

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101619\
 Data File : BM023218.D
 Acq On : 17 Oct 2019 12:50
 Operator : JU
 Sample : K5262-21
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BFBB1

Manual Integrations
 APPROVED

mohammad
 10/18/2019 8:28:08 AM

Quant Time: Oct 17 16:12:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Oct 17 12:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	416081	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	1561173	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.31	164	922368	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.06	188	1806310	20.00	ng/ul	0.01
78) Chrysene-d12	21.28	240	1766998	20.00	ng/ul	0.04
86) Perylene-d12	23.54	264	2580145m	20.00	ng/ul	0.09

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.18	96	31395	3.32	ng/uL	0.00
5) Phenol-d5	6.84	99	692882	19.12	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	382646	18.66	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	556454	20.06	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	535059	18.38	ng/ul	0.00
19) Nitrobenzene-d5	8.81	128	244023	23.10	ng/ul	0.00
22) 2-Nitrophenol-d4	9.53	143	265463	26.40	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.07	165	556533	21.76	ng/ul	0.00
29) 4-Chloroaniline-d4	10.58	131	154786	4.97	ng/ul	0.00
44) Dimethylphthalate-d6	13.73	166	1575274	22.29	ng/ul	0.00
47) Acenaphthylene-d8	14.00	160	1887655	22.77	ng/ul	0.00
52) 4-Nitrophenol-d4	14.51	143	199008	17.39	ng/ul	0.01
58) Fluorene-d10	15.31	176	1368431	22.72	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.43	200	41001	5.73	ng/ul	0.02
71) Anthracene-d10	17.16	188	2044844	23.48	ng/ul	0.01
79) Pyrene-d10	19.47	212	2277743	26.62	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.40	264	2941382	22.49	ng/ul	0.09

Target Compounds

					Ovalue	
6) Phenol	6.86	94	205818	5.507	ng/ul	99
11) 2-Methylphenol	8.11	108	43231	1.509	ng/ul	93
16) 4-Methylphenol	8.43	108	125594	4.032	ng/ul	96
24) 2,4-Dimethylphenol	9.67	107	107661m	3.499	ng/ul	
28) Naphthalene	10.50	128	3619009	44.850	ng/ul	98
34) 2-Methylnaphthalene	12.12	142	1038870	17.302	ng/ul	99
41) 1,1'-Biphenyl	13.14	154	323072	4.603	ng/ul	98
45) Dimethylphthalate	13.77	163	498739	7.049	ng/ul	99
48) Acenaphthylene	14.03	152	13539560	159.732	ng/ul	97
50) Acenaphthene	14.37	153	2578366	43.683	ng/ul	100
54) Dibenzofuran	14.71	168	3251909	38.809	ng/ul	100
59) Fluorene	15.36	166	3969077	57.734	ng/ul	99
61) 4-Nitroaniline	15.36	138	50492m	3.506	ng/ul	
70) Phenanthrene	17.10	178	22612945m	223.070	ng/ul	
72) Anthracene	17.20	178	14595586	139.333	ng/ul#	84
75) Carbazole	17.46	167	6780248	72.453	ng/ul	99
77) Fluoranthene	19.12	202	27235943m	225.912	ng/ul	
80) Pyrene	19.49	202	27591095m	249.253	ng/ul	
83) Benzo(a)anthracene	21.24	228	25207233m	210.539	ng/ul	
85) Chrysene	21.30	228	21614878m	194.429	ng/ul	
88) Benzo(b)fluoranthene	22.85	252	28365924m	181.326	ng/ul	
89) Benzo(k)fluoranthene	22.89	252	23190607m	154.386	ng/ul	
91) Benzo(a)pyrene	23.44	252	34502009m	229.883	ng/ul	

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101619\
Data File : BM023218.D
Acq On : 17 Oct 2019 12:50
Operator : JU
Sample : K5262-21
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BFBB1

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM

Quant Time: Oct 17 16:12:00 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Oct 17 12:33:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	25.87	276	41273679m	231.164	ng/ul	
93) Dibenzo(a,h)anthracene	25.86	278	12822937m	85.894	ng/ul	
94) Benzo(g,h,i)perylene	26.59	276	38385040m	261.115	ng/ul	

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

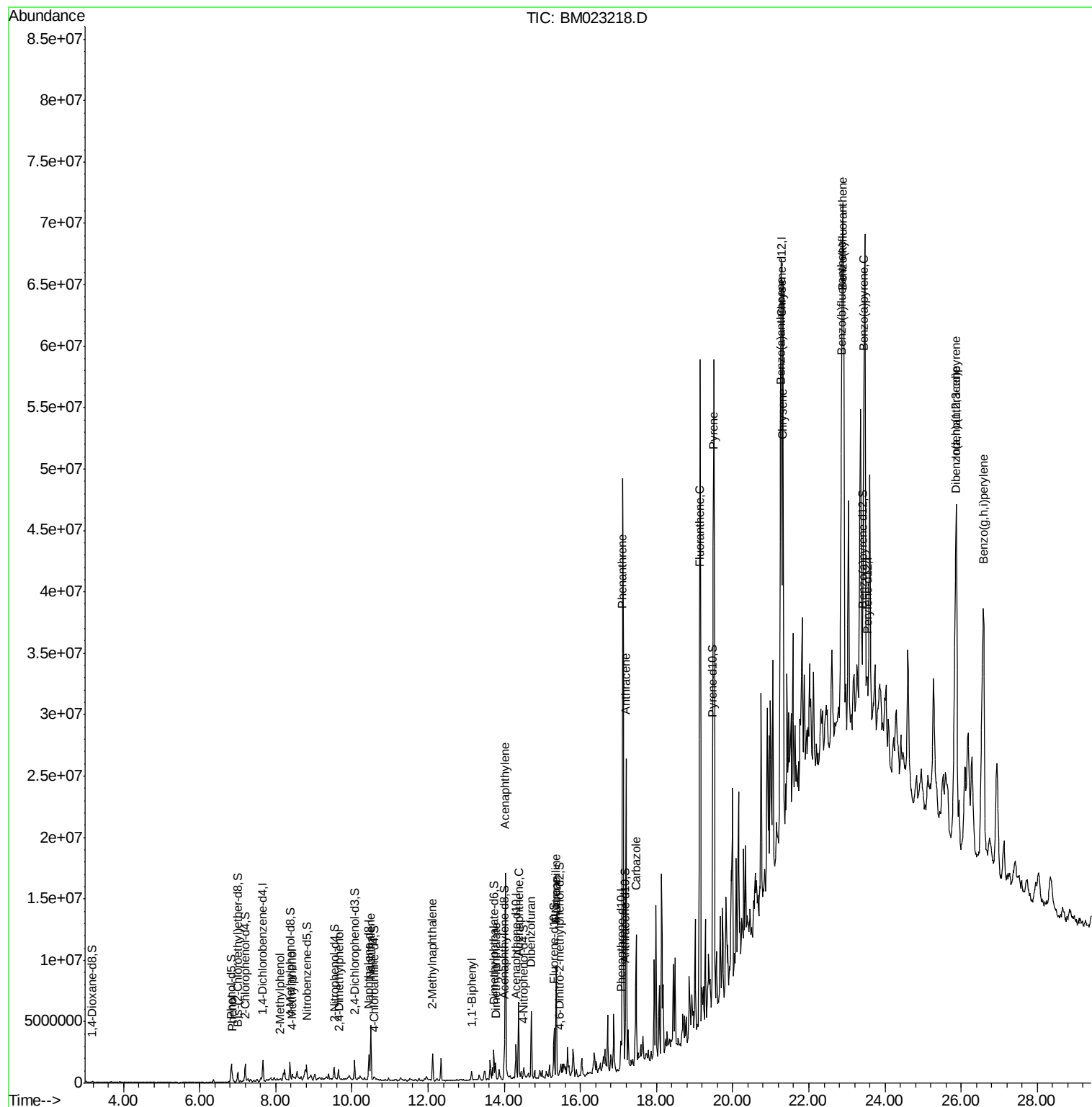
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101619\
Data File : BM023218.D
Acq On : 17 Oct 2019 12:50
Operator : JU
Sample : K5262-21
Misc :
ALS Vial : 25 Sample Multiplier: 1

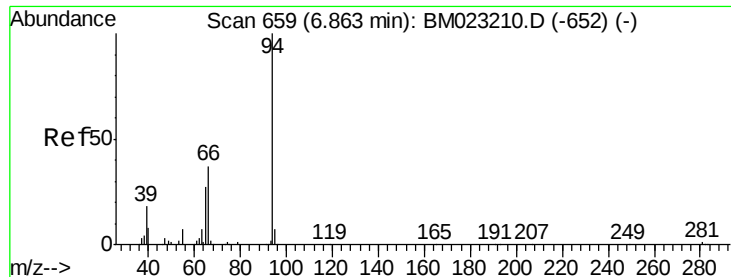
Instrument :
BNA_M
ClientSampleId :
BFBB1

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM

Quant Time: Oct 17 16:12:00 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Oct 17 12:33:14 2019
Response via : Initial Calibration





#6

Phenol

Concen: 5.507 ng/ul

RT: 6.86 min Scan# 659

Delta R.T. 0.01 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

Instrument :

BNA_M

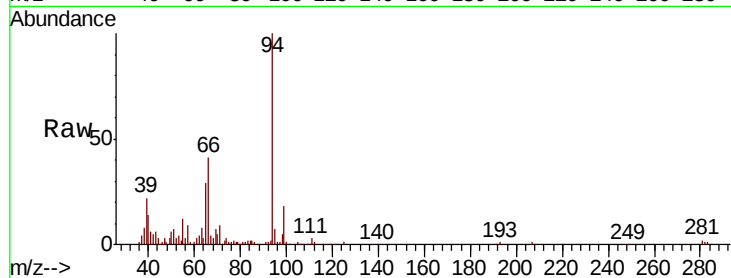
ClientSampleId :

BFBF1

Tot Ion:	94	Resp:	205818
Ion Ratio		Lower	Upper
94	100		
65	28.6	23.7	35.5
66	40.6	32.9	49.3

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM

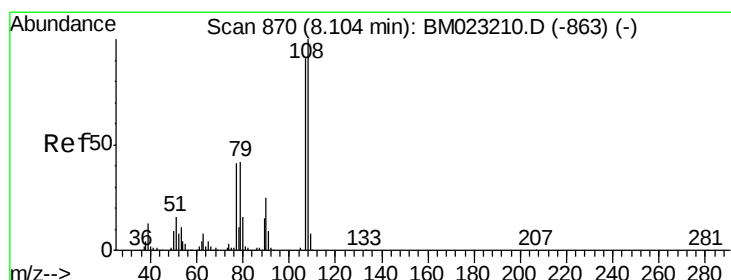
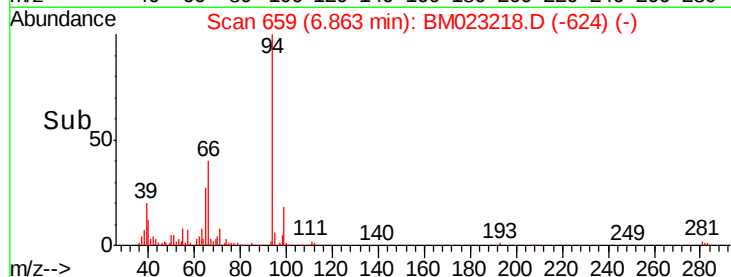
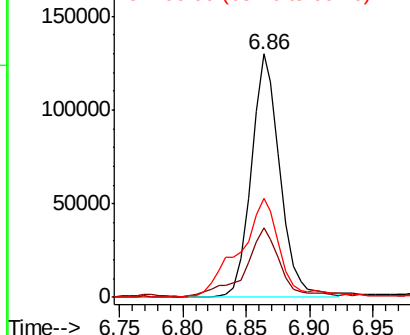


Abundance

Ion 94.00 (93.70 to 94.70): BM023218.D (-652) (-)

Ion 65.00 (64.70 to 65.70): BM023218.D (-652) (-)

Ion 66.00 (65.70 to 66.70): BM023218.D (-652) (-)



#11

2-Methylphenol

Concen: 1.509 ng/ul

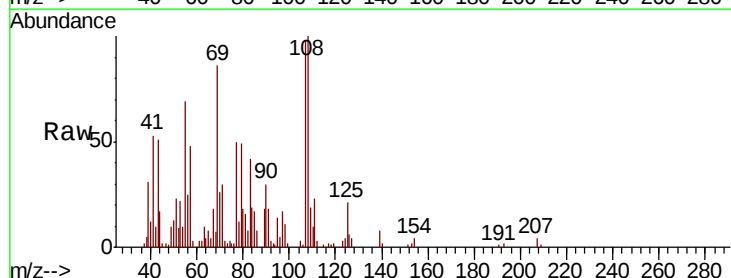
RT: 8.11 min Scan# 871

Delta R.T. 0.01 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

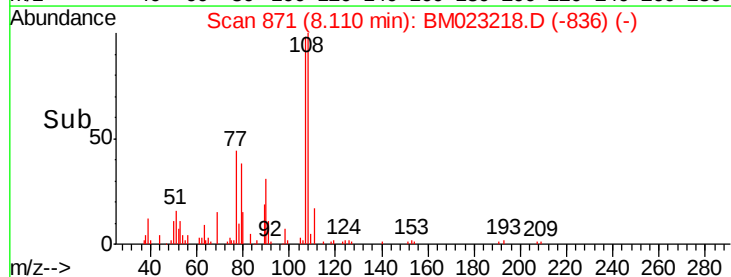
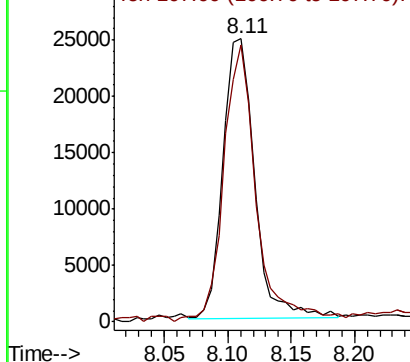
Tgt Ion:	108	Resp:	43231
Ion Ratio		Lower	Upper
108	100		
107	98.0	72.9	109.3

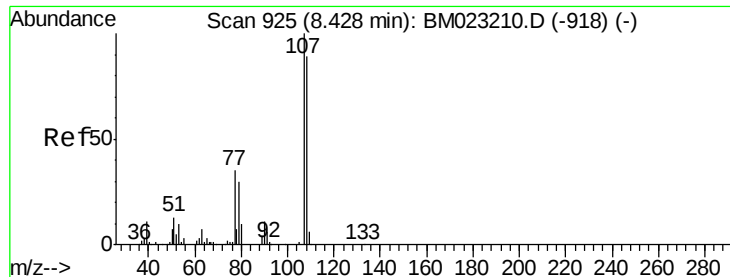


Abundance

Ion 108.00 (107.70 to 108.70): BM023218.D (-836) (-)

Ion 107.00 (106.70 to 107.70): BM023218.D (-836) (-)





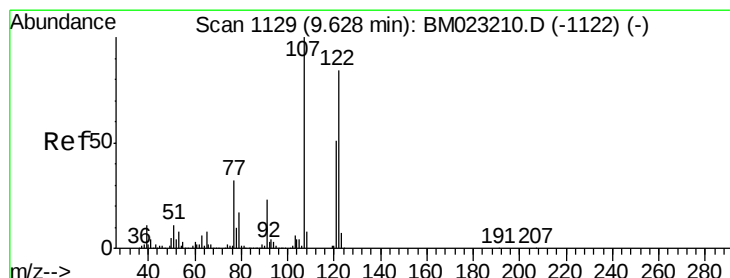
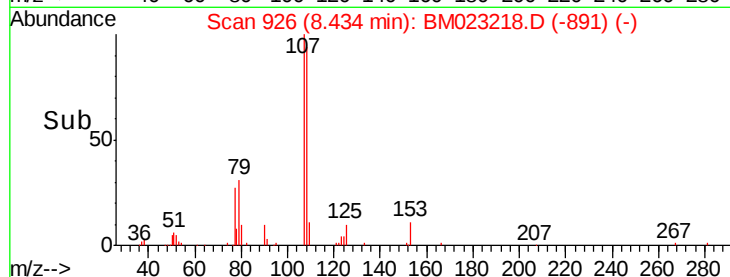
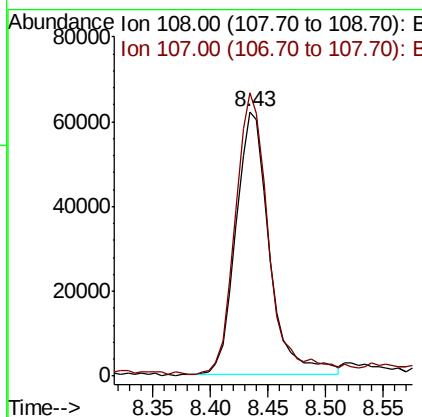
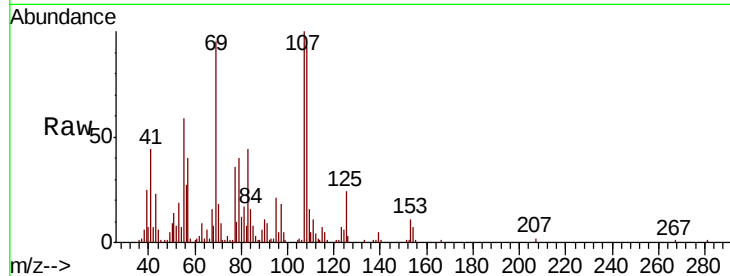
#16
4-Methylphenol
Concen: 4.032 ng/ul
RT: 8.43 min Scan# 926
Delta R.T. 0.01 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampleId :
BFBB1

Tot Ion	Ratio	Lower	Upper
108	100		
107	107.0	89.3	133.9

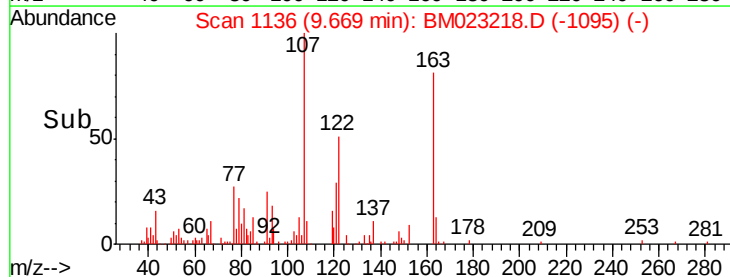
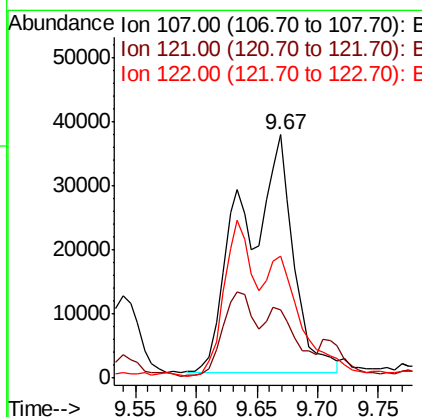
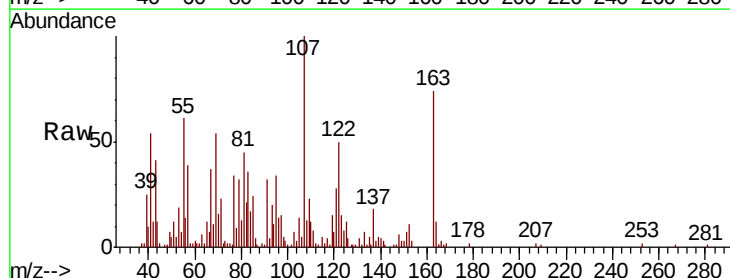
Manual Integrations
APPROVED

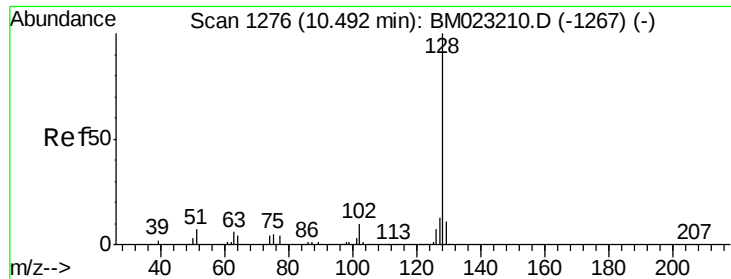
mohammad
10/18/2019 8:28:08 AM



#24
2,4-Dimethylphenol
Concen: 3.499 ng/ul m
RT: 9.67 min Scan# 1136
Delta R.T. 0.04 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion	Ratio	Lower	Upper
107	100		
121	28.0	39.0	58.4#
122	50.2	64.7	97.1#





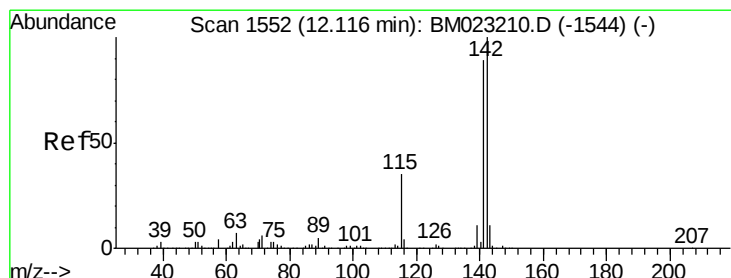
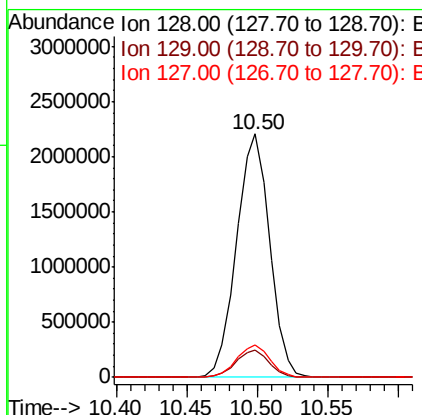
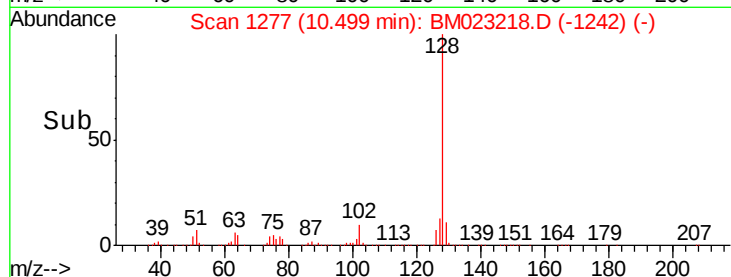
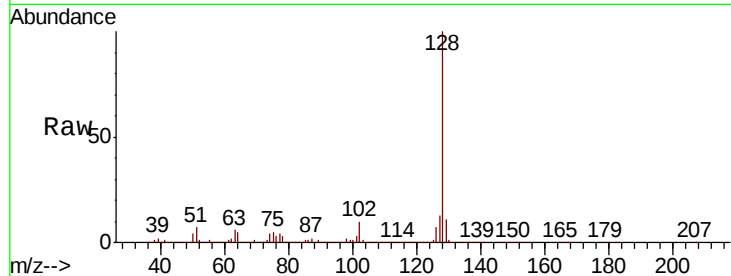
#28
Naphthalene
Concen: 44.850 ng/ul
RT: 10.50 min Scan# 1277
Delta R.T. 0.01 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampleID :
BFBB1

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.3	12.5
127	13.5	10.2	15.4

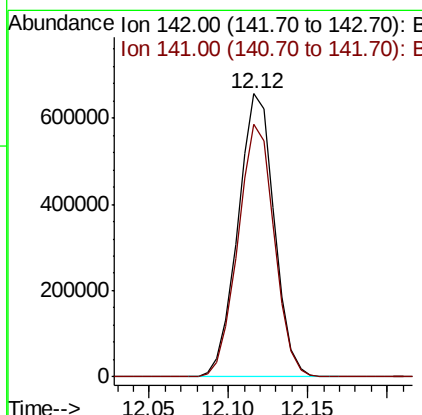
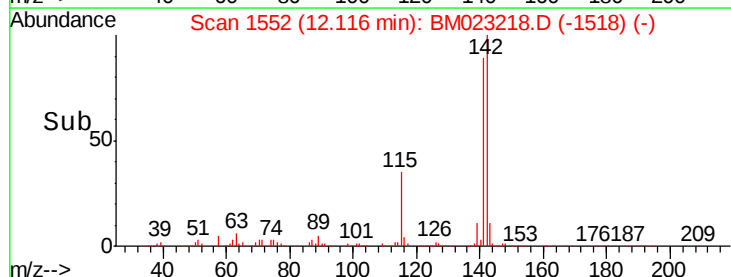
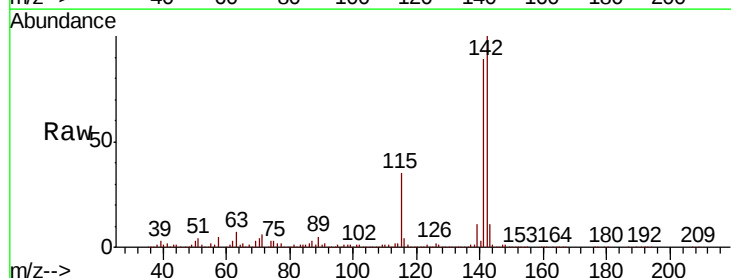
Manual Integrations
APPROVED

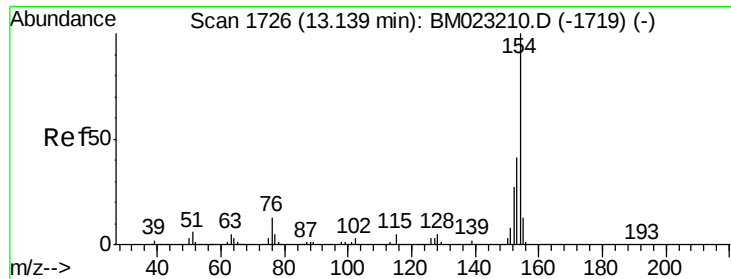
mohammad
10/18/2019 8:28:08 AM



#34
2-Methylnaphthalene
Concen: 17.302 ng/ul
RT: 12.12 min Scan# 1552
Delta R.T. 0.00 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.1	108.1





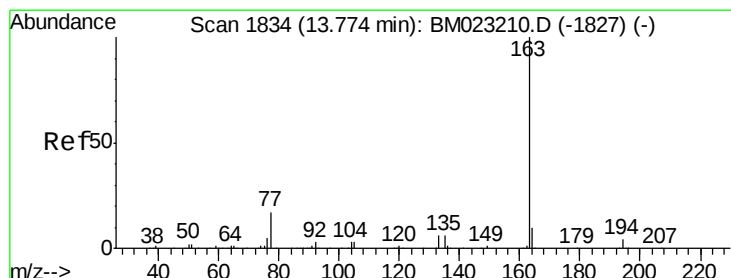
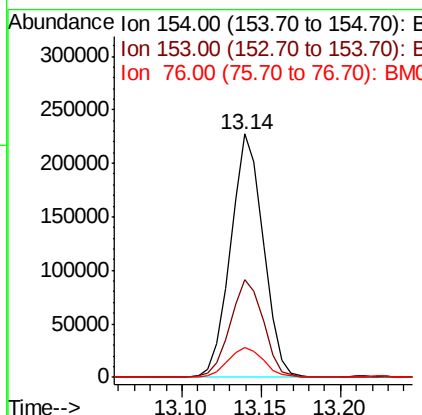
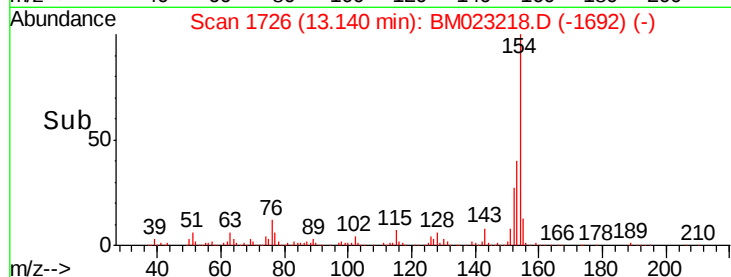
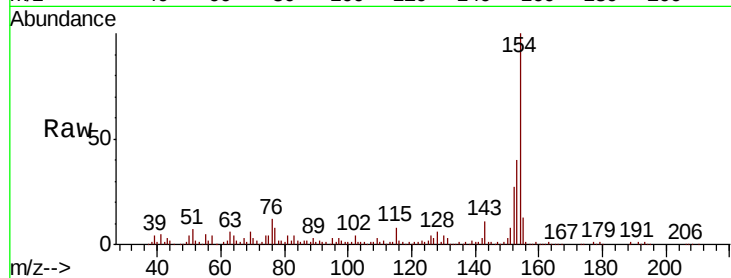
#41
 1,1'-Biphenyl
 Concen: 4.603 ng/ul
 RT: 13.14 min Scan# 1726
 Delta R.T. 0.00 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Instrument :
 BNA_M
 ClientSampleId :
 BFBB1

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.4	33.1	49.7
76	12.2	10.6	15.8

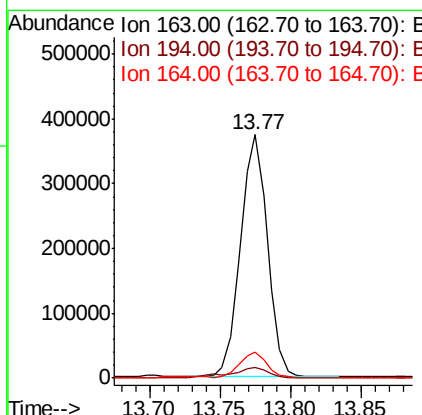
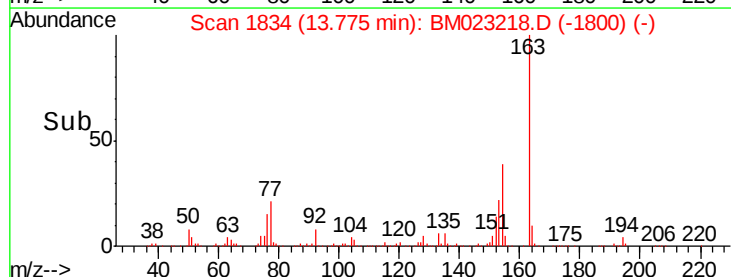
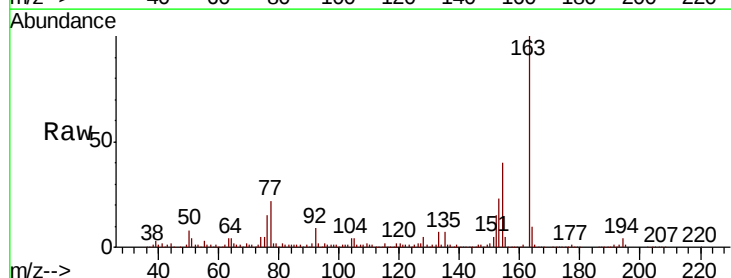
Manual Integrations
 APPROVED

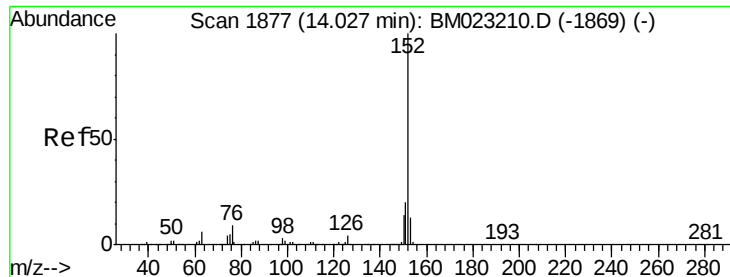
mohammad
 10/18/2019 8:28:08 AM



#45
 Dimethylphthalate
 Concen: 7.049 ng/ul
 RT: 13.77 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.5	5.3
164	10.5	8.0	12.0





#48

Acenaphthylene

Concen: 159.732 ng/ul

RT: 14.03 min Scan# 1878

Delta R.T. 0.01 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

Instrument :

BNA_M

ClientSampled :

BFBB1

Tot Ion:152 Resp:13539560

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.8	23.6
153	13.8	10.3	15.5

152 100

151 21.0 15.8 23.6

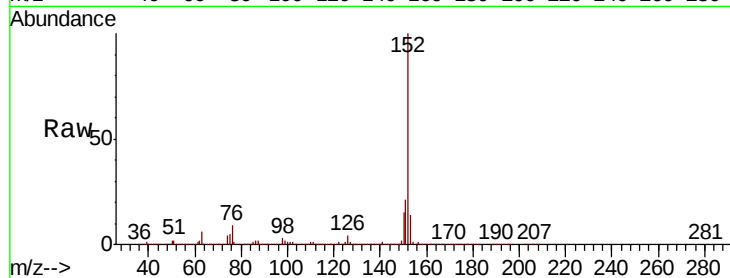
153 13.8 10.3 15.5

Manual Integrations

APPROVED

mohammad

10/18/2019 8:28:08 AM

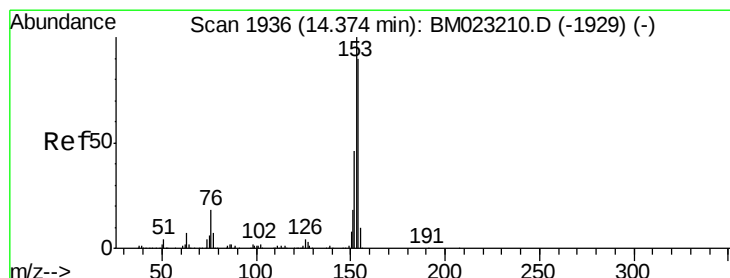
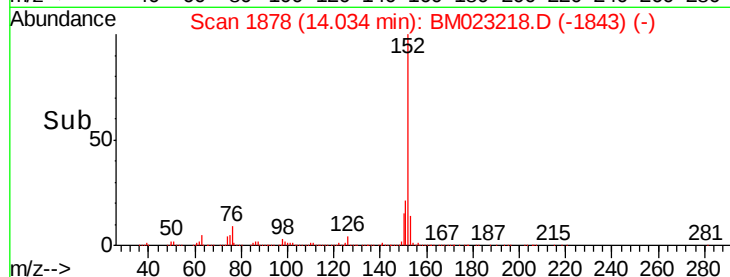
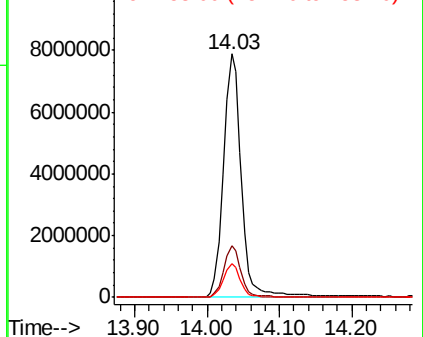


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 43.683 ng/ul

RT: 14.37 min Scan# 1936

Delta R.T. 0.00 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

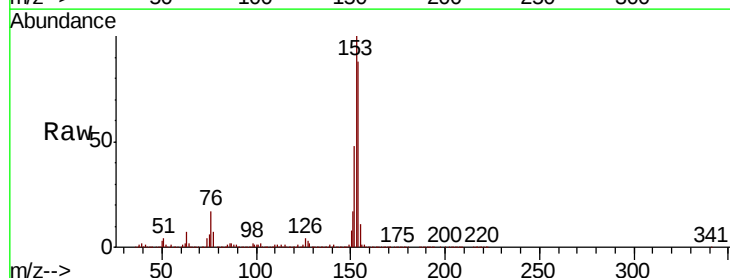
Tgt Ion:153 Resp: 2578366

Ion	Ratio	Lower	Upper
153	100		
152	48.0	38.0	57.0
154	88.3	70.4	105.6

153 100

152 48.0 38.0 57.0

154 88.3 70.4 105.6

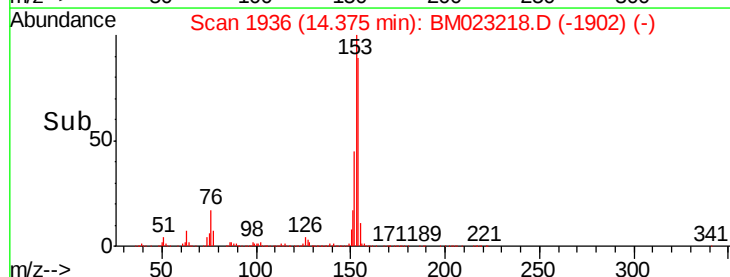
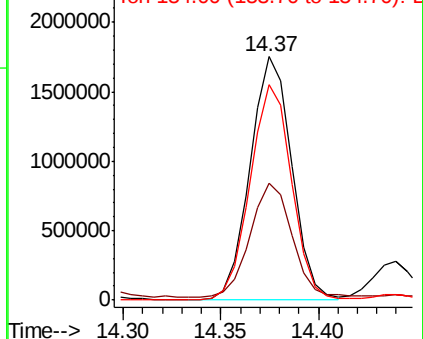


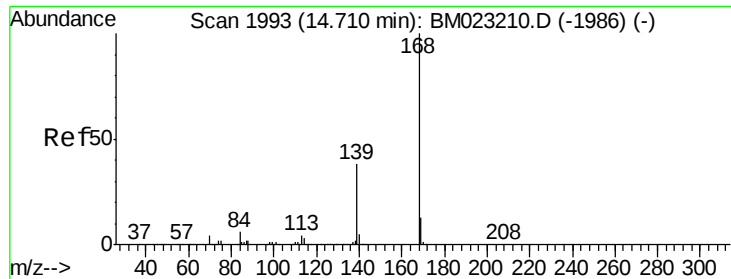
Abundance

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





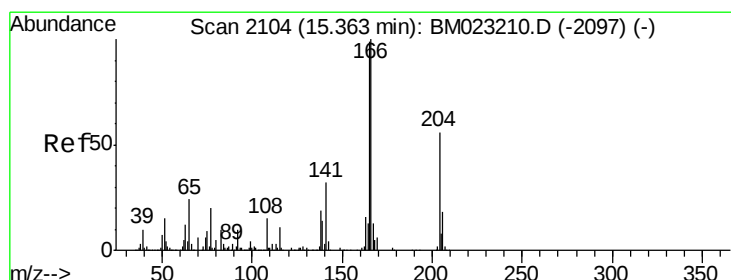
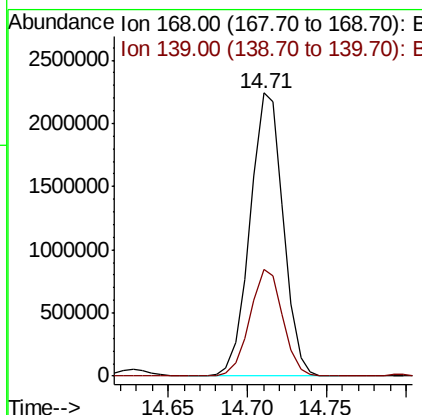
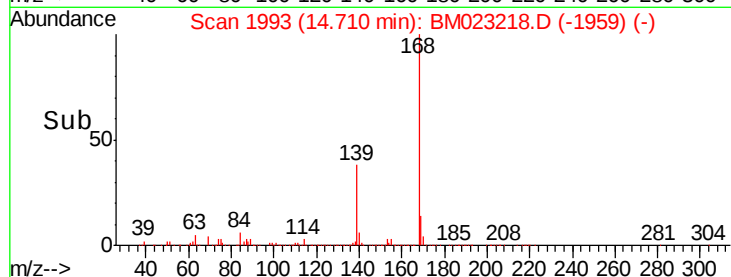
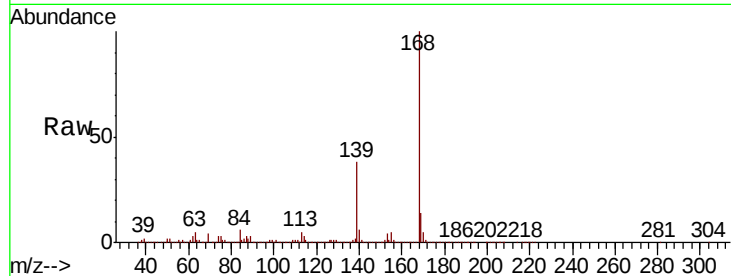
#54
Dibenzenofuran
Concen: 38.809 ng/ul
RT: 14.71 min Scan# 1993
Delta R.T. 0.00 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampled :
BFBB1

Tot Ion:168 Resp: 3251909
Ion Ratio Lower Upper
168 100
139 37.7 30.1 45.1

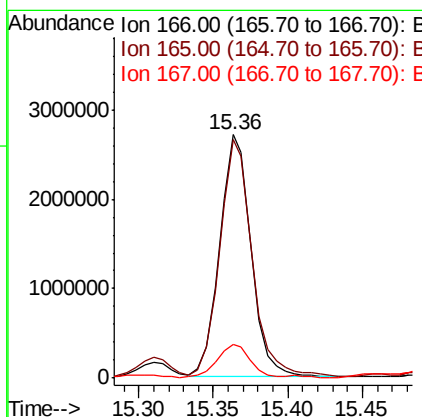
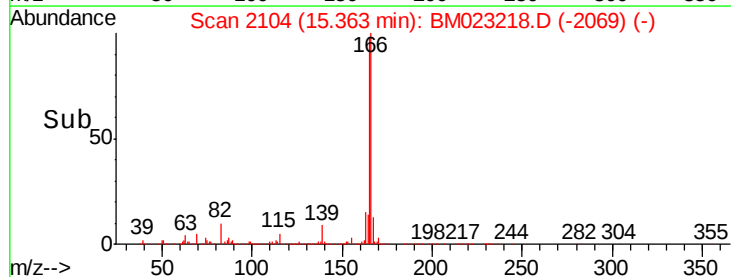
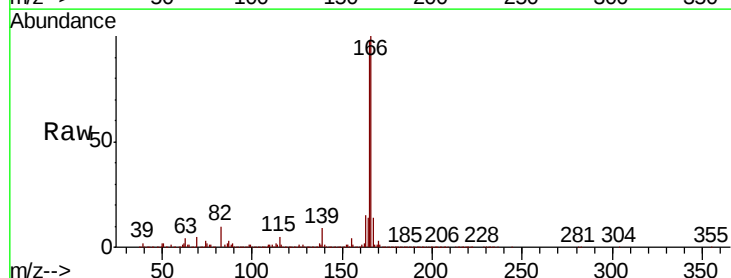
Manual Integrations
APPROVED

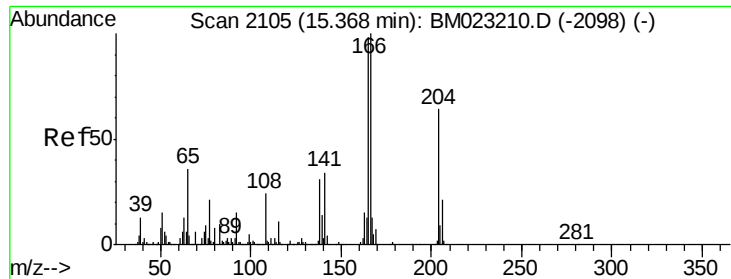
mohammad
10/18/2019 8:28:08 AM



#59
Fluorene
Concen: 57.734 ng/ul
RT: 15.36 min Scan# 2104
Delta R.T. 0.01 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion:166 Resp: 3969077
Ion Ratio Lower Upper
166 100
165 98.2 77.4 116.0
167 14.0 10.8 16.2





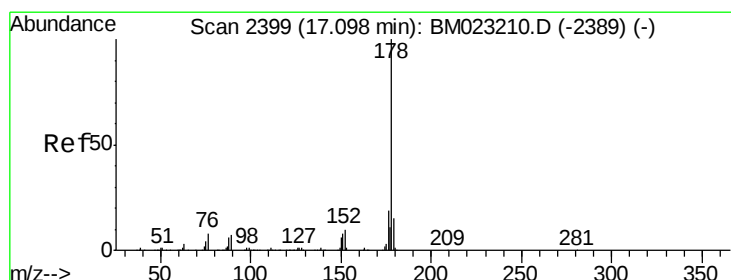
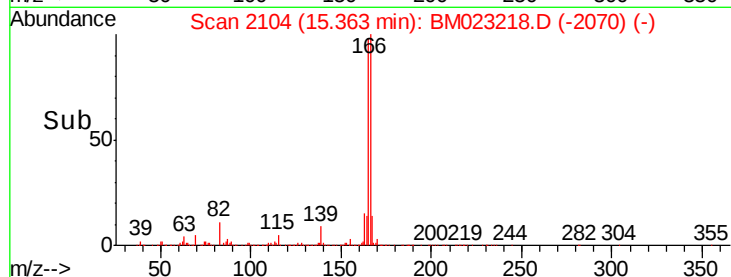
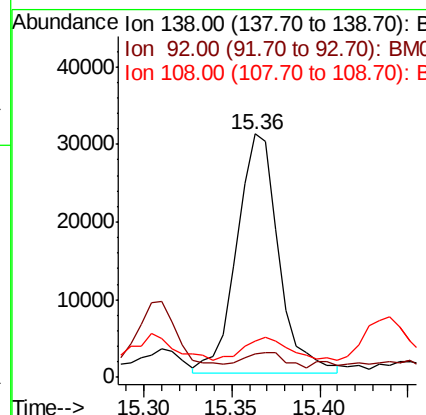
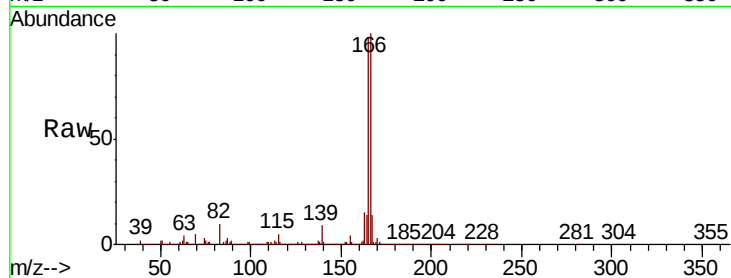
#61
4-Nitroaniline
Concen: 3.506 ng/ul m
RT: 15.36 min Scan# 2104
Delta R.T. 0.00 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampleId :
BFBB1

Tot Ion	Ratio	Lower	Upper
138	100		
92	9.9	42.6	64.0#
108	14.7	71.9	107.9#

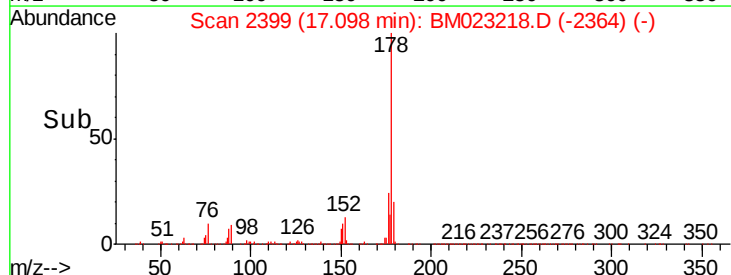
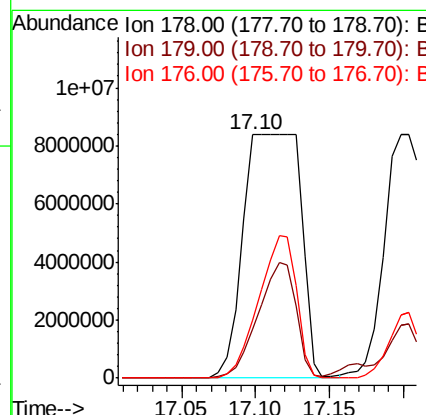
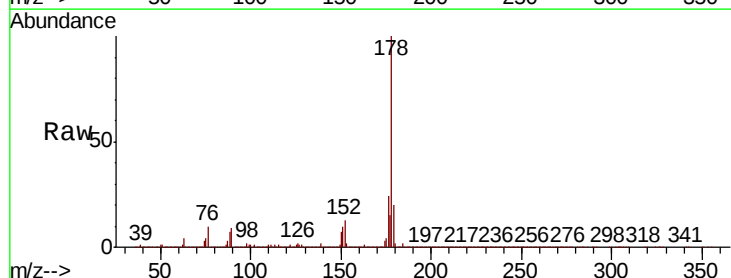
Manual Integrations
APPROVED

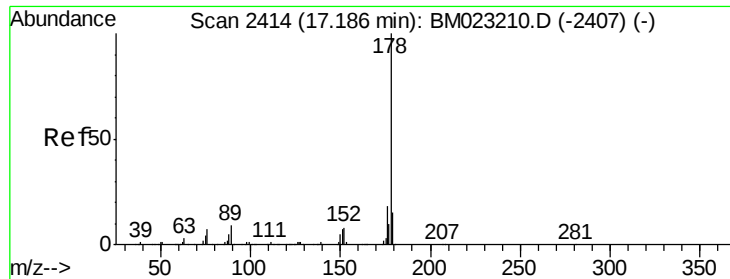
mohammad
10/18/2019 8:28:08 AM



#70
Phenanthrene
Concen: 223.070 ng/ul m
RT: 17.10 min Scan# 2399
Delta R.T. 0.01 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.3	18.5#
176	23.9	15.5	23.3#





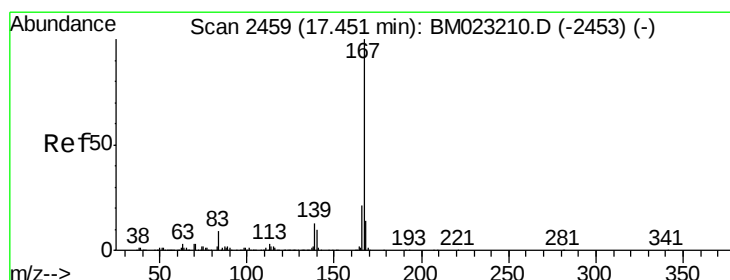
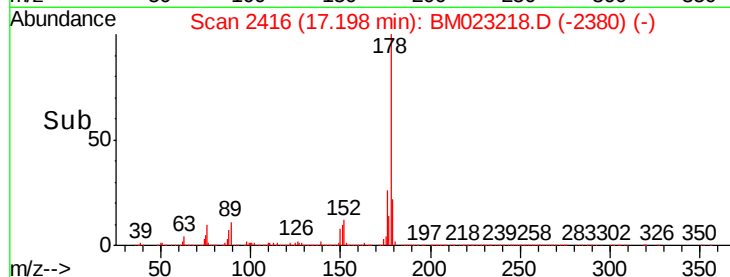
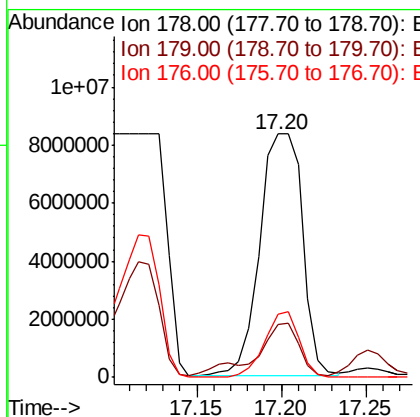
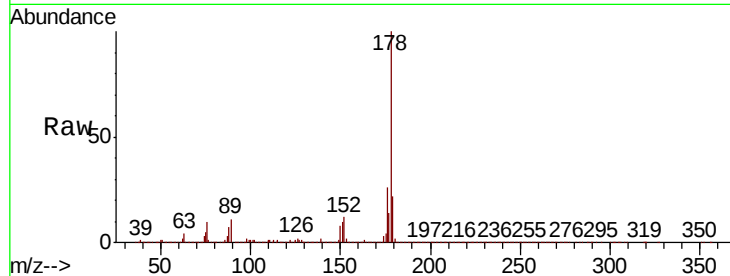
#72
 Anthracene
 Concen: 139.333 ng/ul
 RT: 17.20 min Scan# 2416
 Delta R.T. 0.01 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Instrument :
 BNA_M
 ClientSampleID :
 BFBB1

Tot Ion:178 Resp:14595586
 Ion Ratio Lower Upper
 178 100
 179 21.7 12.3 18.5#
 176 25.9 15.0 22.4#

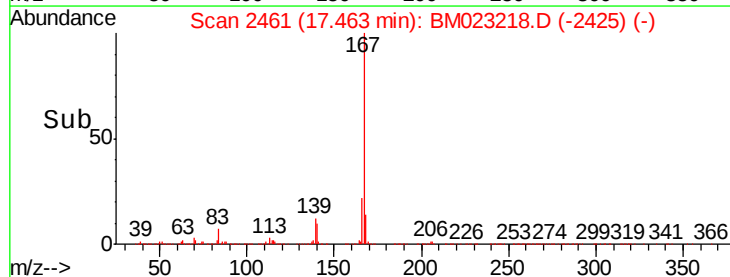
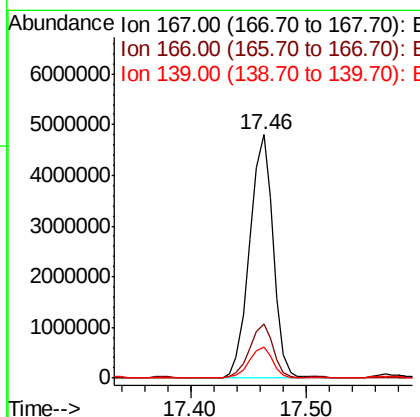
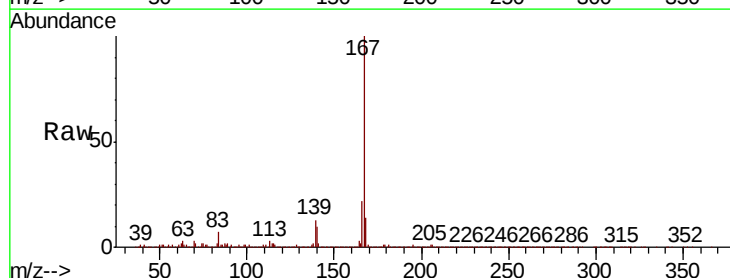
Manual Integrations
 APPROVED

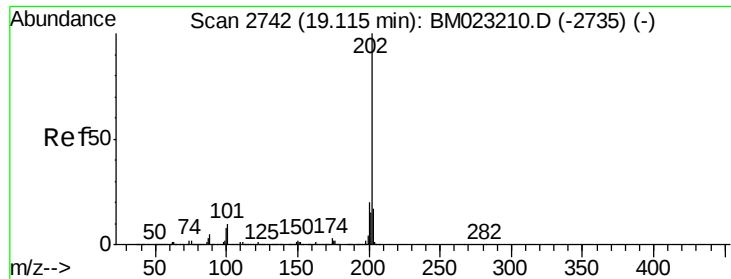
mohammad
 10/18/2019 8:28:08 AM



#75
 Carbazole
 Concen: 72.453 ng/ul
 RT: 17.46 min Scan# 2461
 Delta R.T. 0.01 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Tgt Ion:167 Resp: 6780248
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.4 26.0
 139 12.6 10.2 15.2





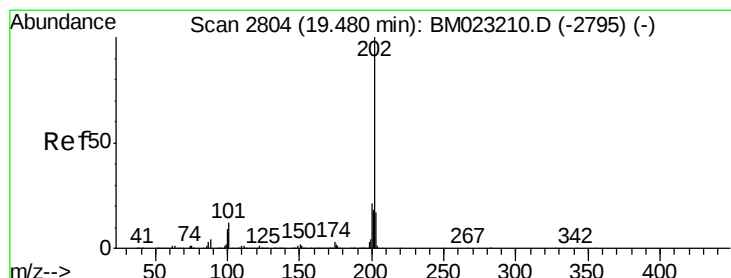
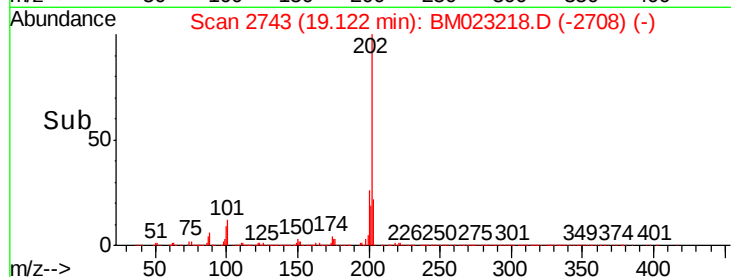
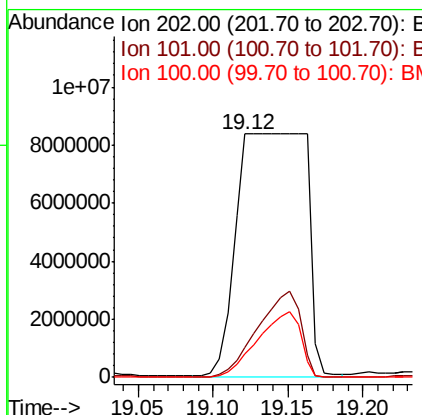
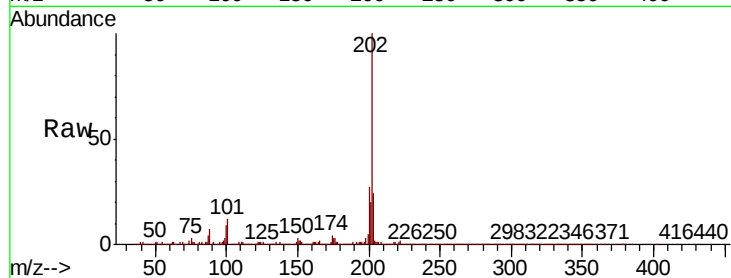
#77
 Fluoranthene
 Concen: 225.912 ng/ul m
 RT: 19.12 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Instrument :
 BNA_M
 ClientSampleId :
 BFBB1

Tot Ion:202 Resp:27235943
 Ion Ratio Lower Upper
 202 100
 101 12.4 7.8 11.8#
 100 9.4 6.1 9.1#

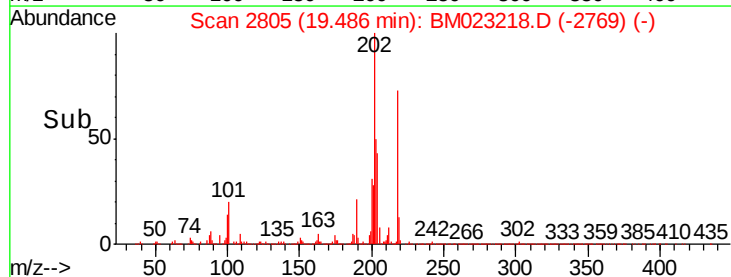
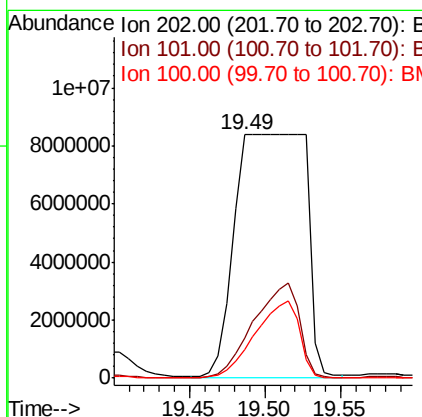
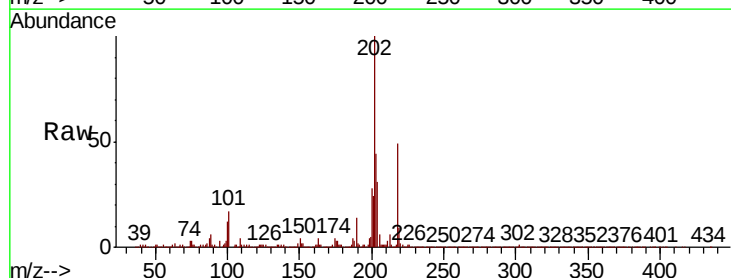
Manual Integrations
 APPROVED

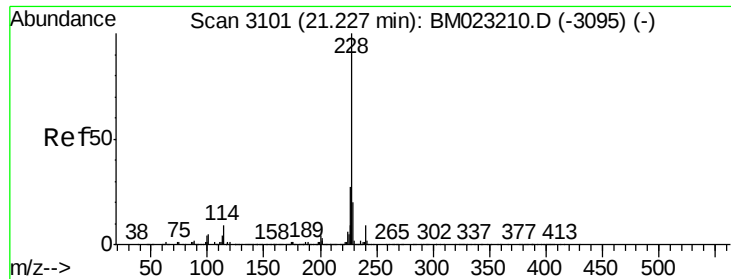
mohammad
 10/18/2019 8:28:08 AM



#80
 Pyrene
 Concen: 249.253 ng/ul m
 RT: 19.49 min Scan# 2805
 Delta R.T. 0.01 min
 Lab File: BM023218.D
 Acq: 17 Oct 2019 12:50

Tgt Ion:202 Resp:27591095
 Ion Ratio Lower Upper
 202 100
 101 16.7 9.1 13.7#
 100 11.9 7.5 11.3#





#83

Benzo(a)anthracene

Concen: 210.539 ng/ul m

RT: 21.24 min Scan# 3104

Delta R.T. 0.02 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

Instrument :

BNA_M

ClientSampled :

BFBB1

Tot Ion:228 Resp:25207233

Ion Ratio Lower Upper

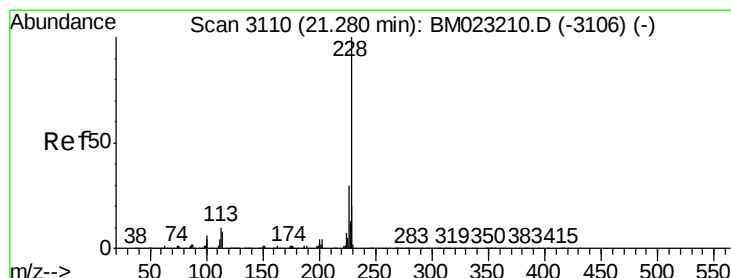
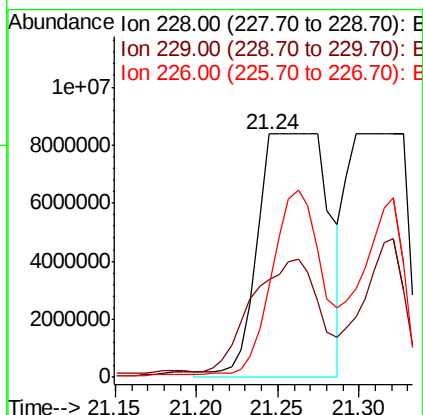
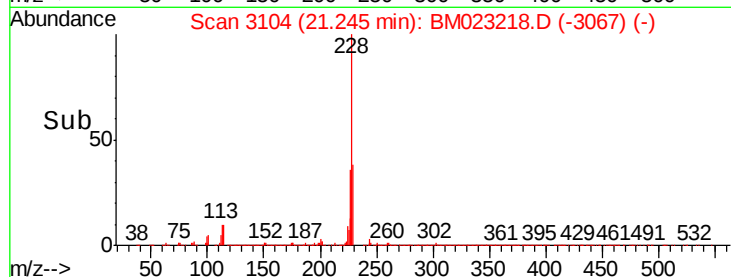
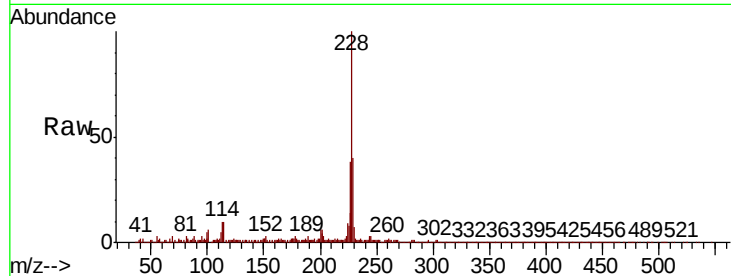
228 100

229 39.9 15.7 23.5#

226 37.6 21.6 32.4#

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM



#85

Chrysene

Concen: 194.429 ng/ul m

RT: 21.30 min Scan# 3113

Delta R.T. 0.02 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

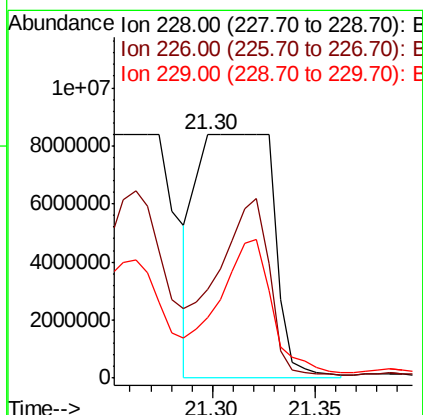
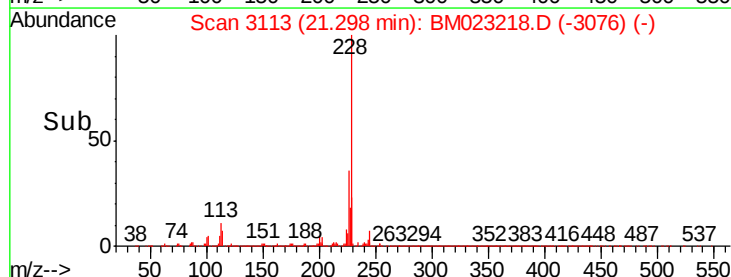
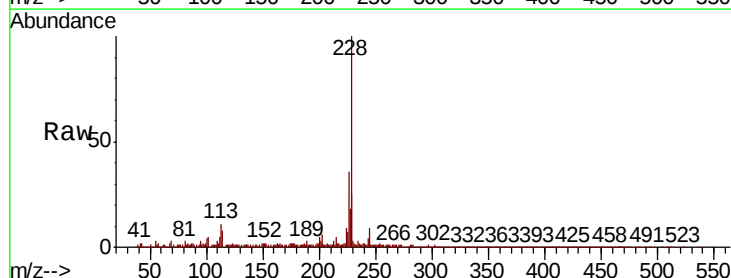
Tgt Ion:228 Resp:21614878

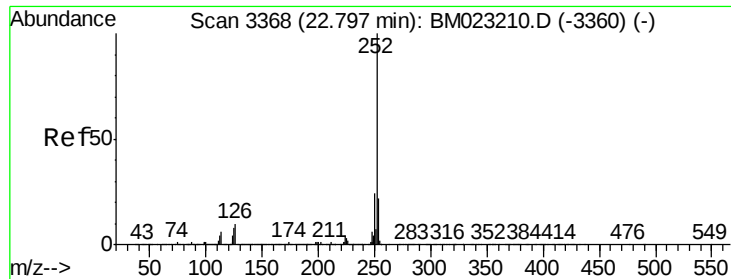
Ion Ratio Lower Upper

228 100

226 36.3 23.8 35.6#

229 24.9 15.5 23.3#





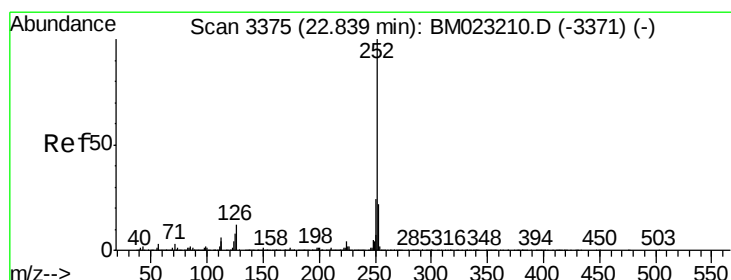
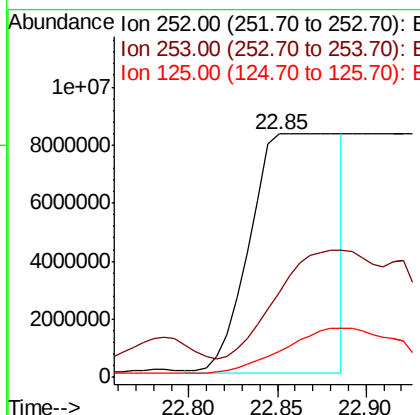
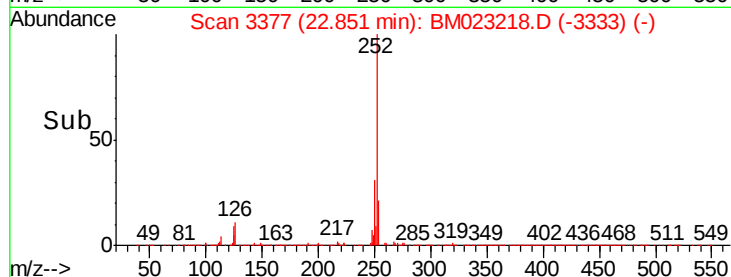
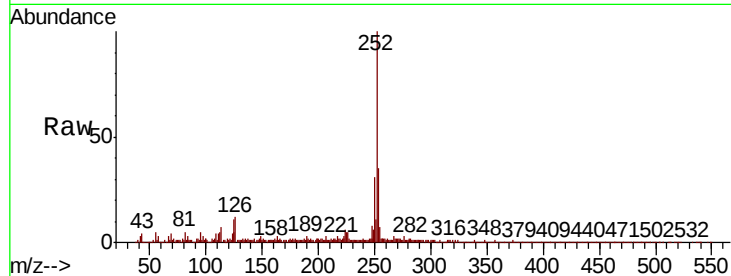
#88
Benzo(b)fluoranthene
Concen: 181.326 ng/ul m
RT: 22.85 min Scan# 3377
Delta R.T. 0.06 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampled :
BFBB1

Tot Ion:252 Resp:28365924
Ion Ratio Lower Upper
252 100
253 34.9 17.6 26.4#
125 10.7 6.4 9.6#

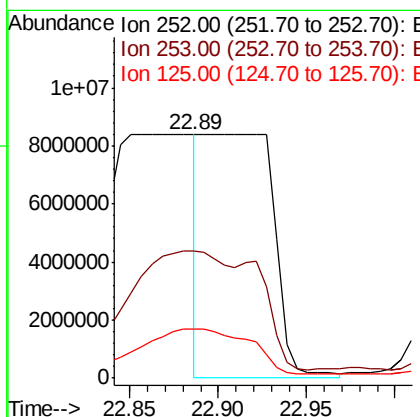
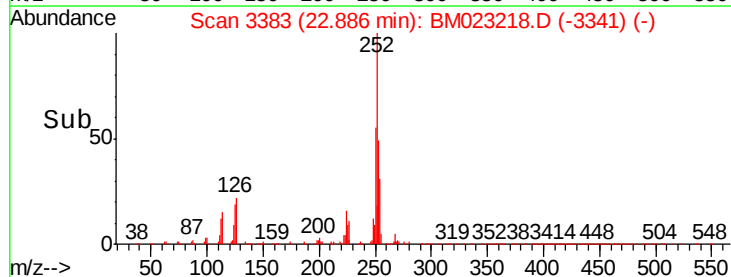
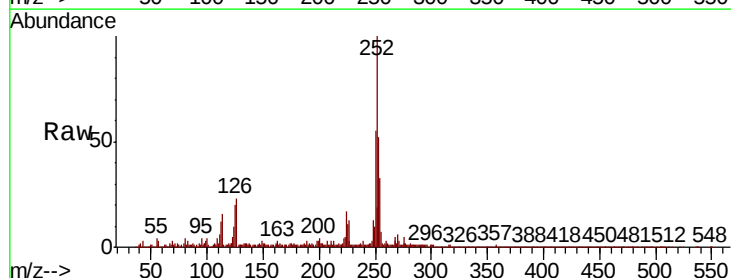
Manual Integrations
APPROVED

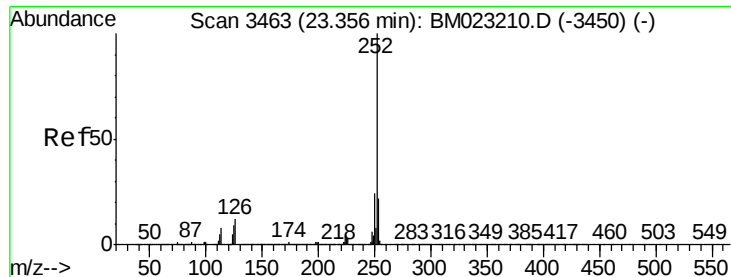
mohammad
10/18/2019 8:28:08 AM



#89
Benzo(k)fluoranthene
Concen: 154.386 ng/ul m
RT: 22.89 min Scan# 3383
Delta R.T. 0.05 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion:252 Resp:23190607
Ion Ratio Lower Upper
252 100
253 52.5 17.4 26.0#
125 20.3 6.5 9.7#





#91

Benzo(a)pyrene

Concen: 229.883 ng/ul m

RT: 23.44 min Scan# 3477

Delta R.T. 0.08 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

Instrument :

BNA_M

ClientSampled :

BFB1

Tot Ion:252 Resp:34502009

Ion Ratio Lower Upper

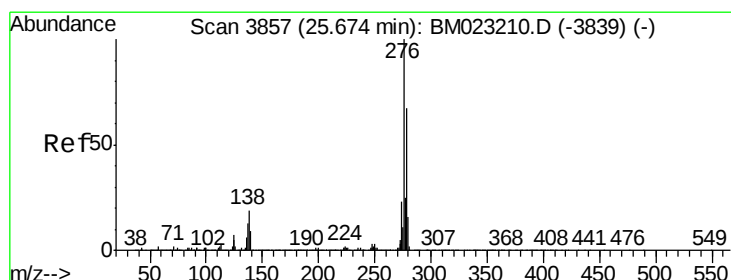
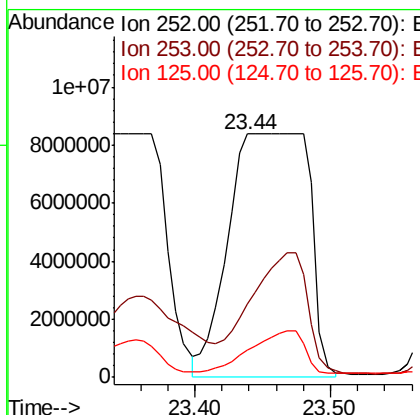
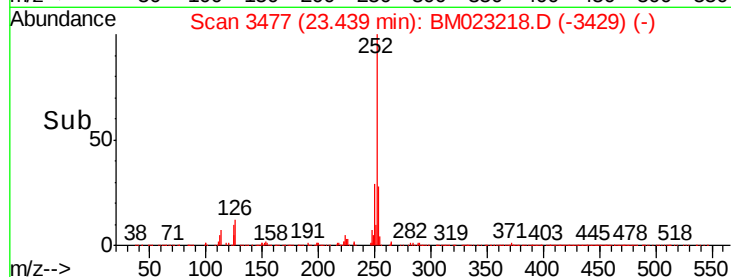
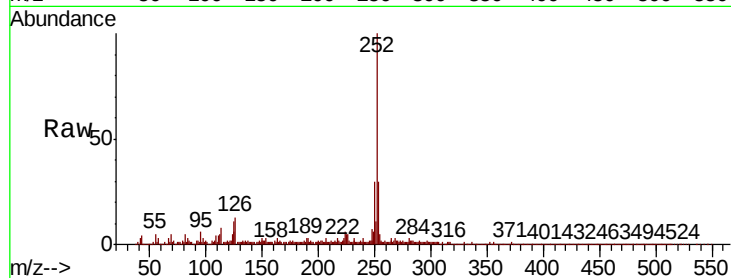
252 100

253 30.2 17.2 25.8#

125 11.0 7.4 11.0#

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM



#92

Indeno(1,2,3-cd)pyrene

Concen: 231.164 ng/ul m

RT: 25.87 min Scan# 3890

Delta R.T. 0.20 min

Lab File: BM023218.D

Acq: 17 Oct 2019 12:50

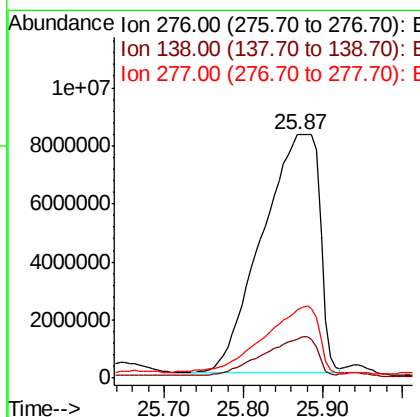
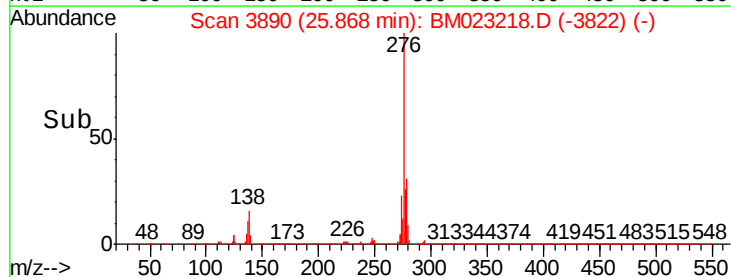
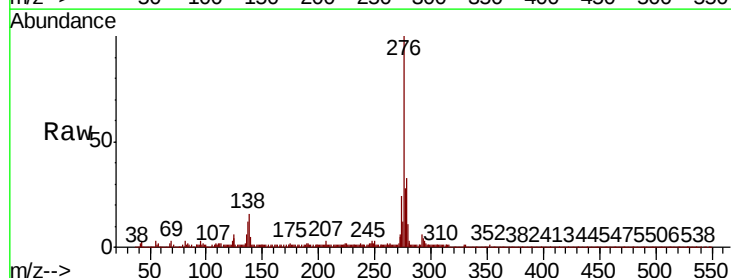
Tgt Ion:276 Resp:41273679

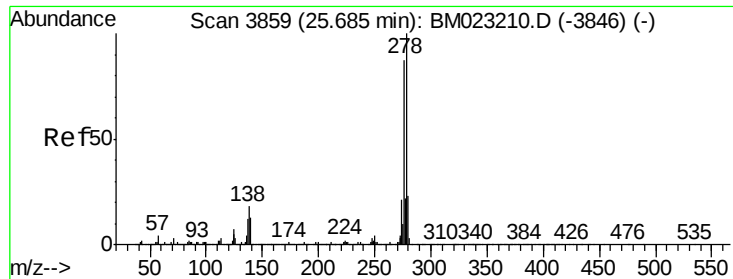
Ion Ratio Lower Upper

276 100

138 16.1 14.9 22.3

277 27.8 19.8 29.8





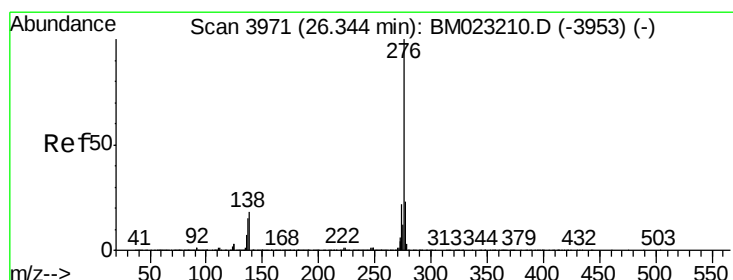
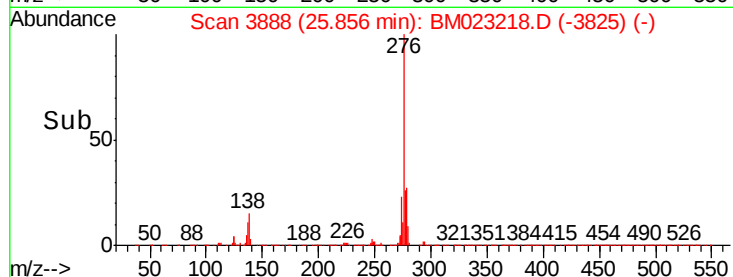
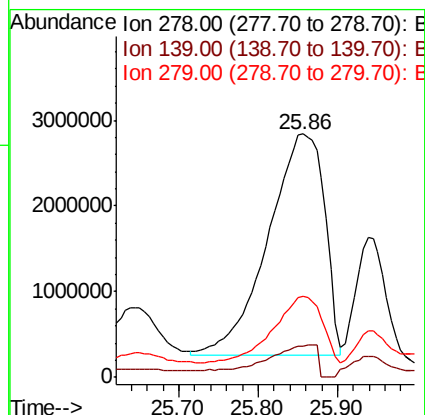
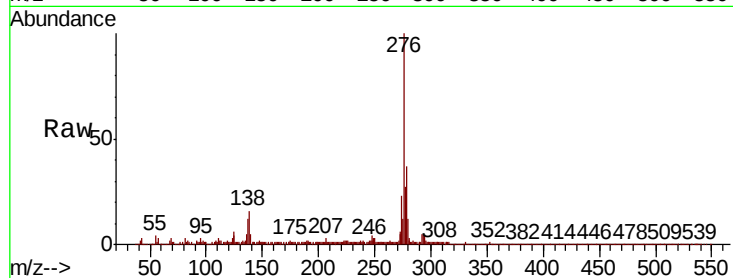
#93
Dibenzo(a,h)anthracene
Concen: 85.894 ng/ul m
RT: 25.86 min Scan# 3888
Delta R.T. 0.17 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Instrument :
BNA_M
ClientSampleId :
BFBB1

Tot Ion:278 Resp:12822937
Ion Ratio Lower Upper
278 100
139 13.0 10.0 15.0
279 33.3 19.4 29.0#

Manual Integrations
APPROVED

mohammad
10/18/2019 8:28:08 AM



#94
Benzo(g,h,i)perylene
Concen: 261.115 ng/ul m
RT: 26.59 min Scan# 4012
Delta R.T. 0.25 min
Lab File: BM023218.D
Acq: 17 Oct 2019 12:50

Tgt Ion:276 Resp:38385040
Ion Ratio Lower Upper
276 100
138 15.6 14.4 21.6
277 26.6 19.4 29.2

