

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061917\
 Data File : BG027542.D
 Acq On : 19 Jun 2017 23:36
 Operator : SJ/MA
 Sample : I3599-10DL 30X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleID :
 F5B24DL

Manual Integrations
 APPROVED

mohammad
 6/20/2017 11:51:06 AM

Quant Time: Jun 20 02:28:31 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG061617.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jun 20 01:50:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.52	152	33460	20.00	ng/ul	0.00
18) Naphthalene-d8	11.34	136	173959	20.00	ng/ul	0.00
35) Acenaphthene-d10	15.10	164	113972	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.85	188	257914	20.00	ng/ul	0.00
75) Chrysene-d12	22.23	240	289184	20.00	ng/ul	0.00
83) Perylene-d12	25.89	264	271268	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.66	99	1763	0.49	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.84	67	1292	0.52	ng/ul	0.00
9) 2-Chlorophenol-d4	8.06	132	1349	0.56	ng/ul	0.00
13) 4-Methylphenol-d8	9.19	113	1440	0.51	ng/ul	0.00
19) Nitrobenzene-d5	9.69	128	527	0.42	ng/ul	0.00
22) 2-Nitrophenol-d4	10.40	143	595	0.44	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.95	165	1070	0.42	ng/ul	0.00
29) 4-Chloroaniline-d4	11.47	131	1290	0.40	ng/ul	0.00
43) Dimethylphthalate-d6	14.49	166	4889	0.51	ng/ul	0.00
46) Acenaphthylene-d8	14.80	160	5810	0.53	ng/ul	0.00
51) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
57) Fluorene-d10	16.09	176	5594	0.62	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
70) Anthracene-d10	17.95	188	7854	0.65	ng/ul	0.00
76) Pyrene-d10	20.22	212	8696	0.62	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.63	264	8233	0.67	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	11.39	128	53312	5.96	ng/ul	98
34) 2-Methylnaphthalene	12.95	142	17514	2.64	ng/ul	92
49) Acenaphthene	15.17	153	112929	14.70	ng/ul	96
53) Dibenzofuran	15.50	168	64382	5.75	ng/ul	96
58) Fluorene	16.14	166	103520	11.14	ng/ul	97
69) Phenanthrene	17.90	178	446748	32.23	ng/ul	98
71) Anthracene	17.99	178	158676	11.26	ng/ul	98
72) Carbazole	18.25	167	39500	3.26	ng/ul	96
74) Fluoranthene	19.89	202	1313728	84.24	ng/ul#	88
77) Pyrene	20.25	202	996545	58.30	ng/ul#	84
80) Benzo(a)anthracene	22.21	228	427977	26.58	ng/ul	98
82) Chrysene	22.28	228	441084	30.33	ng/ul	98
85) Benzo(b)fluoranthene	24.72	252	543831	33.66	ng/ul#	97
86) Benzo(k)fluoranthene	24.78	252	189907m	12.23	ng/ul	
88) Benzo(a)pyrene	25.71	252	247477	15.95	ng/ul#	95
89) Indeno(1,2,3-cd)pyrene	30.08	276	131311	7.42	ng/ul#	93
90) Dibenzo(a,h)anthracene	30.12	278	39607m	2.61	ng/ul	
91) Benzo(g,h,i)perylene	31.40	276	41336	2.85	ng/ul#	89

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

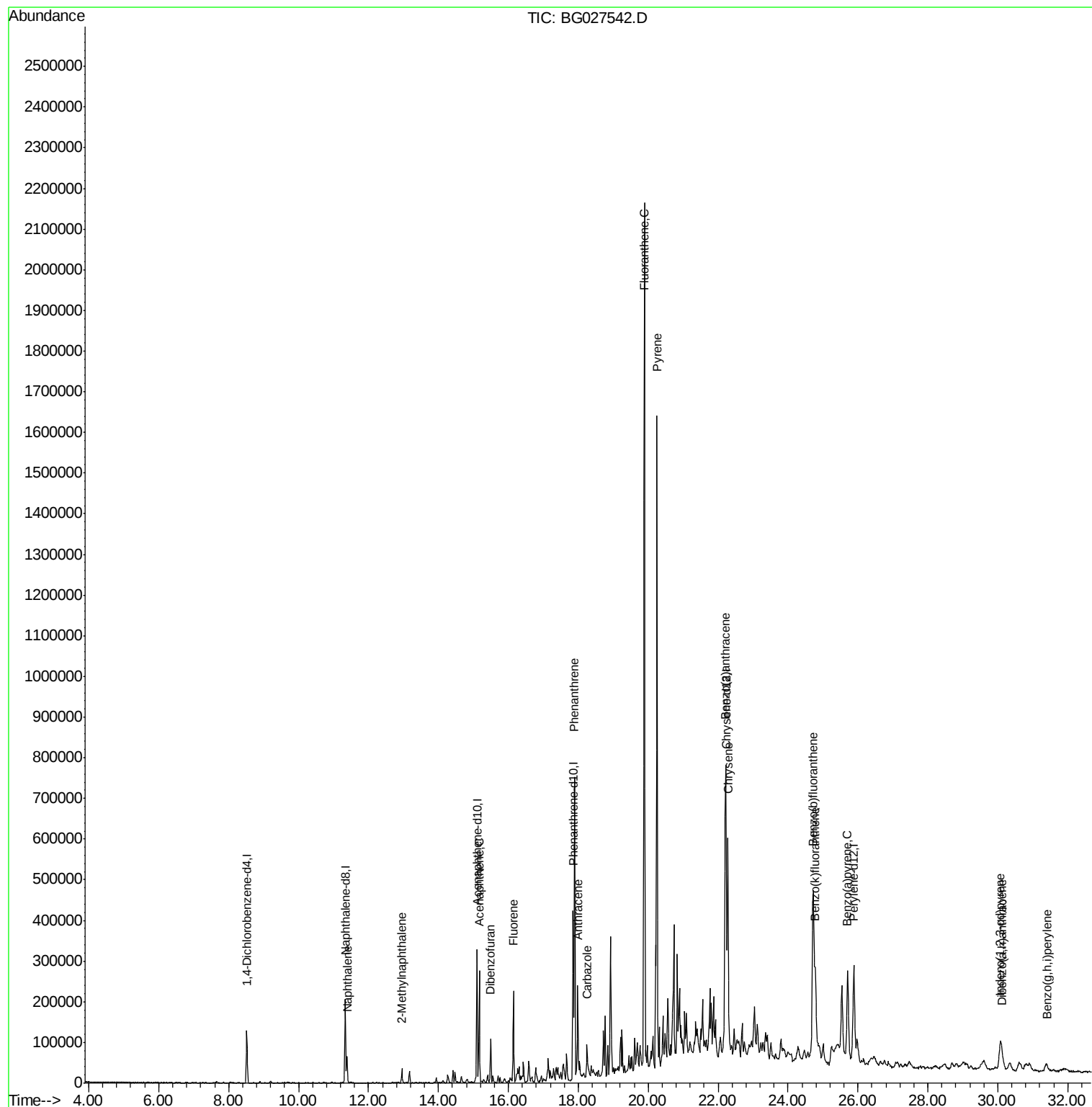
Data Path : Z:\HPCHEM1\BNA G\DATA\BG061917\
Data File : BG027542.D
Acq On : 19 Jun 2017 23:36
Operator : SJ/MA
Sample : I3599-10DL 30X
Misc :
ALS Vial : 21 Sample Multiplier: 1

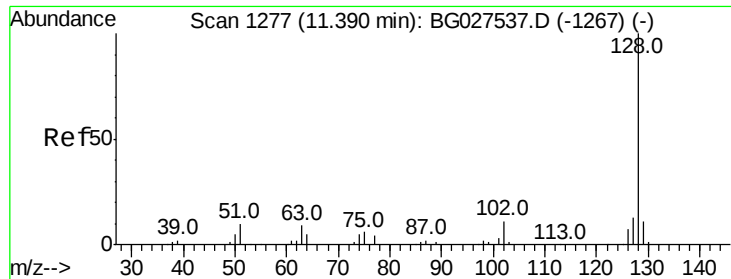
Instrument :
BNA_G
ClientSampleId :
F5B24DL

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG061617.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 20 01:50:01 2017
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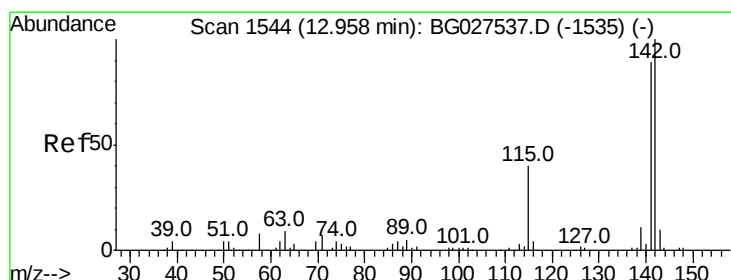
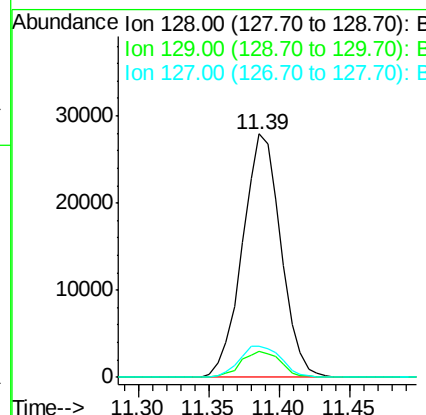
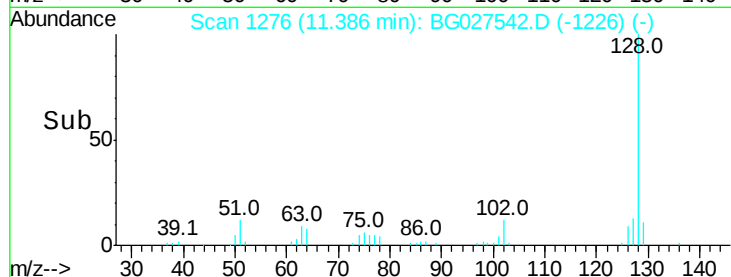
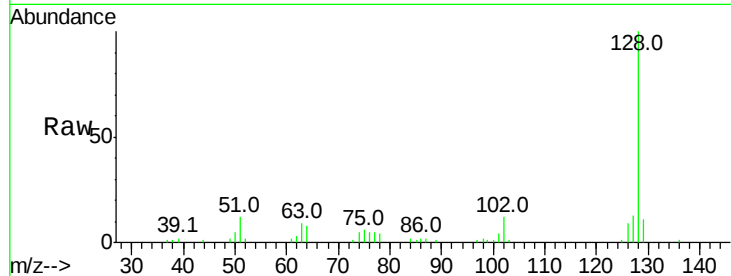
#28
Naphthalene
Concen: 5.96 ng/ul
RT: 11.39 min Scan# 1276
Delta R.T. -0.00 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Instrument :
BNA_G
ClientSampleId :
F5B24DL

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.4	14.2
127	12.7	10.3	15.5

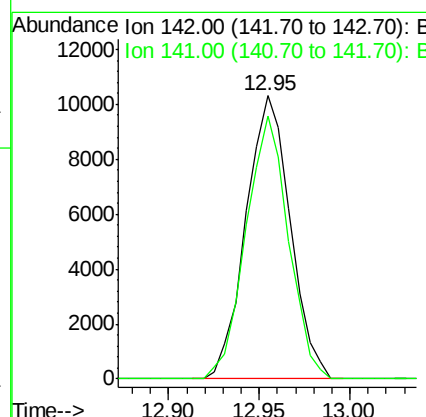
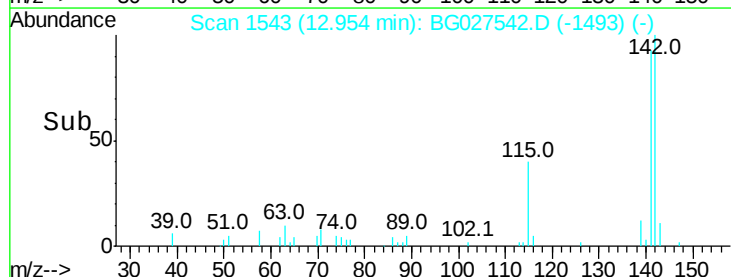
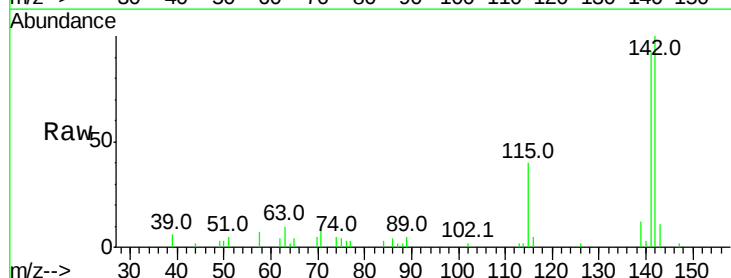
Manual Integrations
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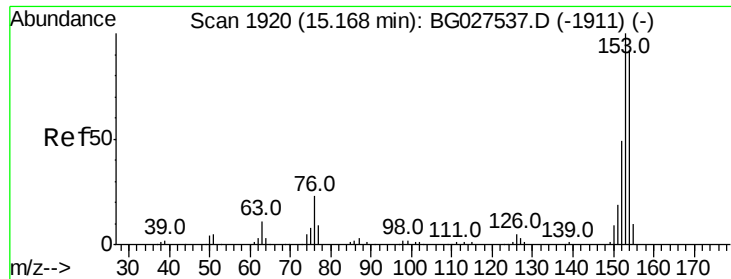
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#34
2-Methylnaphthalene
Concen: 2.64 ng/ul
RT: 12.95 min Scan# 1543
Delta R.T. -0.00 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.8	68.6	102.8





#49

Acenaphthene

Concen: 14.70 ng/ul

RT: 15.17 min Scan# 1920

Delta R.T. 0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Instrument :

BNA_G

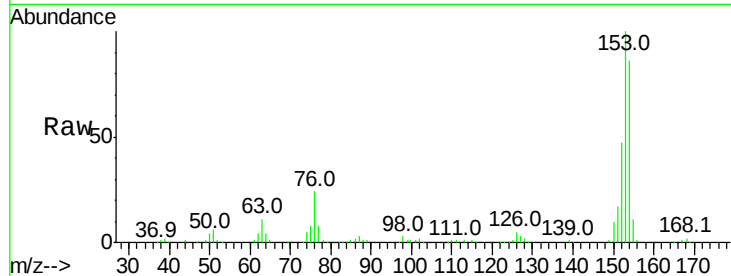
ClientSampleId :

F5B24DL

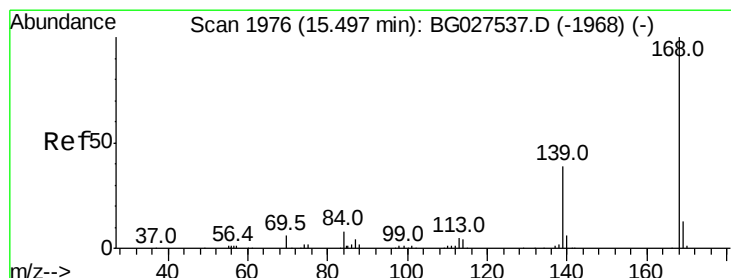
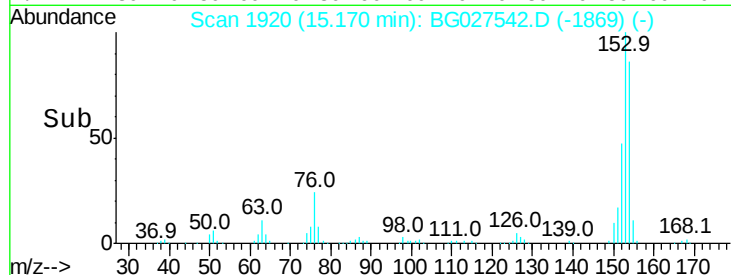
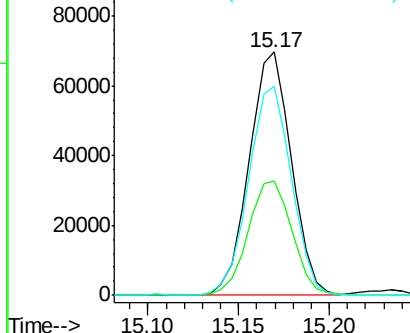
Tot Ion:	153	Resp:	112929
Ion Ratio	Lower	Upper	
153	100		
152	47.1	36.5	54.7
154	86.0	72.3	108.5

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Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 5.75 ng/ul

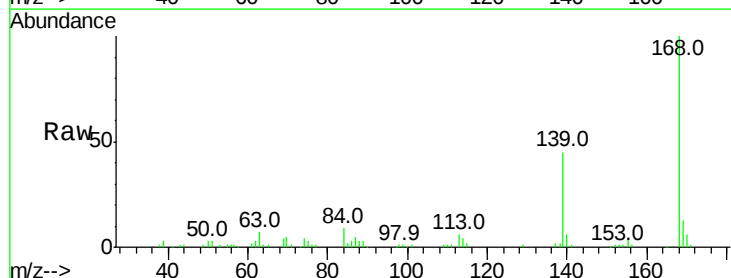
RT: 15.50 min Scan# 1976

Delta R.T. 0.00 min

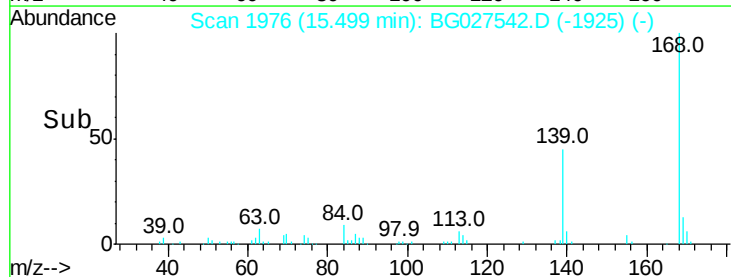
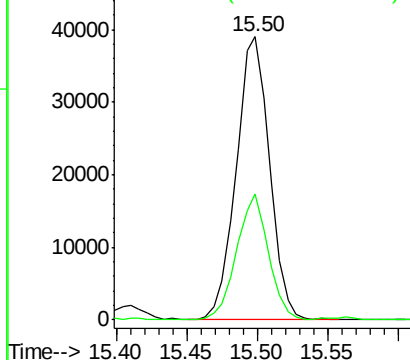
Lab File: BG027542.D

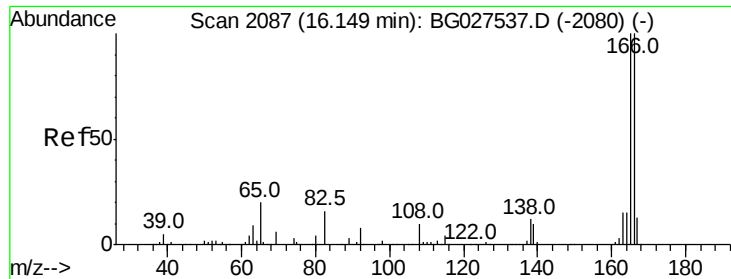
Acq: 19 Jun 2017 23:36

Tgt Ion:	168	Resp:	64382
Ion Ratio	Lower	Upper	
168	100		
139	44.7	33.8	50.8



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 11.14 ng/ul

RT: 16.14 min Scan# 2086

Delta R.T. -0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Instrument :

BNA_G

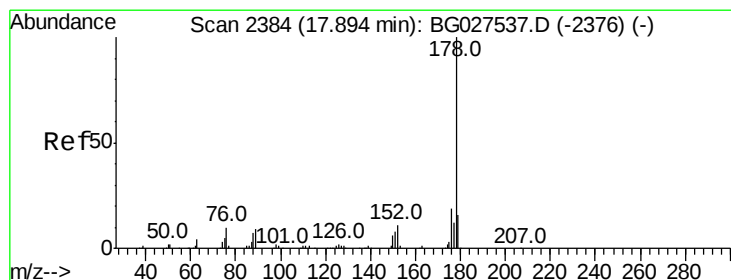
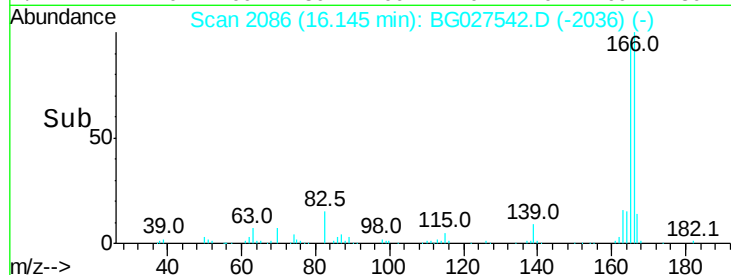
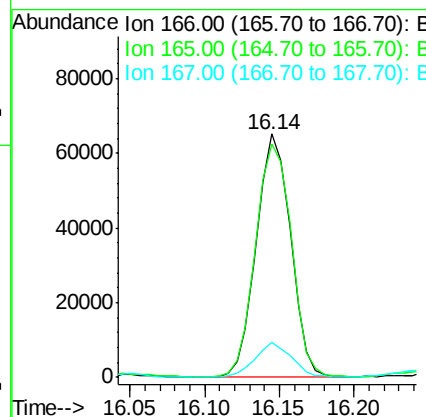
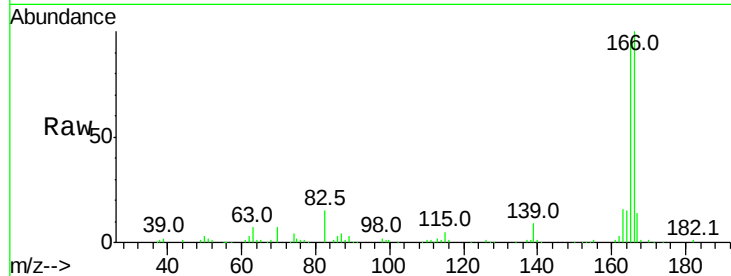
ClientSampleId :

F5B24DL

Tot Ion:	166	Resp:	103520
Ion Ratio	Lower	Upper	
166	100		
165	96.1	79.7	119.5
167	14.3	11.4	17.2

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#69

Phenanthrene

Concen: 32.23 ng/ul

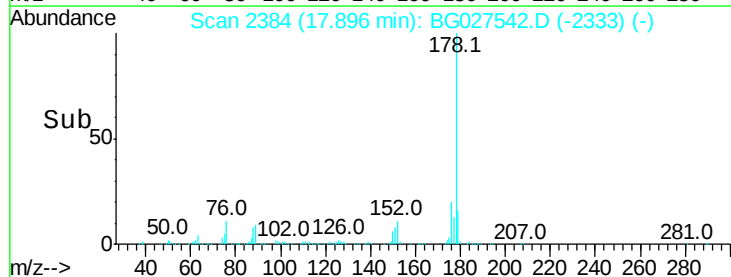
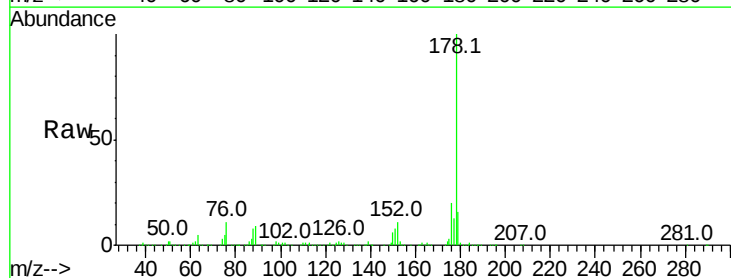
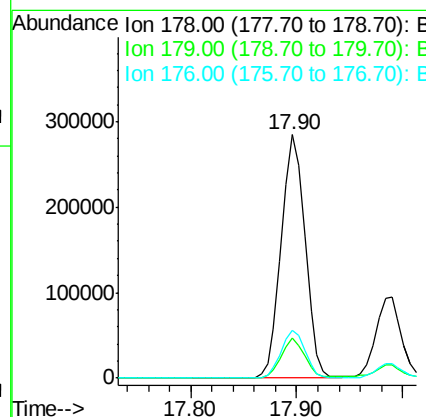
RT: 17.90 min Scan# 2384

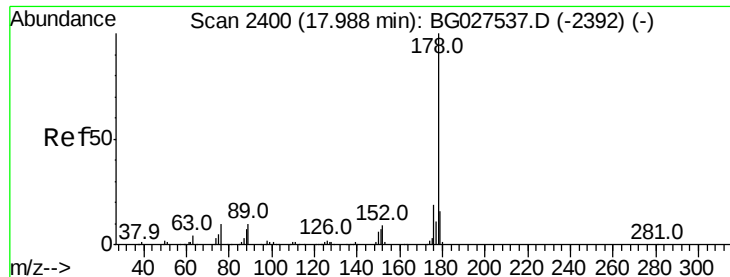
Delta R.T. 0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Tgt Ion:	178	Resp:	446748
Ion Ratio	Lower	Upper	
178	100		
179	16.4	12.4	18.6
176	19.8	16.5	24.7





#71

Anthracene

Concen: 11.26 ng/ul

RT: 17.99 min Scan# 2400

Delta R.T. 0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Instrument :

BNA_G

ClientSampleId :

F5B24DL

Tot Ion:178 Resp: 158676

Ion Ratio Lower Upper

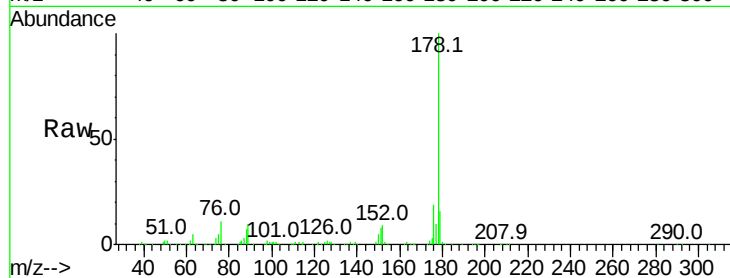
178 100

179 16.3 12.6 19.0

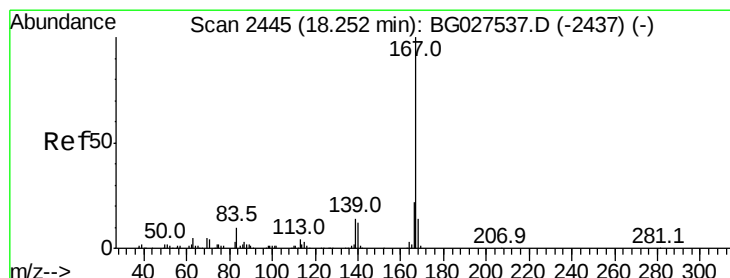
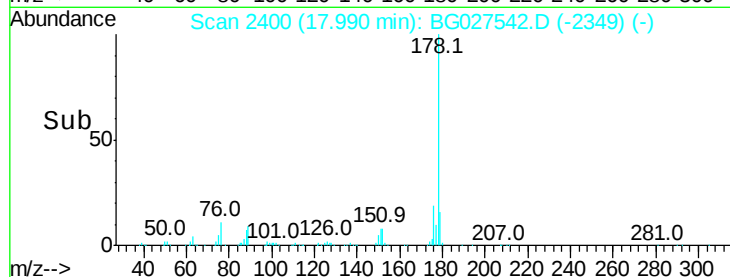
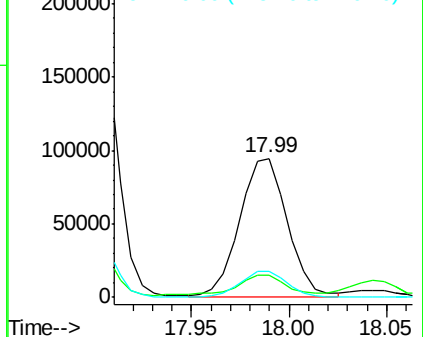
176 18.6 15.9 23.9

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



#72

Carbazole

Concen: 3.26 ng/ul

RT: 18.25 min Scan# 2445

Delta R.T. 0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

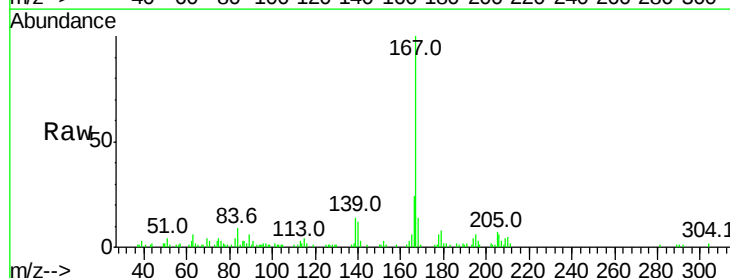
Tgt Ion:167 Resp: 39500

Ion Ratio Lower Upper

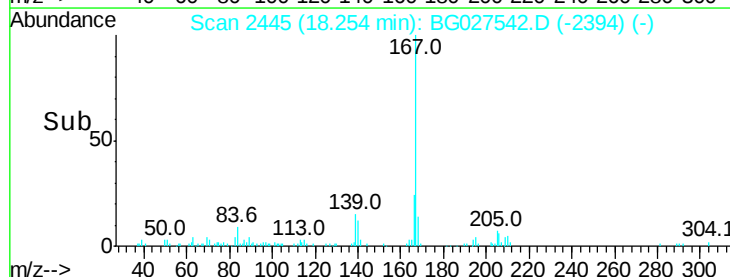
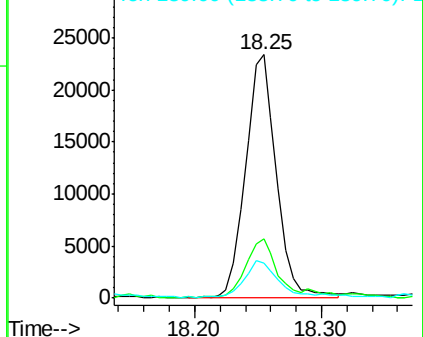
167 100

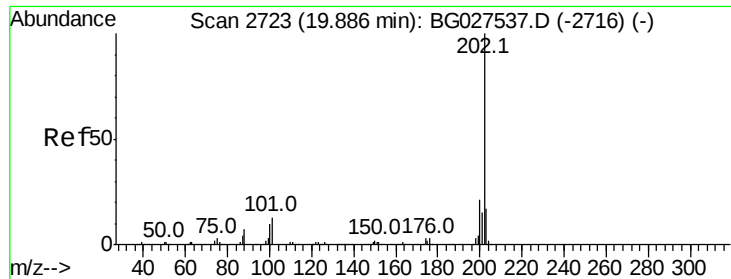
166 24.2 17.9 26.9

139 14.5 10.5 15.7



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





#74

Fluoranthene

Concen: 84.24 ng/ul

RT: 19.89 min Scan# 2724

Delta R.T. 0.01 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Instrument :

BNA_G

ClientSampleId :

F5B24DL

Tot Ion:202 Resp: 1313728

Ion Ratio Lower Upper

202 100

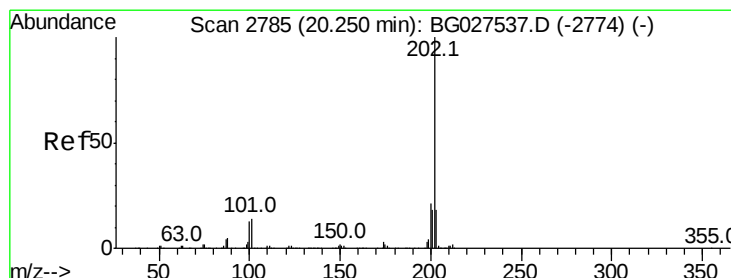
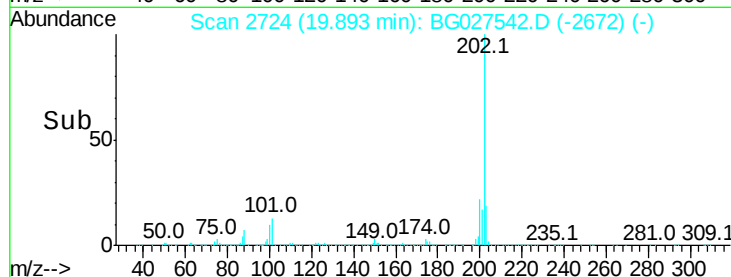
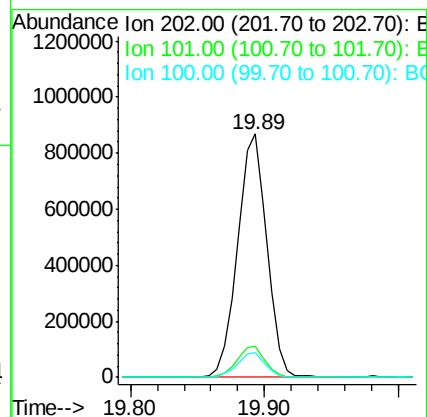
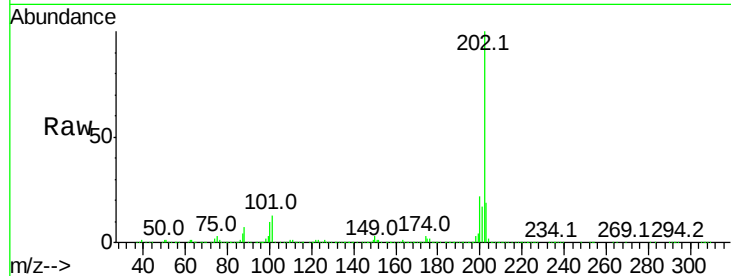
101 12.5 6.2 9.2#

100 10.0 5.2 7.8#

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#77

Pyrene

Concen: 58.30 ng/ul

RT: 20.25 min Scan# 2785

Delta R.T. 0.00 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

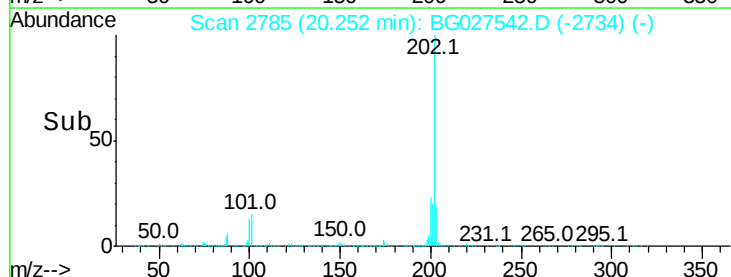
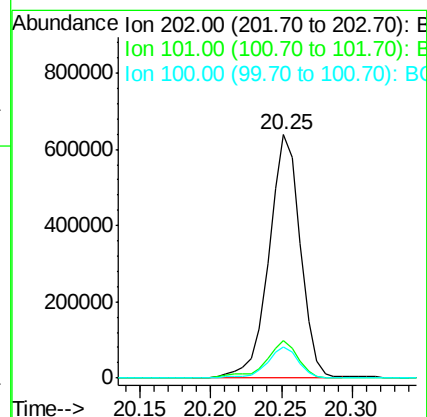
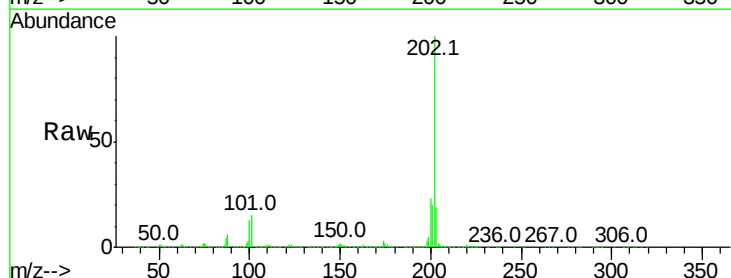
Tgt Ion:202 Resp: 996545

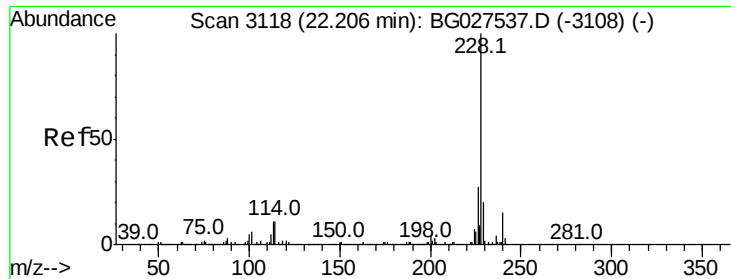
Ion Ratio Lower Upper

202 100

101 15.4 6.9 10.3#

100 12.9 6.6 10.0#





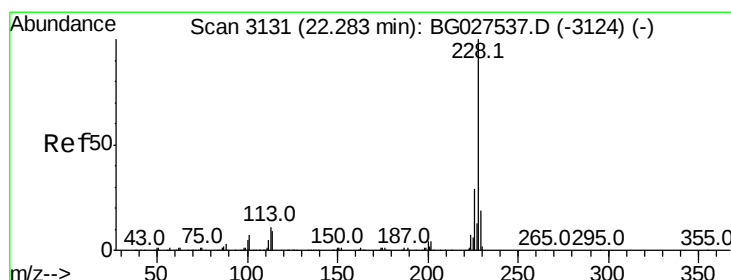
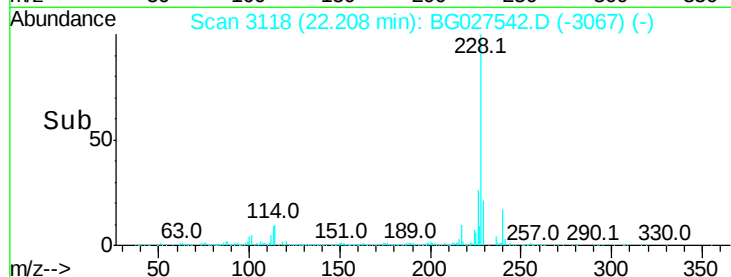
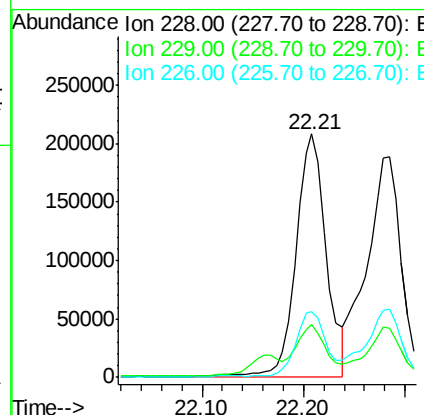
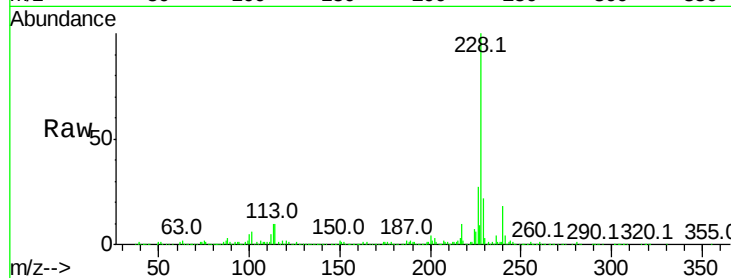
#80
Benzo(a)anthracene
Concen: 26.58 ng/ul
RT: 22.21 min Scan# 3118
Delta R.T. 0.00 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Instrument :
BNA_G
ClientSampleId :
F5B24DL

Tot Ion	Ratio	Lower	Upper
228	100		
229	21.7	16.3	24.5
226	26.8	21.9	32.9

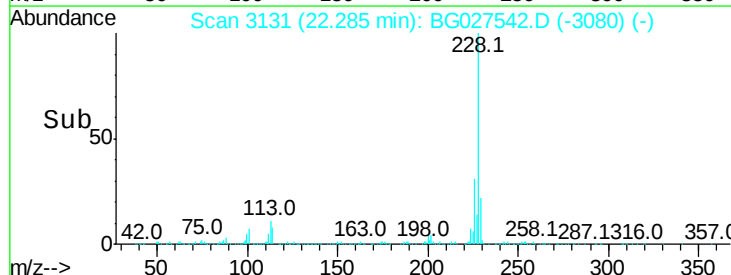
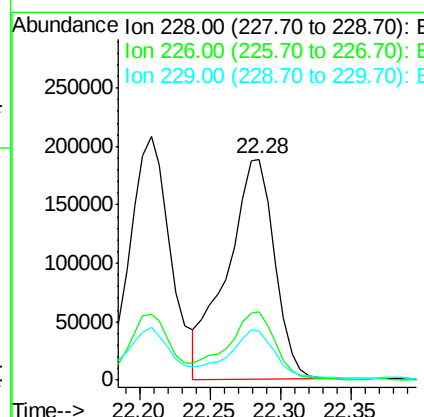
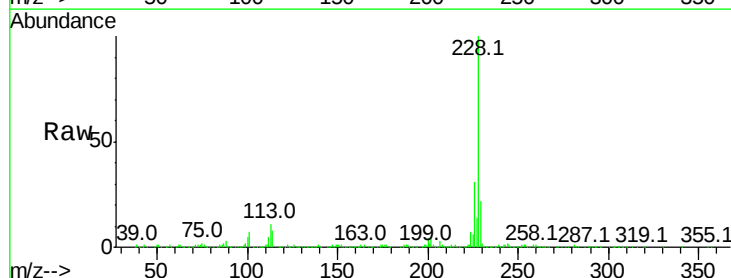
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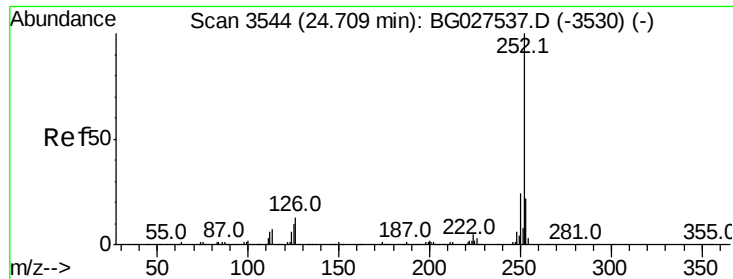
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#82
Chrysene
Concen: 30.33 ng/ul
RT: 22.28 min Scan# 3131
Delta R.T. 0.00 min
Lab File: BG027542.D
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Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.0	36.0
229	22.0	16.9	25.3





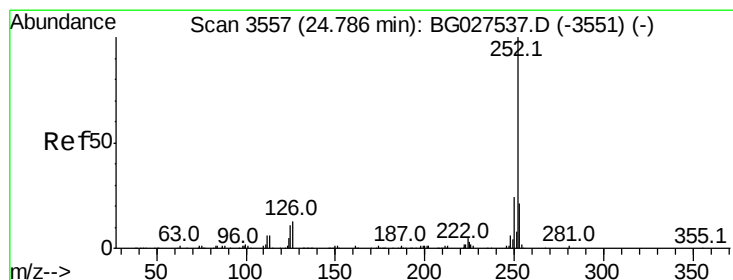
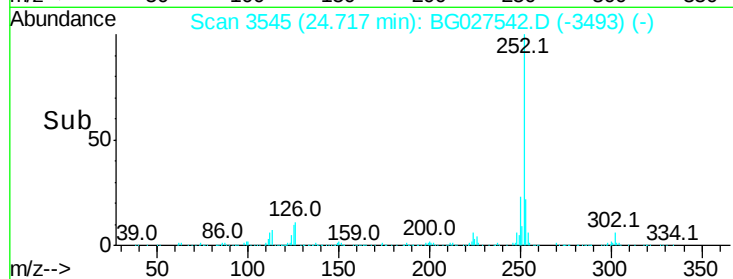
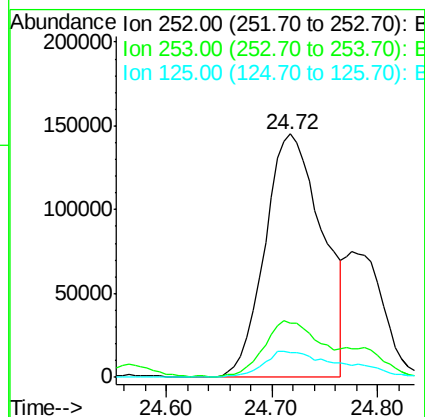
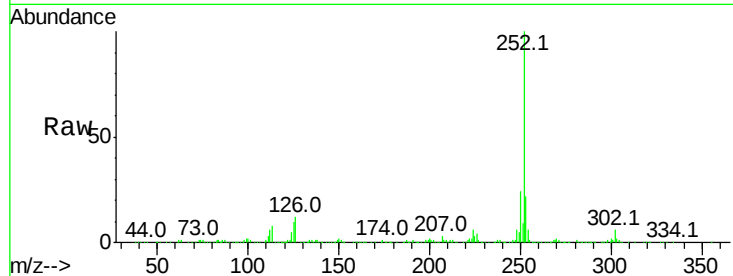
#85
Benzo(b)fluoranthene
Concen: 33.66 ng/ul
RT: 24.72 min Scan# 3545
Delta R.T. 0.01 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Instrument :
BNA_G
ClientSampleId :
F5B24DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.4	17.7	26.5
125	10.4	4.0	6.0

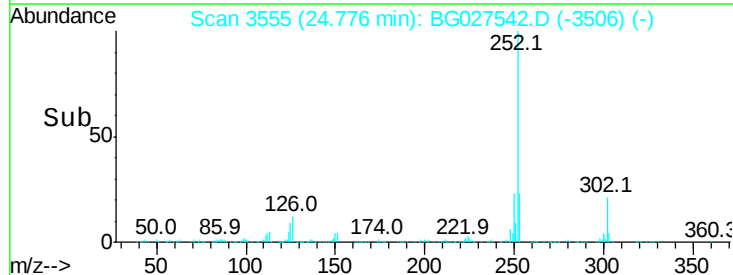
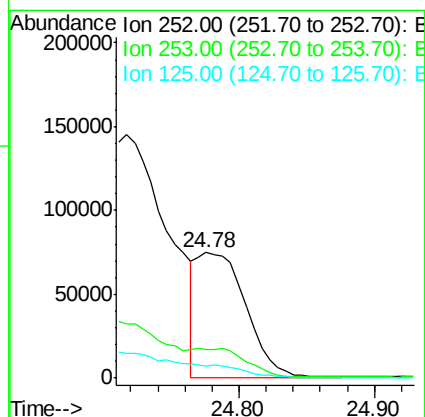
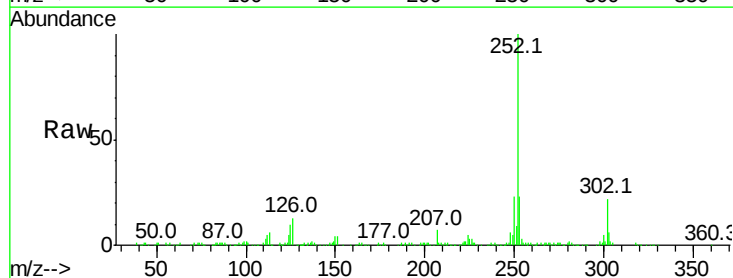
Manual Integrations
APPROVED

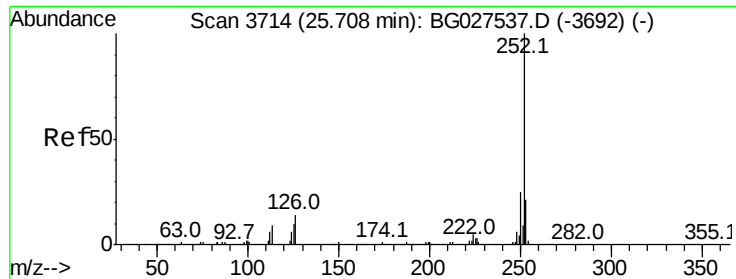
mohammad
6/20/2017 11:51:06 AM



#86
Benzo(k)fluoranthene
Concen: 12.23 ng/ul m
RT: 24.78 min Scan# 3555
Delta R.T. -0.01 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.2	18.5	27.7
125	9.8	4.1	6.1





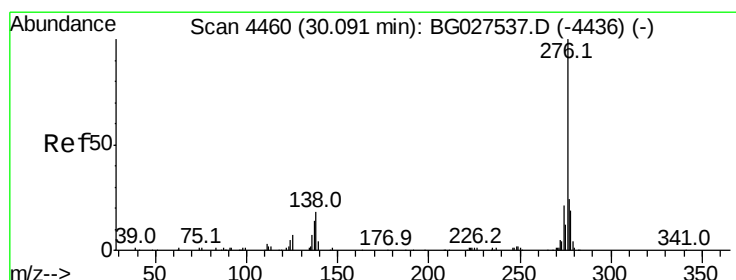
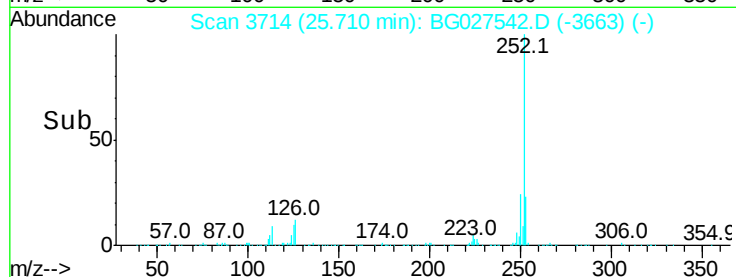
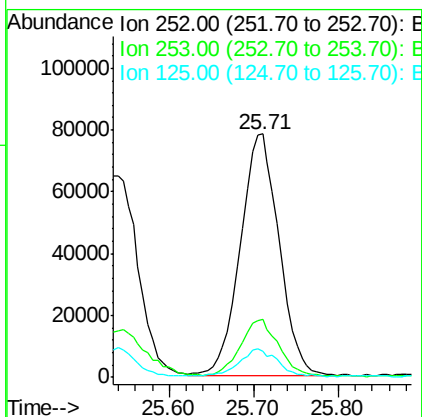
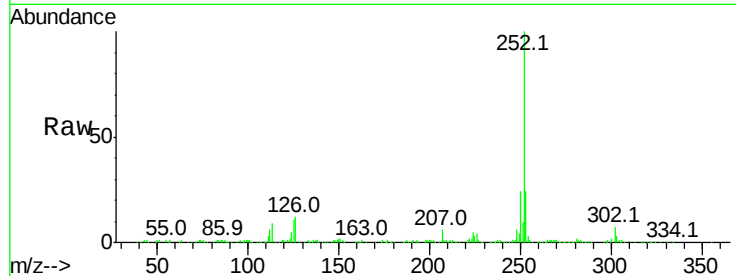
#88
Benzo(a)pyrene
Concen: 15.95 ng/ul
RT: 25.71 min Scan# 3714
Delta R.T. 0.00 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Instrument :
BNA_G
ClientSampled :
F5B24DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.9	17.8	26.6
125	10.6	5.4	8.0#

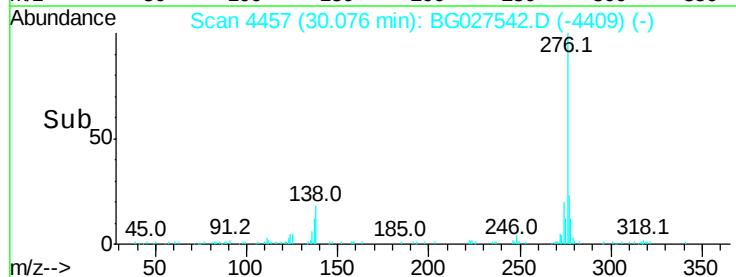
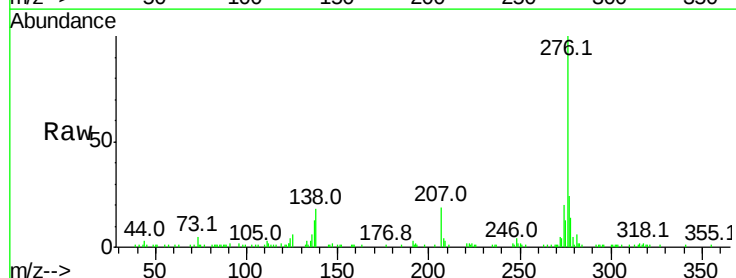
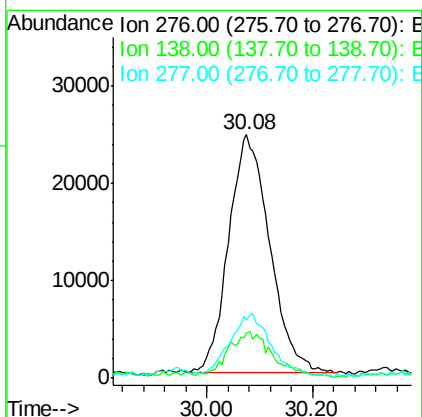
Manual Integrations
APPROVED

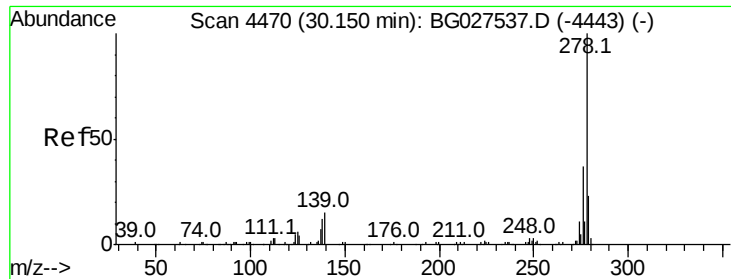
mohammad
6/20/2017 11:51:06 AM



#89
Indeno(1,2,3-cd)pyrene
Concen: 7.42 ng/ul
RT: 30.08 min Scan# 4457
Delta R.T. -0.02 min
Lab File: BG027542.D
Acq: 19 Jun 2017 23:36

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	18.3	8.2	12.4#
277	23.8	18.6	28.0





#90

Dibenzo(a,h)anthracene

Concen: 2.61 ng/ul m

RT: 30.12 min Scan# 4465

Delta R.T. -0.03 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Instrument :

BNA_G

ClientSampleId :

F5B24DL

Tot Ion:278 Resp: 39607

Ion Ratio Lower Upper

278 100

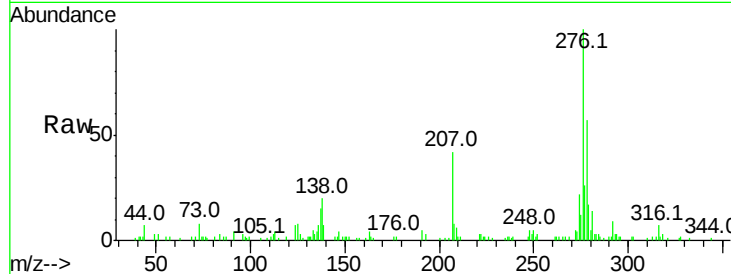
139 11.9 6.7 10.1#

279 30.1 20.9 31.3

Manual Integrations
APPROVED

mohammad

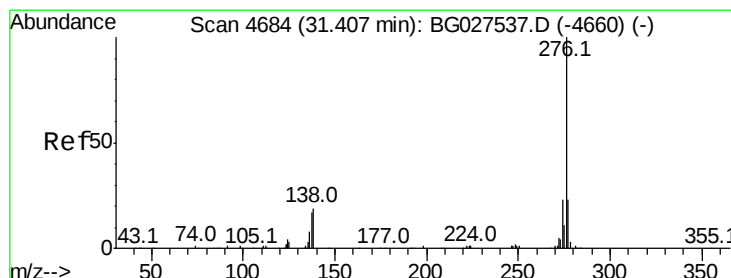
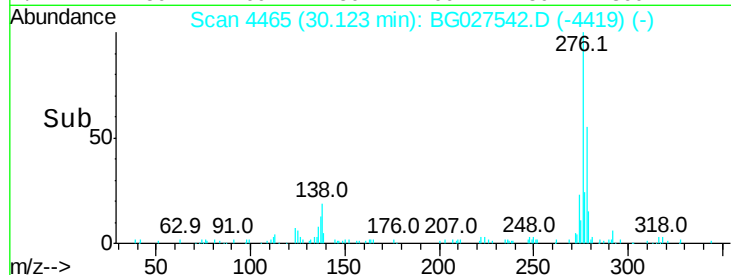
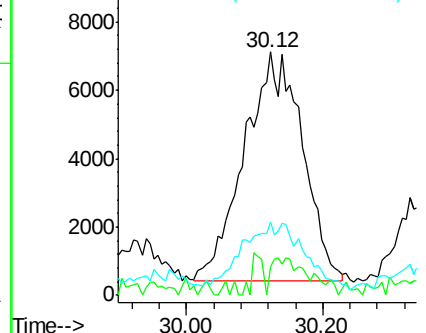
6/20/2017 11:51:06 AM



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.85 ng/ul

RT: 31.40 min Scan# 4682

Delta R.T. -0.01 min

Lab File: BG027542.D

Acq: 19 Jun 2017 23:36

Tgt Ion:276 Resp: 41336

Ion Ratio Lower Upper

276 100

138 16.9 8.6 12.8#

277 25.8 17.6 26.4

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

