

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\
 Data File : BM023328.D
 Acq On : 22 Oct 2019 20:44
 Operator : JU
 Sample : K5354-11
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BFB86

Manual Integrations
 APPROVED

mohammad
 10/24/2019 8:08:48 AM

Quant Time: Oct 23 02:49:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Oct 23 01:39:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	423909	20.00	ng/ul	0.00
18) Naphthalene-d8	10.43	136	1690362	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.29	164	1069961	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.04	188	2138088	20.00	ng/ul	0.00
78) Chrysene-d12	21.24	240	2240996	20.00	ng/ul	0.00
86) Perylene-d12	23.45	264	2772418m	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.17	96	33184	3.45	ng/uL	0.00
5) Phenol-d5	6.82	99	634713	17.19	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.99	67	344666	16.50	ng/ul	0.00
9) 2-Chlorophenol-d4	7.18	132	510858	18.08	ng/ul	0.00
13) 4-Methylphenol-d8	8.35	113	521365	17.58	ng/ul	0.00
19) Nitrobenzene-d5	8.79	128	243035	21.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.51	143	275086	25.26	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.05	165	542087	19.57	ng/ul	0.00
29) 4-Chloroaniline-d4	10.56	131	85399	2.53	ng/ul	0.00
44) Dimethylphthalate-d6	13.71	166	1638043	19.98	ng/ul	0.00
47) Acenaphthylene-d8	13.98	160	1944454	20.22	ng/ul	0.00
52) 4-Nitrophenol-d4	14.49	143	245986	18.53	ng/ul	0.00
58) Fluorene-d10	15.29	176	1437257	20.57	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.41	200	139880	16.50	ng/ul	0.00
71) Anthracene-d10	17.14	188	2226111	21.59	ng/ul	0.00
79) Pyrene-d10	19.44	212	2405696	22.17	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.31	264	2950872	21.00	ng/ul	0.02

Target Compounds

					Ovalue
4) Benzaldehyde	6.80	77	25923	1.069 ng/ul#	48
6) Phenol	6.85	94	65432	1.719 ng/ul	92
28) Naphthalene	10.47	128	547533	6.267 ng/ul	99
34) 2-Methylnaphthalene	12.10	142	218666	3.363 ng/ul	96
41) 1,1'-Biphenyl	13.12	154	100477	1.234 ng/ul	100
45) Dimethylphthalate	13.76	163	720682	8.781 ng/ul	99
48) Acenaphthylene	14.01	152	2285564	23.244 ng/ul	99
50) Acenaphthene	14.36	153	367915	5.373 ng/ul	97
54) Dibenzofuran	14.69	168	105560	1.086 ng/ul	96
59) Fluorene	15.34	166	315688m	3.959 ng/ul	
70) Phenanthrene	17.08	178	2951781	24.600 ng/ul	98
72) Anthracene	17.17	178	1605127	12.945 ng/ul	99
77) Fluoranthene	19.10	202	7024299	49.223 ng/ul	99
80) Pyrene	19.47	202	10108429	72.003 ng/ul	99
83) Benzo(a)anthracene	21.22	228	7820765m	51.505 ng/ul	
84) Bis(2-ethylhexyl)phthalate	21.18	149	122722	1.581 ng/ul#	90
85) Chrysene	21.27	228	8044815	57.058 ng/ul	96
88) Benzo(b)fluoranthene	22.80	252	9519708	56.633 ng/ul	97
89) Benzo(k)fluoranthene	22.83	252	3310098m	20.508 ng/ul	
91) Benzo(a)pyrene	23.36	252	8563129	53.098 ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.67	276	6093233m	31.760 ng/ul	
93) Dibenz(a,h)anthracene	25.67	278	2029238m	12.650 ng/ul	
94) Benzo(g,h,i)perylene	26.36	276	6178046m	39.112 ng/ul	

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\
Data File : BM023328.D
Acq On : 22 Oct 2019 20:44
Operator : JU
Sample : K5354-11
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BFB86

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:48 AM

Quant Time: Oct 23 02:49:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 23 01:39:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

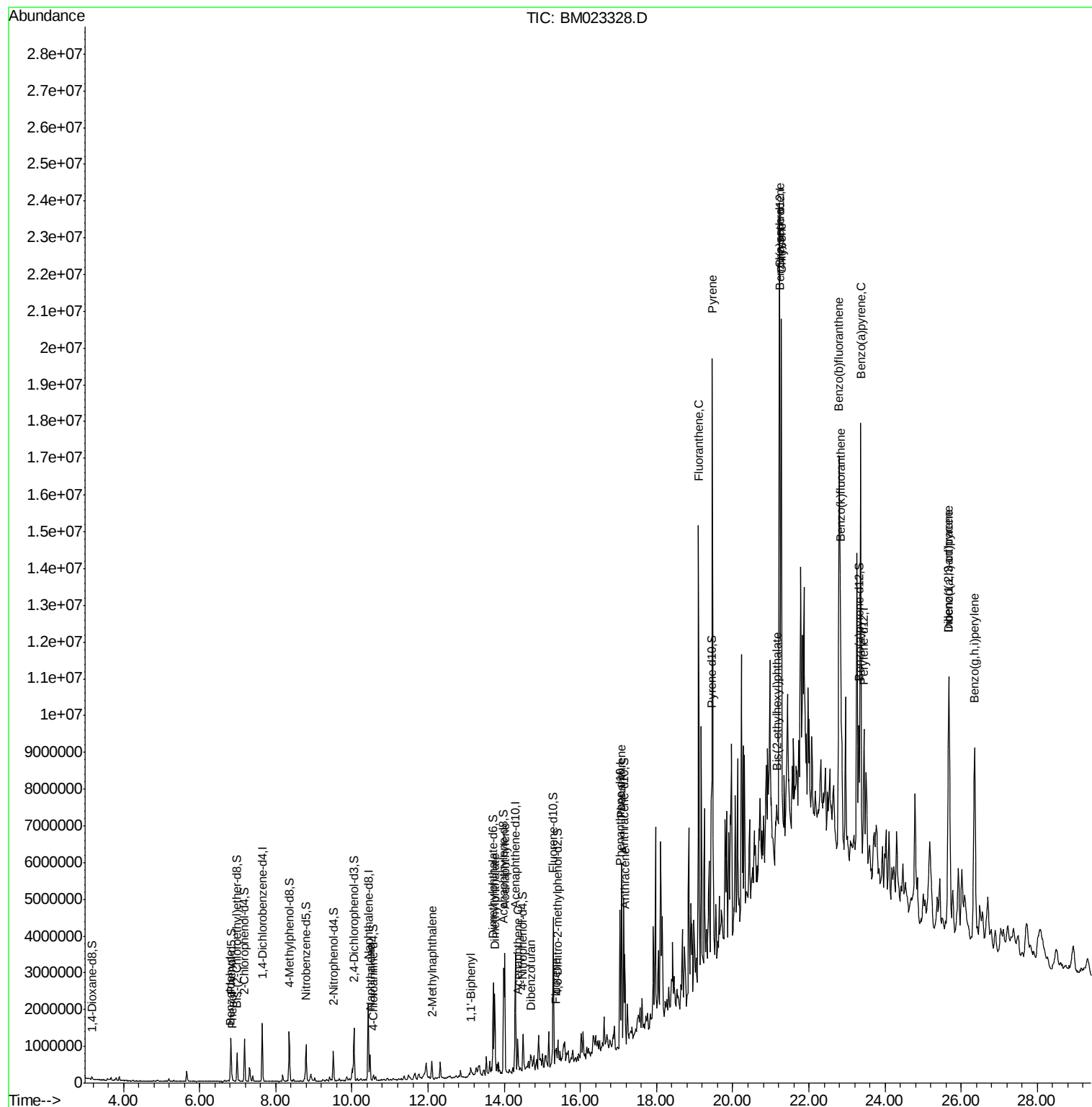
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM102219\
Data File : BM023328.D
Acq On : 22 Oct 2019 20:44
Operator : JU
Sample : K5354-11
Misc :
ALS Vial : 10 Sample Multiplier: 1

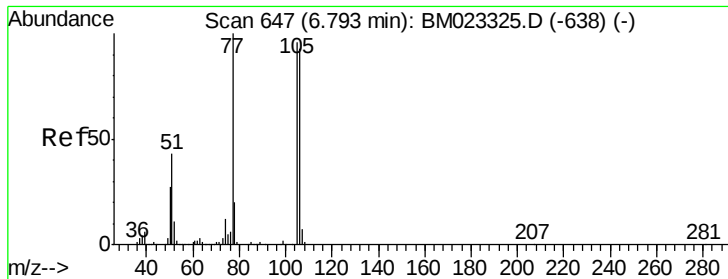
Instrument :
BNA_M
ClientSampleId :
BFB86

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:48 AM

Quant Time: Oct 23 02:49:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 23 01:39:41 2019
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.069 ng/ul

RT: 6.80 min Scan# 648

Delta R.T. 0.01 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Instrument :

BNA_M

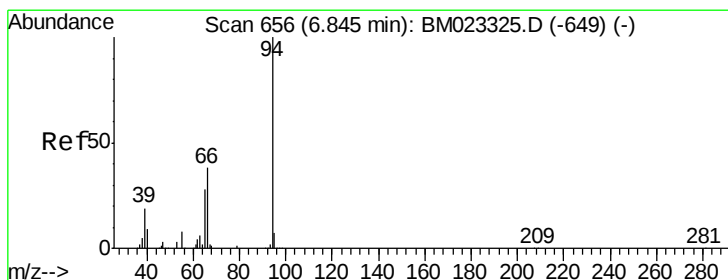
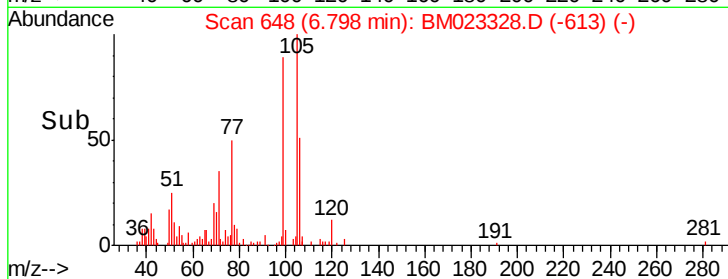
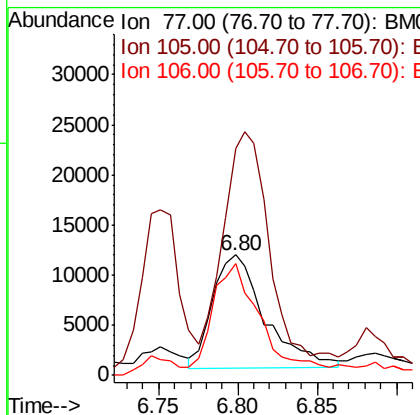
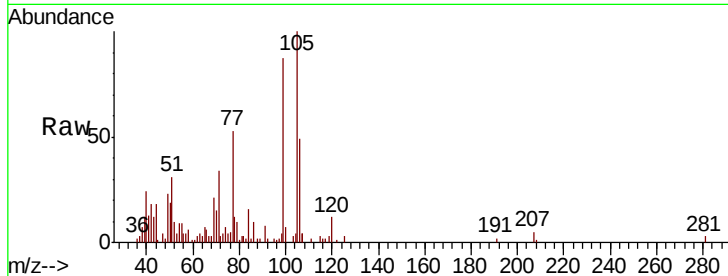
ClientSampleID :

BFB86

Tot Ion	Ratio	Lower	Upper
77	100		
105	188.6	74.9	112.3#
106	93.1	71.8	107.6

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:48 AM



#6

Phenol

Concen: 1.719 ng/ul

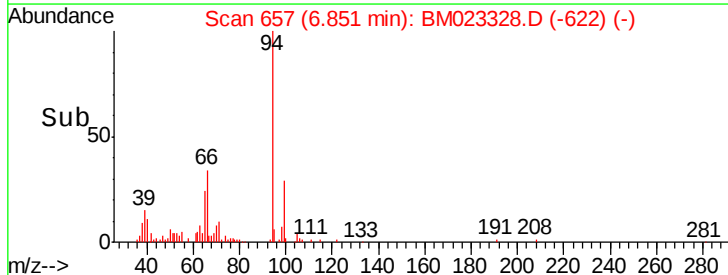
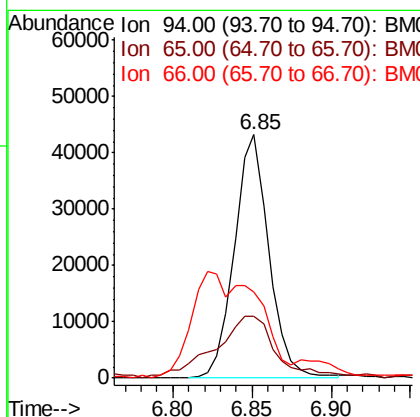
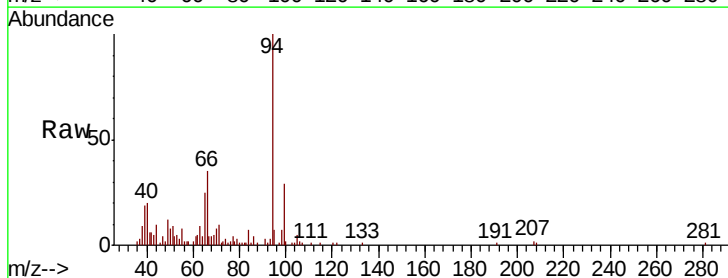
RT: 6.85 min Scan# 657

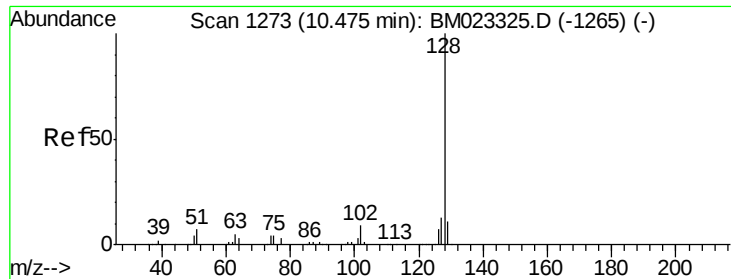
Delta R.T. 0.01 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Tgt Ion	Ratio	Lower	Upper
94	100		
65	25.3	23.2	34.8
66	35.2	32.9	49.3





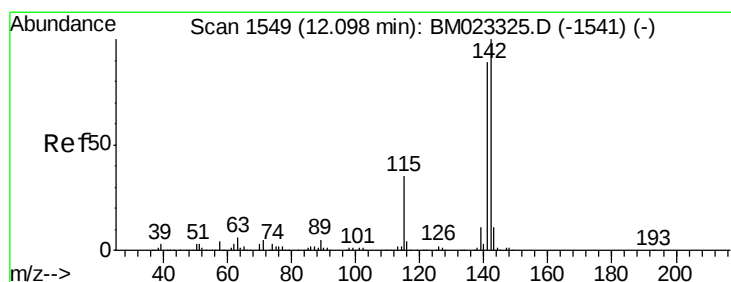
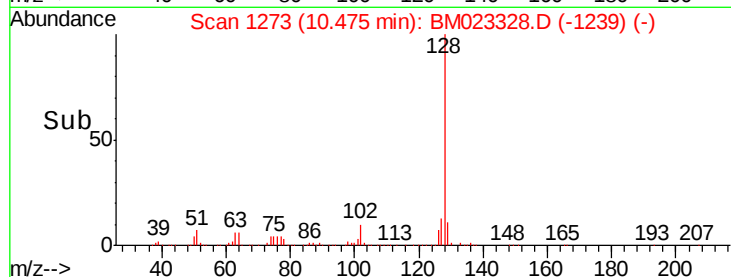
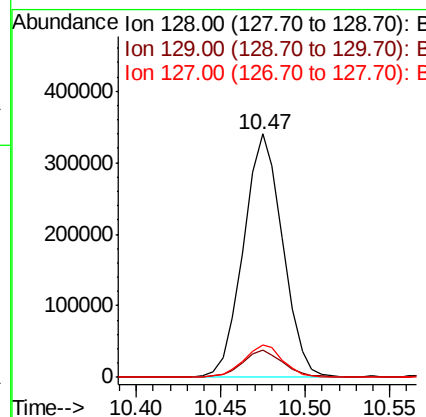
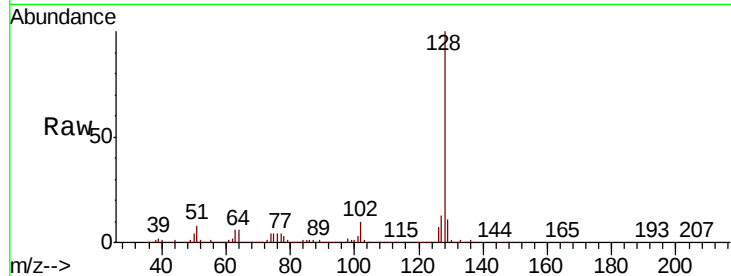
#28
Naphthalene
Concen: 6.267 ng/ul
RT: 10.47 min Scan# 1273
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Instrument :
BNA_M
ClientSampleId :
BFB86

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.3	10.2	15.4

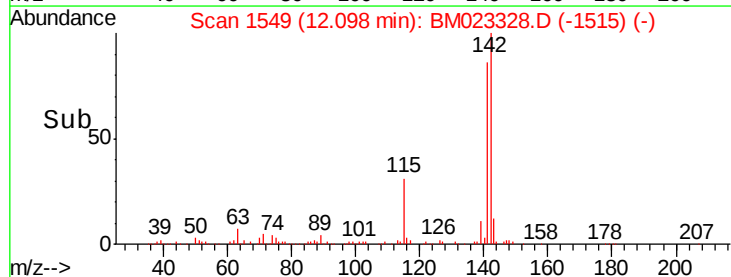
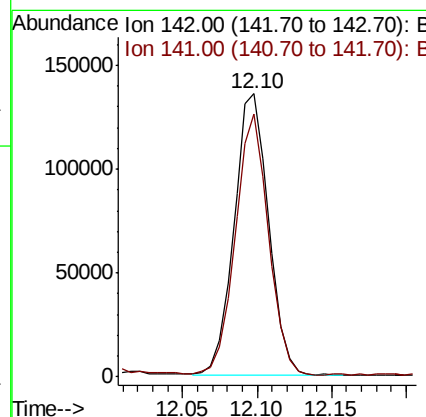
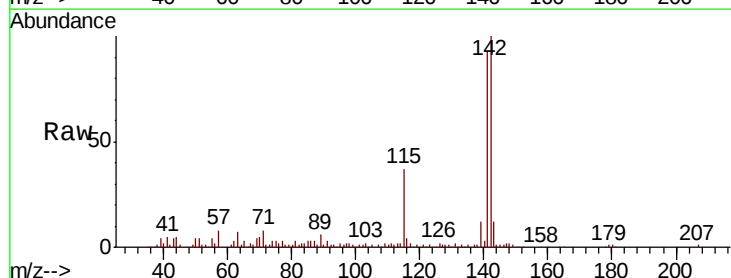
Manual Integrations
APPROVED

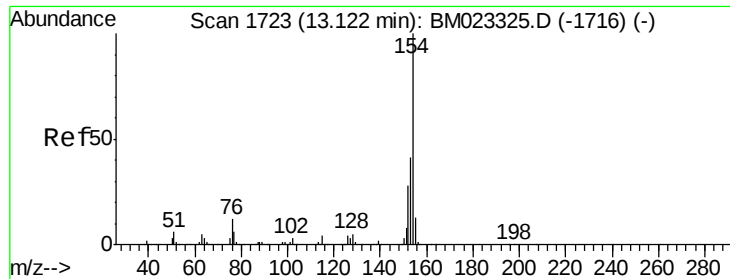
mohammad
10/24/2019 8:08:48 AM



#34
2-Methylnaphthalene
Concen: 3.363 ng/ul
RT: 12.10 min Scan# 1549
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.7	71.4	107.0





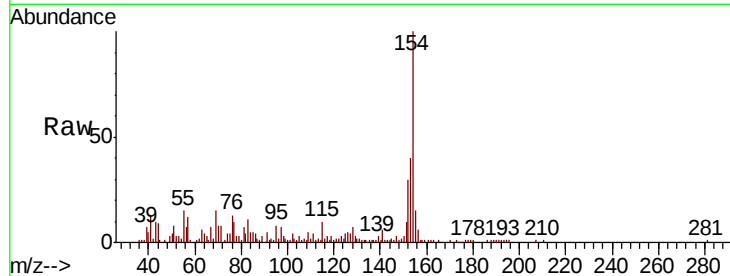
#41
1,1'-Biphenyl
Concen: 1.234 ng/ul
RT: 13.12 min Scan# 1723
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Instrument :
BNA_M
ClientSampleId :
BFB86

Tot Ion	Ratio	Resp	Lower	Upper
154	100	100477		
153	40.1		32.2	48.2
76	13.1		10.0	15.0

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:48 AM

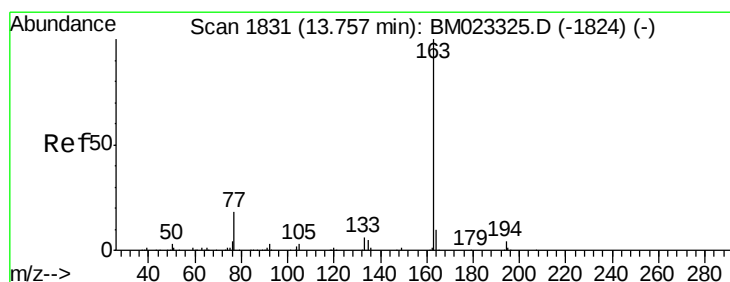
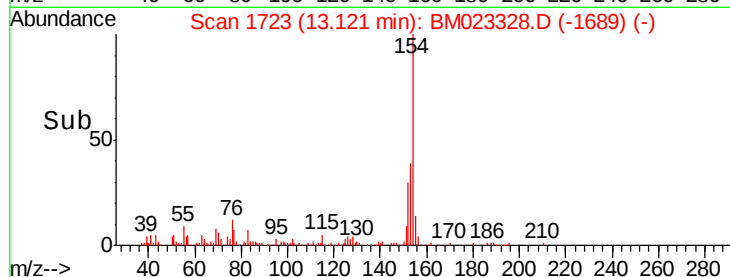
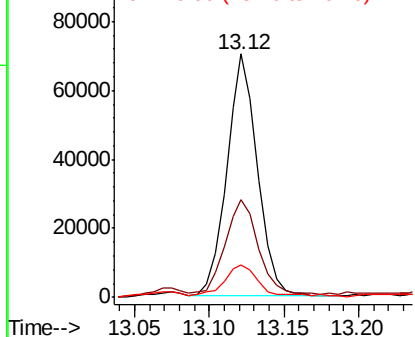


Abundance

Ion 154.00 (153.70 to 154.70): E

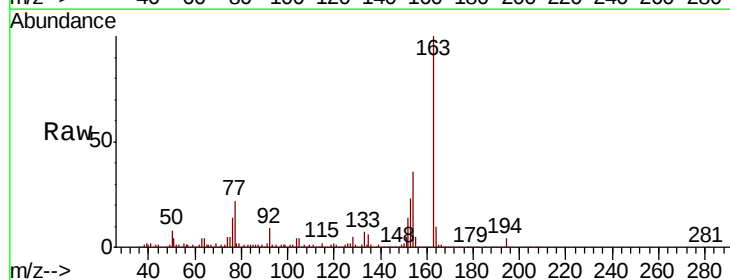
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM



#45
Dimethylphthalate
Concen: 8.781 ng/ul
RT: 13.76 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	720682		
194	4.5		3.4	5.2
164	10.1		7.8	11.6

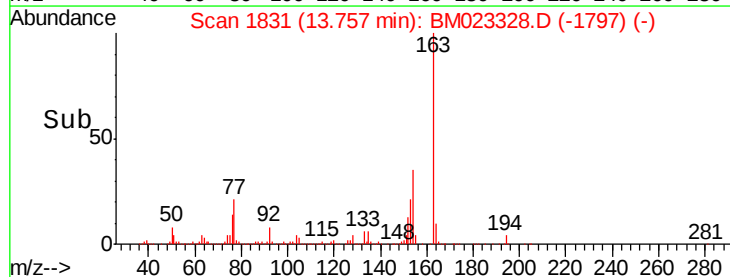
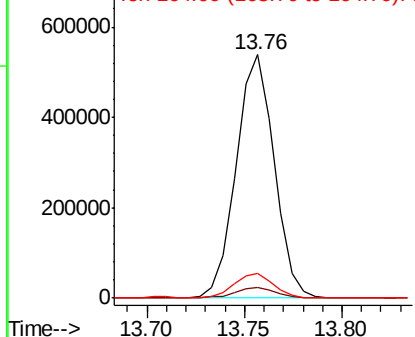


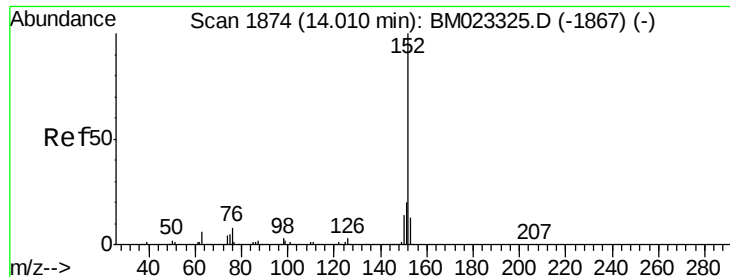
Abundance

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: 23.244 ng/ul

RT: 14.01 min Scan# 1874

Delta R.T. -0.00 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Instrument :

BNA_M

ClientSampleId :

BFB86

Tot Ion:152 Resp: 2285564

Ion Ratio Lower Upper

152 100

151 20.2 15.9 23.9

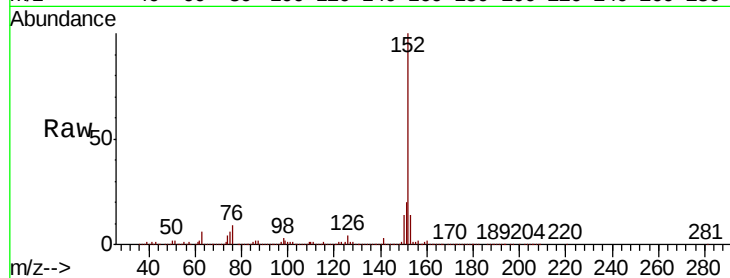
153 13.5 10.3 15.5

Manual Integrations

APPROVED

mohammad

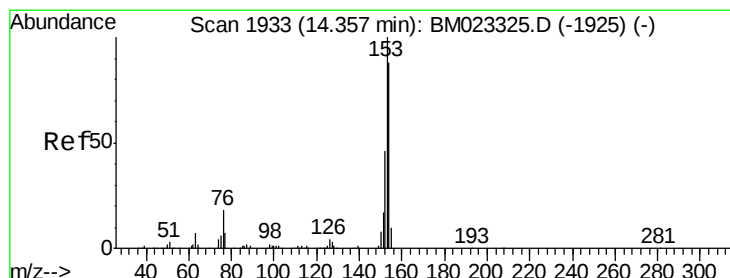
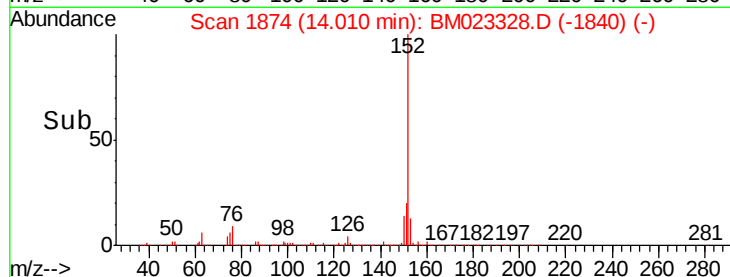
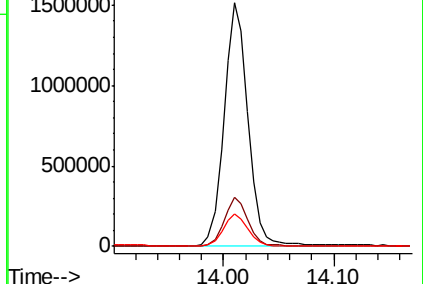
10/24/2019 8:08:48 AM



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: 5.373 ng/ul

RT: 14.36 min Scan# 1933

Delta R.T. -0.00 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

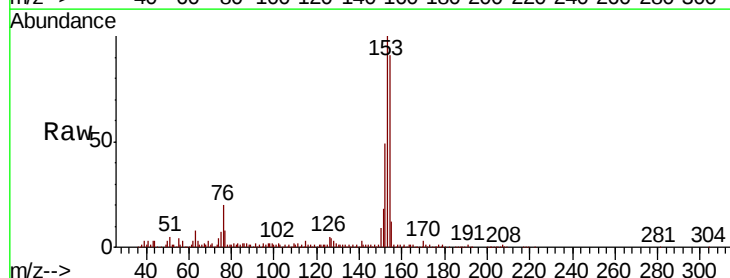
Tgt Ion:153 Resp: 367915

Ion Ratio Lower Upper

153 100

152 49.1 37.4 56.0

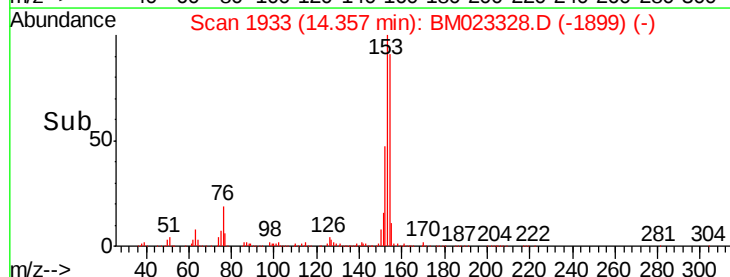
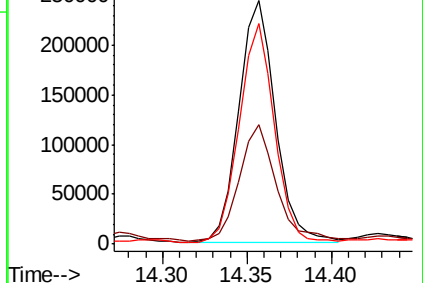
154 90.8 70.7 106.1

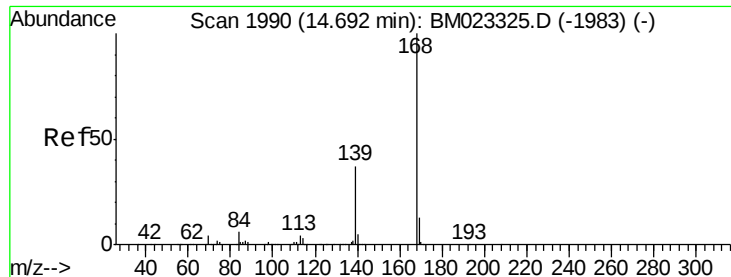


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





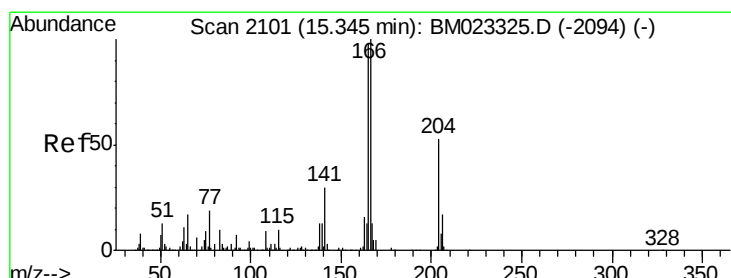
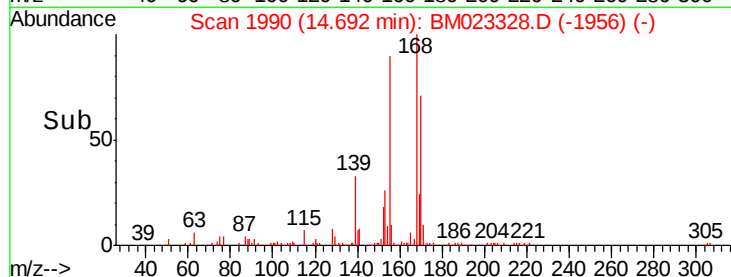
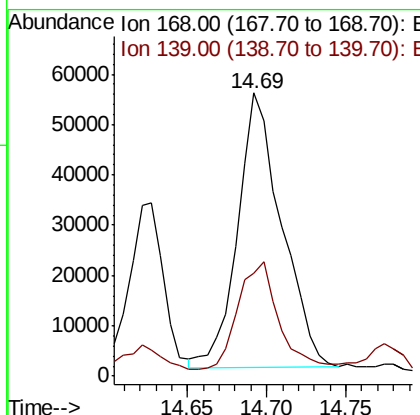
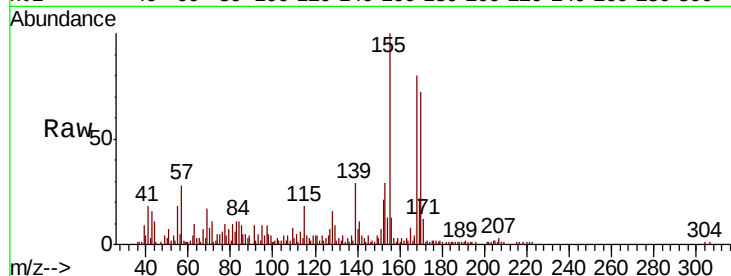
#54
Dibenzofuran
Concen: 1.086 ng/ul
RT: 14.69 min Scan# 1990
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Instrument :
BNA_M
ClientSampleId :
BFB86

Tot Ion	Ion	Ratio	Resp	Lower	Upper
168	100				
139	36.4		31.0	46.4	

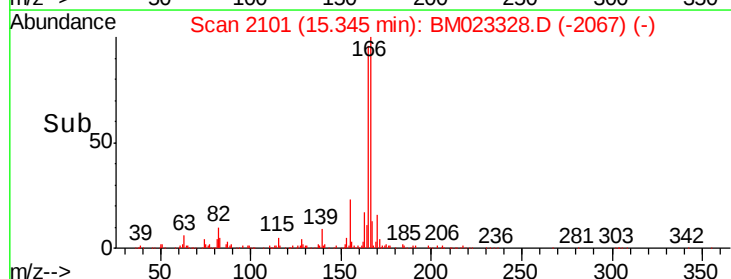
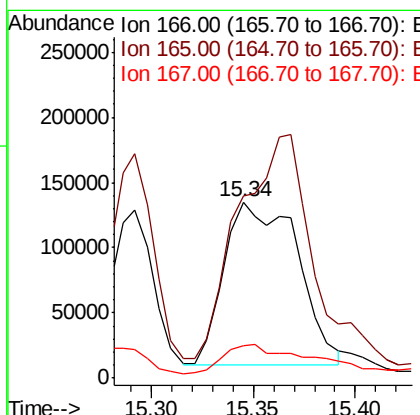
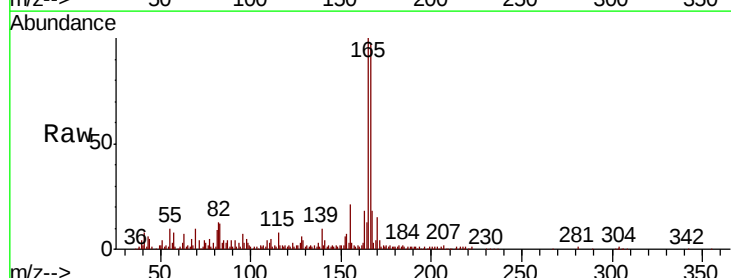
Manual Integrations
APPROVED

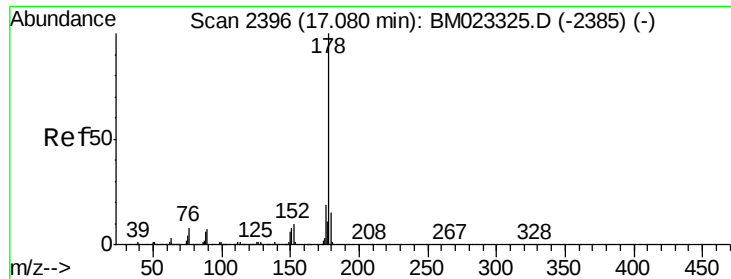
mohammad
10/24/2019 8:08:48 AM



#59
Fluorene
Concen: 3.959 ng/ul m
RT: 15.34 min Scan# 2101
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	103.6		78.3	117.5	
167	18.5		10.7	16.1#	





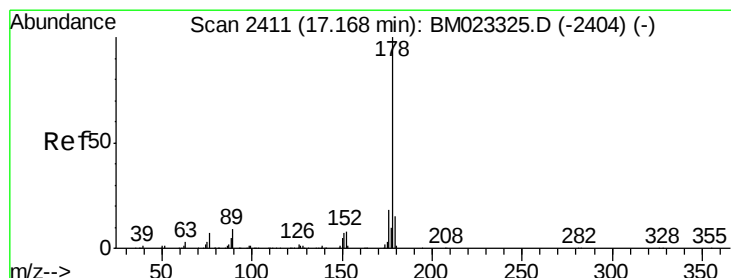
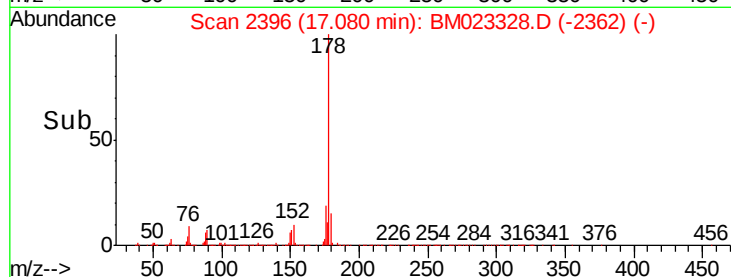
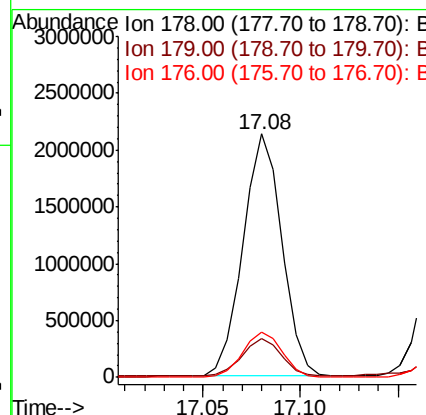
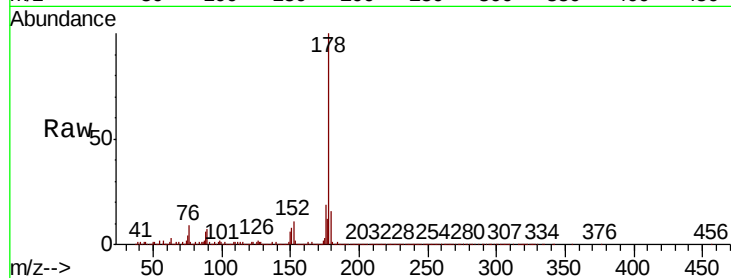
#70
Phenanthrene
Concen: 24.600 ng/ul
RT: 17.08 min Scan# 2396
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Instrument :
BNA_M
ClientSampleId :
BFB86

Tot Ion	Ratio	Lower	Upper
178	100		
179	16.0	11.7	17.5
176	18.8	15.0	22.4

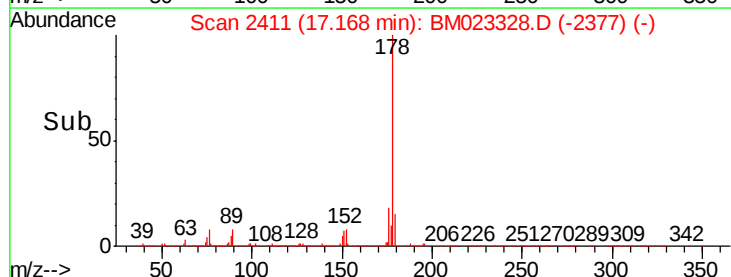
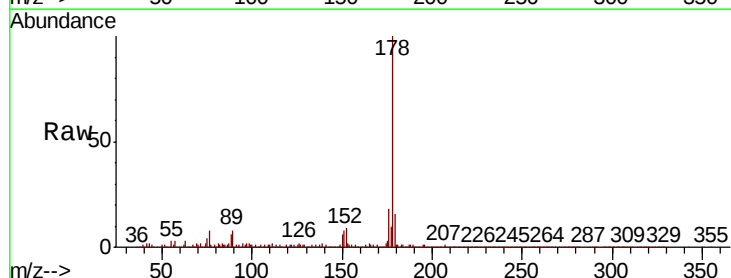
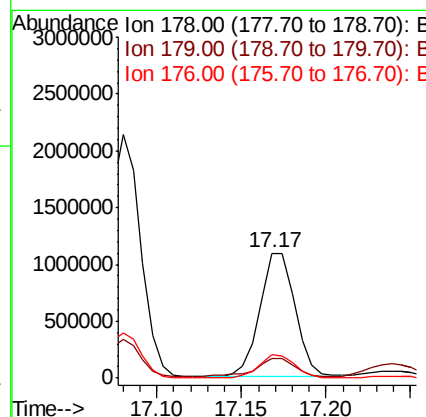
Manual Integrations
APPROVED

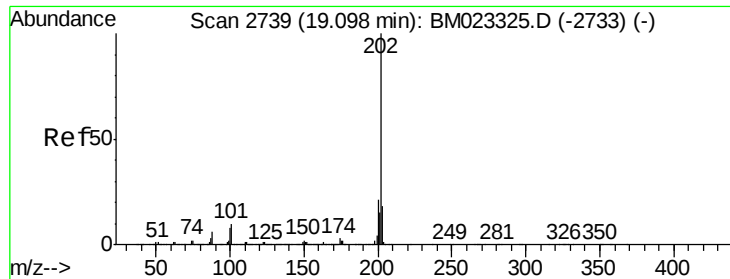
mohammad
10/24/2019 8:08:48 AM



#72
Anthracene
Concen: 12.945 ng/ul
RT: 17.17 min Scan# 2411
Delta R.T. -0.00 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.5	18.7
176	18.3	14.8	22.2





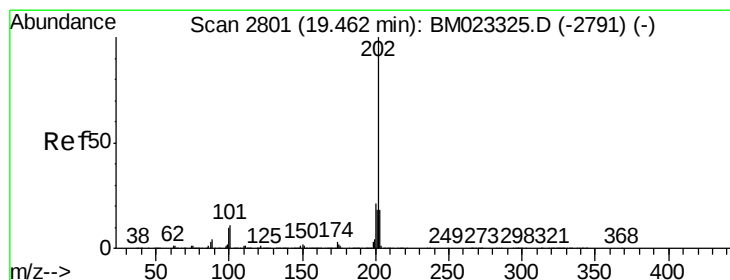
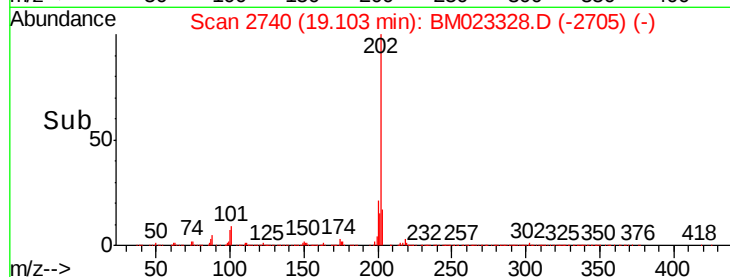
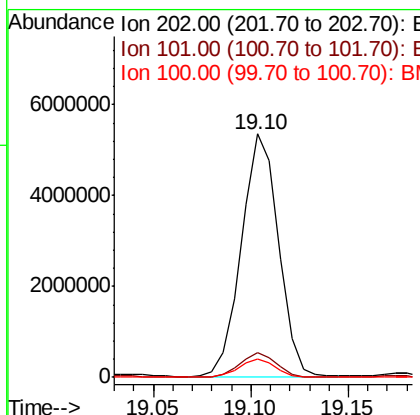
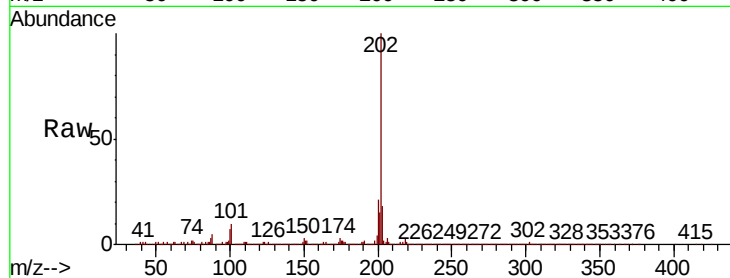
#77
 Fluoranthene
 Concen: 49.223 ng/ul
 RT: 19.10 min Scan# 2740
 Delta R.T. 0.01 min
 Lab File: BM023328.D
 Acq: 22 Oct 2019 20:44

Instrument :
 BNA_M
 ClientSampleId :
 BFB86

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		7024299		
101	9.9	8.2	12.4		
100	7.4	6.1	9.1		

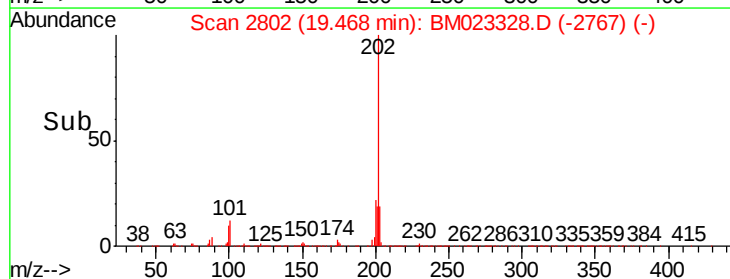
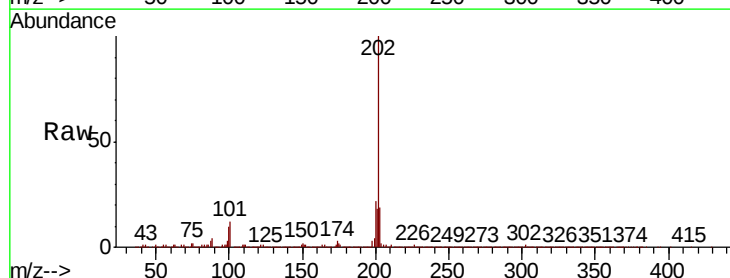
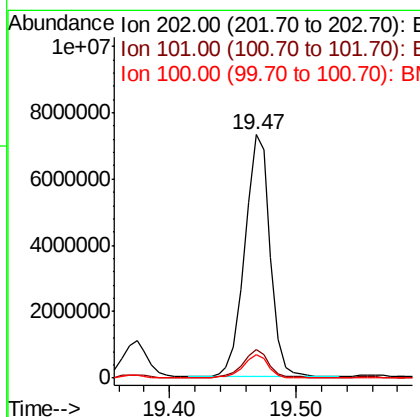
Manual Integrations
 APPROVED

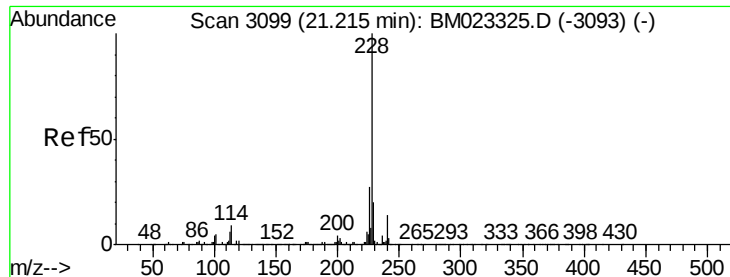
mohammad
 10/24/2019 8:08:48 AM



#80
 Pyrene
 Concen: 72.003 ng/ul
 RT: 19.47 min Scan# 2802
 Delta R.T. 0.01 min
 Lab File: BM023328.D
 Acq: 22 Oct 2019 20:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		10108429		
101	11.6	9.0	13.6		
100	9.6	7.5	11.3		





#83

Benzo(a)anthracene

Concen: 51.505 ng/ul m

RT: 21.22 min Scan# 3100

Delta R.T. 0.01 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Instrument :

BNA_M

ClientSampleId :

BFB86

Tot Ion:228 Resp: 7820765

Ion Ratio Lower Upper

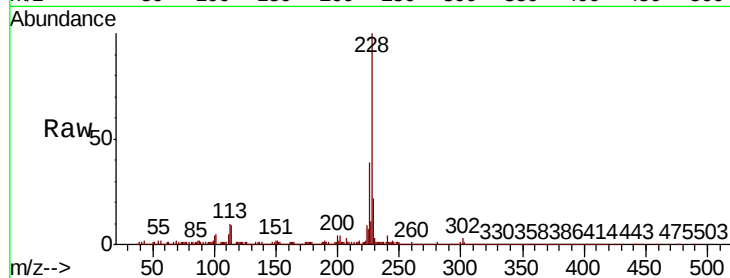
228 100

229 22.2 15.8 23.8

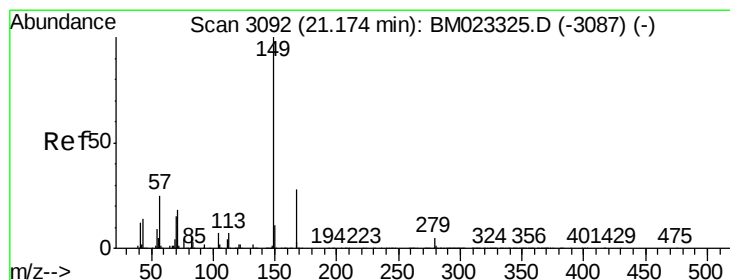
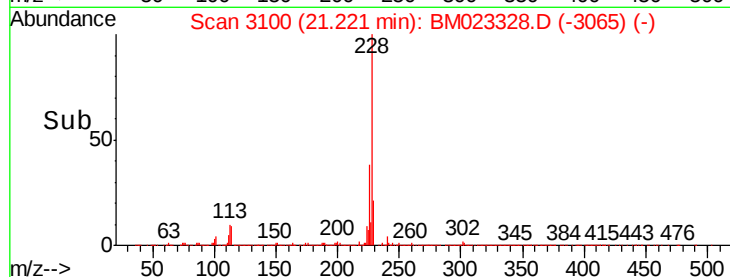
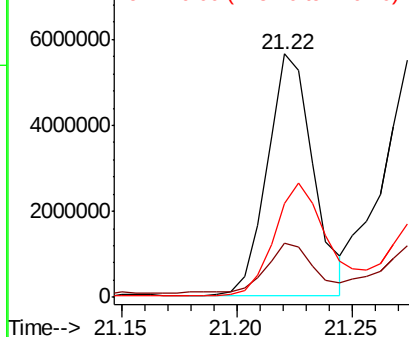
226 38.8 21.5 32.3#

Manual Integrations
APPROVED

mohammad
10/24/2019 8:08:48 AM



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 1.581 ng/ul

RT: 21.18 min Scan# 3093

Delta R.T. 0.01 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

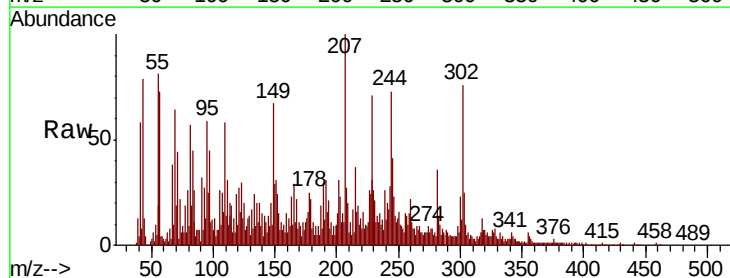
Tgt Ion:149 Resp: 122722

Ion Ratio Lower Upper

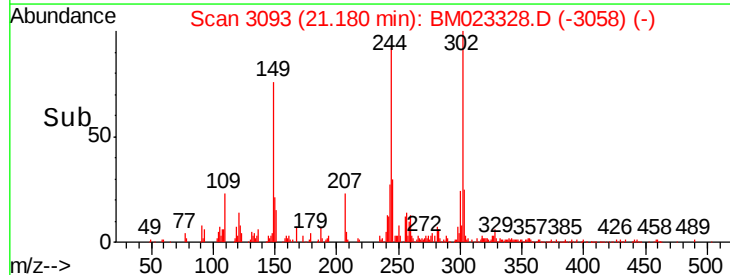
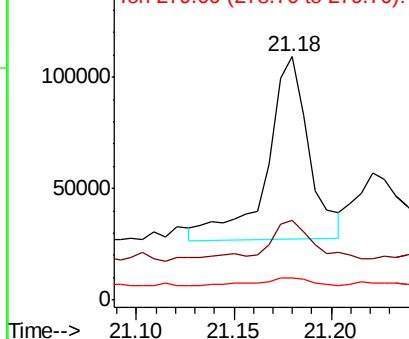
149 100

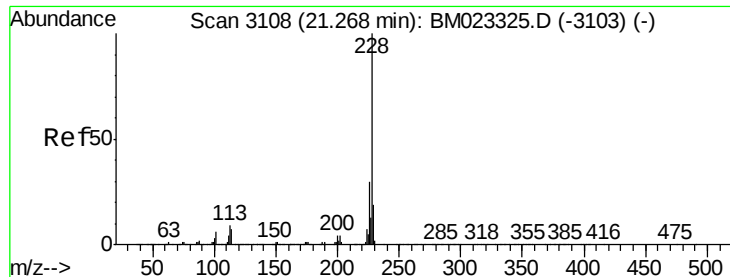
167 32.9 22.1 33.1

279 9.3 4.3 6.5#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 57.058 ng/ul

RT: 21.27 min Scan# 3109

Delta R.T. 0.01 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Instrument :

BNA_M

ClientSampleId :

BFB86

Tot Ion:228 Resp: 8044815

Ion Ratio Lower Upper

228 100

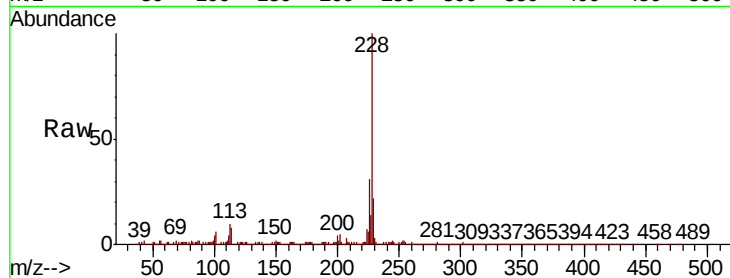
226 31.0 23.4 35.0

229 21.9 15.5 23.3

Manual Integrations
APPROVED

mohammad

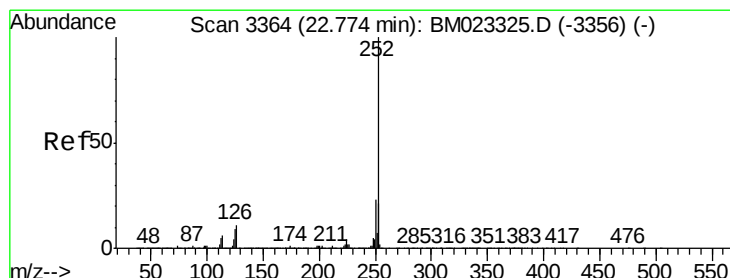
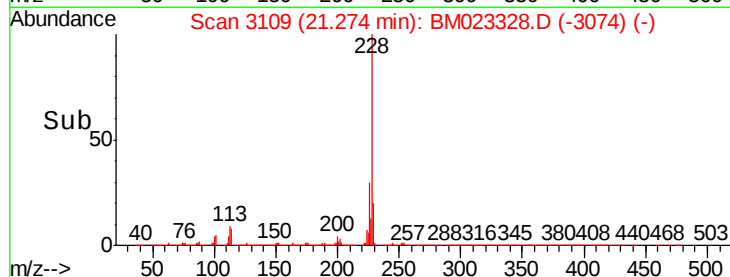
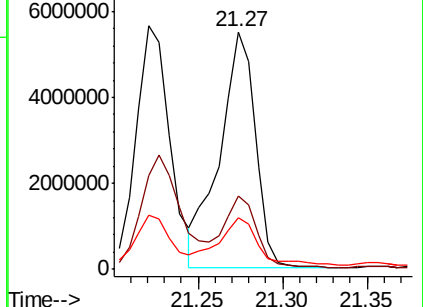
10/24/2019 8:08:48 AM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 56.633 ng/ul

RT: 22.80 min Scan# 3368

Delta R.T. 0.02 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

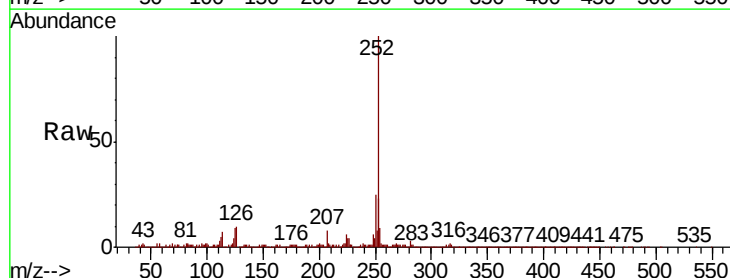
Tgt Ion:252 Resp: 9519708

Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

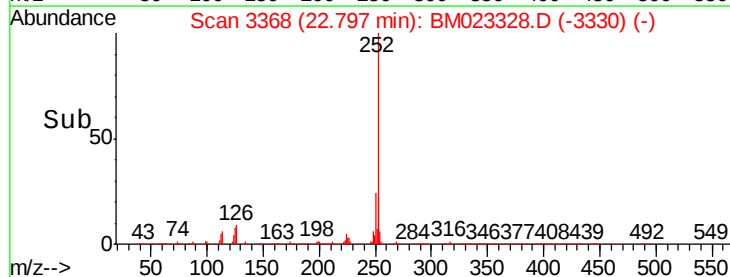
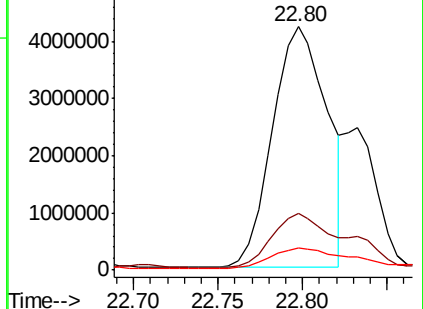
125 8.9 7.0 10.4

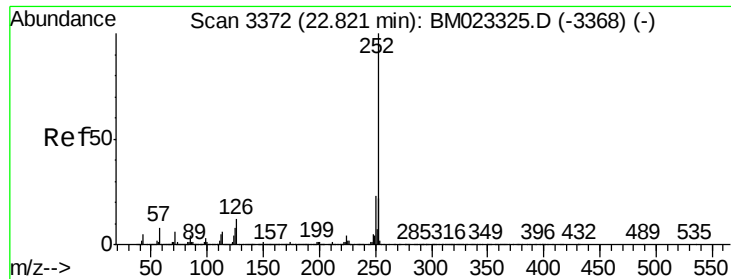


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





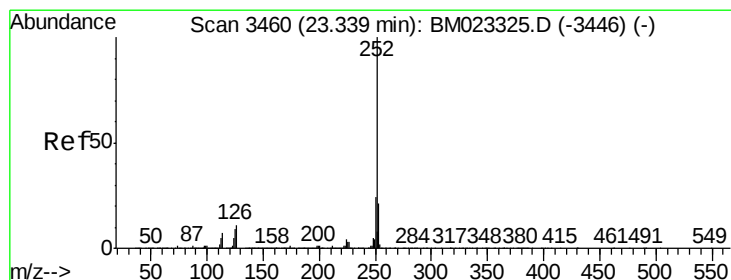
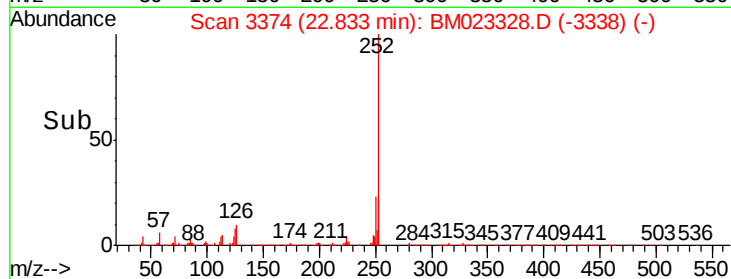
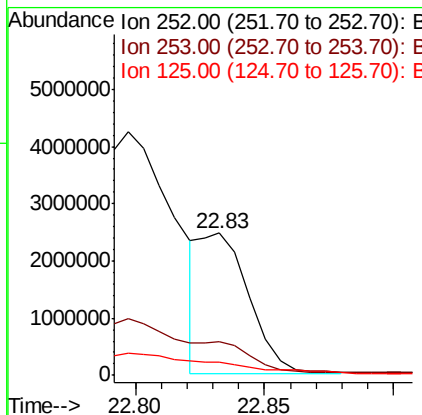
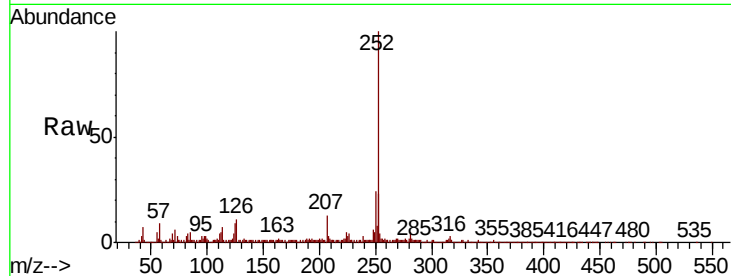
#89
Benzo(k)fluoranthene
Concen: 20.508 ng/ul m
RT: 22.83 min Scan# 3374
Delta R.T. 0.01 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Instrument :
BNA_M
ClientSampleId :
BFB86

Tot Ion:252 Resp: 3310098
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 9.0 6.6 9.8

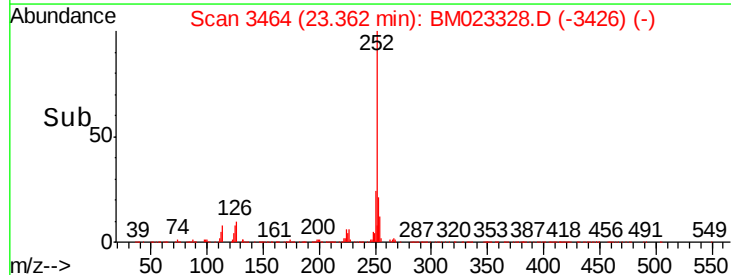
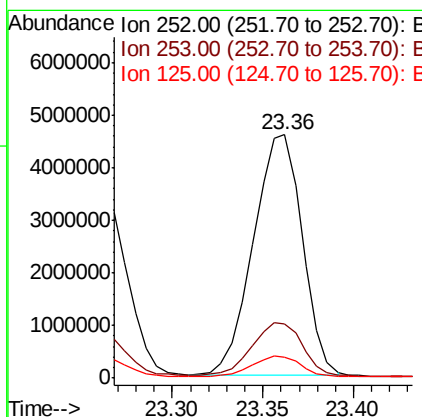
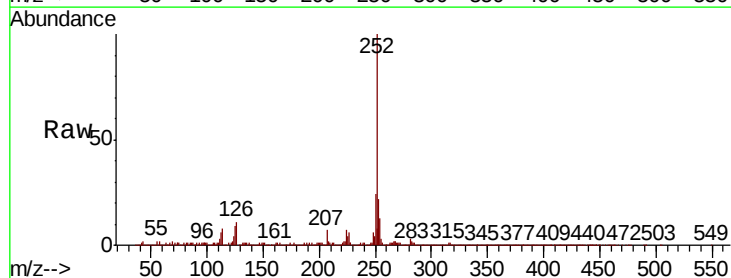
Manual Integrations
APPROVED

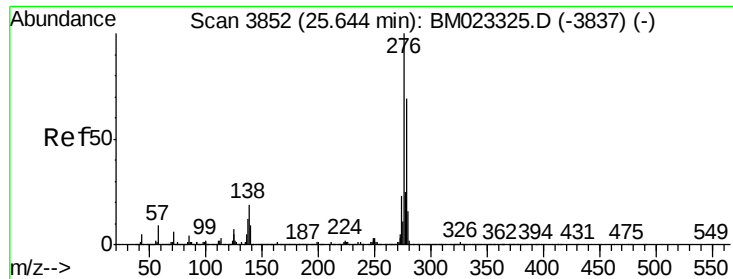
mohammad
10/24/2019 8:08:48 AM



#91
Benzo(a)pyrene
Concen: 53.098 ng/ul
RT: 23.36 min Scan# 3464
Delta R.T. 0.02 min
Lab File: BM023328.D
Acq: 22 Oct 2019 20:44

Tgt Ion:252 Resp: 8563129
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 8.7 7.1 10.7





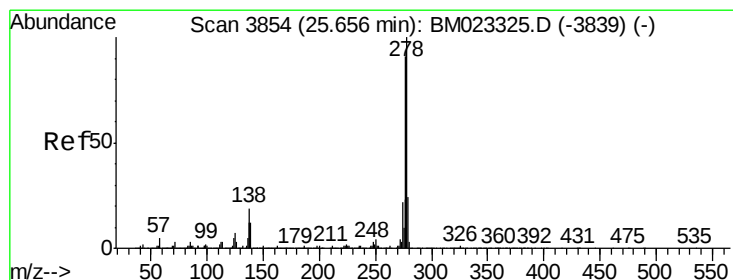
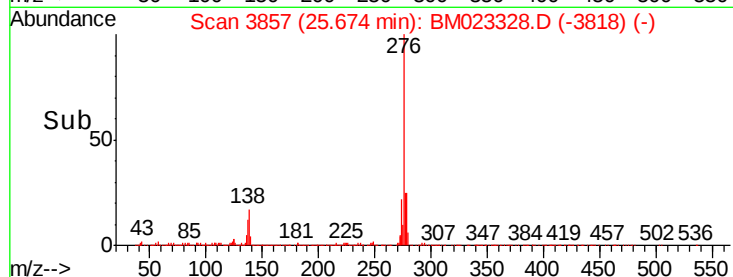
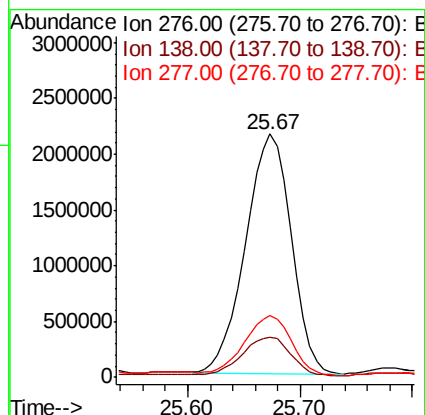
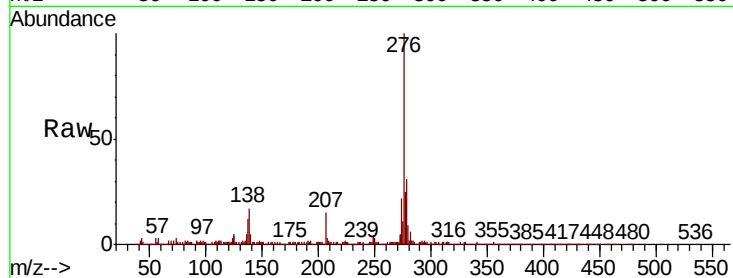
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 31.760 ng/ul m
 RT: 25.67 min Scan# 3857
 Delta R.T. 0.03 min
 Lab File: BM023328.D
 Acq: 22 Oct 2019 20:44

Instrument :
 BNA_M
 ClientSampleID :
 BFB86

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.5	15.8	23.6
277	25.2	19.8	29.8

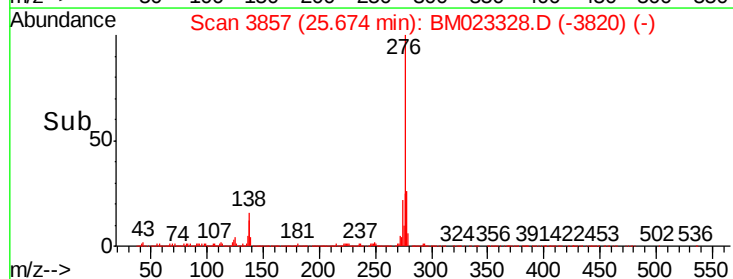
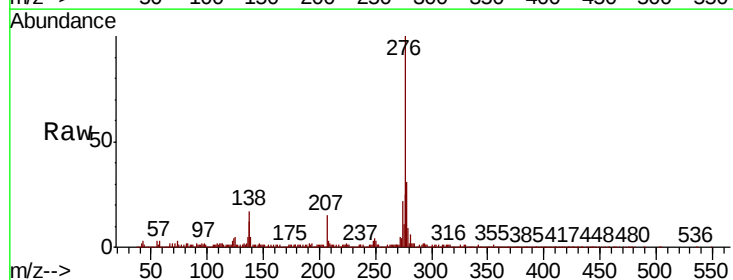
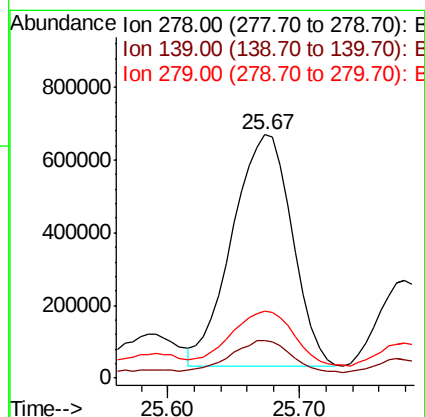
Manual Integrations
 APPROVED

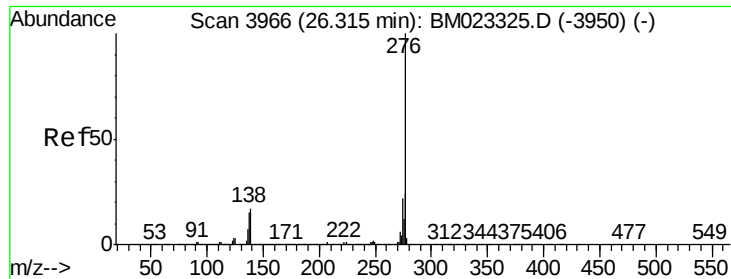
mohammad
 10/24/2019 8:08:48 AM



#93
 Dibenzo(a,h)anthracene
 Concen: 12.650 ng/ul m
 RT: 25.67 min Scan# 3857
 Delta R.T. 0.02 min
 Lab File: BM023328.D
 Acq: 22 Oct 2019 20:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.4	10.5	15.7
279	27.7	19.7	29.5





#94

Benzo(a,h,i)perylene

Concen: 39.112 ng/ul m

RT: 26.36 min Scan# 3973

Delta R.T. 0.04 min

Lab File: BM023328.D

Acq: 22 Oct 2019 20:44

Instrument :

BNA_M

ClientSampleId :

BFB86

Tot Ion:276 Resp: 6178046

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 8:08:48 AM

