

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM120617\
 Data File : BM013236.D
 Acq On : 07 Dec 2017 07:03
 Operator : SJ/JU
 Sample : I6713-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE1B2

Manual Integrations
 APPROVED

Sohil
 12/7/2017 11:41:42 AM

Quant Time: Dec 07 08:13:30 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 07 04:35:17 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	390266	20.00	ng/ul	0.00
18) Naphthalene-d8	10.49	136	1661318	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.35	164	913725	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.10	188	1773948	20.00	ng/ul	0.01
75) Chrysene-d12	21.29	240	1201444	20.00	ng/ul	0.01
83) Perylene-d12	23.52	264	1135015	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.25	96	25929	3.29	ng/uL	0.00
5) Phenol-d5	6.88	99	756050	22.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.05	67	435628	22.62	ng/ul	0.00
9) 2-Chlorophenol-d4	7.24	132	624098	23.65	ng/ul	0.00
13) 4-Methylphenol-d8	8.41	113	633665	21.97	ng/ul	0.00
19) Nitrobenzene-d5	8.86	128	313664	23.81	ng/ul	0.00
22) 2-Nitrophenol-d4	9.57	143	345202	24.48	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.11	165	669231	23.03	ng/ul	0.00
29) 4-Chloroaniline-d4	10.63	131	558116	20.90	ng/ul	0.00
43) Dimethylphthalate-d6	13.76	166	1942314	23.89	ng/ul	0.00
46) Acenaphthylene-d8	14.04	160	2442582	24.34	ng/ul	0.00
51) 4-Nitrophenol-d4	14.56	143	288012	20.39	ng/ul	0.01
57) Fluorene-d10	15.35	176	1612297	23.06	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.47	200	134040	12.01	ng/ul	0.00
70) Anthracene-d10	17.20	188	2244299	25.26	ng/ul	0.01
76) Pyrene-d10	19.49	212	1935311	32.33	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.38	264	1436181	24.84	ng/ul	0.02

Target Compounds

					Ovalue	
4) Benzaldehyde	6.86	77	39327	2.354	ng/ul#	69
6) Phenol	6.91	94	159651	4.783	ng/ul#	78
11) 2-Methylphenol	8.15	108	94252	3.651	ng/ul	99
14) Acetophenone	8.52	105	86651	1.975	ng/ul	87
28) Naphthalene	10.53	128	3447789	40.338	ng/ul	99
34) 2-Methylnaphthalene	12.15	142	767855	11.951	ng/ul	95
40) 1,1'-Biphenyl	13.17	154	272845	3.533	ng/ul	99
44) Dimethylphthalate	13.81	163	534206	6.869	ng/ul	97
49) Acenaphthene	14.41	153	823555	13.020	ng/ul	98
53) Dibenzofuran	14.75	168	1043598	11.176	ng/ul	98
58) Fluorene	15.40	166	786465	10.181	ng/ul	99
69) Phenanthrene	17.14	178	4972579	49.340	ng/ul	99
71) Anthracene	17.23	178	1204356	11.691	ng/ul	98
72) Carbazole	17.50	167	376827	4.253	ng/ul	99
74) Fluoranthene	19.16	202	4062362	32.892	ng/ul#	93
77) Pyrene	19.52	202	3111511	42.629	ng/ul#	92
80) Benzo(a)anthracene	21.27	228	1245040	16.333	ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.20	149	450866	10.489	ng/ul	99
82) Chrysene	21.32	228	1076950	15.228	ng/ul	96
85) Benzo(b)fluoranthene	22.85	252	1239627	16.202	ng/ul#	95
86) Benzo(k)fluoranthene	22.89	252	418938m	5.818	ng/ul	
88) Benzo(a)pyrene	23.43	252	851988	12.396	ng/ul#	94
89) Indeno(1,2,3-cd)pyrene	25.77	276	529930	7.771	ng/ul#	95

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ALS Vial : 27 Sample Multiplier: 1

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BNA_M
ClientSampleId :
BE1B2

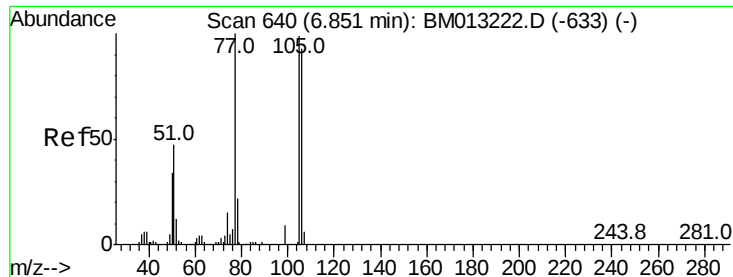
Manual Integrations
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12/7/2017 11:41:42 AM

Quant Time: Dec 07 08:13:30 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 07 04:35:17 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	25.77	278	145783	2.510	ng/ul#	62
91) Benzo(g,h,i)perylene	26.46	276	474061	8.813	ng/ul#	92

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



#4

Benzaldehyde

Concen: 2.354 ng/ul

RT: 6.86 min Scan# 641

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampled :

BE1B2

Tot Ion: 77 Resp: 39327

Ion Ratio Lower Upper

77 100

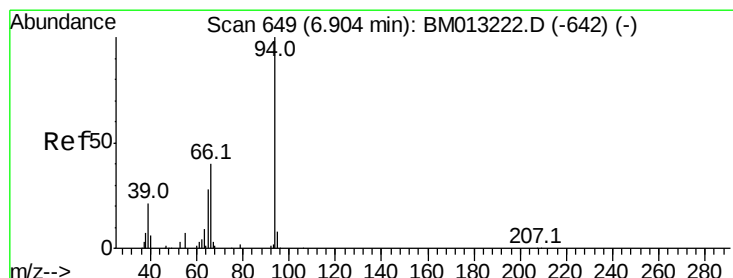
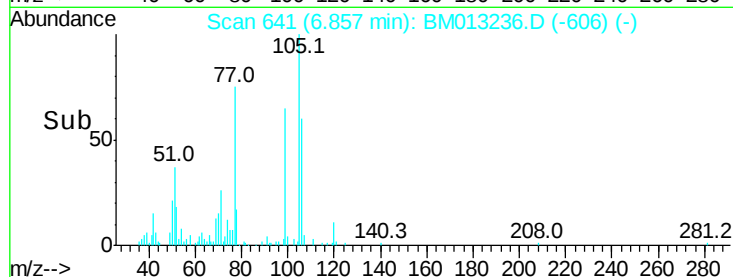
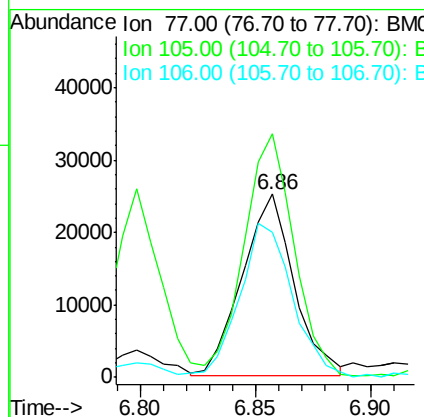
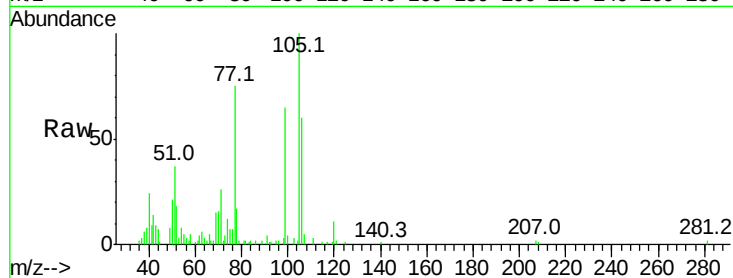
105 132.7 66.1 99.1#

106 79.2 67.8 101.6

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#6

Phenol

Concen: 4.783 ng/ul

RT: 6.91 min Scan# 650

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

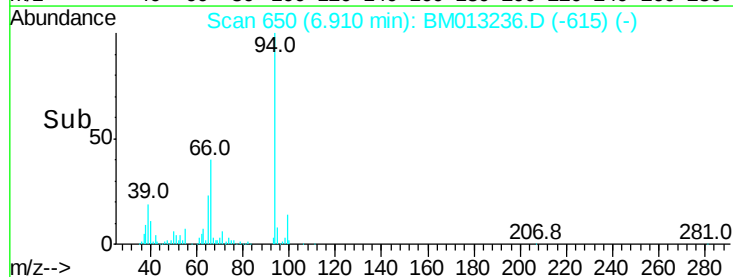
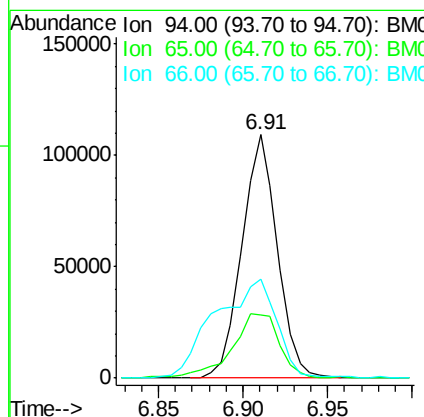
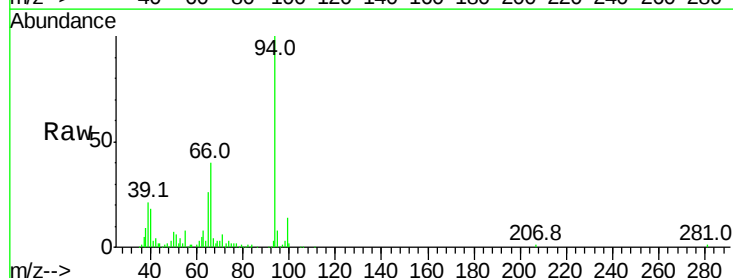
Tgt Ion: 94 Resp: 159651

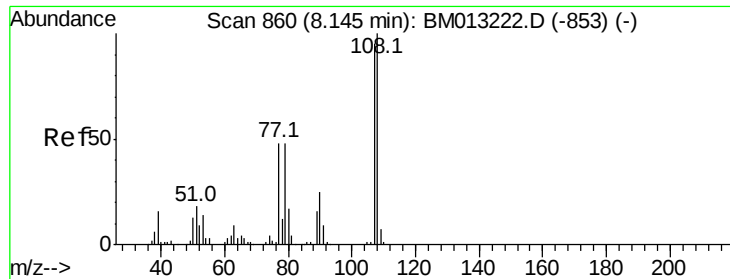
Ion Ratio Lower Upper

94 100

65 25.8 28.2 42.4#

66 40.4 47.2 70.8#





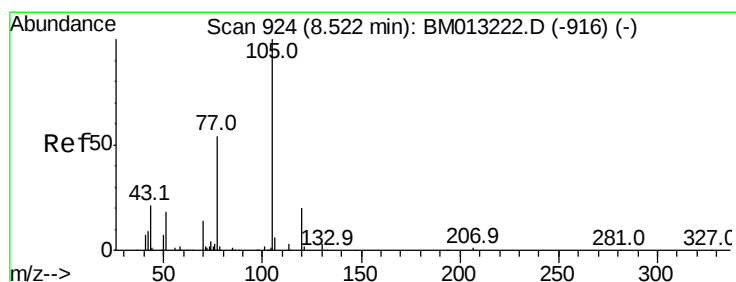
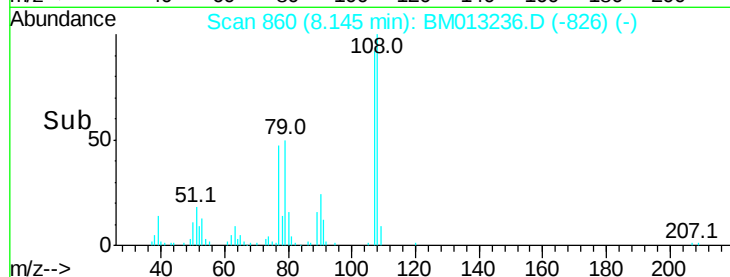
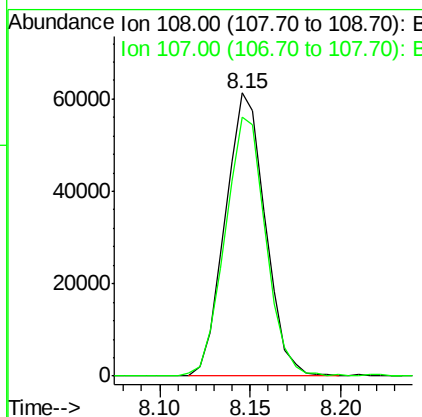
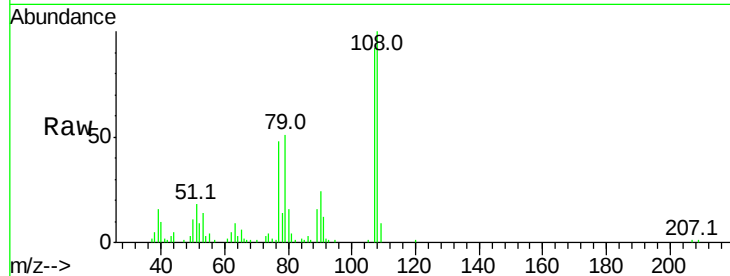
#11
2-Methylphenol
Concen: 3.651 ng/ul
RT: 8.15 min Scan# 860
Delta R.T. 0.00 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Instrument :
BNA_M
ClientSampleId :
BE1B2

Tot Ion:108 Resp: 94252
Ion Ratio Lower Upper
108 100
107 91.7 72.6 108.8

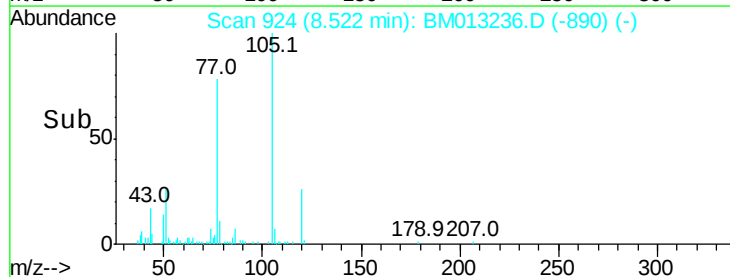
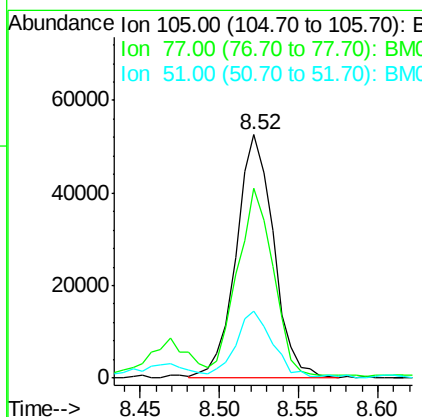
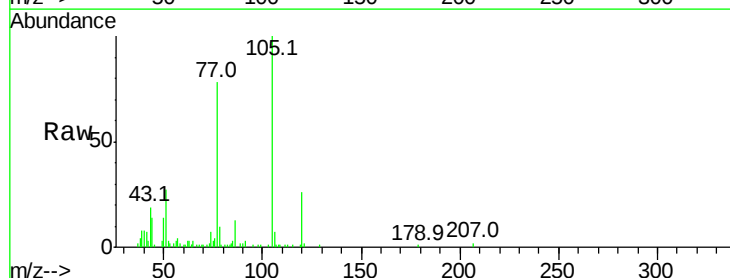
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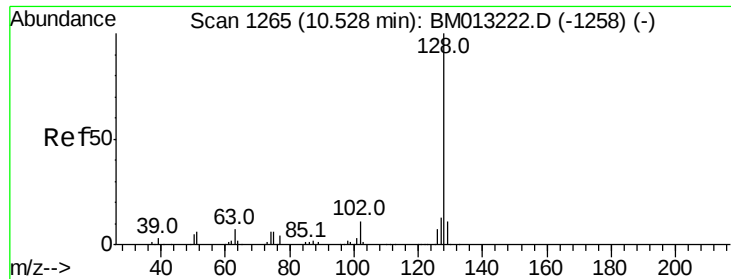
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#14
Acetophenone
Concen: 1.975 ng/ul
RT: 8.52 min Scan# 924
Delta R.T. 0.00 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion:105 Resp: 86651
Ion Ratio Lower Upper
105 100
77 77.8 74.2 111.4
51 27.4 23.4 35.2





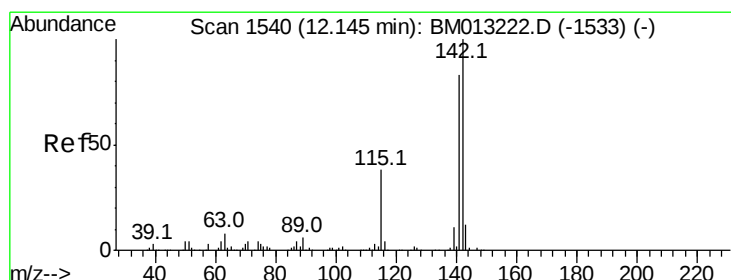
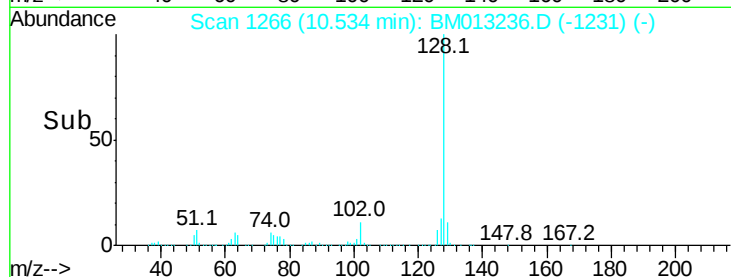
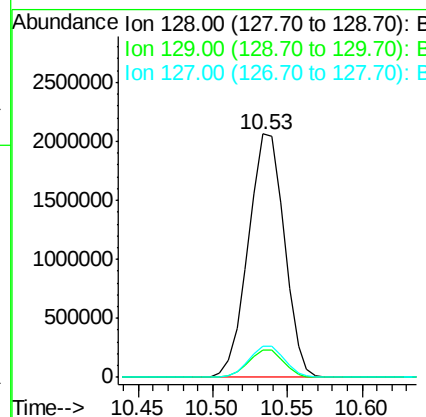
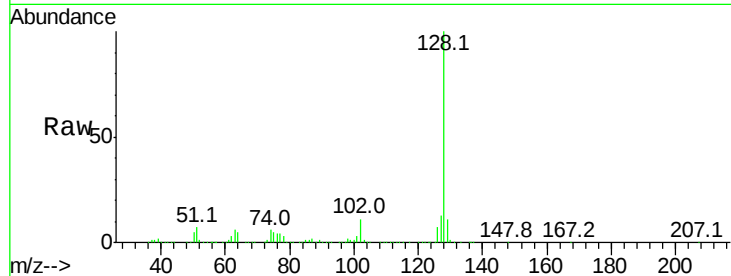
#28
Naphthalene
Concen: 40.338 ng/ul
RT: 10.53 min Scan# 1266
Delta R.T. 0.01 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Instrument :
BNA_M
ClientSampleId :
BE1B2

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.7	10.6	16.0

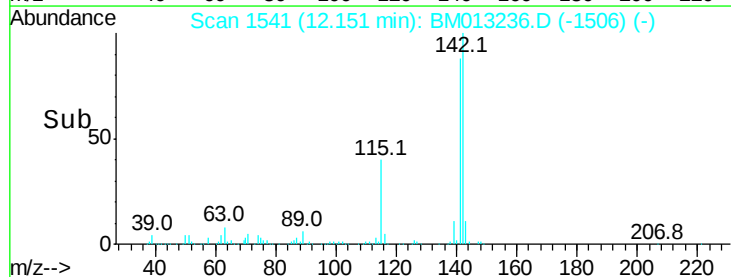
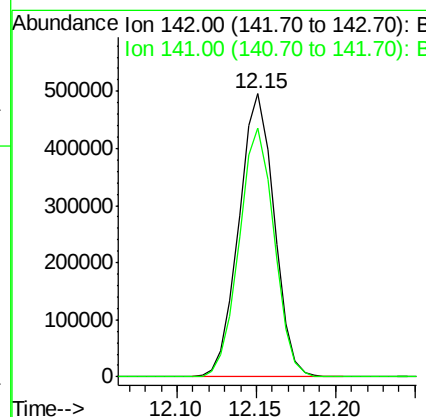
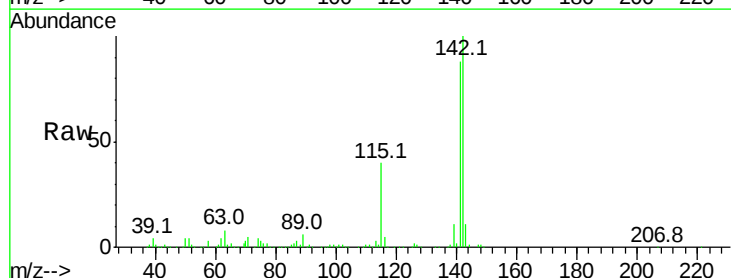
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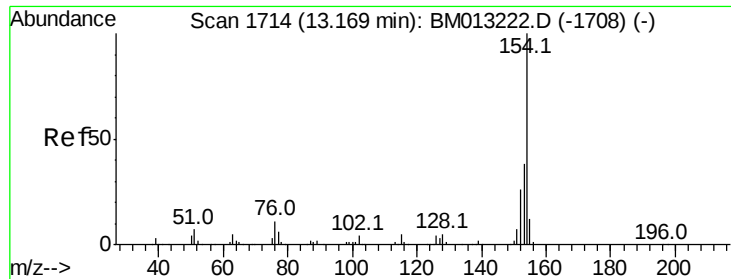
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#34
2-Methylnaphthalene
Concen: 11.951 ng/ul
RT: 12.15 min Scan# 1541
Delta R.T. 0.01 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	74.1	111.1





#40

1,1'-Biphenyl

Concen: 3.533 ng/ul

RT: 13.17 min Scan# 1715

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

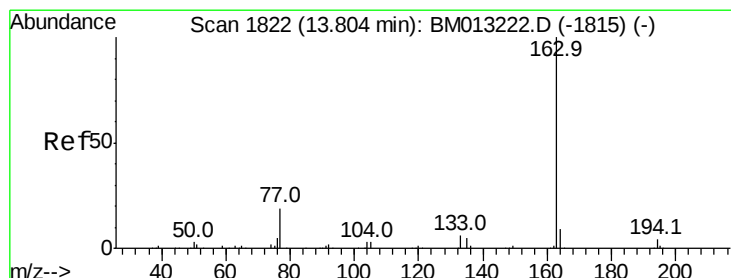
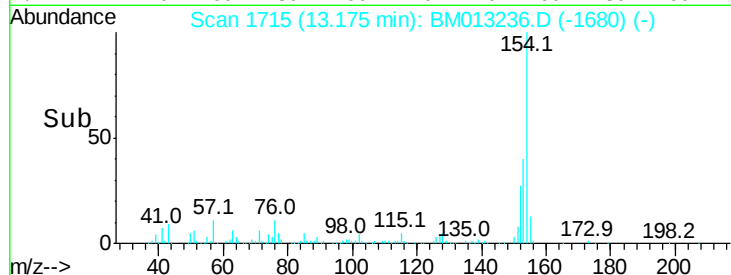
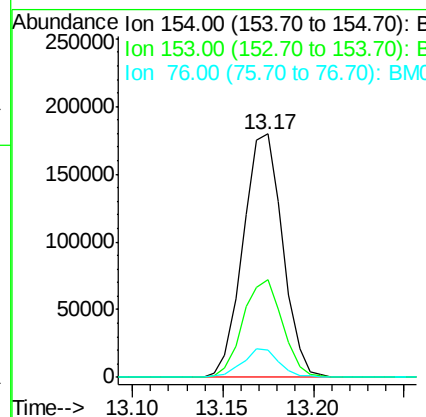
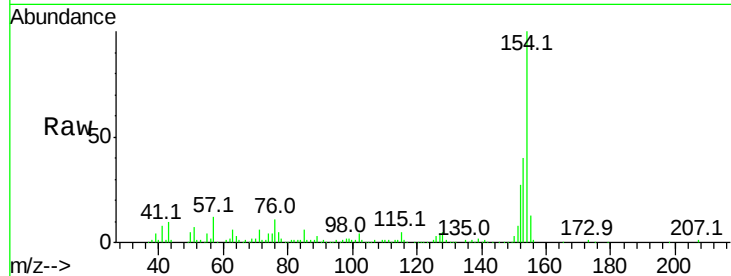
ClientSampleId :

BE1B2

Tot Ion:	154	Resp:	272845
Ion Ratio	Lower	Upper	
154	100		
153	40.2	32.6	48.8
76	11.3	8.5	12.7

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#44

Dimethylphthalate

Concen: 6.869 ng/ul

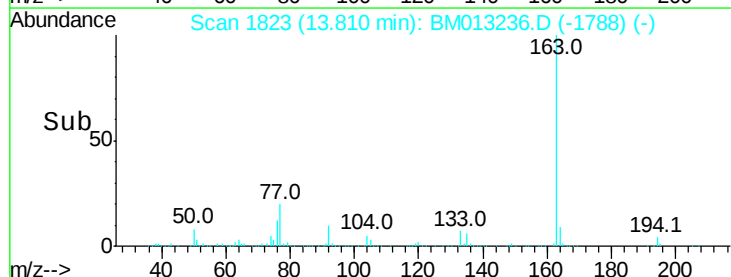
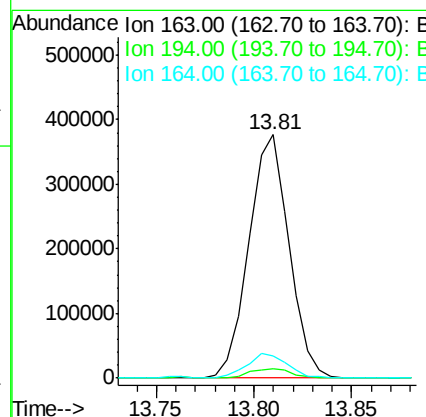
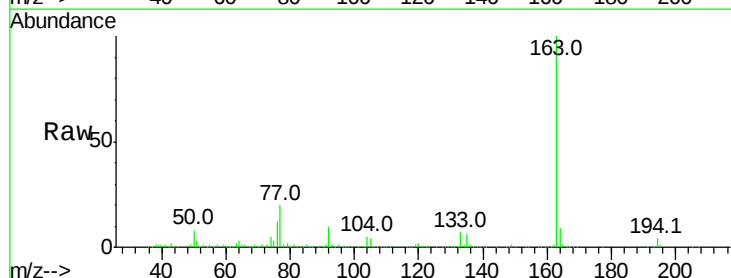
RT: 13.81 min Scan# 1823

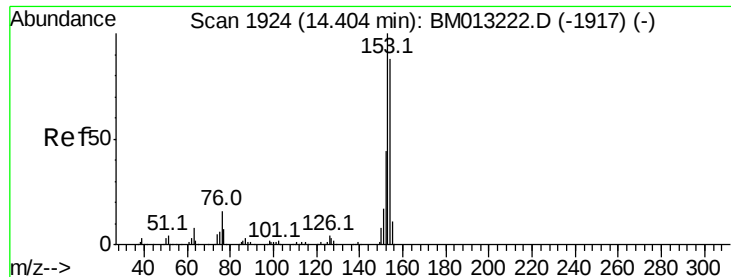
Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Tgt Ion:	163	Resp:	534206
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.5	5.3
164	9.1	8.2	12.4





#49

Acenaphthene

Concen: 13.020 ng/ul

RT: 14.41 min Scan# 1925

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

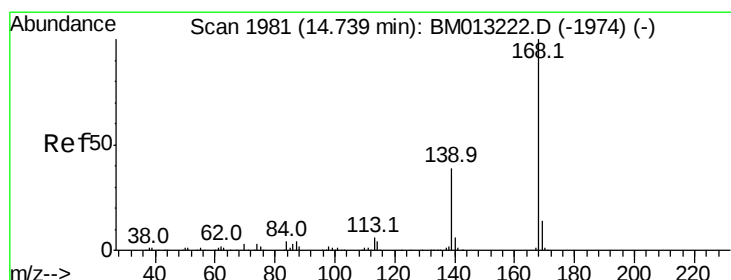
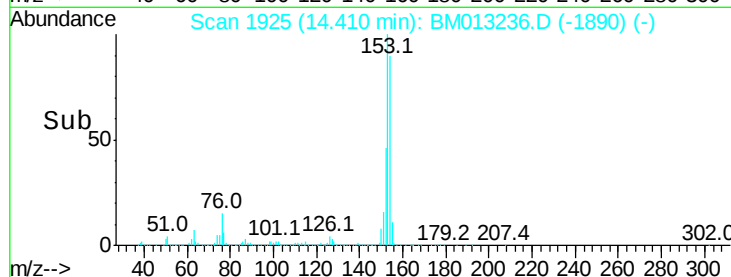
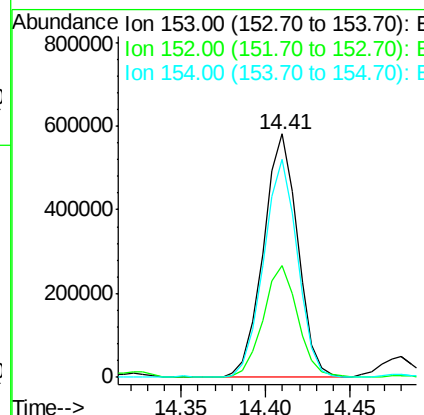
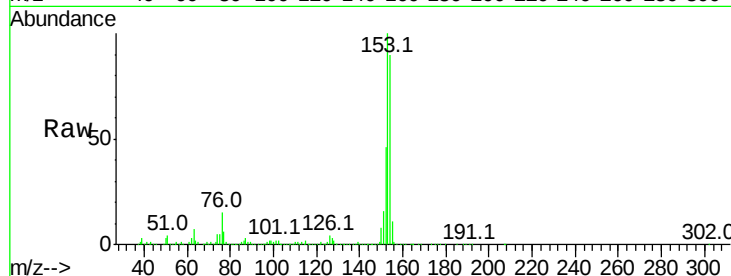
ClientSampleId :

BE1B2

Tot Ion:	153	Resp:	823555
Ion Ratio	Lower	Upper	
153	100		
152	46.1	37.6	56.4
154	89.5	70.4	105.6

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#53

Dibenzofuran

Concen: 11.176 ng/ul

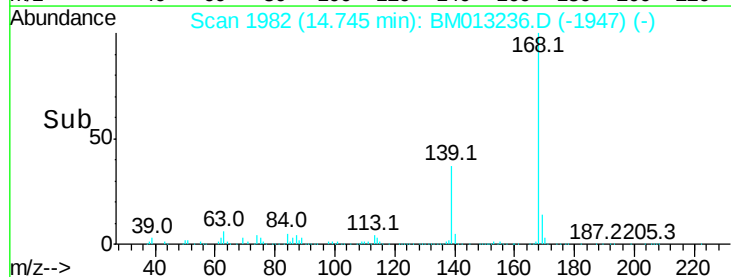
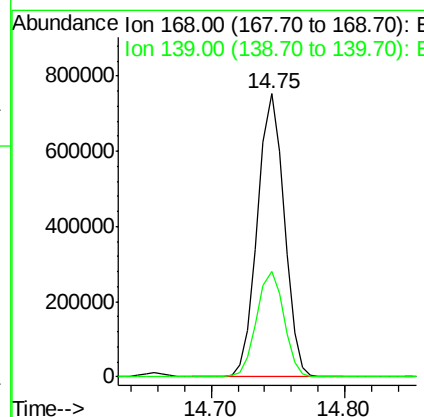
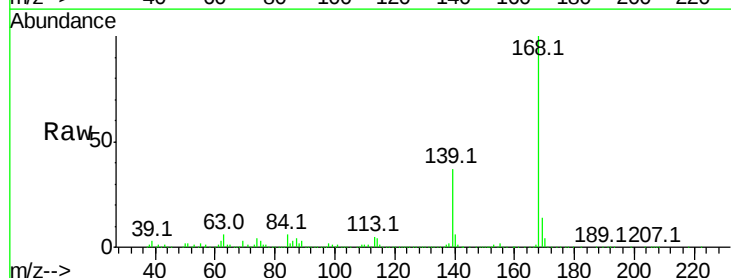
RT: 14.75 min Scan# 1982

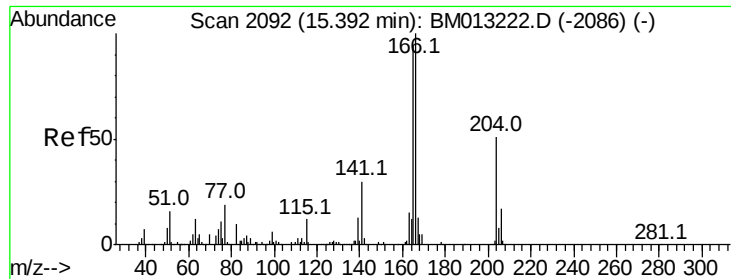
Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Tgt Ion:	168	Resp:	1043598
Ion Ratio	Lower	Upper	
168	100		
139	37.4	30.8	46.2





#58

Fluorene

Concen: 10.181 ng/ul

RT: 15.40 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

Tot Ion:166 Resp: 786465

Ion Ratio Lower Upper

166 100

165 96.2 77.9 116.9

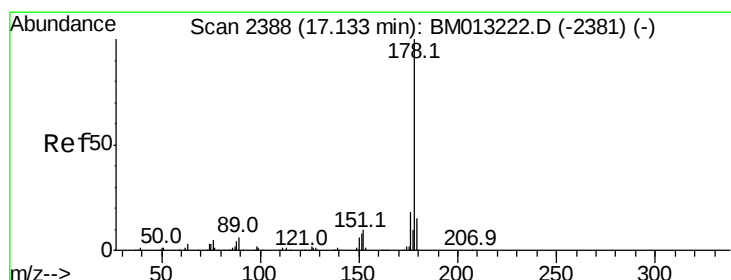
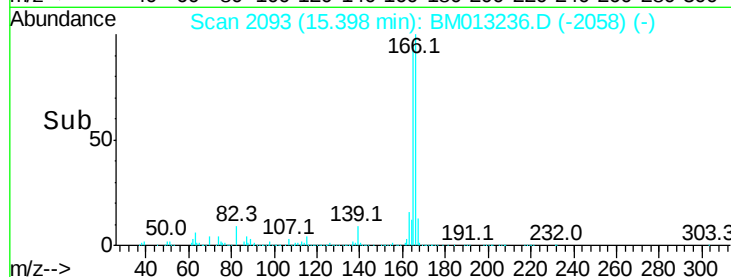
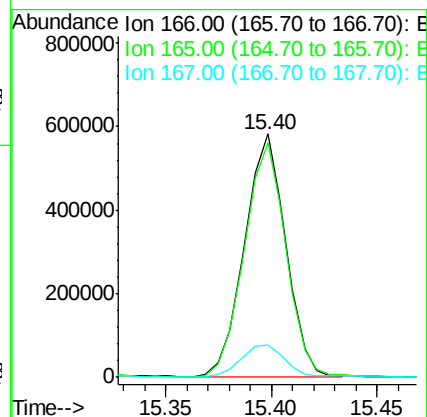
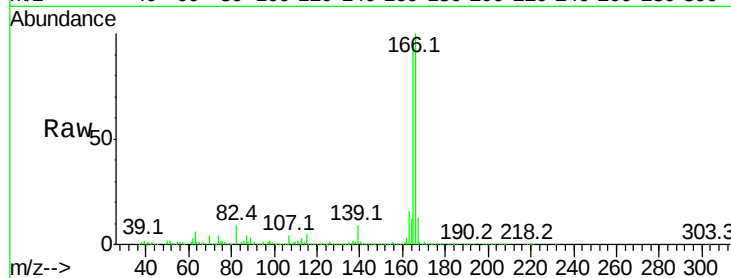
167 13.3 10.6 16.0

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#69

Phenanthrene

Concen: 49.340 ng/ul

RT: 17.14 min Scan# 2390

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

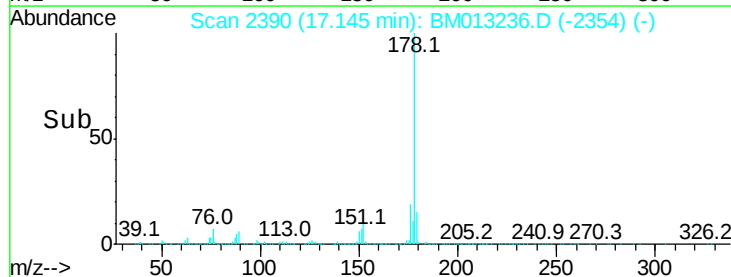
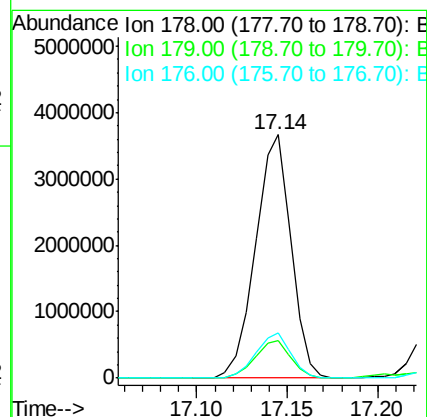
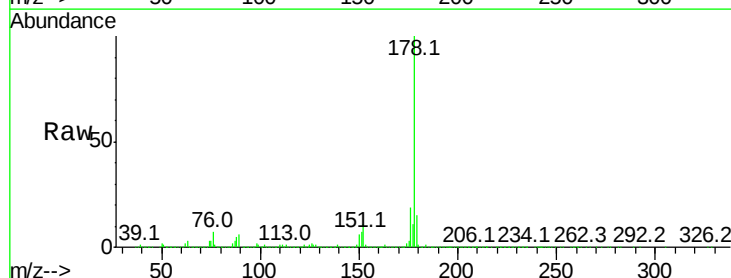
Tgt Ion:178 Resp: 4972579

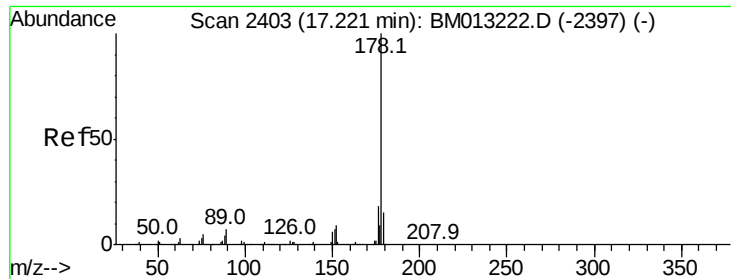
Ion Ratio Lower Upper

178 100

179 15.4 12.6 19.0

176 18.7 14.9 22.3





#71
 Anthracene
 Concen: 11.691 ng/ul
 RT: 17.23 min Scan# 2405
 Delta R.T. 0.01 min
 Lab File: BM013236.D
 Acq: 07 Dec 2017 07:03

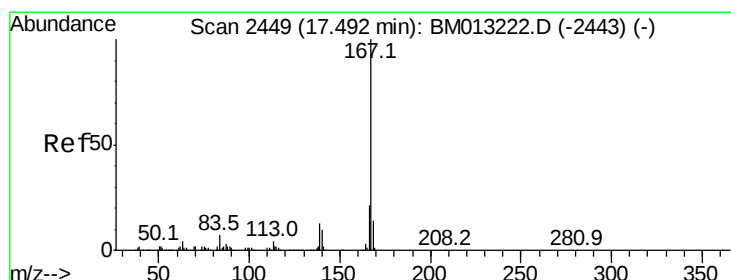
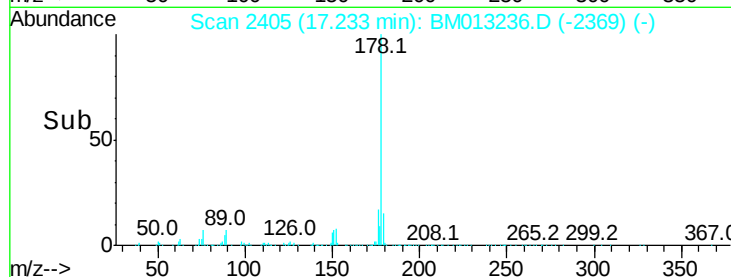
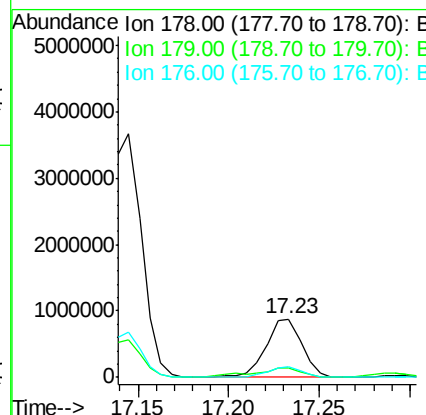
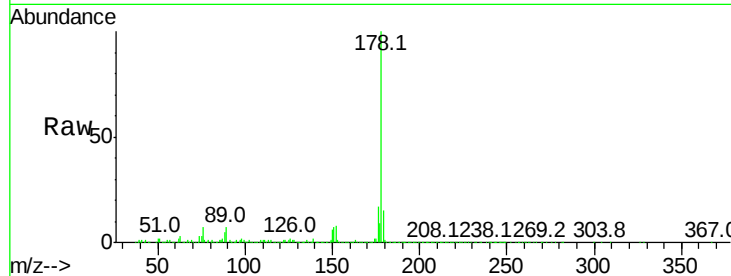
Instrument :
 BNA_M
 ClientSampleID :
 BE1B2

Tot Ion:178 Resp: 1204356

Ion	Ratio	Lower	Upper
178	100		
179	15.0	11.7	17.5
176	17.2	14.6	21.8

Manual Integrations
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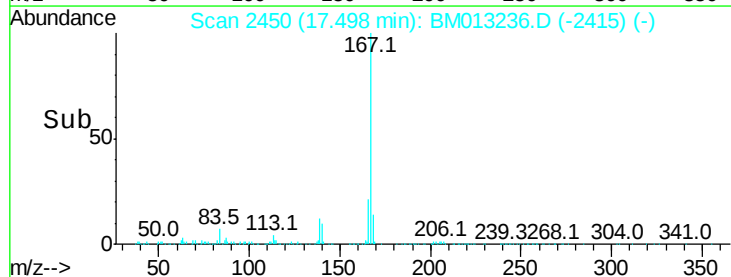
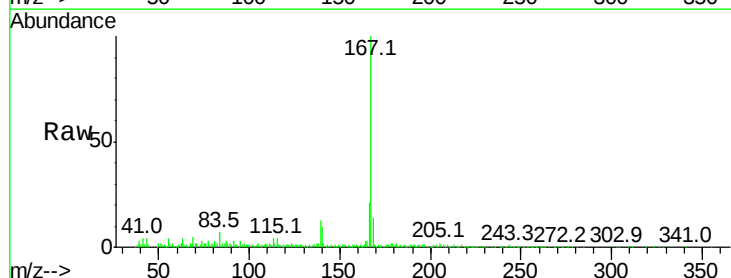
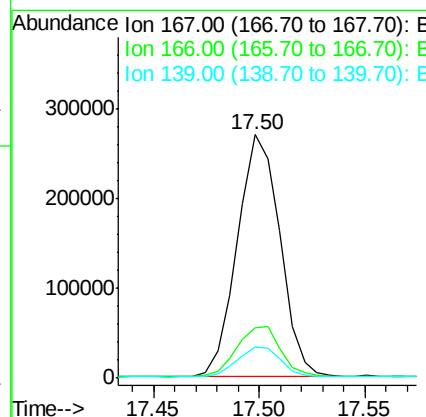
Sohil
 12/7/2017 11:41:42 AM

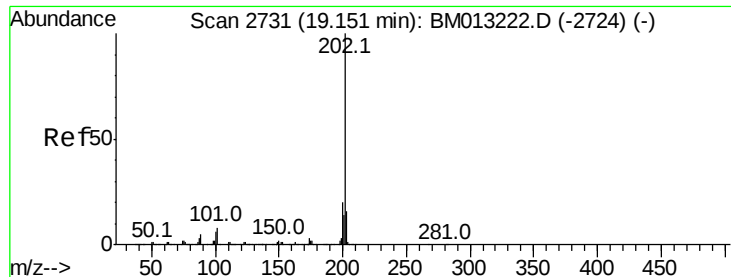


#72
 Carbazole
 Concen: 4.253 ng/ul
 RT: 17.50 min Scan# 2450
 Delta R.T. 0.01 min
 Lab File: BM013236.D
 Acq: 07 Dec 2017 07:03

Tgt Ion:167 Resp: 376827

Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.1	25.7
139	12.7	10.0	15.0





#74

Fluoranthene

Concen: 32.892 ng/ul

RT: 19.16 min Scan# 2732

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

Tot Ion:202 Resp: 4062362

Ion Ratio Lower Upper

202 100

101 8.2 4.6 7.0#

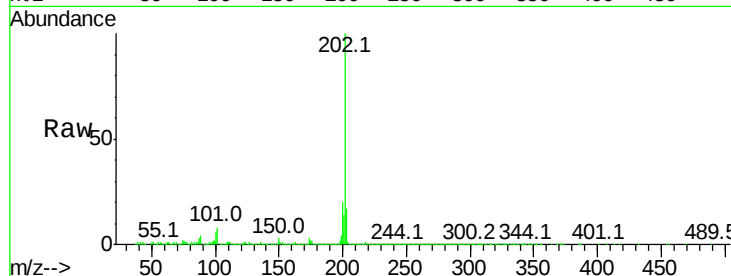
100 6.3 3.4 5.2#

Manual Integrations

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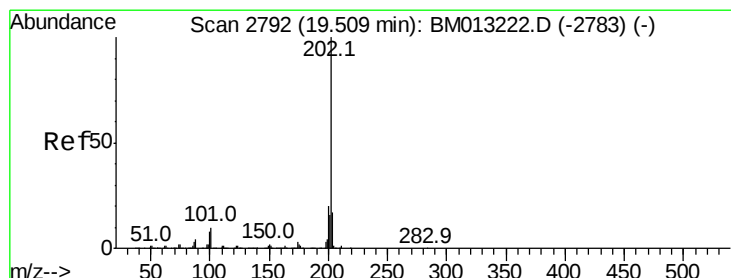
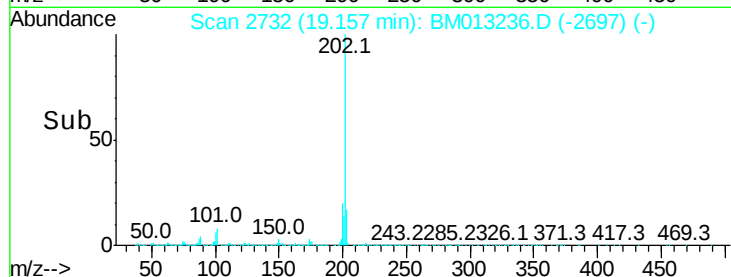
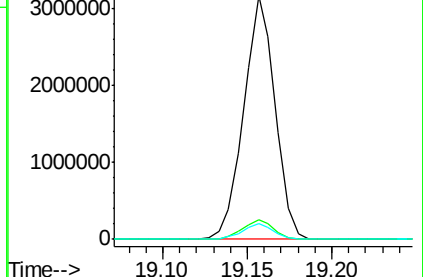
12/7/2017 11:41:42 AM



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: 42.629 ng/ul

RT: 19.52 min Scan# 2794

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Tgt Ion:202 Resp: 3111511

Ion Ratio Lower Upper

202 100

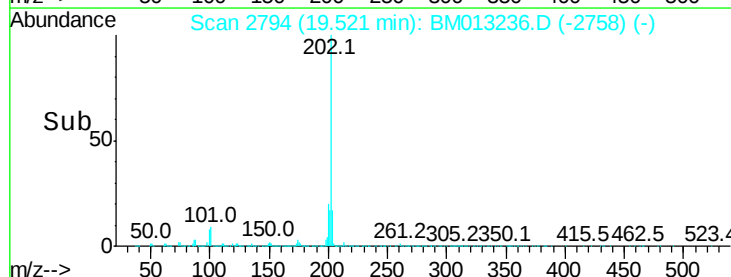
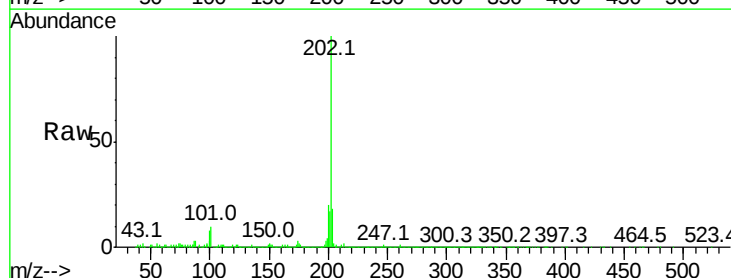
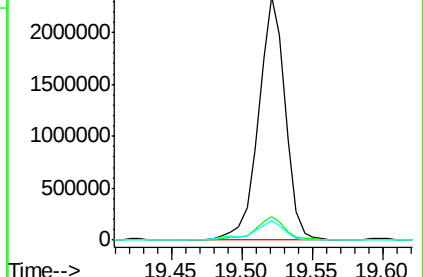
101 9.6 5.1 7.7#

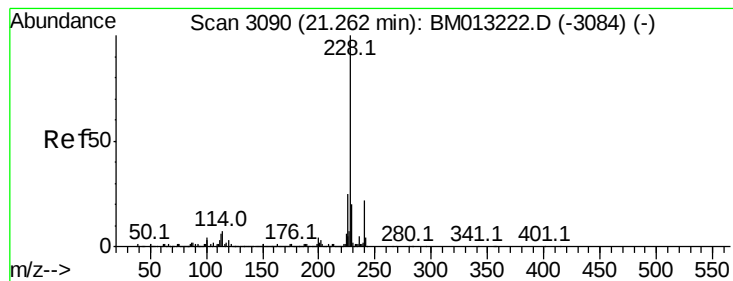
100 8.1 4.9 7.3#

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: 16.333 ng/ul

RT: 21.27 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

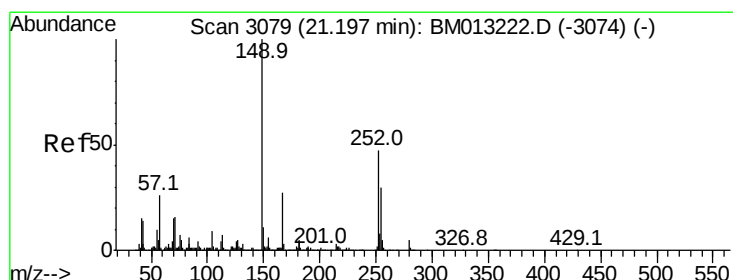
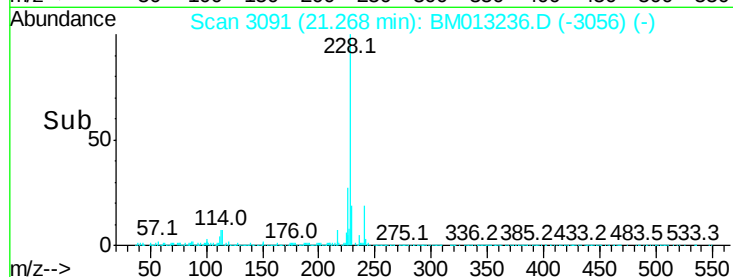
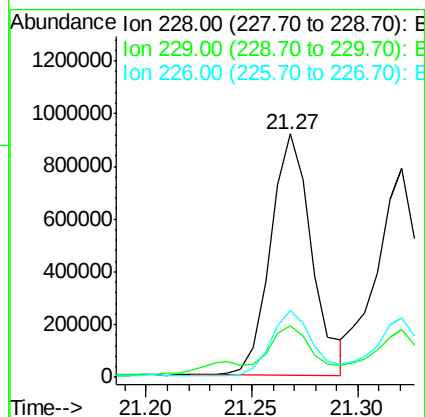
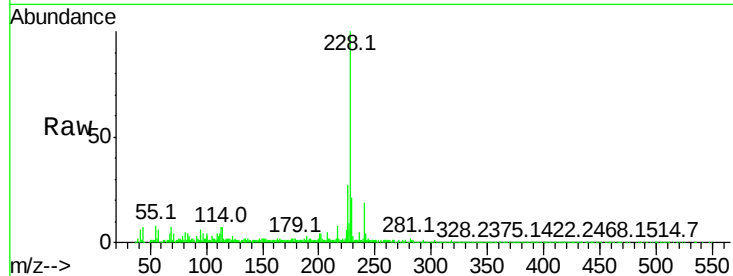
ClientSampleId :

BE1B2

Tot Ion:	228	Resp:	1245040
Ion	Ratio	Lower	Upper
228	100		
229	21.2	15.4	23.0
226	27.4	21.4	32.0

Manual Integrations
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#81

Bis(2-ethylhexyl)phthalate

Concen: 10.489 ng/ul

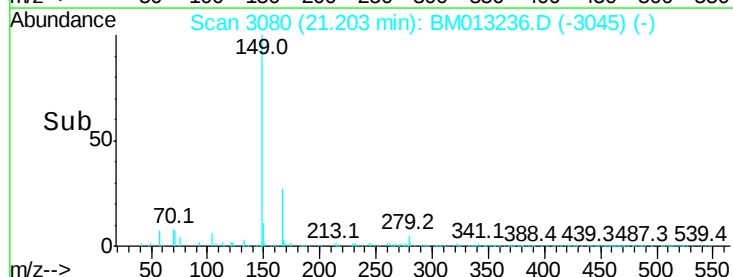
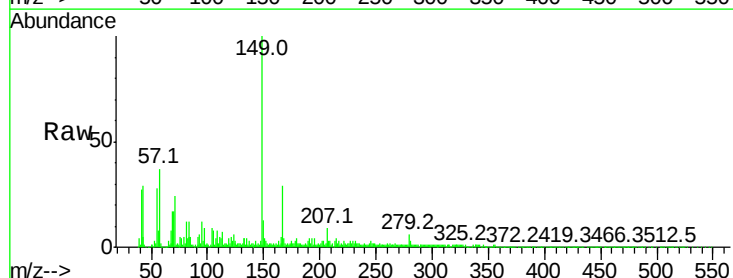
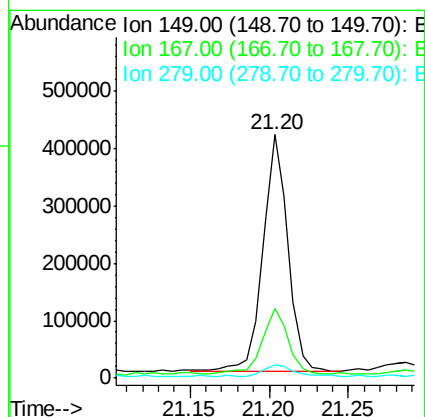
RT: 21.20 min Scan# 3080

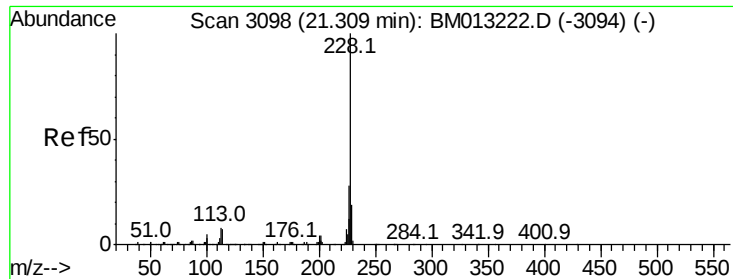
Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Tgt Ion:	149	Resp:	450866
Ion	Ratio	Lower	Upper
149	100		
167	28.8	22.8	34.2
279	5.6	4.9	7.3





#82

Chrysene

Concen: 15.228 ng/ul

RT: 21.32 min Scan# 3100

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

Tot Ion:228 Resp: 1076950

Ion	Ratio	Lower	Upper
228	100		
226	28.6	23.4	35.2
229	22.8	15.5	23.3

228 100

226 28.6 23.4 35.2

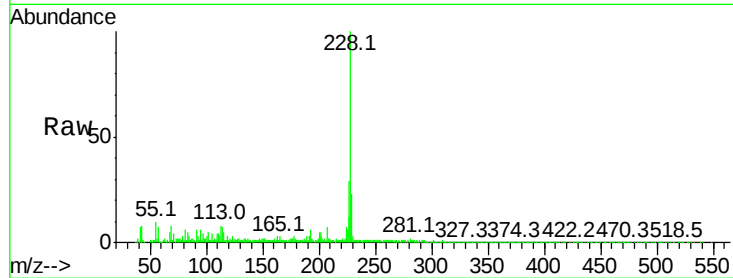
229 22.8 15.5 23.3

Manual Integrations

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Sohil

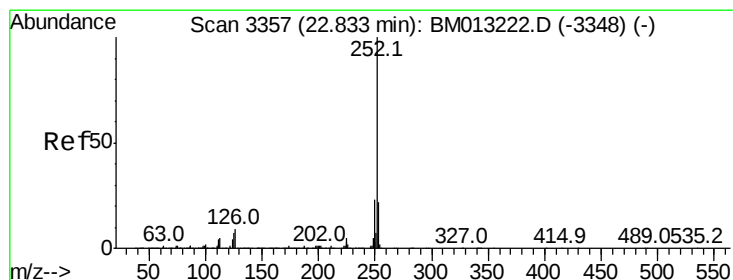
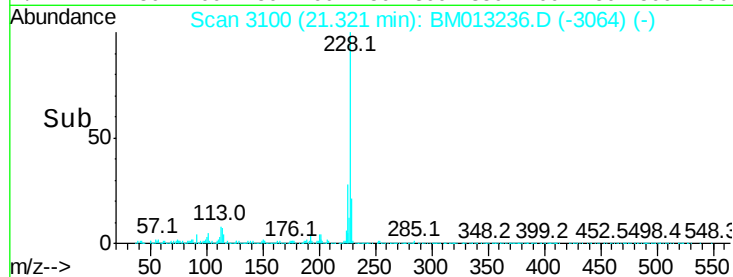
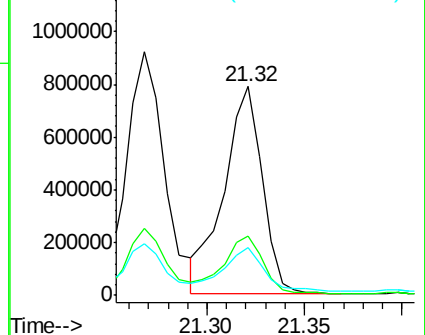
12/7/2017 11:41:42 AM



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



#85

Benzo(b)fluoranthene

Concen: 16.202 ng/ul

RT: 22.85 min Scan# 3360

Delta R.T. 0.02 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

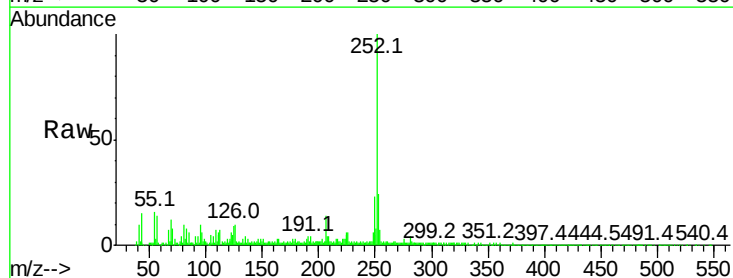
Tgt Ion:252 Resp: 1239627

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	8.6	3.6	5.4

252 100

253 23.9 17.9 26.9

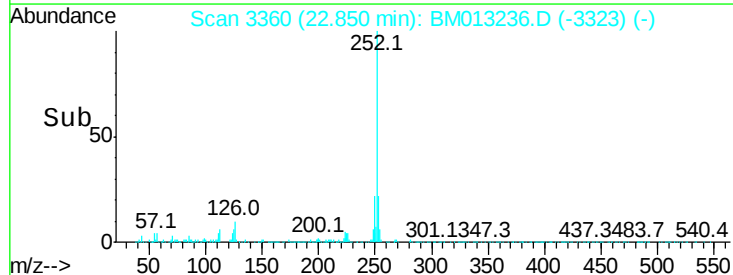
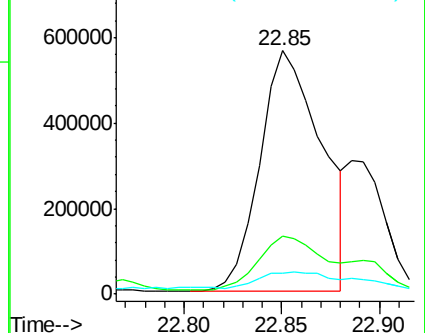
125 8.6 3.6 5.4

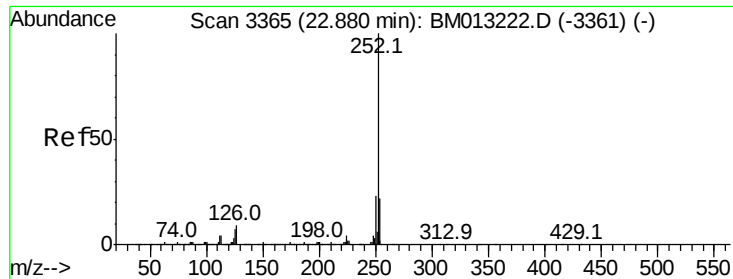


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





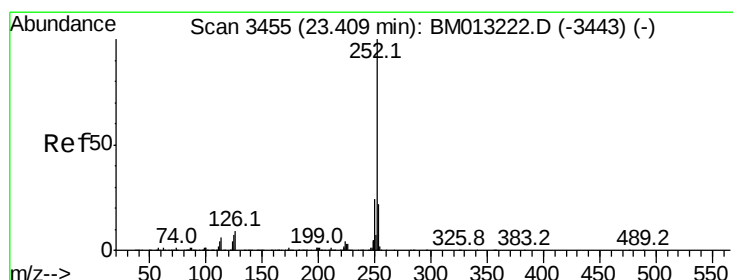
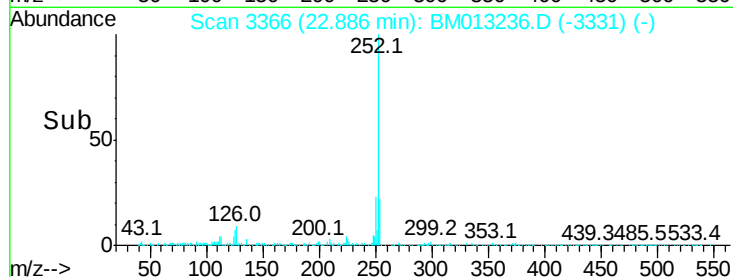
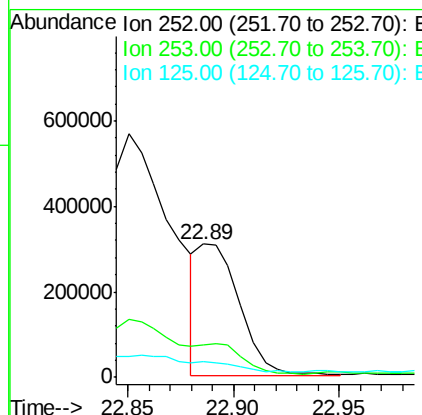
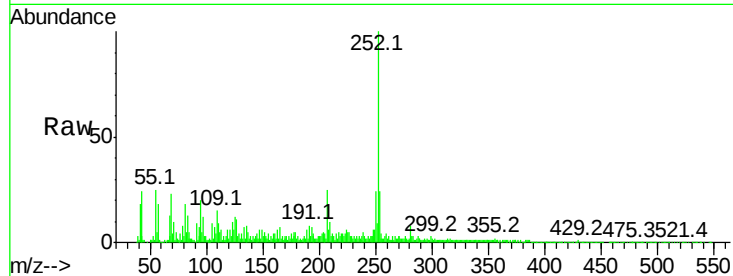
#86
Benzo(k)fluoranthene
Concen: 5.818 ng/ul m
RT: 22.89 min Scan# 3366
Delta R.T. 0.01 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Instrument :
BNA_M
ClientSampled :
BE1B2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	11.7	3.4	5.2#

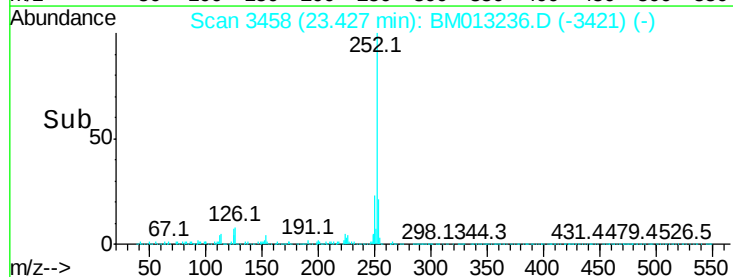
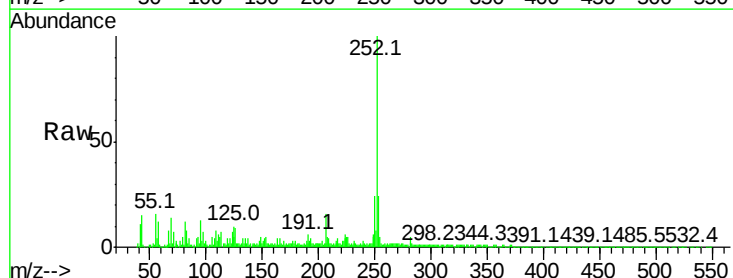
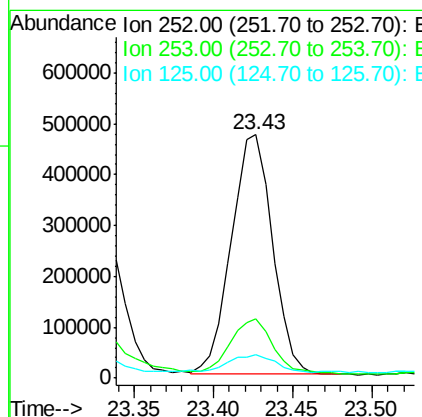
Manual Integrations
APPROVED

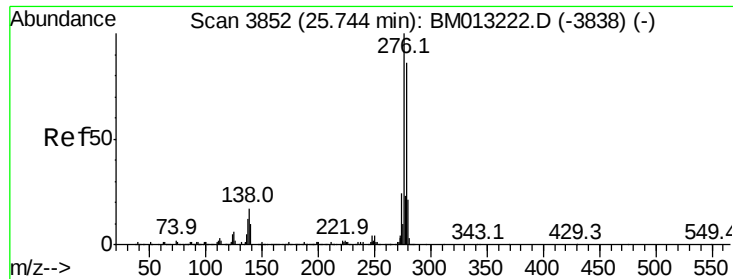
Sohil
12/7/2017 11:41:42 AM



#88
Benzo(a)pyrene
Concen: 12.396 ng/ul
RT: 23.43 min Scan# 3458
Delta R.T. 0.02 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.2
125	9.6	4.0	6.0#





#89

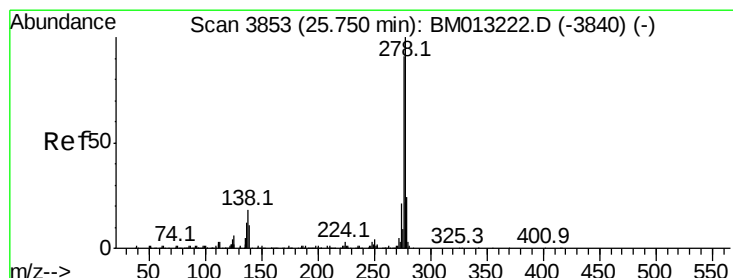
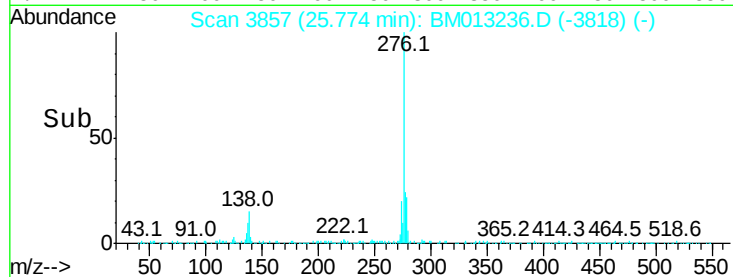
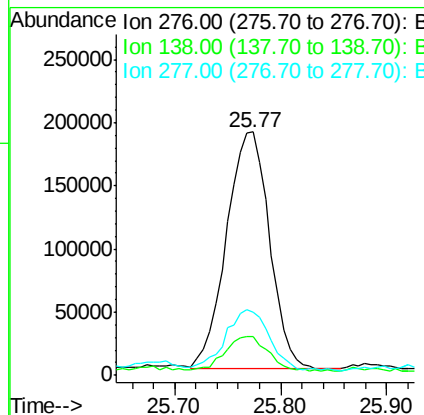
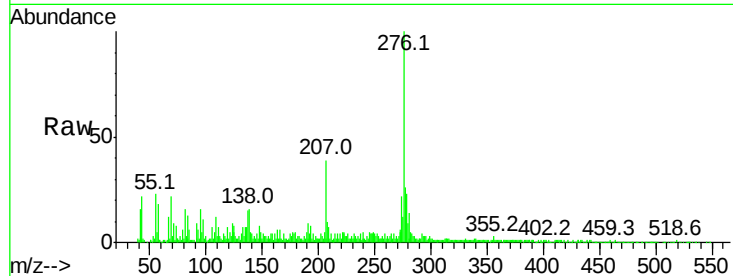
Indeno(1,2,3-cd)pyrene
Concen: 7.771 ng/ul
RT: 25.77 min Scan# 3857
Delta R.T. 0.03 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Instrument :
BNA_M
ClientSampled :
BE1B2

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.1	9.3	13.9#
277	26.0	19.9	29.9

Manual Integrations
APPROVED

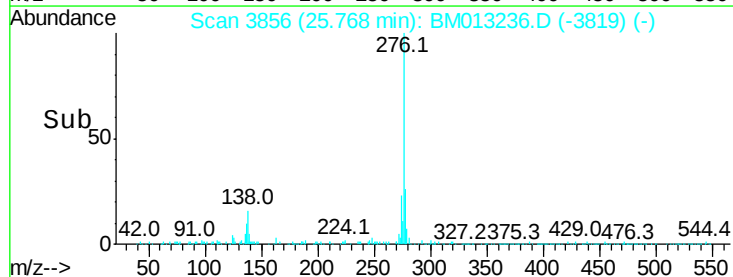
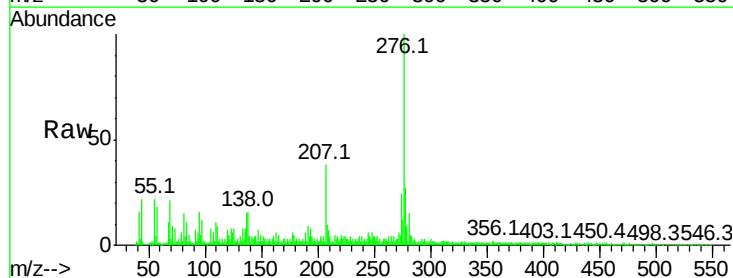
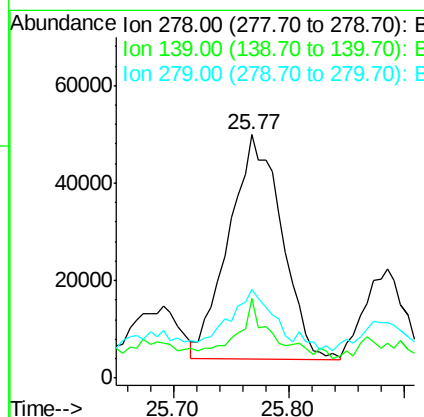
Sohil
12/7/2017 11:41:42 AM

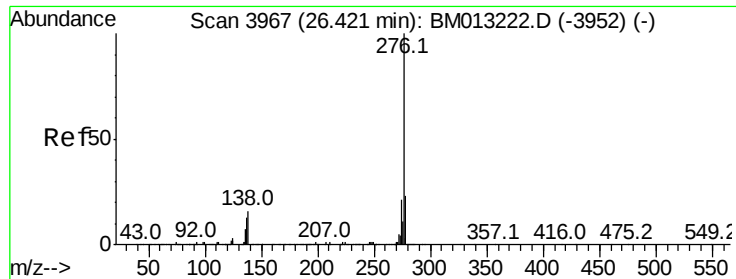


#90

Dibenzo(a,h)anthracene
Concen: 2.510 ng/ul
RT: 25.77 min Scan# 3856
Delta R.T. 0.02 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.8	5.8	8.8#
279	36.3	18.6	27.8#





#91

Benzo(a,h,i)perylene

Concen: 8.813 ng/ul

RT: 26.46 min Scan# 3973

Delta R.T. 0.04 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

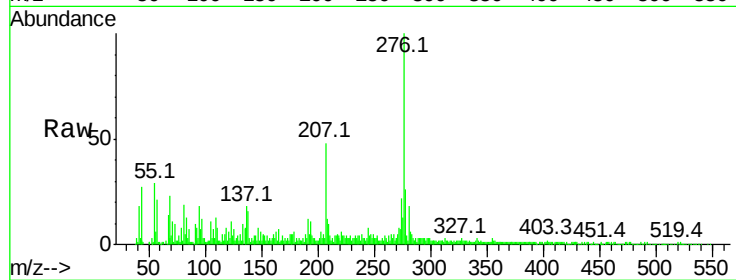
ClientSampleId :

BE1B2

Tot Ion:	276	Resp:	474061
Ion Ratio	Lower	Upper	
276	100		
138	16.2	8.5	12.7#
277	25.6	18.6	28.0

Manual Integrations
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12/7/2017 11:41:42 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

