

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092717\
 Data File : BM011743.D
 Acq On : 28 Sep 2017 03:10
 Operator : SJ/JU
 Sample : I5377-13
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CB3E7

Manual Integrations
 APPROVED

Sohil
 9/29/2017 2:23:01 PM

Quant Time: Sep 28 05:25:02 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM092717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Sep 28 05:09:12 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.94	152	261763	20.00	ng/ul	0.00
18) Naphthalene-d8	10.74	136	1183106	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.57	164	661315	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.32	188	1467586	20.00	ng/ul	0.00
75) Chrysene-d12	21.48	240	1367795	20.00	ng/ul	0.00
83) Perylene-d12	23.84	264	1084976	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.36	96	14429	2.46	ng/uL	0.00
5) Phenol-d5	7.09	99	337079	13.09	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.26	67	278946	14.94	ng/ul	0.00
9) 2-Chlorophenol-d4	7.46	132	279177	14.58	ng/ul	0.00
13) 4-Methylphenol-d8	8.63	113	236352	11.72	ng/ul	0.00
19) Nitrobenzene-d5	9.10	128	136037	14.74	ng/ul	0.00
22) 2-Nitrophenol-d4	9.82	143	147078	14.94	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.36	165	261973	13.95	ng/ul	0.00
29) 4-Chloroaniline-d4	10.87	131	149584	7.20	ng/ul	0.00
43) Dimethylphthalate-d6	13.97	166	890283	15.70	ng/ul	0.00
46) Acenaphthylene-d8	14.26	160	1064501	15.52	ng/ul	0.00
51) 4-Nitrophenol-d4	14.76	143	54494	5.62	ng/ul	0.00
57) Fluorene-d10	15.56	176	774048	15.85	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.67	200	74693	7.51	ng/ul	0.00
70) Anthracene-d10	17.41	188	1169834	15.66	ng/ul	0.00
76) Pyrene-d10	19.70	212	1357671	20.80	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.69	264	834123	16.06	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.79	128	93839	1.518	ng/ul	97
44) Dimethylphthalate	14.02	163	183125	3.376	ng/ul	99
49) Acenaphthene	14.63	153	111732	2.384	ng/ul	99
53) Dibenzofuran	14.97	168	98764	1.535	ng/ul	93
58) Fluorene	15.62	166	121951	2.238	ng/ul	99
69) Phenanthrene	17.36	178	2308240	28.102	ng/ul	98
71) Anthracene	17.44	178	429845	5.079	ng/ul	99
72) Carbazole	17.72	167	135242	1.824	ng/ul	95
74) Fluoranthene	19.37	202	3487498	34.776	ng/ul#	91
77) Pyrene	19.73	202	3226968	39.590	ng/ul#	88
80) Benzo(a)anthracene	21.46	228	1487623	19.440	ng/ul	98
82) Chrysene	21.52	228	1373056	19.024	ng/ul	96
85) Benzo(b)fluoranthene	23.13	252	1556114m	24.309	ng/ul	
86) Benzo(k)fluoranthene	23.17	252	542226m	8.303	ng/ul	
88) Benzo(a)pyrene	23.74	252	1069640	17.300	ng/ul#	95
89) Indeno(1,2,3-cd)pyrene	26.26	276	693698	10.776	ng/ul#	93
90) Dibenzo(a,h)anthracene	26.26	278	184749m	3.427	ng/ul	
91) Benzo(g,h,i)perylene	27.01	276	664853	12.443	ng/ul#	90

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

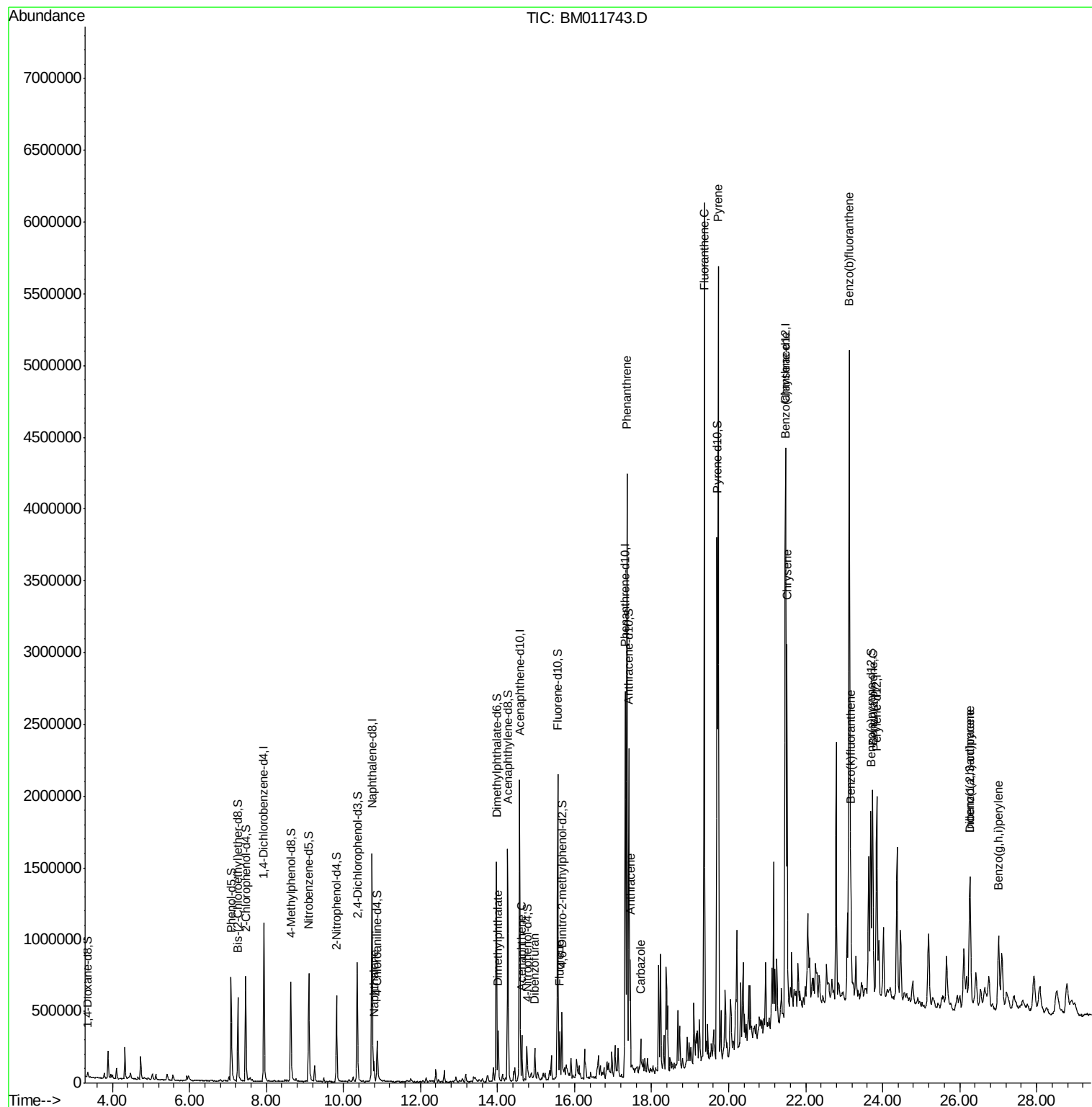
Data Path : Z:\HPCHEM1\BNA M\DATA\BM092717\
Data File : BM011743.D
Acq On : 28 Sep 2017 03:10
Operator : SJ/JU
Sample : I5377-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

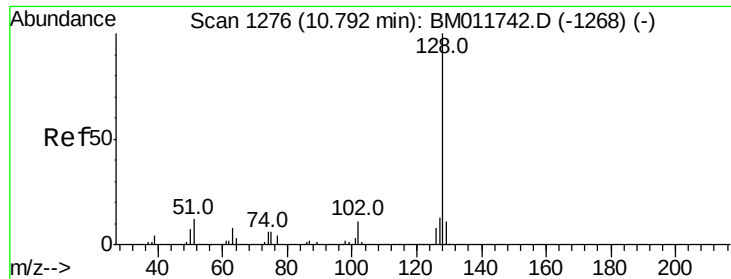
Instrument :
BNA_M
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Quant Time: Sep 28 05:25:02 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM092717.M
Quant Title : SVOA CALIBRATION
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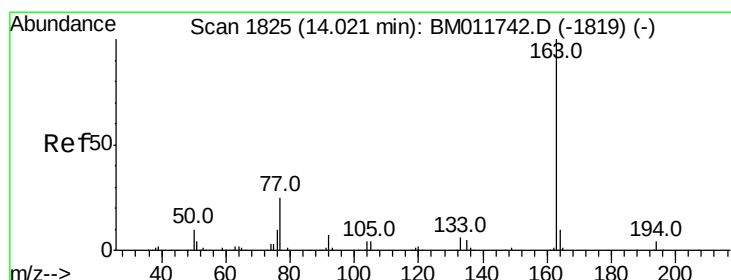
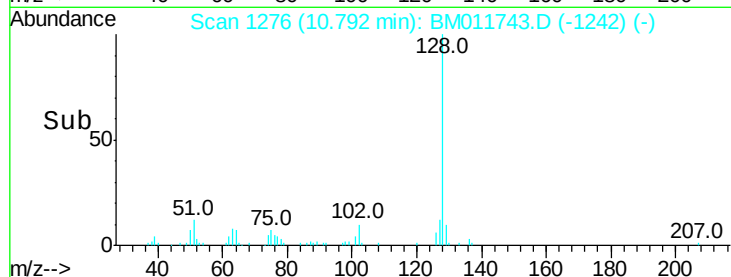
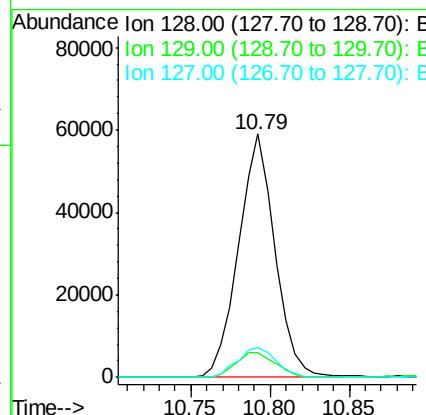
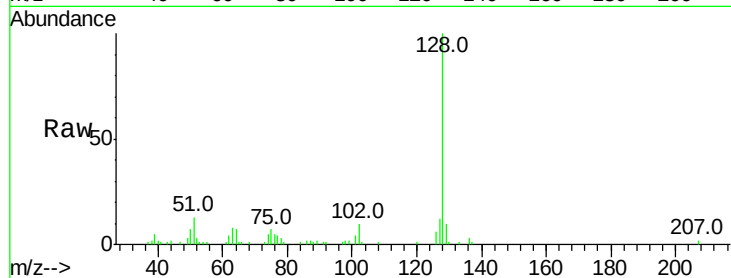
#28
Naphthalene
Concen: 1.518 ng/ul
RT: 10.79 min Scan# 1276
Delta R.T. 0.00 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Instrument :
BNA_M
ClientSampleId :
CB3E7

Tot Ion:128	Resp:	93839
Ion Ratio	Lower	Upper
128 100		
129 9.9	8.8	13.2
127 12.2	10.6	16.0

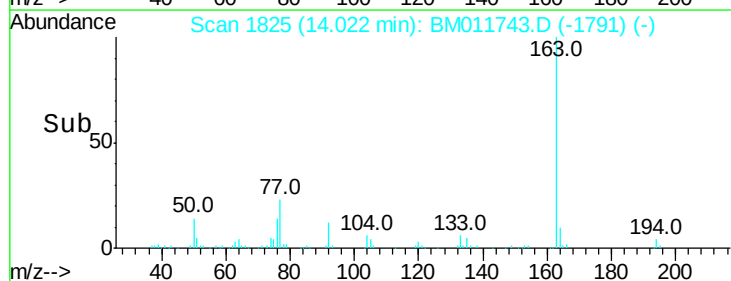
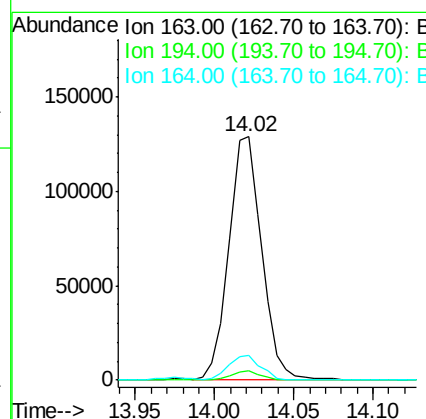
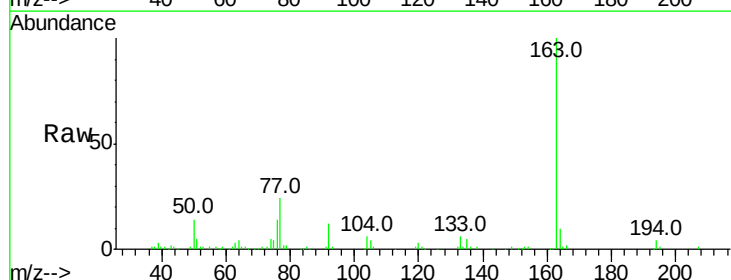
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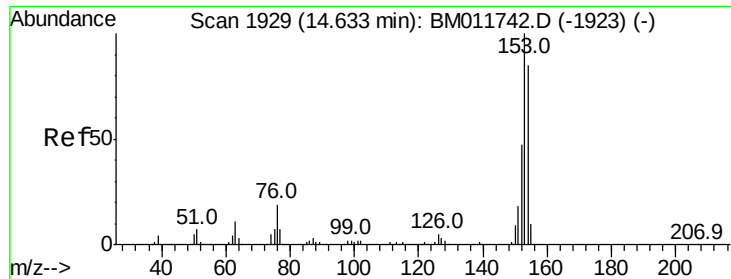
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#44
Dimethylphthalate
Concen: 3.376 ng/ul
RT: 14.02 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Tgt Ion:163	Resp:	183125
Ion Ratio	Lower	Upper
163 100		
194 3.8	3.5	5.3
164 10.2	8.2	12.4





#49

Acenaphthene

Concen: 2.384 ng/ul

RT: 14.63 min Scan# 1929

Delta R.T. 0.00 min

Lab File: BM011743.D

Acq: 28 Sep 2017 03:10

Instrument :

BNA_M

ClientSampled :

CB3E7

Tot Ion:153 Resp: 111732

Ion Ratio Lower Upper

153 100

152 46.3 37.6 56.4

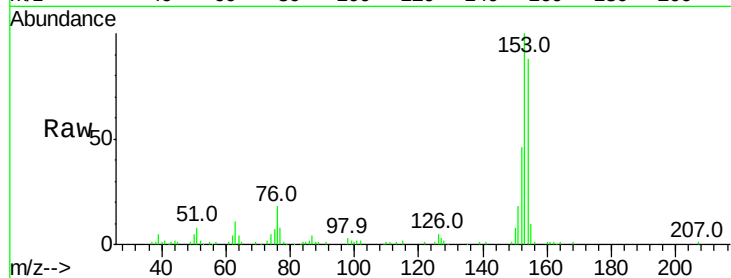
154 87.7 70.4 105.6

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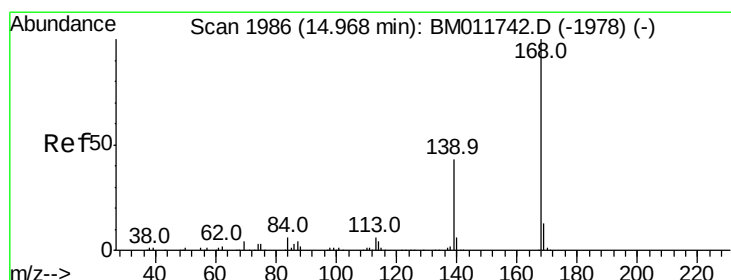
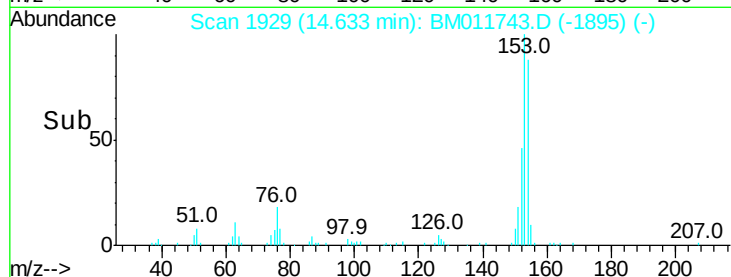
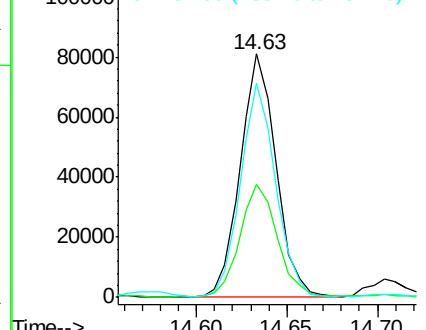
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.535 ng/ul

RT: 14.97 min Scan# 1986

Delta R.T. 0.00 min

Lab File: BM011743.D

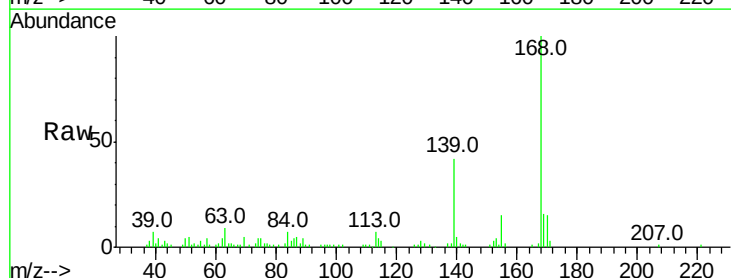
Acq: 28 Sep 2017 03:10

Tgt Ion:168 Resp: 98764

Ion Ratio Lower Upper

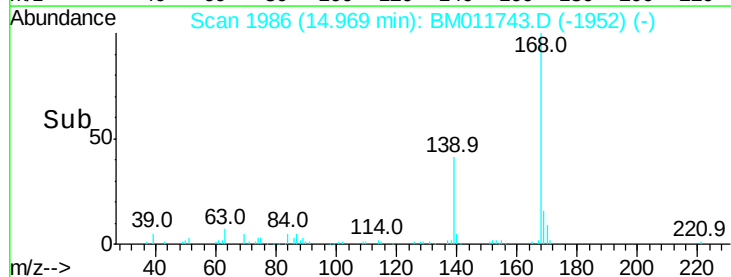
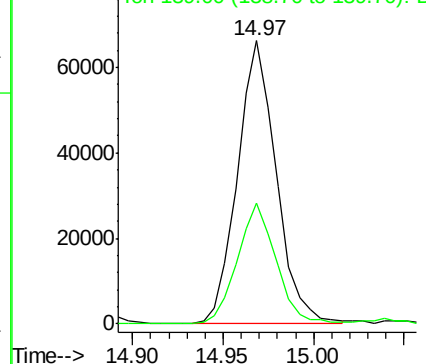
168 100

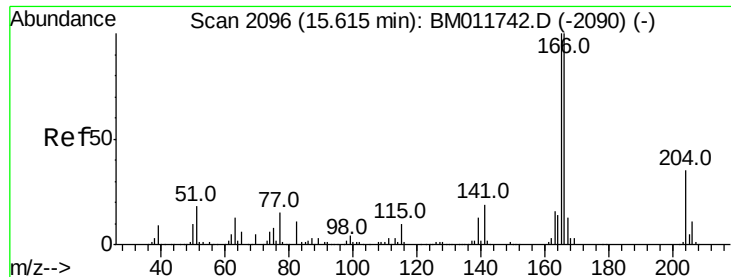
139 42.5 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





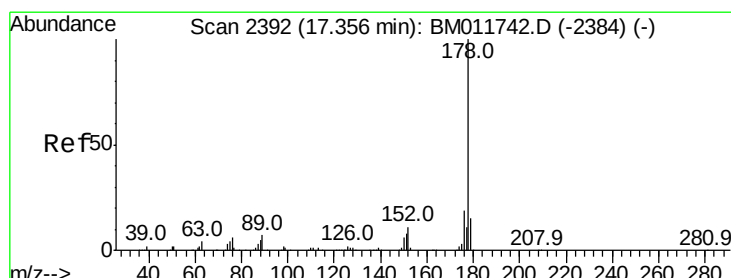
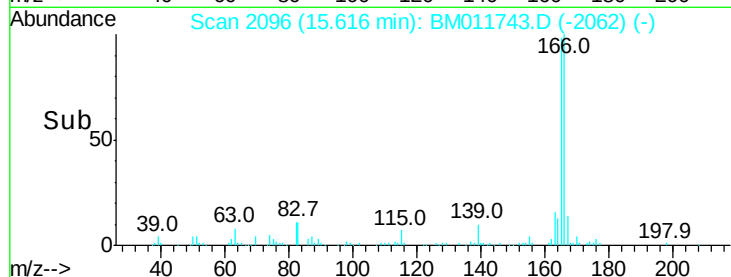
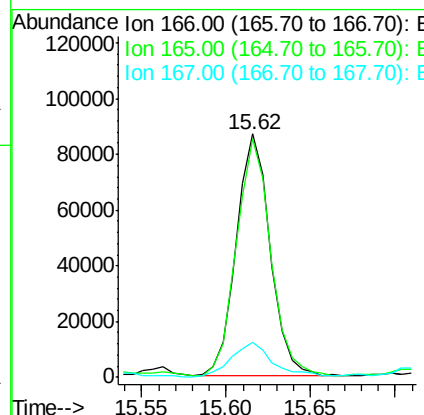
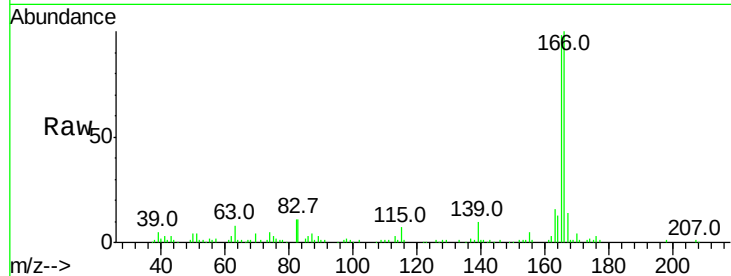
#58
 Fluorene
 Concen: 2.238 ng/ul
 RT: 15.62 min Scan# 2096
 Delta R.T. 0.00 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Instrument :
 BNA_M
 ClientSampleId :
 CB3E7

Tot Ion	Ratio	Resp	Lower	Upper
166	100	121951		
165	98.2	77.9	116.9	
167	14.2	10.6	16.0	

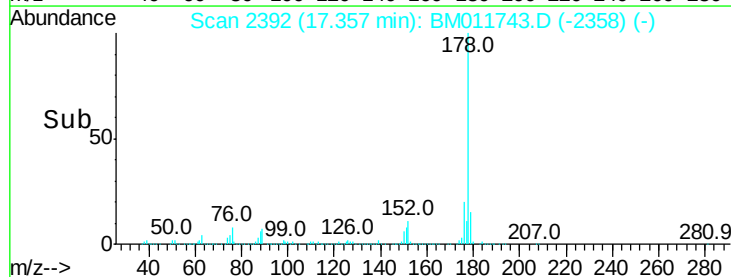
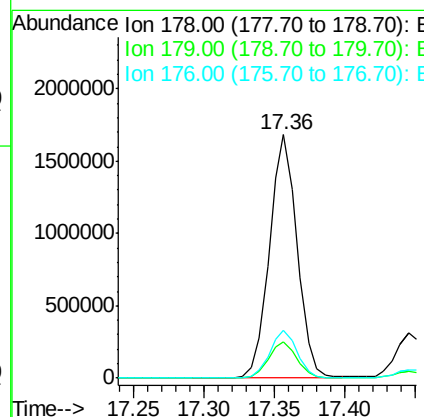
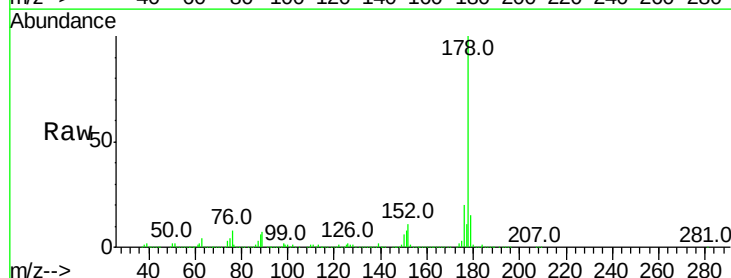
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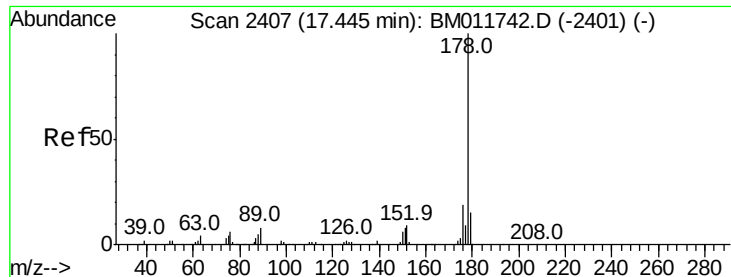
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#69
 Phenanthrene
 Concen: 28.102 ng/ul
 RT: 17.36 min Scan# 2392
 Delta R.T. 0.00 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2308240		
179	15.0	12.6	19.0	
176	19.8	14.9	22.3	





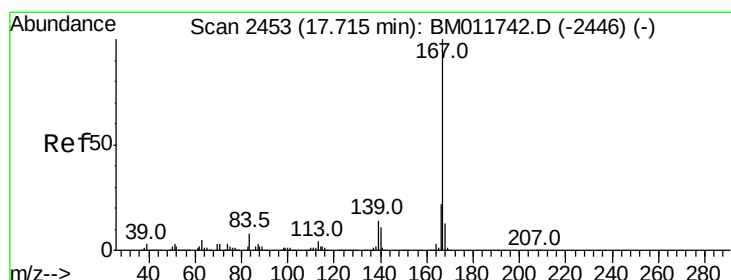
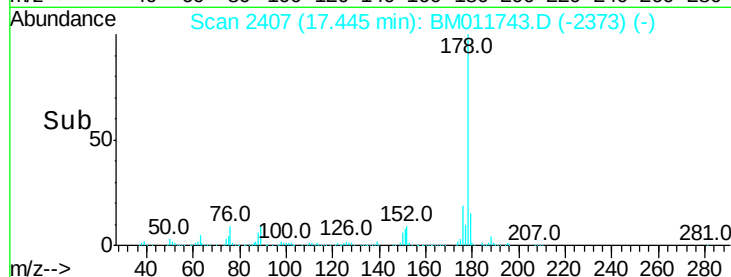
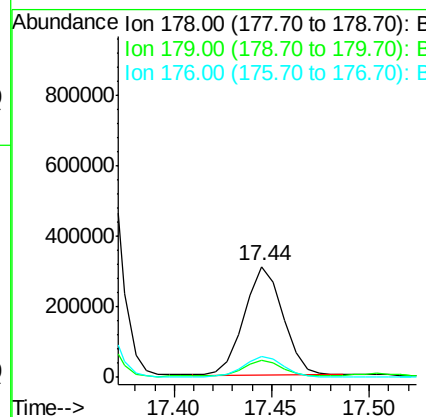
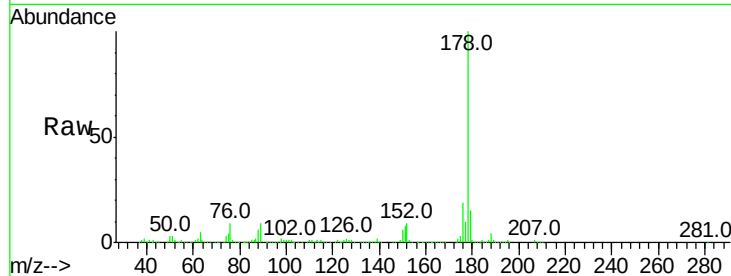
#71
 Anthracene
 Concen: 5.079 ng/ul
 RT: 17.44 min Scan# 2407
 Delta R.T. 0.00 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Instrument :
 BNA_M
 ClientSampled :
 CB3E7

Tot Ion	Ratio	Lower	Upper
178	100		
179	14.9	11.7	17.5
176	18.9	14.6	21.8

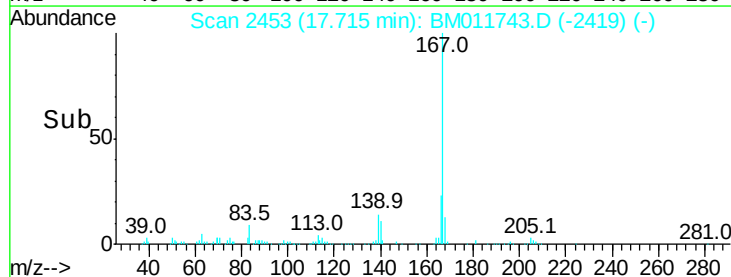
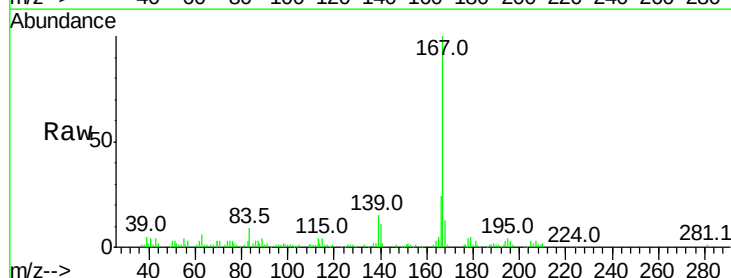
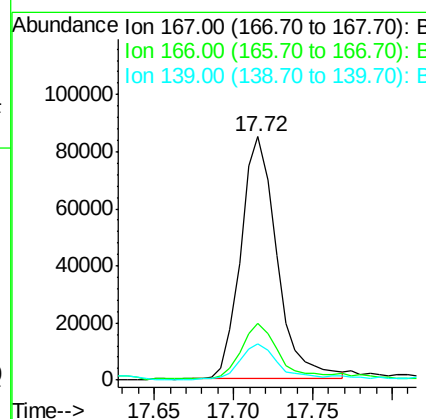
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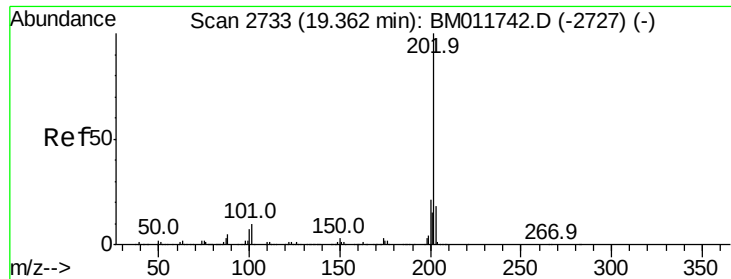
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#72
 Carbazole
 Concen: 1.824 ng/ul
 RT: 17.72 min Scan# 2453
 Delta R.T. 0.00 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.1	25.7
139	14.7	10.0	15.0





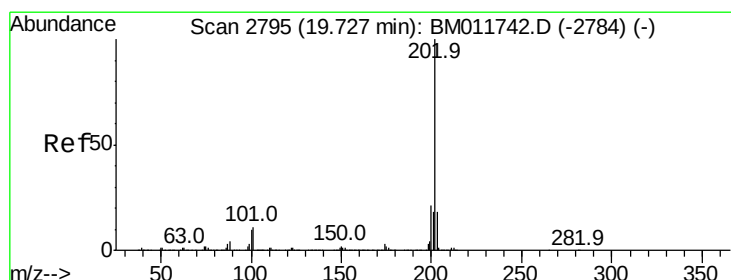
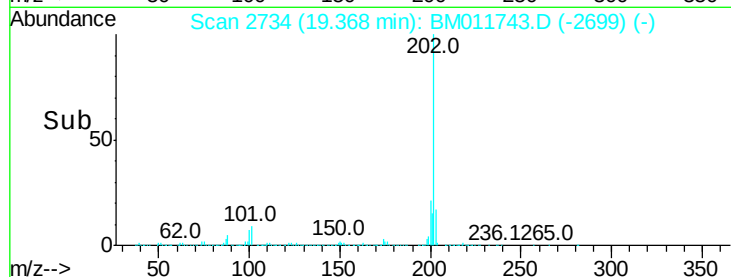
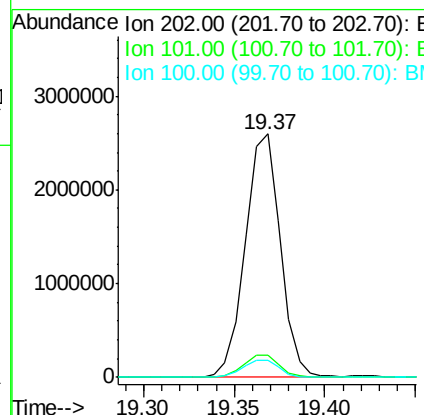
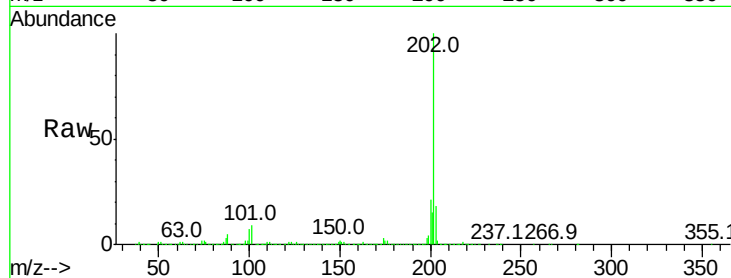
#74
 Fluoranthene
 Concen: 34.776 ng/ul
 RT: 19.37 min Scan# 2734
 Delta R.T. 0.01 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Instrument :
 BNA_M
 ClientSampleId :
 CB3E7

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.1	4.6	7.0#
100	7.2	3.4	5.2#

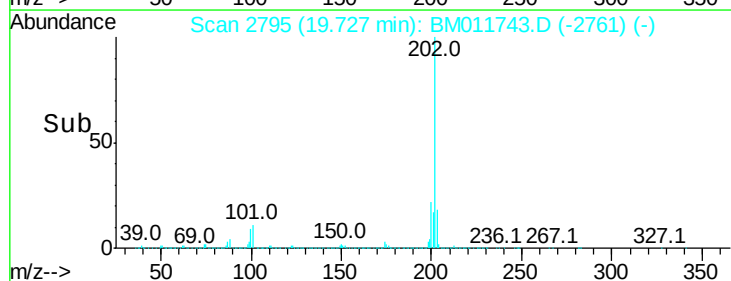
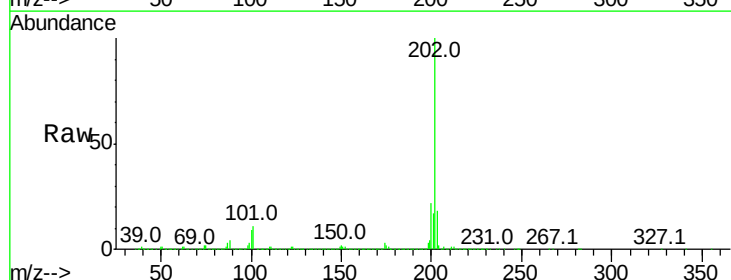
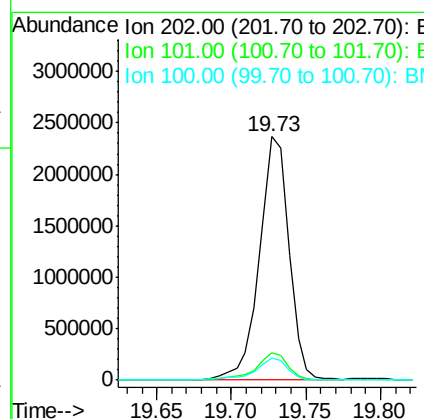
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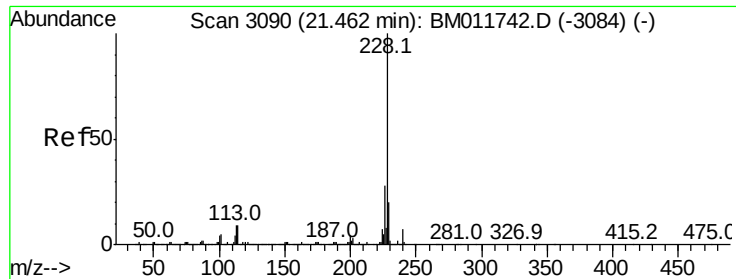
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#77
 Pyrene
 Concen: 39.590 ng/ul
 RT: 19.73 min Scan# 2795
 Delta R.T. 0.00 min
 Lab File: BM011743.D
 Acq: 28 Sep 2017 03:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	5.1	7.7#
100	9.3	4.9	7.3#





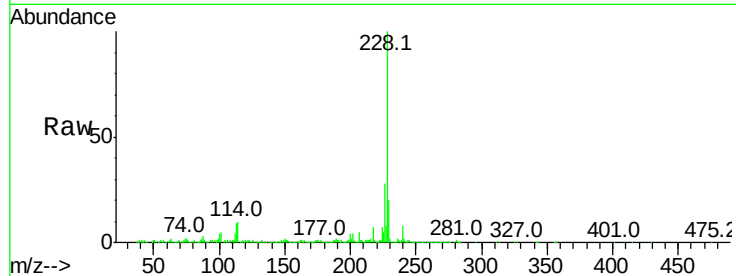
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Benzo(a)anthracene
Concen: 19.440 ng/ul
RT: 21.46 min Scan# 3090
Delta R.T. 0.00 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Instrument :
BNA_M
ClientSampled :
CB3E7

Tot Ion	Ratio	Lower	Upper
228	100		
229	20.3	15.4	23.0
226	27.9	21.4	32.0

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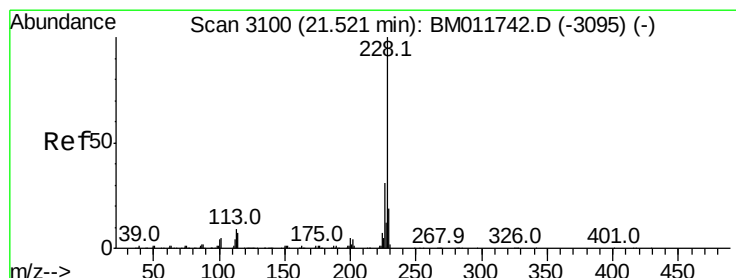
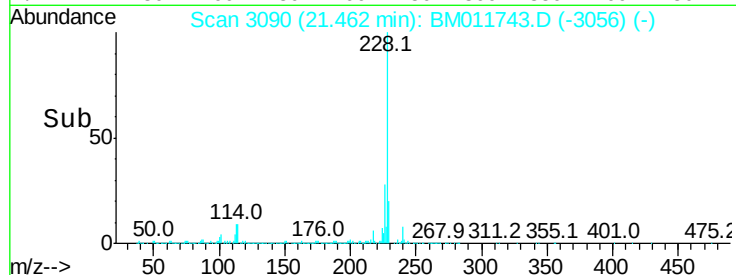
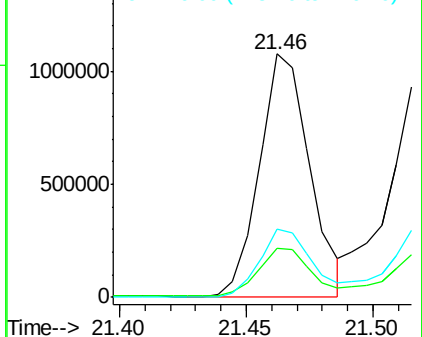


Abundance

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: 19.024 ng/ul
RT: 21.52 min Scan# 3099
Delta R.T. -0.01 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

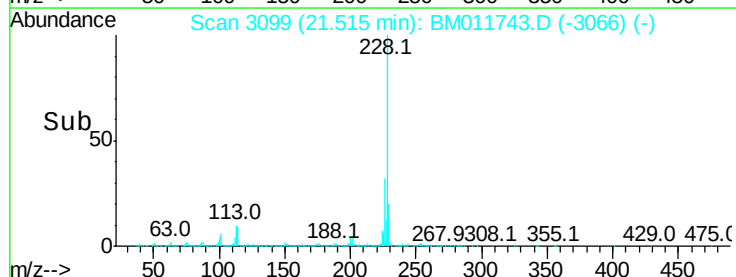
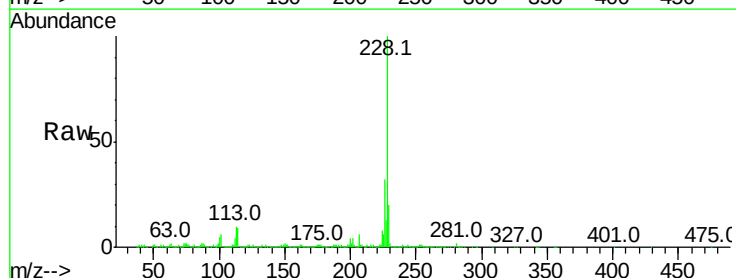
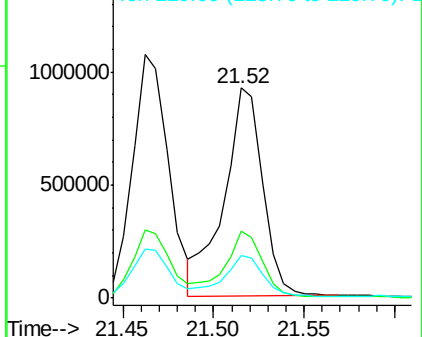
Tgt Ion	Ratio	Lower	Upper
228	100		
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229	20.5	15.5	23.3

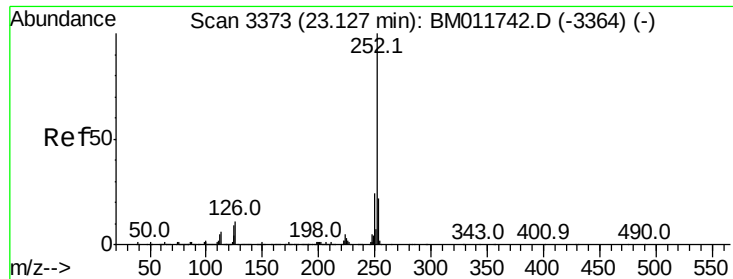
Abundance

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





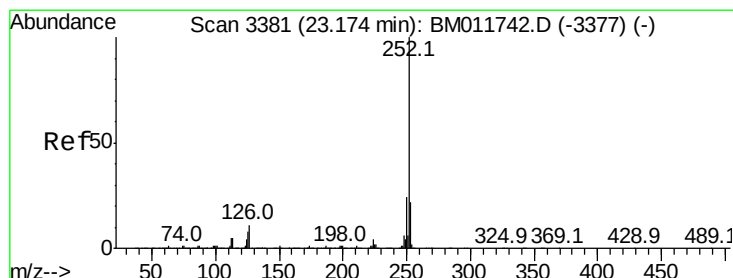
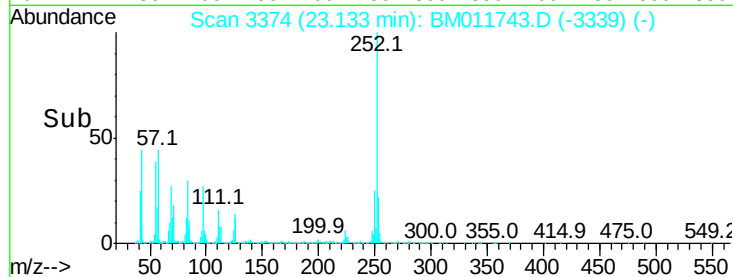
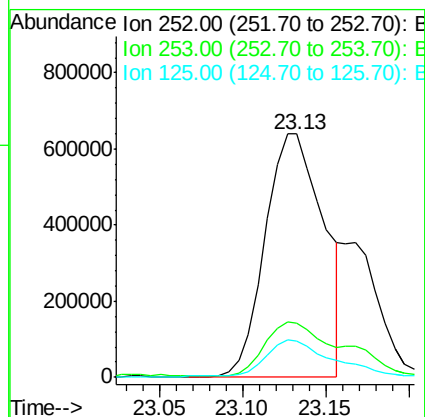
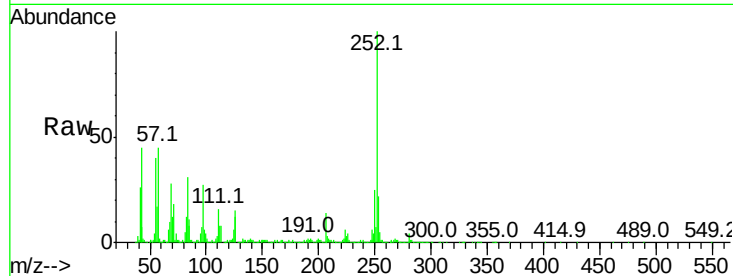
#85
Benzo(b)fluoranthene
Concen: 24.309 ng/ul m
RT: 23.13 min Scan# 3374
Delta R.T. 0.01 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Instrument :
BNA_M
ClientSampleId :
CB3E7

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	14.7	3.6	5.4#

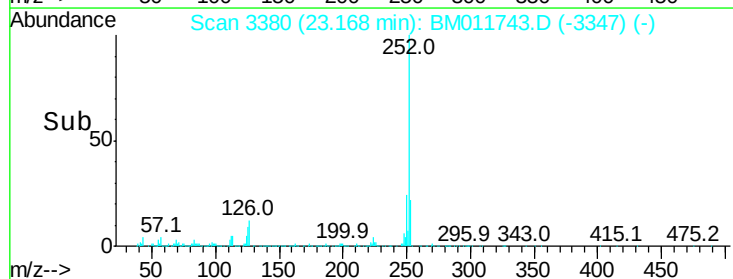
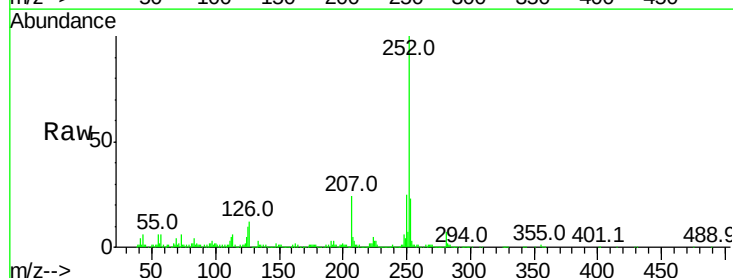
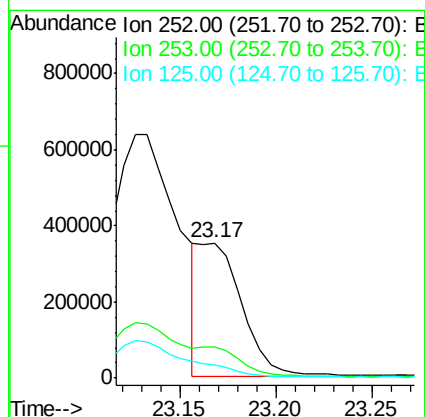
Manual Integrations
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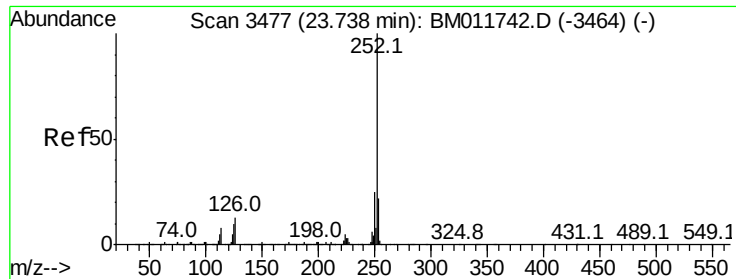
Sohil
9/29/2017 2:23:01 PM



#86
Benzo(k)fluoranthene
Concen: 8.303 ng/ul m
RT: 23.17 min Scan# 3380
Delta R.T. -0.01 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	10.0	3.4	5.2#





#88

Benzo(a)pyrene

Concen: 17.300 ng/ul

RT: 23.74 min Scan# 3477

Delta R.T. 0.00 min

Lab File: BM011743.D

Acq: 28 Sep 2017 03:10

Instrument :

BNA_M

ClientSampleId :

CB3E7

Tot Ion:252 Resp: 1069640

Ion Ratio Lower Upper

252 100

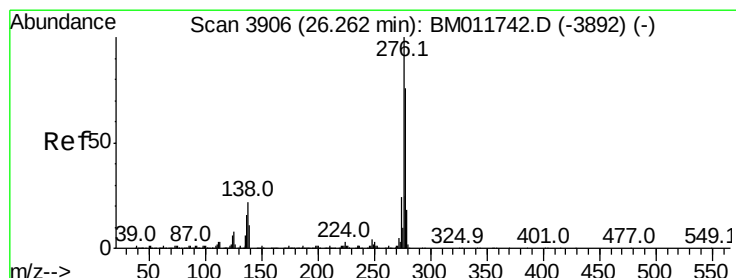
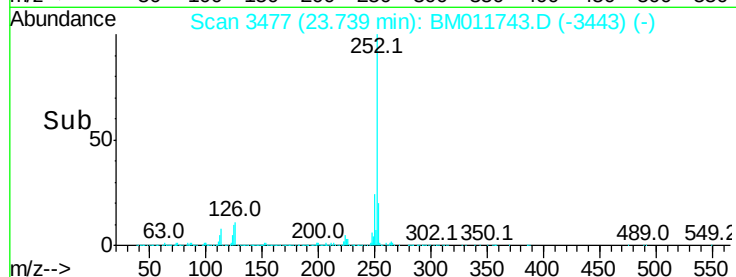
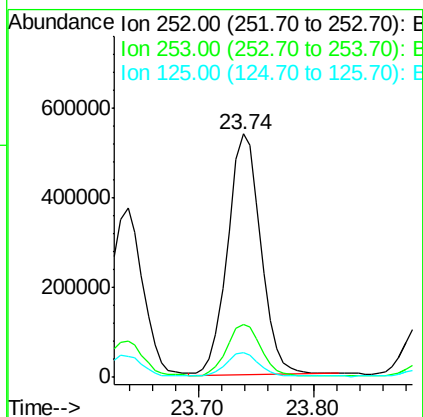
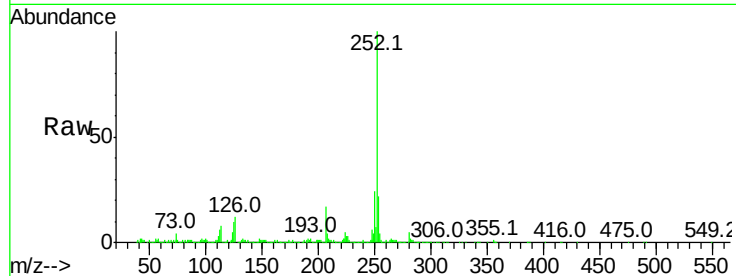
253 21.7 18.2 27.2

125 10.3 4.0 6.0#

Manual Integrations
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Sohil

9/29/2017 2:23:01 PM



#89

Indeno(1,2,3-cd)pyrene

Concen: 10.776 ng/ul

RT: 26.26 min Scan# 3906

Delta R.T. 0.00 min

Lab File: BM011743.D

Acq: 28 Sep 2017 03:10

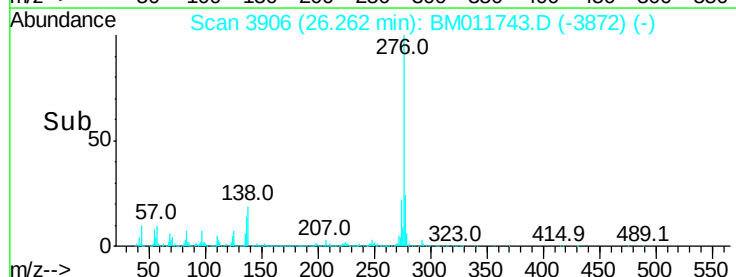
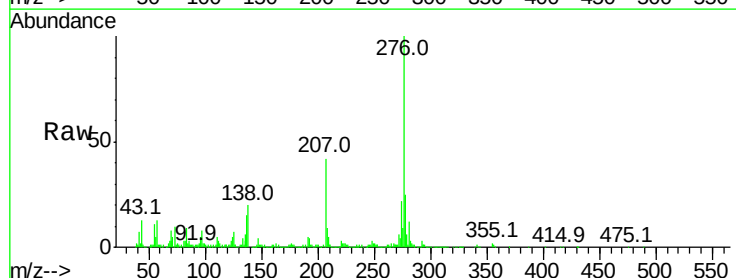
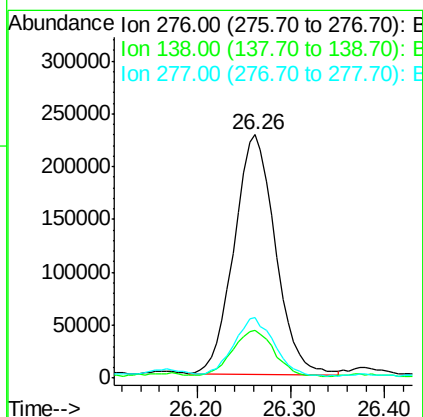
Tgt Ion:276 Resp: 693698

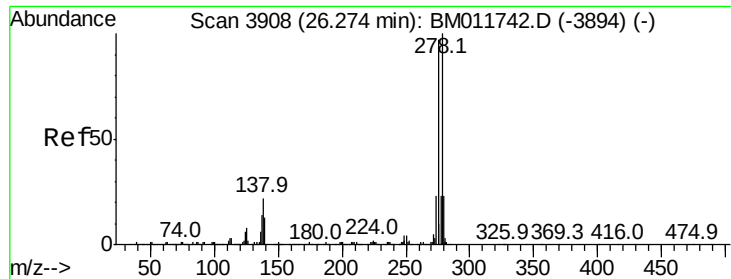
Ion Ratio Lower Upper

276 100

138 19.5 9.3 13.9#

277 24.7 19.9 29.9





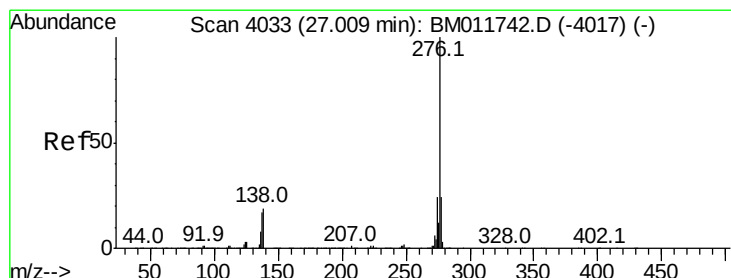
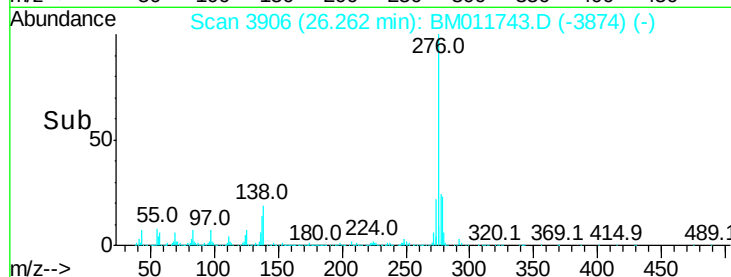
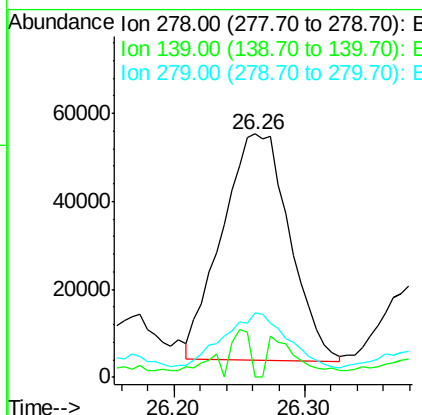
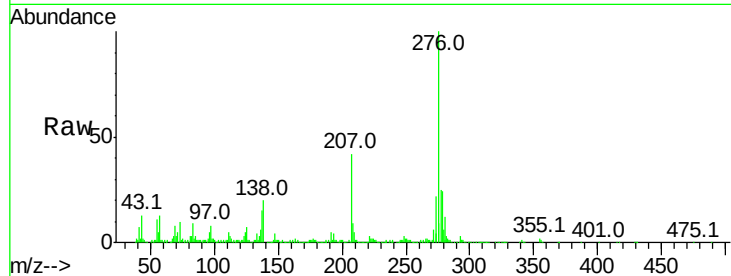
#90
Dibenzo(a,h)anthracene
Concen: 3.427 ng/ul m
RT: 26.26 min Scan# 3906
Delta R.T. -0.01 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Instrument :
BNA_M
ClientSampled :
CB3E7

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	5.8	8.8#
279	26.3	18.6	27.8

Manual Integrations
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Sohil
9/29/2017 2:23:01 PM



#91
Benzo(g,h,i)perylene
Concen: 12.443 ng/ul
RT: 27.01 min Scan# 4033
Delta R.T. 0.00 min
Lab File: BM011743.D
Acq: 28 Sep 2017 03:10

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.7	8.5	12.7#
277	24.1	18.6	28.0

