

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\
 Data File : BM010556.D
 Acq On : 13 Jun 2017 03:44
 Operator : SJ/MA
 Sample : I3558-09DL2 30X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F5C63DL2

Manual Integrations
 APPROVED

mohammad
 6/13/2017 3:55:05 PM

Quant Time: Jun 13 05:26:48 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jun 13 03:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	99970	20.00	ng/ul	0.00
18) Naphthalene-d8	10.69	136	349909	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.52	164	259919	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.27	188	712735	20.00	ng/ul	0.00
75) Chrysene-d12	21.44	240	1018379	20.00	ng/ul	0.00
83) Perylene-d12	23.77	264	1035114	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0d	0.00	ng/uL	
5) Phenol-d5	7.07	99	4110	0.54	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	3168	0.74	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	3447m	0.57	ng/ul	0.00
13) 4-Methylphenol-d8	8.61	113	3475m	0.57	ng/ul	0.00
19) Nitrobenzene-d5	9.07	128	2594m	1.01	ng/ul	0.00
22) 2-Nitrophenol-d4	9.80	143	1789	0.60	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.33	165	2447m	0.40	ng/ul	0.01
29) 4-Chloroaniline-d4	0.00	131	0d	0.00	ng/ul	
43) Dimethylphthalate-d6	13.94	166	17288	0.80	ng/ul	0.00
46) Acenaphthylene-d8	14.22	160	18449	0.73	ng/ul	0.00
51) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
57) Fluorene-d10	15.52	176	18817	0.99	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.64	200	1866	0.37	ng/ul	0.00
70) Anthracene-d10	17.36	188	29813	0.86	ng/ul	-0.01
76) Pyrene-d10	19.66	212	33910	0.81	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.62	264	35530	0.74	ng/ul	0.00

Target Compounds

					Qvalue	
28) Naphthalene	10.74	128	672038	38.292	ng/ul	98
34) 2-Methylnaphthalene	12.34	142	222698	16.736	ng/ul	96
40) 1,1'-Biphenyl	13.36	154	71481	3.390	ng/ul	99
49) Acenaphthene	14.59	153	263721	15.274	ng/ul	95
53) Dibenzofuran	14.92	168	317076	12.419	ng/ul	95
58) Fluorene	15.57	166	320230	15.291	ng/ul#	93
69) Phenanthrene	17.32	178	1803765	47.406	ng/ul	98
71) Anthracene	17.40	178	306092	7.706	ng/ul	98
72) Carbazole	17.69	167	75672	2.251	ng/ul	99
74) Fluoranthene	19.32	202	1191414	25.463	ng/ul#	95
77) Pyrene	19.69	202	820212	15.630	ng/ul#	93
80) Benzo(a)anthracene	21.42	228	320670	5.584	ng/ul	95
82) Chrysene	21.47	228	259095	4.991	ng/ul	96
85) Benzo(b)fluoranthene	23.06	252	227913	3.784	ng/ul#	99
86) Benzo(k)fluoranthene	23.10	252	91402	1.589	ng/ul#	97
88) Benzo(a)pyrene	23.67	252	158258	2.651	ng/ul	97

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

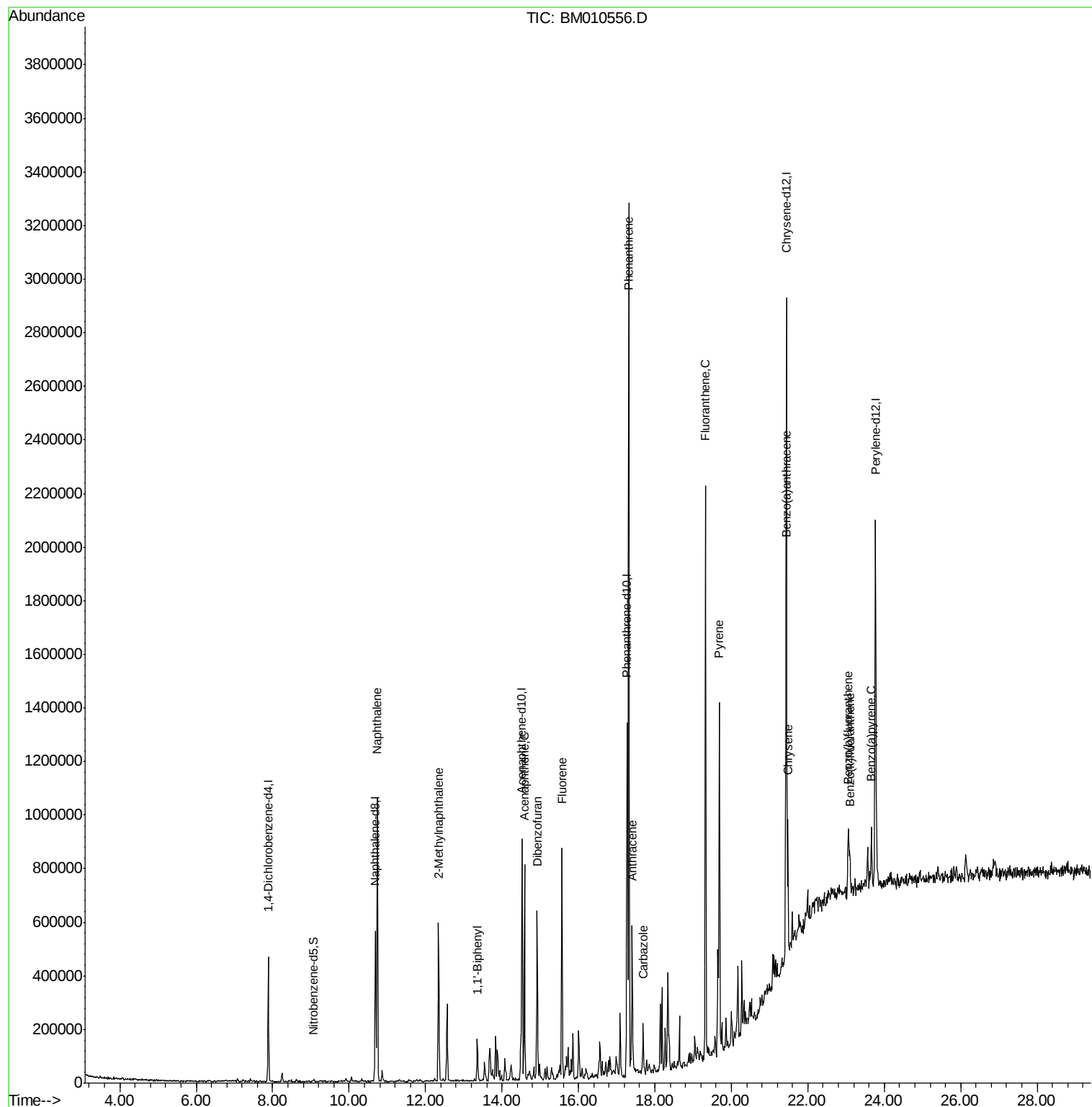
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\
Data File : BM010556.D
Acq On : 13 Jun 2017 03:44
Operator : SJ/MA
Sample : I3558-09DL2 30X
Misc :
ALS Vial : 30 Sample Multiplier: 1

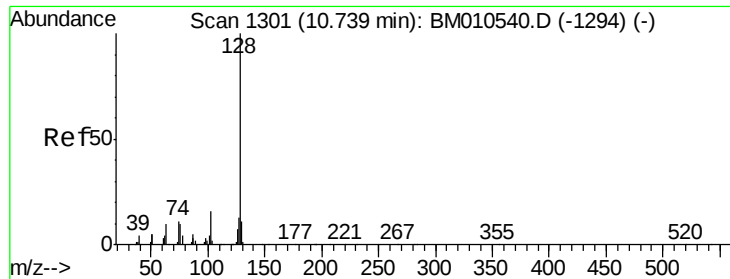
Instrument :
BNA_M
ClientSampleId :
F5C63DL2

Manual Integrations
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6/13/2017 3:55:05 PM

Quant Time: Jun 13 05:26:48 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
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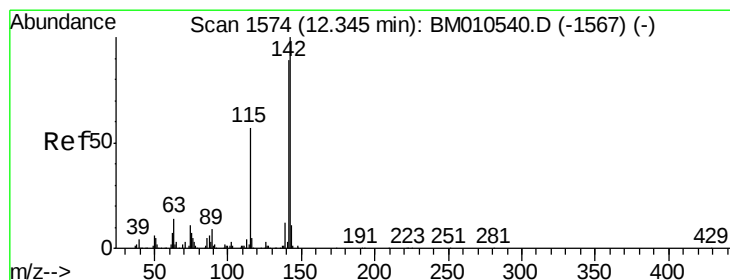
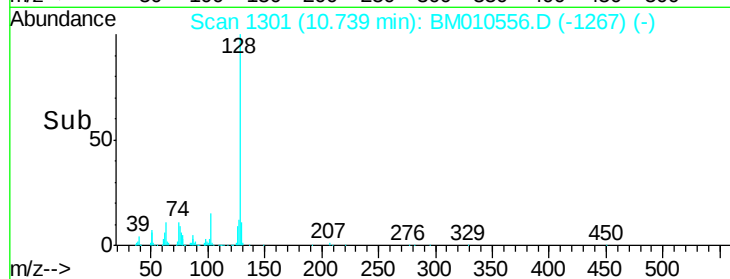
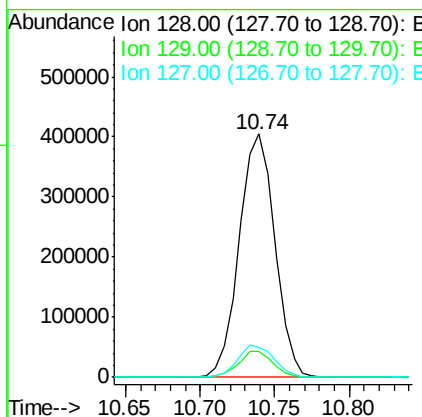
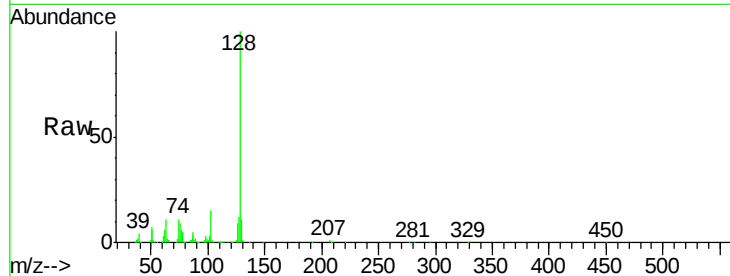
#28
Naphthalene
Concen: 38.292 ng/ul
RT: 10.74 min Scan# 1301
Delta R.T. 0.00 min
Lab File: BM010556.D
Acq: 13 Jun 2017 03:44

Instrument :
BNA_M
ClientSampled :
F5C63DL2

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	12.2	10.6	16.0

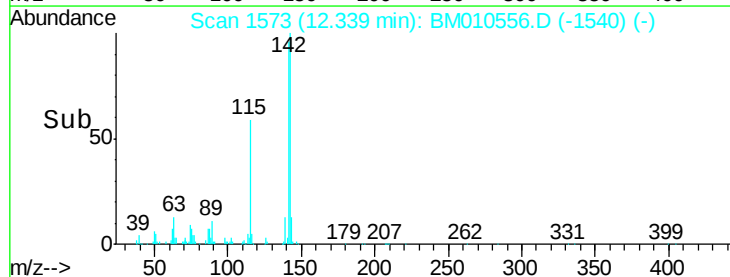
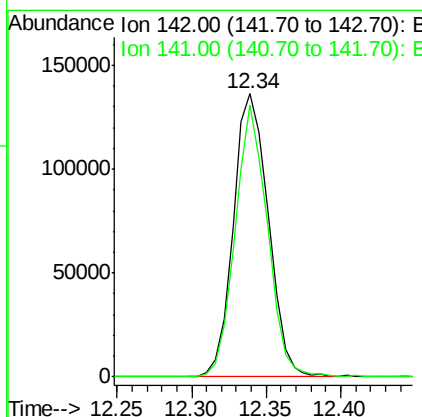
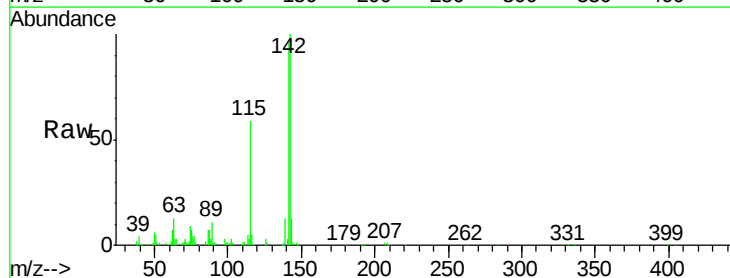
Manual Integrations
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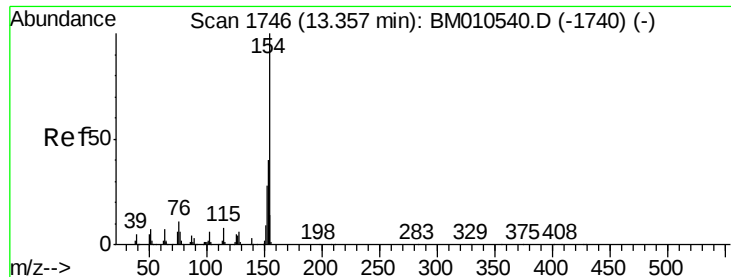
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#34
2-Methylnaphthalene
Concen: 16.736 ng/ul
RT: 12.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BM010556.D
Acq: 13 Jun 2017 03:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	96.0	74.1	111.1





#40

1,1'-Biphenyl

Concen: 3.390 ng/ul

RT: 13.36 min Scan# 1746

Delta R.T. 0.00 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

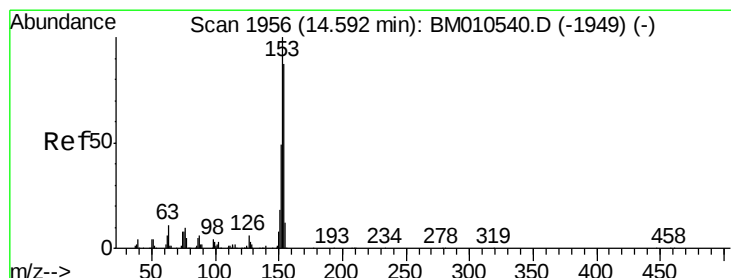
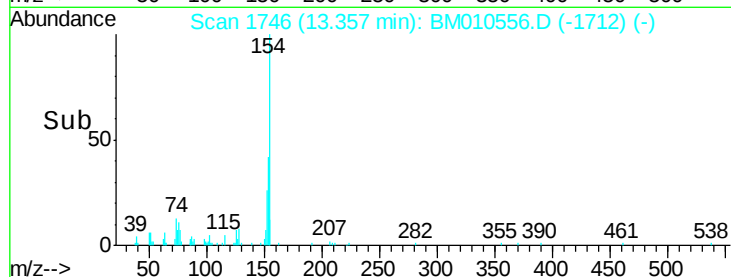
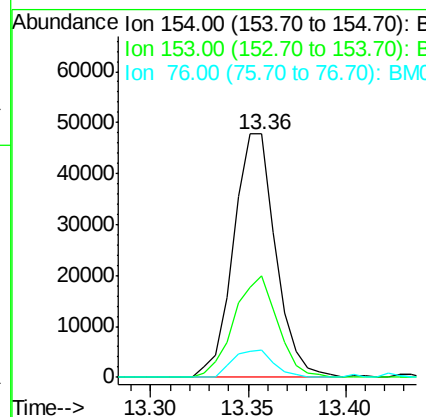
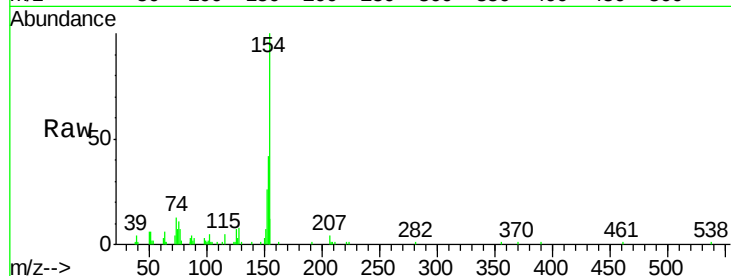
ClientSampleId :

F5C63DL2

Tgt Ion:	154	Resp:	71481
Ion Ratio	Lower	Upper	
154	100		
153	41.5	32.6	48.8
76	11.1	8.5	12.7

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#49

Acenaphthene

Concen: 15.274 ng/ul

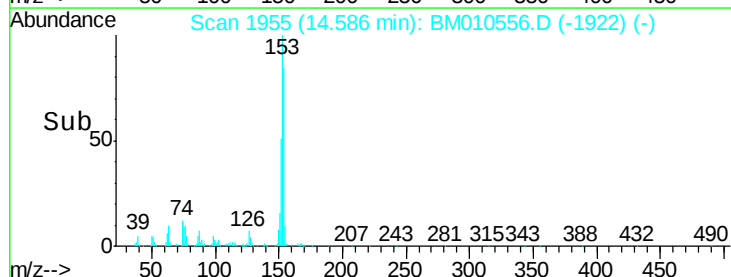
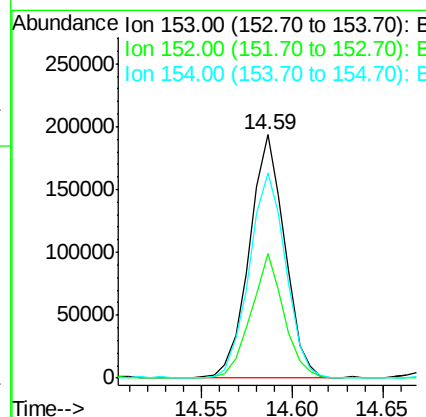
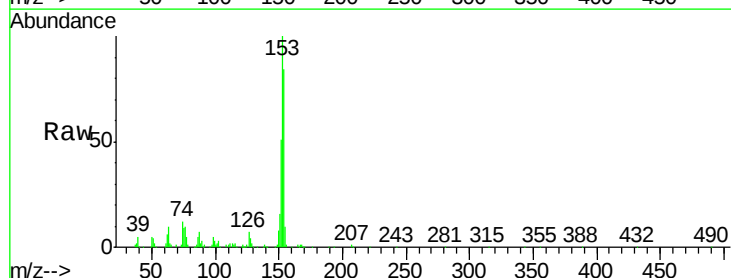
RT: 14.59 min Scan# 1955

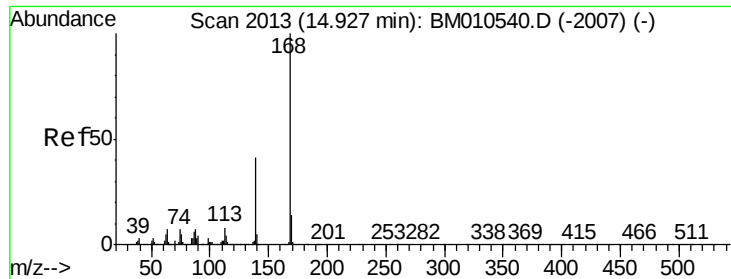
Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Tgt Ion:	153	Resp:	263721
Ion Ratio	Lower	Upper	
153	100		
152	51.3	37.6	56.4
154	84.0	70.4	105.6





#53

Dibenzofuran

Concen: 12.419 ng/ul

RT: 14.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

ClientSampleId :

F5C63DL2

Tgt Ion:168 Resp: 317076

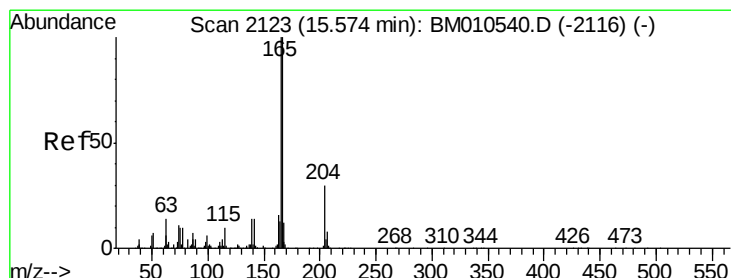
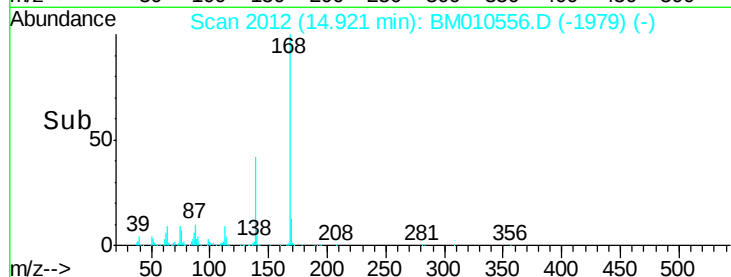
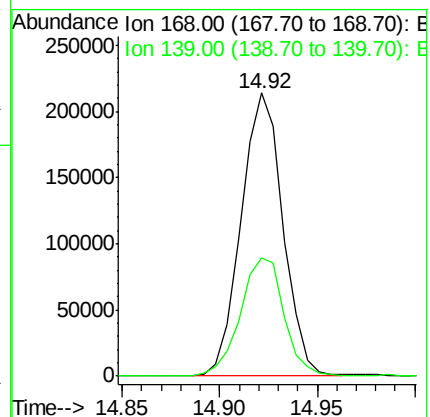
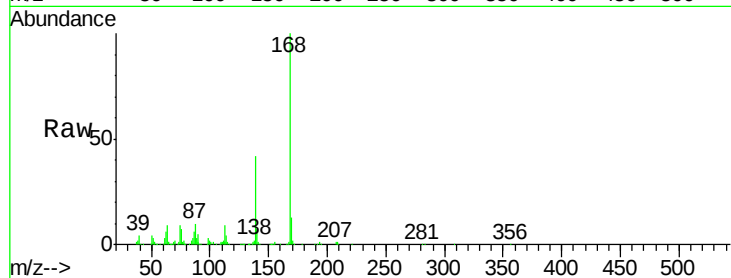
Ion Ratio Lower Upper

168 100

139 41.7 30.8 46.2

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#58

Fluorene

Concen: 15.291 ng/ul

RT: 15.57 min Scan# 2122

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

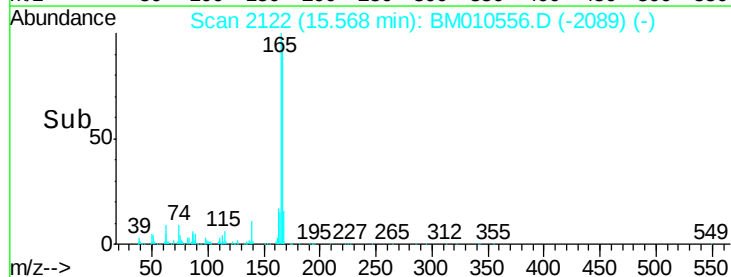
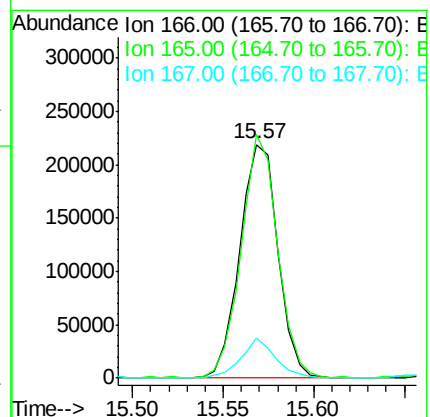
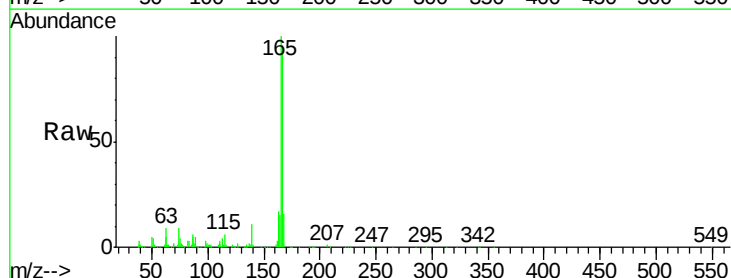
Tgt Ion:166 Resp: 320230

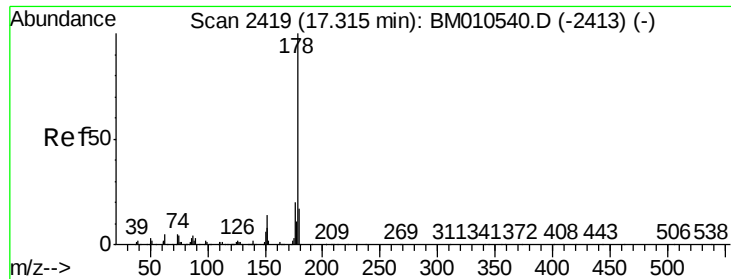
Ion Ratio Lower Upper

166 100

165 104.1 77.9 116.9

167 16.9 10.6 16.0#





#69

Phenanthrene

Concen: 47.406 ng/ul

RT: 17.32 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

ClientSampleId :

F5C63DL2

Tgt Ion:178 Resp: 1803765

Ion Ratio Lower Upper

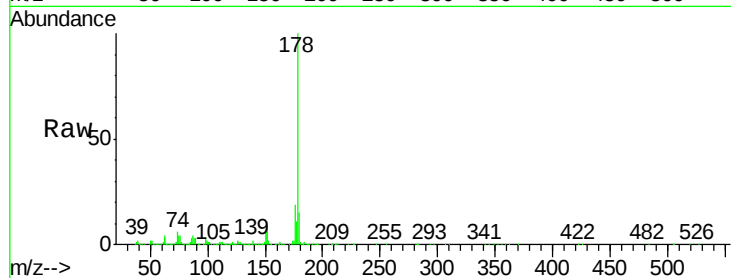
178 100

179 14.5 12.6 19.0

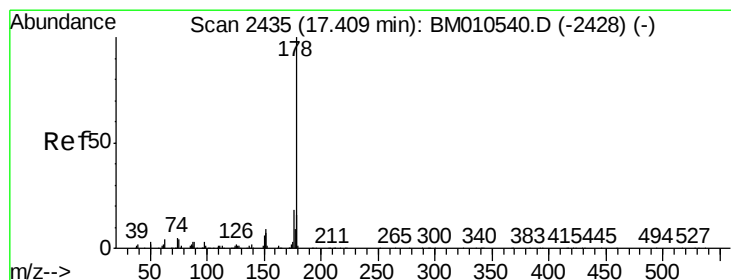
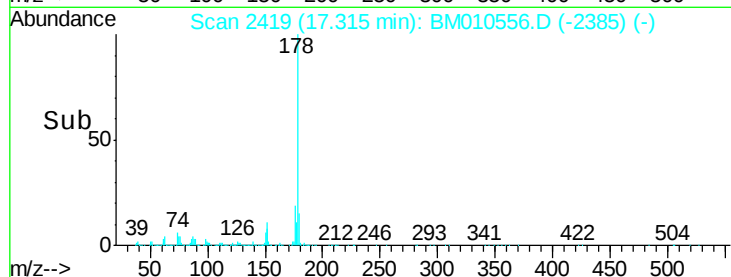
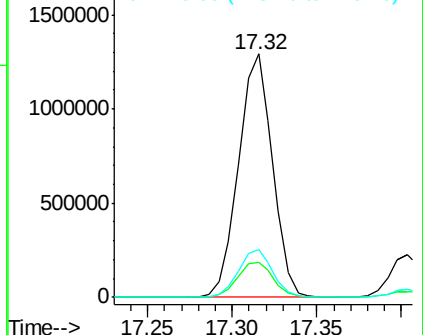
176 19.5 14.9 22.3

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 7.706 ng/ul

RT: 17.40 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Tgt Ion:178 Resp: 306092

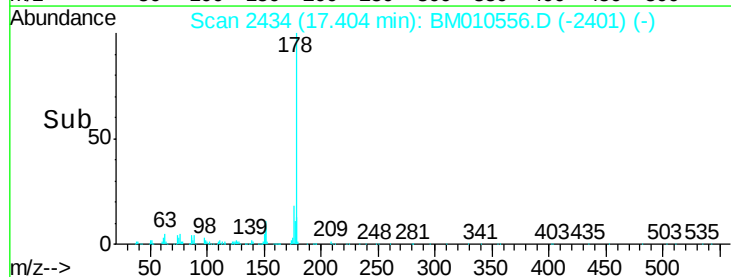
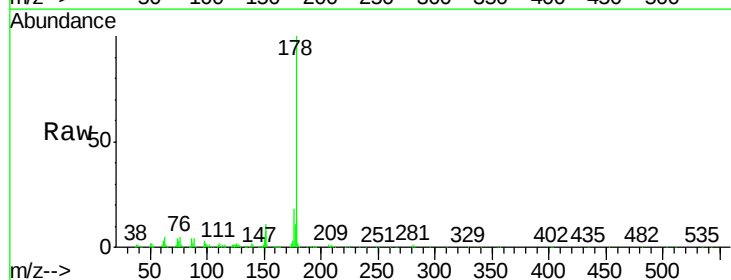
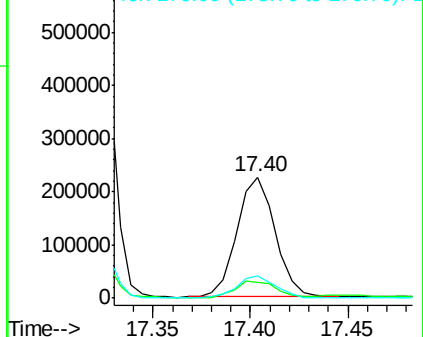
Ion Ratio Lower Upper

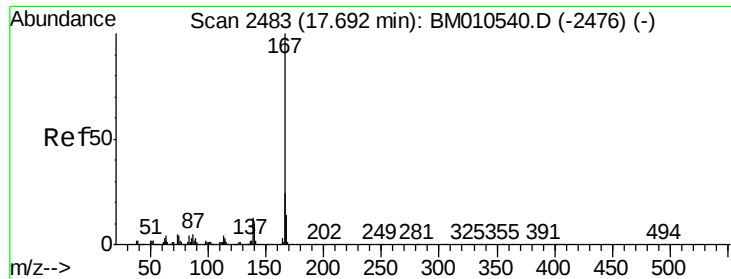
178 100

179 12.7 11.7 17.5

176 18.4 14.6 21.8

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

Carbazole

Concen: 2.251 ng/ul

RT: 17.69 min Scan# 2483

Delta R.T. 0.00 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

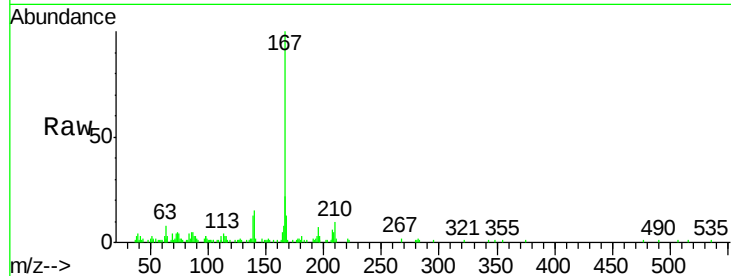
ClientSampleId :

F5C63DL2

Tgt Ion:	167	Resp:	75672
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.1	25.7
139	13.4	10.0	15.0

Manual Integrations
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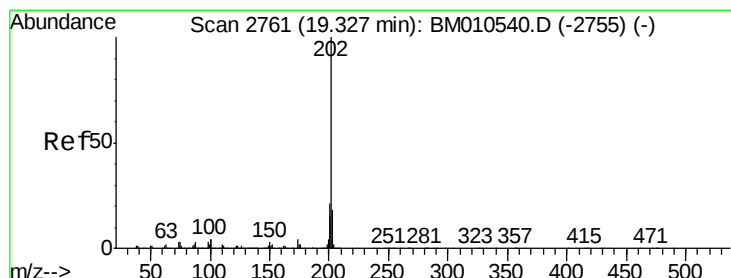
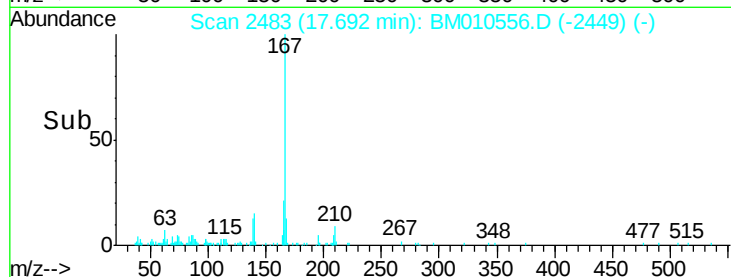
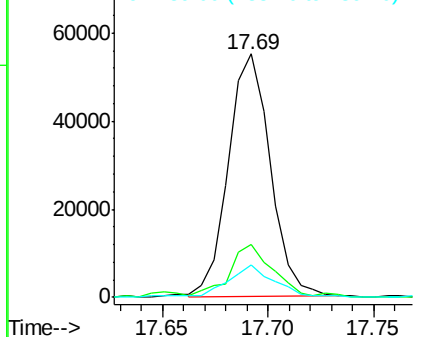
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 25.463 ng/ul

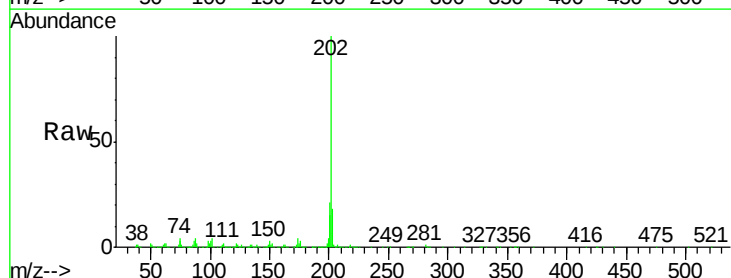
RT: 19.32 min Scan# 2760

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

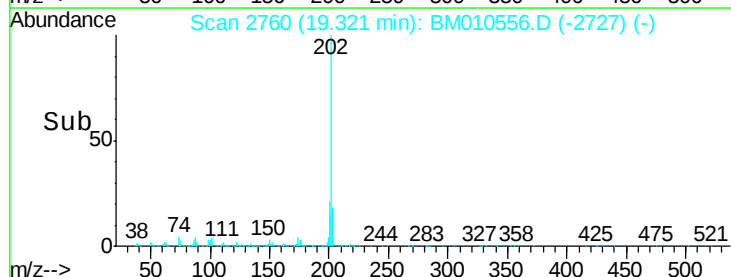
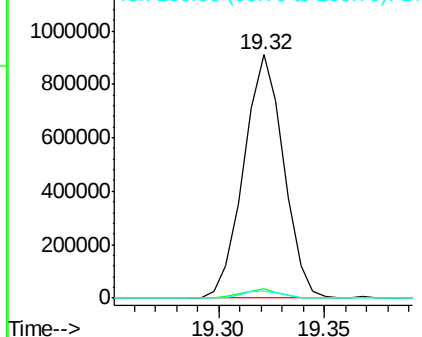
Tgt Ion:	202	Resp:	1191414
Ion Ratio	Lower	Upper	
202	100		
101	3.7	4.6	7.0#
100	3.1	3.4	5.2#

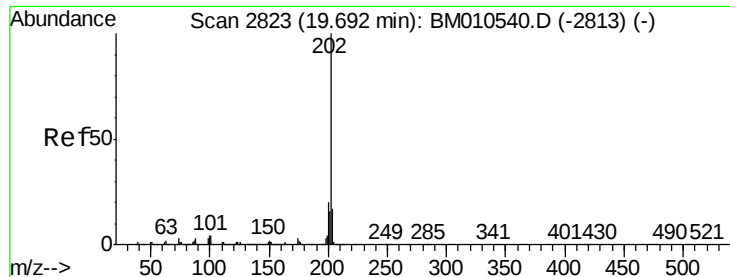


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 15.630 ng/ul

RT: 19.69 min Scan# 2822

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

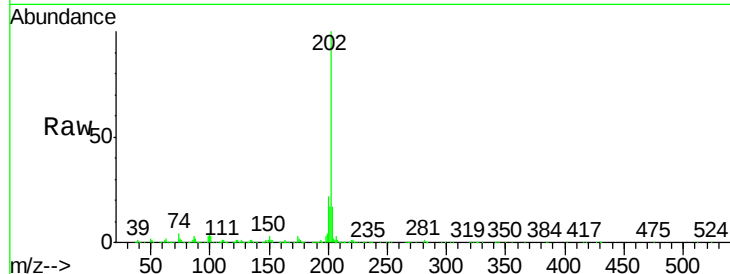
ClientSampleId :

F5C63DL2

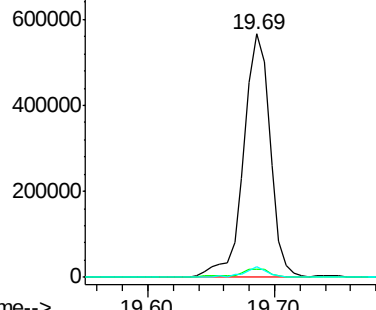
Tgt Ion:	202	Resp:	820212
Ion Ratio	Lower	Upper	
202	100		
101	3.4	5.1	7.7#
100	4.2	4.9	7.3#

Manual Integrations
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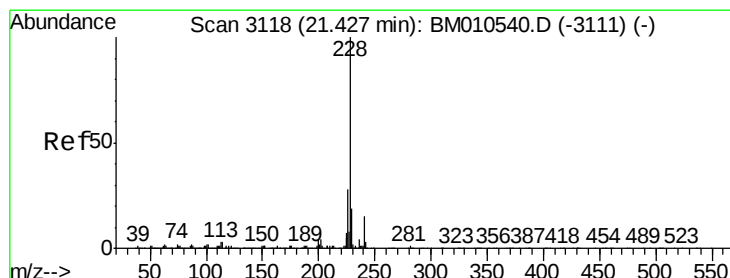
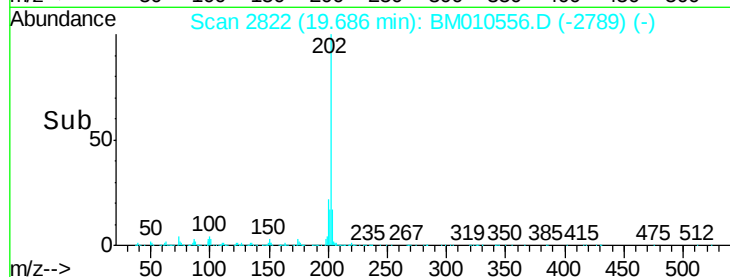
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Abundance Ion 202.00 (201.70 to 202.70): E



Time-->



#80

Benzo(a)anthracene

Concen: 5.584 ng/ul

RT: 21.42 min Scan# 3117

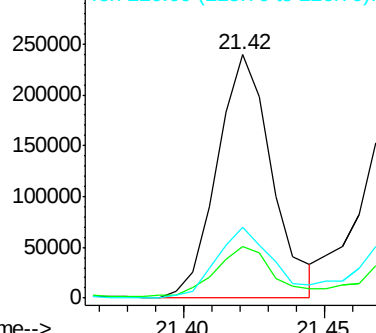
Delta R.T. -0.01 min

Lab File: BM010556.D

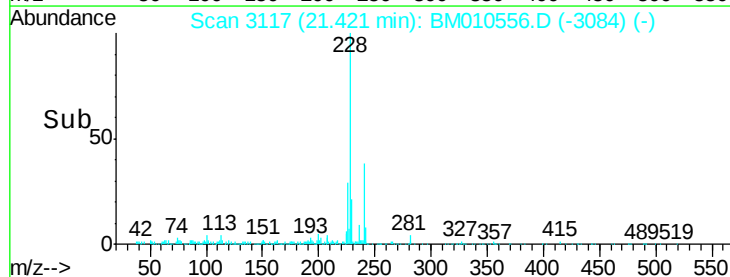
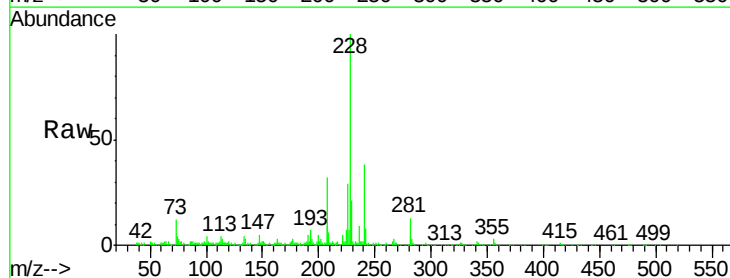
Acq: 13 Jun 2017 03:44

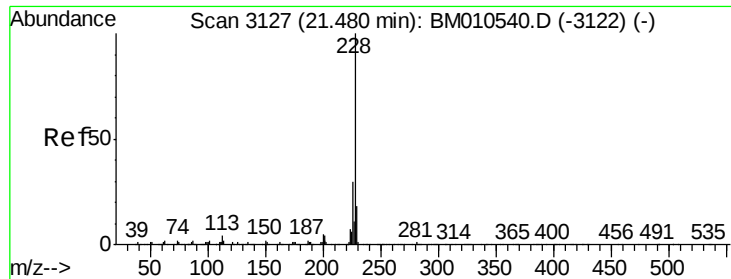
Tgt Ion:	228	Resp:	320670
Ion Ratio	Lower	Upper	
228	100		
229	21.0	15.4	23.0
226	29.3	21.4	32.0

Abundance Ion 228.00 (227.70 to 228.70): E



Time-->





#82

Chrysene

Concen: 4.991 ng/ul

RT: 21.47 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Instrument :

BNA_M

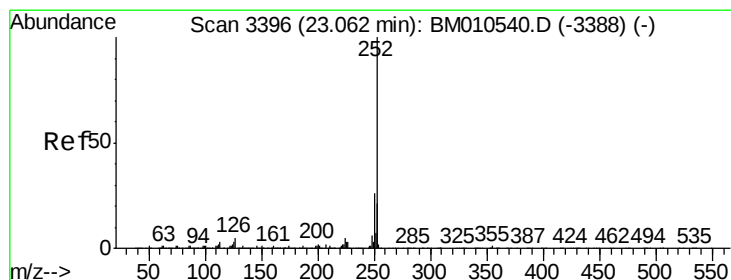
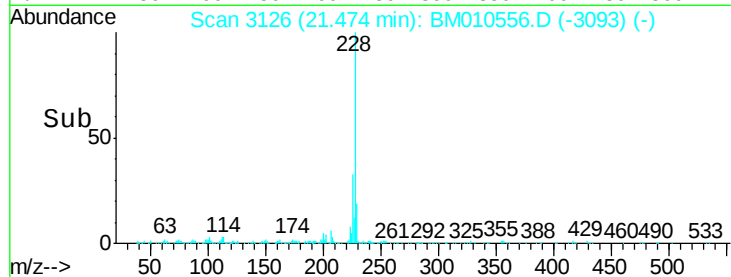
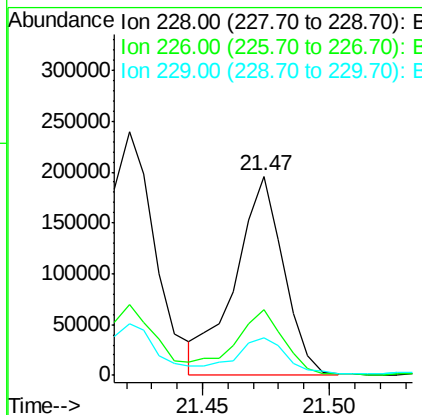
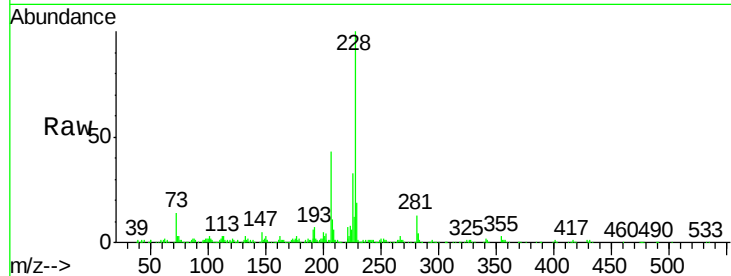
ClientSampleId :

F5C63DL2

Tgt Ion:	228	Resp:	259095
Ion Ratio	Lower	Upper	
228	100		
226	32.8	23.4	35.2
229	19.1	15.5	23.3

Manual Integrations
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mohammad
6/13/2017 3:55:05 PM



#85

Benzo(b)fluoranthene

Concen: 3.784 ng/ul

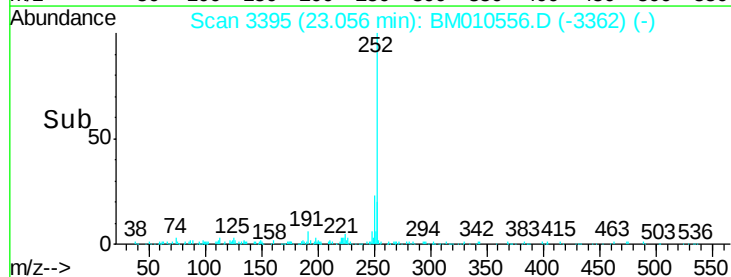
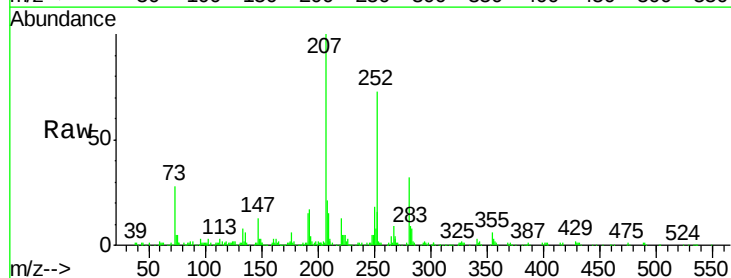
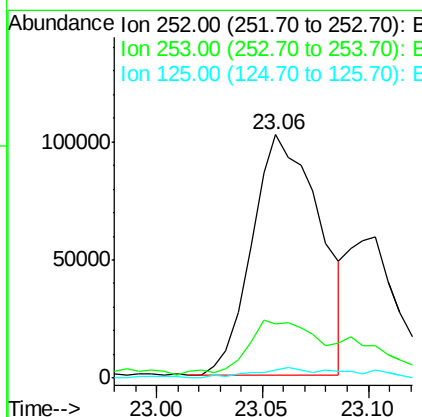
RT: 23.06 min Scan# 3395

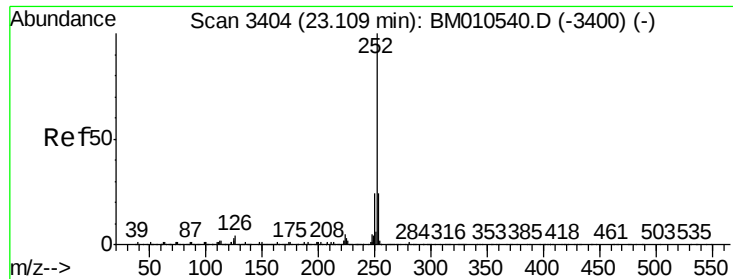
Delta R.T. -0.01 min

Lab File: BM010556.D

Acq: 13 Jun 2017 03:44

Tgt Ion:	252	Resp:	227913
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.9	26.9
125	3.4	3.6	5.4#





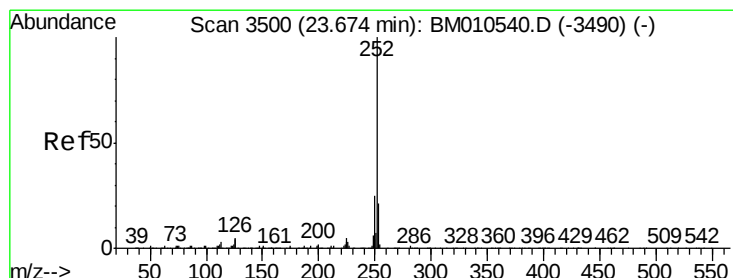
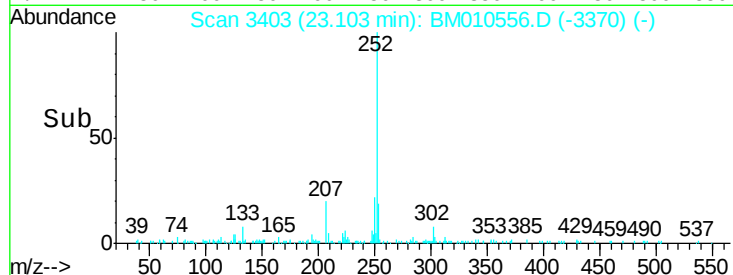
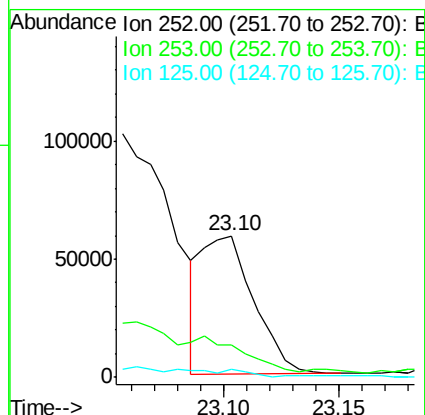
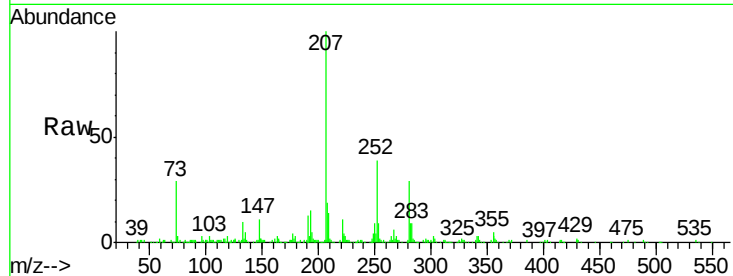
#86
Benzo(k)fluoranthene
Concen: 1.589 ng/u1
RT: 23.10 min Scan# 3403
Delta R.T. -0.01 min
Lab File: BM010556.D
Acq: 13 Jun 2017 03:44

Instrument :
BNA_M
ClientSampleId :
F5C63DL2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	6.0	3.4	5.2

Manual Integrations
APPROVED

mohammad
6/13/2017 3:55:05 PM



#88
Benzo(a)pyrene
Concen: 2.651 ng/u1
RT: 23.67 min Scan# 3499
Delta R.T. -0.01 min
Lab File: BM010556.D
Acq: 13 Jun 2017 03:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.2	27.2
125	4.2	4.0	6.0

