

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061019\
 Data File : BG041177.D
 Acq On : 10 Jun 2019 23:59
 Operator : HP/JU
 Sample : K3189-02 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S-7B

Manual Integrations
 APPROVED

mohammad
 6/14/2019 8:40:07 AM

Quant Time: Jun 11 05:41:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Jun 09 23:08:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	46642	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	204959	20.00	ng	0.00
39) Acenaphthene-d10	14.74	164	142345	20.00	ng	0.00
64) Phenanthrene-d10	17.48	188	336624	20.00	ng	0.00
76) Chrysene-d12	21.76	240	329296	20.00	ng	0.00
87) Perylene-d12	25.09	264	353829	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	57740	22.32	ng	0.00
7) Phenol-d6	7.25	99	91347	22.87	ng	0.00
23) Nitrobenzene-d5	9.28	82	63270	13.70	ng	0.00
42) 2,4,6-Tribromophenol	16.22	330	42349	20.04	ng	0.00
45) 2-Fluorobiphenyl	13.36	172	136139	13.77	ng	0.00
79) Terphenyl-d14	20.08	244	212061	13.67	ng	0.00

Target Compounds					Qvalue	
49) Acenaphthylene	14.47	152	33639	2.471	ng	96
52) Acenaphthene	14.80	154	17848	2.164	ng	92
55) Dibenzofuran	15.14	168	35311	2.544	ng	98
58) Fluorene	15.78	166	39695	3.592	ng	99
71) Phenanthrene	17.53	178	900011	51.329	ng	98
72) Anthracene	17.62	178	209401	12.109	ng	100
73) Carbazole	17.89	167	96721	6.518	ng	99
75) Fluoranthene	19.53	202	1444702	66.706	ng	97
78) Pyrene	19.89	202	1173048	54.799	ng	99
81) Benzo(a)anthracene	21.74	228	740488	33.781	ng	98
83) Chrysene	21.81	228	644092	30.705	ng	97
86) Indeno(1,2,3-cd)pyrene	28.91	276	295013	11.481	ng	# 96
88) Benzo(b)fluoranthene	24.03	252	747510	34.831	ng	99
89) Benzo(k)fluoranthene	24.09	252	287452m	13.535	ng	
90) Benzo(a)pyrene	24.93	252	523347	25.560	ng	97
91) Dibenzo(a,h)anthracene	28.95	278	75041m	3.668	ng	
92) Benzo(g,h,i)perylene	30.12	276	246302	12.392	ng	98

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

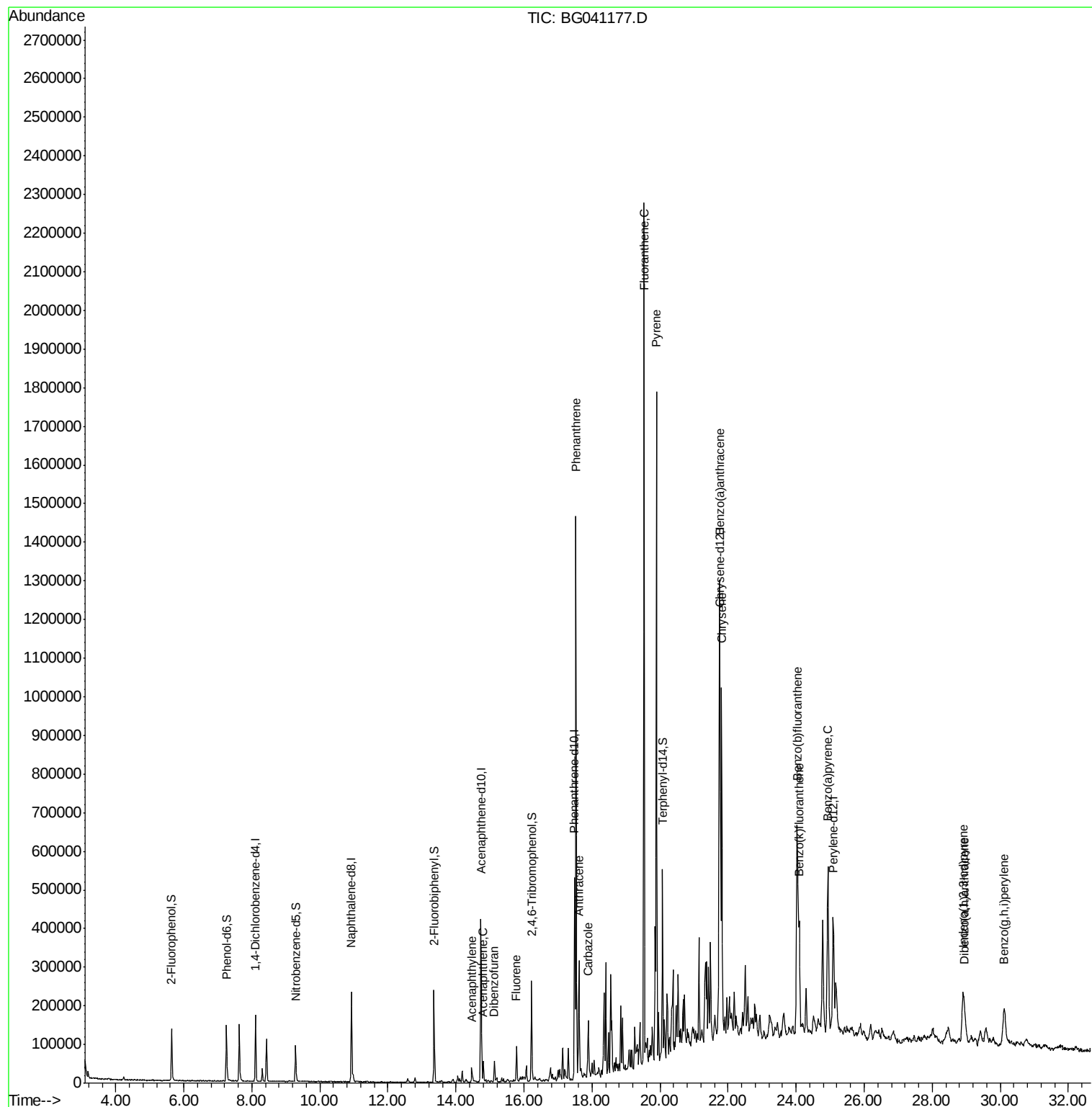
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061019\
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
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#1

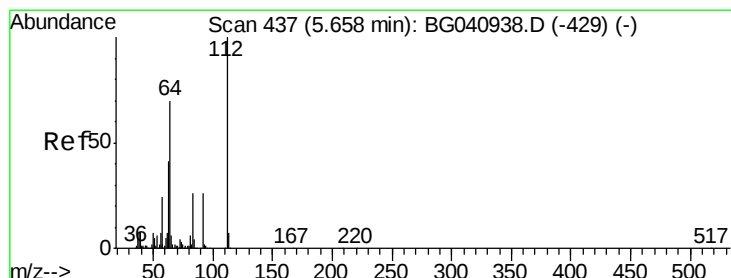
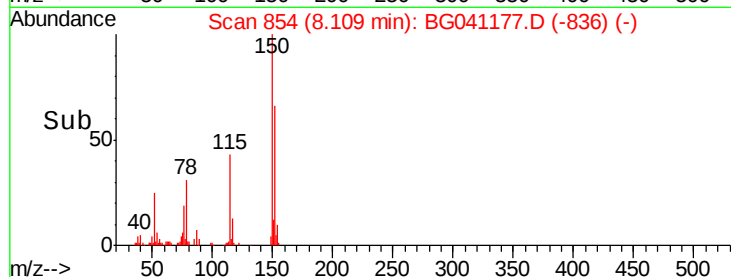
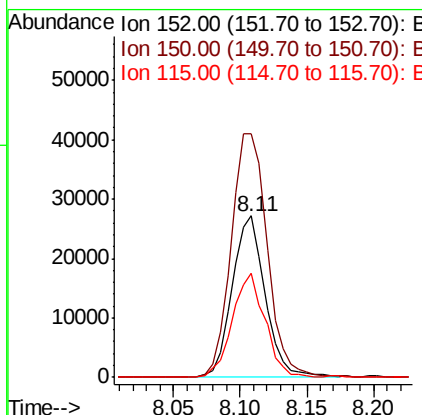
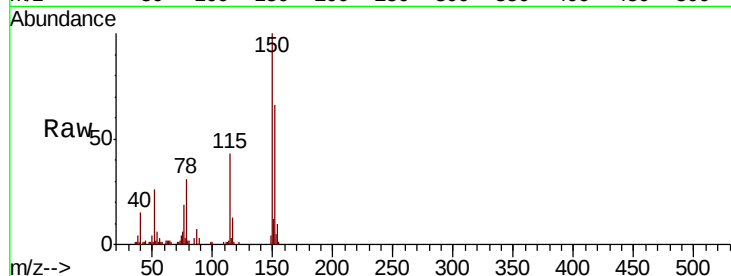
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.11 min Scan# 854
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampleId :
S-7B

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	120.6	180.8
115	64.6	45.1	67.7

Manual Integrations
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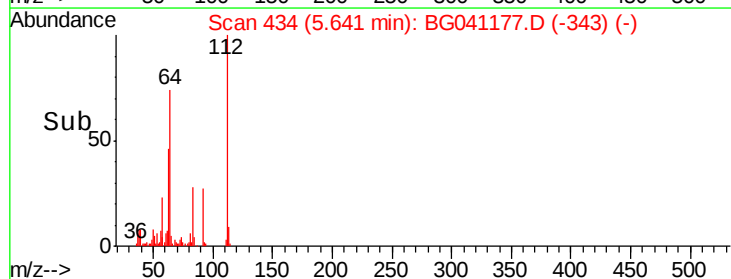
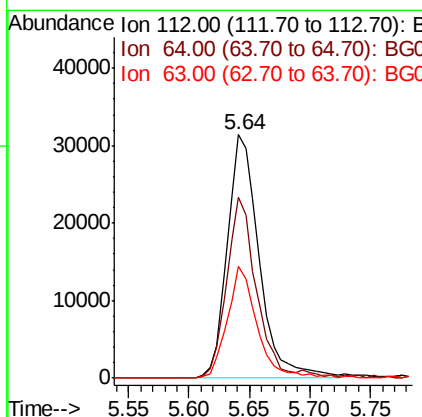
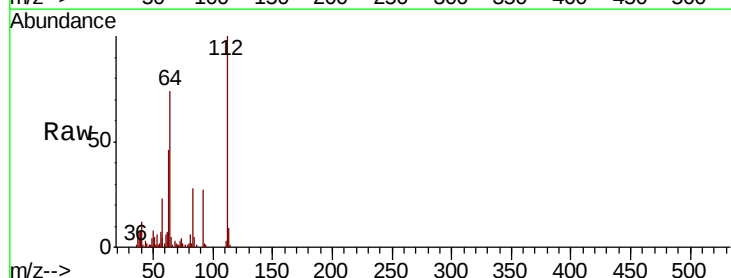
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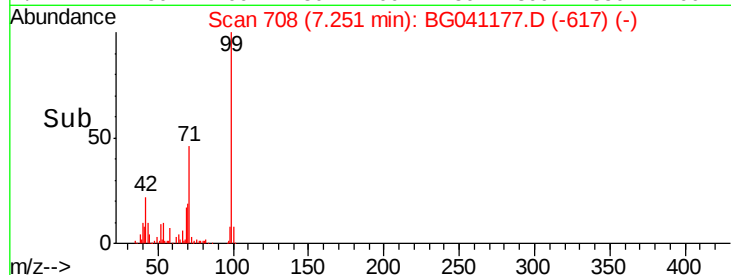
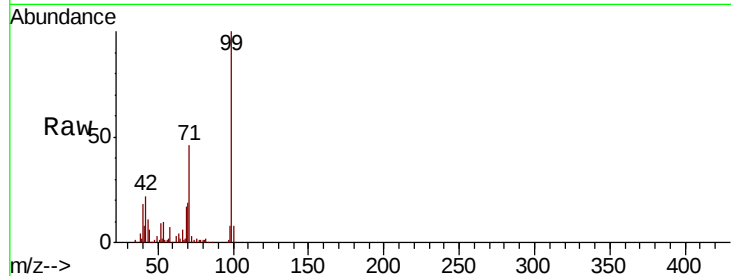
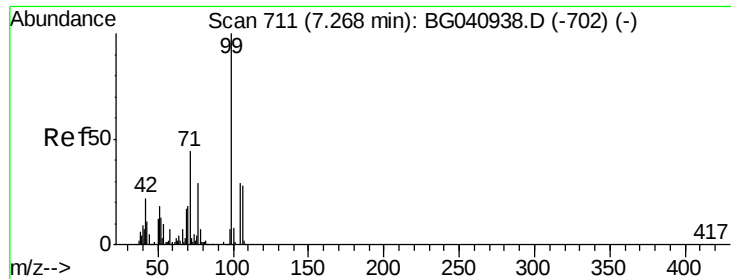


#5

2-Fluorophenol
Concen: 22.323 ng
RT: 5.64 min Scan# 434
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.3	56.2	84.2
63	46.1	32.8	49.2





#7

Phenol-d6

Concen: 22.867 ng

RT: 7.25 min Scan# 708

Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Tot Ion:	99	Resp:	91347
Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.9	26.9
71	45.8	35.4	53.0

Instrument :

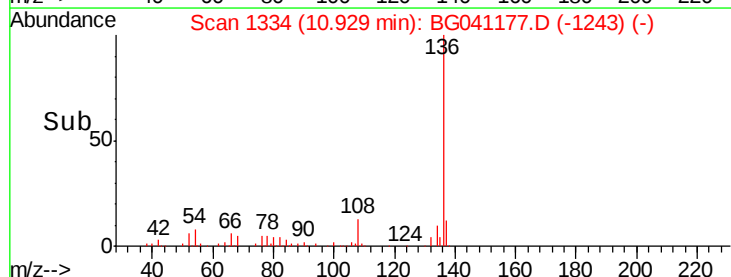
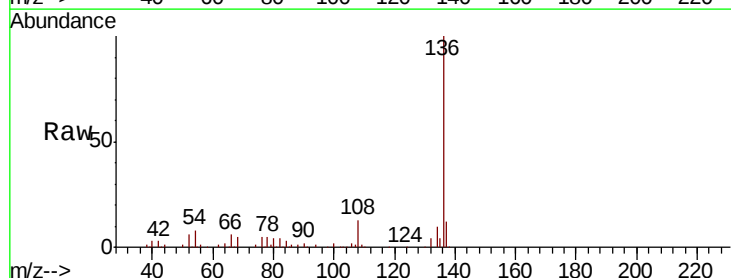
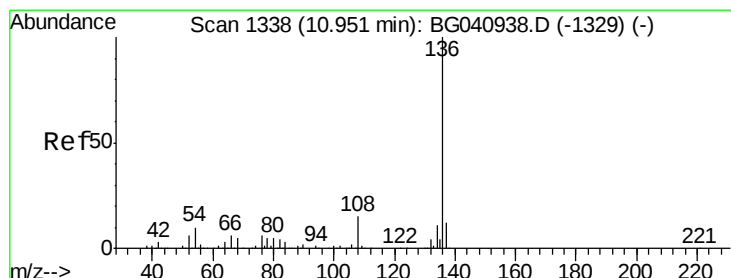
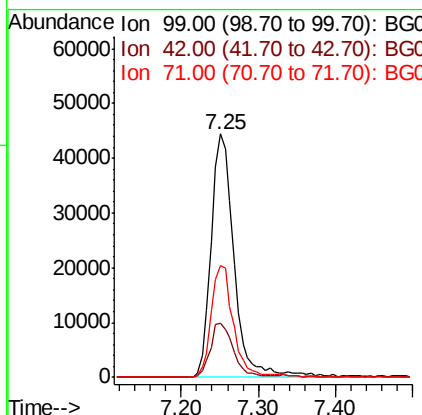
BNA_G

ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.000 ng

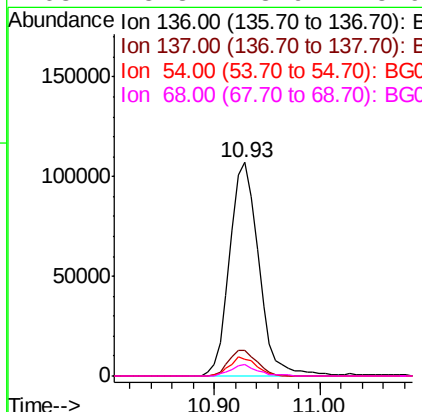
RT: 10.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Tgt Ion:	136	Resp:	204959
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.5	14.3
54	8.0	7.6	11.4
68	5.3	3.9	5.9





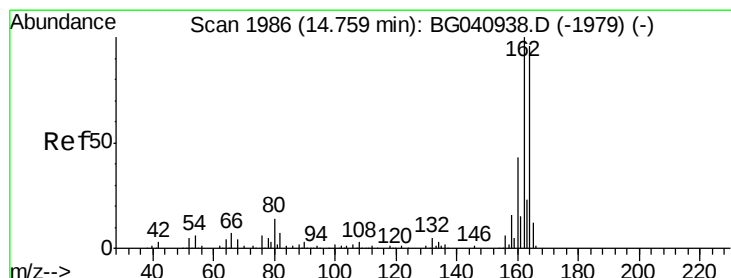
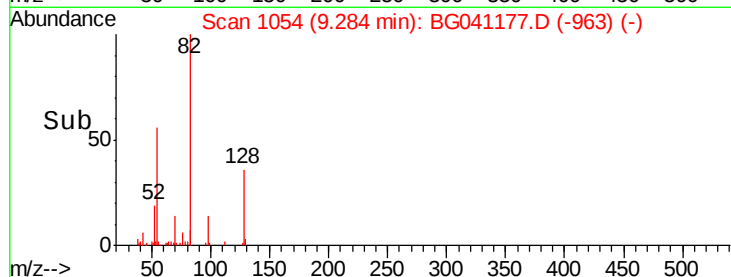
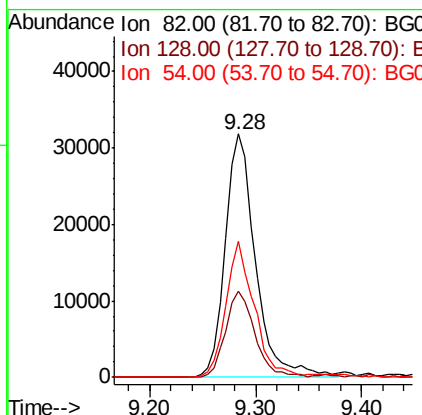
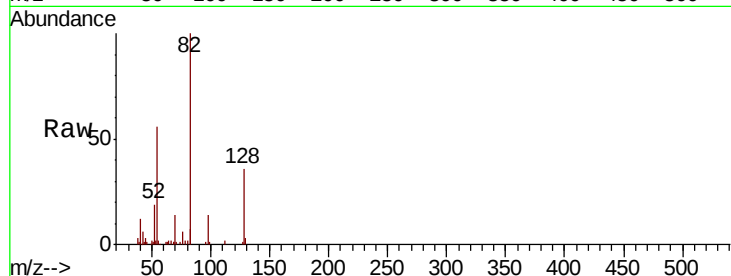
#23
Nitrobenzene-d5
Concen: 13.704 ng
RT: 9.28 min Scan# 1054
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampleId :
S-7B

Tot Ion	Ratio	Lower	Upper
82	100		
128	35.6	30.5	45.7
54	56.1	44.6	66.8

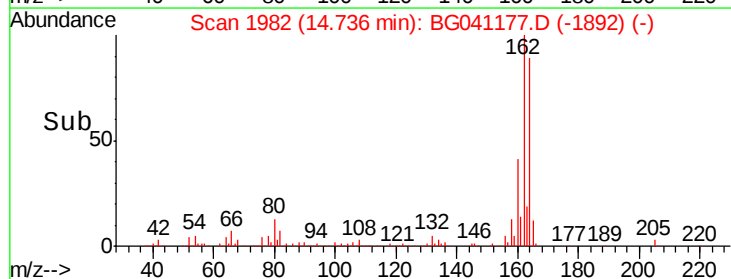
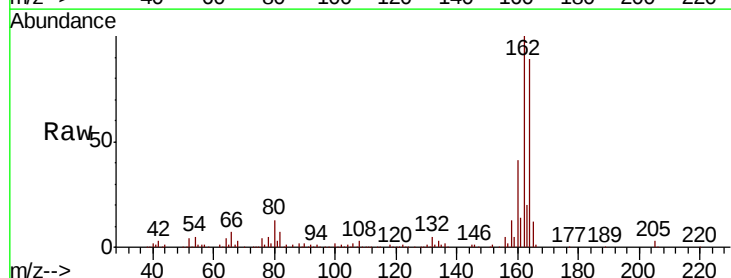
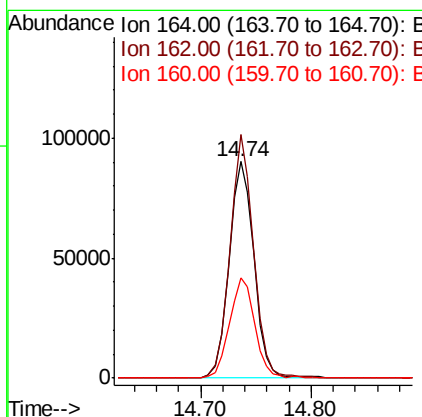
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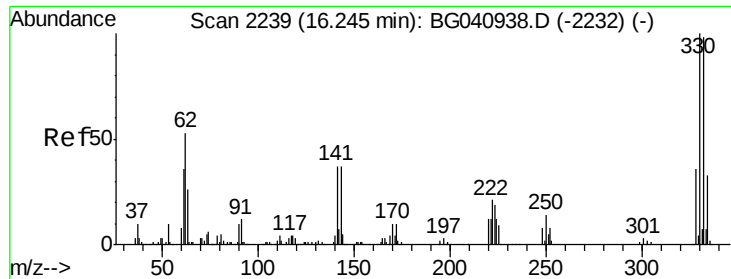
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.74 min Scan# 1982
Delta R.T. -0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	112.6	83.0	124.4
160	46.1	35.6	53.4





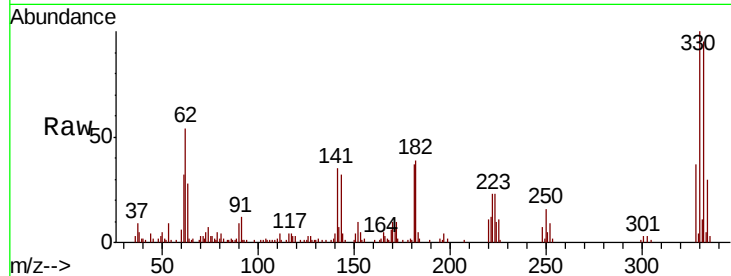
#42
 2,4,6-Tribromophenol
 Concen: 20.040 ng
 RT: 16.22 min Scan# 2235
 Delta R.T. -0.00 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

Instrument :
 BNA_G
 ClientSampleId :
 S-7B

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.5	117.7
141	35.4	28.7	43.1

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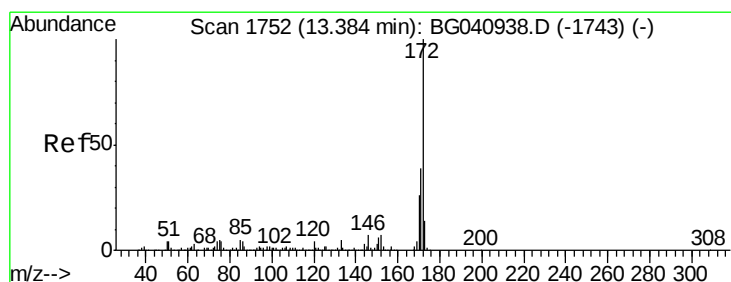
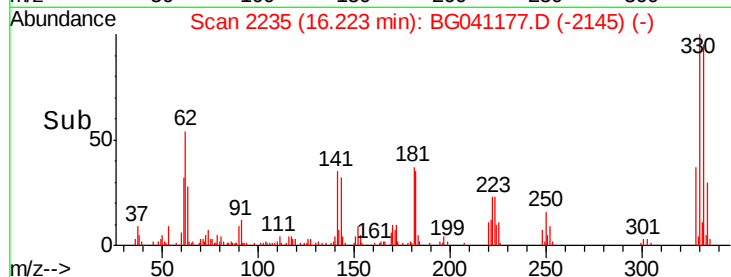
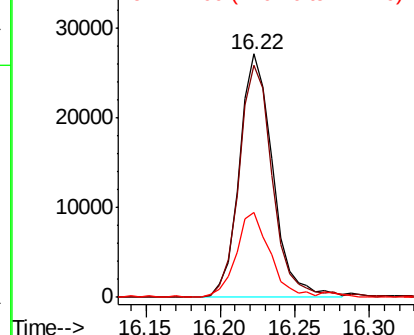


Abundance

Ion 329.80 (329.50 to 330.50): E

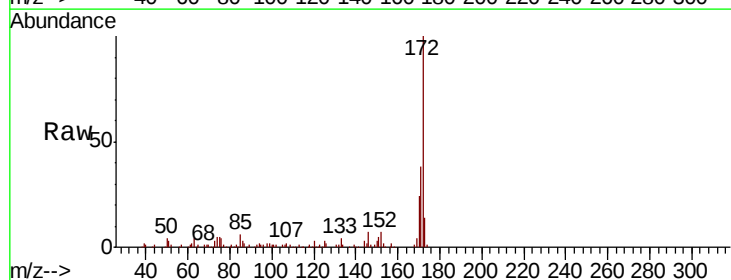
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 13.773 ng
 RT: 13.36 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.9	31.1	46.7
170	23.5	20.5	30.7

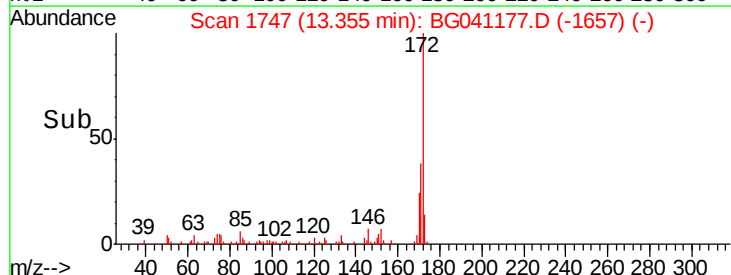
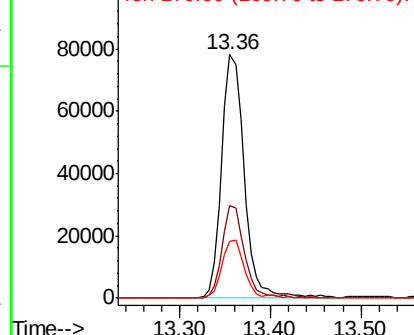


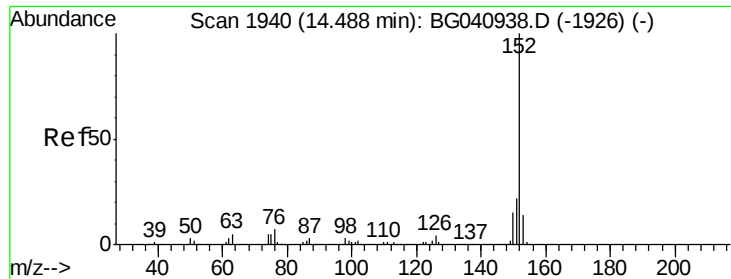
Abundance

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

Acenaphthylene

Concen: 2.471 ng

RT: 14.47 min Scan# 1937

Delta R.T. 0.01 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Instrument :

BNA_G

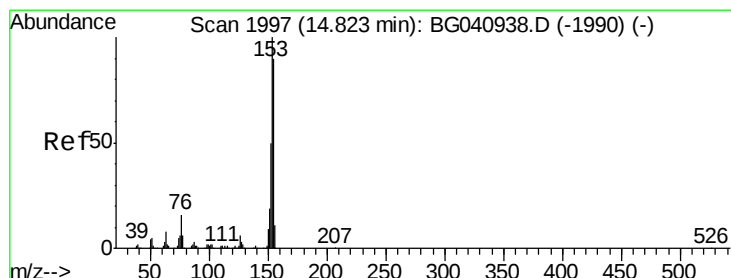
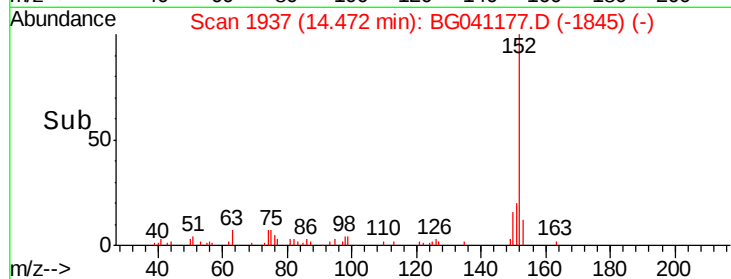
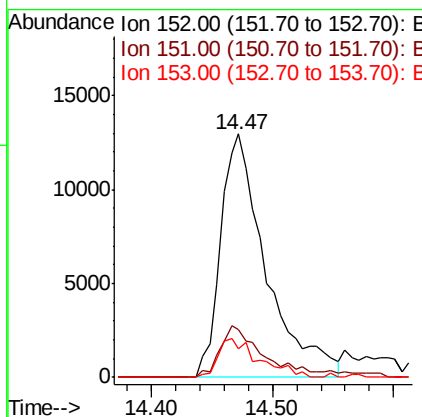
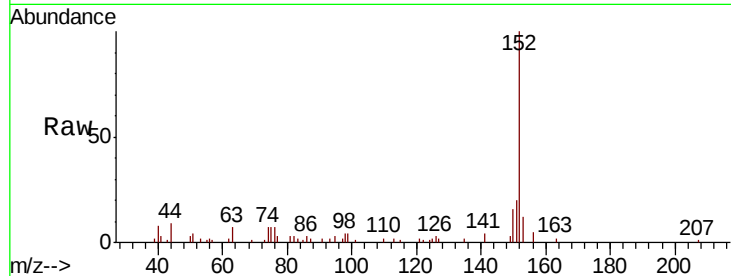
ClientSampleId :

S-7B

Tot Ion:	152	Resp:	33639
Ion Ratio	Lower	Upper	
152	100		
151	19.9	17.4	26.0
153	11.5	11.0	16.4

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#52

Acenaphthene

Concen: 2.164 ng

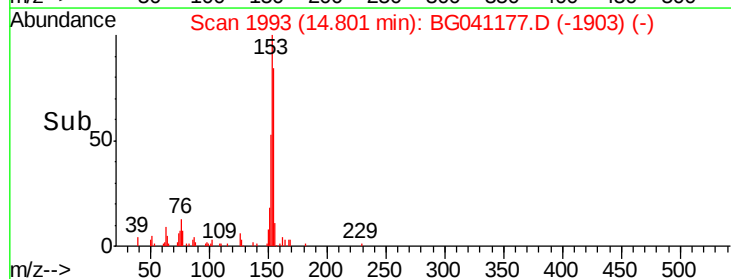
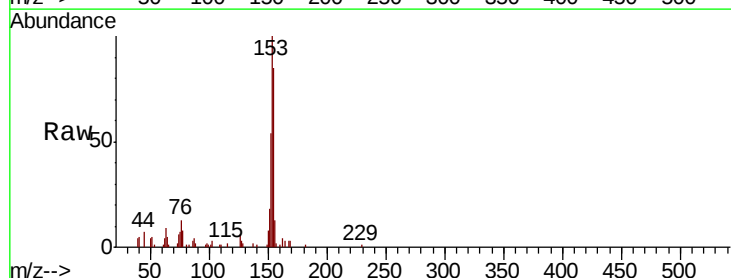
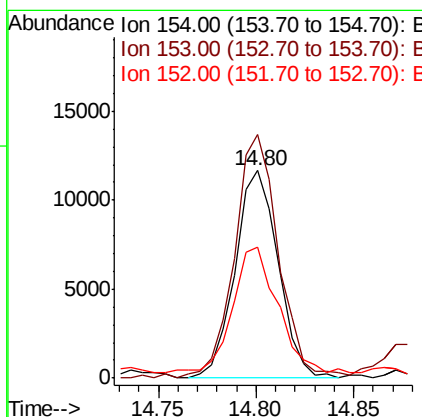
RT: 14.80 min Scan# 1993

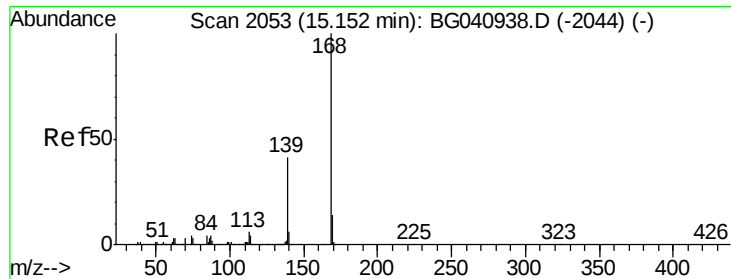
Delta R.T. -0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Tgt Ion:	154	Resp:	17848
Ion Ratio	Lower	Upper	
154	100		
153	117.3	88.6	133.0
152	63.2	44.2	66.4





#55

Dibenzenofuran

Concen: 2.544 ng

RT: 15.14 min Scan# 2050

Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Instrument :

BNA_G

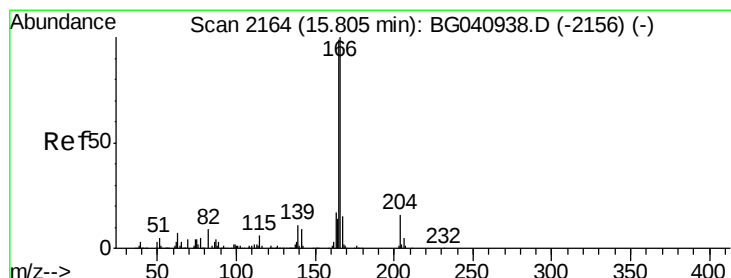
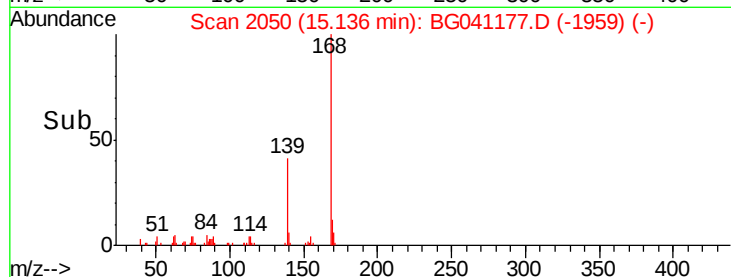
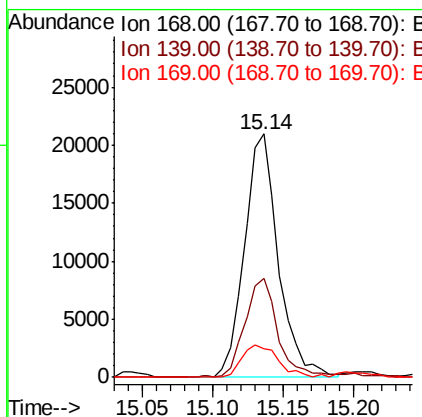
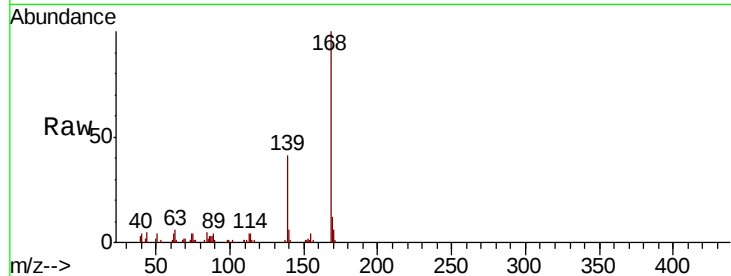
ClientSampled :

S-7B

Tot Ion:	168	Resp:	35311
Ion Ratio	Lower	Upper	
168	100		
139	40.7	32.8	49.2
169	11.7	11.3	16.9

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#58

Fluorene

Concen: 3.592 ng

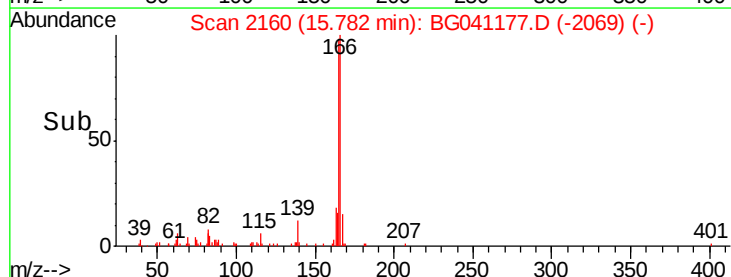
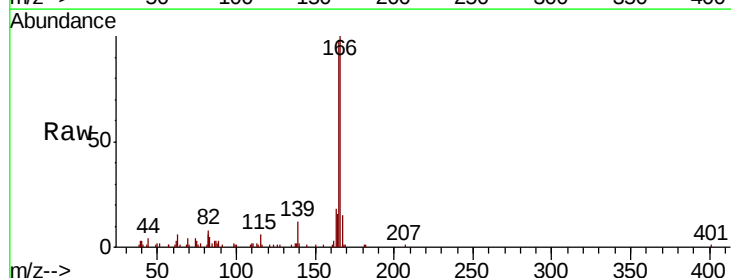
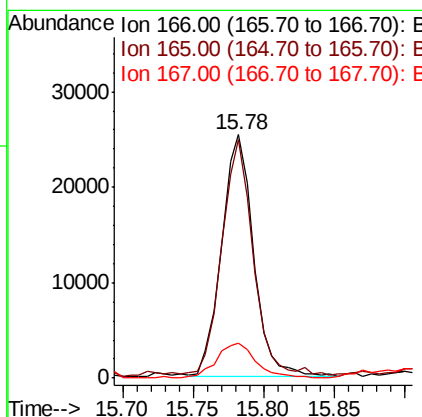
RT: 15.78 min Scan# 2160

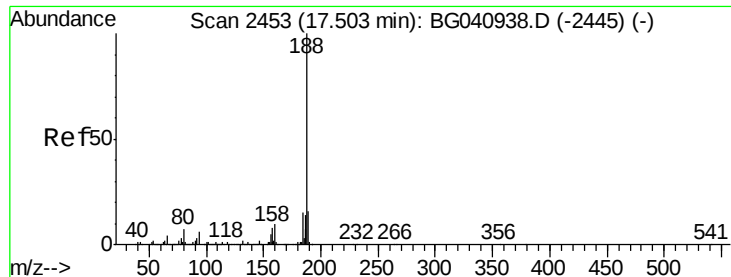
Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Tgt Ion:	166	Resp:	39695
Ion Ratio	Lower	Upper	
166	100		
165	98.1	79.2	118.8
167	14.5	11.8	17.6





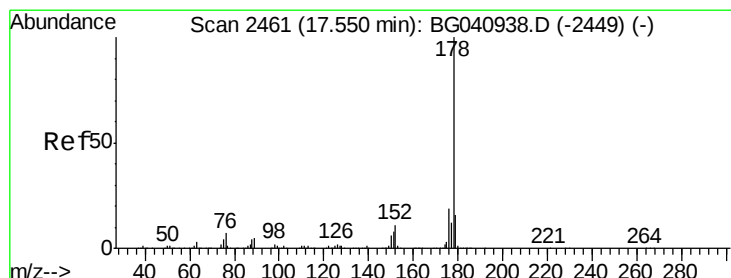
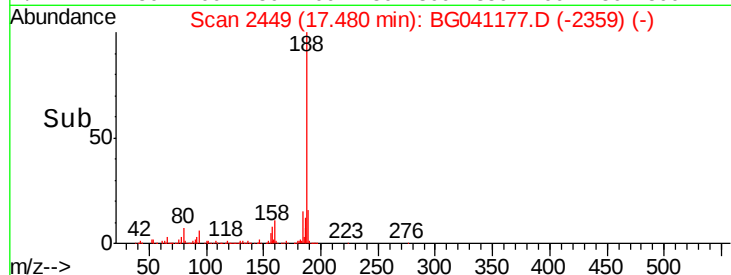
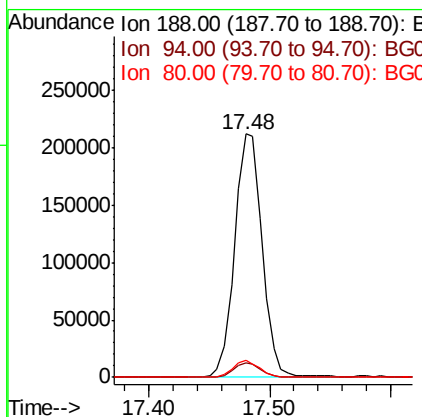
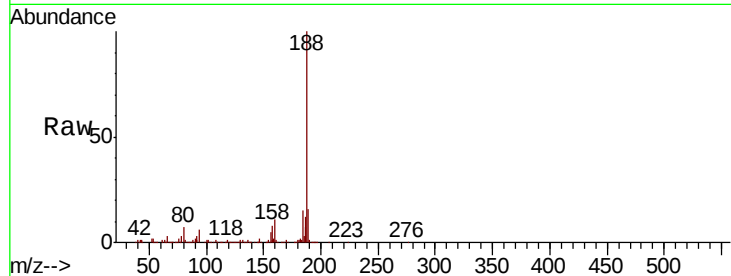
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.48 min Scan# 2449
Delta R.T. -0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampleId :
S-7B

Tot Ion	Ratio	Resp	Lower	Upper
188	100	336624		
94	5.7		4.7	7.1
80	6.9		5.8	8.8

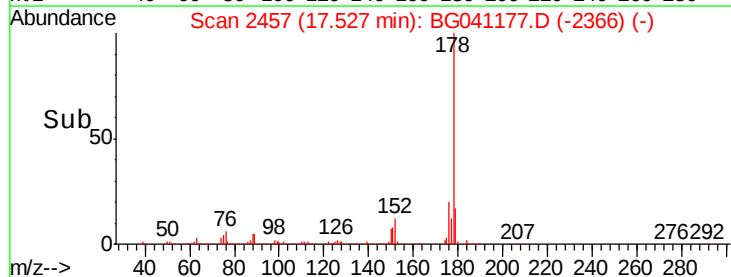
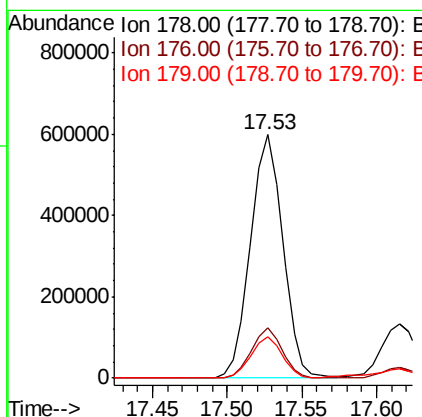
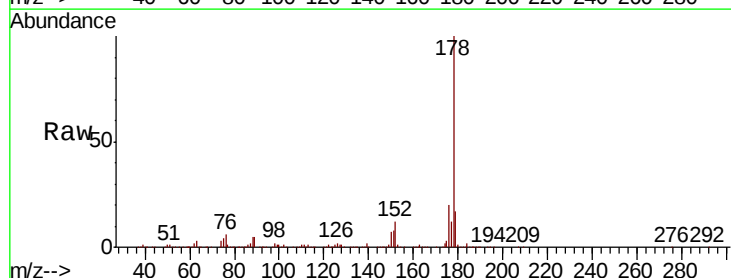
Manual Integrations
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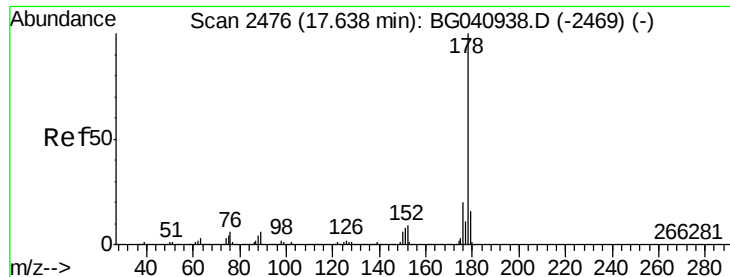
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#71
Phenanthrene
Concen: 51.329 ng
RT: 17.53 min Scan# 2457
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	900011		
176	20.4		15.5	23.3
179	17.0		12.7	19.1





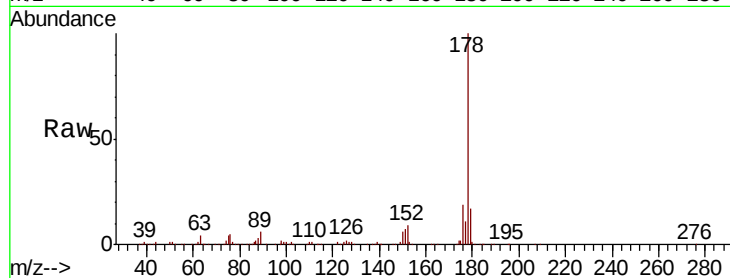
#72
 Anthracene
 Concen: 12.109 ng
 RT: 17.62 min Scan# 2472
 Delta R.T. 0.00 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

Instrument :
 BNA_G
 ClientSampleId :
 S-7B

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	16.5	13.0	19.4

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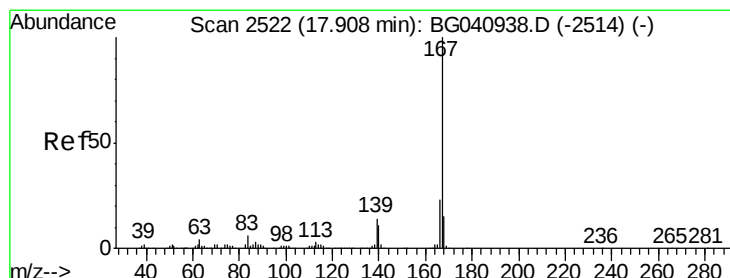
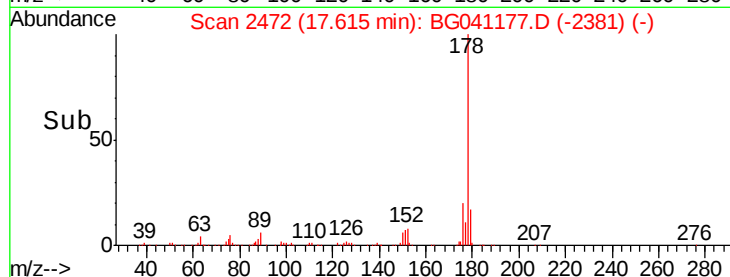
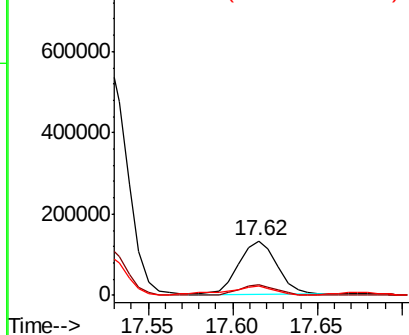


Abundance

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



#73
 Carbazole
 Concen: 6.518 ng
 RT: 17.89 min Scan# 2518
 Delta R.T. -0.00 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

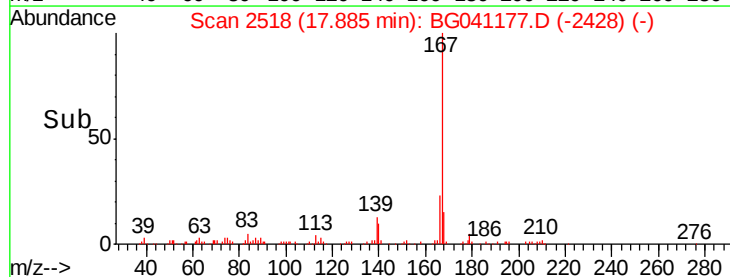
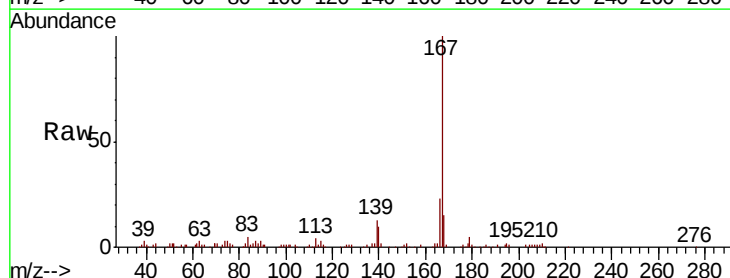
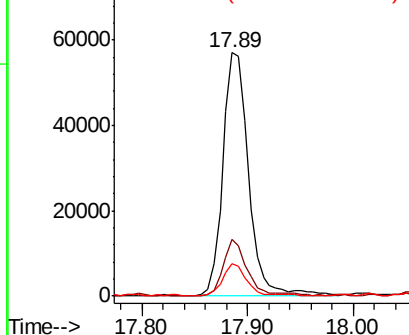
Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.2	18.2	27.4
139	13.1	10.8	16.2

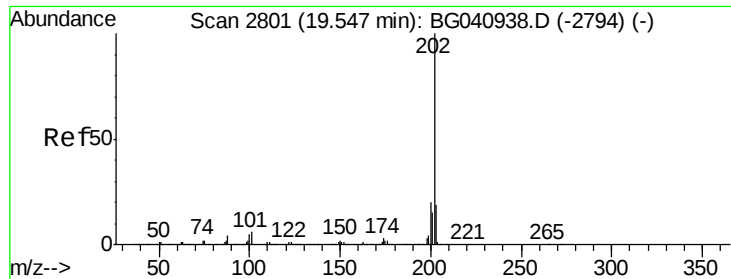
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 66.706 ng

RT: 19.53 min Scan# 2798

Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Instrument :

BNA_G

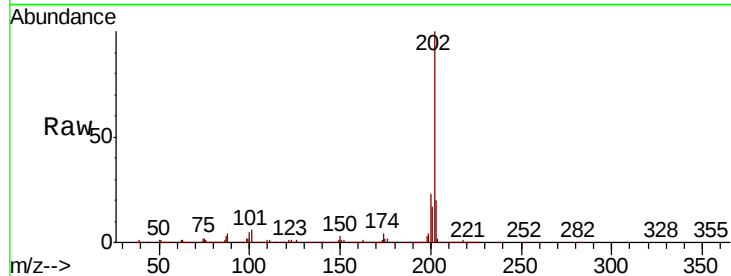
ClientSampleId :

S-7B

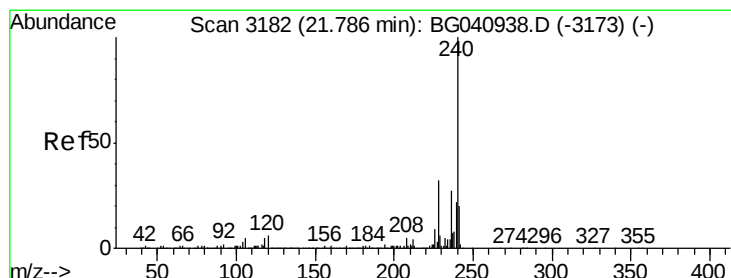
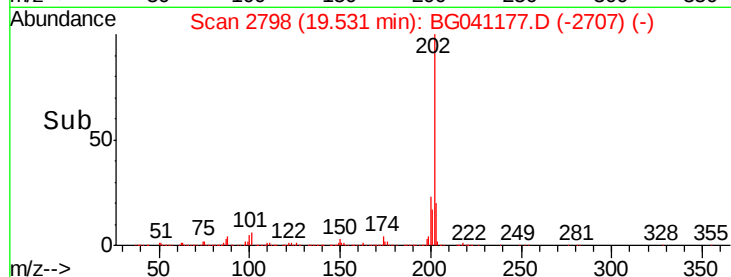
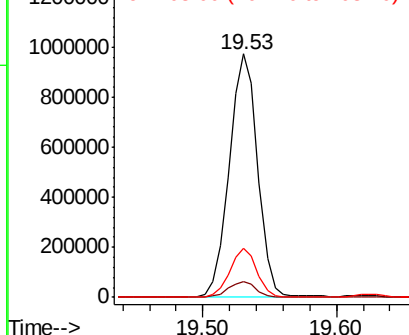
Tot Ion:	202	Resp:	1444702
Ion Ratio	Lower	Upper	
202	100		
101	6.4	0.0	26.2
203	20.4	0.0	38.7

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

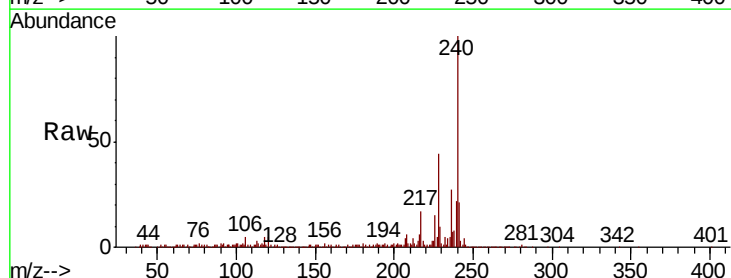
RT: 21.76 min Scan# 3178

Delta R.T. 0.00 min

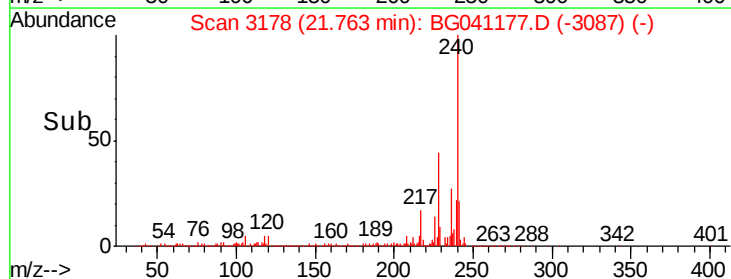
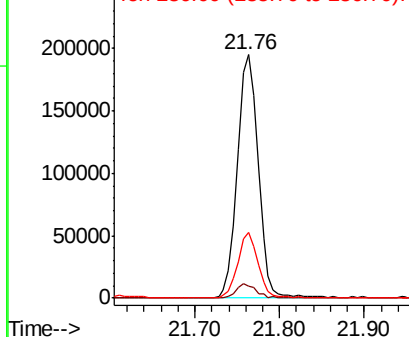
Lab File: BG041177.D

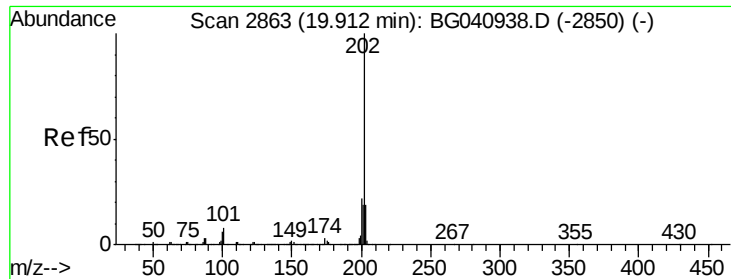
Acq: 10 Jun 2019 23:59

Tgt Ion:	240	Resp:	329296
Ion Ratio	Lower	Upper	
240	100		
120	4.7	4.5	6.7
236	26.9	21.3	31.9



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





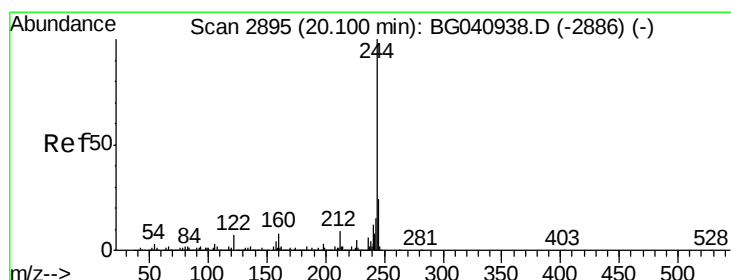
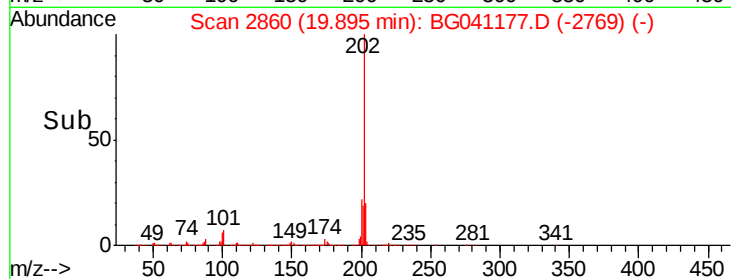
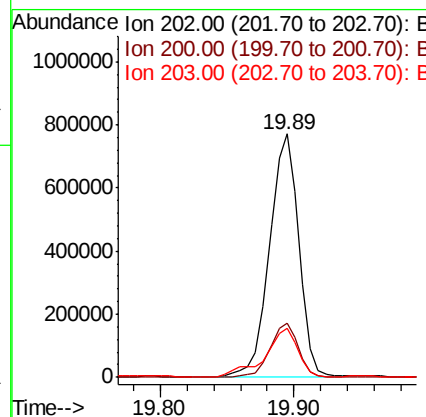
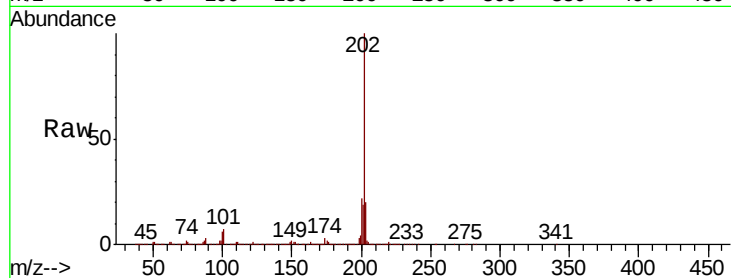
#78
Pvrene
Concen: 54.799 ng
RT: 19.89 min Scan# 2860
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampleId :
S-7B

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.5	26.3
203	20.1	15.6	23.4

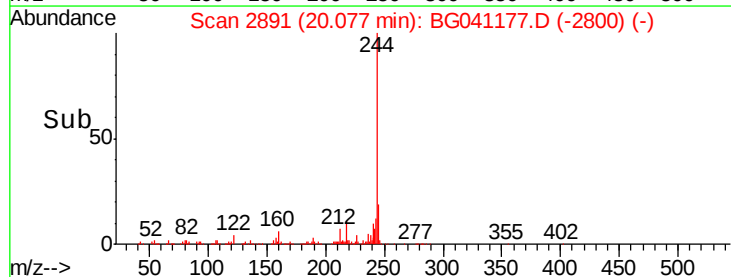
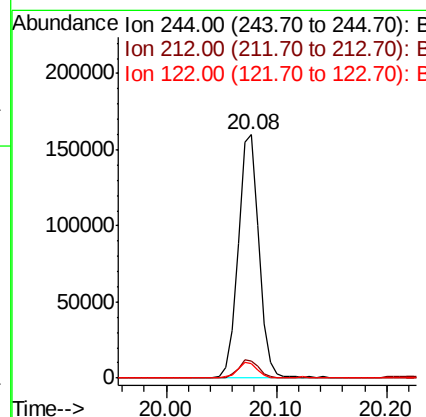
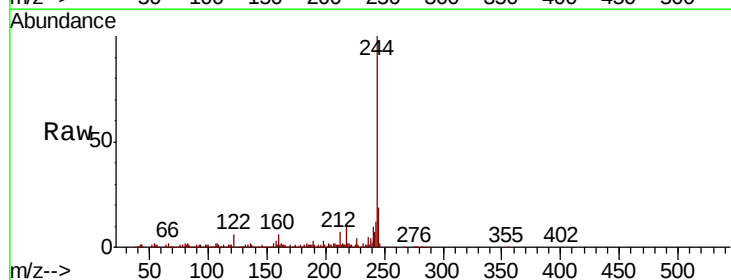
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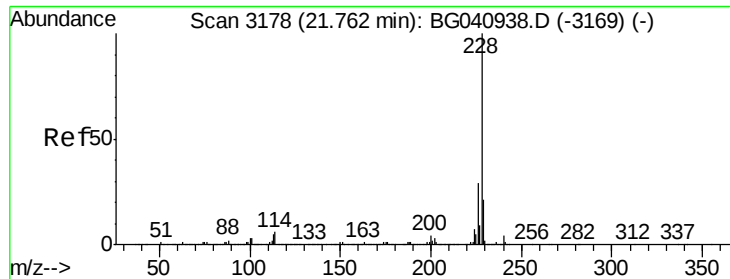
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#79
Terphenyl-d14
Concen: 13.668 ng
RT: 20.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	7.0	10.4
122	5.7	5.4	8.0





#81

Benzo(a)anthracene

Concen: 33.781 ng

RT: 21.74 min Scan# 3174

Delta R.T. 0.00 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Instrument :

BNA_G

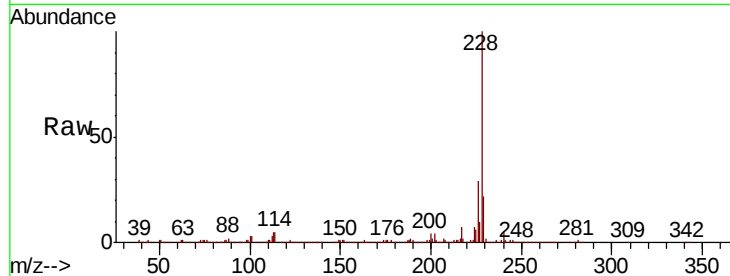
ClientSampled :

S-7B

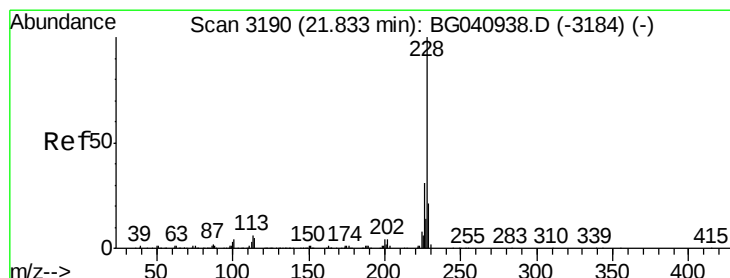
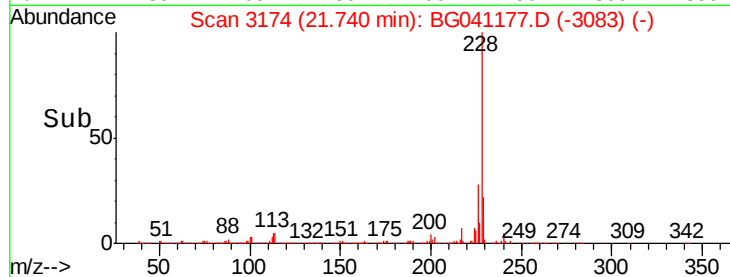
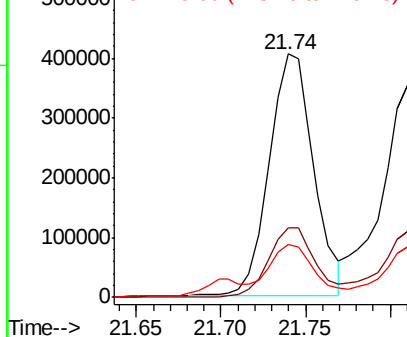
Tot Ion:	228	Resp:	740488
Ion Ratio	Lower	Upper	
228	100		
226	28.6	23.5	35.3
229	21.9	16.7	25.1

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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



#83

Chrysene

Concen: 30.705 ng

RT: 21.81 min Scan# 3186

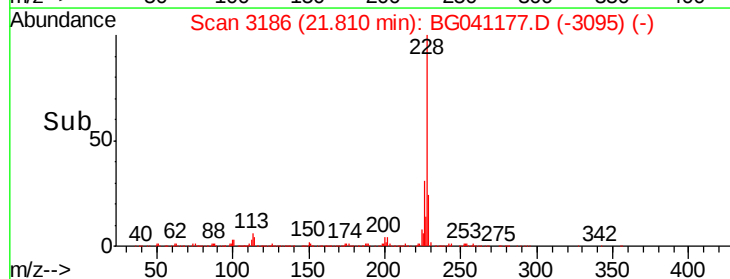
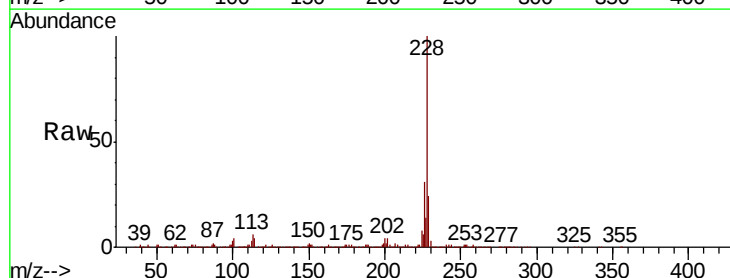
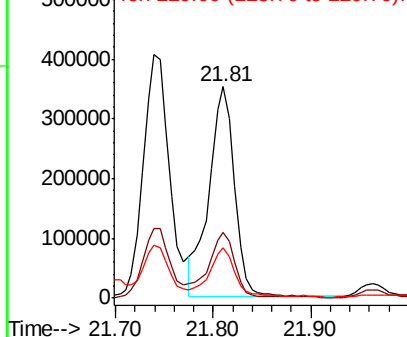
Delta R.T. 0.00 min

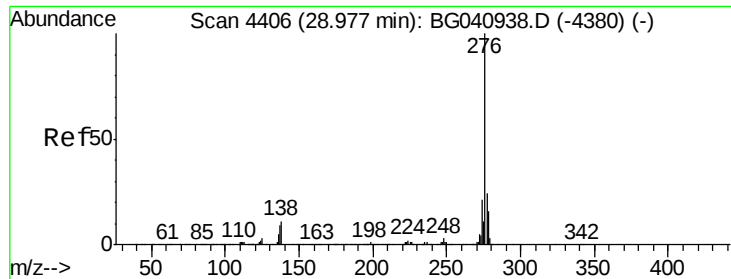
Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Tgt Ion:	228	Resp:	644092
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.6	37.0
229	24.0	16.6	24.8

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





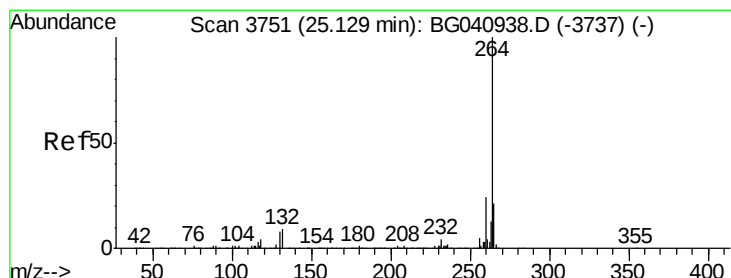
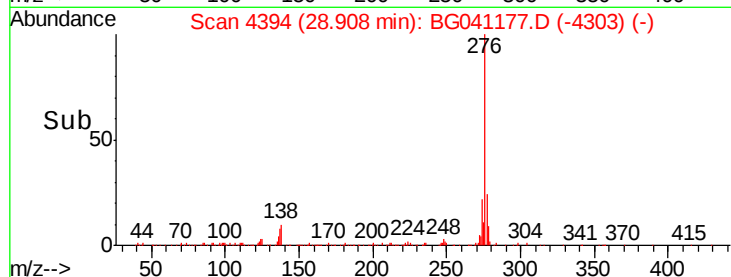
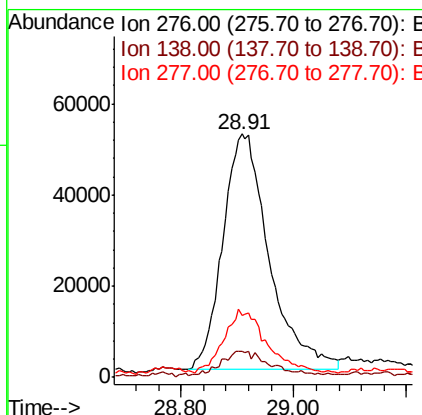
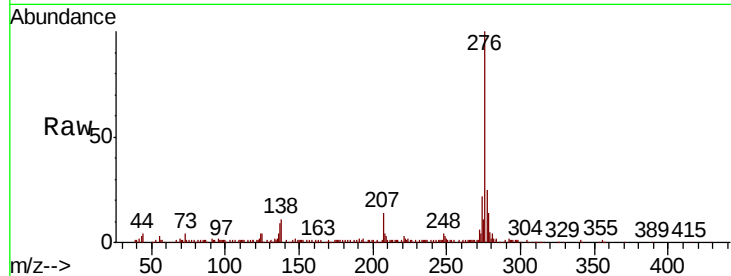
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 11.481 ng
 RT: 28.91 min Scan# 4394
 Delta R.T. 0.00 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

Instrument :
 BNA_G
 ClientSampleId :
 S-7B

Tot Ion	Ratio	Lower	Upper
276	100		
138	9.1	5.7	8.5#
277	24.1	20.8	31.2

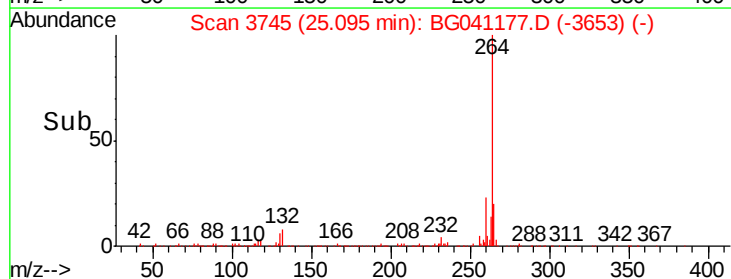
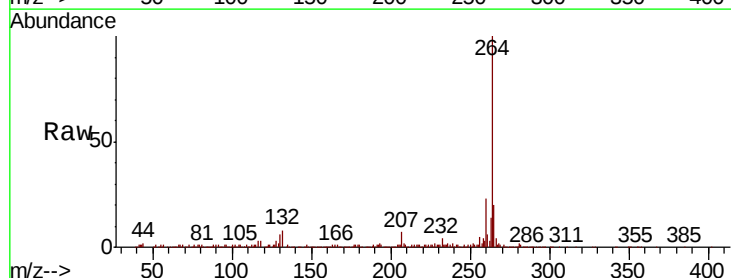
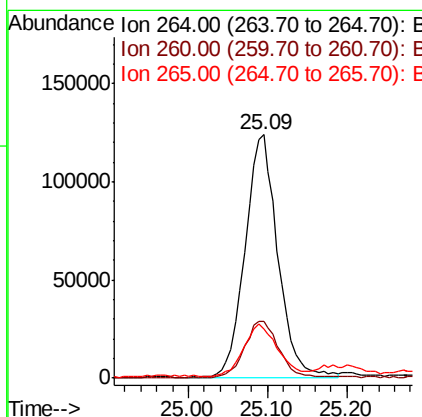
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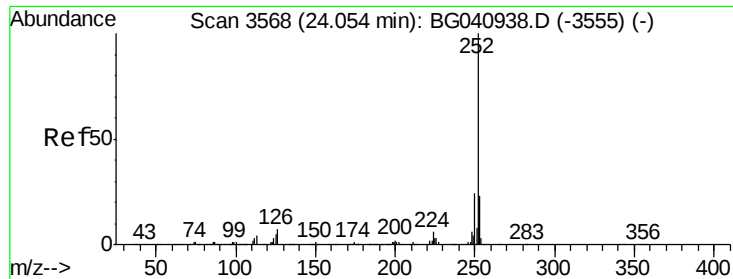
mohammad
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.09 min Scan# 3745
 Delta R.T. 0.01 min
 Lab File: BG041177.D
 Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.4
265	20.3	17.0	25.4





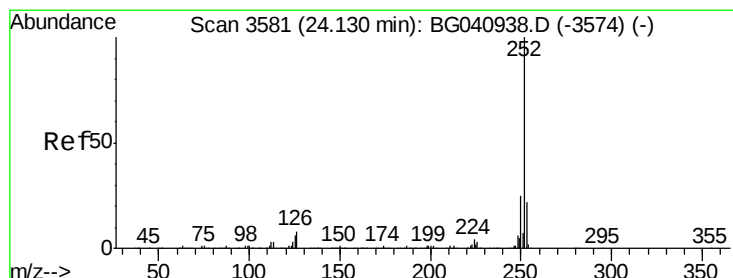
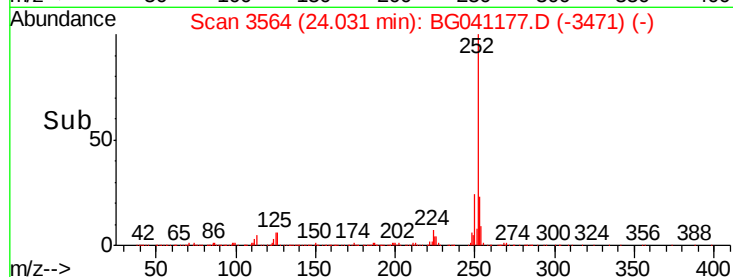
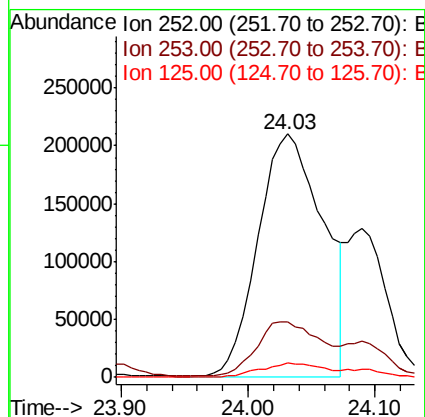
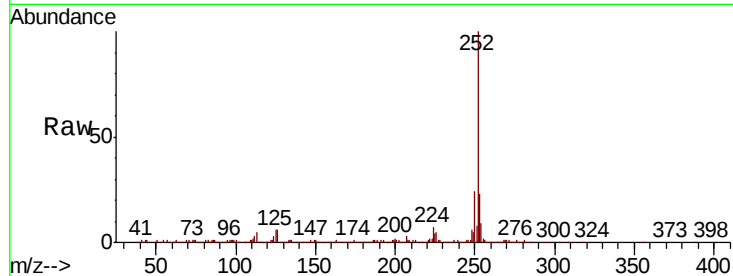
#88
Benzo(b)fluoranthene
Concen: 34.831 ng
RT: 24.03 min Scan# 3564
Delta R.T. 0.02 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampled :
S-7B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	6.0	4.3	6.5

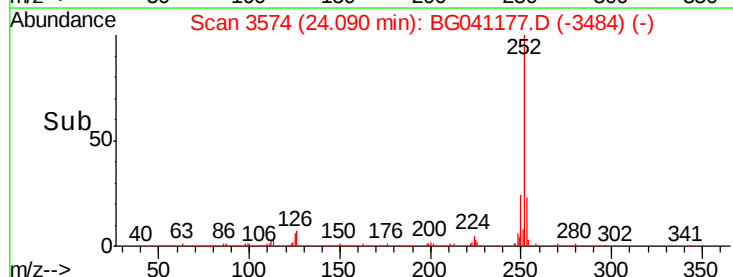
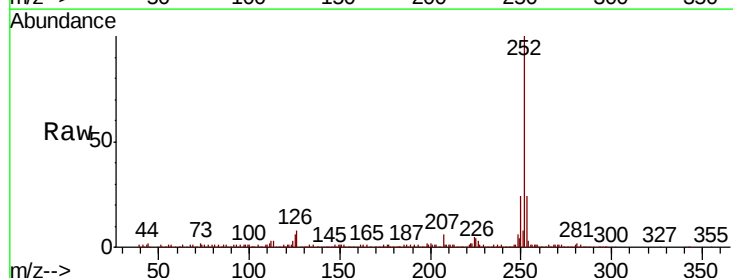
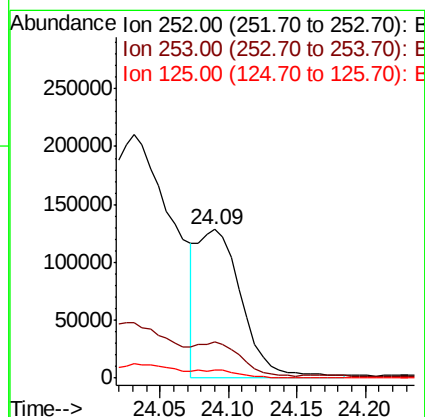
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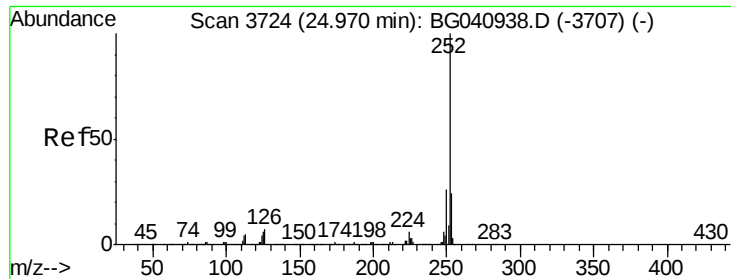
mohammad
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#89
Benzo(k)fluoranthene
Concen: 13.535 ng m
RT: 24.09 min Scan# 3574
Delta R.T. -0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	5.8	4.7	7.1





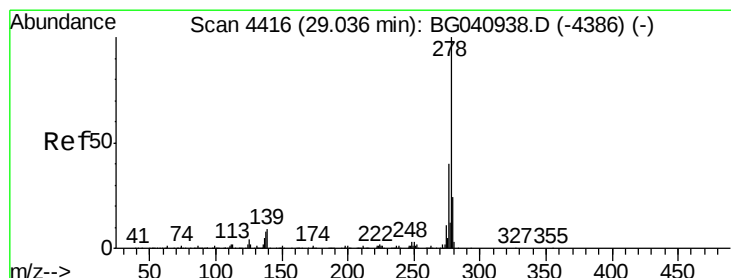
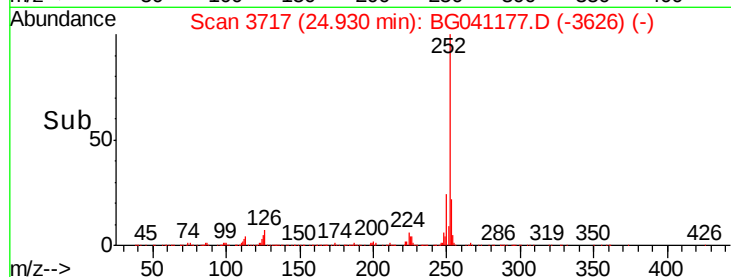
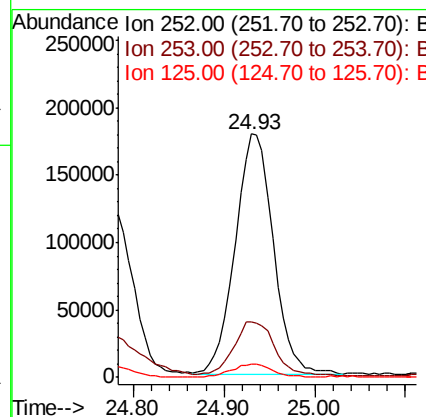
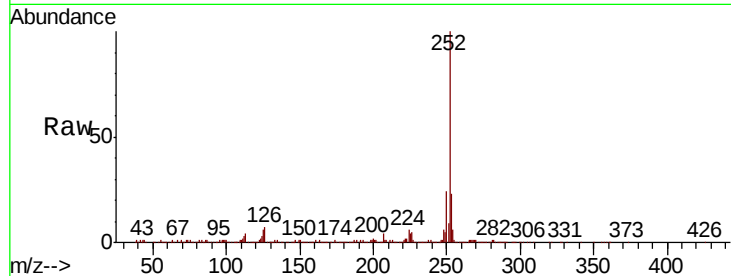
#90
Benzo(a)pyrene
Concen: 25.560 ng
RT: 24.93 min Scan# 3717
Delta R.T. 0.00 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Instrument :
BNA_G
ClientSampled :
S-7B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.5	29.3
125	5.6	5.1	7.7

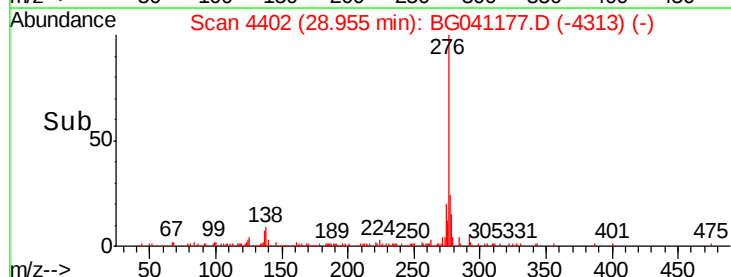
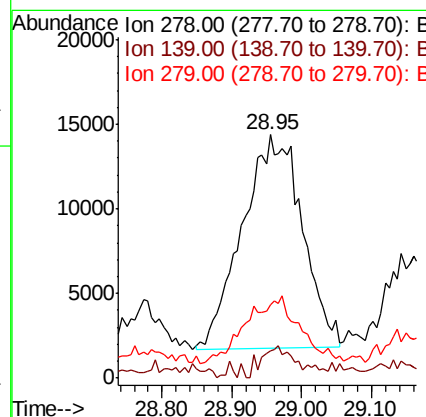
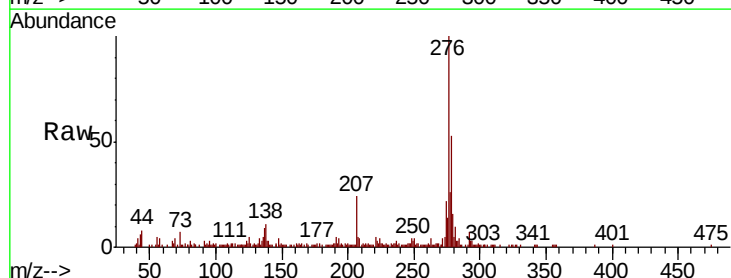
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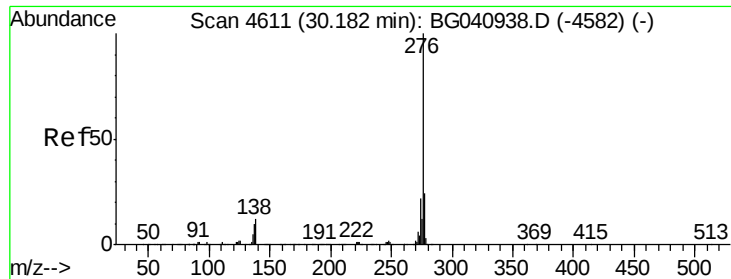
mohammad
6/14/2019 8:40:07 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.668 ng m
RT: 28.95 min Scan# 4402
Delta R.T. -0.01 min
Lab File: BG041177.D
Acq: 10 Jun 2019 23:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	6.5	7.1	10.7#
279	30.0	19.4	29.2#





#92

Benzo(a,h,i)perylene

Concen: 12.392 ng

RT: 30.12 min Scan# 4601

Delta R.T. 0.01 min

Lab File: BG041177.D

Acq: 10 Jun 2019 23:59

Instrument :

BNA_G

ClientSampleId :

S-7B

Tot Ion:	276	Resp:	246302
Ion Ratio	Lower	Upper	
276	100		
277	23.1	19.4	29.0
138	11.2	9.7	14.5

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