

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
 Data File : BM012124.D
 Acq On : 13 Oct 2017 06:28
 Operator : SJ/JU
 Sample : I5533-09
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-54(1-2)-092817

Manual Integrations
 APPROVED

Sohil
 10/15/2017 12:37:08 PM

Quant Time: Oct 14 23:42:51 2017
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101217.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Oct 13 04:53:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	448950	20.00	ng/ul	0.02
18) Naphthalene-d8	10.66	136	1794044	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.50	164	904066	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.27	188	1727235	20.00	ng/ul	0.04
75) Chrysene-d12	21.47	240	2515743	20.00	ng/ul	0.06
83) Perylene-d12	23.83	264	2578033	20.00	ng/ul	0.11

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.25	96	19514m	2.07	ng/uL	0.00
5) Phenol-d5	7.02	99	447160	12.28	ng/ul	0.03
7) Bis-(2-Chloroethyl)ether-d	7.17	67	269838	12.35	ng/ul	0.02
9) 2-Chlorophenol-d4	7.38	132	394614	12.77	ng/ul	0.02
13) 4-Methylphenol-d8	8.56	113	394614	12.58	ng/ul	0.02
19) Nitrobenzene-d5	9.02	128	181872	13.28	ng/ul	0.02
22) 2-Nitrophenol-d4	9.74	143	183360	11.46	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.29	165	395898	12.96	ng/ul	0.03
29) 4-Chloroaniline-d4	10.80	131	282522m	9.88	ng/ul	0.02
43) Dimethylphthalate-d6	13.90	166	1095372	13.71	ng/ul	0.02
46) Acenaphthylene-d8	14.20	160	1313191	13.58	ng/ul	0.02
51) 4-Nitrophenol-d4	14.74	143	87081m	7.25	ng/ul	0.06
57) Fluorene-d10	15.50	176	832454	12.69	ng/ul	0.02
62) 4,6-Dinitro-2-methylphenol	15.65	200	1156	0.10	ng/ul	0.05
70) Anthracene-d10	17.37	188	1220484	14.29	ng/ul	0.05
76) Pyrene-d10	19.67	212	1491480	11.68	ng/ul	0.05
87) Benzo(a)pyrene-d12	23.68	264	1761764	14.18	ng/ul	0.11

Target Compounds

						Qvalue
6) Phenol	7.05	94	70328	1.87	ng/ul	88
16) 4-Methylphenol	8.63	108	45130	1.45	ng/ul	100
28) Naphthalene	10.71	128	7595311	81.83	ng/ul	100
34) 2-Methylnaphthalene	12.32	142	3313885	47.31	ng/ul	97
40) 1,1'-Biphenyl	13.33	154	1196678	15.68	ng/ul	99
44) Dimethylphthalate	13.95	163	266867	3.33	ng/ul	100
47) Acenaphthylene	14.23	152	1135697	11.96	ng/ul#	96
49) Acenaphthene	14.57	153	7278905	113.78	ng/ul	99
53) Dibenzofuran	14.91	168	9010928	97.82	ng/ul	100
58) Fluorene	15.56	166	11240762	146.93	ng/ul	98
69) Phenanthrene	17.30	178	35593033m	362.24	ng/ul	
71) Anthracene	17.40	178	18084173m	177.78	ng/ul	
72) Carbazole	17.67	167	7469558	86.76	ng/ul	98
74) Fluoranthene	19.32	202	34654057m	292.25	ng/ul	
77) Pyrene	19.69	202	33839992m	203.68	ng/ul	
80) Benzo(a)anthracene	21.43	228	28310295m	172.94	ng/ul	
82) Chrysene	21.49	228	23663012m	153.97	ng/ul	
85) Benzo(b)fluoranthene	23.10	252	34256945m	203.62	ng/ul	
86) Benzo(k)fluoranthene	23.16	252	13250061m	81.73	ng/ul	
88) Benzo(a)pyrene	23.73	252	31517758m	198.77	ng/ul	
89) Indeno(1,2,3-cd)pyrene	26.33	276	27172315m	161.37	ng/ul	
90) Dibenzo(a,h)anthracene	26.29	278	7267346	51.34	ng/ul#	80
91) Benzo(g,h,i)perylene	27.09	276	24660603m	178.81	ng/ul	

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

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

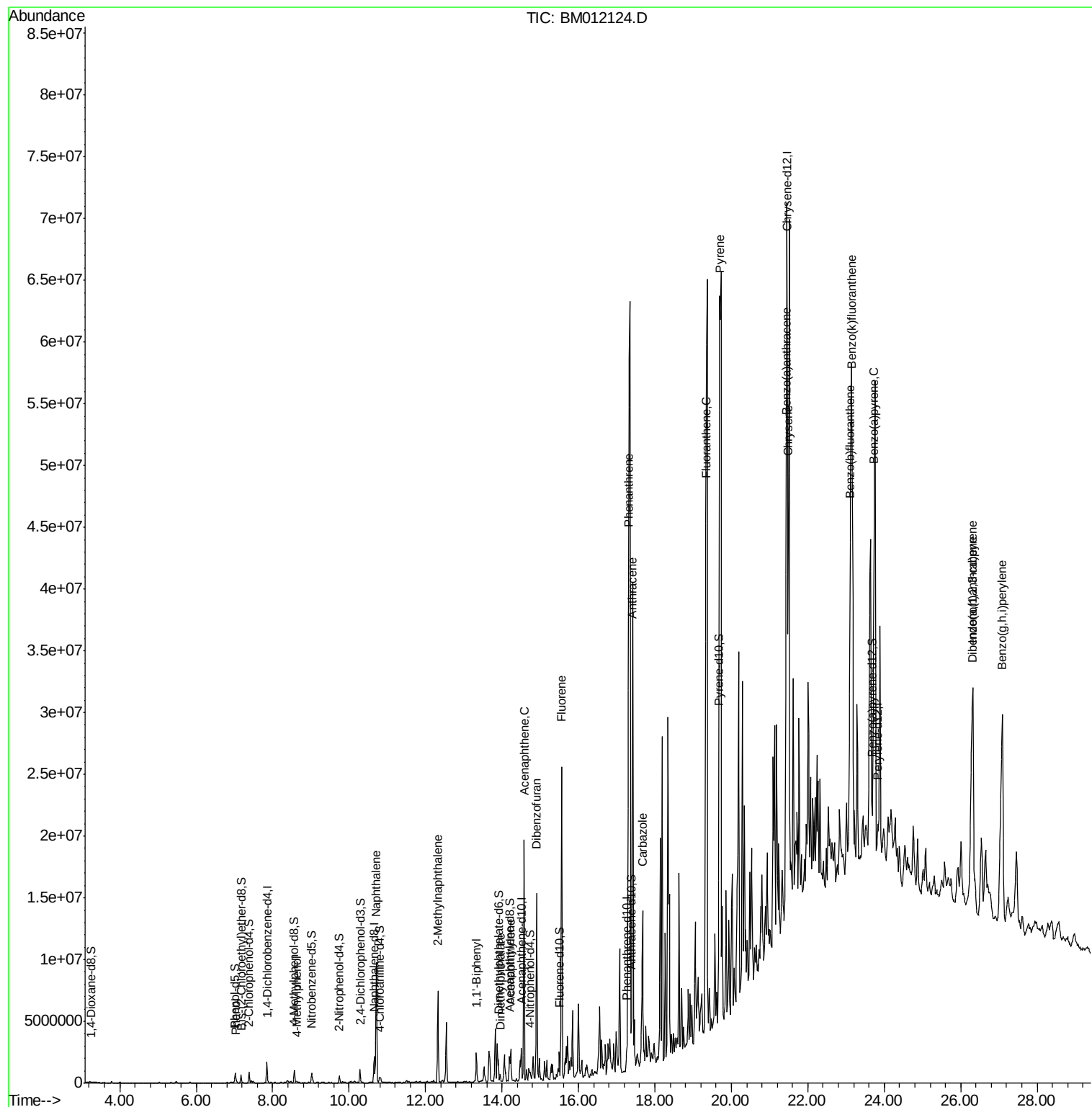
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM101217\
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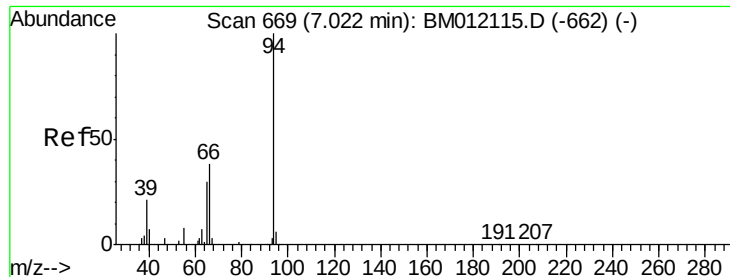
Instrument :
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#6

Phenol

Concen: 1.87 ng/ul

RT: 7.05 min Scan# 673

Delta R.T. 0.02 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

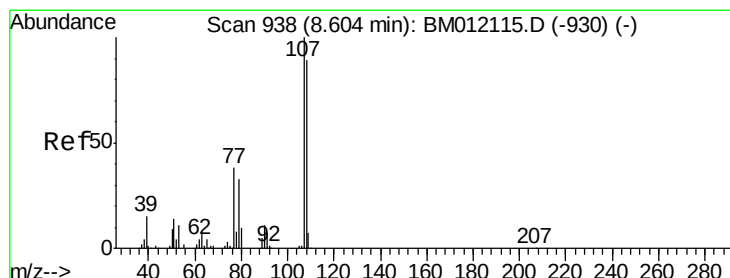
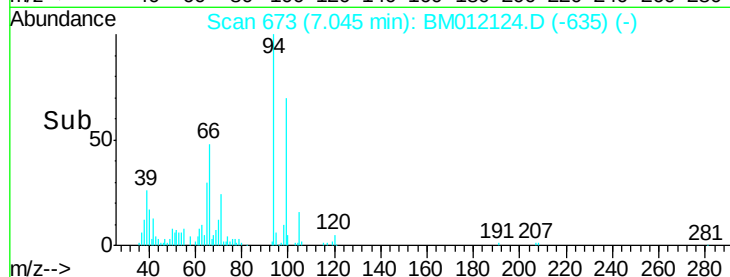
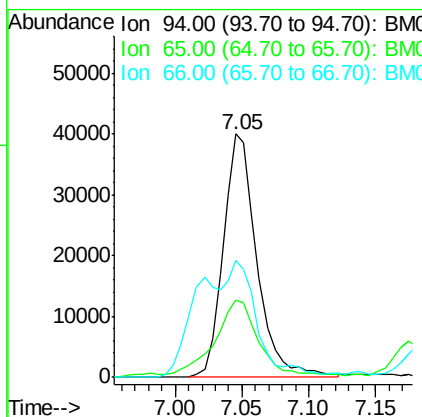
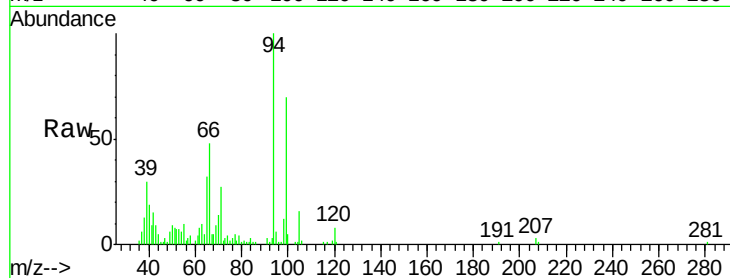
ClientSampleId :

B-54(1-2)-092817

Tgt Ion:	94	Resp:	70328
Ion Ratio	Lower	Upper	
94	100		
65	31.6	28.2	42.4
66	47.8	47.2	70.8

Manual Integrations
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#16

4-Methylphenol

Concen: 1.45 ng/ul

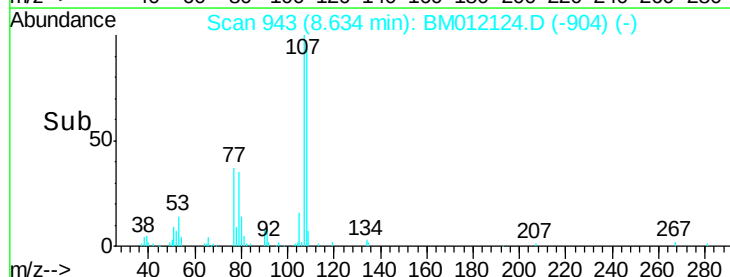
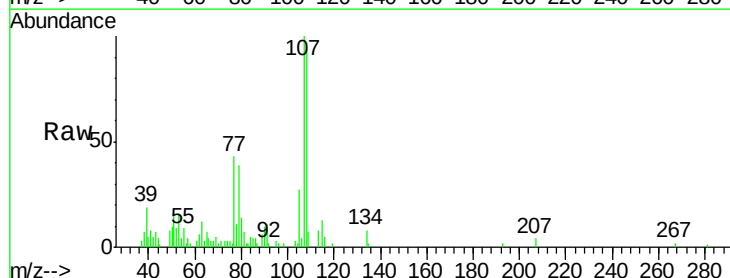
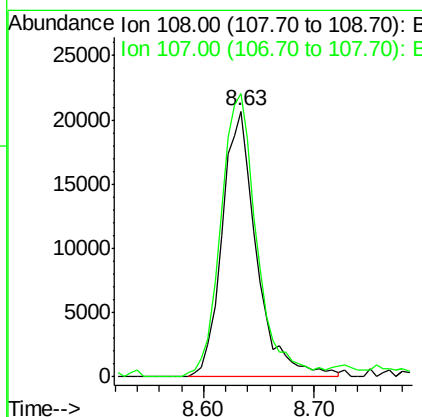
RT: 8.63 min Scan# 943

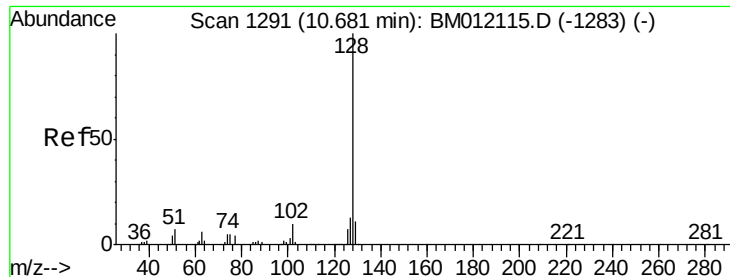
Delta R.T. 0.03 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Tgt Ion:	108	Resp:	45130
Ion Ratio	Lower	Upper	
108	100		
107	106.5	84.9	127.3





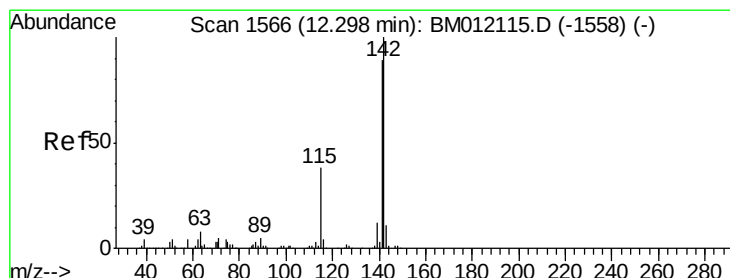
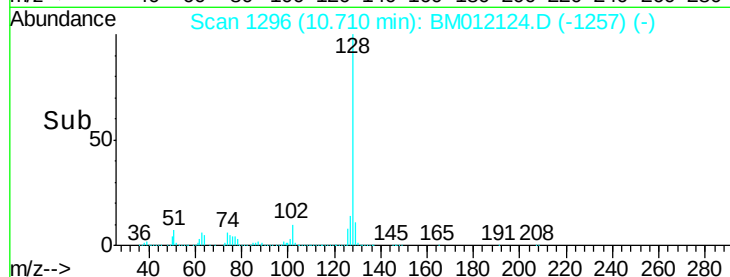
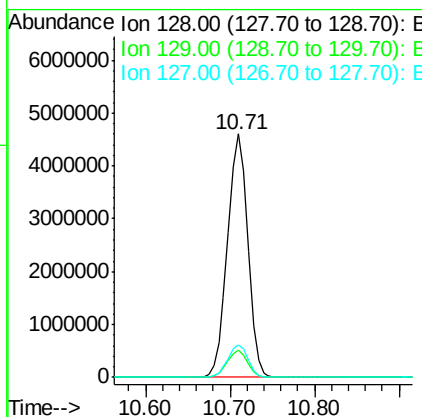
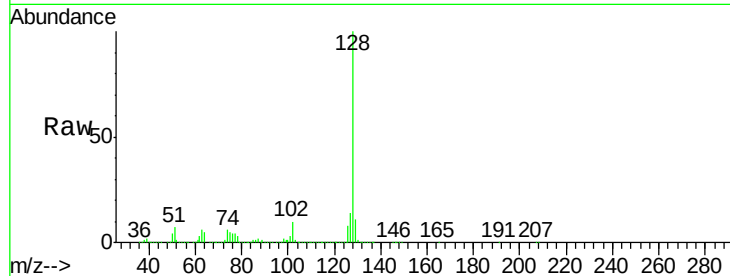
#28
Naphthalene
Concen: 81.83 ng/ul
RT: 10.71 min Scan# 1296
Delta R.T. 0.03 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Instrument :
BNA_M
ClientSampleId :
B-54(1-2)-092817

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.6	16.0

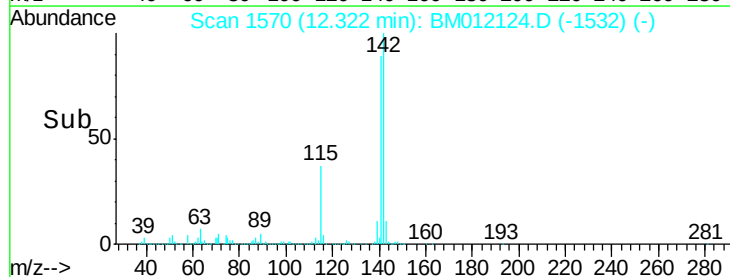
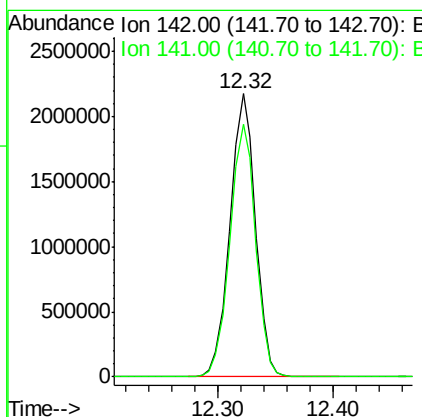
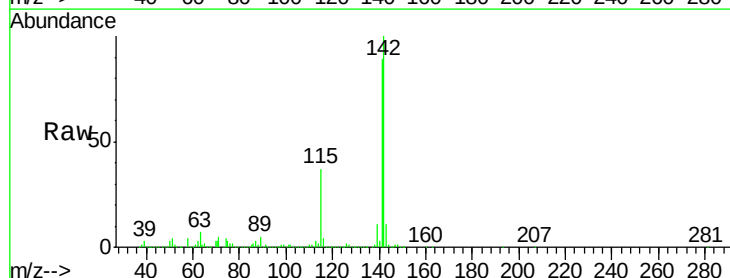
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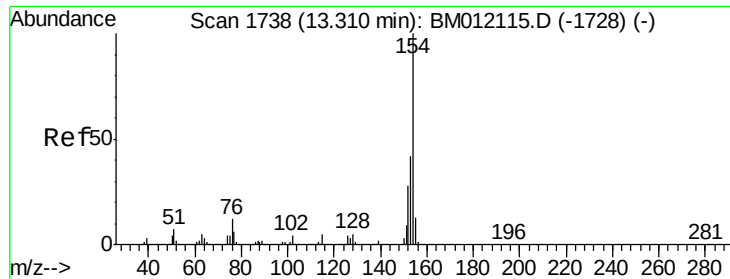
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#34
2-Methylnaphthalene
Concen: 47.31 ng/ul
RT: 12.32 min Scan# 1570
Delta R.T. 0.02 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.5	74.1	111.1





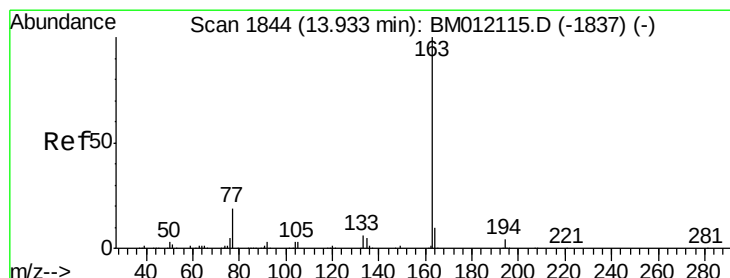
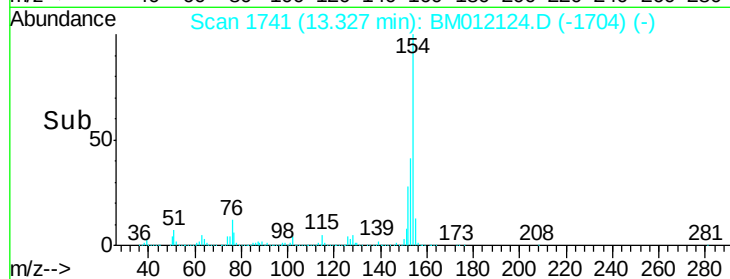
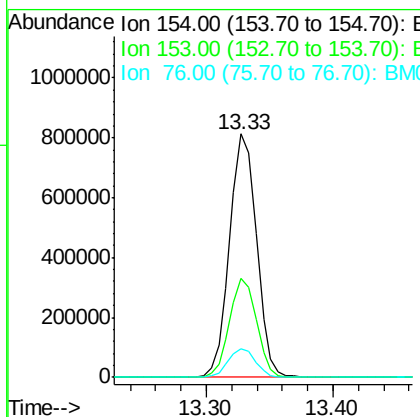
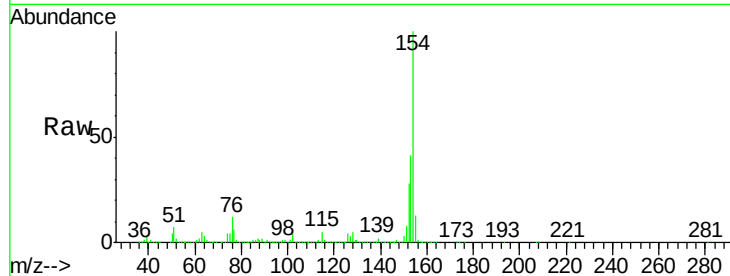
#40
 1,1'-Biphenyl
 Concen: 15.68 ng/ul
 RT: 13.33 min Scan# 1741
 Delta R.T. 0.02 min
 Lab File: BM012124.D
 Acq: 13 Oct 2017 06:28

Instrument :
 BNA_M
 ClientSampleId :
 B-54(1-2)-092817

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.6	48.8
76	11.9	8.5	12.7

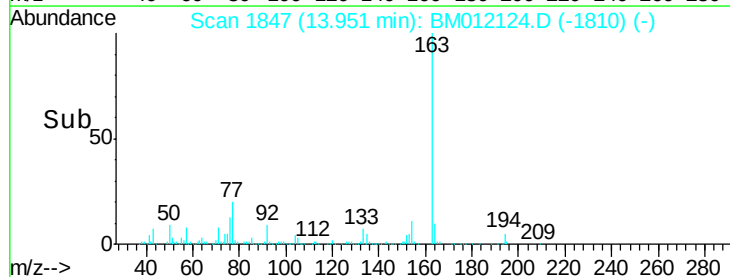
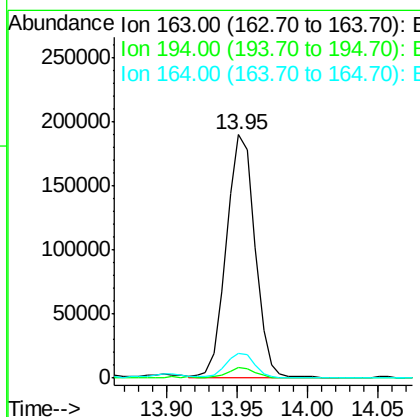
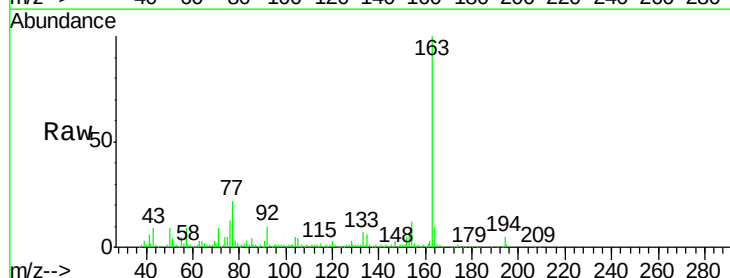
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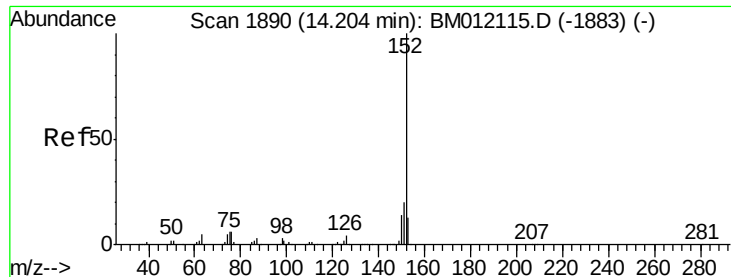
Sohil
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#44
 Dimethylphthalate
 Concen: 3.33 ng/ul
 RT: 13.95 min Scan# 1847
 Delta R.T. 0.02 min
 Lab File: BM012124.D
 Acq: 13 Oct 2017 06:28

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.5	5.3
164	10.4	8.2	12.4





#47

Acenaphthylene

Concen: 11.96 ng/ul

RT: 14.23 min Scan# 1894

Delta R.T. 0.02 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

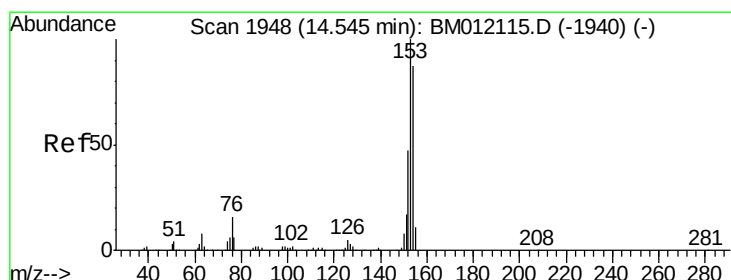
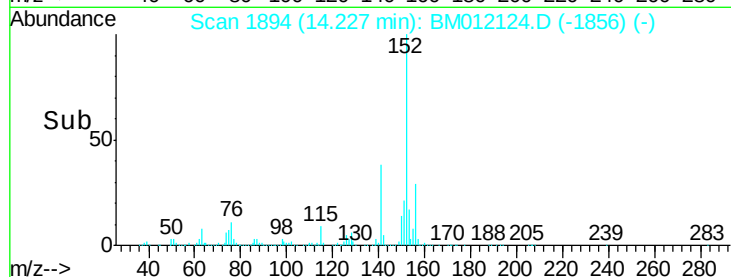
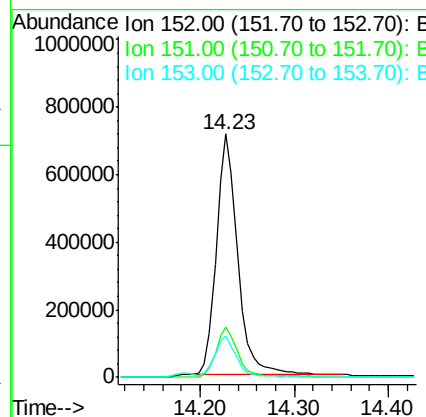
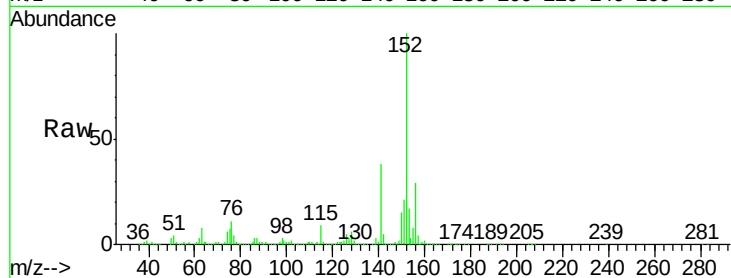
ClientSampleId :

B-54(1-2)-092817

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.3	24.5
153	17.1	10.2	15.4

Manual Integrations
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#49

Acenaphthene

Concen: 113.78 ng/ul

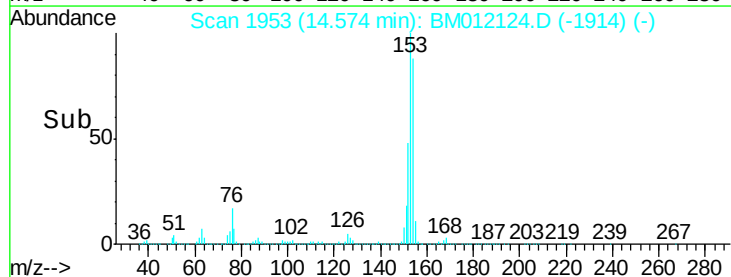
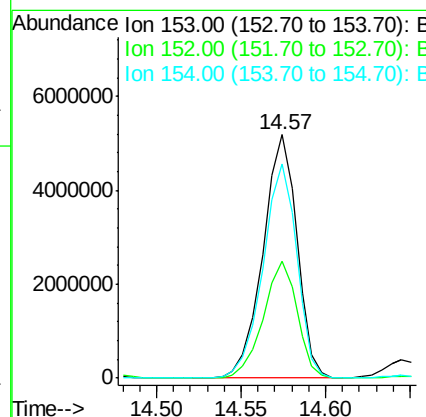
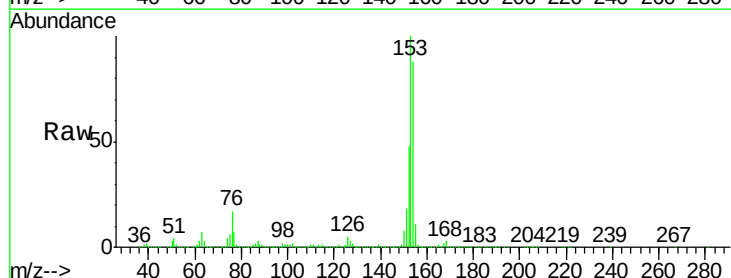
RT: 14.57 min Scan# 1953

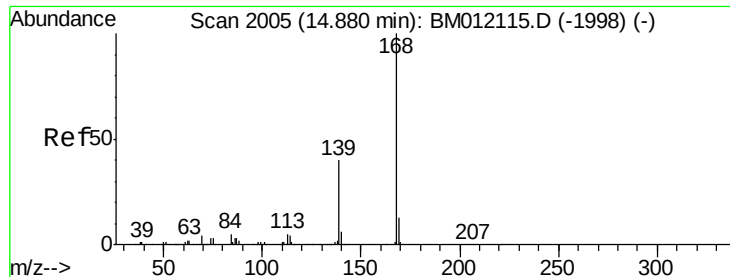
Delta R.T. 0.03 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Tgt Ion	Ratio	Lower	Upper
153	100		
152	48.3	37.6	56.4
154	88.2	70.4	105.6





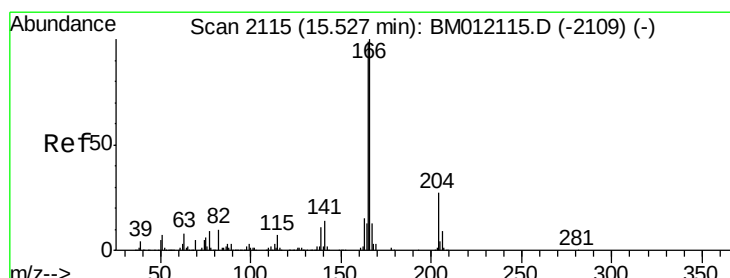
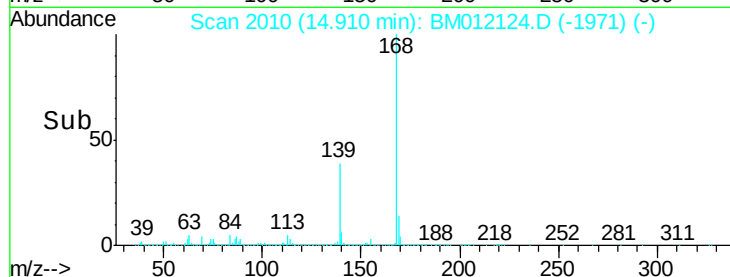
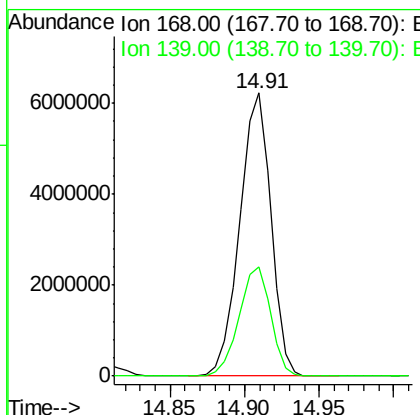
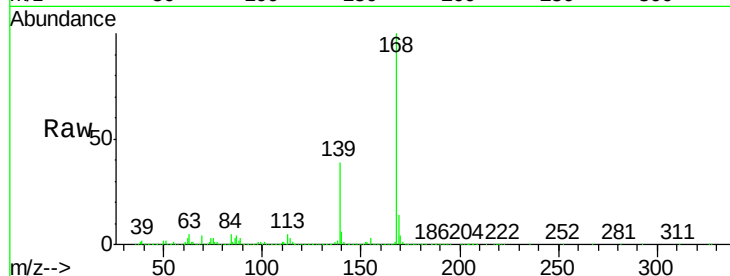
#53
Dibenzenofuran
Concen: 97.82 ng/ul
RT: 14.91 min Scan# 2010
Delta R.T. 0.03 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

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ClientSampleId :
B-54(1-2)-092817

Tgt Ion:168 Resp: 9010928
Ion Ratio Lower Upper
168 100
139 38.6 30.8 46.2

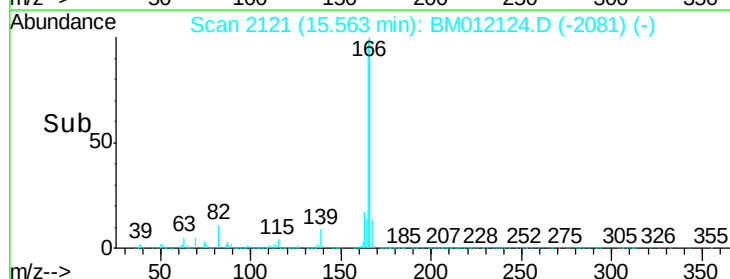
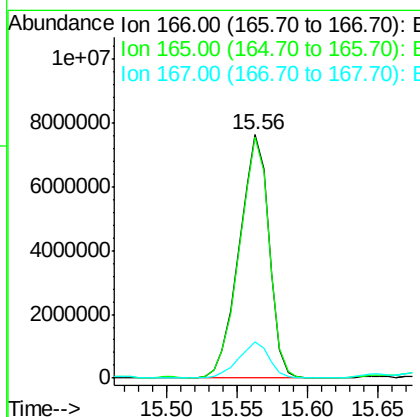
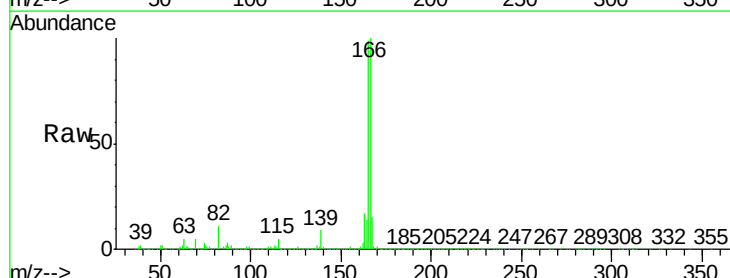
Manual Integrations
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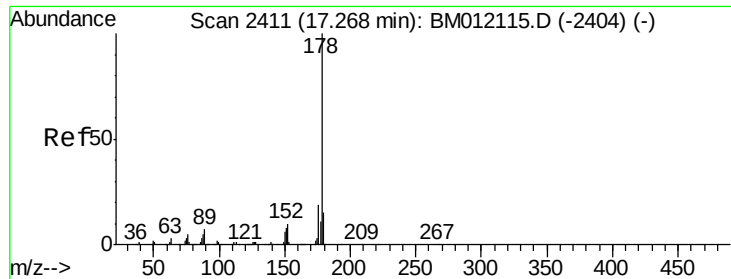
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#58
Fluorene
Concen: 146.93 ng/ul
RT: 15.56 min Scan# 2121
Delta R.T. 0.04 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Tgt Ion:166 Resp:11240762
Ion Ratio Lower Upper
166 100
165 98.9 77.9 116.9
167 14.7 10.6 16.0





#69

Phenanthrene

Concen: 362.24 ng/ul m

RT: 17.30 min Scan# 2417

Delta R.T. 0.04 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

ClientSampleId :

B-54(1-2)-092817

Tgt Ion:178 Resp:35593033

Ion Ratio Lower Upper

178 100

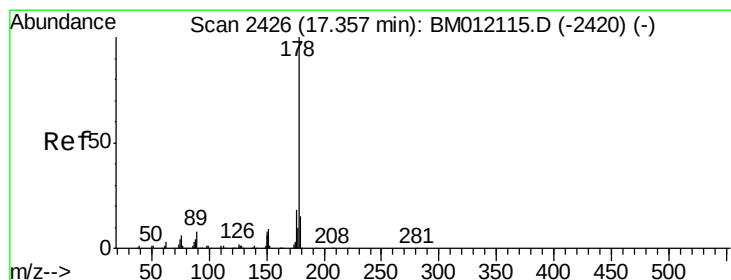
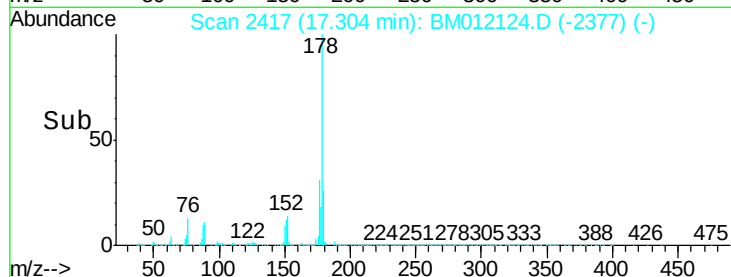
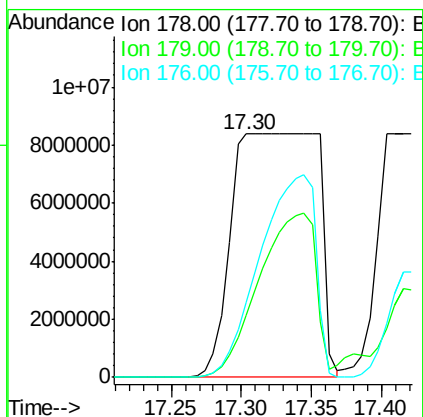
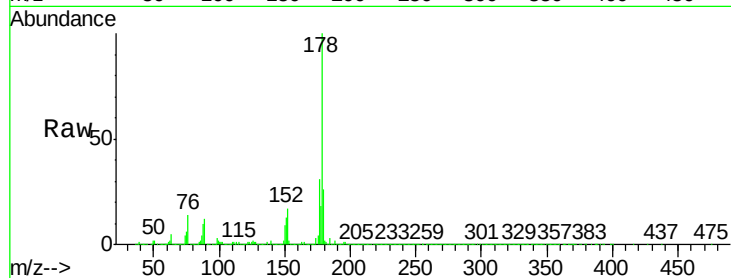
179 25.6 12.6 19.0#

176 30.7 14.9 22.3#

Manual Integrations
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#71

Anthracene

Concen: 177.78 ng/ul m

RT: 17.40 min Scan# 2434

Delta R.T. 0.05 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

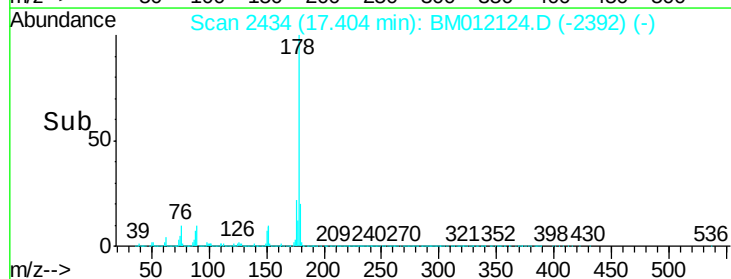
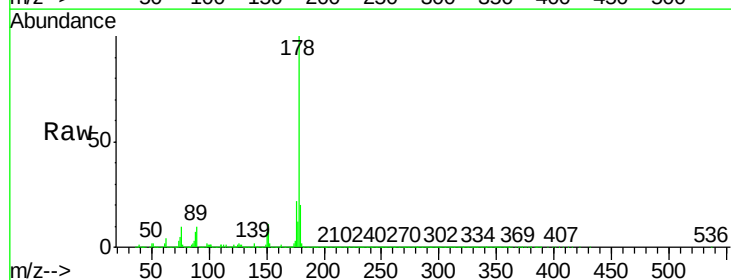
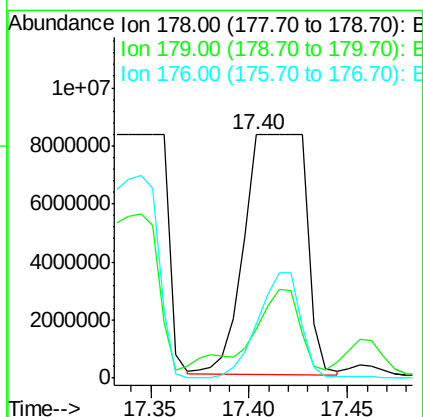
Tgt Ion:178 Resp:18084173

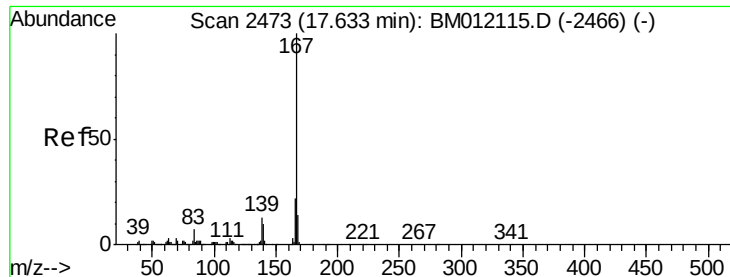
Ion Ratio Lower Upper

178 100

179 20.0 11.7 17.5#

176 22.0 14.6 21.8#





#72

Carbazole

Concen: 86.76 ng/ul

RT: 17.67 min Scan# 2480

Delta R.T. 0.04 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

ClientSampleId :

B-54(1-2)-092817

Tgt Ion:167 Resp: 7469558

Ion Ratio Lower Upper

167 100

166 22.7 17.1 25.7

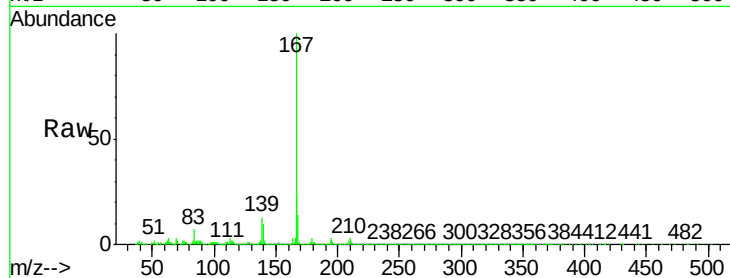
139 13.3 10.0 15.0

Manual Integrations

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Sohil

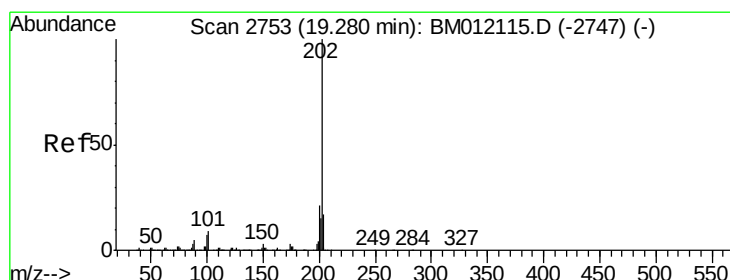
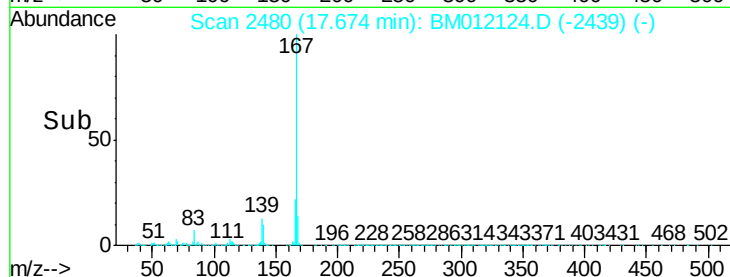
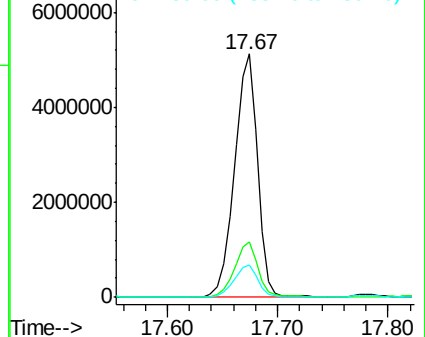
10/15/2017 12:37:08 PM



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: 292.25 ng/ul m

RT: 19.32 min Scan# 2760

Delta R.T. 0.04 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

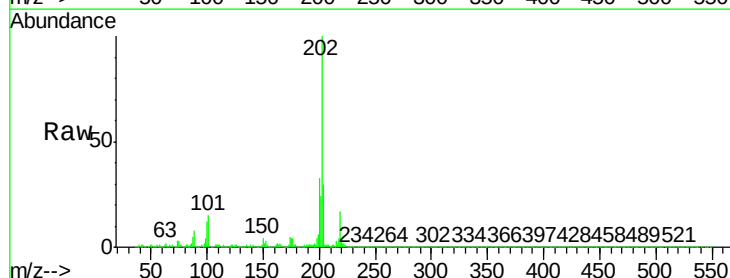
Tgt Ion:202 Resp:34654057

Ion Ratio Lower Upper

202 100

101 15.4 4.6 7.0#

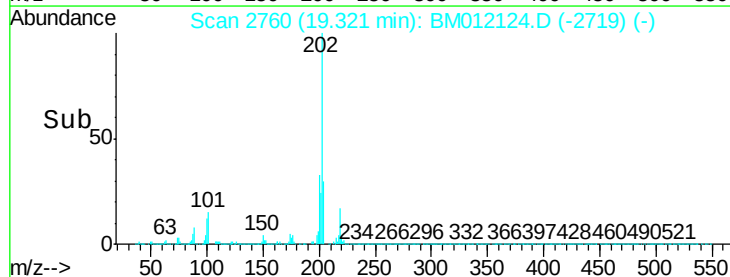
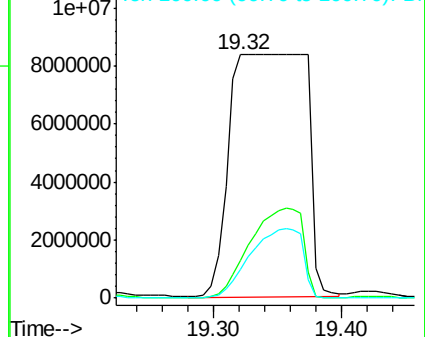
100 11.7 3.4 5.2#

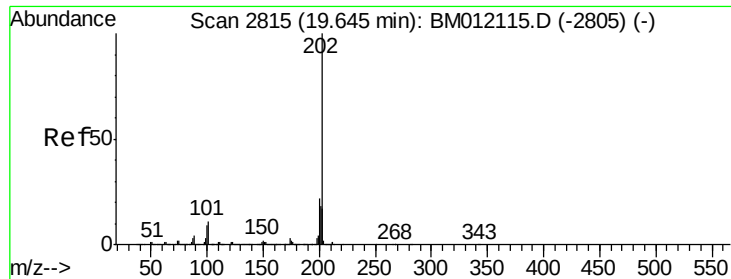


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 203.68 ng/ul m

RT: 19.69 min Scan# 2822

Delta R.T. 0.04 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

ClientSampleId :

B-54(1-2)-092817

Tgt Ion:202 Resp:33839992

Ion Ratio Lower Upper

202 100

101 18.6 5.1 7.7#

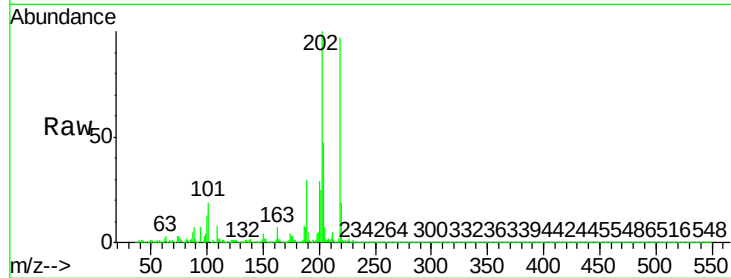
100 13.1 4.9 7.3#

Manual Integrations

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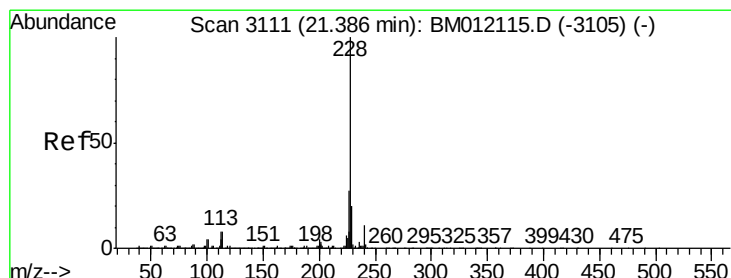
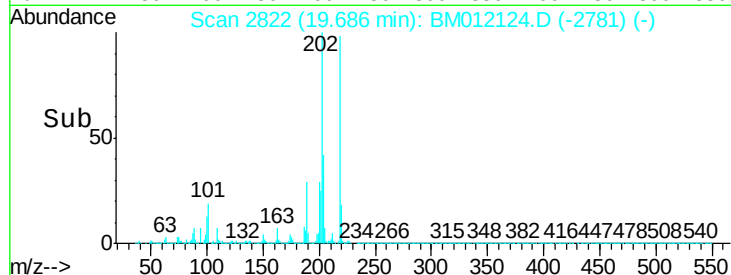
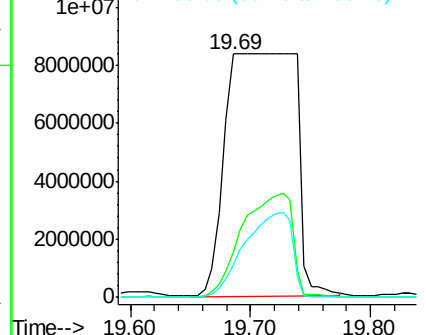
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Benzo(a)anthracene

Concen: 172.94 ng/ul m

RT: 21.43 min Scan# 3118

Delta R.T. 0.04 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Tgt Ion:228 Resp:28310295

Ion Ratio Lower Upper

228 100

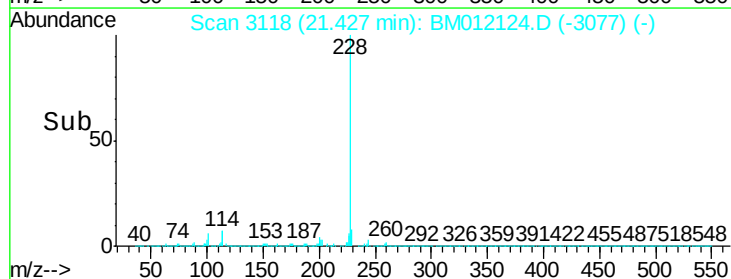
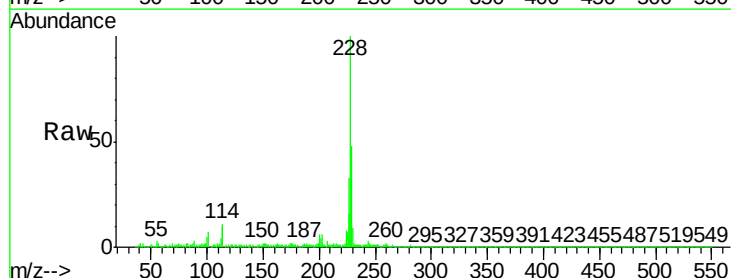
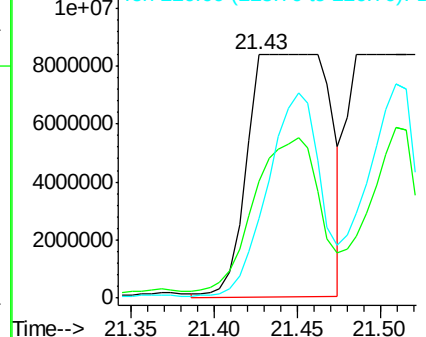
229 48.3 15.4 23.0#

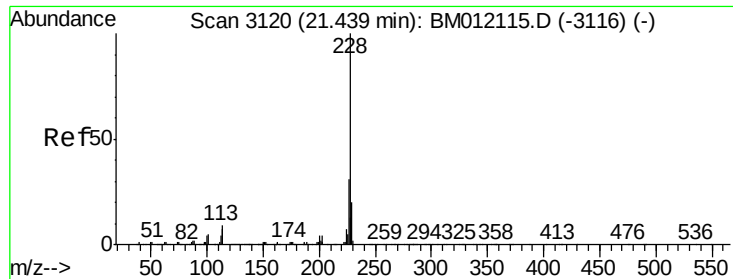
226 32.7 21.4 32.0#

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





#82

Chrysene

Concen: 153.97 ng/ul m

RT: 21.49 min Scan# 3128

Delta R.T. 0.05 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Instrument :

BNA_M

ClientSampleId :

B-54(1-2)-092817

Tgt Ion:228 Resp:23663012

Ion Ratio Lower Upper

228 100

226 35.1 23.4 35.2

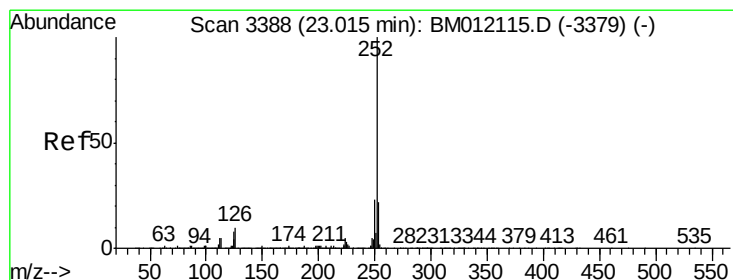
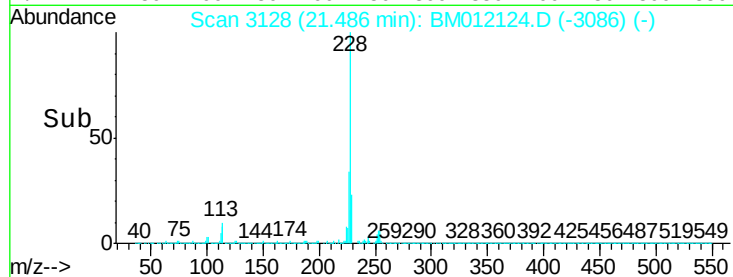
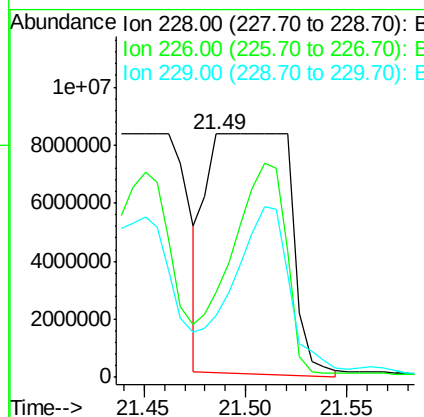
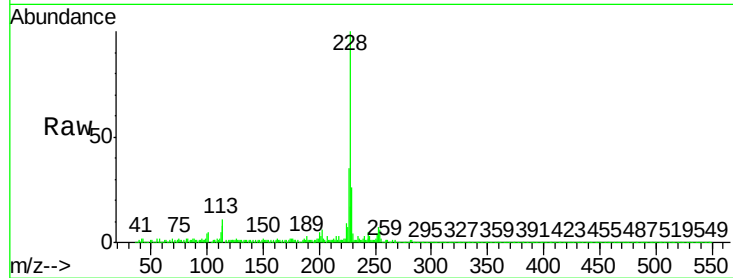
229 25.5 15.5 23.3#

Manual Integrations

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Sohil

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#85

Benzo(b)fluoranthene

Concen: 203.62 ng/ul m

RT: 23.10 min Scan# 3403

Delta R.T. 0.09 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

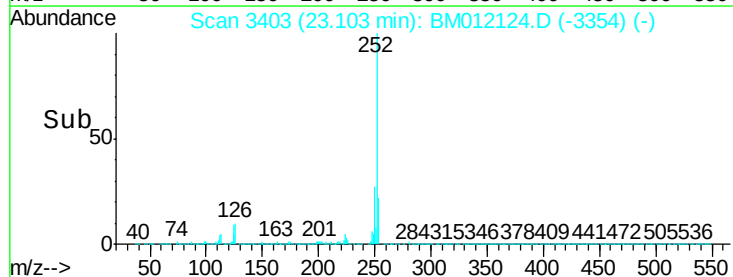
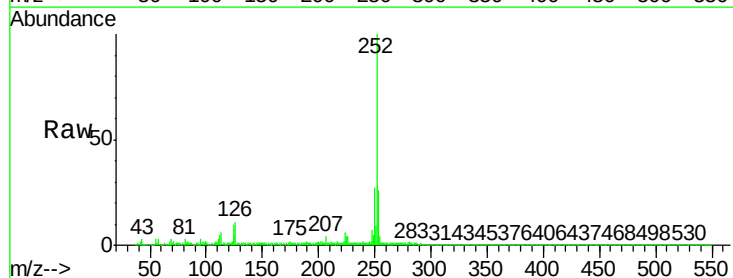
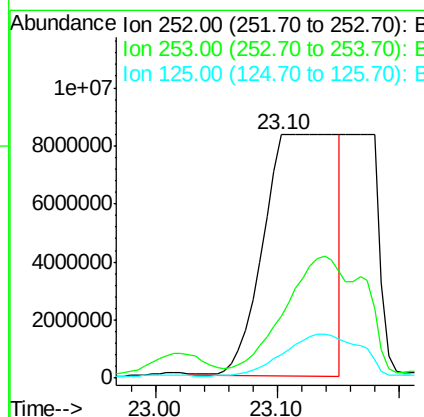
Tgt Ion:252 Resp:34256945

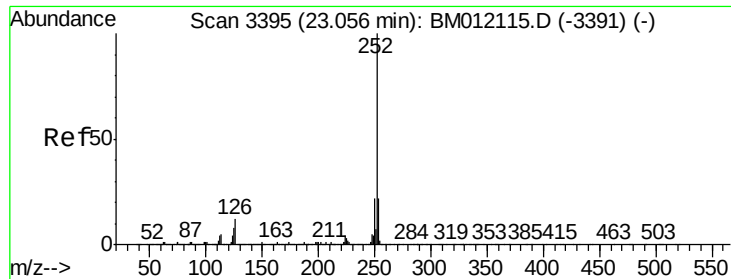
Ion Ratio Lower Upper

252 100

253 25.6 17.9 26.9

125 9.6 3.6 5.4#





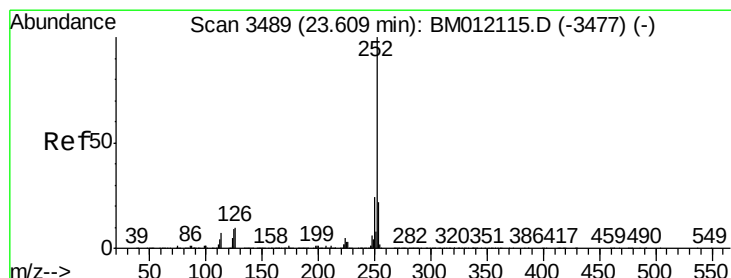
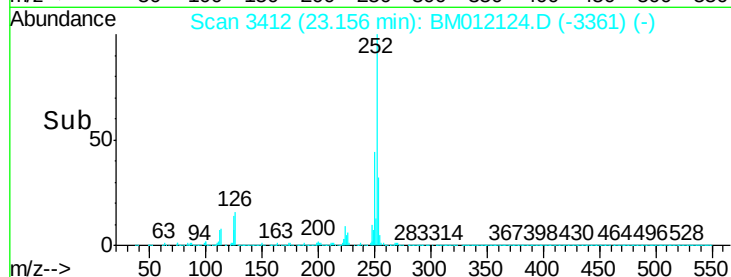
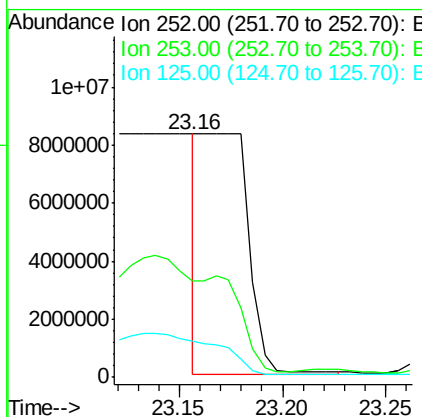
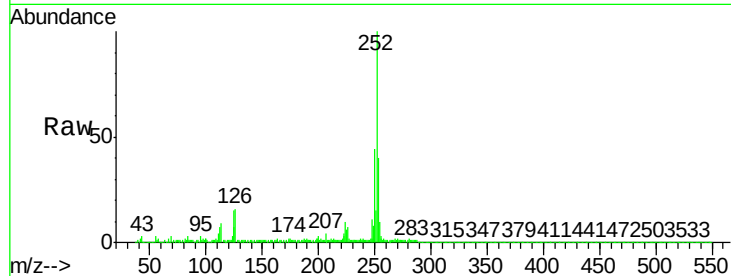
#86
Benzo(k)fluoranthene
Concen: 81.73 ng/ul m
RT: 23.16 min Scan# 3412
Delta R.T. 0.10 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Instrument :
BNA_M
ClientSampleId :
B-54(1-2)-092817

Tgt Ion:252 Resp:13250061
Ion Ratio Lower Upper
252 100
253 39.8 17.1 25.7#
125 14.7 3.4 5.2#

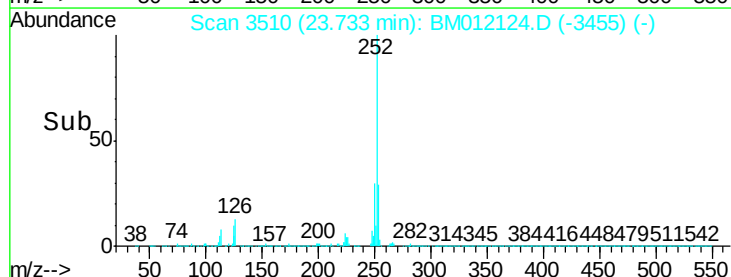
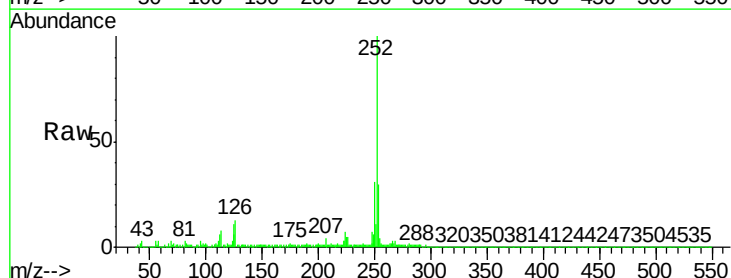
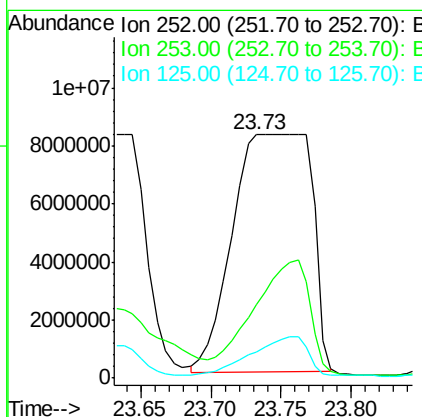
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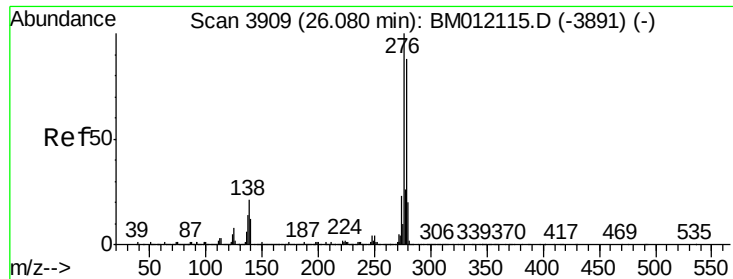
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#88
Benzo(a)pyrene
Concen: 198.77 ng/ul m
RT: 23.73 min Scan# 3510
Delta R.T. 0.12 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Tgt Ion:252 Resp:31517758
Ion Ratio Lower Upper
252 100
253 30.1 18.2 27.2#
125 10.9 4.0 6.0#





#89

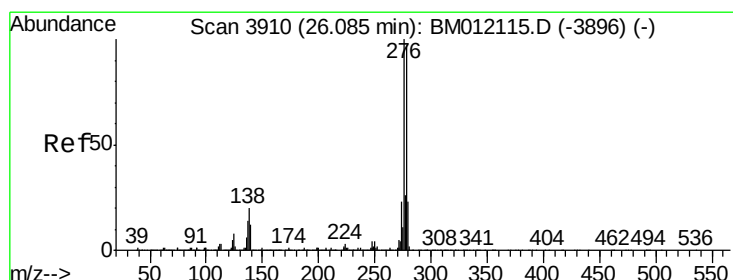
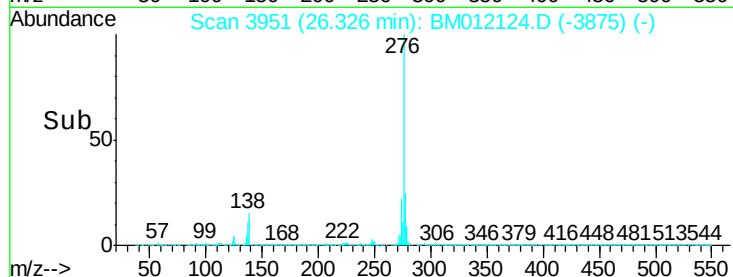
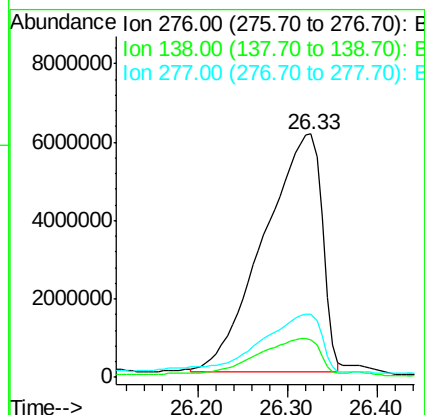
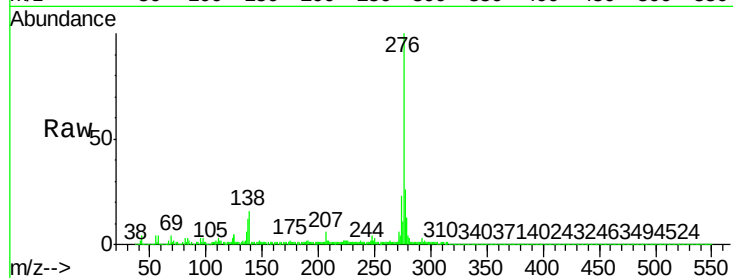
Indeno(1,2,3-cd)pyrene
Concen: 161.37 ng/ul m
RT: 26.33 min Scan# 3951
Delta R.T. 0.25 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Instrument :
BNA_M
ClientSampleId :
B-54(1-2)-092817

Tgt Ion:276 Resp:27172315
Ion Ratio Lower Upper
276 100
138 15.6 9.3 13.9#
277 25.8 19.9 29.9

Manual Integrations
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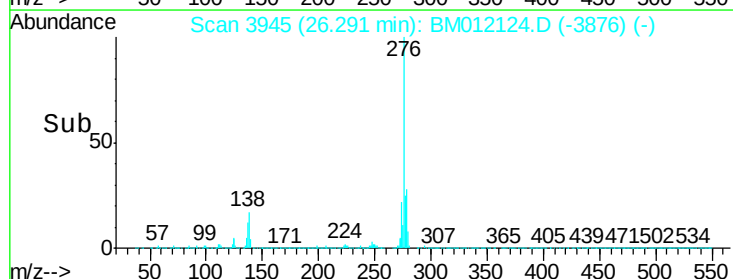
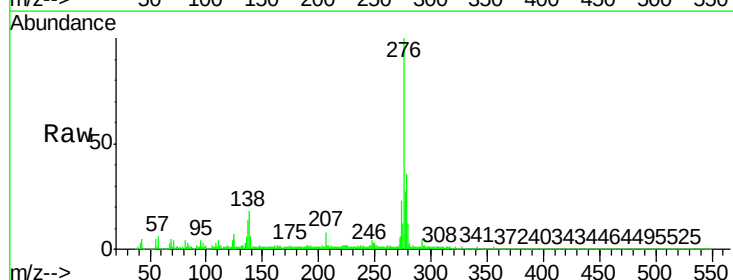
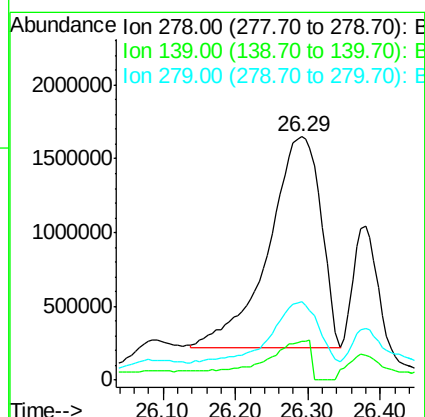
Sohil
10/15/2017 12:37:08 PM

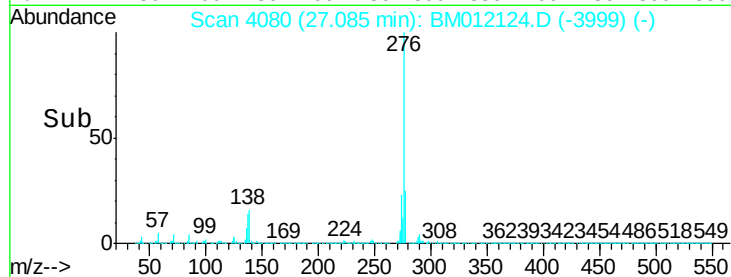
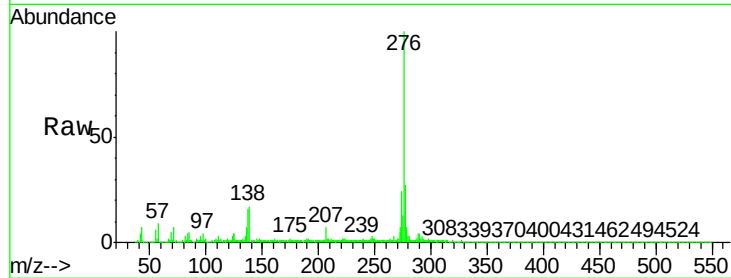
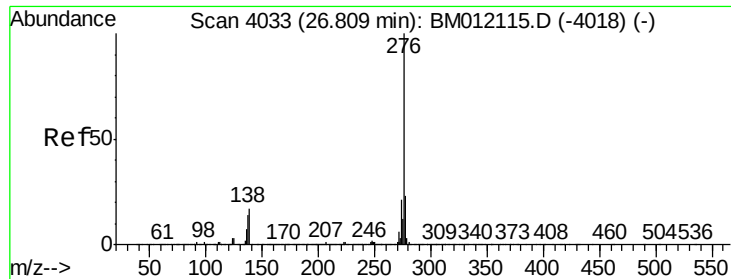


#90

Dibenzo(a,h)anthracene
Concen: 51.34 ng/ul
RT: 26.29 min Scan# 3945
Delta R.T. 0.21 min
Lab File: BM012124.D
Acq: 13 Oct 2017 06:28

Tgt Ion:278 Resp: 7267346
Ion Ratio Lower Upper
278 100
139 15.8 5.8 8.8#
279 32.4 18.6 27.8#





#91

Benzo(g,h,i)perylene

Concen: 178.81 ng/ul m

RT: 27.09 min Scan# 4080

Delta R.T. 0.28 min

Lab File: BM012124.D

Acq: 13 Oct 2017 06:28

Tgt Ion:	276	Resp:	24660603
Ion Ratio	Lower	Upper	
276	100		
138	17.5	8.5	12.7#
277	27.4	18.6	28.0

Instrument :

BNA_M

ClientSampleId :

B-54(1-2)-092817

Manual Integrations
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10/15/2017 12:37:08 PM

