

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
 Data File : BM010515.D
 Acq On : 11 Jun 2017 08:58
 Operator : SJ/MA
 Sample : I3522-18
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F5C32

Manual Integrations
 APPROVED

mohammad
 6/12/2017 3:41:18 PM

Quant Time: Jun 12 09:40:56 2017
 Quant Method : Z:\HPCHEM1\BNA_M\Methods\SOM-EPA-BM052717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 12 09:00:46 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	166381	20.00	ng/ul	0.00
18) Naphthalene-d8	10.69	136	609458	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.53	164	401394	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.29	188	1091546m	20.00	ng/ul	0.01
75) Chrysene-d12	21.46	240	1936231	20.00	ng/ul	0.01
83) Perylene-d12	23.79	264	1575611	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.36	96	12556	3.10	ng/uL	0.00
5) Phenol-d5	7.08	99	220468	17.49	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	131161	18.51	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	193259	19.23	ng/ul	0.00
13) 4-Methylphenol-d8	8.61	113	184125	18.10	ng/ul	0.00
19) Nitrobenzene-d5	9.07	128	94007	21.06	ng/ul	0.00
22) 2-Nitrophenol-d4	9.79	143	110690	21.40	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.32	165	239926	22.58	ng/ul	0.00
29) 4-Chloroaniline-d4	10.86	131	249430	24.33	ng/ul	0.00
43) Dimethylphthalate-d6	13.95	166	824731	24.73	ng/ul	0.00
46) Acenaphthylene-d8	14.23	160	907598	23.33	ng/ul	0.00
51) 4-Nitrophenol-d4	14.77	143	89847	18.01	ng/ul	0.00
57) Fluorene-d10	15.52	176	710181	24.23	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.67	200	114108	14.76	ng/ul	0.02
70) Anthracene-d10	17.39	188	1329251	25.03	ng/ul	0.02
76) Pyrene-d10	19.67	212	1979370	24.72	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.64	264	1631407	22.24	ng/ul	0.01
Target Compounds						
6) Phenol	7.10	94	16855	1.304	ng/ul#	79
28) Naphthalene	10.75	128	307235	10.051	ng/ul	97
34) 2-Methylnaphthalene	12.35	142	3373579	145.559	ng/ul	98
40) 1,1'-Biphenyl	13.36	154	1618380	49.701	ng/ul	99
44) Dimethylphthalate	13.99	163	479736	14.627	ng/ul	98
47) Acenaphthylene	14.26	152	453577	11.930	ng/ul#	92
49) Acenaphthene	14.60	153	15202879m	570.166	ng/ul	
53) Dibenzofuran	14.93	168	15880707m	402.781	ng/ul	
58) Fluorene	15.59	166	17095878	528.602	ng/ul#	94
69) Phenanthrene	17.32	178	32524251m	558.141	ng/ul	
71) Anthracene	17.43	178	12336549	202.790	ng/ul#	81
72) Carbazole	17.70	167	454262m	8.822	ng/ul	
74) Fluoranthene	19.33	202	25684906m	358.434	ng/ul	
77) Pyrene	19.70	202	24509039m	245.642	ng/ul	
80) Benzo(a)anthracene	21.43	228	15445641	141.461	ng/ul#	74
82) Chrysene	21.49	228	12542979	127.080	ng/ul#	79
85) Benzo(b)fluoranthene	23.09	252	13120594	143.110	ng/ul	100
86) Benzo(k)fluoranthene	23.12	252	4682037m	53.457	ng/ul	
88) Benzo(a)pyrene	23.70	252	8311404	91.457	ng/ul	99
89) Indeno(1,2,3-cd)pyrene	26.17	276	3139919	27.348	ng/ul#	97
90) Dibenz(a,h)anthracene	26.17	278	982543	9.936	ng/ul#	90
91) Benzo(g,h,i)perylene	26.91	276	2294487	24.257	ng/ul#	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

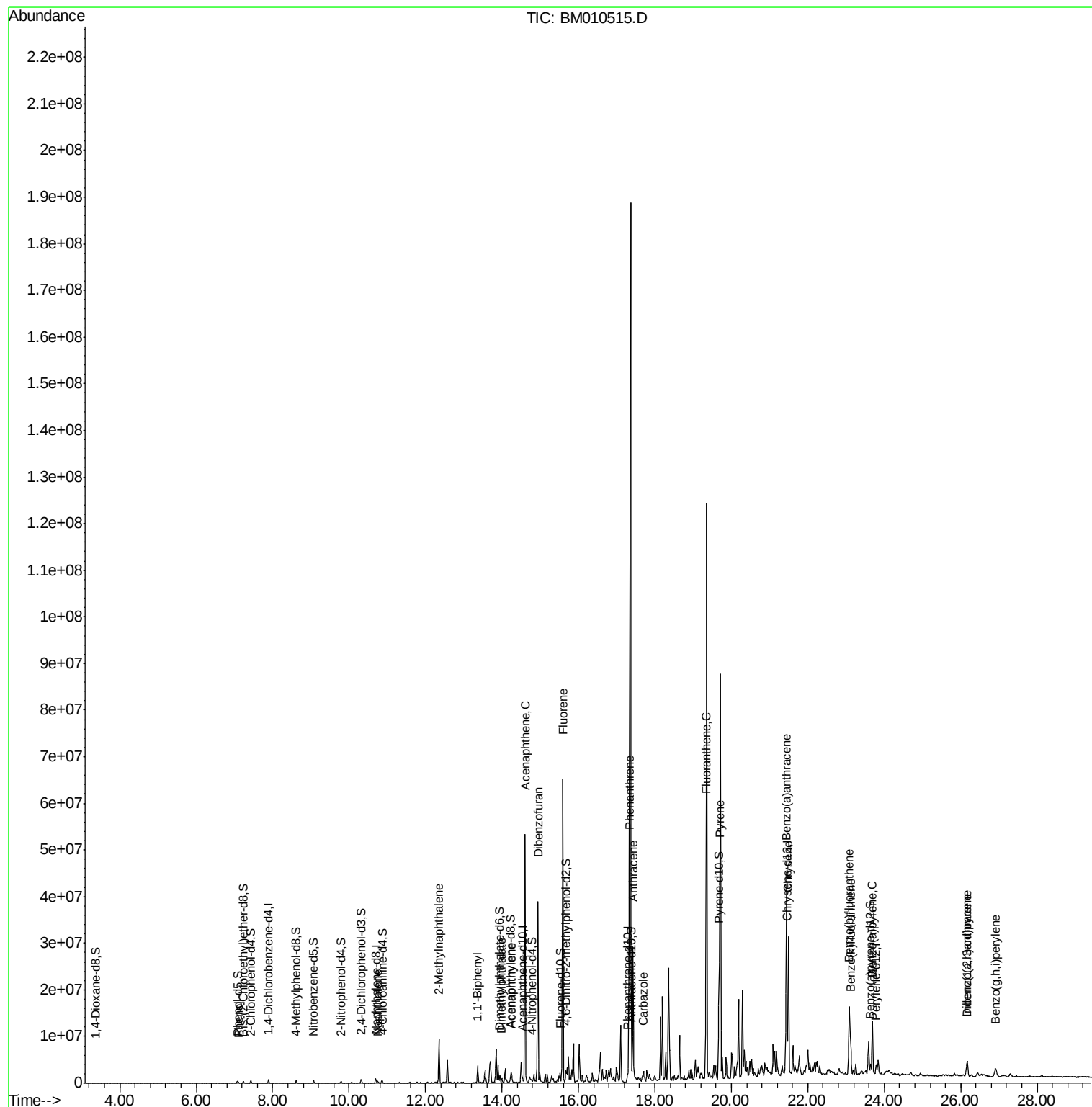
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061017\
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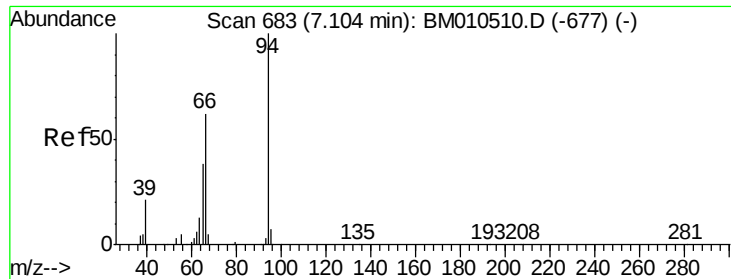
Instrument :
BNA_M
ClientSampleId :
F5C32

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#6

Phenol

Concen: 1.304 ng/ul

RT: 7.10 min Scan# 683

Delta R.T. 0.00 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

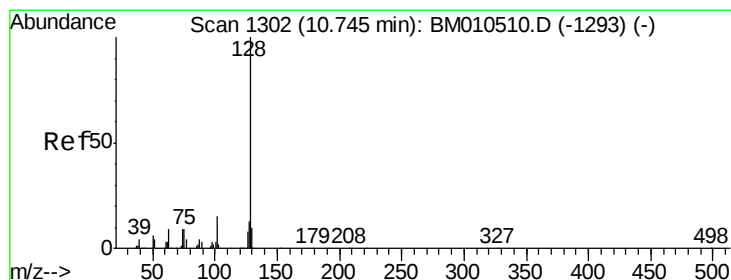
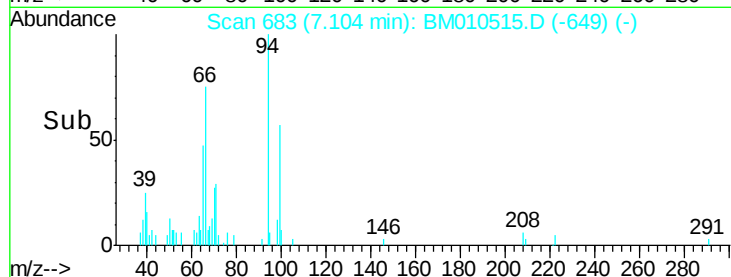
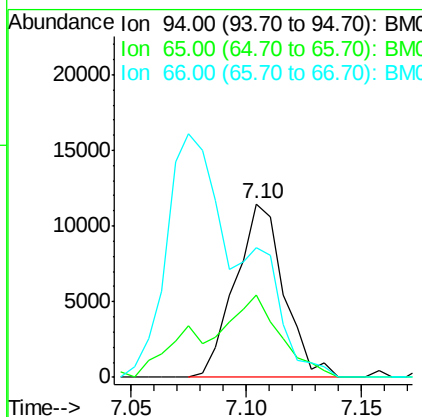
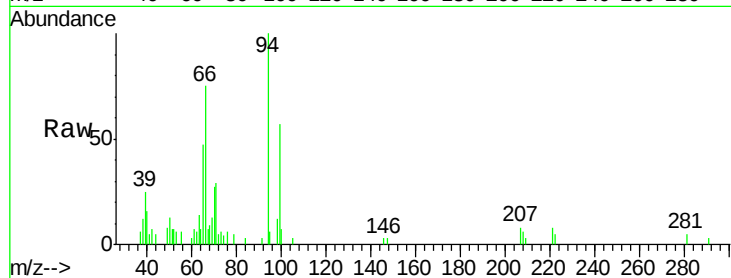
ClientSampleId :

F5C32

Tgt Ion:	94	Resp:	16855
Ion Ratio	Lower	Upper	
94	100		
65	47.2	28.2	42.4#
66	74.9	47.2	70.8#

Manual Integrations
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#28

Naphthalene

Concen: 10.051 ng/ul

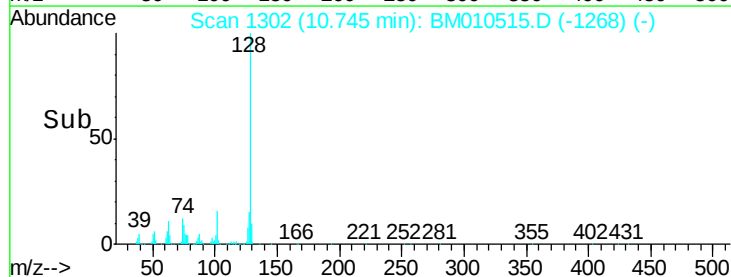
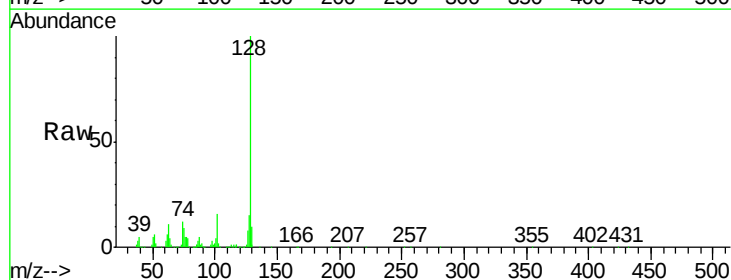
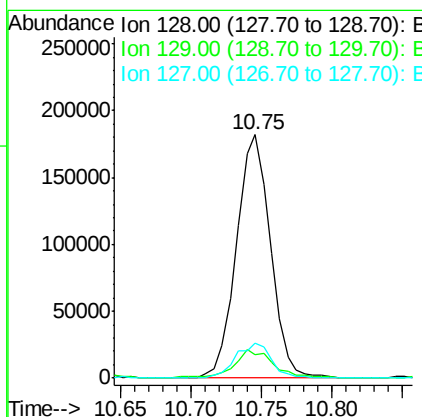
RT: 10.75 min Scan# 1302

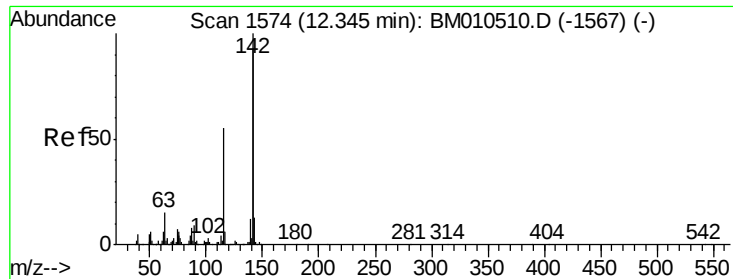
Delta R.T. 0.00 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Tgt Ion:	128	Resp:	307235
Ion Ratio	Lower	Upper	
128	100		
129	9.6	8.8	13.2
127	14.6	10.6	16.0





#34

2-Methylnaphthalene

Concen: 145.559 ng/ul

RT: 12.35 min Scan# 1575

Delta R.T. 0.01 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampled :

F5C32

Tgt Ion:142 Resp: 3373579

Ion Ratio Lower Upper

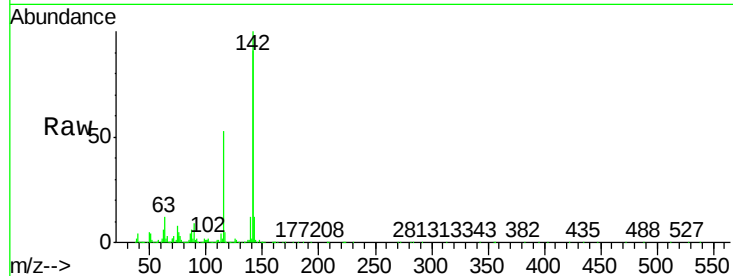
142 100

141 91.1 74.1 111.1

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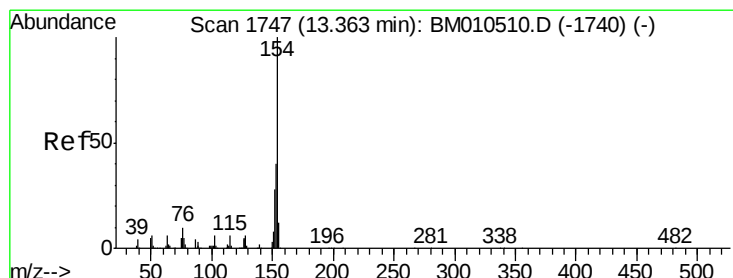
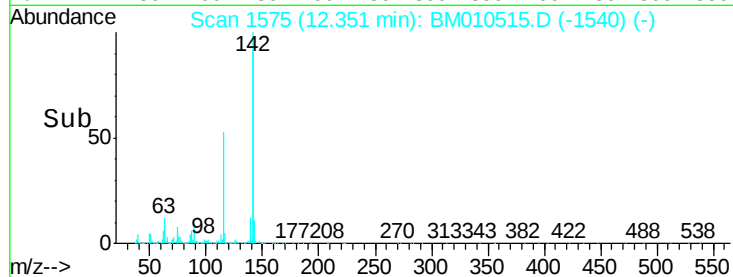
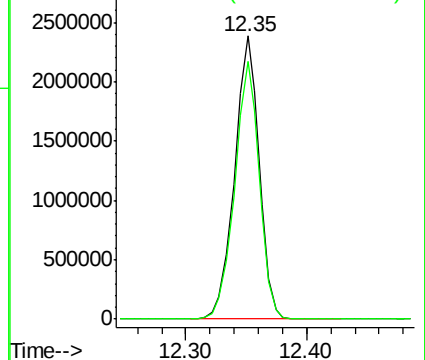
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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#40

1,1'-Biphenyl

Concen: 49.701 ng/ul

RT: 13.36 min Scan# 1747

Delta R.T. 0.00 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

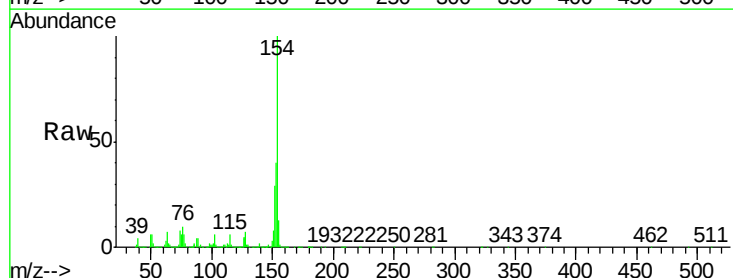
Tgt Ion:154 Resp: 1618380

Ion Ratio Lower Upper

154 100

153 40.5 32.6 48.8

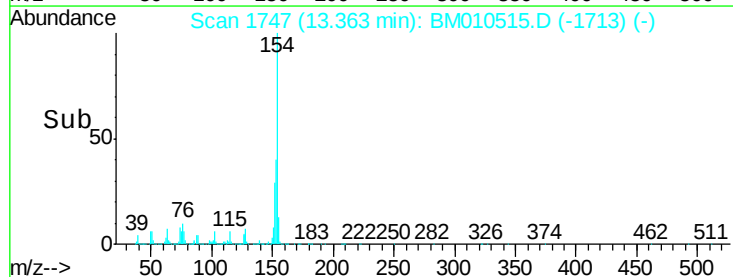
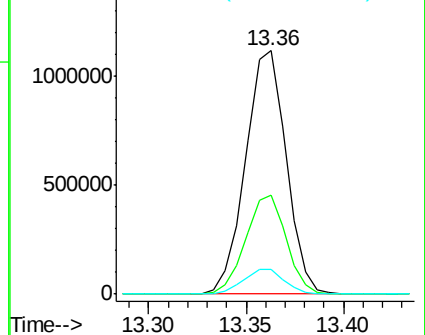
76 10.1 8.5 12.7

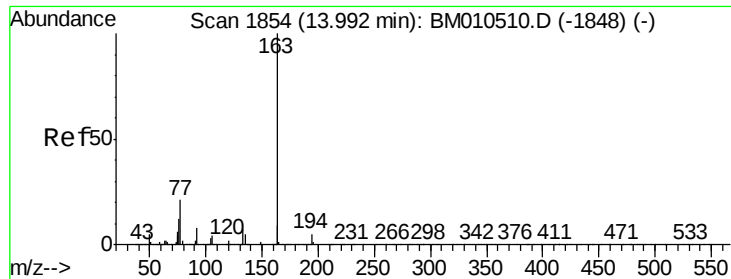


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





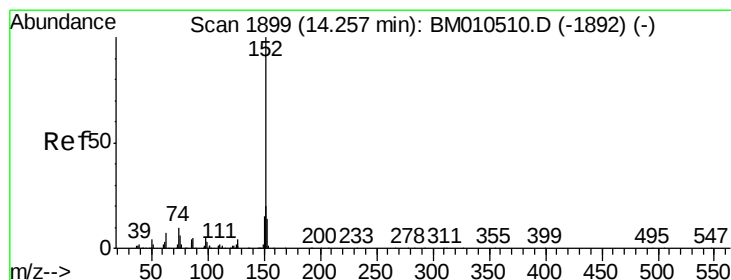
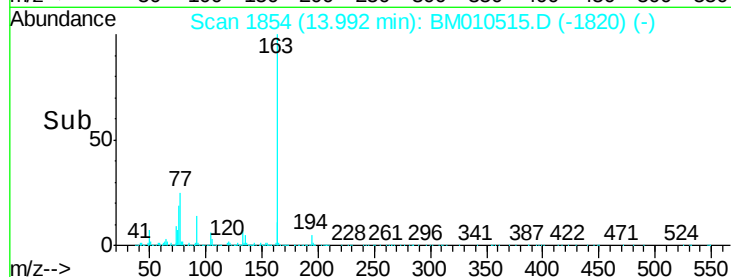
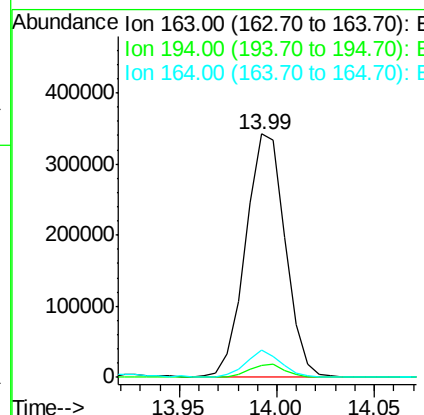
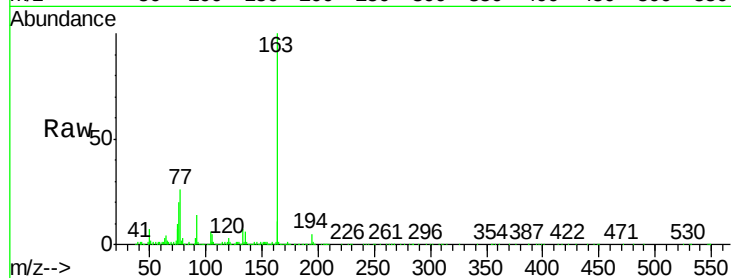
#44
Dimethylphthalate
Concen: 14.627 ng/ul
RT: 13.99 min Scan# 1854
Delta R.T. 0.00 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Instrument :
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ClientSampleId :
F5C32

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	4.7	3.5	5.3
164	11.2	8.2	12.4

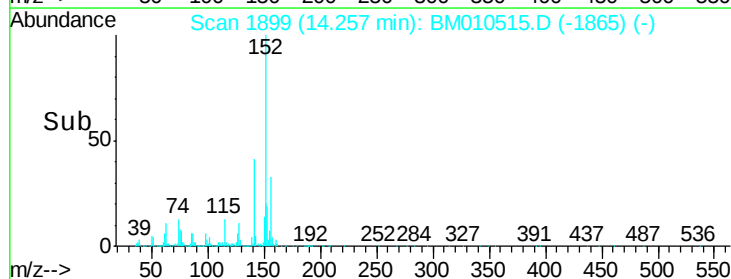
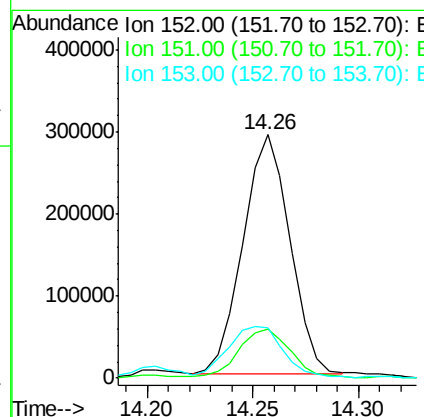
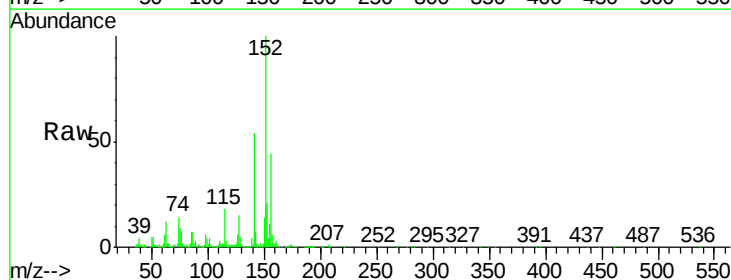
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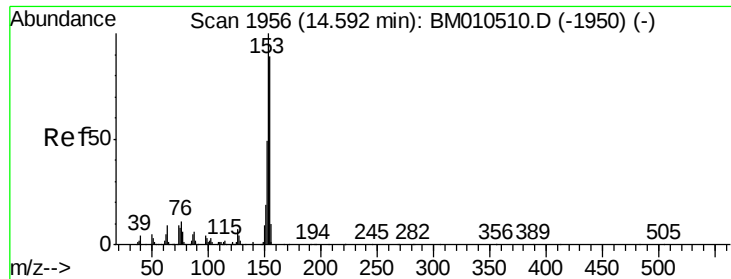
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#47
Acenaphthylene
Concen: 11.930 ng/ul
RT: 14.26 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	20.1	16.3	24.5
153	20.5	10.2	15.4





#49

Acenaphthene

Concen: 570.166 ng/ul m

RT: 14.60 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampleId :

F5C32

Tgt Ion:153 Resp:15202879

Ion Ratio Lower Upper

153 100

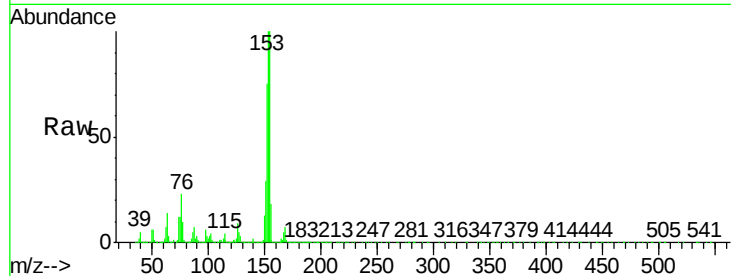
152 74.6 37.6 56.4#

154 100.0 70.4 105.6

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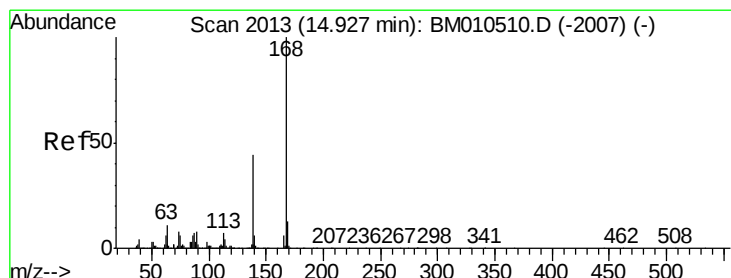
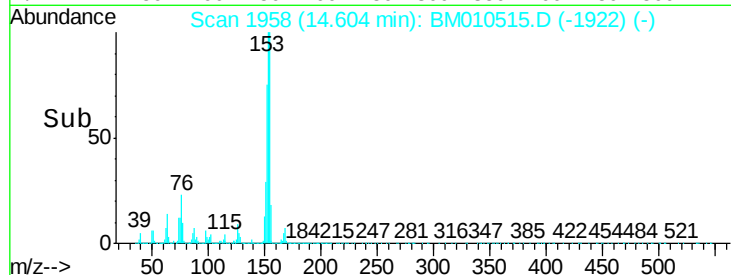
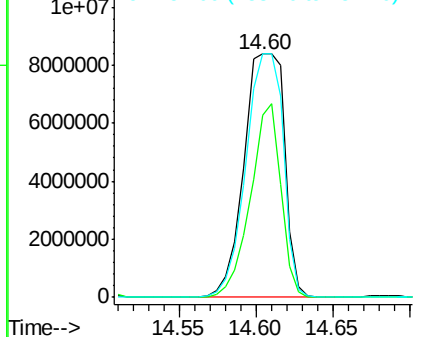
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 402.781 ng/ul m

RT: 14.93 min Scan# 2014

Delta R.T. 0.01 min

Lab File: BM010515.D

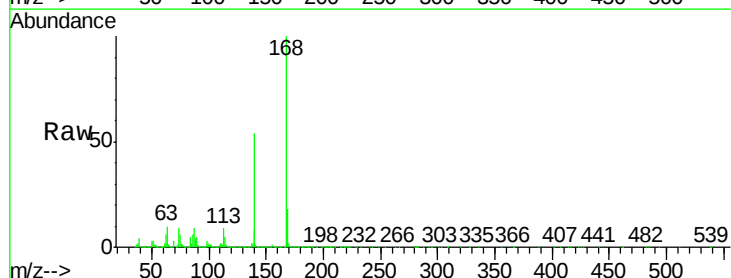
Acq: 11 Jun 2017 08:58

Tgt Ion:168 Resp:15880707

Ion Ratio Lower Upper

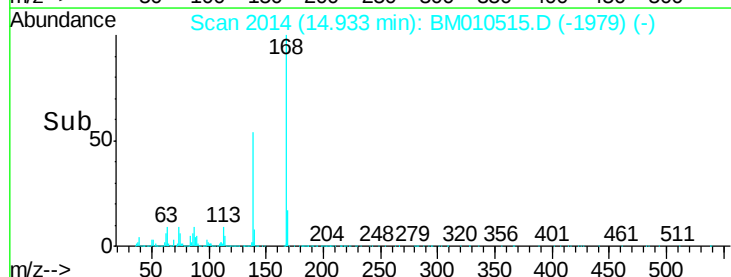
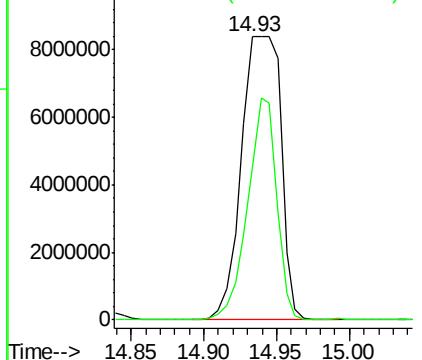
168 100

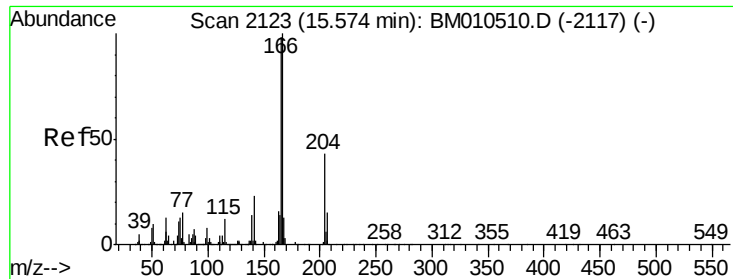
139 54.0 30.8 46.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 528.602 ng/ul

RT: 15.59 min Scan# 2125

Delta R.T. 0.01 min

Lab File: BM010515.D

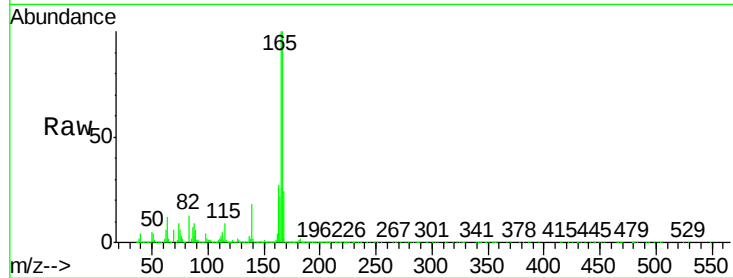
Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampled :

F5C32



Tgt Ion:166 Resp:17095878

Ion Ratio Lower Upper

166 100

165 100.0 77.9 116.9

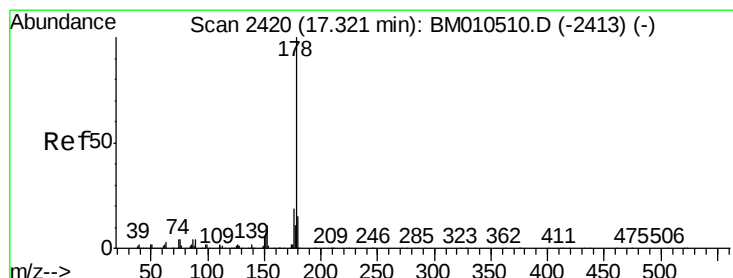
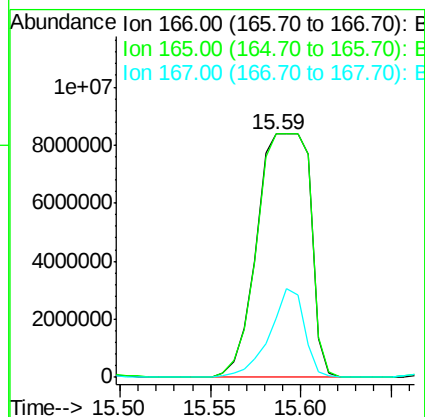
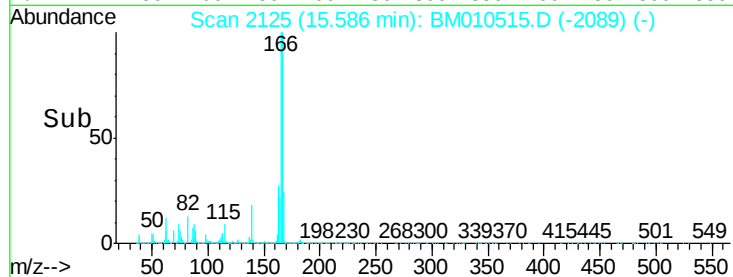
167 24.3 10.6 16.0#

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#69

Phenanthrene

Concen: 558.141 ng/ul m

RT: 17.32 min Scan# 2420

Delta R.T. 0.00 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

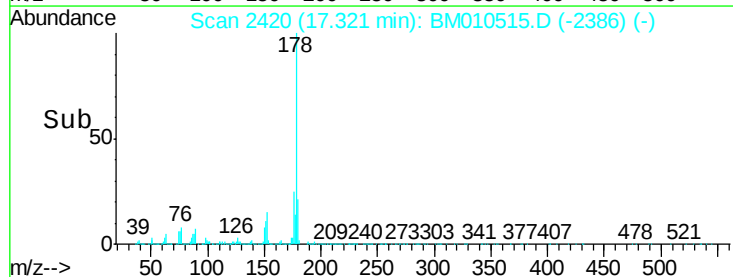
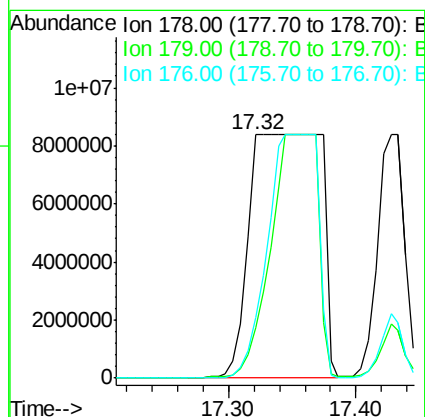
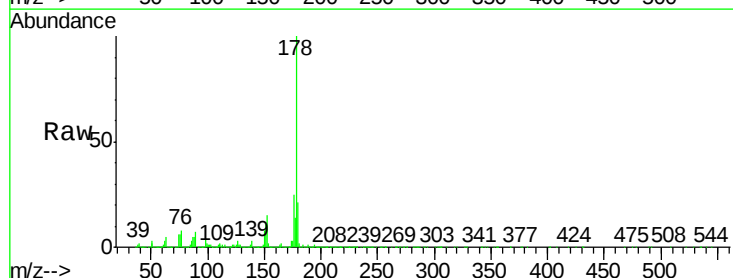
Tgt Ion:178 Resp:32524251

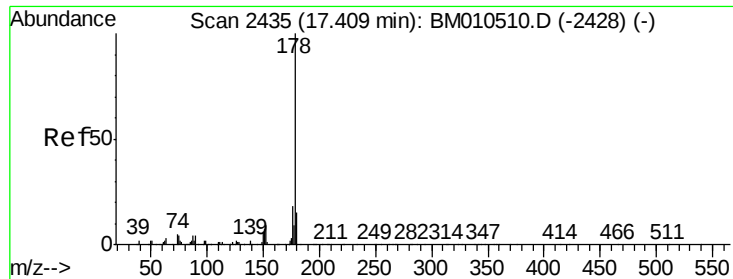
Ion Ratio Lower Upper

178 100

179 20.9 12.6 19.0#

176 24.9 14.9 22.3#





#71

Anthracene

Concen: 202.790 ng/ul

RT: 17.43 min Scan# 2438

Delta R.T. 0.02 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampleId :

F5C32

Tgt Ion:178 Resp:12336549

Ion Ratio Lower Upper

178 100

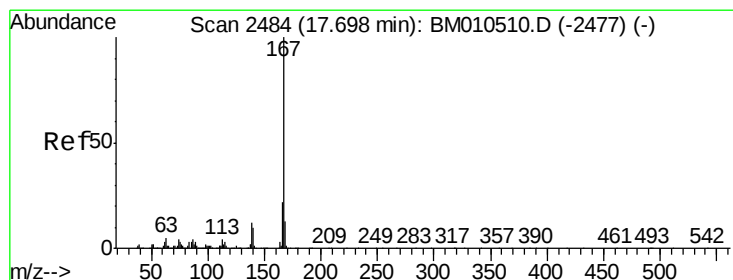
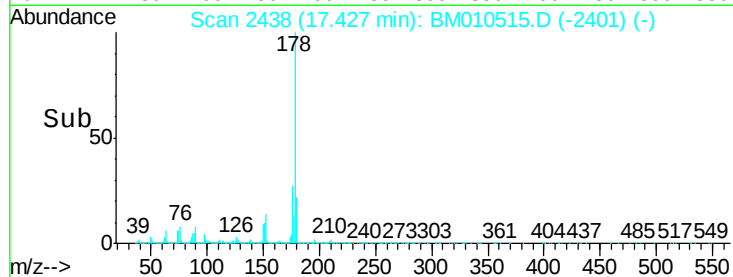
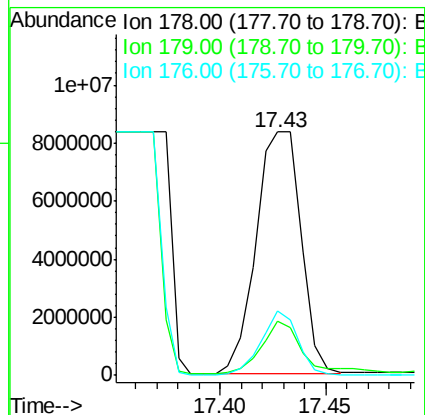
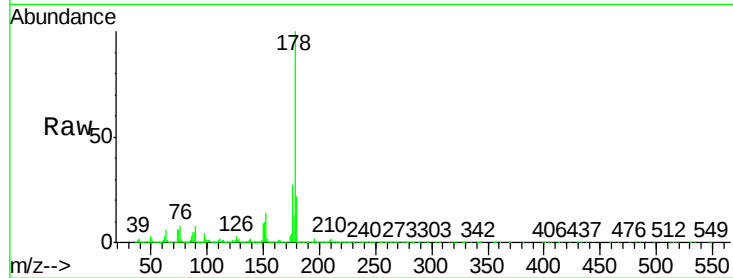
179 22.3 11.7 17.5#

176 26.5 14.6 21.8#

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#72

Carbazole

Concen: 8.822 ng/ul m

RT: 17.70 min Scan# 2484

Delta R.T. 0.00 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

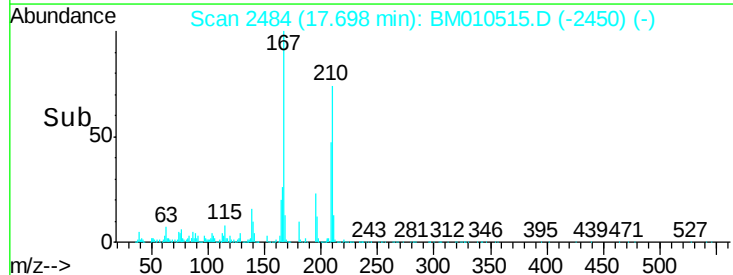
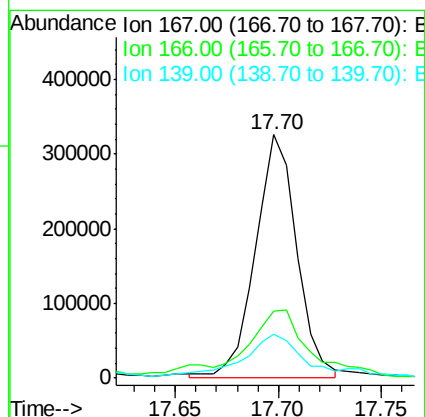
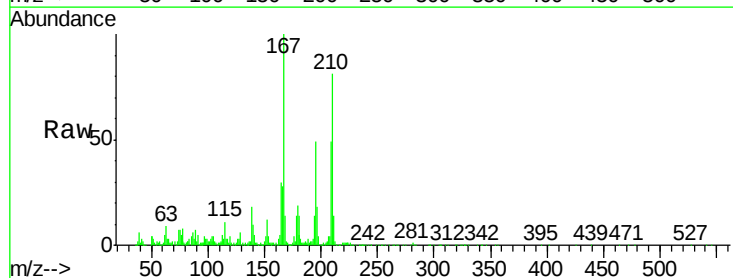
Tgt Ion:167 Resp: 454262

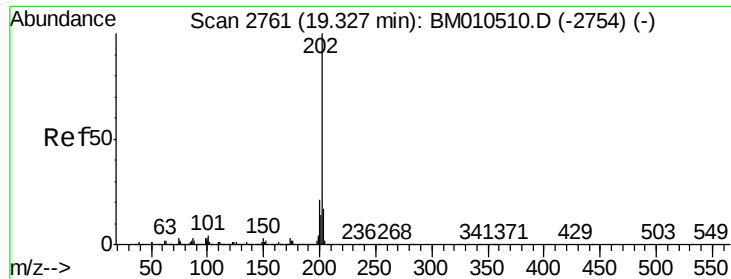
Ion Ratio Lower Upper

167 100

166 27.7 17.1 25.7#

139 18.3 10.0 15.0#





#74

Fluoranthene

Concen: 358.434 ng/ul m

RT: 19.33 min Scan# 2762

Delta R.T. 0.01 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampleId :

F5C32

Tgt Ion:202 Resp:25684906

Ion Ratio Lower Upper

202 100

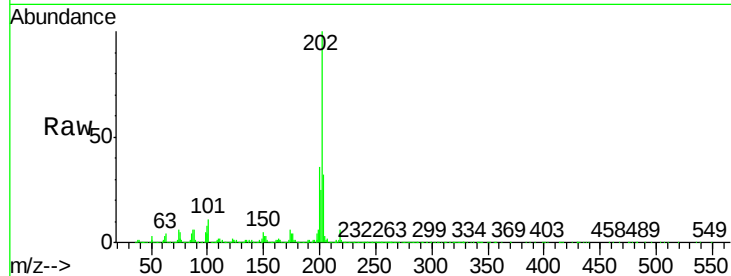
101 10.6 4.6 7.0#

100 8.1 3.4 5.2#

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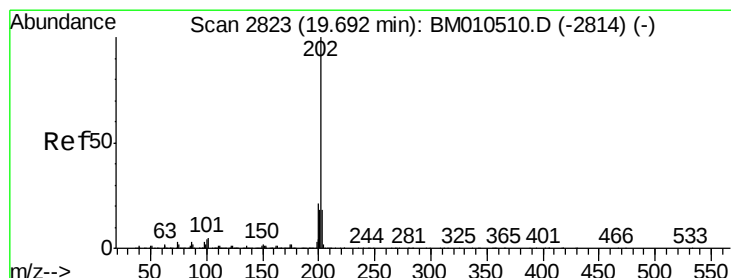
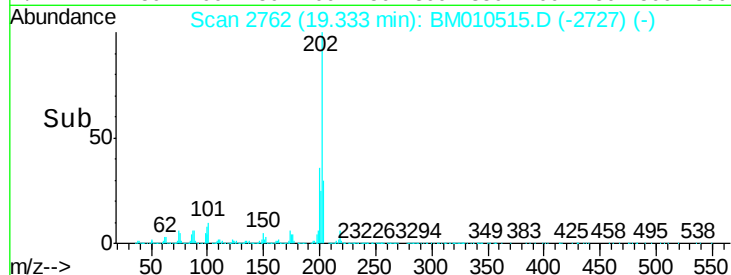
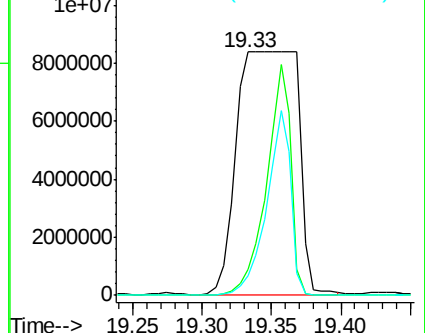
6/12/2017 3:41:18 PM



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



#77

Pyrene

Concen: 245.642 ng/ul m

RT: 19.70 min Scan# 2824

Delta R.T. 0.01 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Tgt Ion:202 Resp:24509039

Ion Ratio Lower Upper

202 100

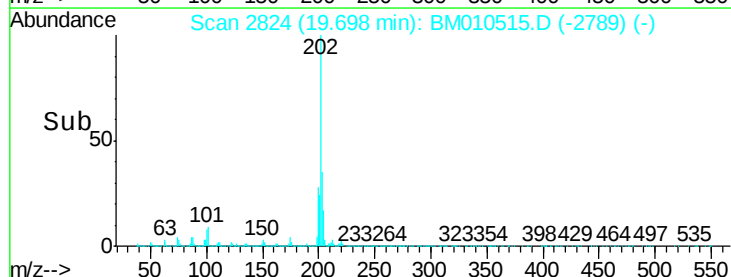
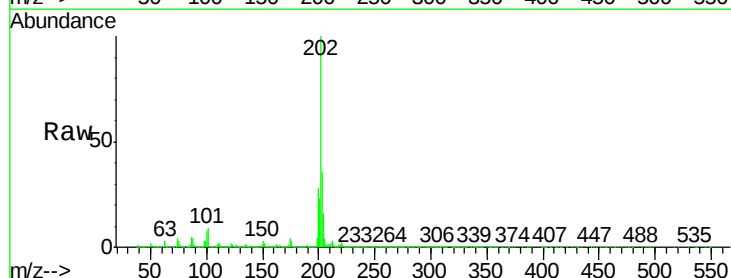
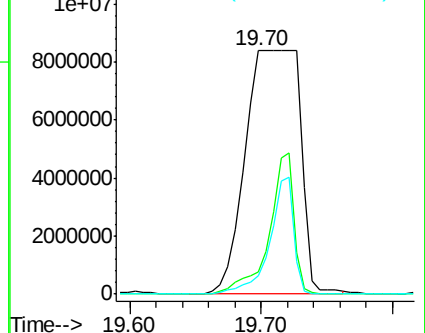
101 9.3 5.1 7.7#

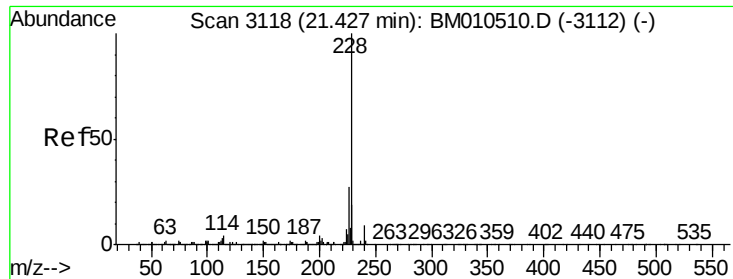
100 7.6 4.9 7.3#

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





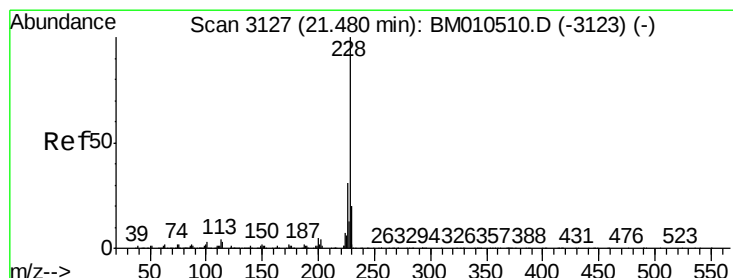
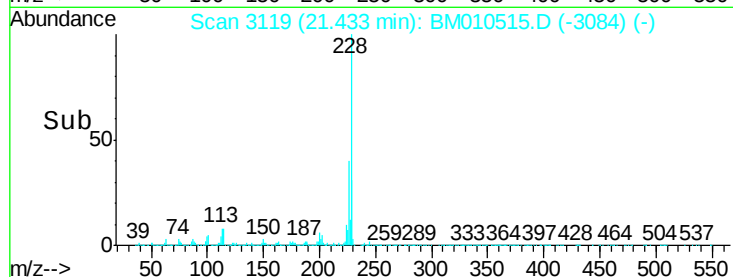
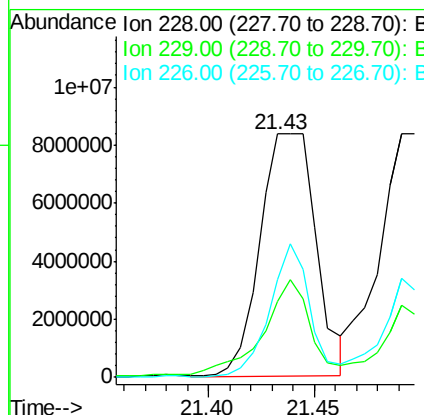
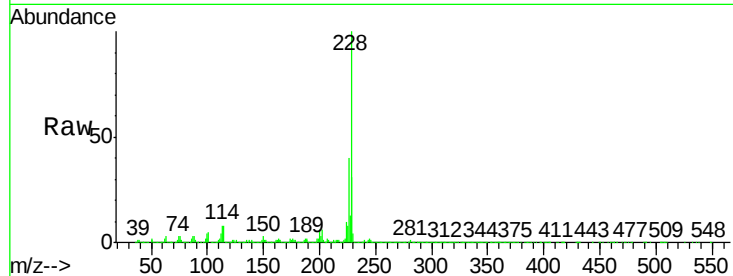
#80
Benzo(a)anthracene
Concen: 141.461 ng/u1
RT: 21.43 min Scan# 3119
Delta R.T. 0.01 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Instrument :
BNA_M
ClientSampled :
F5C32

Tgt Ion:228 Resp:15445641
Ion Ratio Lower Upper
228 100
229 30.9 15.4 23.0#
226 40.4 21.4 32.0#

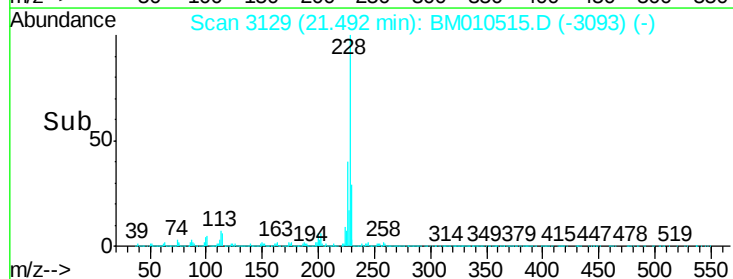
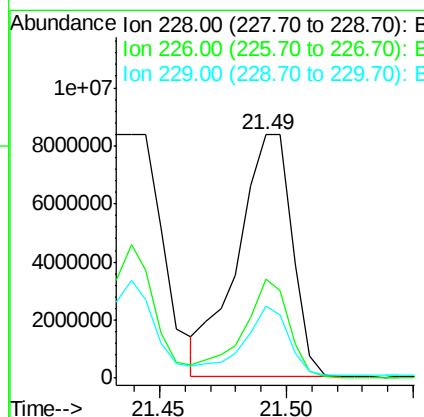
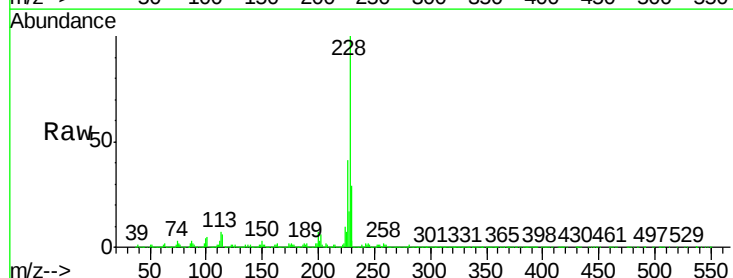
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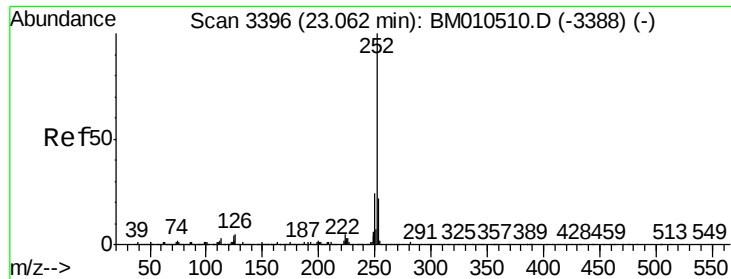
mohammad
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#82
Chrysene
Concen: 127.080 ng/u1
RT: 21.49 min Scan# 3129
Delta R.T. 0.01 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Tgt Ion:228 Resp:12542979
Ion Ratio Lower Upper
228 100
226 40.5 23.4 35.2#
229 29.4 15.5 23.3#





#85

Benzo(b)fluoranthene

Concen: 143.110 ng/ul

RT: 23.09 min Scan# 3400

Delta R.T. 0.02 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

Instrument :

BNA_M

ClientSampleId :

F5C32

Tgt Ion:252 Resp:13120594

Ion Ratio Lower Upper

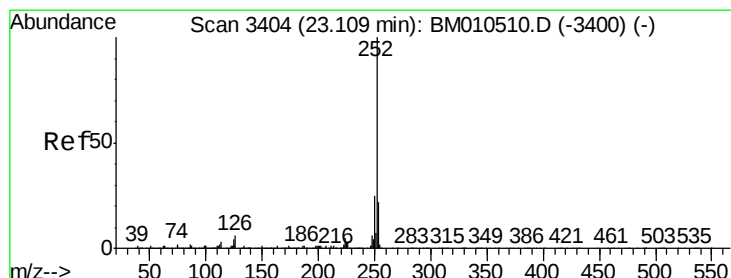
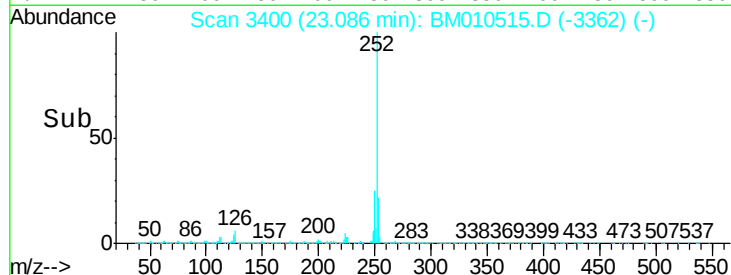
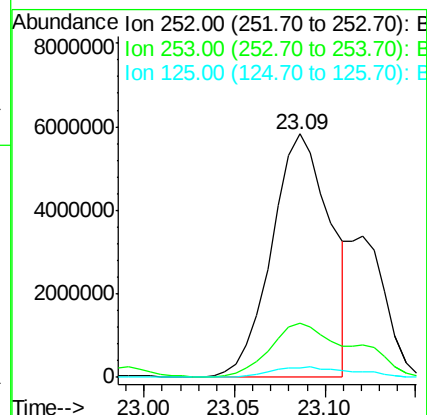
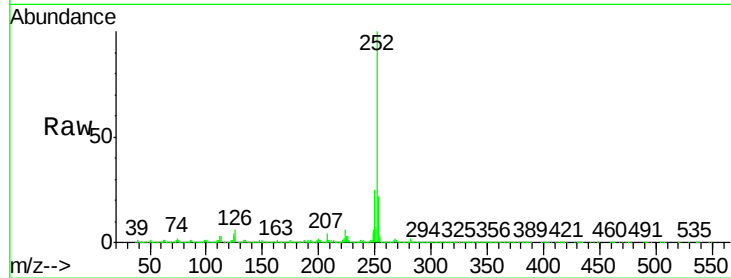
252 100

253 22.4 17.9 26.9

125 4.1 3.6 5.4

Manual Integrations
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#86

Benzo(k)fluoranthene

Concen: 53.457 ng/ul m

RT: 23.12 min Scan# 3406

Delta R.T. 0.01 min

Lab File: BM010515.D

Acq: 11 Jun 2017 08:58

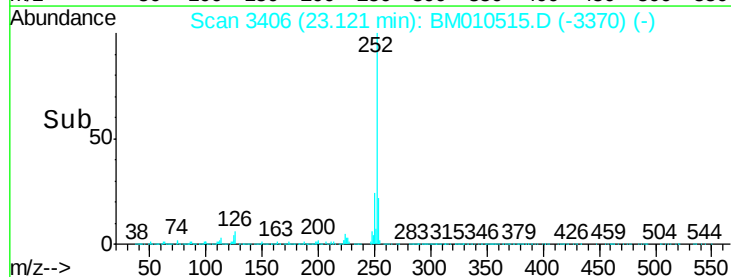
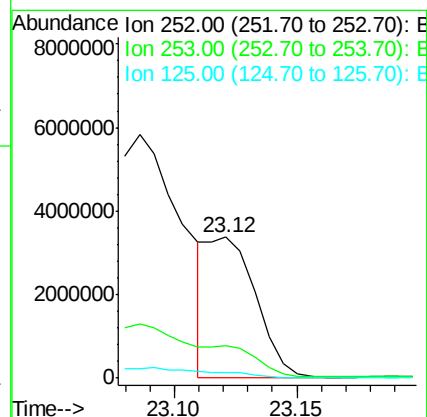
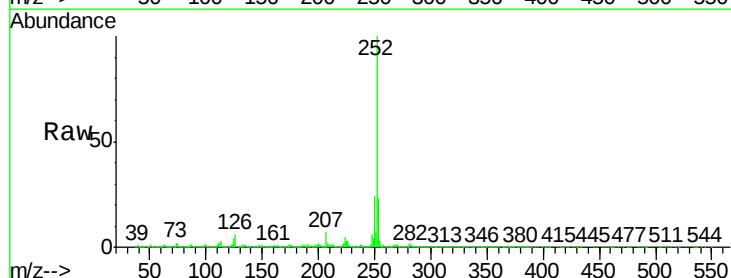
Tgt Ion:252 Resp: 4682037

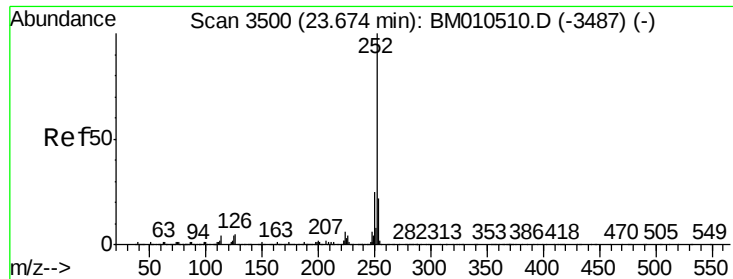
Ion Ratio Lower Upper

252 100

253 22.9 17.1 25.7

125 3.8 3.4 5.2





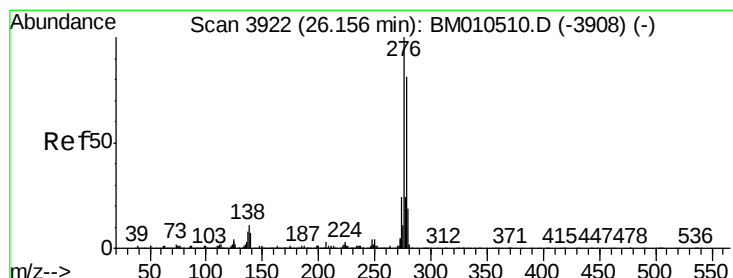
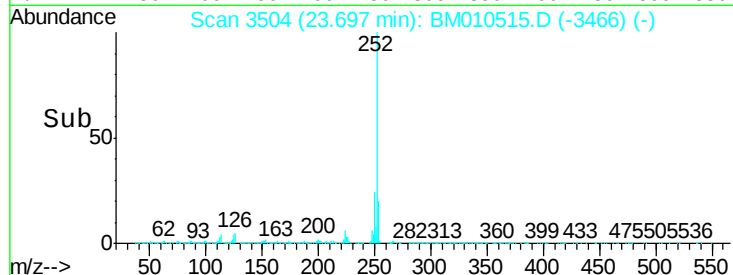
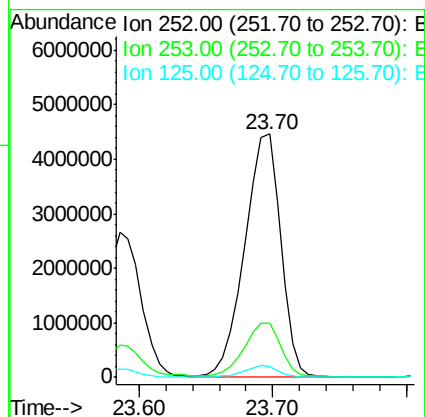
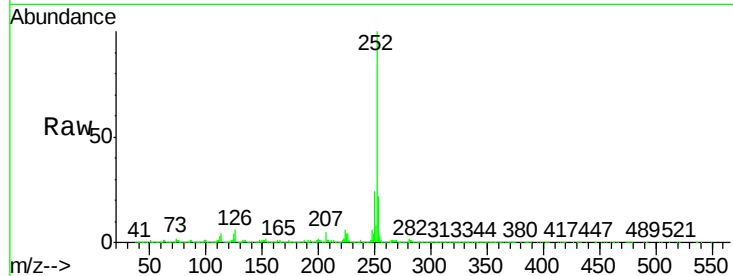
#88
Benzo(a)pyrene
Concen: 91.457 ng/ul
RT: 23.70 min Scan# 3504
Delta R.T. 0.02 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Instrument :
BNA_M
ClientSampleId :
F5C32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.2
125	4.3	4.0	6.0

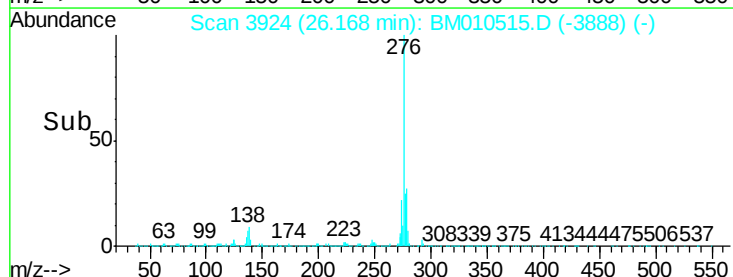
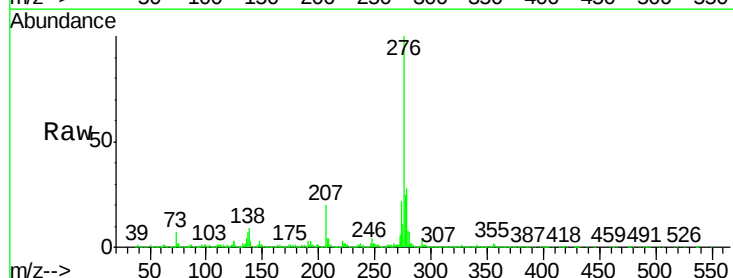
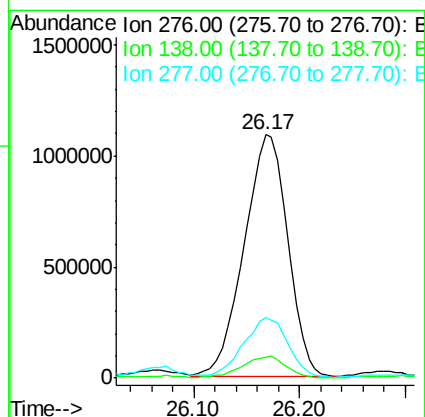
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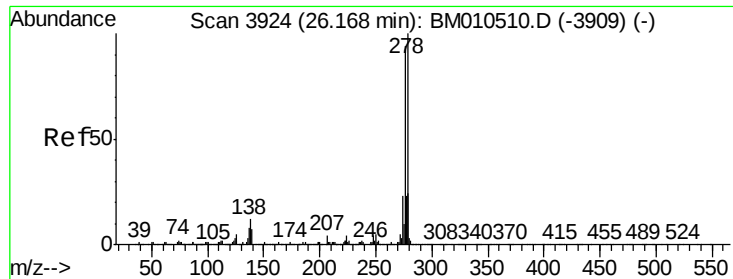
mohammad
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#89
Indeno(1,2,3-cd)pyrene
Concen: 27.348 ng/ul
RT: 26.17 min Scan# 3924
Delta R.T. 0.01 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	8.7	9.3	13.9#
277	25.1	19.9	29.9





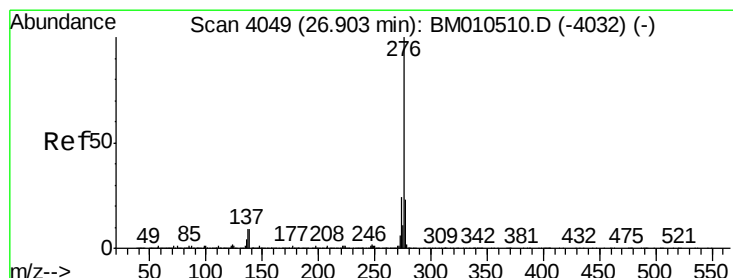
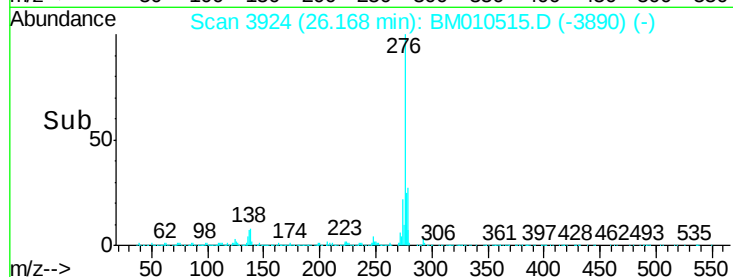
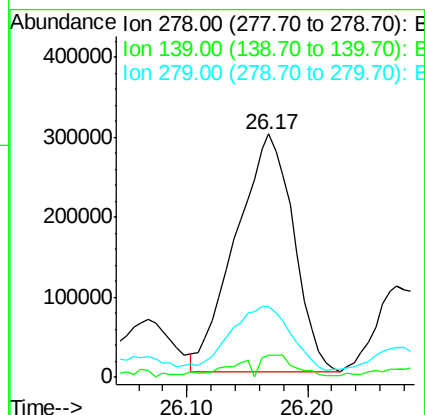
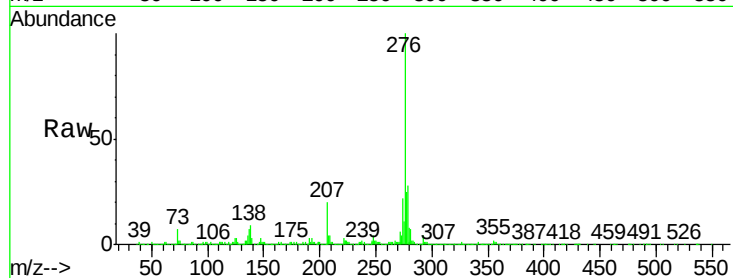
#90
Dibenzo(a,h)anthracene
Concen: 9.936 ng/ul
RT: 26.17 min Scan# 3924
Delta R.T. 0.00 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Instrument :
BNA_M
ClientSampleId :
F5C32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.3	5.8	8.8#
279	28.9	18.6	27.8#

Manual Integrations
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6/12/2017 3:41:18 PM



#91
Benzo(g,h,i)perylene
Concen: 24.257 ng/ul
RT: 26.91 min Scan# 4051
Delta R.T. 0.01 min
Lab File: BM010515.D
Acq: 11 Jun 2017 08:58

Tgt Ion	Ratio	Lower	Upper
276	100		
138	8.4	8.5	12.7#
277	25.1	18.6	28.0

