

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121117\
 Data File : BM013327.D
 Acq On : 12 Dec 2017 04:54
 Operator : SJ/JU
 Sample : I6759-12 10X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A20

Manual Integrations
 APPROVED

Sohil
 12/12/2017 3:57:31 PM

Quant Time: Dec 12 12:58:51 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 12 02:07:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	302132	20.00	ng/ul	0.00
18) Naphthalene-d8	10.47	136	1366871	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.34	164	769033	20.00	ng/ul	0.01
61) Phenanthrene-d10	17.13	188	1808765	20.00	ng/ul	0.05
75) Chrysene-d12	21.29	240	1665423	20.00	ng/ul	0.02
83) Perylene-d12	23.50	264	1245253	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	1954	0.32	ng/uL	0.00
5) Phenol-d5	6.87	99	66348	2.54	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.03	67	39882	2.67	ng/ul	0.00
9) 2-Chlorophenol-d4	7.22	132	58542	2.87	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	62387	2.79	ng/ul	0.00
19) Nitrobenzene-d5	8.84	128	30964	2.86	ng/ul	0.00
22) 2-Nitrophenol-d4	9.56	143	31924	2.75	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.10	165	63667	2.66	ng/ul	0.00
29) 4-Chloroaniline-d4	10.61	131	87226	3.97	ng/ul	0.00
43) Dimethylphthalate-d6	13.76	166	191068	2.79	ng/ul	0.01
46) Acenaphthylene-d8	14.02	160	245871	2.91	ng/ul	0.00
51) 4-Nitrophenol-d4	14.56	143	38377	3.23	ng/ul	0.02
57) Fluorene-d10	15.33	176	169622	2.88	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.49	200	2115	0.19	ng/ul	0.03
70) Anthracene-d10	17.23	188	257880	2.85	ng/ul	0.06
76) Pyrene-d10	19.52	212	291267m	3.51	ng/ul	0.04
87) Benzo(a)pyrene-d12	23.36	264	186322	2.94	ng/ul	0.01

Target Compounds

					Ovalue	
28) Naphthalene	10.52	128	5057887	71.923	ng/ul	99
34) 2-Methylnaphthalene	12.14	142	4533384	85.755	ng/ul	94
40) 1,1'-Biphenyl	13.16	154	195432	3.007	ng/ul#	96
47) Acenaphthylene	14.05	152	958856	12.269	ng/ul#	92
49) Acenaphthene	14.41	153	29648392m	556.907	ng/ul	
53) Dibenzofuran	14.74	168	22159024m	281.946	ng/ul	
58) Fluorene	15.40	166	26450531m	406.821	ng/ul	
68) Pentachlorophenol	16.79	266	138904	10.242	ng/ul	98
69) Phenanthrene	17.13	178	55495204m	540.050	ng/ul	
71) Anthracene	17.26	178	15435095m	146.949	ng/ul	
72) Carbazole	17.51	167	10901064	120.658	ng/ul	99
74) Fluoranthene	19.16	202	41173272m	326.957	ng/ul	
77) Pyrene	19.52	202	35139603m	347.301	ng/ul	
80) Benzo(a)anthracene	21.27	228	16005448	151.471	ng/ul#	85
82) Chrysene	21.33	228	13791293	140.681	ng/ul#	86
85) Benzo(b)fluoranthene	22.84	252	6842407	81.511	ng/ul#	98
86) Benzo(k)fluoranthene	22.88	252	2605681	32.984	ng/ul#	97
88) Benzo(a)pyrene	23.41	252	3767095	49.957	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	25.73	276	945803	12.641	ng/ul#	97
90) Dibenz(a,h)anthracene	25.74	278	272987	4.285	ng/ul#	91
91) Benzo(a,h,i)perylene	26.41	276	709871	12.028	ng/ul#	96

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Instrument :
BNA_M
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F9A20

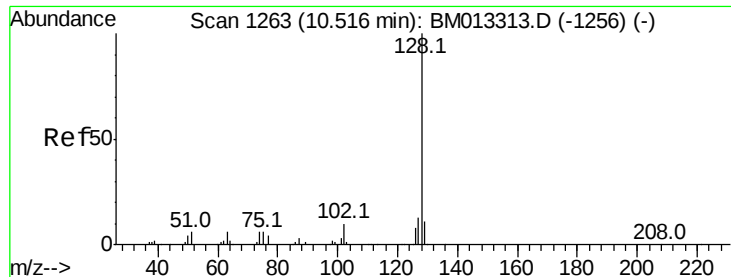
Manual Integrations
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12/12/2017 3:57:31 PM

Quant Time: Dec 12 12:58:51 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 12 02:07:09 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



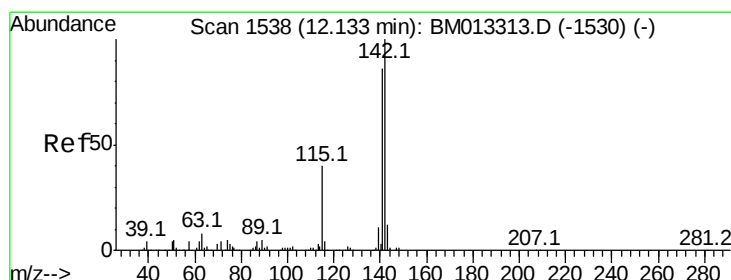
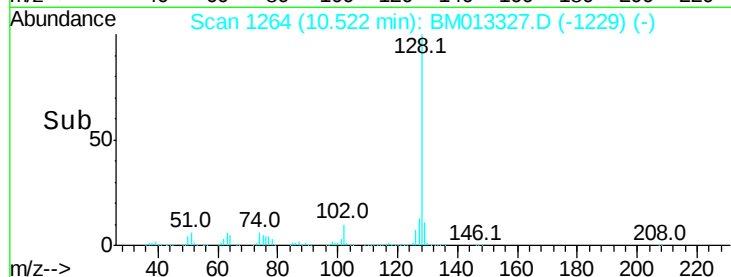
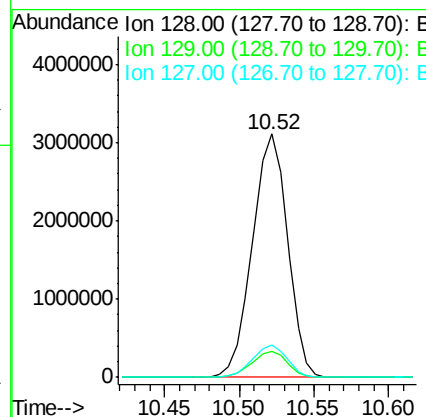
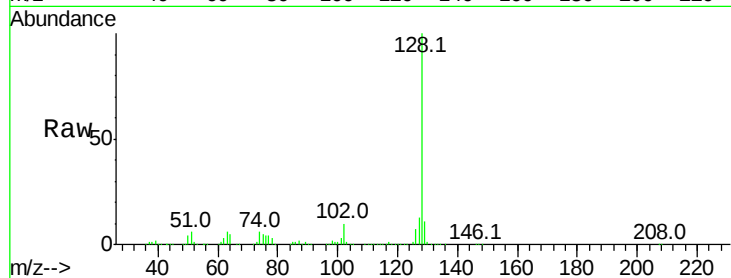
#28
Naphthalene
Concen: 71.923 ng/ul
RT: 10.52 min Scan# 1264
Delta R.T. 0.01 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Instrument :
BNA_M
ClientSampleId :
F9A20

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

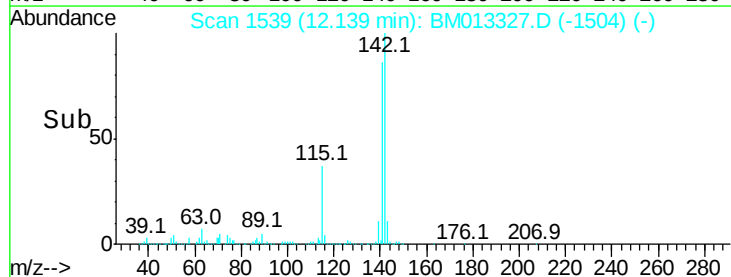
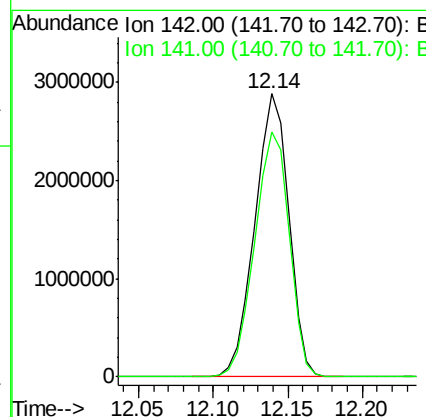
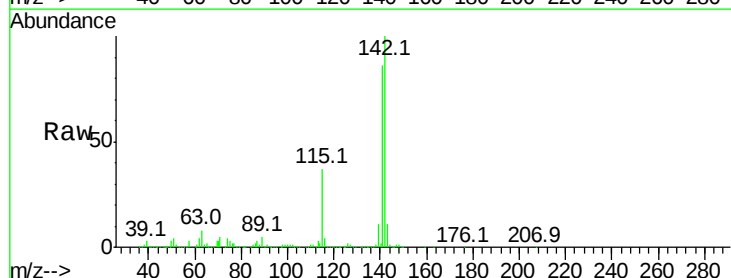
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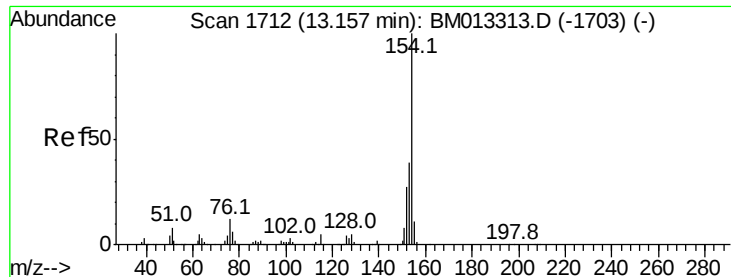
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#34
2-Methylnaphthalene
Concen: 85.755 ng/ul
RT: 12.14 min Scan# 1539
Delta R.T. 0.01 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.4	74.1	111.1





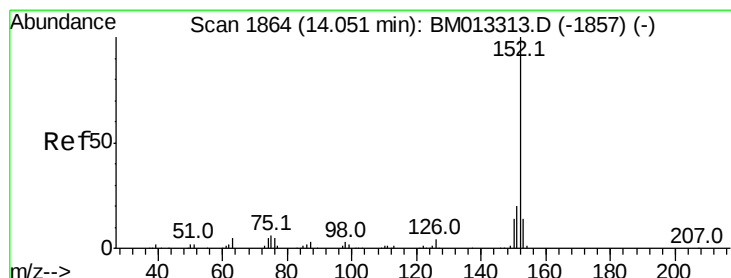
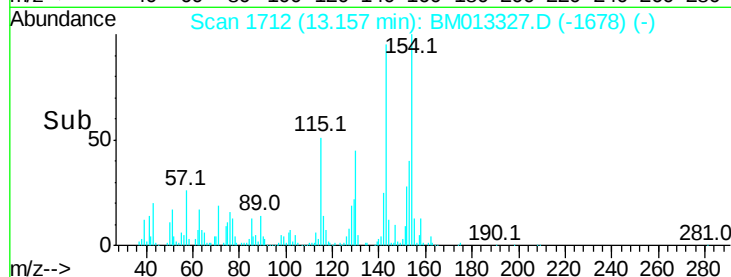
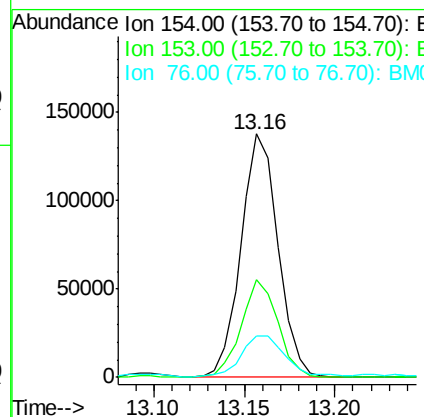
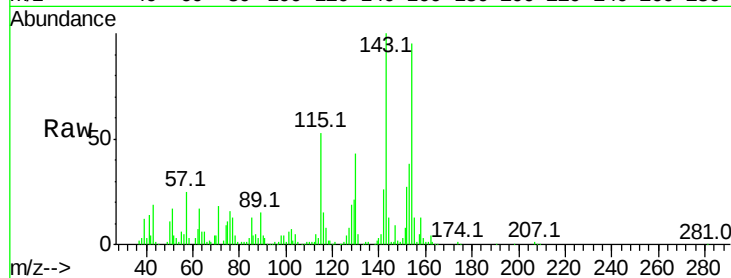
#40
1,1'-Biphenyl
Concen: 3.007 ng/ul
RT: 13.16 min Scan# 1712
Delta R.T. -0.00 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Instrument :
BNA_M
ClientSampleId :
F9A20

Tot Ion	Ratio	Resp Lower	Upper
154	100		
153	40.2	32.6	48.8
76	16.8	8.5	12.7

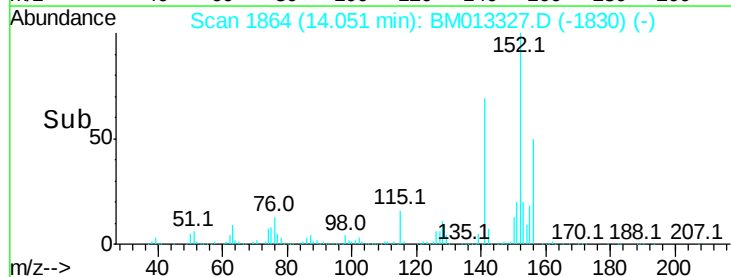
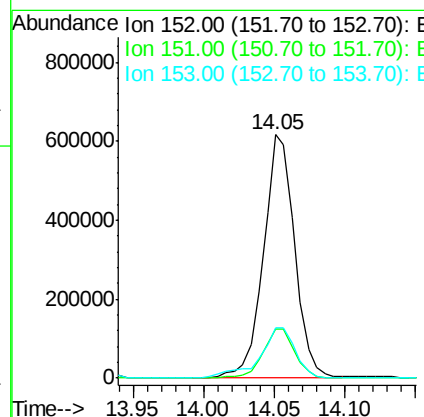
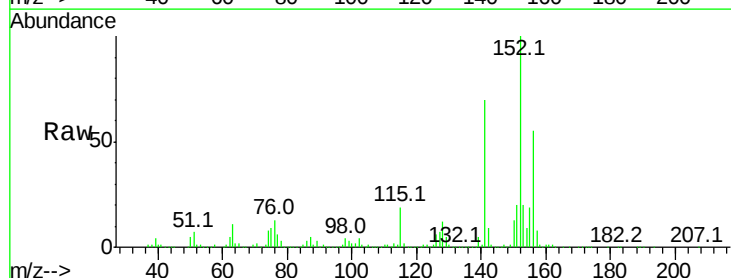
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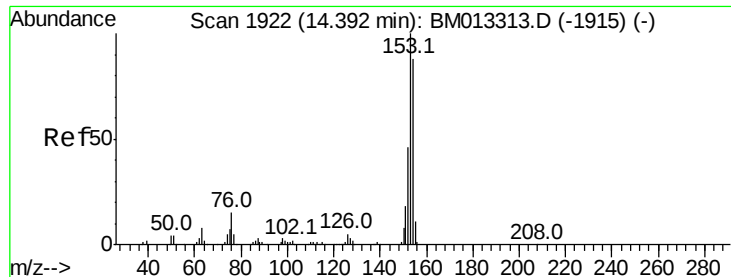
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#47
Acenaphthylene
Concen: 12.269 ng/ul
RT: 14.05 min Scan# 1864
Delta R.T. -0.00 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	20.1	16.3	24.5
153	20.4	10.2	15.4





#49

Acenaphthene

Concen: 556.907 ng/ul m

RT: 14.41 min Scan# 1925

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampleId :

F9A20

Tot Ion:153 Resp:29648392

Ion Ratio Lower Upper

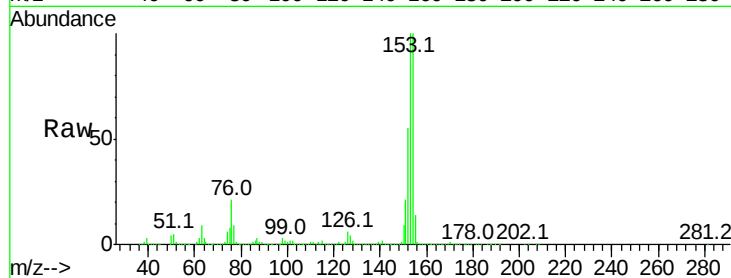
153 100

152 54.7 37.6 56.4

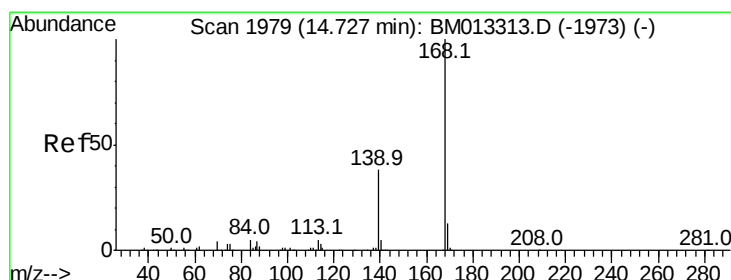
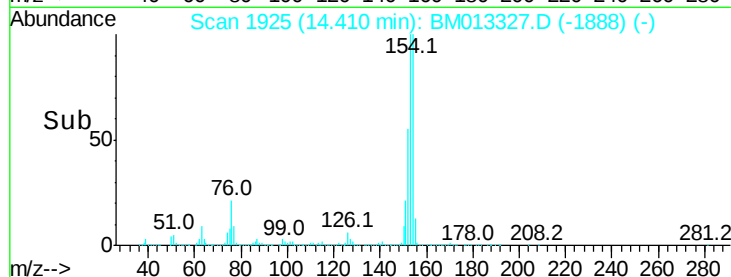
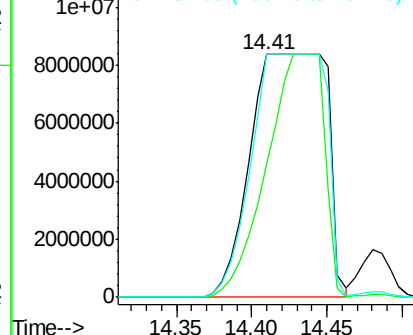
154 100.0 70.4 105.6

Manual Integrations
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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: 281.946 ng/ul m

RT: 14.74 min Scan# 1982

Delta R.T. 0.02 min

Lab File: BM013327.D

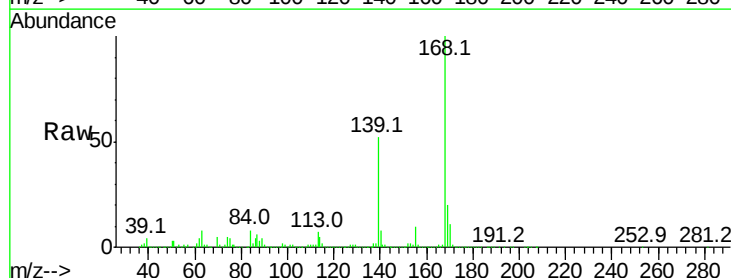
Acq: 12 Dec 2017 04:54

Tgt Ion:168 Resp:22159024

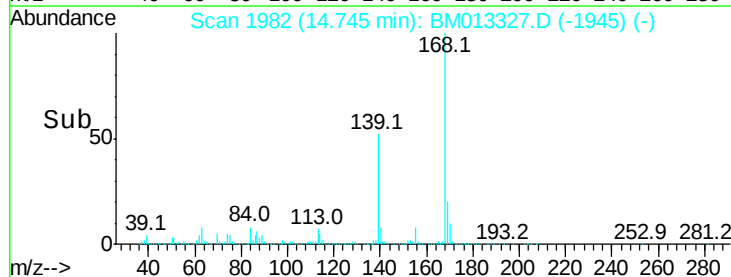
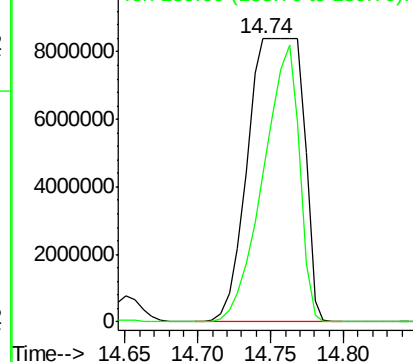
Ion Ratio Lower Upper

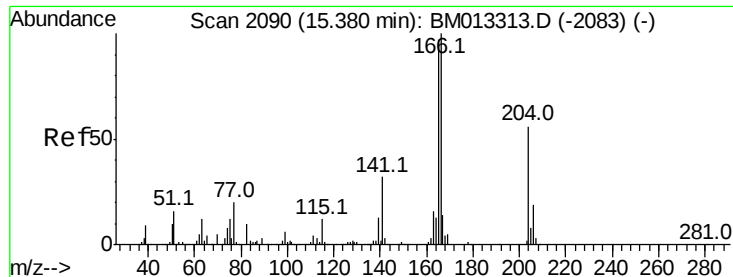
168 100

139 52.1 30.8 46.2#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





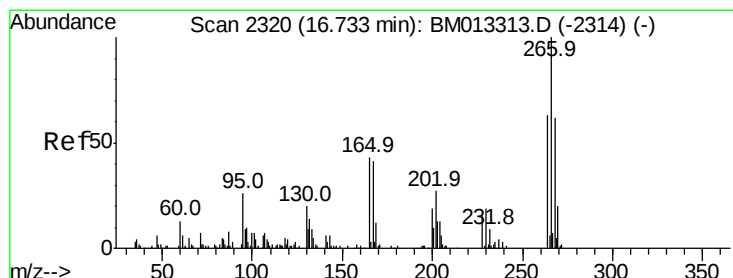
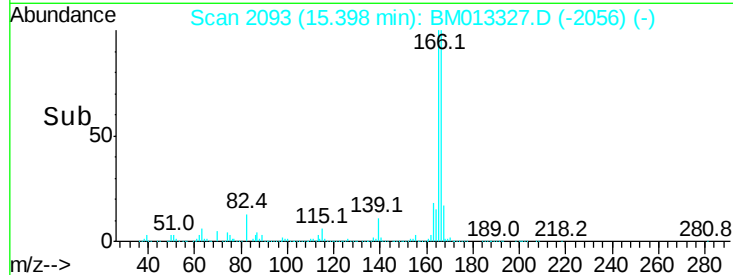
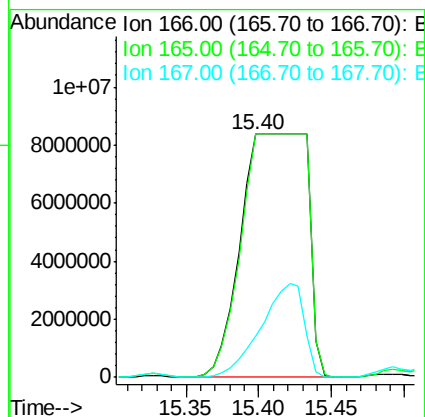
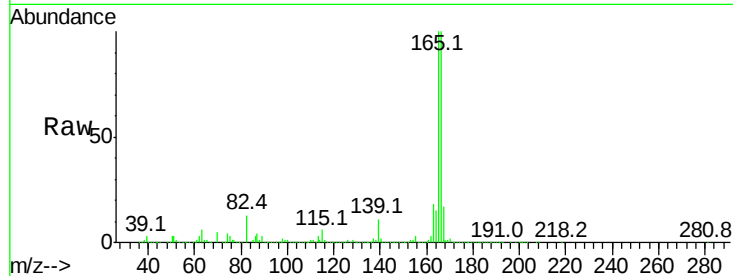
#58
 Fluorene
 Concen: 406.821 ng/ul m
 RT: 15.40 min Scan# 2093
 Delta R.T. 0.02 min
 Lab File: BM013327.D
 Acq: 12 Dec 2017 04:54

Instrument :
 BNA_M
 ClientSampled :
 F9A20

Tot Ion:166 Resp:26450531
 Ion Ratio Lower Upper
 166 100
 165 100.0 77.9 116.9
 167 17.0 10.6 16.0#

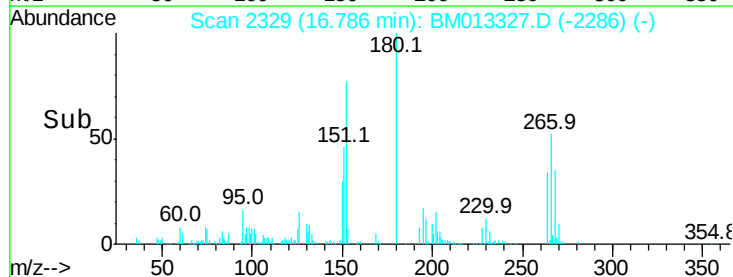
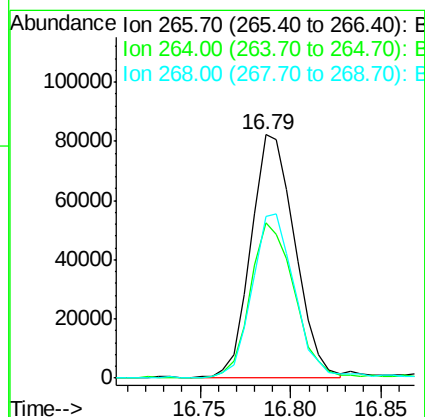
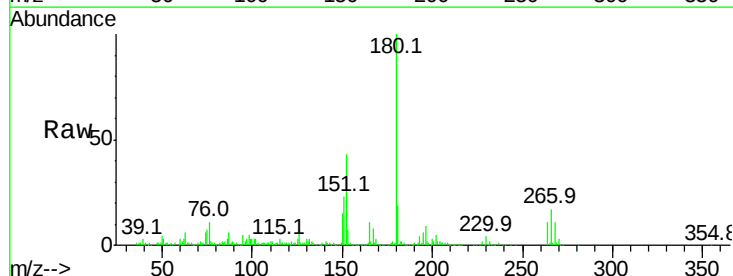
Manual Integrations
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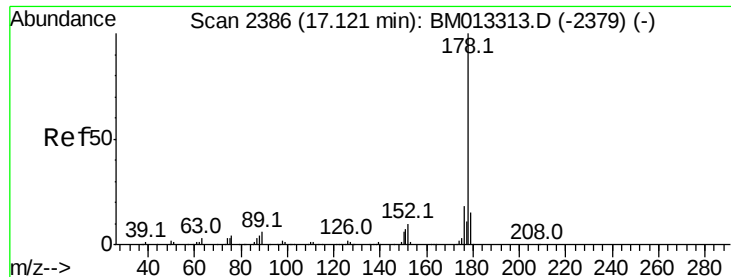
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#68
 Pentachlorophenol
 Concen: 10.242 ng/ul
 RT: 16.79 min Scan# 2329
 Delta R.T. 0.05 min
 Lab File: BM013327.D
 Acq: 12 Dec 2017 04:54

Tgt Ion:266 Resp: 138904
 Ion Ratio Lower Upper
 266 100
 264 64.0 49.3 73.9
 268 66.2 52.6 78.8





#69

Phenanthrene

Concen: 540.050 ng/ul m

RT: 17.13 min Scan# 2388

Delta R.T. 0.01 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampled :

F9A20

Tot Ion:178 Resp:55495204

Ion Ratio Lower Upper

178 100

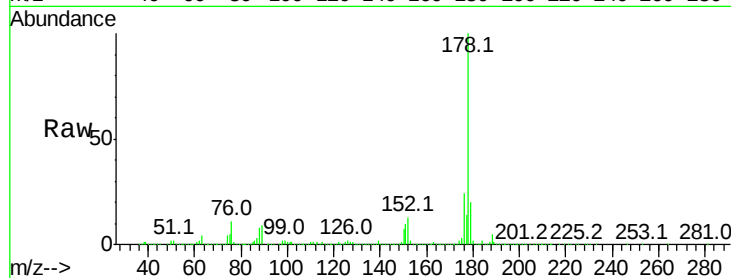
179 20.3 12.6 19.0#

176 23.6 14.9 22.3#

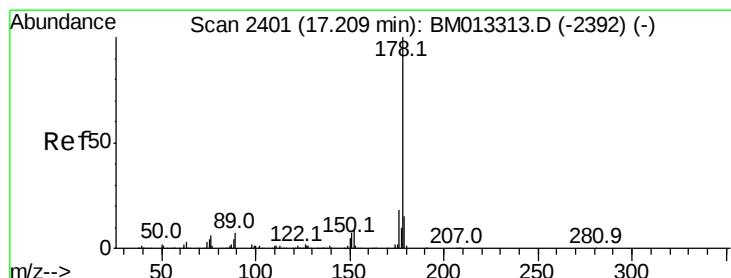
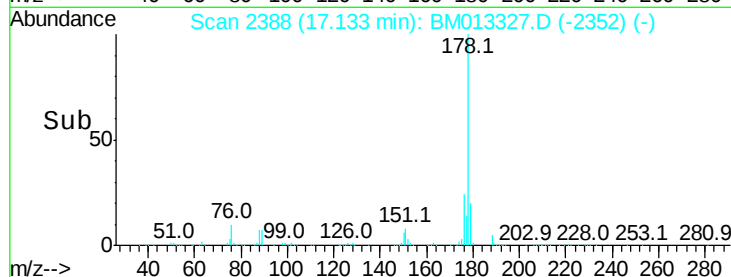
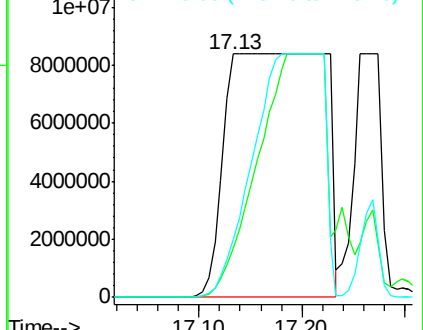
Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 146.949 ng/ul m

RT: 17.26 min Scan# 2409

Delta R.T. 0.05 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Tgt Ion:178 Resp:15435095

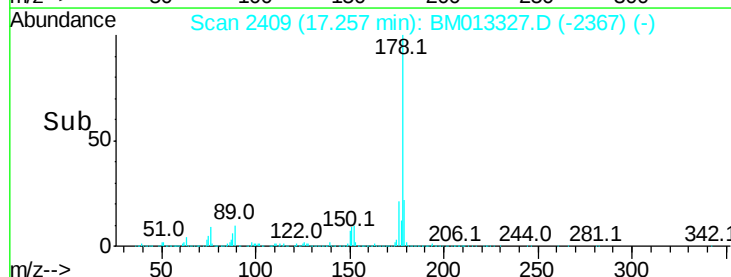
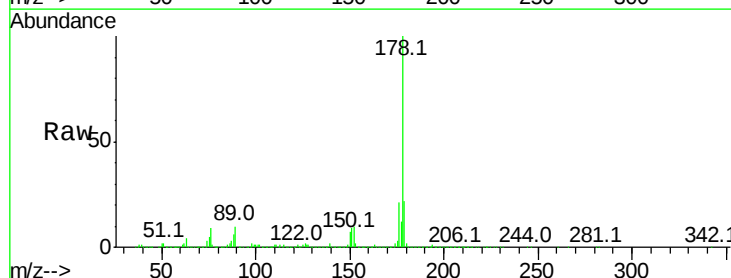
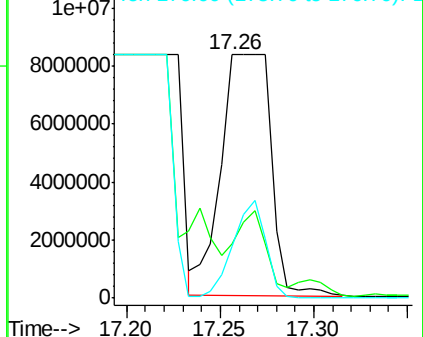
Ion Ratio Lower Upper

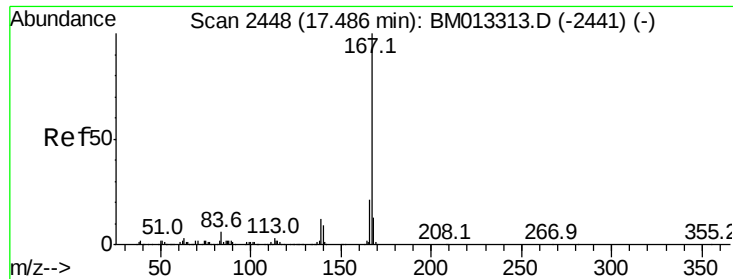
178 100

179 22.1 11.7 17.5#

176 21.3 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: 120.658 ng/ul

RT: 17.51 min Scan# 2452

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampled :

F9A20

Tot Ion:167 Resp:10901064

Ion Ratio Lower Upper

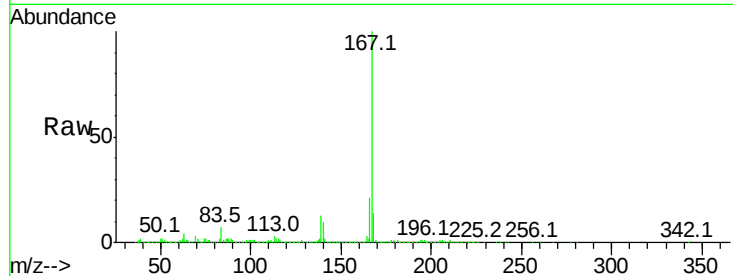
167 100

166 21.2 17.1 25.7

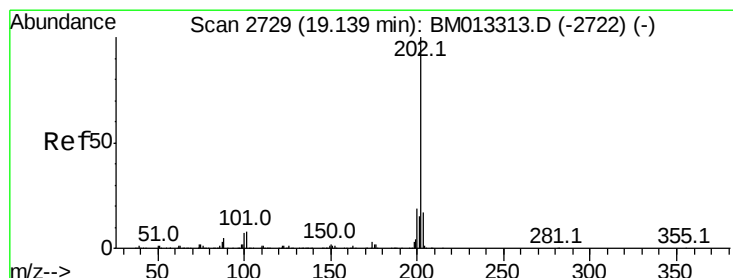
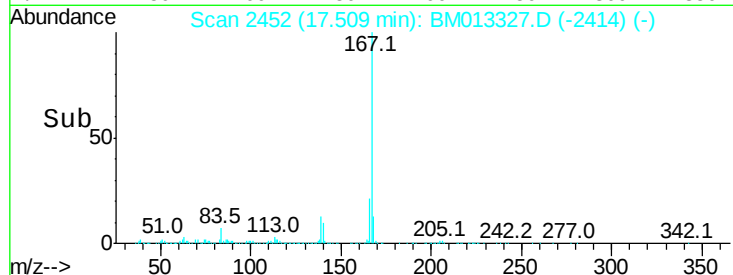
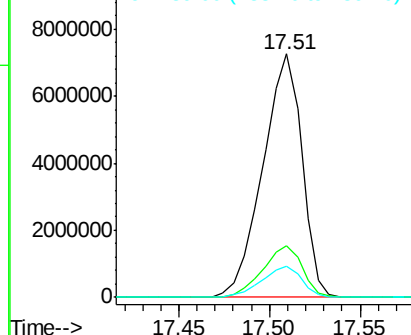
139 13.0 10.0 15.0

Manual Integrations
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Abundance Ion 167.00 (166.70 to 167.70): E
1e+07
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 326.957 ng/ul m

RT: 19.16 min Scan# 2732

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

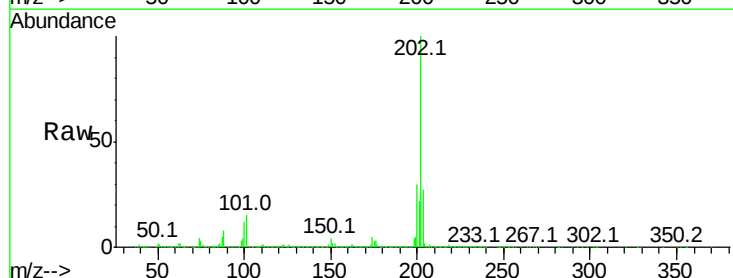
Tgt Ion:202 Resp:41173272

Ion Ratio Lower Upper

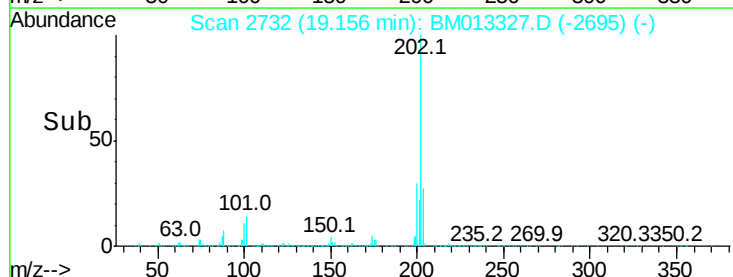
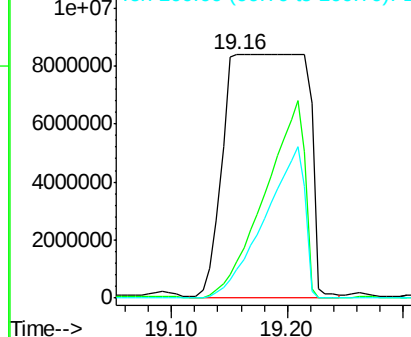
202 100

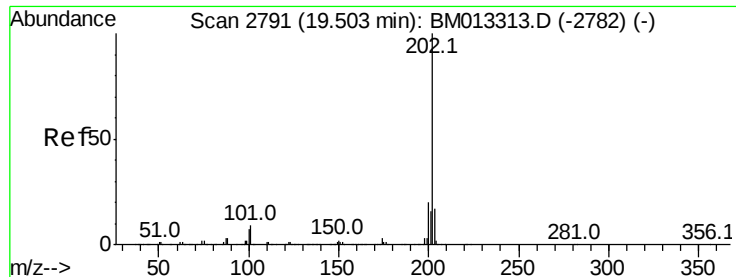
101 14.8 4.6 7.0#

100 11.5 3.4 5.2#



Abundance Ion 202.00 (201.70 to 202.70): E
1e+07
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





#77

Pvrene

Concen: 347.301 ng/ul m

RT: 19.52 min Scan# 2794

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampleId :

F9A20

Tot Ion:202 Resp:35139603

Ion Ratio Lower Upper

202 100

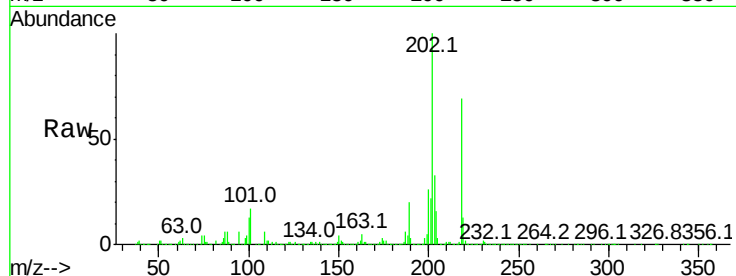
101 16.8 5.1 7.7#

100 12.6 4.9 7.3#

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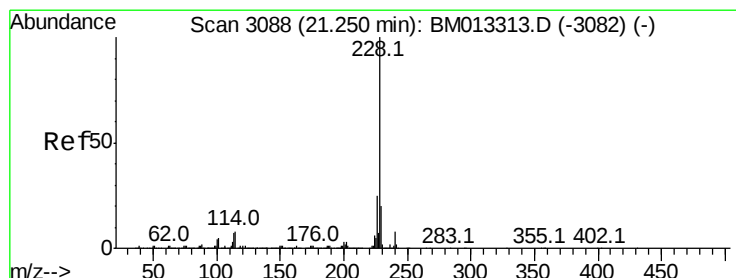
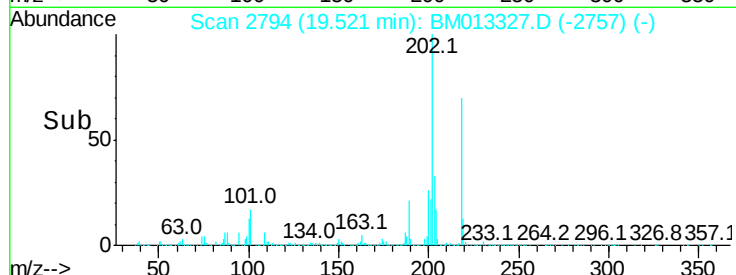
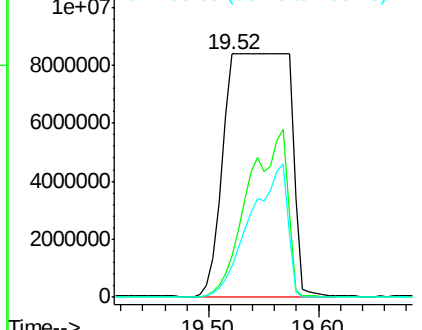
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#80

Benzo(a)anthracene

Concen: 151.471 ng/ul

RT: 21.27 min Scan# 3091

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Tgt Ion:228 Resp:16005448

Ion Ratio Lower Upper

228 100

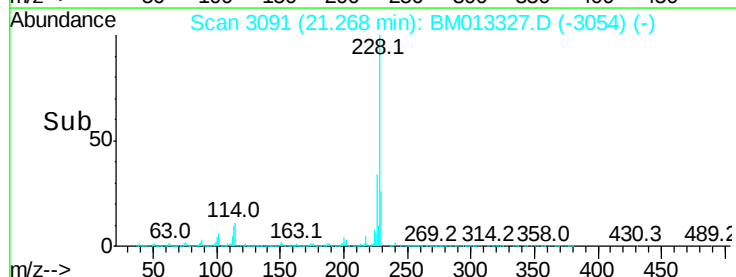
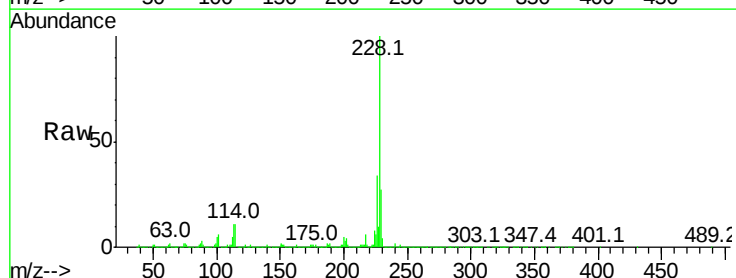
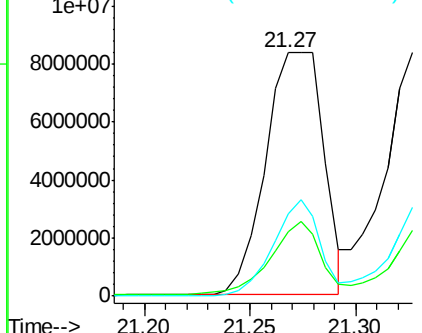
229 26.5 15.4 23.0#

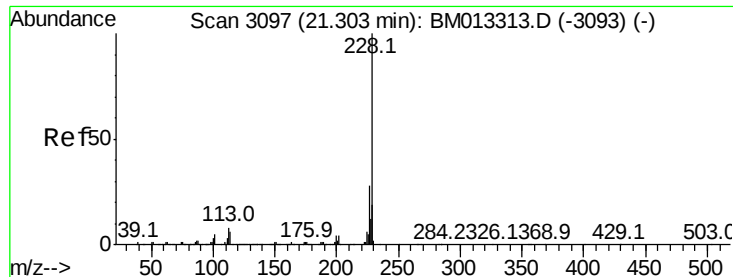
226 33.9 21.4 32.0#

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: 140.681 ng/ul

RT: 21.33 min Scan# 3101

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampled :

F9A20

Tot Ion:228 Resp:13791293

Ion Ratio Lower Upper

228 100

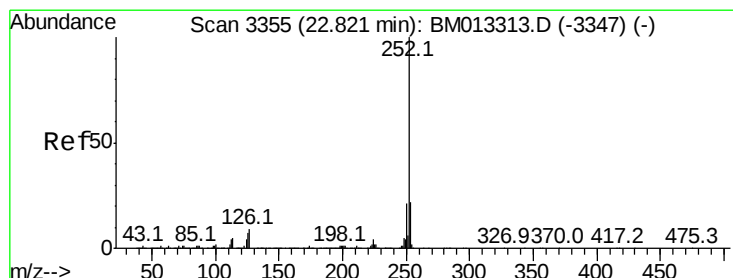
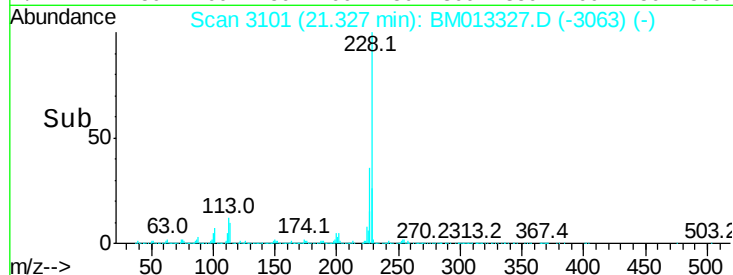
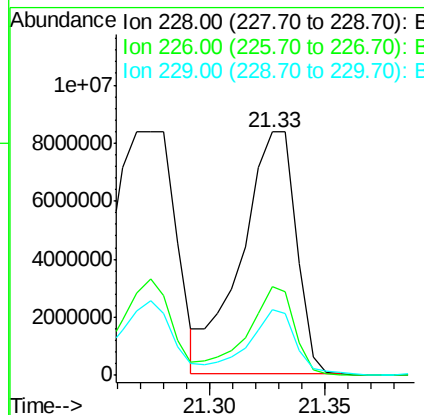
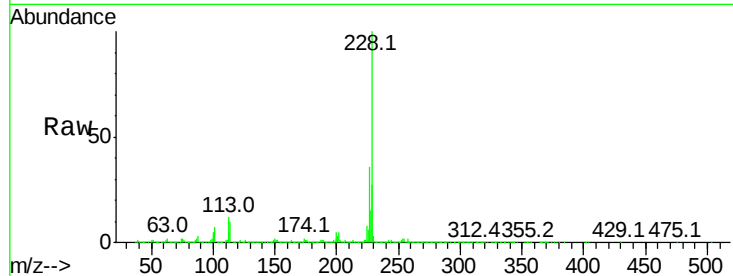
226 36.4 23.4 35.2#

229 26.7 15.5 23.3#

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#85

Benzo(b)fluoranthene

Concen: 81.511 ng/ul

RT: 22.84 min Scan# 3359

Delta R.T. 0.02 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

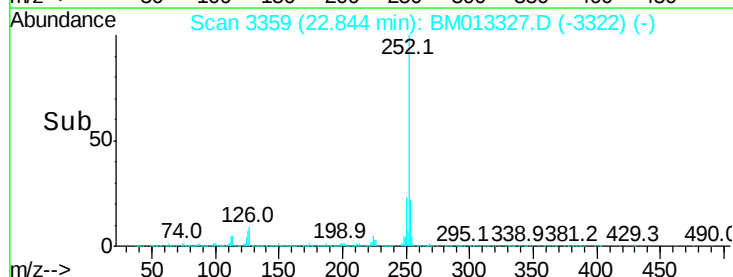
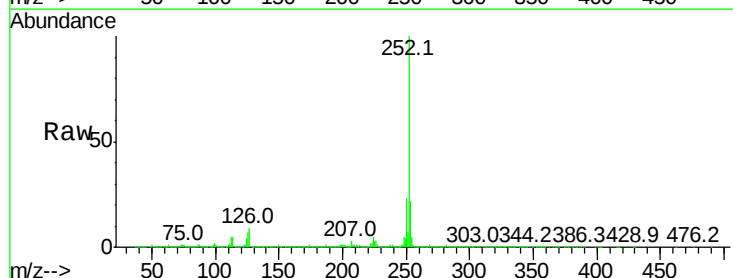
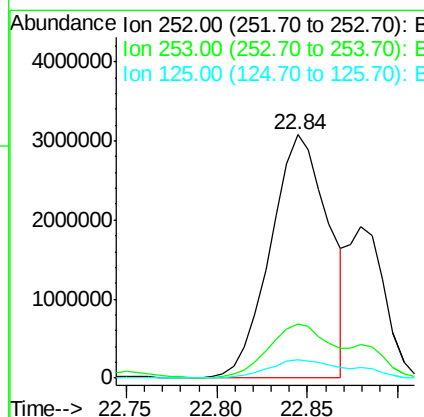
Tgt Ion:252 Resp: 6842407

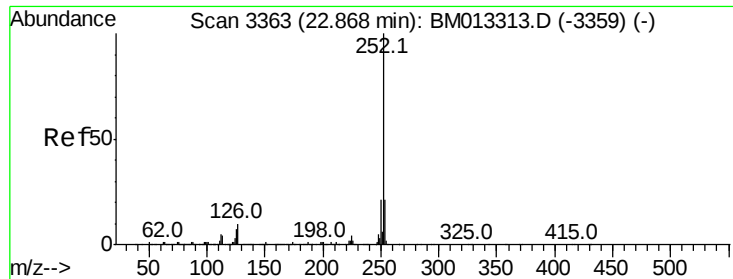
Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

125 7.4 3.6 5.4#





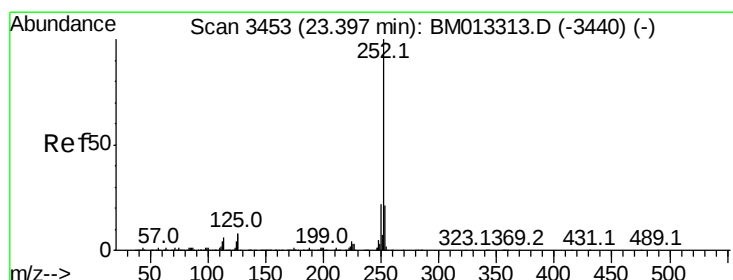
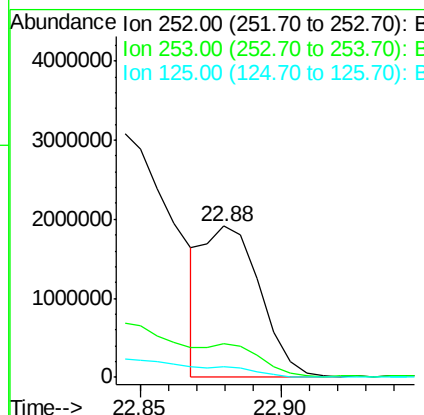
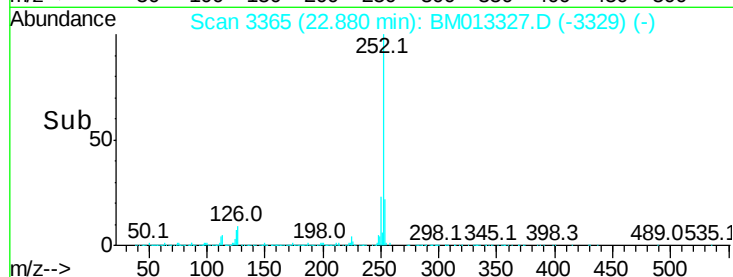
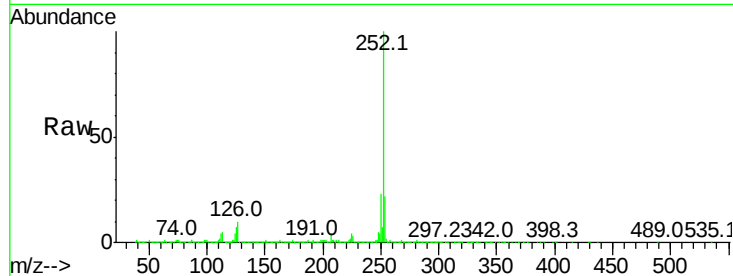
#86
Benzo(k)fluoranthene
Concen: 32.984 ng/u1
RT: 22.88 min Scan# 3365
Delta R.T. 0.01 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Instrument :
BNA_M
ClientSampleId :
F9A20

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	7.0	3.4	5.2

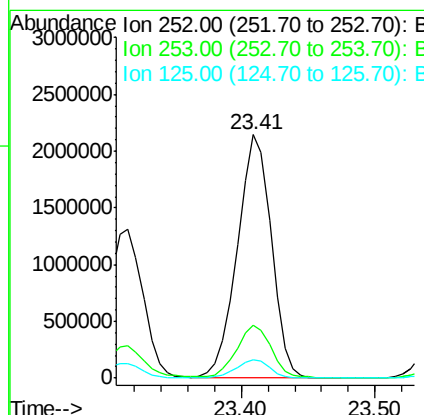
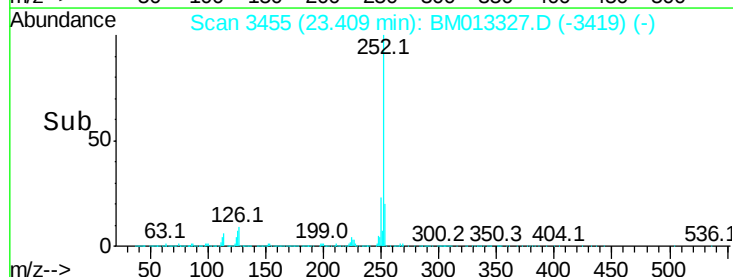
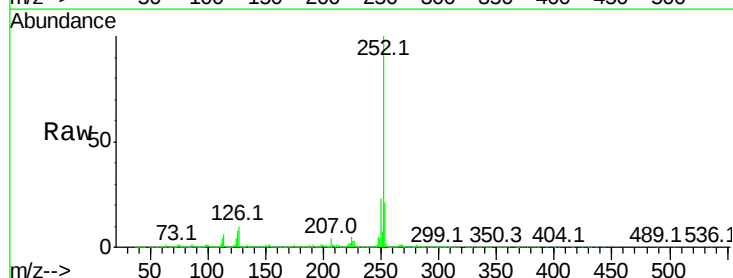
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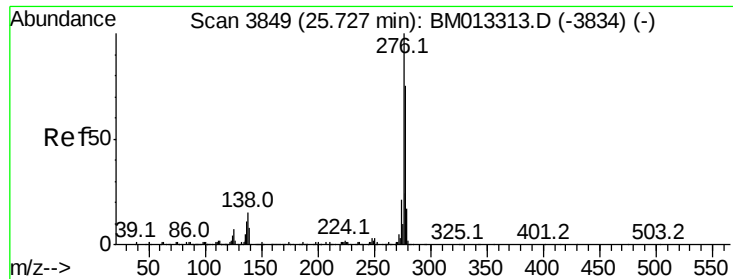
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#88
Benzo(a)pyrene
Concen: 49.957 ng/u1
RT: 23.41 min Scan# 3455
Delta R.T. 0.01 min
Lab File: BM013327.D
Acq: 12 Dec 2017 04:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.2	27.2
125	7.6	4.0	6.0





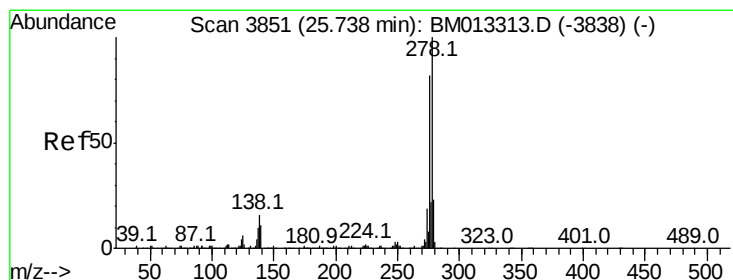
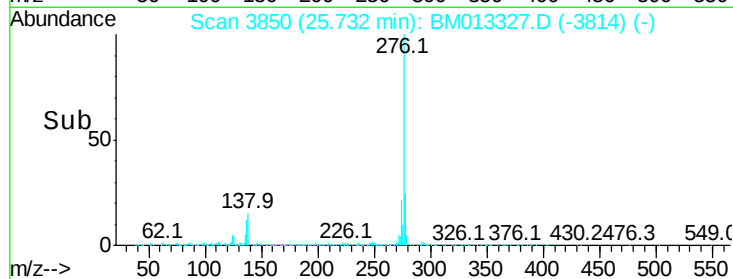
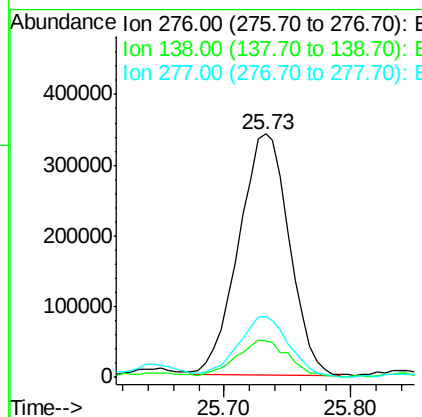
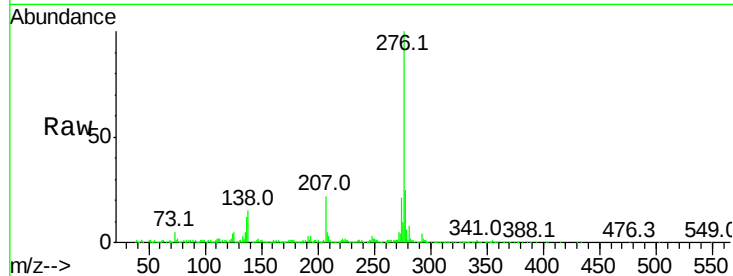
#89
 Indeno(1,2,3-cd)pyrene
 Concen: 12.641 ng/ul
 RT: 25.73 min Scan# 3850
 Delta R.T. 0.01 min
 Lab File: BM013327.D
 Acq: 12 Dec 2017 04:54

Instrument :
 BNA_M
 ClientSampleId :
 F9A20

Tot Ion	Ratio	Lower	Upper
276	100		
138	14.7	9.3	13.9#
277	24.7	19.9	29.9

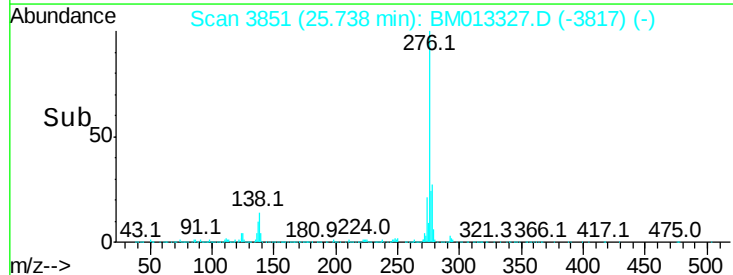
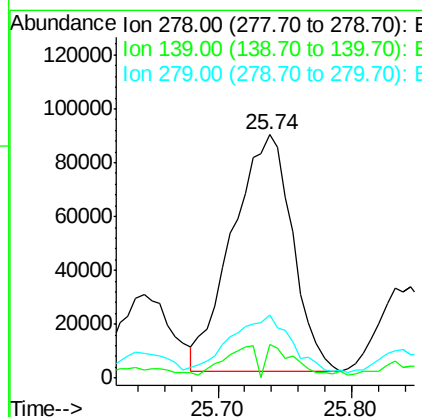
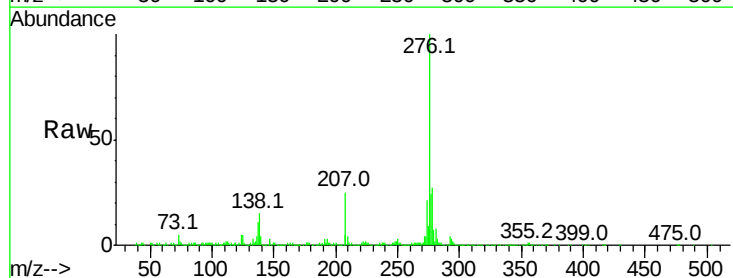
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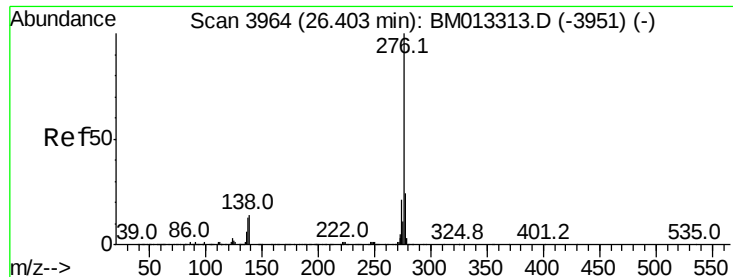
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#90
 Dibenzo(a,h)anthracene
 Concen: 4.285 ng/ul
 RT: 25.74 min Scan# 3851
 Delta R.T. -0.00 min
 Lab File: BM013327.D
 Acq: 12 Dec 2017 04:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.6	5.8	8.8#
279	25.9	18.6	27.8





#91

Benzo(a,h,i)perylene

Concen: 12.028 ng/ul

RT: 26.41 min Scan# 3966

Delta R.T. 0.01 min

Lab File: BM013327.D

Acq: 12 Dec 2017 04:54

Instrument :

BNA_M

ClientSampleId :

F9A20

Tot Ion:	276	Resp:	709871
Ion Ratio	Lower	Upper	
276	100		
138	14.6	8.5	12.7#
277	24.1	18.6	28.0

Manual Integrations
APPROVED

Sohil
12/12/2017 3:57:31 PM

