

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080319\
 Data File : BG041942.D
 Acq On : 4 Aug 2019 14:24
 Operator : HP/JU
 Sample : K3850-02DL 10X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleID :
 BENP1DL

Manual Integrations
 APPROVED

mohammad
 8/6/2019 12:18:41 PM

Quant Time: Aug 05 03:07:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 05 01:19:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	83130	20.00	ng/ul	0.00
18) Naphthalene-d8	10.86	136	329074	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.69	164	216382	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.46	188	426392	20.00	ng/ul	0.00
77) Chrysene-d12	21.75	240	430883	20.00	ng/ul	0.02
85) Perylene-d12	25.03	264	467662	20.00	ng/ul	0.03

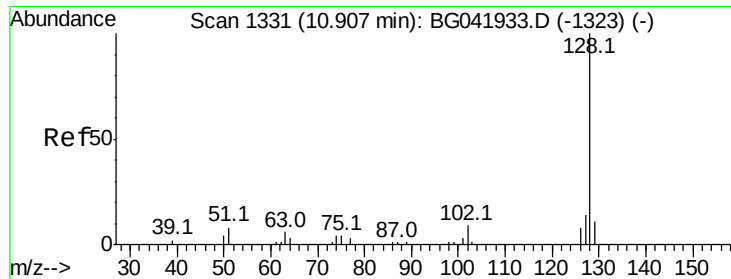
System Monitoring Compounds

3) 1,4-Dioxane-d8	3.43	96	403	0.21	ng/uL	0.00
5) Phenol-d5	7.19	99	14939	2.29	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.36	67	7676	2.10	ng/ul	0.00
9) 2-Chlorophenol-d4	7.56	132	12973	2.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.75	113	11405	2.08	ng/ul	0.00
19) Nitrobenzene-d5	9.21	128	6255	2.53	ng/ul	0.00
22) 2-Nitrophenol-d4	9.94	143	7041	2.45	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.48	165	14118	2.43	ng/ul	0.00
29) 4-Chloroaniline-d4	10.98	131	20325	3.15	ng/ul	0.00
43) Dimethylphthalate-d6	14.10	166	43533	2.59	ng/ul	0.00
46) Acenaphthylene-d8	14.39	160	55305	2.88	ng/ul	0.00
51) 4-Nitrophenol-d4	14.90	143	5223	1.85	ng/ul	0.03
57) Fluorene-d10	15.69	176	39572	2.65	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.82	200	1713m	0.63	ng/ul	0.02
70) Anthracene-d10	17.55	188	60151	2.94	ng/ul	0.00
78) Pyrene-d10	19.84	212	69267	2.88	ng/ul	0.00
89) Benzo(a)pyrene-d12	24.80	264	63694	2.61	ng/ul	0.03

Target Compounds

					Ovalue
28) Naphthalene	10.91	128	327513	19.468	ng/ul 99
34) 2-Methylnaphthalene	12.52	142	312548	23.374	ng/ul 99
40) 1,1'-Biphenyl	13.53	154	49784	3.164	ng/ul 98
49) Acenaphthene	14.76	153	439292	32.470	ng/ul 98
53) Dibenzofuran	15.09	168	73279	3.629	ng/ul 90
58) Fluorene	15.75	166	353165	21.715	ng/ul 98
69) Phenanthrene	17.50	178	3098645m	132.744	ng/ul
71) Anthracene	17.59	178	1065228	44.993	ng/ul 98
74) Carbazole	17.85	167	74770	3.813	ng/ul# 91
76) Fluoranthene	19.51	202	2473762	91.720	ng/ul# 95
79) Pyrene	19.88	202	3564041m	122.967	ng/ul
82) Benzo(a)anthracene	21.73	228	2411555	80.721	ng/ul# 87
83) Bis(2-ethylhexyl)phthalate	21.63	149	101326	6.510	ng/ul 97
84) Chrysene	21.80	228	2375196	85.182	ng/ul# 87
87) Benzo(b)fluoranthene	24.00	252	1793167	61.100	ng/ul 97
88) Benzo(k)fluoranthene	24.05	252	731757m	25.932	ng/ul
90) Benzo(a)pyrene	24.88	252	1782271	63.729	ng/ul 96
91) Indeno(1,2,3-cd)pyrene	28.79	276	534185	16.376	ng/ul 94
92) Dibenzo(a,h)anthracene	28.83	278	210490m	7.911	ng/ul
93) Benzo(g,h,i)perylene	29.95	276	509621	18.713	ng/ul 98

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



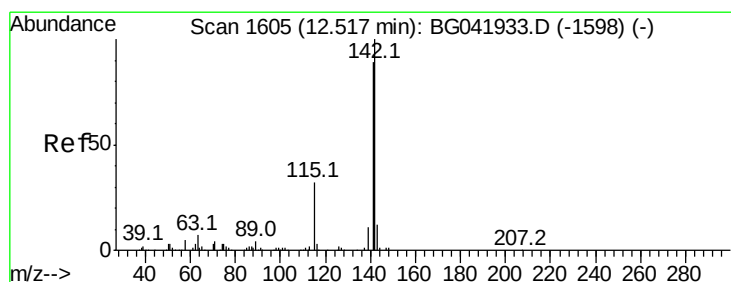
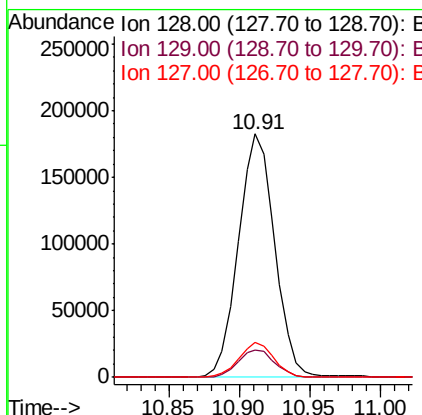
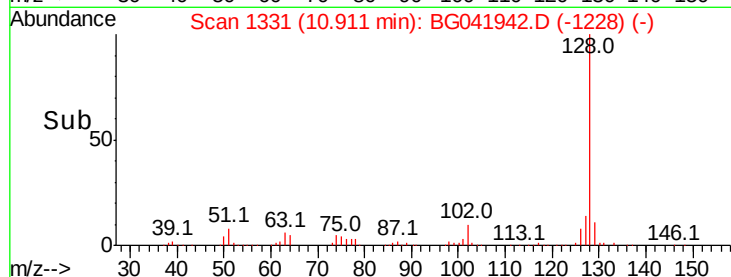
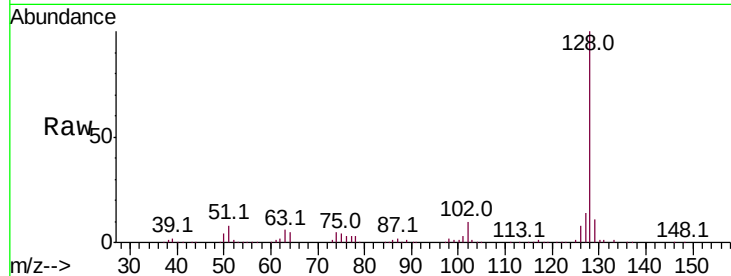
#28
Naphthalene
Concen: 19.468 ng/ul
RT: 10.91 min Scan# 1331
Delta R.T. 0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Instrument :
BNA_G
ClientSampleID :
BENP1DL

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.5	14.3
127	14.1	11.4	17.0

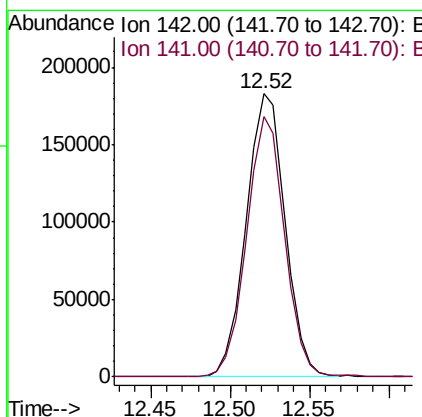
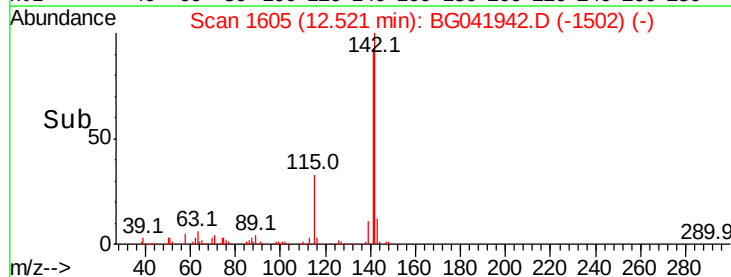
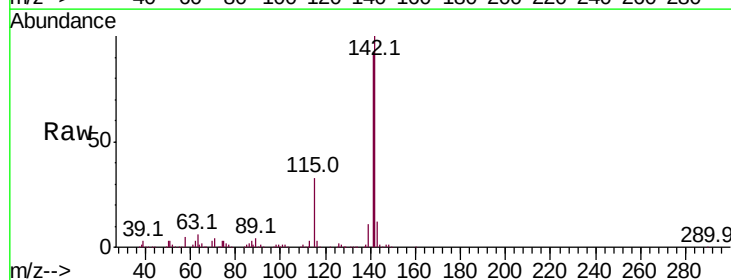
Manual Integrations
APPROVED

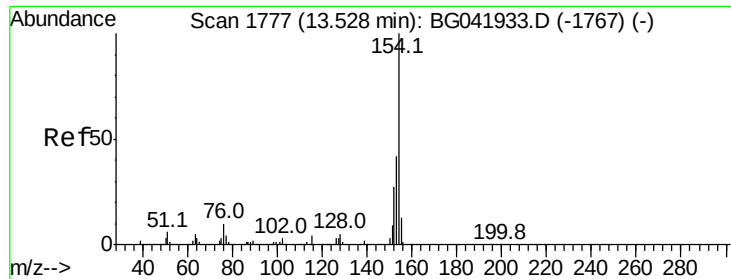
mohammad
8/6/2019 12:18:41 PM



#34
2-Methylnaphthalene
Concen: 23.374 ng/ul
RT: 12.52 min Scan# 1605
Delta R.T. 0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.2	72.9	109.3





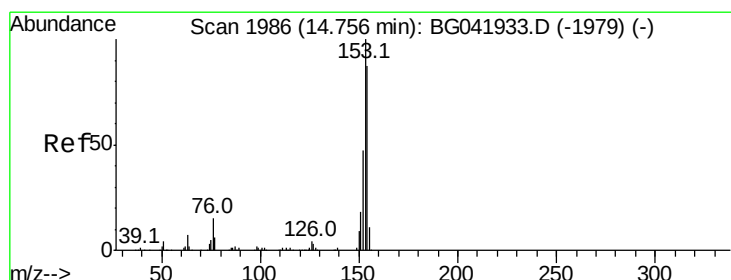
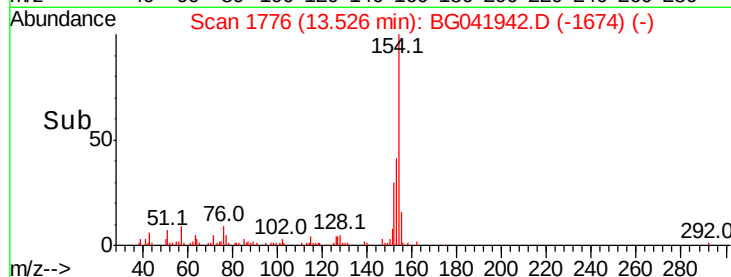
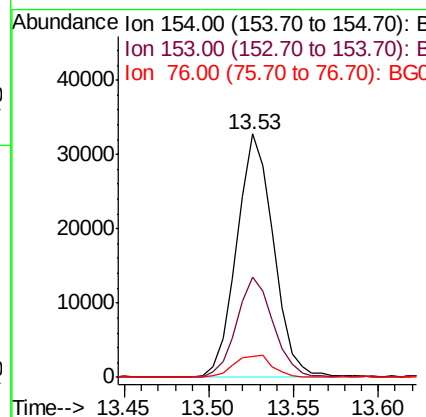
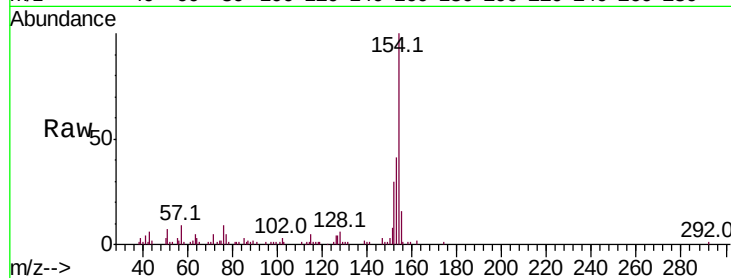
#40
1,1'-Biphenyl
Concen: 3.164 ng/ul
RT: 13.53 min Scan# 1776
Delta R.T. -0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Instrument :
BNA_G
ClientSampleId :
BENP1DL

Tot Ion:	154	Resp:	49784
Ion Ratio	Lower	Upper	
154	100		
153	41.4	32.6	48.8
76	8.7	8.6	13.0

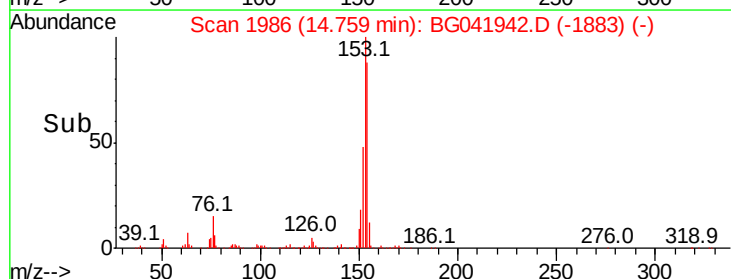
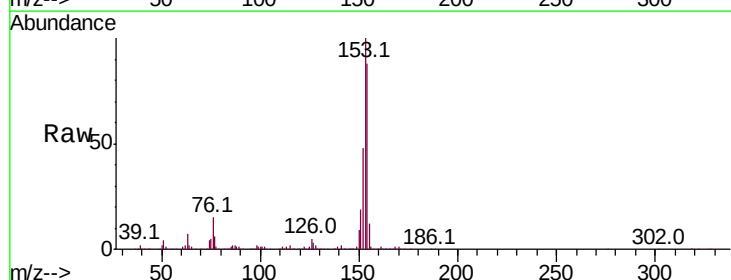
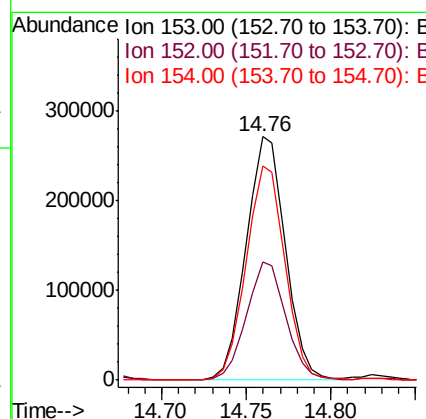
Manual Integrations
APPROVED

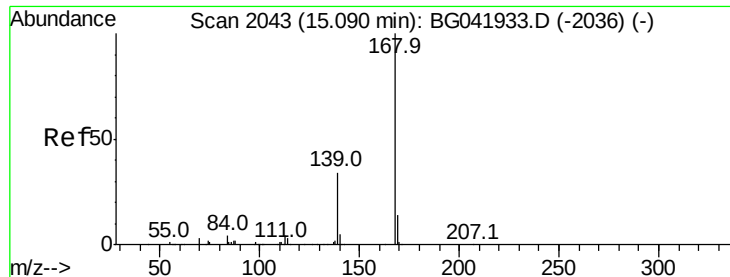
mohammad
8/6/2019 12:18:41 PM



#49
Acenaphthene
Concen: 32.470 ng/ul
RT: 14.76 min Scan# 1986
Delta R.T. 0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Tgt Ion:	153	Resp:	439292
Ion Ratio	Lower	Upper	
153	100		
152	48.3	37.8	56.8
154	88.2	69.4	104.2





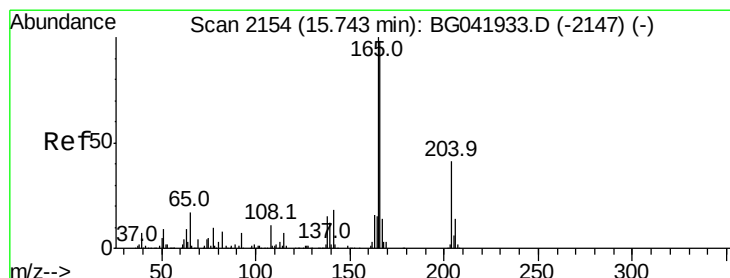
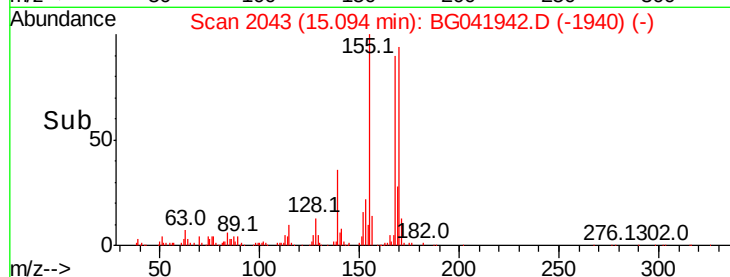
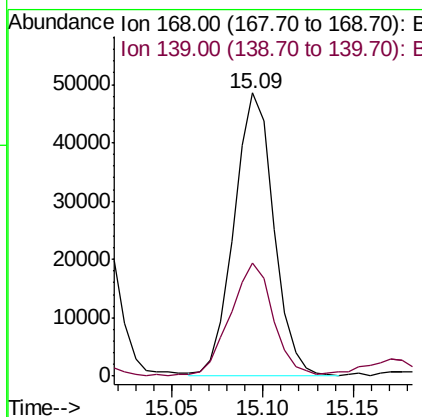
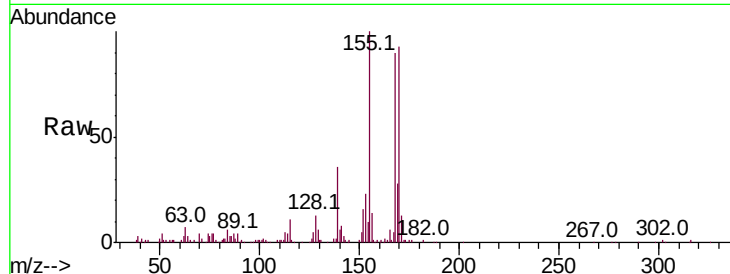
#53
Dibenzenofuran
Concen: 3.629 ng/ul
RT: 15.09 min Scan# 2043
Delta R.T. 0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Instrument :
BNA_G
ClientSampleId :
BENP1DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.0	27.3	40.9

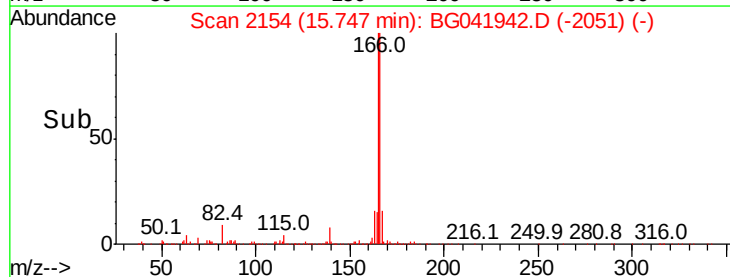
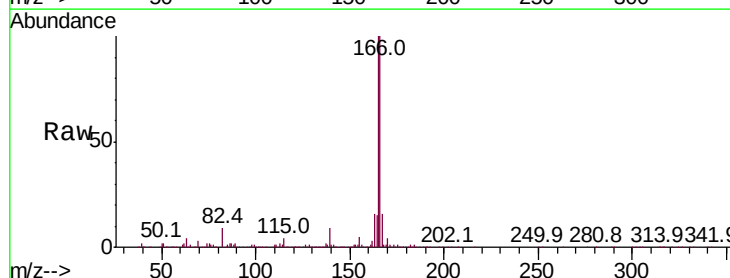
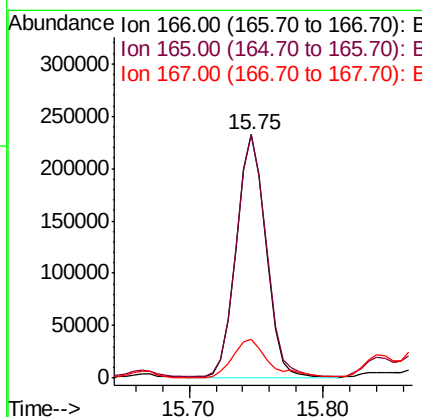
Manual Integrations
APPROVED

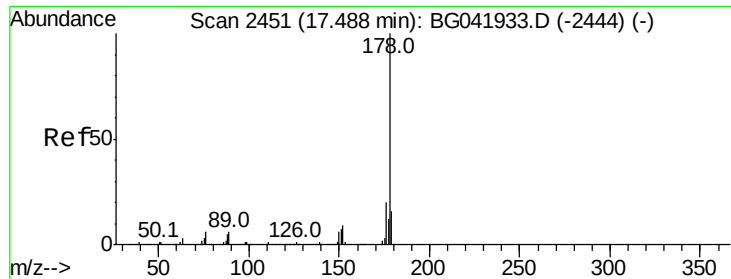
mohammad
8/6/2019 12:18:41 PM



#58
Fluorene
Concen: 21.715 ng/ul
RT: 15.75 min Scan# 2154
Delta R.T. 0.00 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	81.1	121.7
167	16.1	11.0	16.4





#69

Phenanthrene

Concen: 132.744 ng/ul m

RT: 17.50 min Scan# 2453

Delta R.T. 0.02 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

Instrument :

BNA_G

ClientSampleId :

BENP1DL

Tot Ion:178 Resp: 3098645

Ion Ratio Lower Upper

178 100

179 25.7 12.8 19.2#

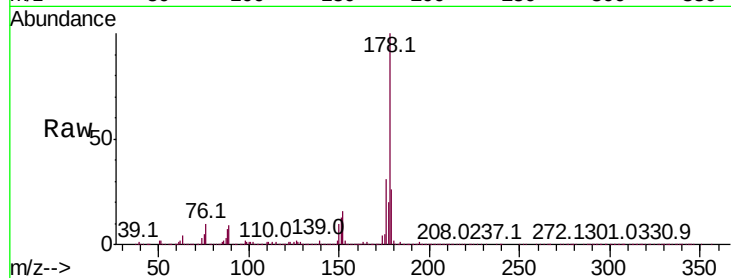
176 30.5 15.4 23.2#

Manual Integrations

APPROVED

mohammad

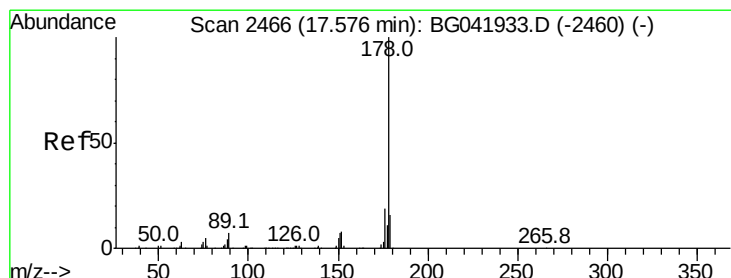
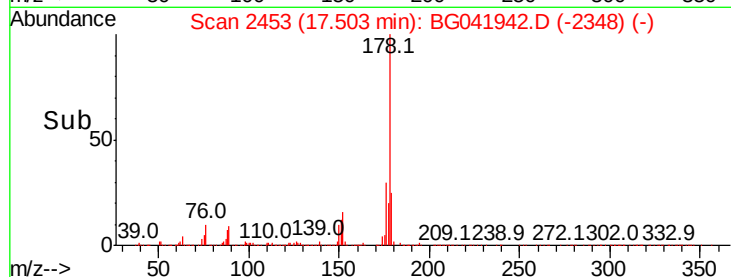
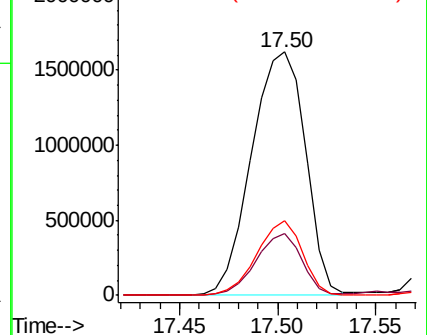
8/6/2019 12:18:41 PM



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



#71

Anthracene

Concen: 44.993 ng/ul

RT: 17.59 min Scan# 2467

Delta R.T. 0.01 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

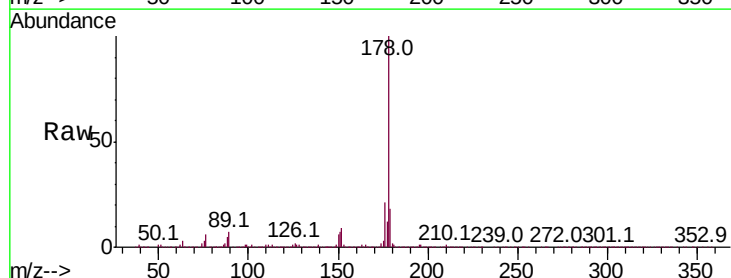
Tgt Ion:178 Resp: 1065228

Ion Ratio Lower Upper

178 100

179 17.5 13.4 20.0

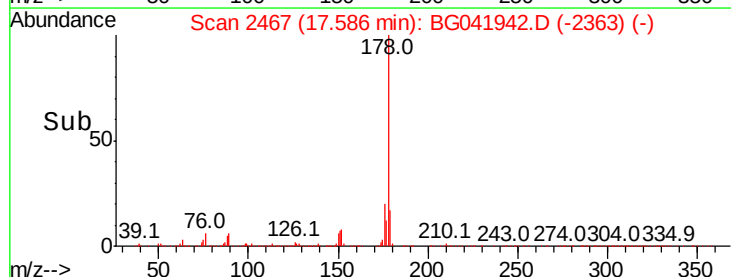
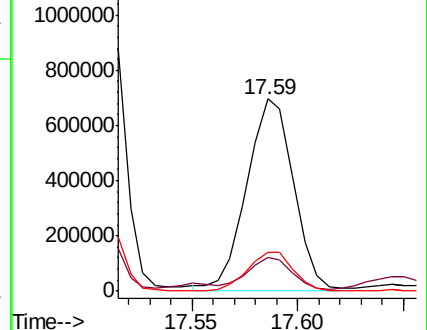
176 20.5 15.4 23.2

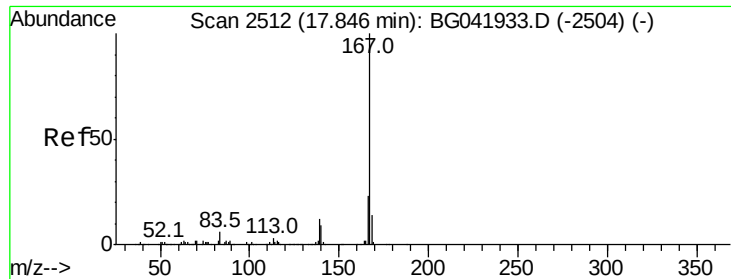


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





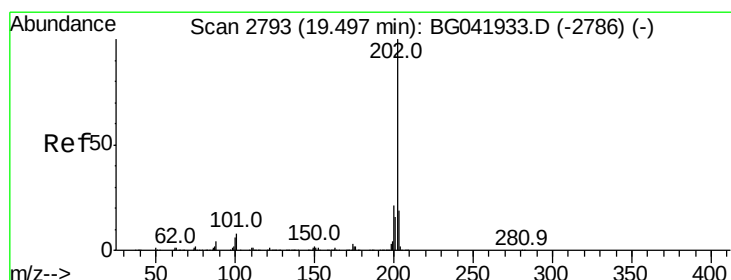
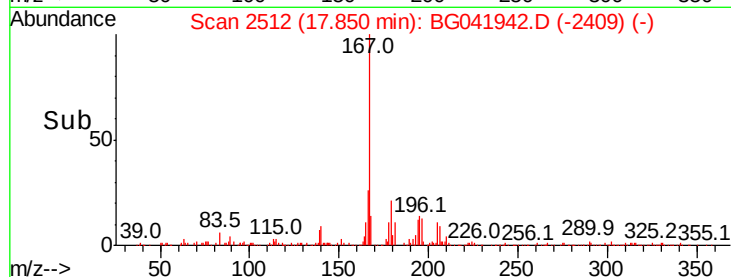
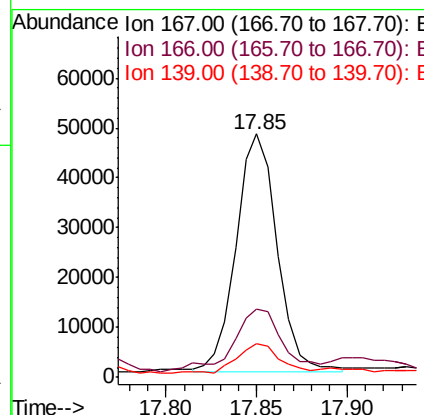
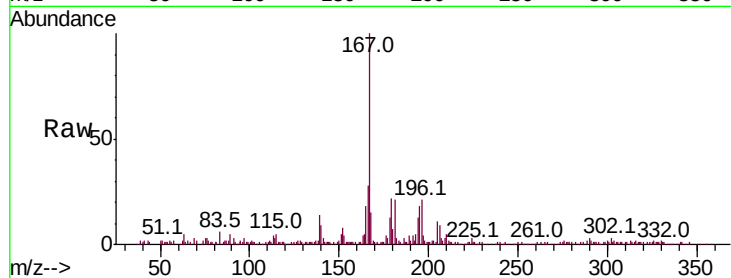
#74
 Carbazole
 Concen: 3.813 ng/ul
 RT: 17.85 min Scan# 2512
 Delta R.T. 0.00 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Instrument :
 BNA_G
 ClientSampleId :
 BENP1DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	28.1	18.2	27.4#
139	13.7	9.6	14.4

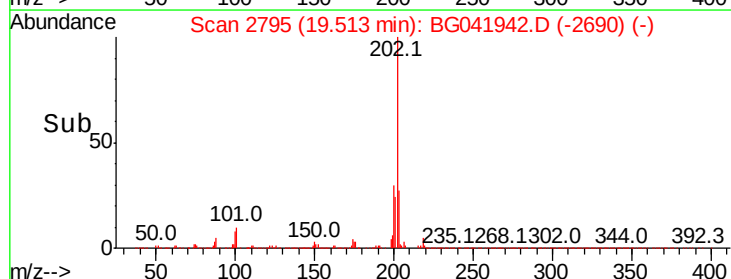
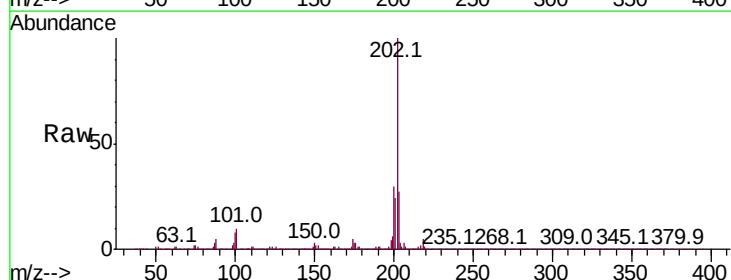
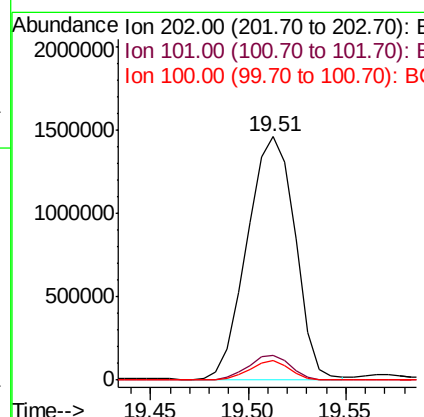
Manual Integrations
 APPROVED

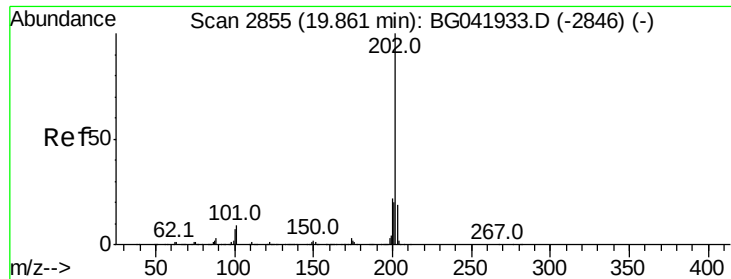
mohammad
 8/6/2019 12:18:41 PM



#76
 Fluoranthene
 Concen: 91.720 ng/ul
 RT: 19.51 min Scan# 2795
 Delta R.T. 0.02 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	6.7	10.1#
100	8.1	5.3	7.9#





#79

Pvrene

Concen: 122.967 ng/ul m

RT: 19.88 min Scan# 2857

Delta R.T. 0.02 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

Instrument :

BNA_G

ClientSampleId :

BENP1DL

Tot Ion:202 Resp: 3564041

Ion Ratio Lower Upper

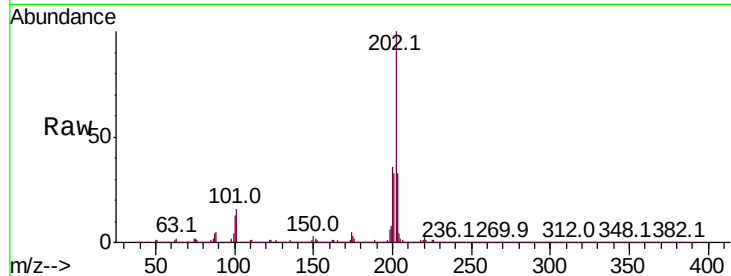
202 100

101 15.6 7.6 11.4#

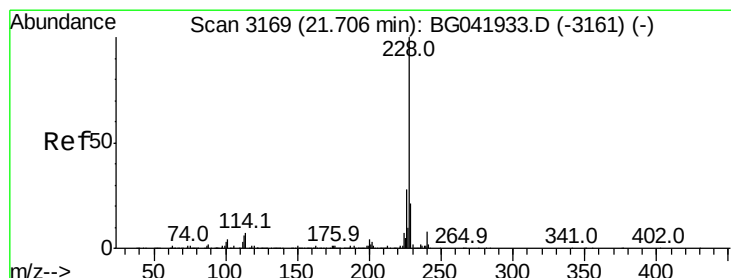
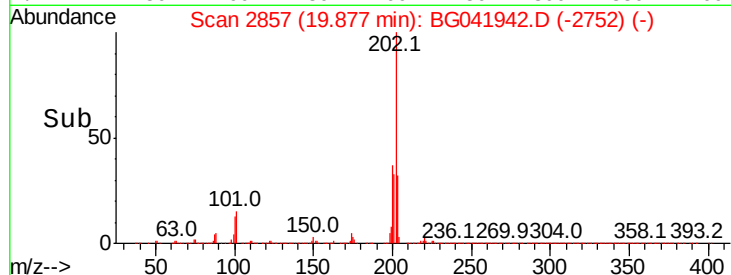
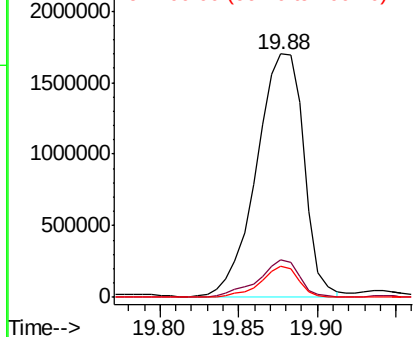
100 12.7 6.5 9.7#

Manual Integrations
APPROVED

mohammad
8/6/2019 12:18:41 PM



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



#82

Benzo(a)anthracene

Concen: 80.721 ng/ul

RT: 21.73 min Scan# 3172

Delta R.T. 0.02 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

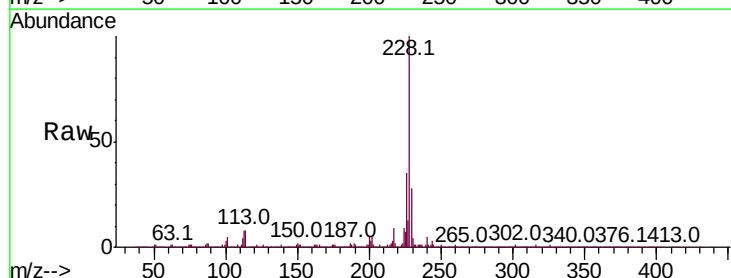
Tgt Ion:228 Resp: 2411555

Ion Ratio Lower Upper

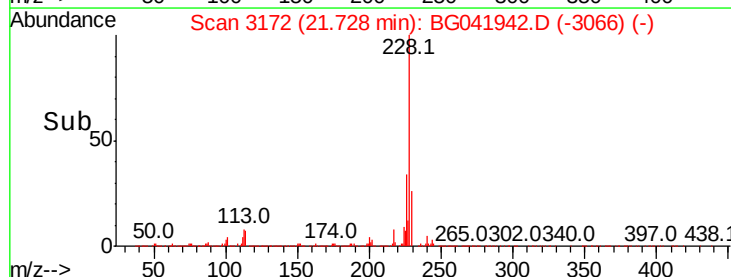
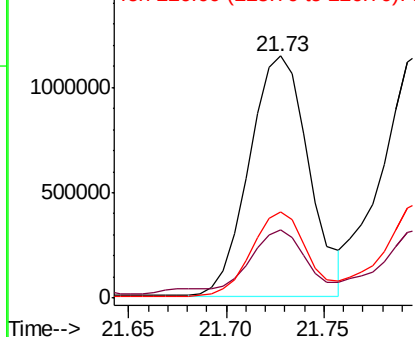
228 100

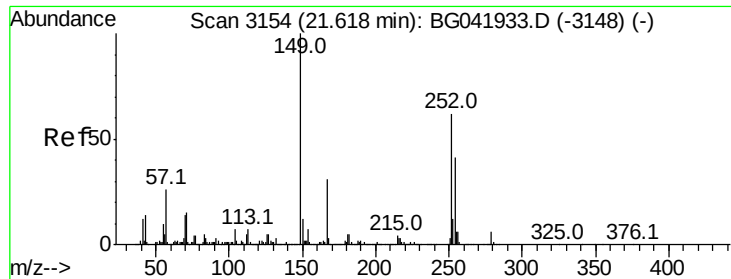
229 28.2 17.0 25.6#

226 35.4 23.3 34.9#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E





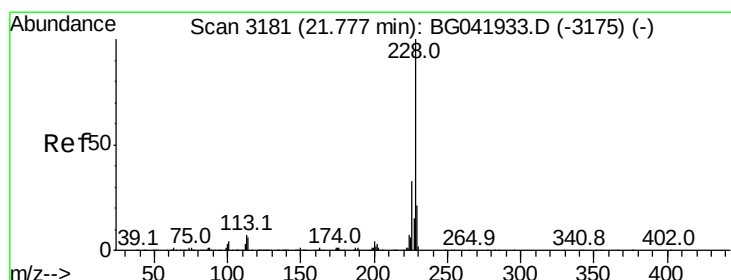
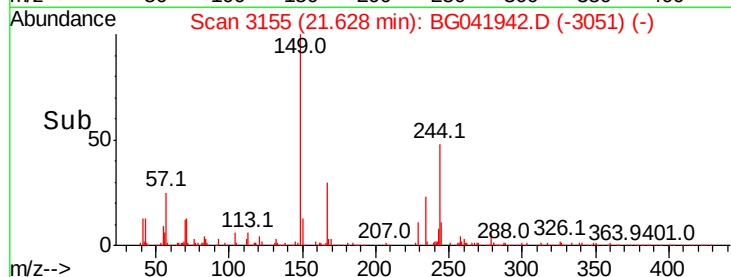
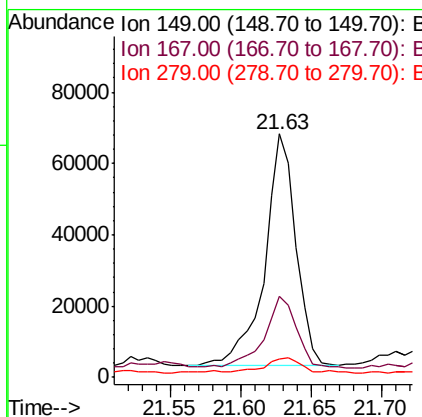
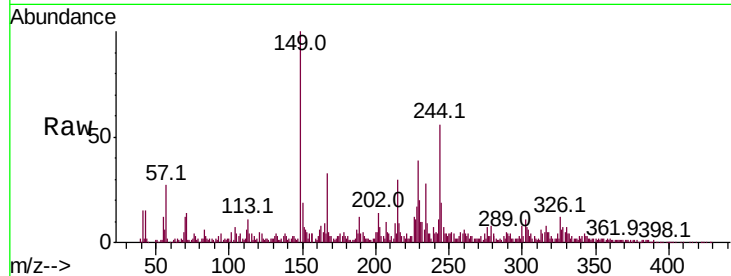
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 6.510 ng/ul
 RT: 21.63 min Scan# 3155
 Delta R.T. 0.01 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Instrument :
 BNA_G
 ClientSampleId :
 BENP1DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	33.2	25.0	37.4
279	7.5	5.2	7.8

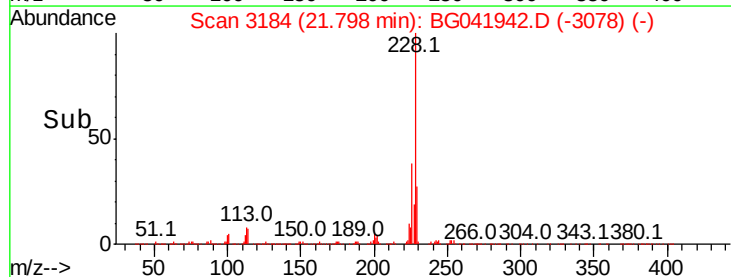
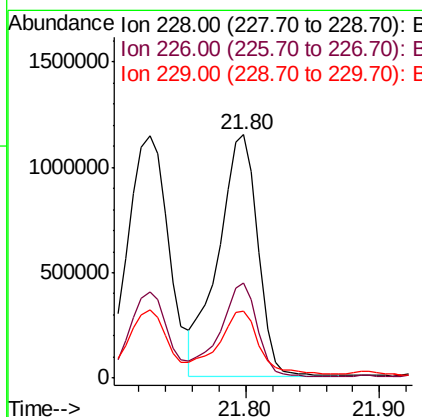
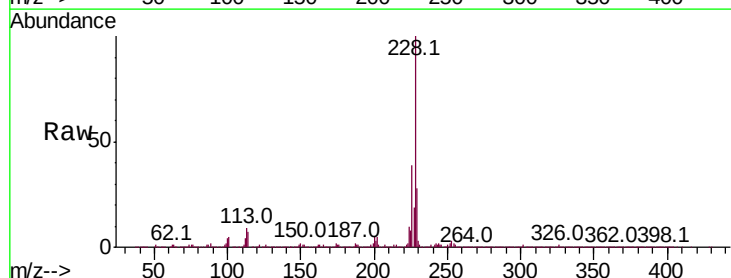
Manual Integrations
 APPROVED

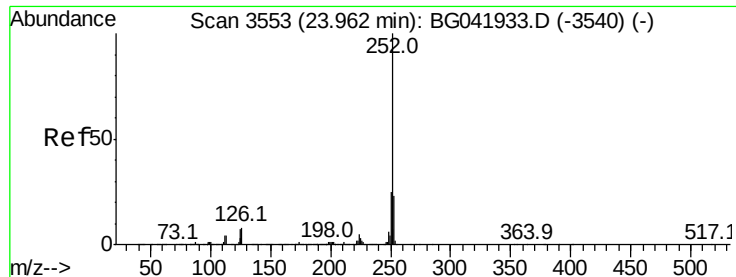
mohammad
 8/6/2019 12:18:41 PM



#84
 Chrysene
 Concen: 85.182 ng/ul
 RT: 21.80 min Scan# 3184
 Delta R.T. 0.02 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.8	25.7	38.5#
229	27.7	16.6	24.8#





#87

Benzo(b)fluoranthene

Concen: 61.100 ng/ul

RT: 24.00 min Scan# 3558

Delta R.T. 0.03 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

Instrument :

BNA_G

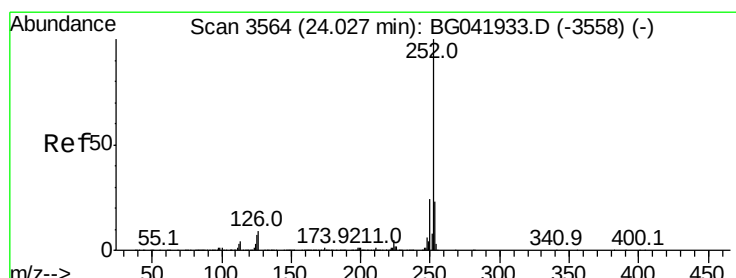
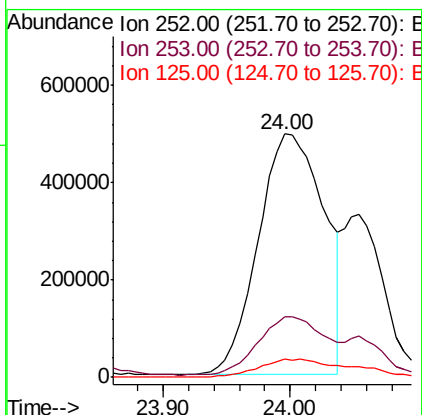
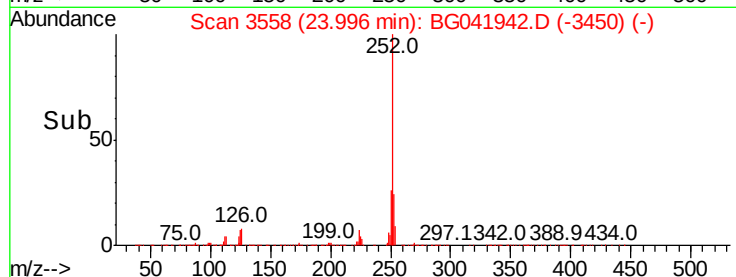
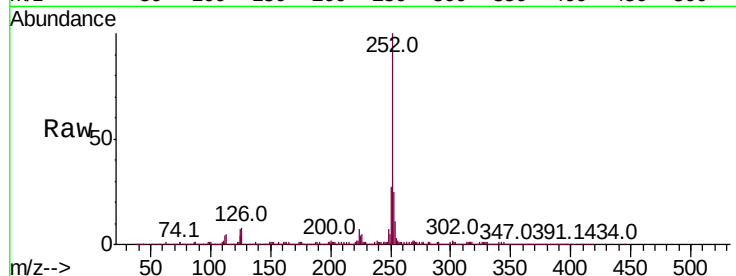
ClientSampleId :

BENP1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.4	27.6
125	7.3	5.8	8.8

Manual Integrations
APPROVED

mohammad
8/6/2019 12:18:41 PM



#88

Benzo(k)fluoranthene

Concen: 25.932 ng/ul m

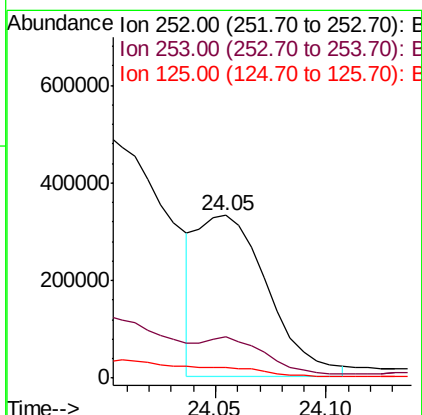
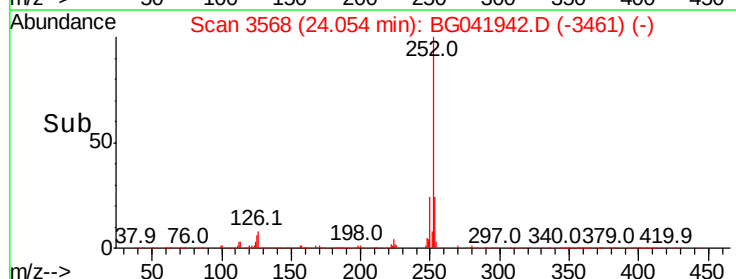
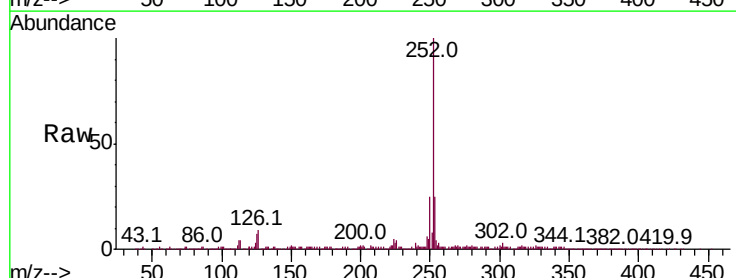
RT: 24.05 min Scan# 3568

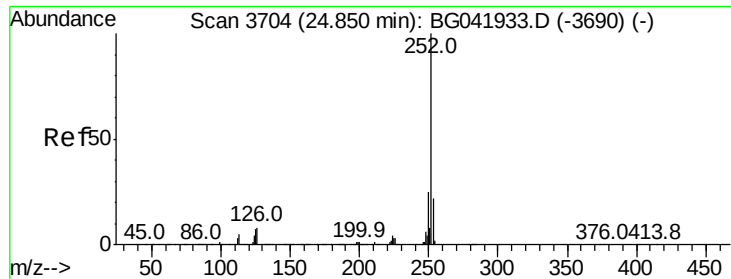
Delta R.T. 0.03 min

Lab File: BG041942.D

Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.3	27.5
125	6.7	5.5	8.3





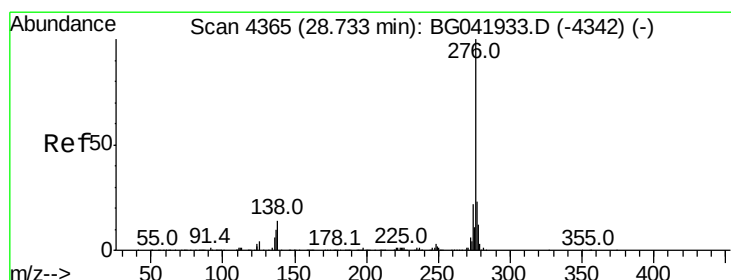
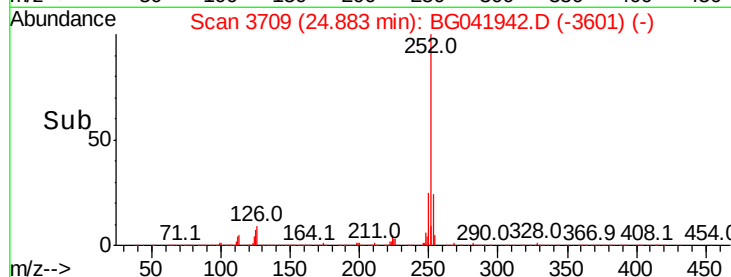
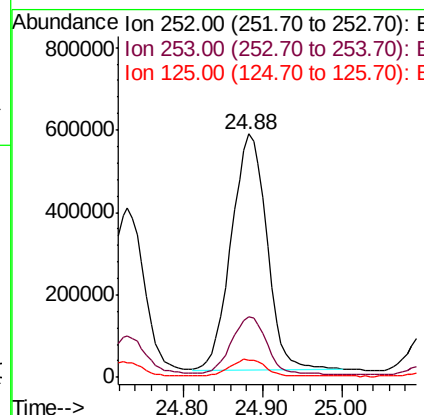
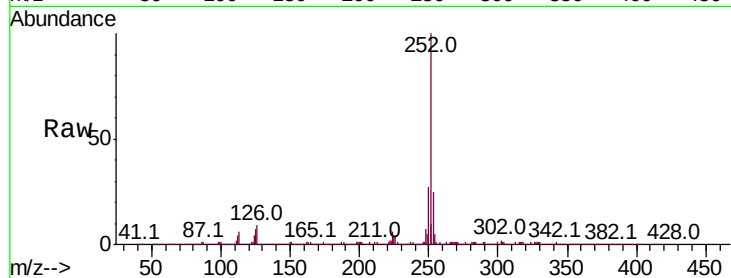
#90
Benzo(a)pyrene
Concen: 63.729 ng/ul
RT: 24.88 min Scan# 3709
Delta R.T. 0.03 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Instrument :
BNA_G
ClientSampleId :
BENP1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.3	27.5
125	7.2	6.5	9.7

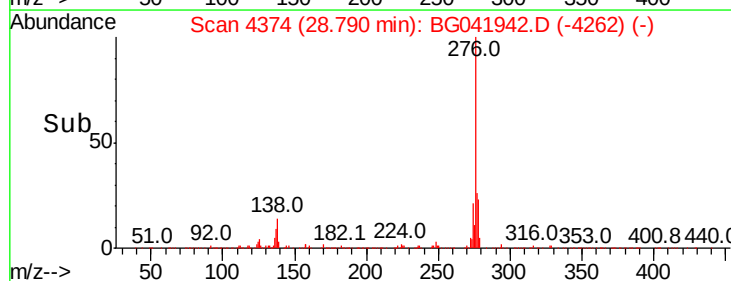
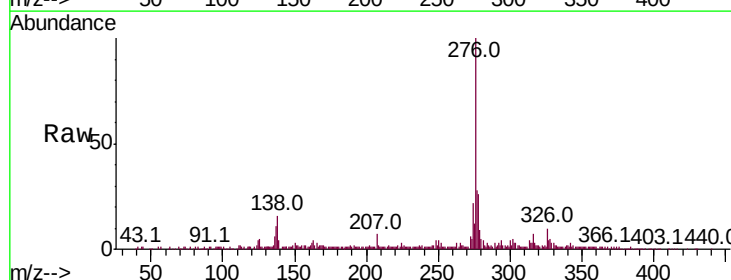
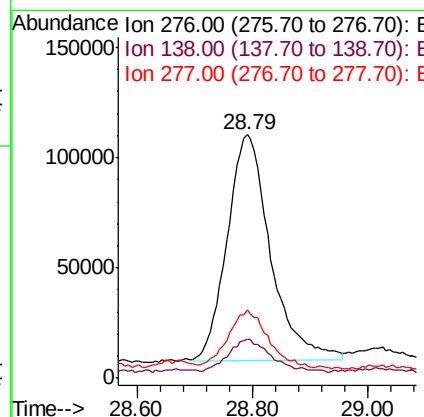
Manual Integrations
APPROVED

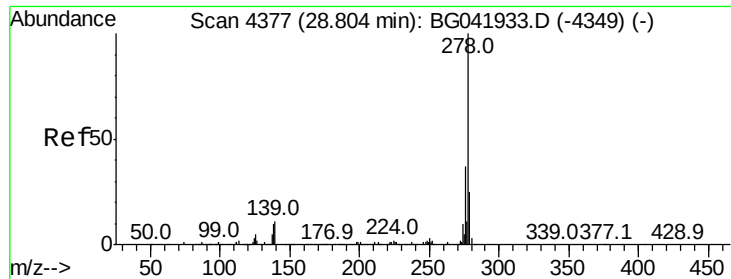
mohammad
8/6/2019 12:18:41 PM



#91
Indeno(1,2,3-cd)pyrene
Concen: 16.376 ng/ul
RT: 28.79 min Scan# 4374
Delta R.T. 0.06 min
Lab File: BG041942.D
Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.8	12.0	18.0
277	27.8	19.2	28.8





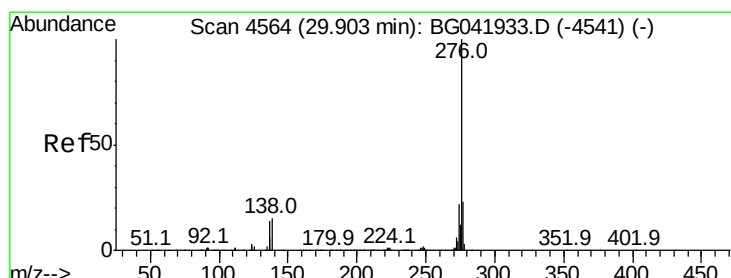
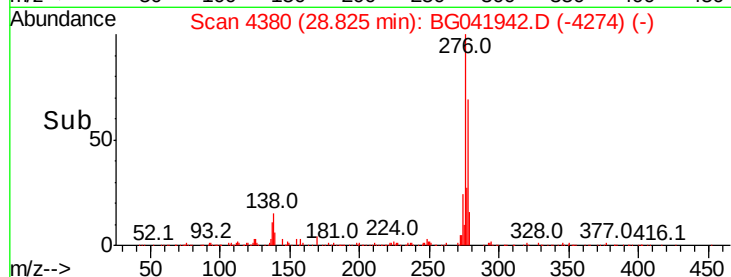
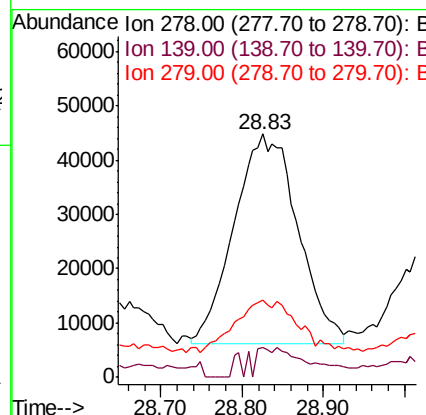
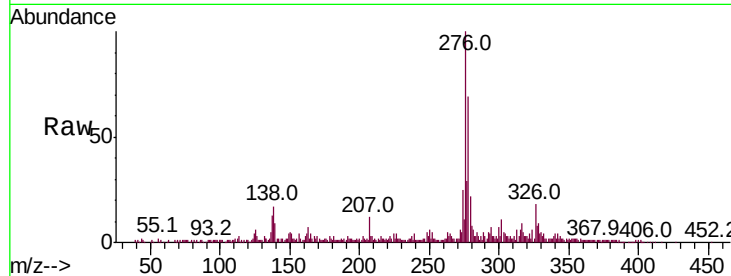
#92
 Dibenzo(a,h)anthracene
 Concen: 7.911 ng/ul m
 RT: 28.83 min Scan# 4380
 Delta R.T. 0.02 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Instrument :
 BNA_G
 ClientSampled :
 BENP1DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	12.4	9.4	14.0
279	31.9	19.2	28.8#

Manual Integrations
 APPROVED

mohammad
 8/6/2019 12:18:41 PM



#93
 Benzo(g,h,i)perylene
 Concen: 18.713 ng/ul
 RT: 29.95 min Scan# 4572
 Delta R.T. 0.05 min
 Lab File: BG041942.D
 Acq: 4 Aug 2019 14:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.6	12.6	18.8
277	24.8	19.2	28.8

