

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\
 Data File : BM023323.D
 Acq On : 22 Oct 2019 17:45
 Operator : JU
 Sample : K5345-03MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ6MSD

Manual Integrations
 APPROVED

mohammad
 10/24/2019 8:08:38 AM

Quant Time: Oct 22 18:28:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Oct 22 11:39:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	359865	20.00	ng/ul	0.00
18) Naphthalene-d8	10.43	136	1419767	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.29	164	892121	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.04	188	1873292	20.00	ng/ul	0.00
78) Chrysene-d12	21.23	240	2003649	20.00	ng/ul	0.00
86) Perylene-d12	23.44	264	2535735m	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.17	96	24450	2.99	ng/uL	0.00
5) Phenol-d5	6.82	99	491789	15.69	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.99	67	268262	15.13	ng/ul	0.00
9) 2-Chlorophenol-d4	7.18	132	391346	16.31	ng/ul	0.00
13) 4-Methylphenol-d8	8.35	113	397560	15.79	ng/ul	0.00
19) Nitrobenzene-d5	8.79	128	178481	18.58	ng/ul	0.00
22) 2-Nitrophenol-d4	9.51	143	193650	21.17	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.05	165	420729	18.09	ng/ul	0.00
29) 4-Chloroaniline-d4	10.56	131	456215	16.12	ng/ul	0.00
44) Dimethylphthalate-d6	13.71	166	1361463	19.91	ng/ul	0.00
47) Acenaphthylene-d8	13.98	160	1513531	18.88	ng/ul	0.00
52) 4-Nitrophenol-d4	14.49	143	201828	18.24	ng/ul	0.00
58) Fluorene-d10	15.29	176	1172919	20.14	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.41	200	162778	21.92	ng/ul	0.00
71) Anthracene-d10	17.13	188	1962338	21.72	ng/ul	0.00
79) Pyrene-d10	19.43	212	2197089	22.64	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.31	264	2709907	21.08	ng/ul	0.02

Target Compounds

					Ovalue
6) Phenol	6.85	94	607420	18.793	ng/ul 99
10) 2-Chlorophenol	7.21	128	444949	17.748	ng/ul 95
15) N-Nitroso-di-n-propylamine	8.45	70	338552	15.616	ng/ul 96
28) Naphthalene	10.47	128	861287	11.737	ng/ul 99
33) 4-Chloro-3-methylphenol	11.72	107	539482	20.715	ng/ul 99
34) 2-Methylnaphthalene	12.10	142	141369	2.589	ng/ul 99
45) Dimethylphthalate	13.76	163	308851	4.513	ng/ul 99
48) Acenaphthylene	14.01	152	1697771	20.708	ng/ul 100
50) Acenaphthene	14.36	153	1548644	27.127	ng/ul 99
53) 4-Nitrophenol	14.50	109	198423	19.903	ng/ul 96
54) Dibenzofuran	14.69	168	275478	3.399	ng/ul 98
55) 2,4-Dinitrotoluene	14.66	165	428081	27.240	ng/ul# 96
59) Fluorene	15.34	166	248097	3.731	ng/ul 96
69) Pentachlorophenol	16.69	266	210759	14.670	ng/ul 97
70) Phenanthrene	17.08	178	1989687	18.926	ng/ul 99
72) Anthracene	17.17	178	4187056	38.541	ng/ul 99
75) Carbazole	17.44	167	695783	7.169	ng/ul 100
77) Fluoranthene	19.10	202	9323006	74.566	ng/ul 99
80) Pyrene	19.47	202	12028307	95.828	ng/ul 99
83) Benzo(a)anthracene	21.22	228	7846420m	57.795	ng/ul
85) Chrysene	21.27	228	11397612	90.414	ng/ul 96
88) Benzo(b)fluoranthene	22.80	252	20383672	132.583	ng/ul 97
89) Benzo(k)fluoranthene	22.83	252	5748444m	38.939	ng/ul

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\
Data File : BM023323.D
Acq On : 22 Oct 2019 17:45
Operator : JU
Sample : K5345-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ETOJ6MSD

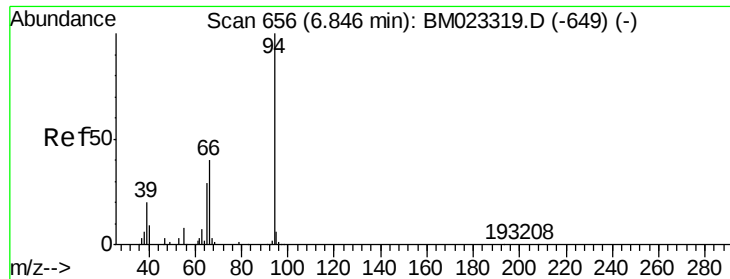
Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM

Quant Time: Oct 22 18:28:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Oct 22 11:39:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	23.35	252	9869187	66.909	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	25.66	276	9418255m	53.673	ng/ul	
93) Dibenzo(a,h)anthracene	25.66	278	2516252m	17.150	ng/ul	
94) Benzo(g,h,i)perylene	26.34	276	8720982m	60.364	ng/ul	

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



#6

Phenol

Concen: 18.793 ng/ul

RT: 6.85 min Scan# 656

Delta R.T. -0.00 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

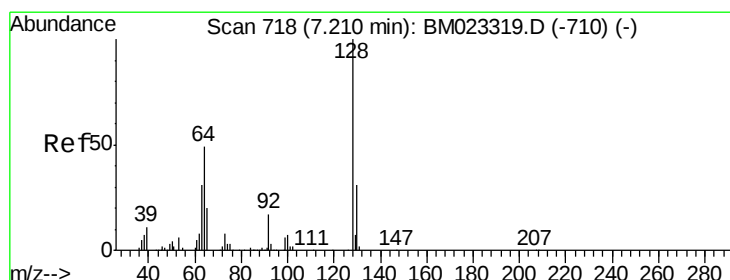
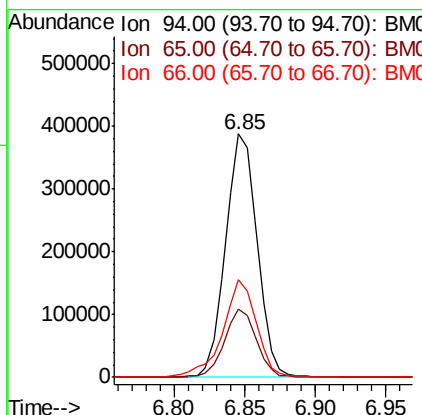
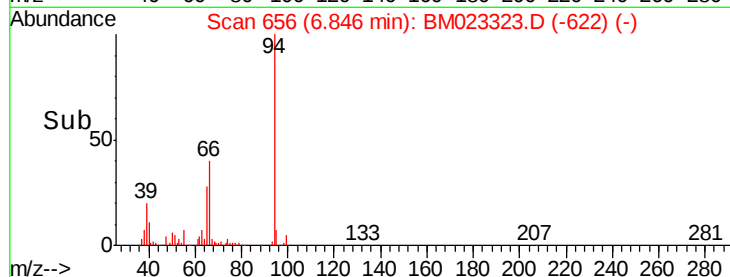
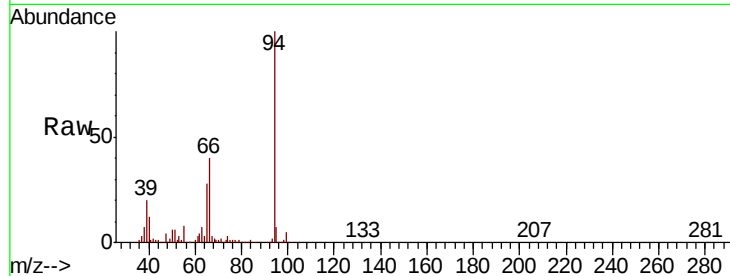
ClientSampled :

ETOJ6MSD

Tot Ion:	94	Resp:	607420
Ion	Ratio	Lower	Upper
94	100		
65	28.2	23.2	34.8
66	40.2	32.9	49.3

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM



#10

2-Chlorophenol

Concen: 17.748 ng/ul

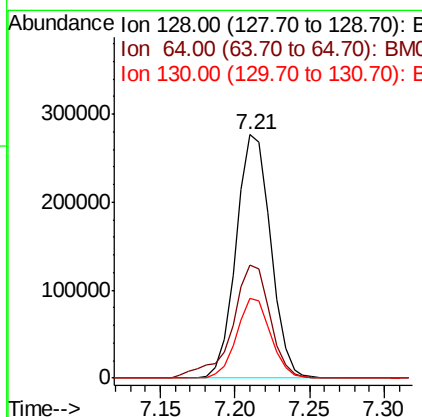
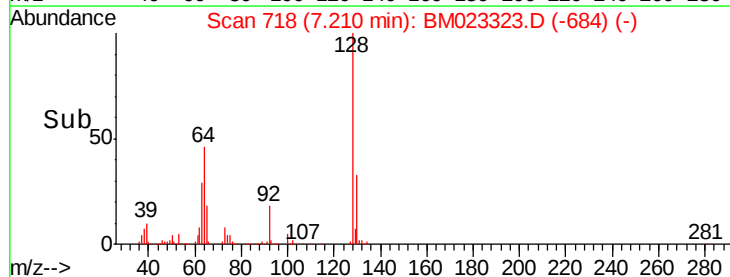
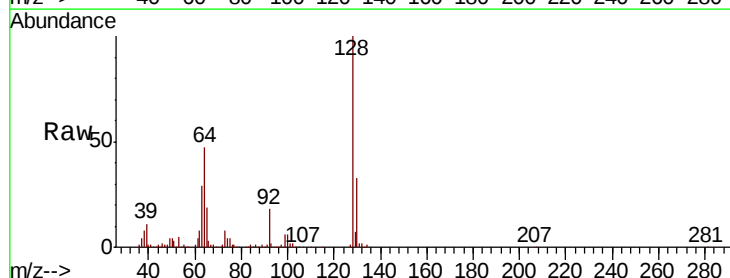
RT: 7.21 min Scan# 718

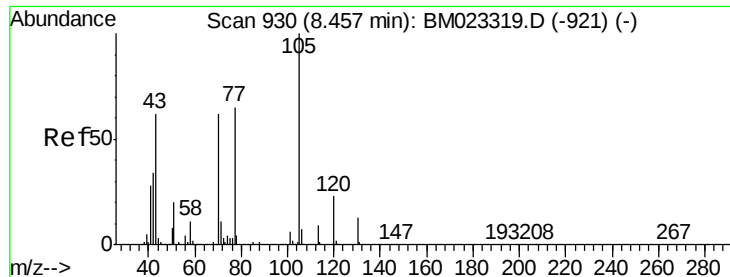
Delta R.T. -0.00 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Tgt Ion:	128	Resp:	444949
Ion	Ratio	Lower	Upper
128	100		
64	46.5	40.3	60.5
130	33.0	24.7	37.1





#15

N-Nitroso-di-n-propylamine

Concen: 15.616 ng/ul

RT: 8.45 min Scan# 929

Delta R.T. -0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

ClientSampleId :

ETOJ6MSD

Tot Ion: 70 Resp: 338552

Ion Ratio Lower Upper

70 100

42 51.7 44.9 67.3

101 9.3 7.9 11.9

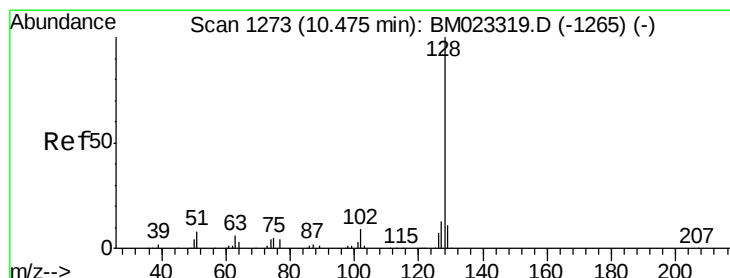
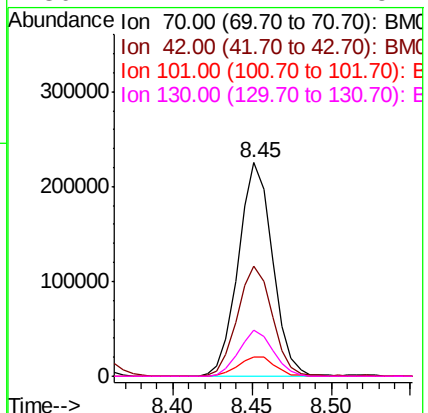
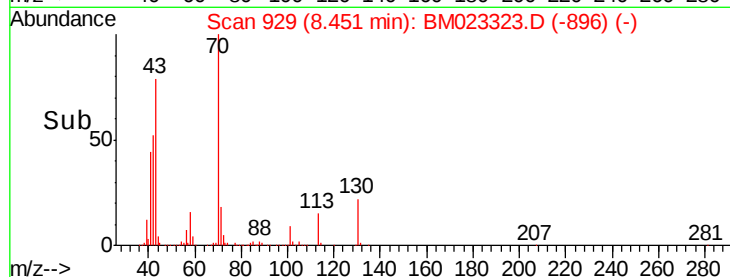
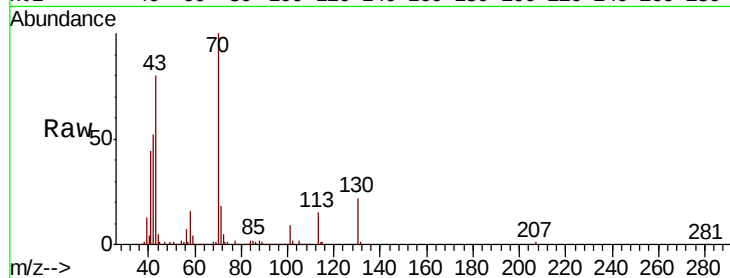
130 21.7 17.1 25.7

Manual Integrations

APPROVED

mohammad

10/24/2019 8:08:38 AM



#28

Naphthalene

Concen: 11.737 ng/ul

RT: 10.47 min Scan# 1273

Delta R.T. -0.00 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

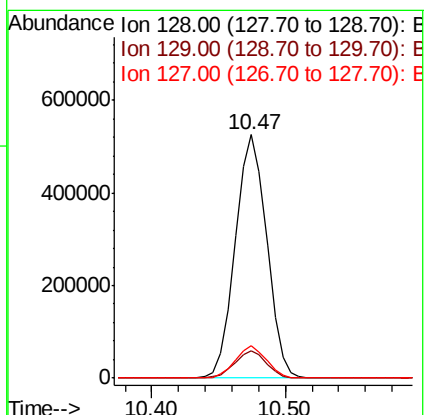
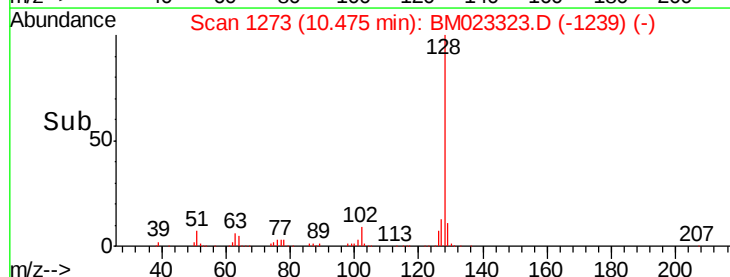
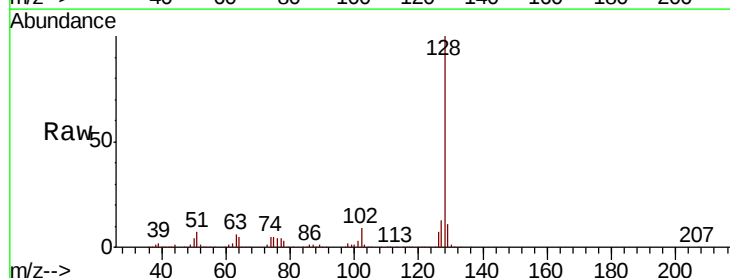
Tgt Ion: 128 Resp: 861287

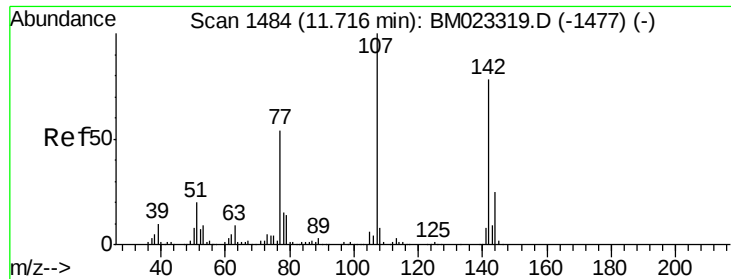
Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

127 13.2 10.2 15.4





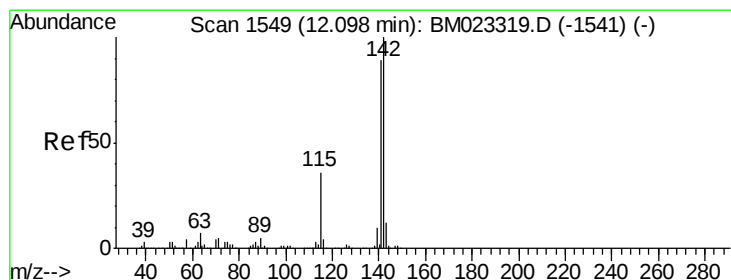
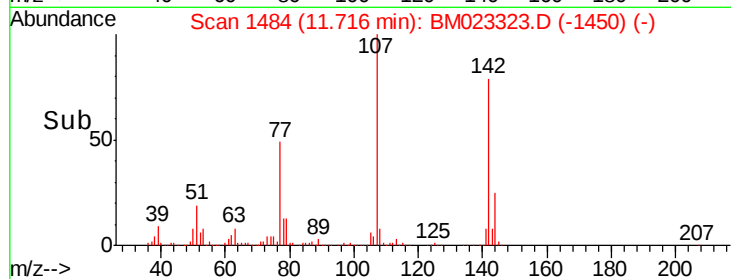
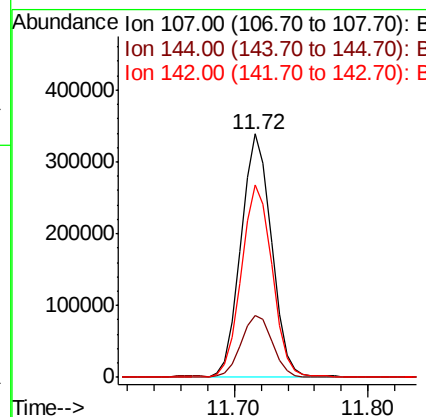
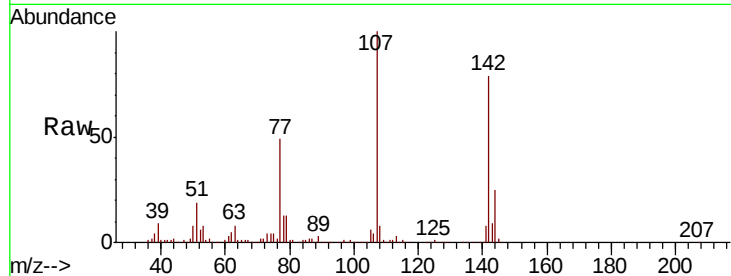
#33
 4-Chloro-3-methylphenol
 Concen: 20.715 ng/ul
 RT: 11.72 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: BM023323.D
 Acq: 22 Oct 2019 17:45

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ6MSD

Tot Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.0	30.0
142	79.3	62.5	93.7

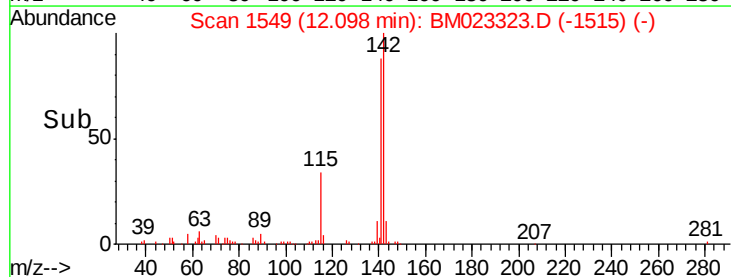
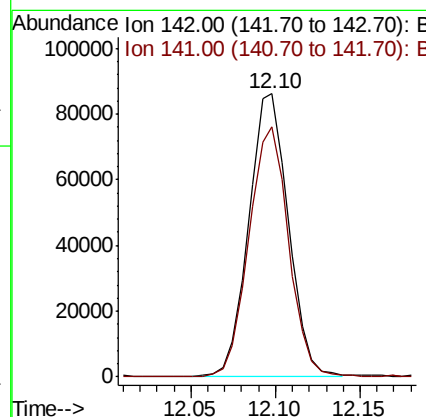
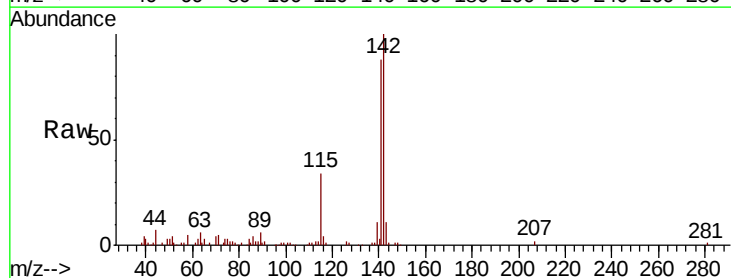
Manual Integrations
 APPROVED

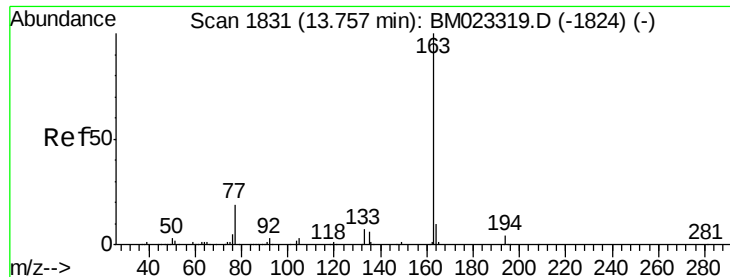
mohammad
 10/24/2019 8:08:38 AM



#34
 2-Methylnaphthalene
 Concen: 2.589 ng/ul
 RT: 12.10 min Scan# 1549
 Delta R.T. -0.00 min
 Lab File: BM023323.D
 Acq: 22 Oct 2019 17:45

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.4	107.0





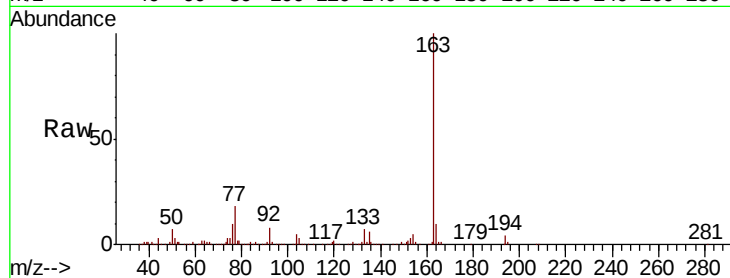
#45
Dimethylphthalate
Concen: 4.513 ng/ul
RT: 13.76 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Instrument :
BNA_M
ClientSampleId :
ETOJ6MSD

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.1	7.8	11.6

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM

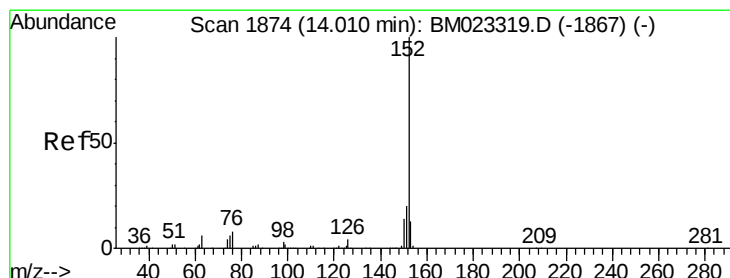
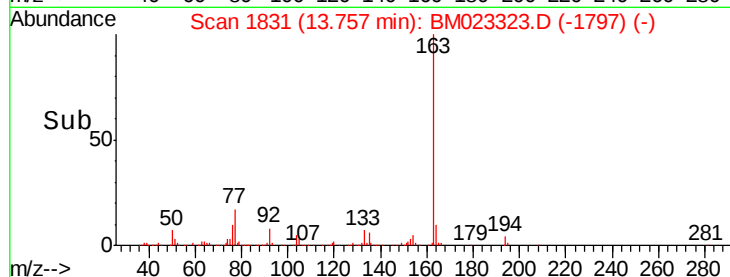
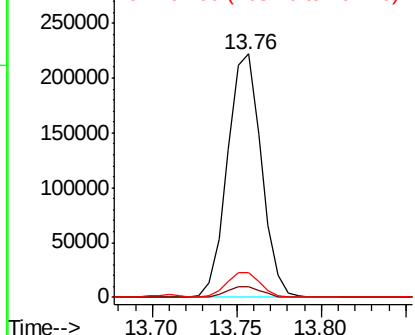


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#48
Acenaphthylene
Concen: 20.708 ng/ul
RT: 14.01 min Scan# 1874
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

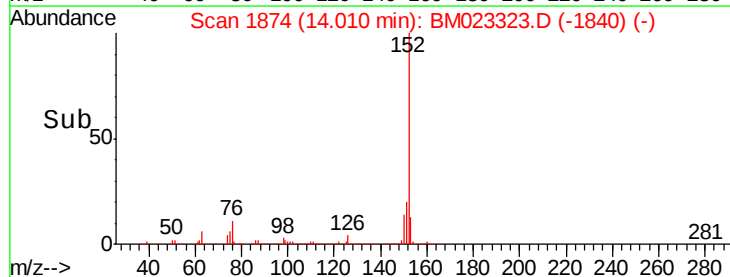
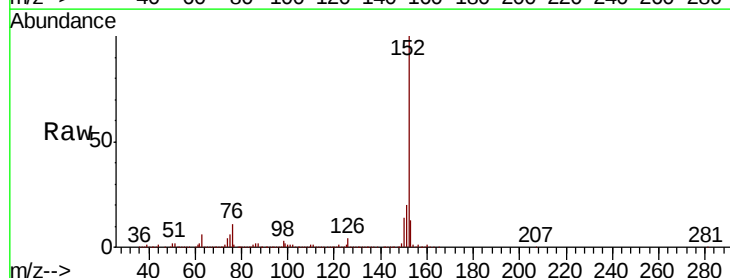
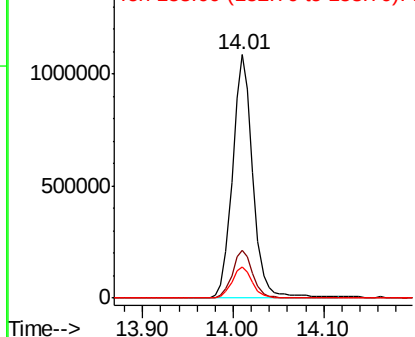
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.9	23.9
153	12.9	10.3	15.5

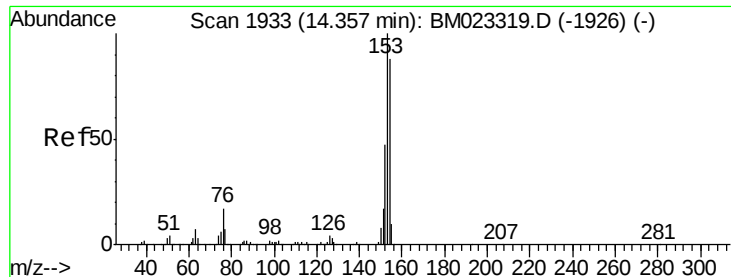
Abundance

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: 27.127 ng/ul

RT: 14.36 min Scan# 1933

Delta R.T. -0.00 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

ClientSampleId :

ETOJ6MSD

Tot Ion:153 Resp: 1548644

Ion Ratio Lower Upper

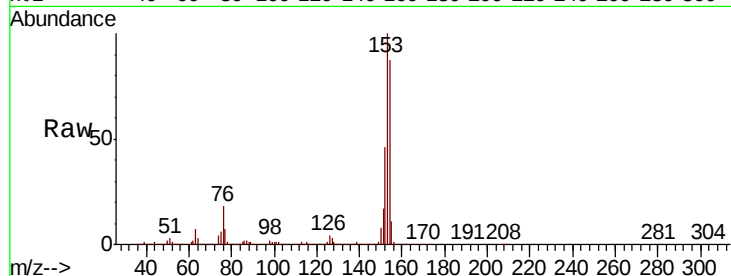
153 100

152 46.4 37.4 56.0

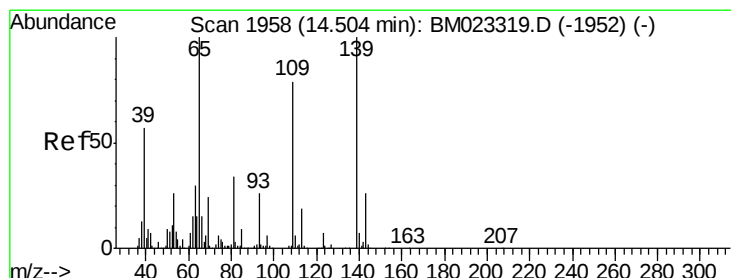
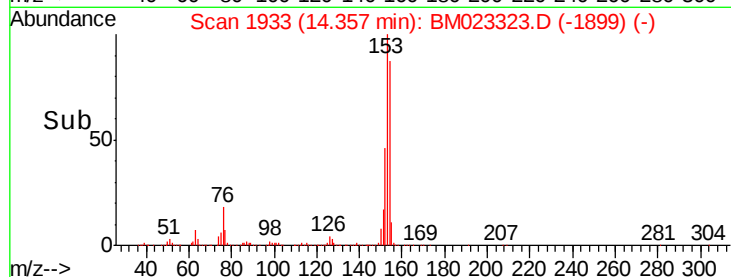
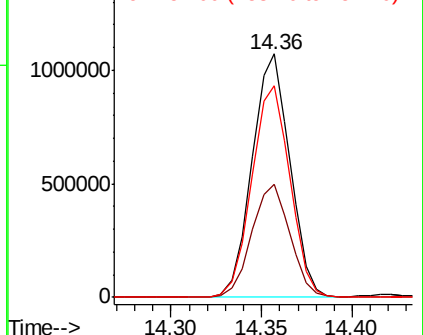
154 86.8 70.7 106.1

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM



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

4-Nitrophenol

Concen: 19.903 ng/ul

RT: 14.50 min Scan# 1958

Delta R.T. -0.00 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

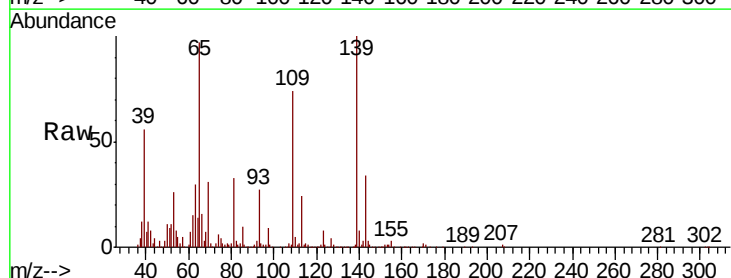
Tgt Ion:109 Resp: 198423

Ion Ratio Lower Upper

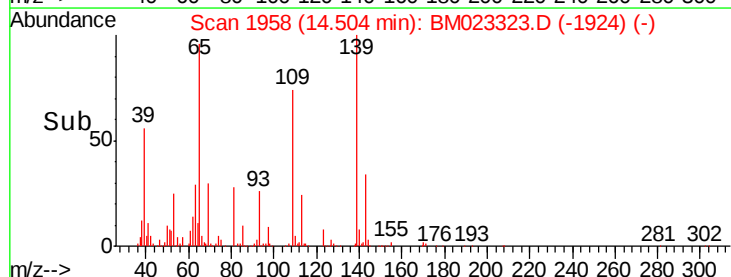
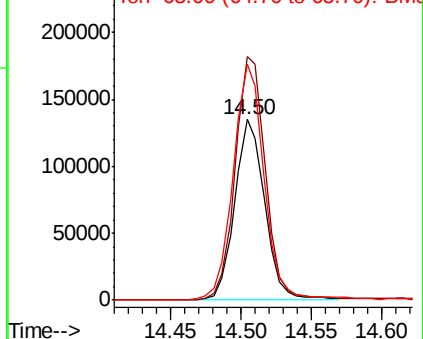
109 100

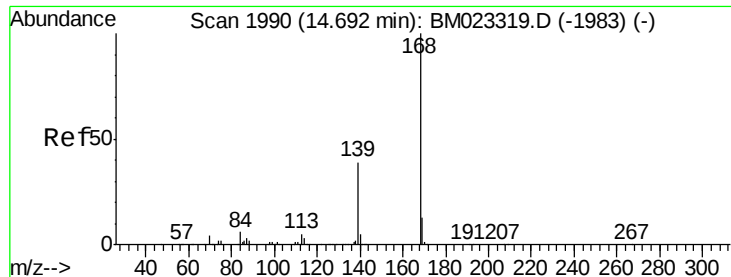
139 134.7 101.5 152.3

65 130.4 102.5 153.7



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BMC





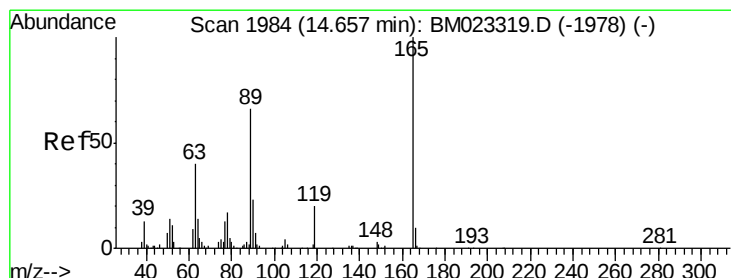
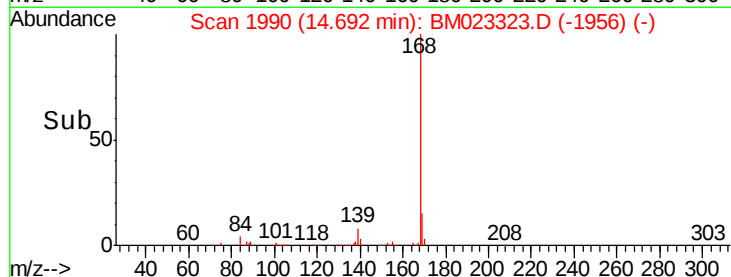
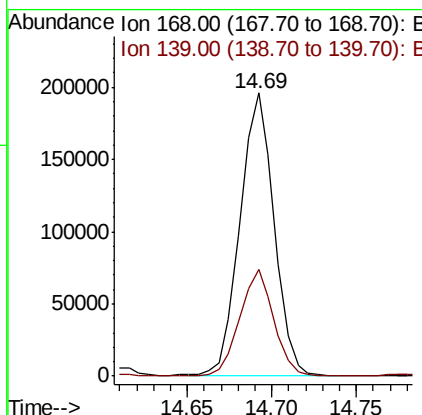
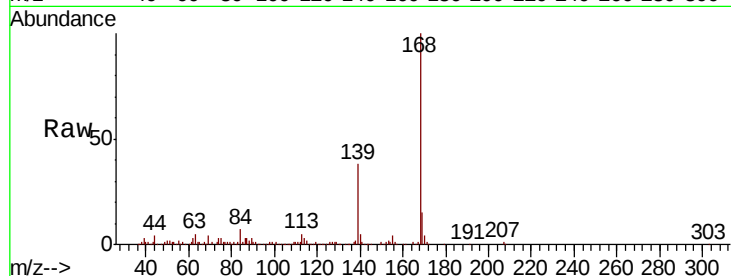
#54
Dibenzenofuran
Concen: 3.399 ng/ul
RT: 14.69 min Scan# 1990
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Instrument :
BNA_M
ClientSampleId :
ETOJ6MSD

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.7	31.0	46.4

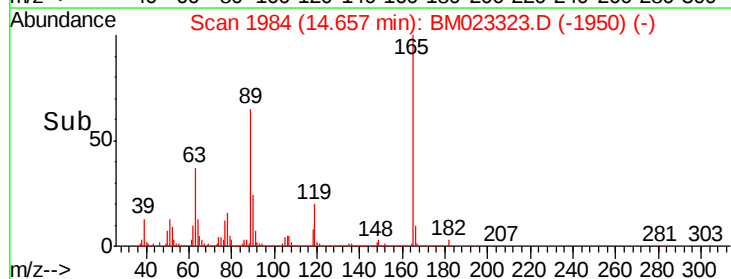
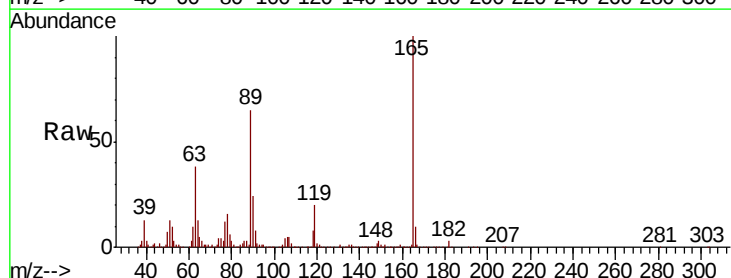
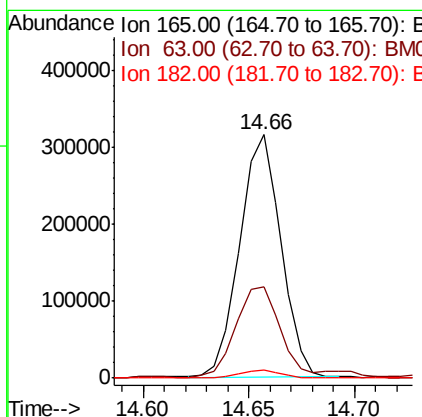
Manual Integrations
APPROVED

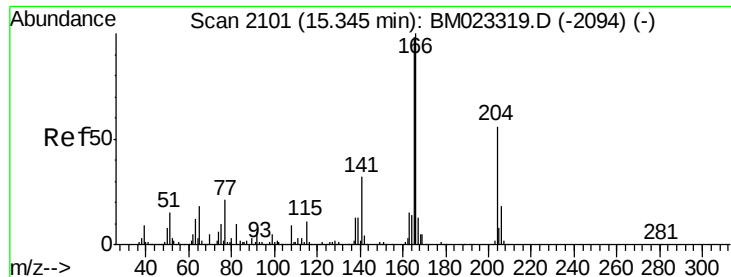
mohammad
10/24/2019 8:08:38 AM



#55
2,4-Dinitrotoluene
Concen: 27.240 ng/ul
RT: 14.66 min Scan# 1984
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Tgt Ion	Ratio	Lower	Upper
165	100		
63	37.6	32.1	48.1
182	3.5	2.2	3.4#





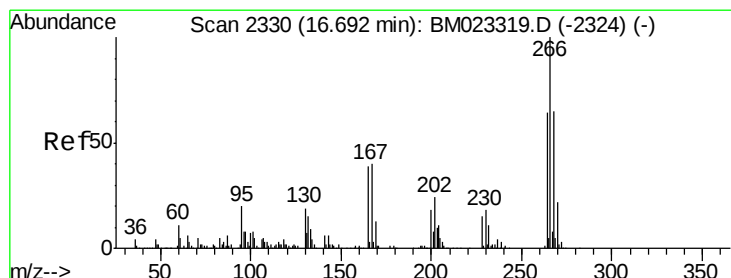
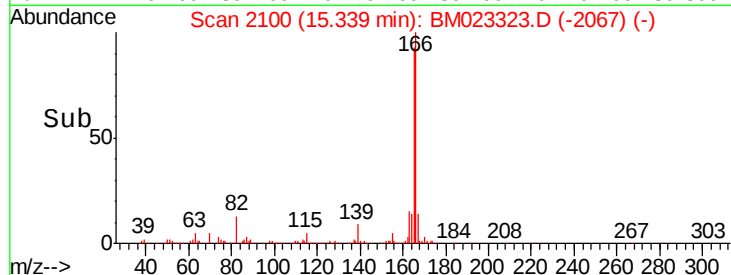
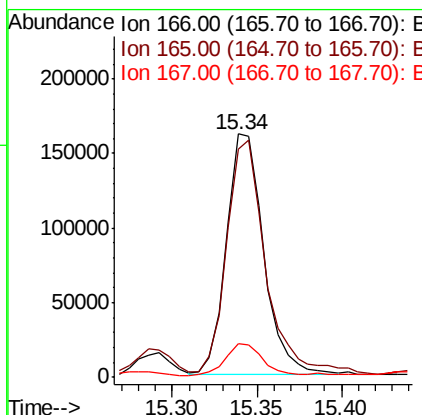
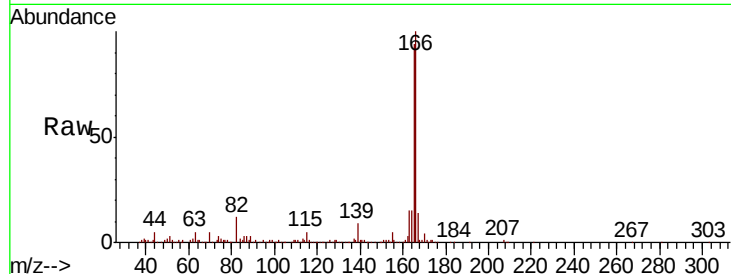
#59
Fluorene
 Concen: 3.731 ng/ul
 RT: 15.34 min Scan# 2100
 Delta R.T. -0.01 min
 Lab File: BM023323.D
 Acq: 22 Oct 2019 17:45

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ6MSD

Tot Ion	Ratio	Resp	Lower	Upper
166	100	248097		
165	93.6		78.3	117.5
167	14.0		10.7	16.1

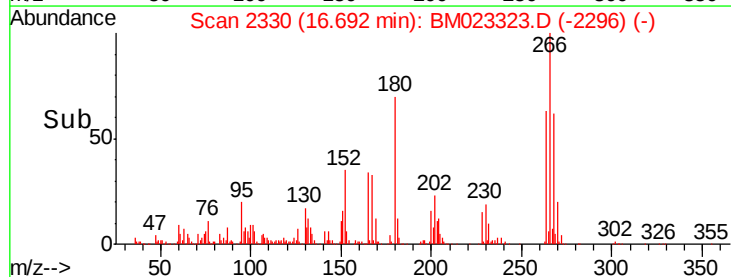
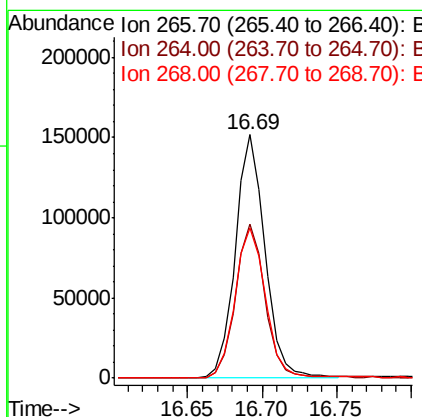
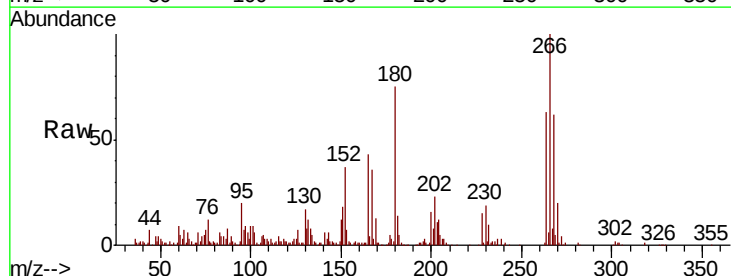
Manual Integrations
 APPROVED

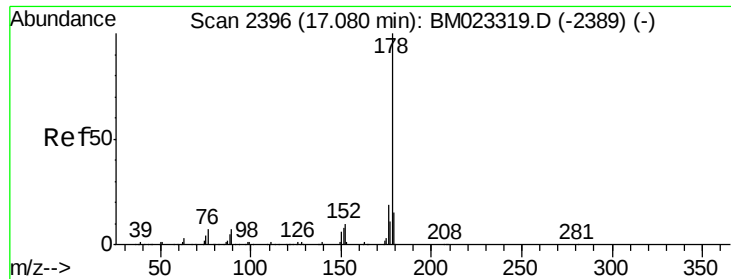
mohammad
 10/24/2019 8:08:38 AM



#69
Pentachlorophenol
 Concen: 14.670 ng/ul
 RT: 16.69 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: BM023323.D
 Acq: 22 Oct 2019 17:45

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	210759		
264	63.0		51.0	76.4
268	61.8		52.2	78.2





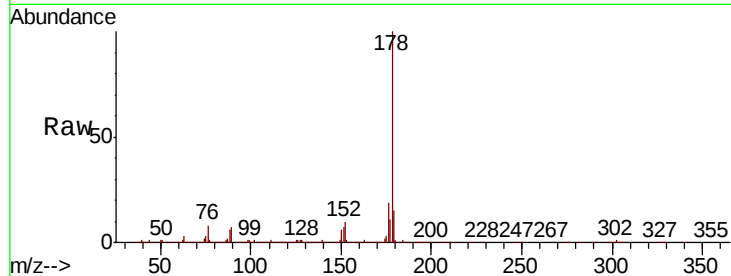
#70
Phenanthrene
Concen: 18.926 ng/ul
RT: 17.08 min Scan# 2396
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Instrument :
BNA_M
ClientSampleId :
ETOJ6MSD

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.0	11.7	17.5
176	18.8	15.0	22.4

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM

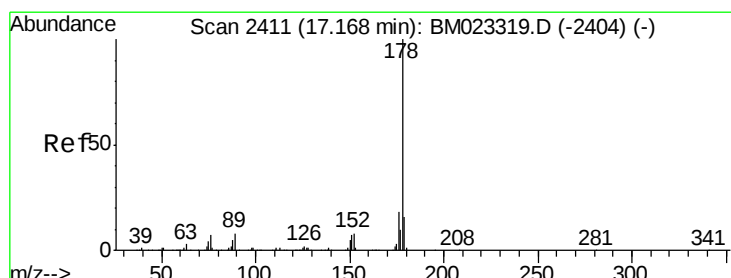
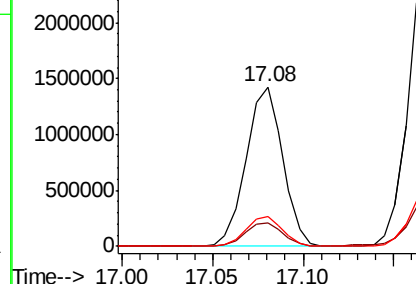
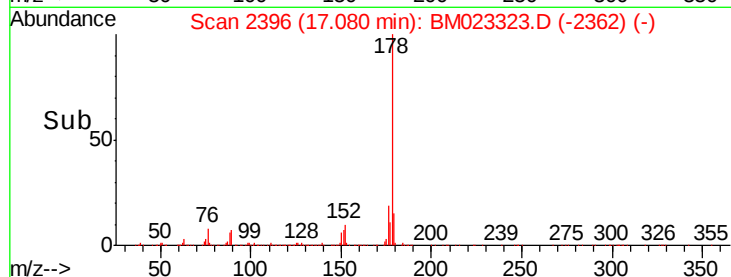


Abundance

Ion 178.00 (177.70 to 178.70): E

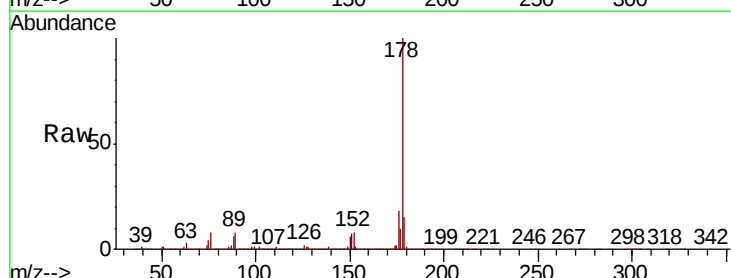
Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72
Anthracene
Concen: 38.541 ng/ul
RT: 17.17 min Scan# 2411
Delta R.T. -0.00 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.5	18.7
176	18.2	14.8	22.2

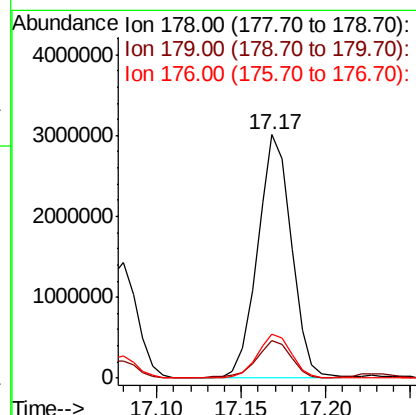
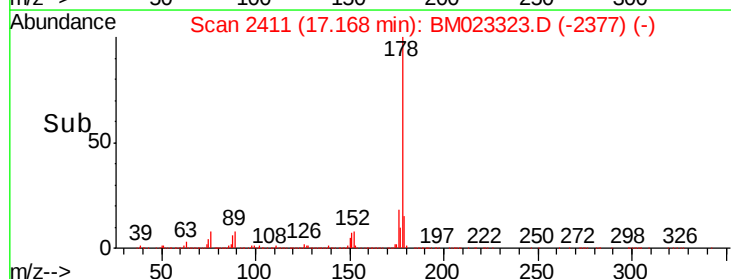


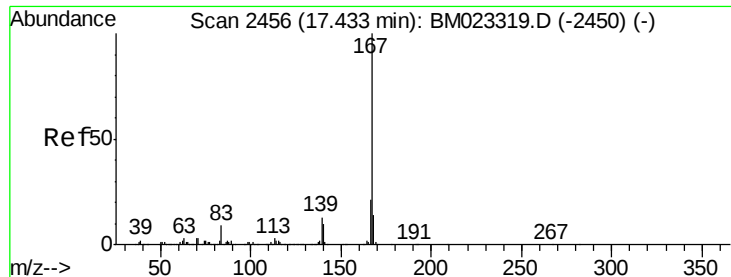
Abundance

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





#75

Carbazole

Concen: 7.169 ng/ul

RT: 17.44 min Scan# 2457

Delta R.T. 0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

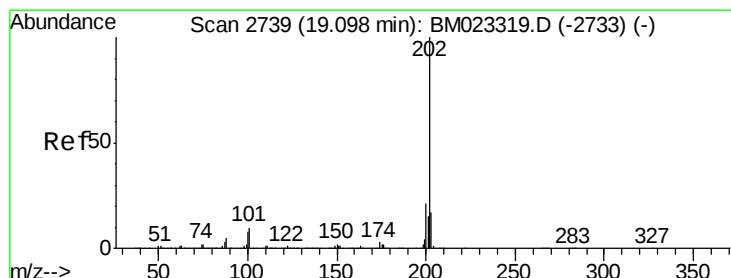
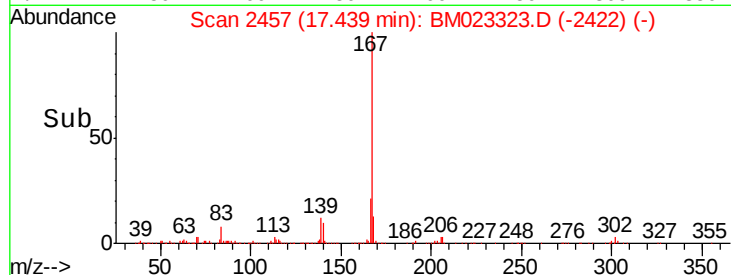
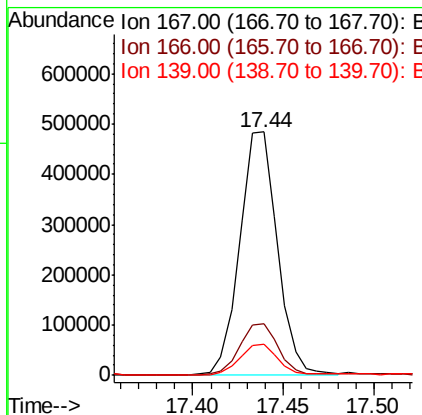
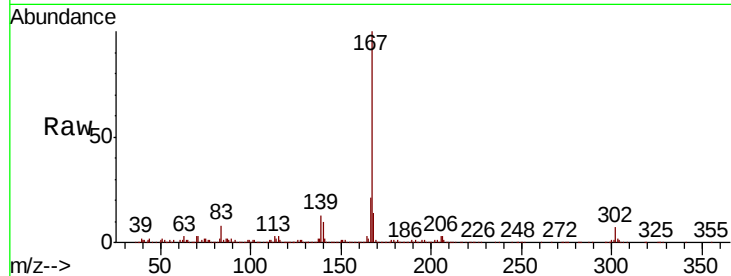
ClientSampleId :

ETOJ6MSD

Tot Ion:	167	Resp:	695783
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.0	25.6
139	12.7	10.5	15.7

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM



#77

Fluoranthene

Concen: 74.566 ng/ul

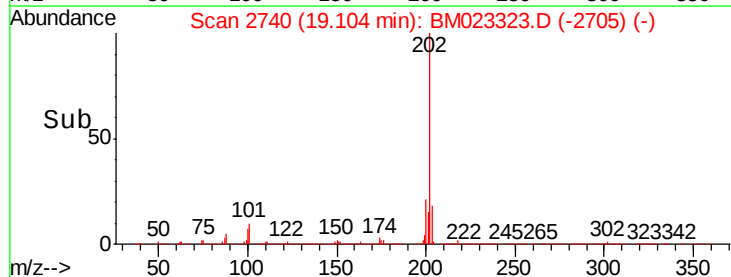
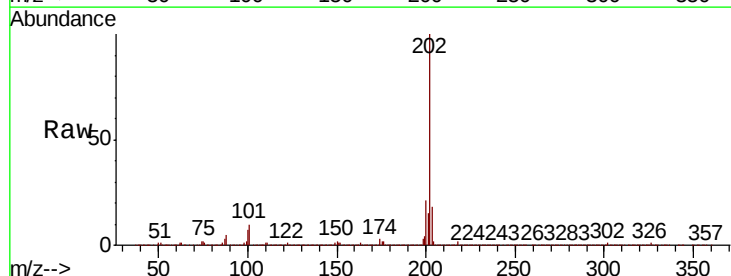
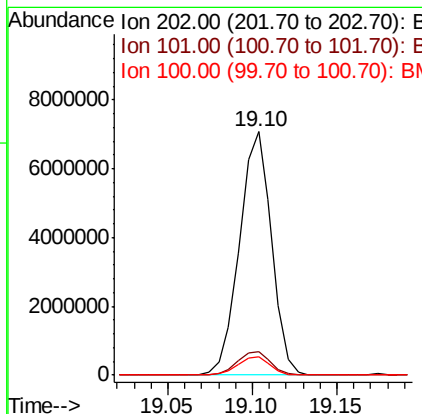
RT: 19.10 min Scan# 2740

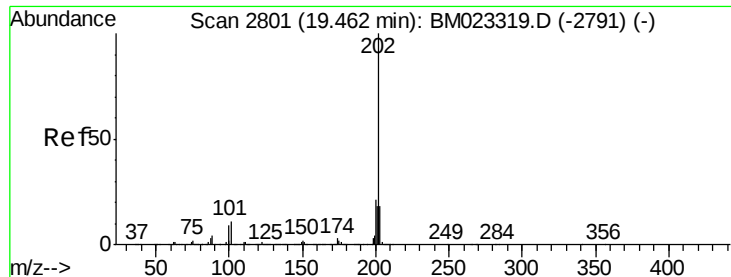
Delta R.T. 0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Tgt Ion:	202	Resp:	9323006
Ion Ratio	Lower	Upper	
202	100		
101	9.7	8.2	12.4
100	7.4	6.1	9.1





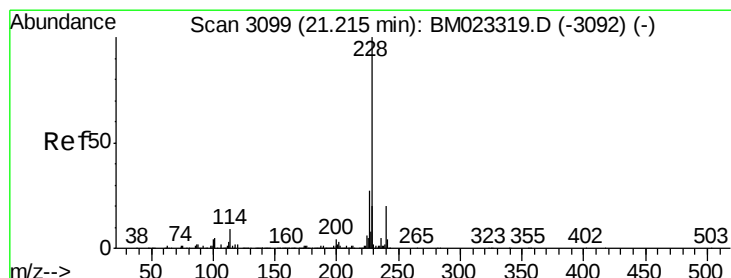
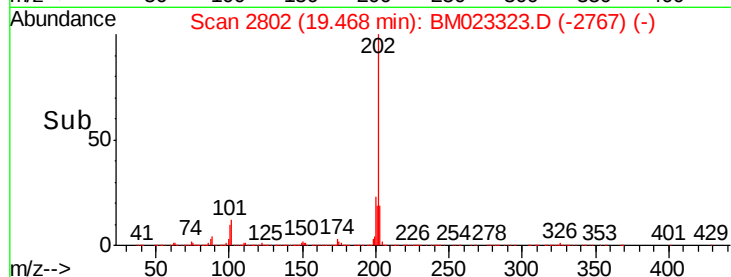
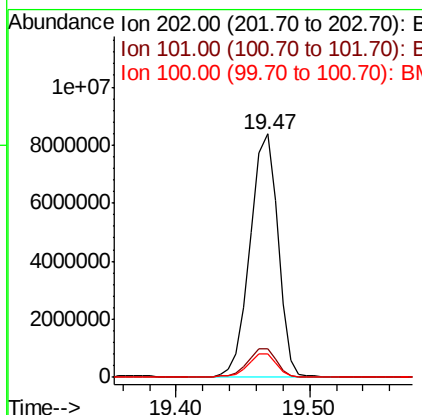
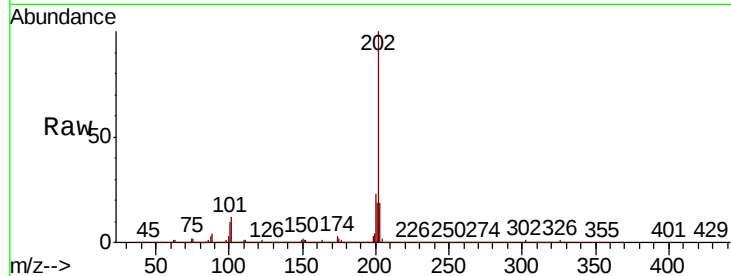
#80
Pvrene
Concen: 95.828 ng/ul
RT: 19.47 min Scan# 2802
Delta R.T. 0.01 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Instrument :
BNA_M
ClientSampled :
ETOJ6MSD

Tot Ion:202 Resp:12028307
Ion Ratio Lower Upper
202 100
101 11.9 9.0 13.6
100 9.8 7.5 11.3

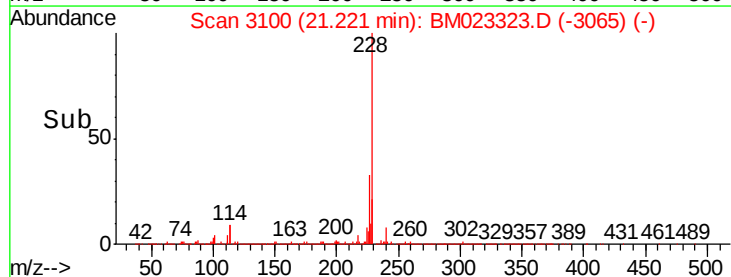
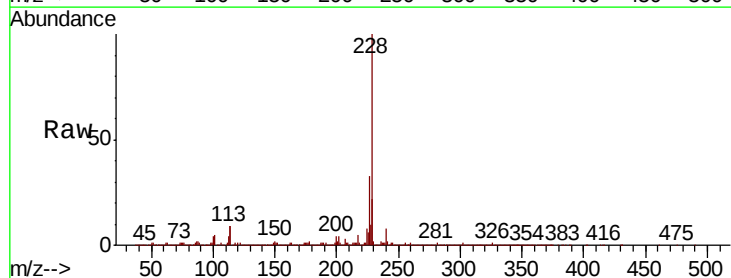
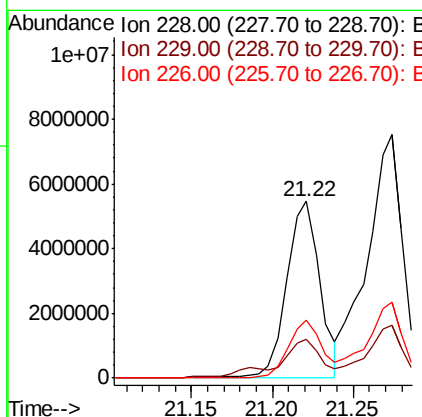
Manual Integrations
APPROVED

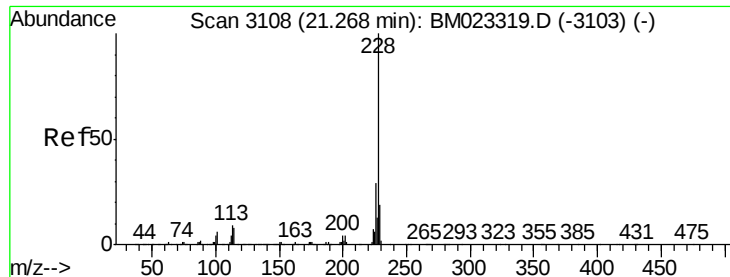
mohammad
10/24/2019 8:08:38 AM



#83
Benzo(a)anthracene
Concen: 57.795 ng/ul m
RT: 21.22 min Scan# 3100
Delta R.T. 0.01 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Tgt Ion:228 Resp: 7846420
Ion Ratio Lower Upper
228 100
229 21.6 15.8 23.8
226 32.8 21.5 32.3#





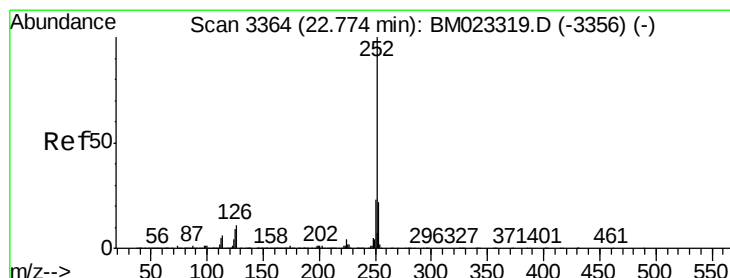
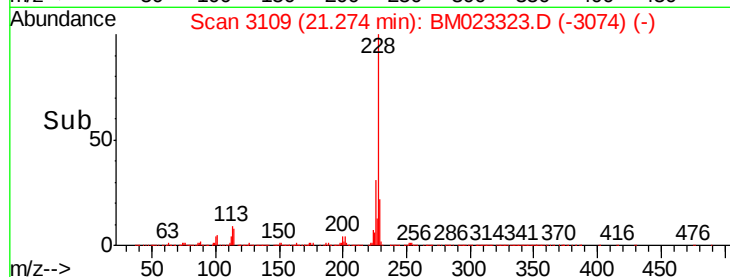
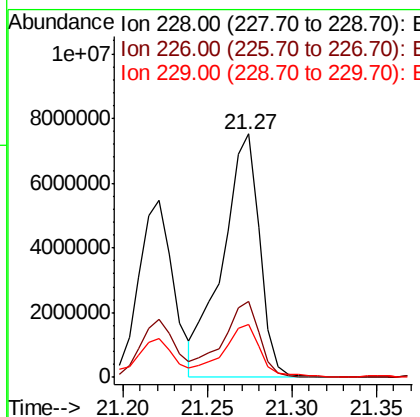
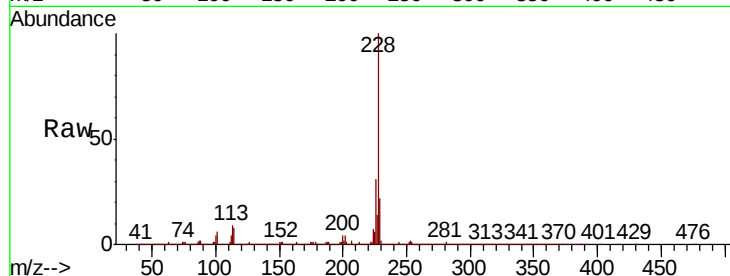
#85
Chrysene
Concen: 90.414 ng/ul
RT: 21.27 min Scan# 3109
Delta R.T. 0.01 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Instrument :
BNA_M
ClientSampleId :
ETOJ6MSD

Tot Ion:228 Resp:11397612
Ion Ratio Lower Upper
228 100
226 31.0 23.4 35.0
229 21.9 15.5 23.3

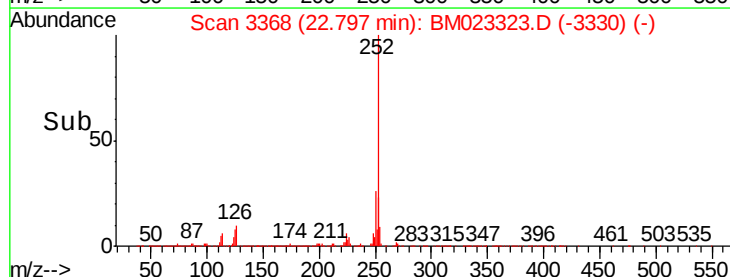
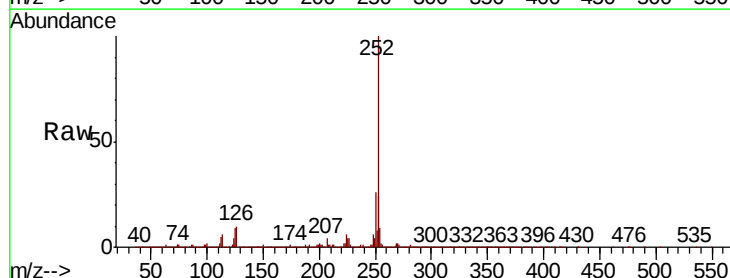
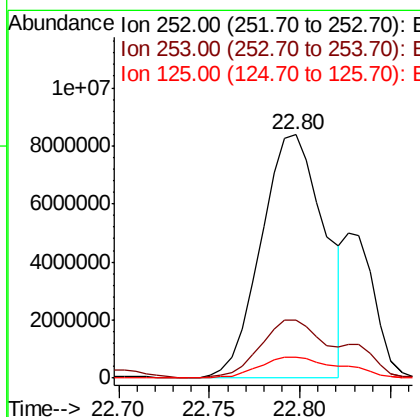
Manual Integrations
APPROVED

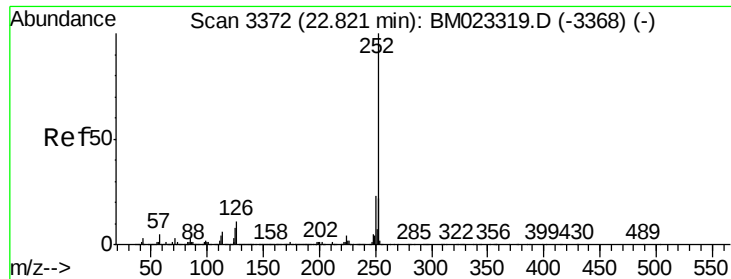
mohammad
10/24/2019 8:08:38 AM



#88
Benzo(b)fluoranthene
Concen: 132.583 ng/ul
RT: 22.80 min Scan# 3368
Delta R.T. 0.02 min
Lab File: BM023323.D
Acq: 22 Oct 2019 17:45

Tgt Ion:252 Resp:20383672
Ion Ratio Lower Upper
252 100
253 23.7 17.3 25.9
125 8.6 7.0 10.4





#89

Benzo(k)fluoranthene

Concen: 38.939 ng/ul m

RT: 22.83 min Scan# 3373

Delta R.T. 0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

ClientSampleId :

ETOJ6MSD

Tot Ion:252 Resp: 5748444

Ion Ratio Lower Upper

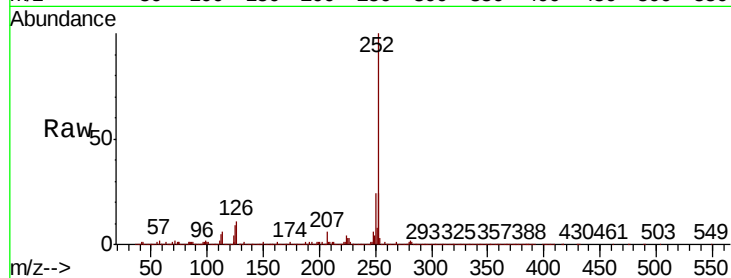
252 100

253 23.5 17.5 26.3

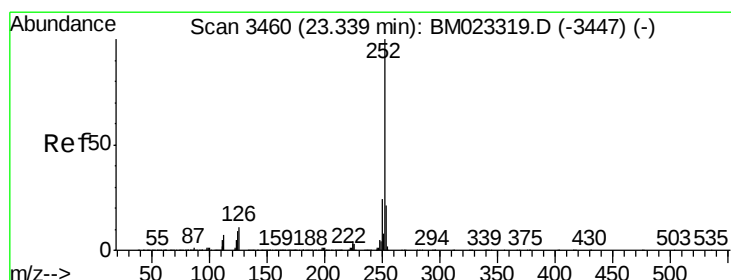
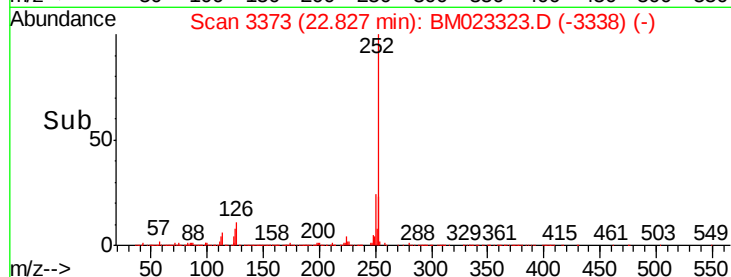
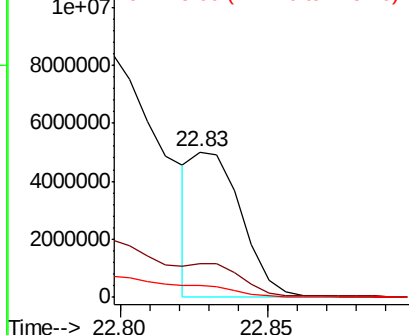
125 8.6 6.6 9.8

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:38 AM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 66.909 ng/ul

RT: 23.35 min Scan# 3462

Delta R.T. 0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Tgt Ion:252 Resp: 9869187

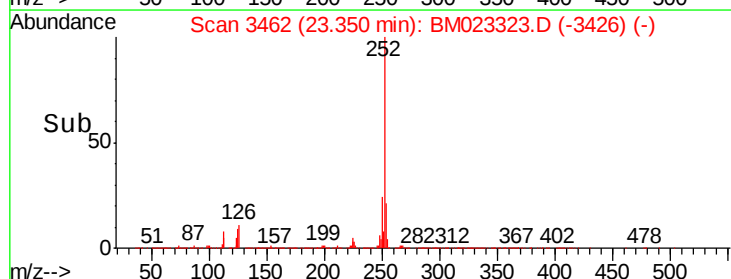
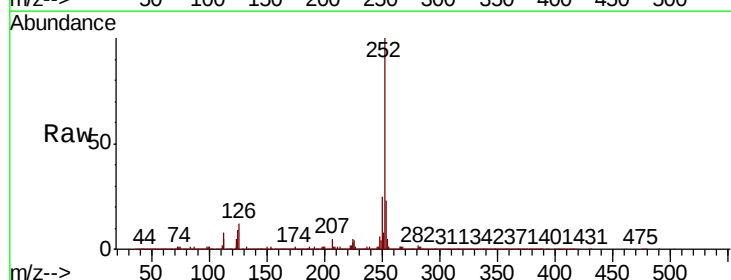
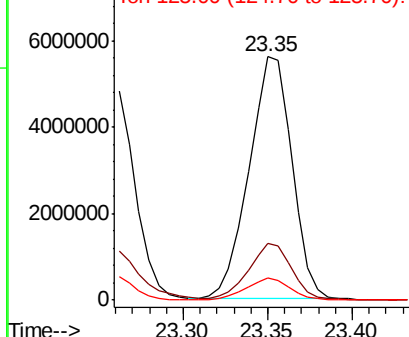
Ion Ratio Lower Upper

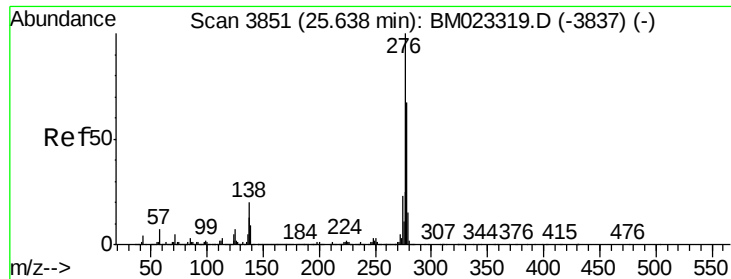
252 100

253 23.2 17.0 25.6

125 8.9 7.1 10.7

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 53.673 ng/ul m

RT: 25.66 min Scan# 3855

Delta R.T. 0.02 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

ClientSampleId :

ETOJ6MSD

Tot Ion:276 Resp: 9418255

Ion Ratio Lower Upper

276 100

138 16.3 15.8 23.6

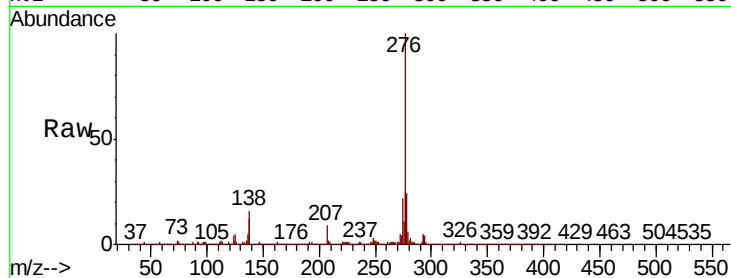
277 25.0 19.8 29.8

Manual Integrations

APPROVED

mohammad

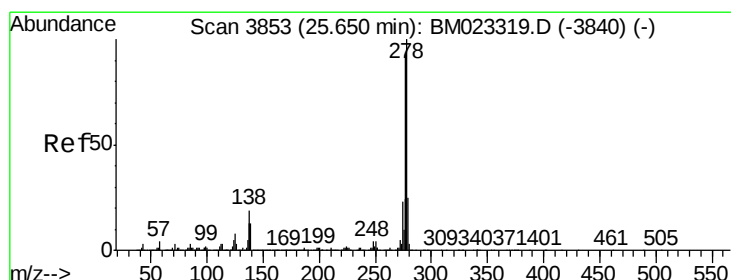
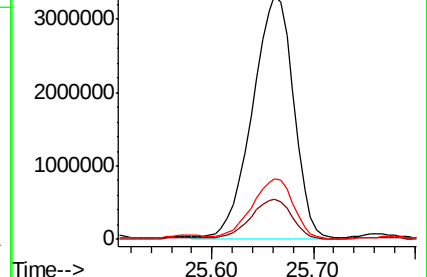
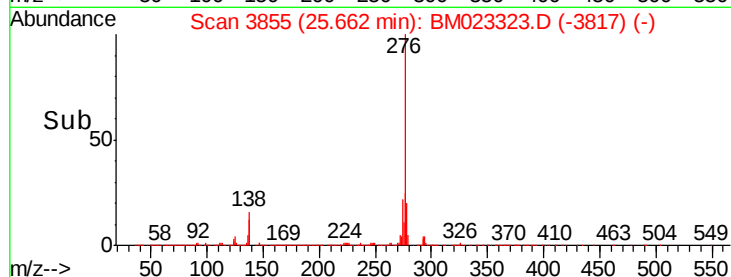
10/24/2019 8:08:38 AM



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



#93

Dibenzo(a,h)anthracene

Concen: 17.150 ng/ul m

RT: 25.66 min Scan# 3855

Delta R.T. 0.01 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

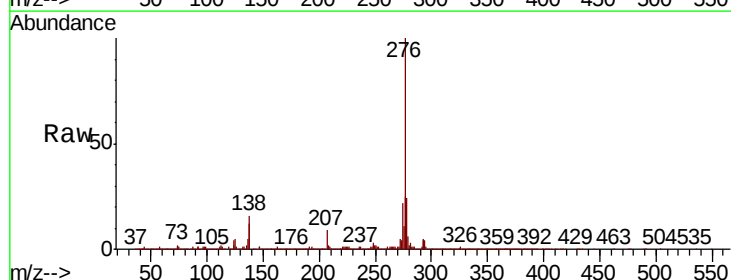
Tgt Ion:278 Resp: 2516252

Ion Ratio Lower Upper

278 100

139 0.0 10.5 15.7#

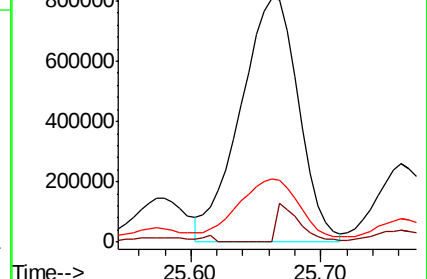
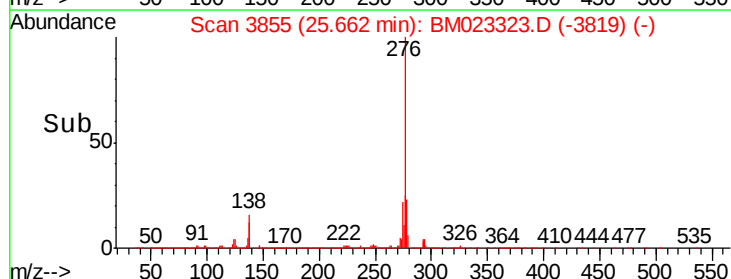
279 26.0 19.7 29.5

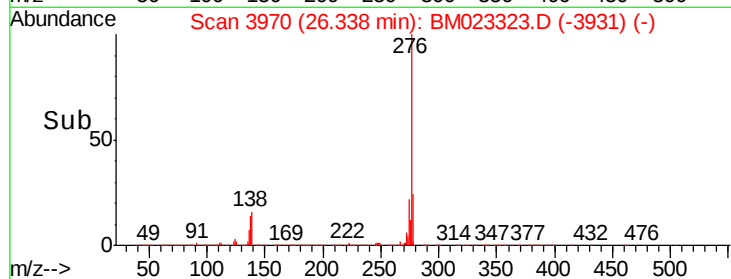
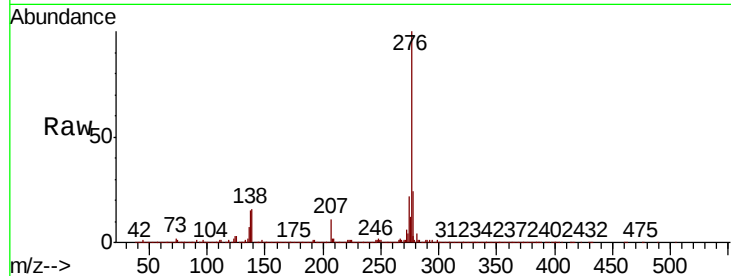
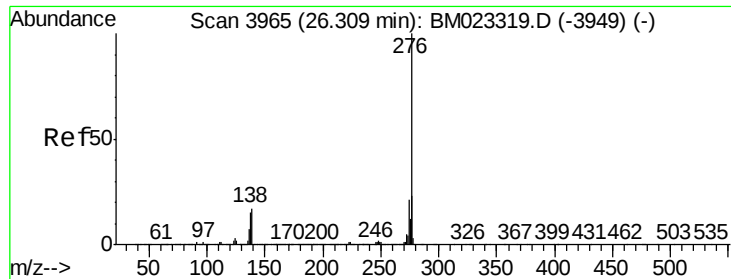


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(a,h,i)perylene

Concen: 60.364 ng/ul m

RT: 26.34 min Scan# 3970

Delta R.T. 0.03 min

Lab File: BM023323.D

Acq: 22 Oct 2019 17:45

Instrument :

BNA_M

ClientSampleId :

ETOJ6MSD

Tot Ion:276 Resp: 8720982

Ion Ratio Lower Upper

276 100

138 16.4 13.9 20.9

277 24.2 18.7 28.1

Manual Integrations

APPROVED

mohammad

10/24/2019 8:08:38 AM

