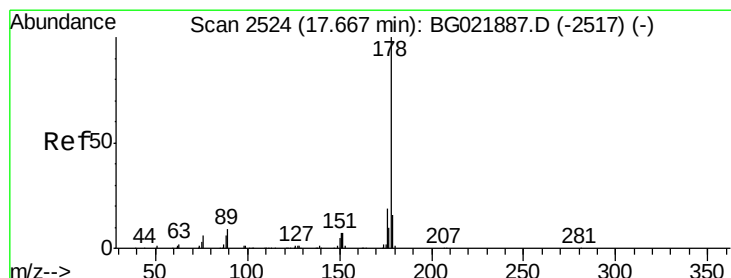
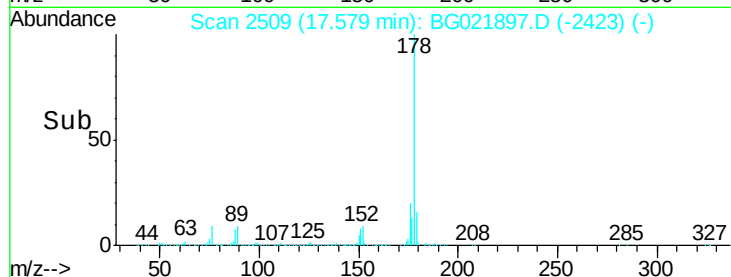
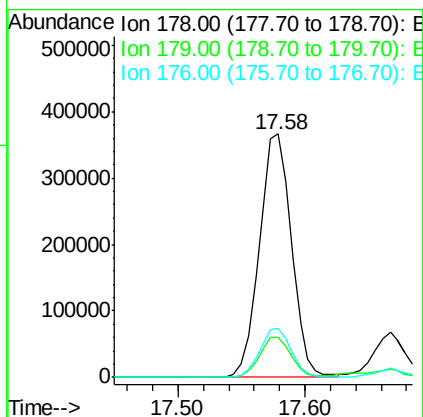
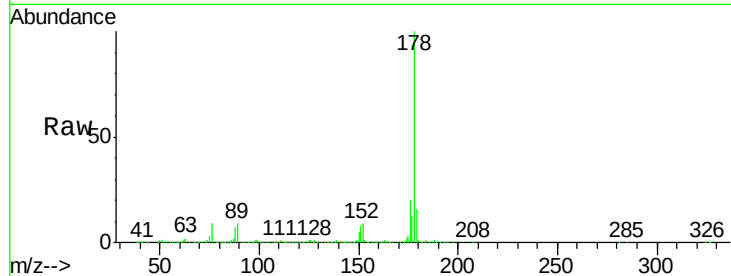
#70
Phenanthrene
Concen: 31.20 ng/ul
RT: 17.58 min Scan# 2509
Delta R.T. 0.01 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Instrument :
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ClientSampleId :
D9XG4

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	645767		
179	16.2	11.8	17.8	
176	20.2	14.8	22.2	

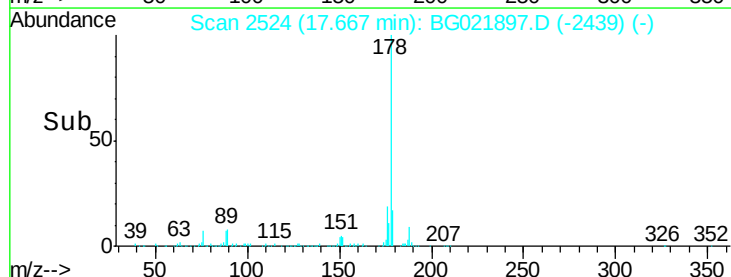
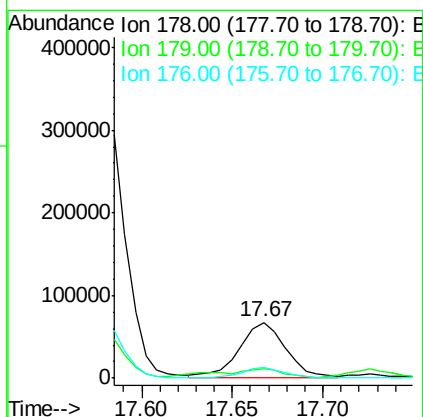
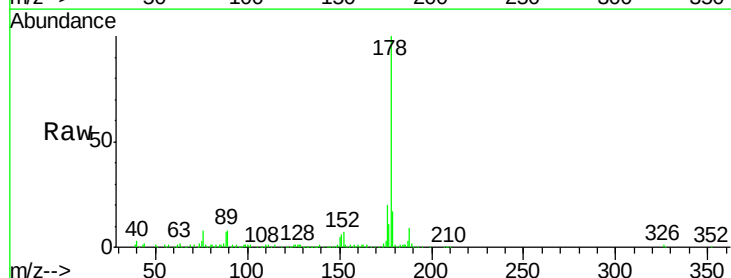
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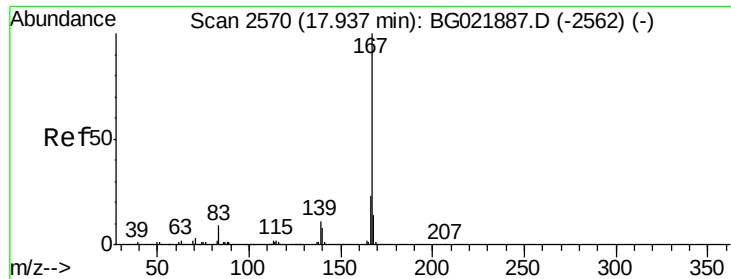
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#72
Anthracene
Concen: 5.58 ng/ul
RT: 17.67 min Scan# 2524
Delta R.T. 0.00 min
Lab File: BG021897.D
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Tgt Ion	Ratio	Resp	Lower	Upper
178	100	117368		
179	16.9	12.9	19.3	
176	19.5	15.6	23.4	





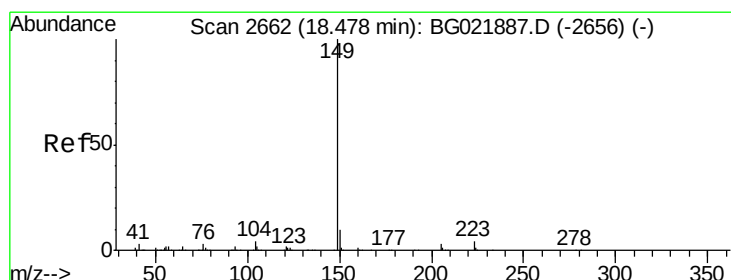
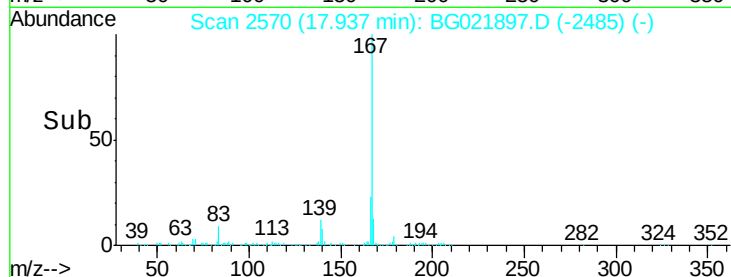
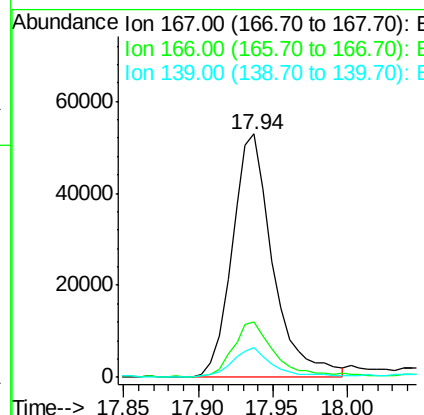
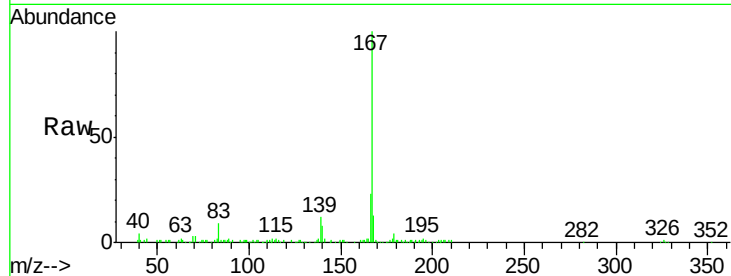
#73
 Carbazole
 Concen: 5.45 ng/ul
 RT: 17.94 min Scan# 2570
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Instrument :
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 ClientSampleId :
 D9XG4

Tgt Ion	Ratio	Resp Lower	Upper
167	100		
166	22.9	19.0	28.4
139	12.2	12.2	18.4#

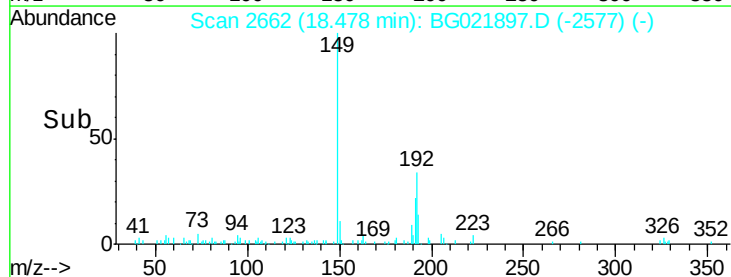
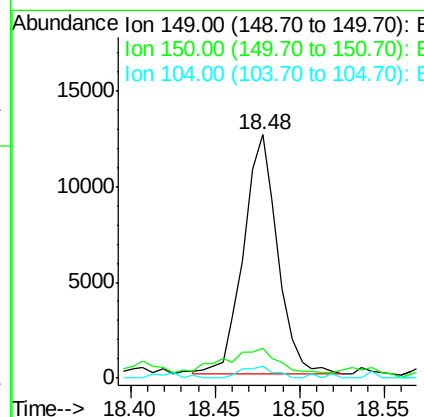
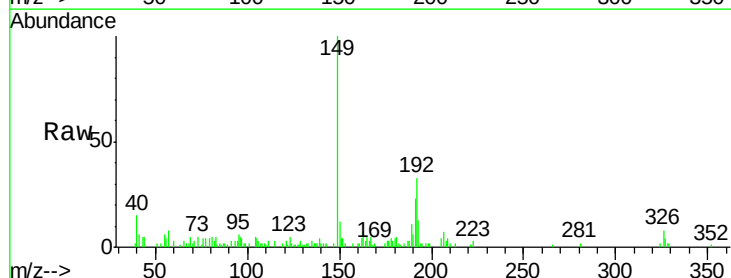
Manual Integrations
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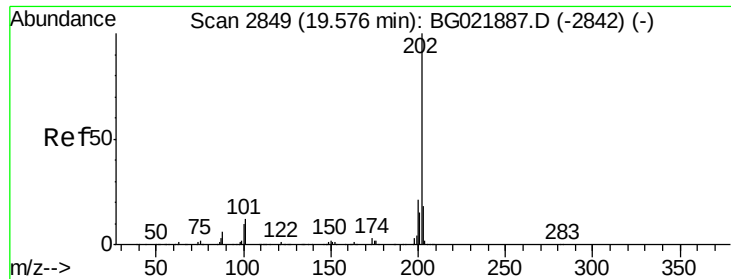
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#74
 Di-n-butylphthalate
 Concen: 1.05 ng/ul
 RT: 18.48 min Scan# 2662
 Delta R.T. 0.00 min
 Lab File: BG021897.D
 Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Resp Lower	Upper
149	100		
150	12.5	7.5	11.3#
104	4.9	5.4	8.2#





#75

Fluoranthene

Concen: 43.17 ng/ul

RT: 19.58 min Scan# 2849

Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Instrument :

BNA_G

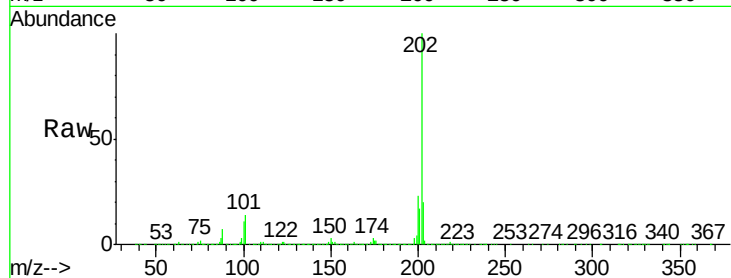
ClientSampleId :

D9XG4

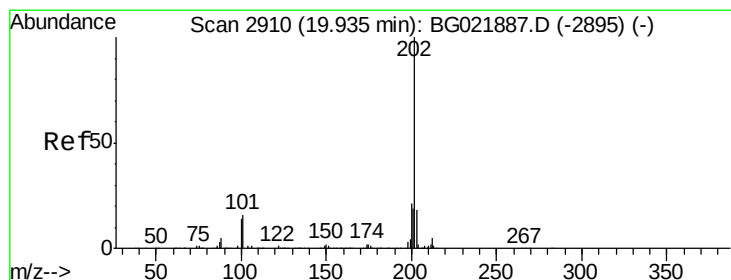
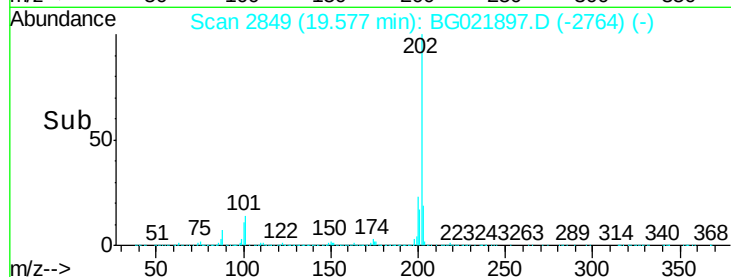
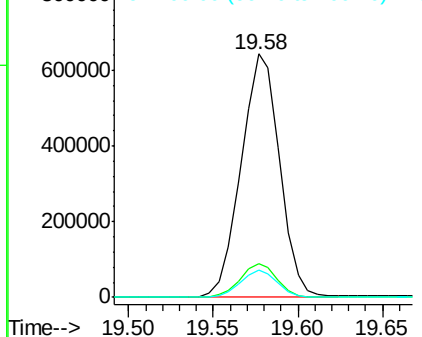
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100				
101	13.9	8.9	13.3#		
100	11.2	7.0	10.4#		

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



#78

Pyrene

Concen: 38.46 ng/ul m

RT: 19.94 min Scan# 2911

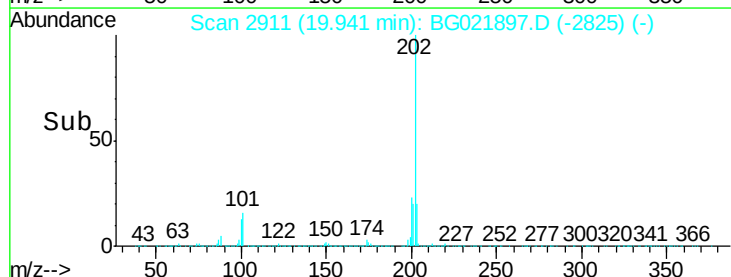
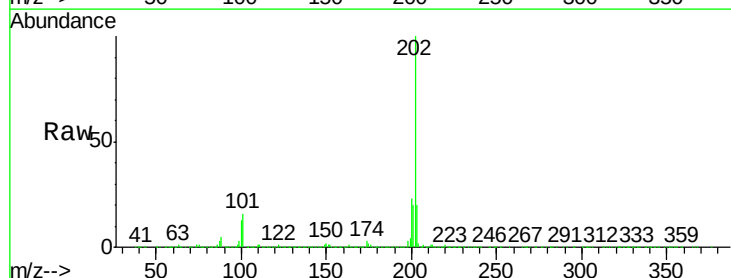
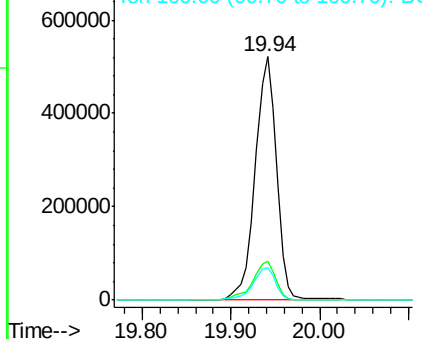
Delta R.T. 0.01 min

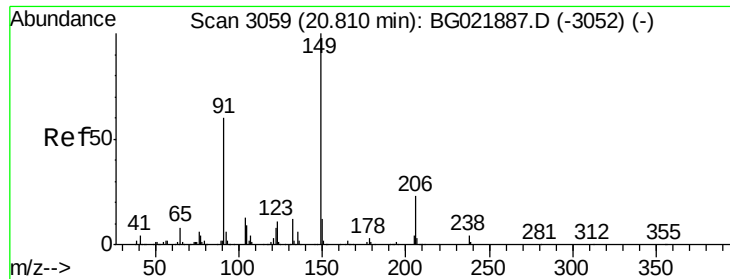
Lab File: BG021897.D

Acq: 15 May 2016 17:35

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100				
101	15.8	9.8	14.8#		
100	13.4	9.3	13.9		

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





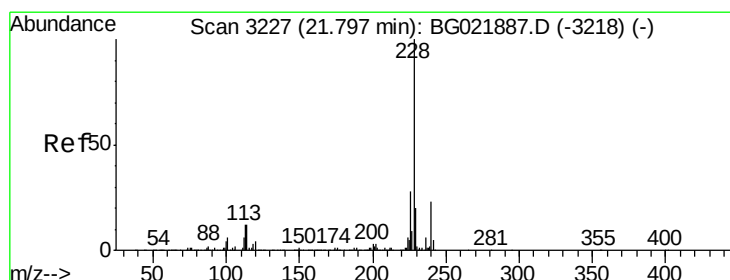
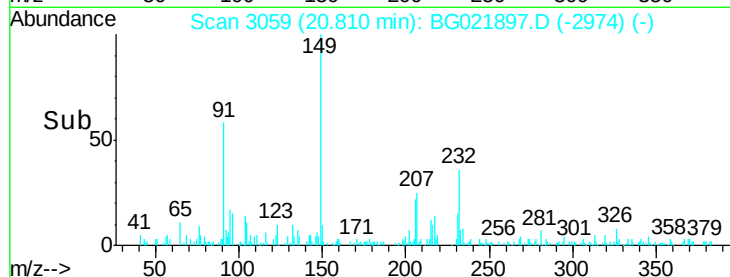
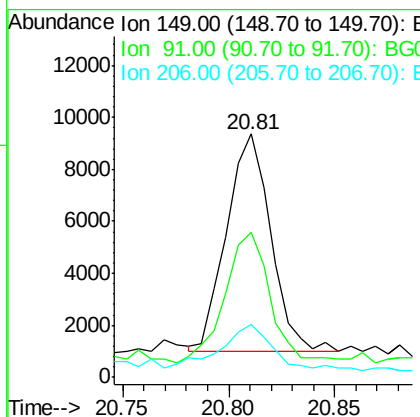
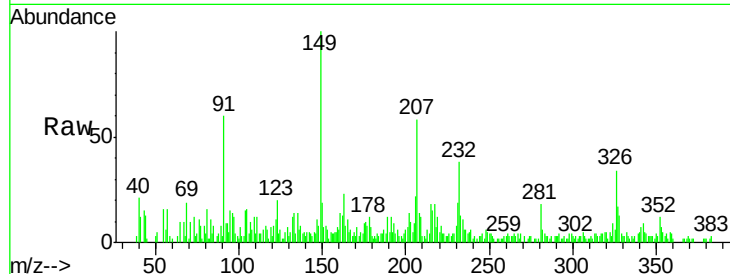
#79
Butylbenzylphthalate
Concen: 2.46 ng/ul
RT: 20.81 min Scan# 3059
Delta R.T. 0.00 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Instrument :
BNA_G
ClientSampleId :
D9XG4

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
91	59.7	65.8	98.8#
206	21.9	15.5	23.3

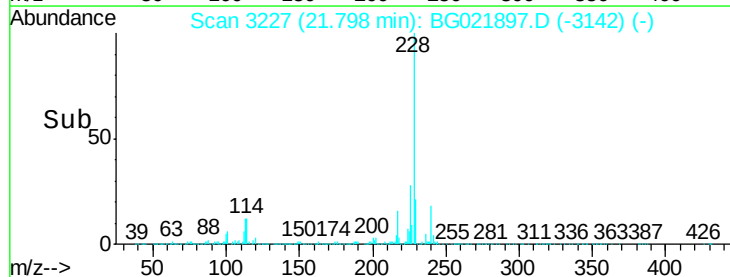
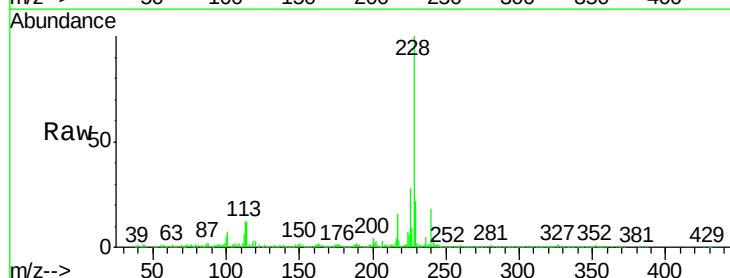
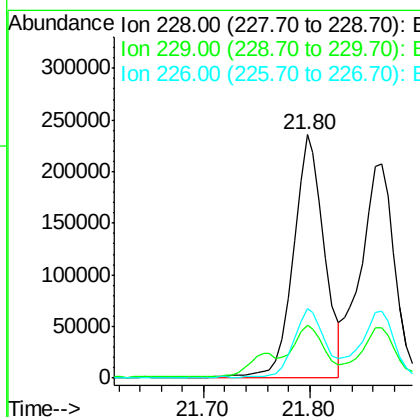
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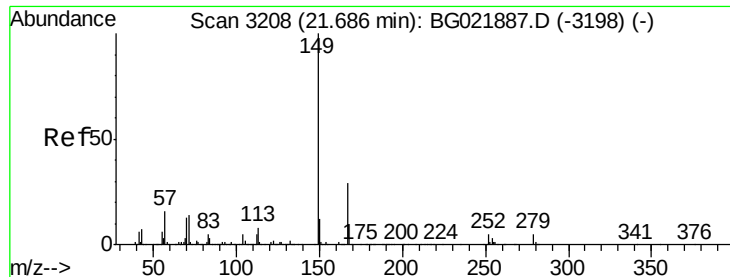
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#81
Benzo(a)anthracene
Concen: 22.00 ng/ul
RT: 21.80 min Scan# 3227
Delta R.T. 0.00 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
229	21.8	16.6	25.0
226	28.5	21.0	31.4





#82

Bis(2-ethylhexyl)phthalate

Concen: 13.01 ng/ul

RT: 21.69 min Scan# 3208

Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Instrument :

BNA_G

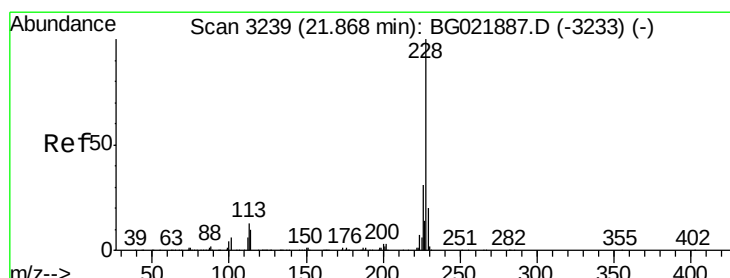
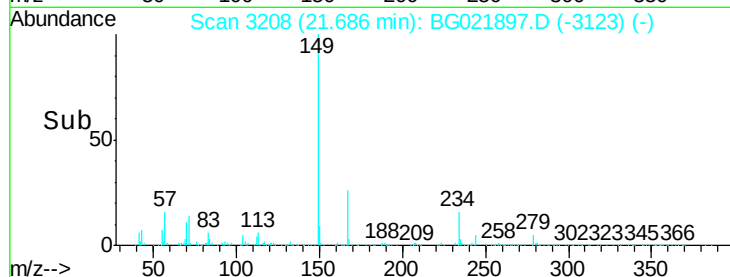
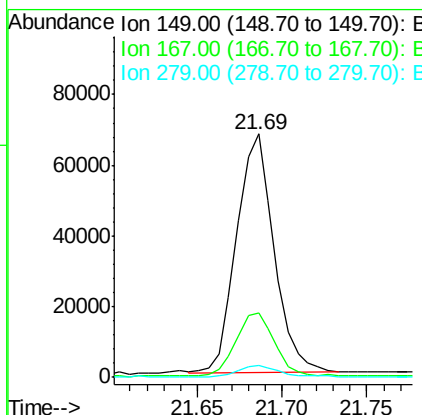
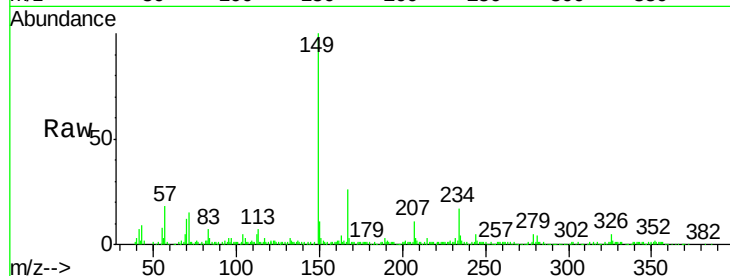
ClientSampleId :

D9XG4

Tgt Ion:	149	Resp:	104846
Ion Ratio	Lower	Upper	
149	100		
167	26.4	20.5	30.7
279	4.9	3.7	5.5

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#83

Chrysene

Concen: 21.42 ng/ul

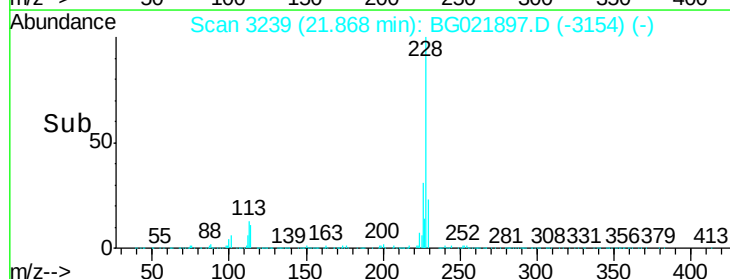
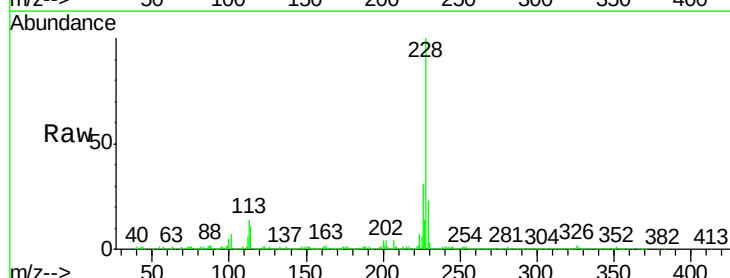
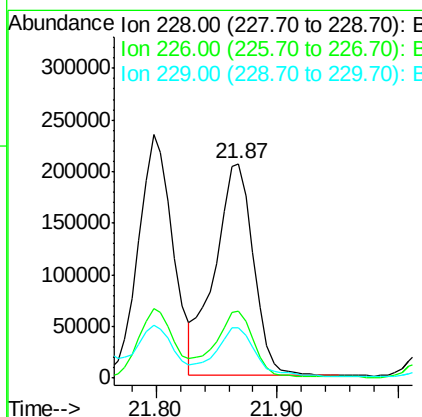
RT: 21.87 min Scan# 3239

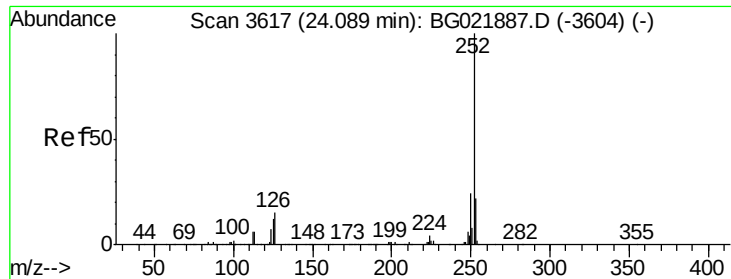
Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Tgt Ion:	228	Resp:	455174
Ion Ratio	Lower	Upper	
228	100		
226	31.0	23.4	35.2
229	23.2	16.2	24.2





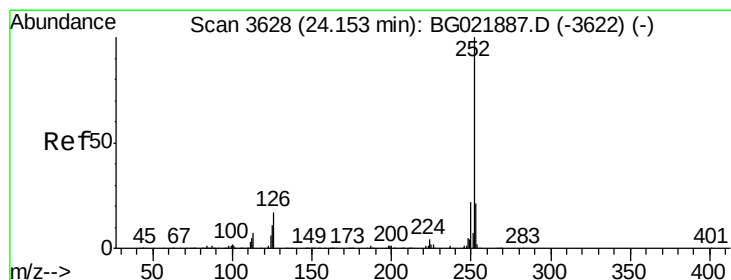
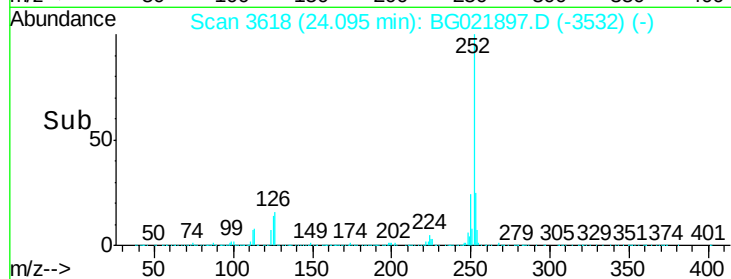
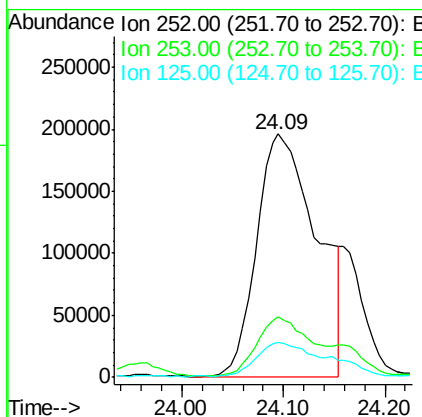
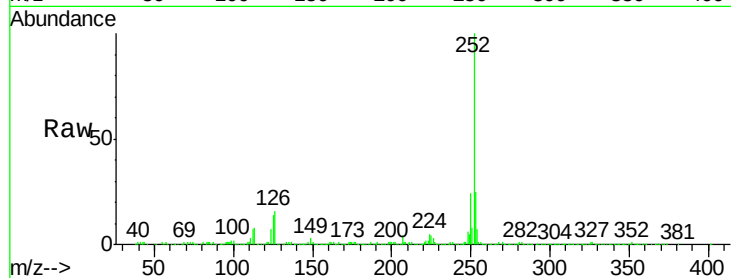
#86
Benzo(b)fluoranthene
Concen: 36.46 ng/ul
RT: 24.09 min Scan# 3618
Delta R.T. 0.01 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Instrument :
BNA_G
ClientSampleId :
D9XG4

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	24.8	18.1	27.1
125	14.1	7.6	11.4

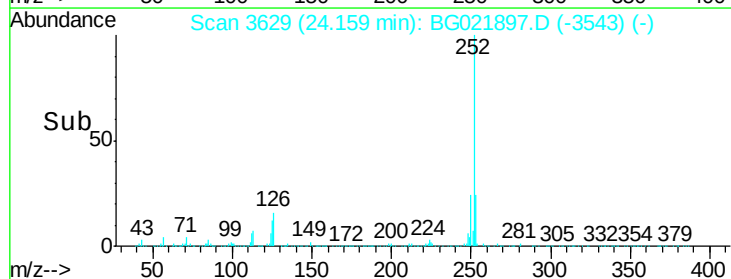
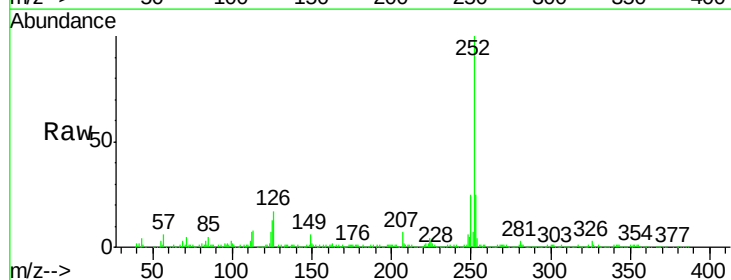
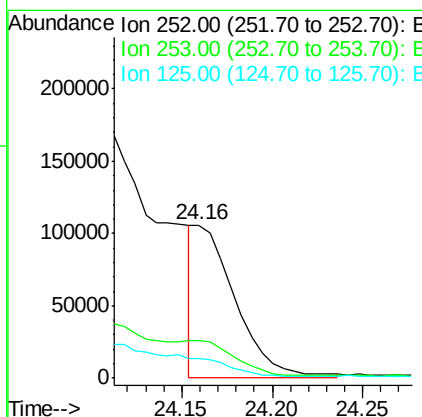
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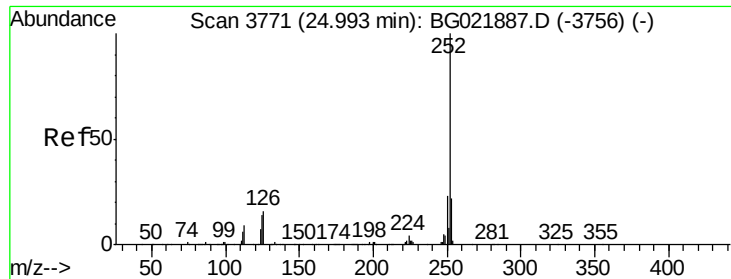
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#87
Benzo(k)fluoranthene
Concen: 7.08 ng/ul m
RT: 24.16 min Scan# 3629
Delta R.T. 0.01 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	24.7	17.8	26.8
125	13.1	7.7	11.5





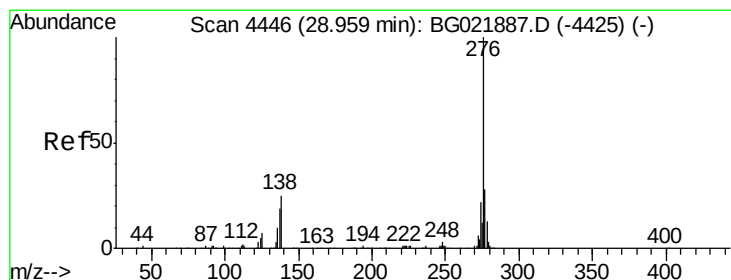
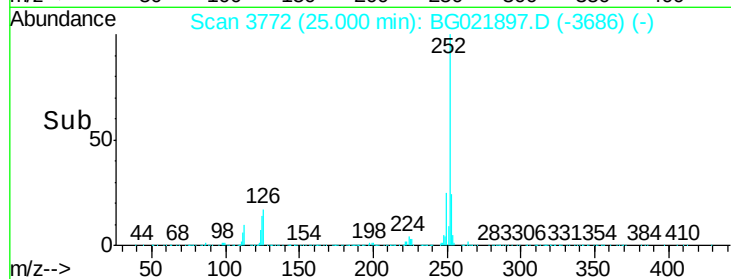
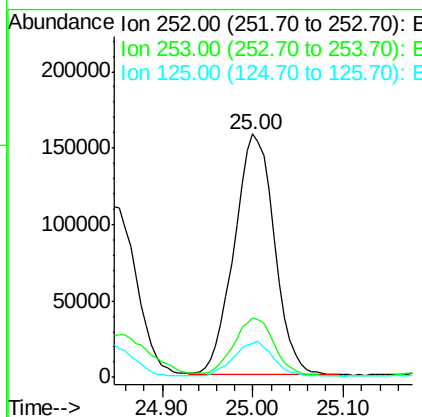
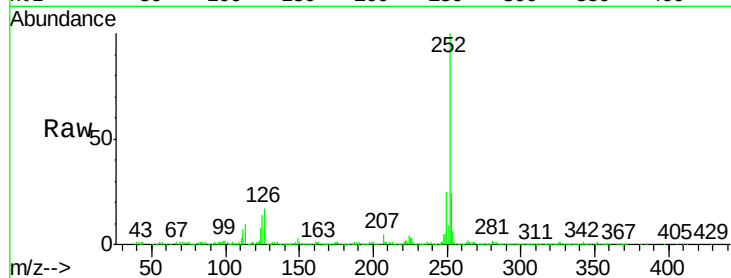
#89
Benzo(a)pyrene
Concen: 22.09 ng/ul
RT: 25.00 min Scan# 3772
Delta R.T. 0.01 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Instrument :
BNA_G
ClientSampleId :
D9XG4

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	24.3	17.4	26.0
125	14.1	8.2	12.2

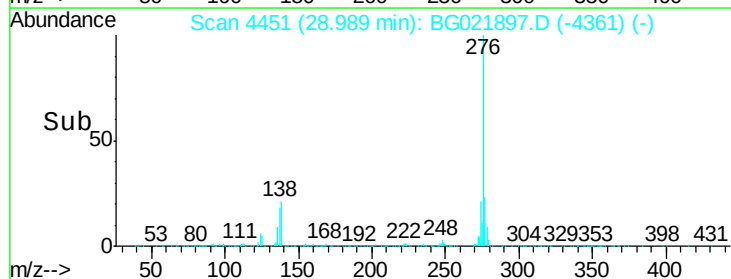
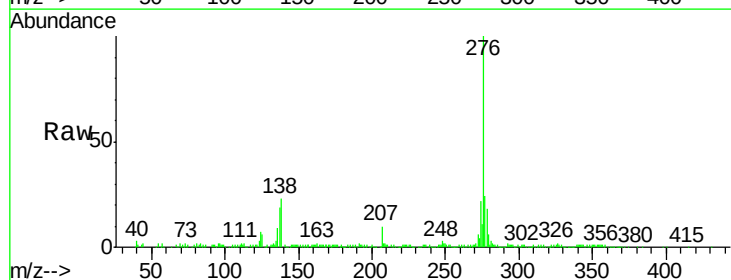
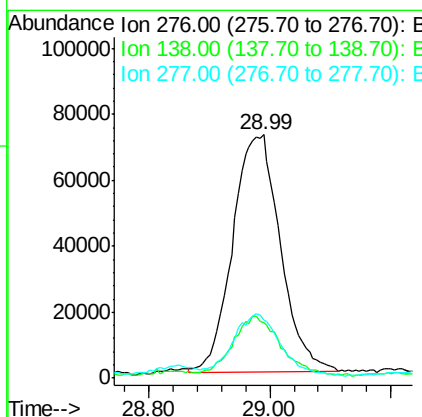
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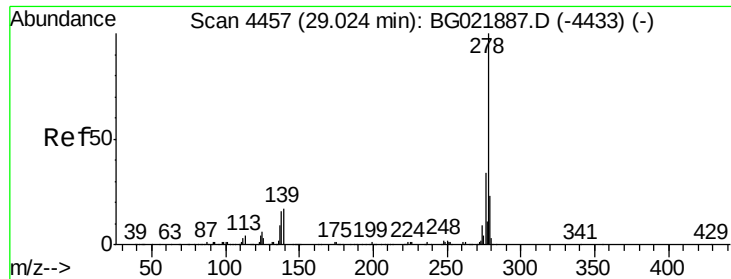
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#90
Indeno(1,2,3-cd)pyrene
Concen: 15.05 ng/ul
RT: 28.99 min Scan# 4451
Delta R.T. 0.03 min
Lab File: BG021897.D
Acq: 15 May 2016 17:35

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	22.7	15.8	23.6
277	23.8	19.0	28.6





#91

Dibenzo(a,h)anthracene

Concen: 4.15 ng/ul m

RT: 29.02 min Scan# 4457

Delta R.T. 0.00 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Instrument :

BNA_G

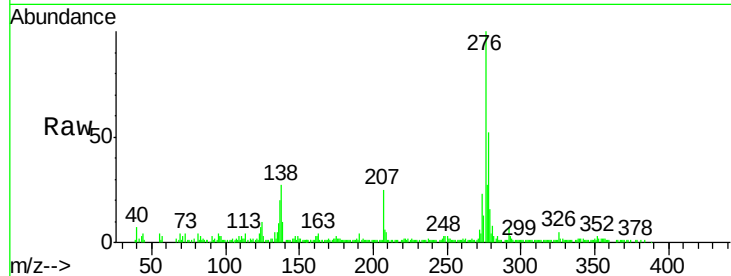
ClientSampled :

D9XG4

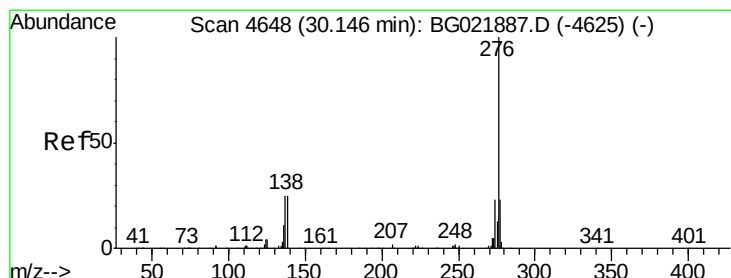
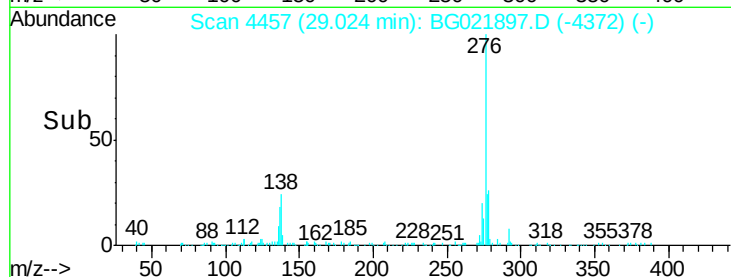
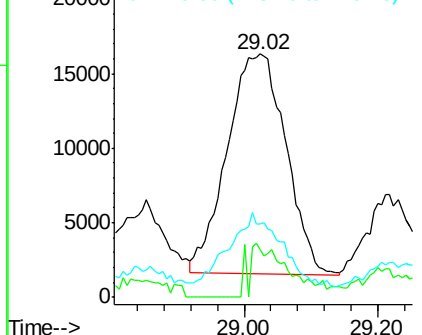
Tgt Ion:	278	Resp:	89961
Ion Ratio	Lower	Upper	
278	100		
139	19.8	12.1	18.1#
279	30.1	19.8	29.8#

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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



#92

Benzo(g,h,i)perylene

Concen: 18.21 ng/ul m

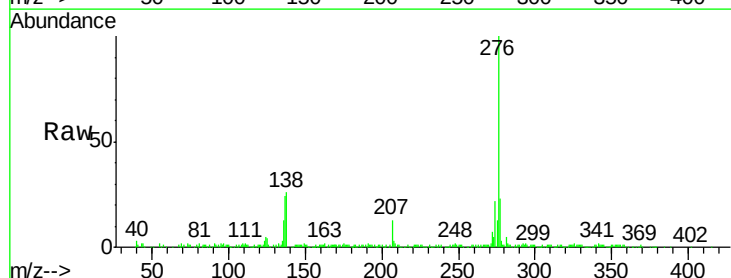
RT: 30.17 min Scan# 4652

Delta R.T. 0.02 min

Lab File: BG021897.D

Acq: 15 May 2016 17:35

Tgt Ion:	276	Resp:	391282
Ion Ratio	Lower	Upper	
276	100		
138	26.3	13.9	20.9#
277	22.8	19.8	29.6



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

