

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121417\
 Data File : BM013427.D
 Acq On : 15 Dec 2017 06:36
 Operator : SJ/JU
 Sample : I6778-14 30X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Dec 15 10:02:54 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 15 04:56:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	230786	20.00	ng/ul	0.00
18) Naphthalene-d8	10.47	136	993646	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.32	164	623372	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	1247029	20.00	ng/ul	0.01
75) Chrysene-d12	21.27	240	1180064	20.00	ng/ul	0.01
83) Perylene-d12	23.49	264	923896	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	199	0.04	ng/uL	0.00
5) Phenol-d5	6.86	99	13384	0.67	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.03	67	10938	0.96	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	13977	0.90	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	14220	0.83	ng/ul	0.00
19) Nitrobenzene-d5	8.85	128	16446	2.09	ng/ul	0.01
22) 2-Nitrophenol-d4	9.55	143	7230	0.86	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.09	165	13774	0.79	ng/ul	0.01
29) 4-Chloroaniline-d4	10.61	131	34888	2.18	ng/ul	0.01
43) Dimethylphthalate-d6	13.74	166	64308	1.16	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	53583	0.78	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	9356	0.97	ng/ul	0.00
57) Fluorene-d10	15.33	176	60507	1.27	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.46	200	344	0.04	ng/ul	0.01
70) Anthracene-d10	17.20	188	61105	0.98	ng/ul	0.04
76) Pyrene-d10	19.47	212	39750	0.68	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.35	264	48227	1.02	ng/ul	0.00

Target Compounds

					Ovalue	
4) Benzaldehyde	6.83	77	16279	1.648	ng/ul#	1
8) Bis(2-Chloroethyl)ether	7.12	93	29080	1.927	ng/ul#	29
17) Hexachloroethane	8.77	117	65604	9.849	ng/ul#	1
30) 4-Chloroaniline	10.57	127	16861124	1090.361	ng/ul#	18
40) 1,1'-Biphenyl	13.16	154	6264010	118.898	ng/ul	99
42) 2-Nitroaniline	13.35	65	42804	3.535	ng/ul#	31
47) Acenaphthylene	14.05	152	2510055	39.623	ng/ul#	94
49) Acenaphthene	14.32	153	392575	9.097	ng/ul#	1
53) Dibenzofuran	14.64	168	477061	7.488	ng/ul#	56
54) 2,4-Dinitrotoluene	14.69	165	59626	3.788	ng/ul#	31
58) Fluorene	15.32	166	336603	6.387	ng/ul#	54
60) 4-Nitroaniline	15.40	138	338649	29.676	ng/ul#	13
64) N-Nitrosodiphenylamine	15.59	169	276060	7.515	ng/ul#	1
68) Pentachlorophenol	16.76	266	36913	3.948	ng/ul	95
69) Phenanthrene	17.23	178	13799864	194.787	ng/ul#	92
71) Anthracene	17.23	178	13794629	190.490	ng/ul#	90
72) Carbazole	17.49	167	7469841	119.924	ng/ul	99
74) Fluoranthene	19.24	202	98210	1.131	ng/ul#	65
77) Pyrene	19.58	202	138215	1.928	ng/ul#	54
80) Benzo(a)anthracene	21.26	228	10651154	142.258	ng/ul	96
82) Chrysene	21.32	228	8288444	119.323	ng/ul	97
85) Benzo(b)fluoranthene	22.83	252	5495704	88.240	ng/ul#	98
86) Benzo(k)fluoranthene	22.83	252	5495704	93.766	ng/ul#	96

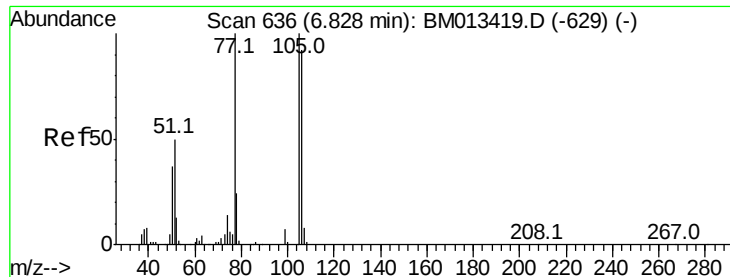
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013427.D
Acq On : 15 Dec 2017 06:36
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Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 15 04:56:09 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.40	252	3616706	64.645	ng/ul#	98
89) Indeno(1,2,3-cd)pyrene	25.72	276	1554554	28.004	ng/ul#	97
90) Dibenzo(a,h)anthracene	25.72	278	443197	9.376	ng/ul#	87
91) Benzo(g,h,i)perylene	26.40	276	1284983	29.346	ng/ul#	95

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



#4

Benzaldehyde

Concen: 1.648 ng/ul

RT: 6.83 min Scan# 637

Delta R.T. 0.00 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampled :

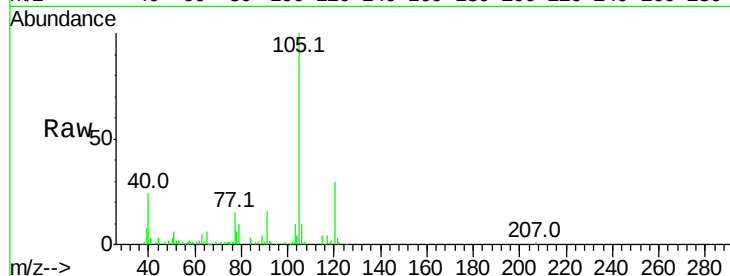
Tot Ion: 77 Resp: 16279

Ion Ratio Lower Upper

77 100

105 681.8 66.1 99.1#

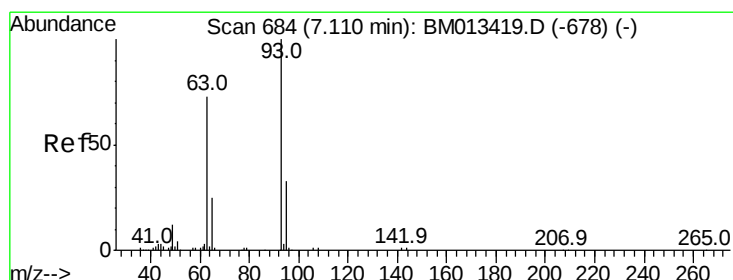
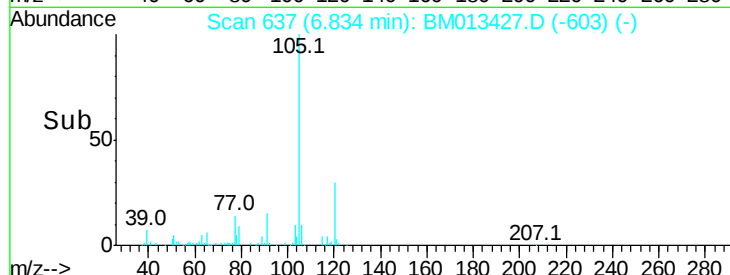
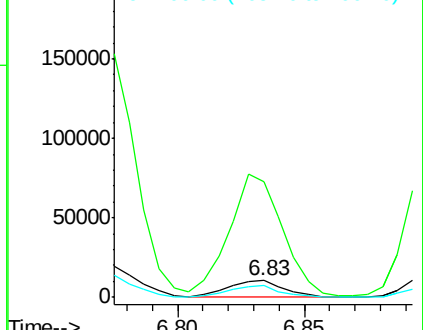
106 70.0 67.8 101.6



Abundance Ion 77.00 (76.70 to 77.70): BM013427.D (-603) (-)

Ion 105.00 (104.70 to 105.70): BM013427.D (-603) (-)

Ion 106.00 (105.70 to 106.70): BM013427.D (-603) (-)



#8

Bis(2-Chloroethyl)ether

Concen: 1.927 ng/ul

RT: 7.12 min Scan# 685

Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

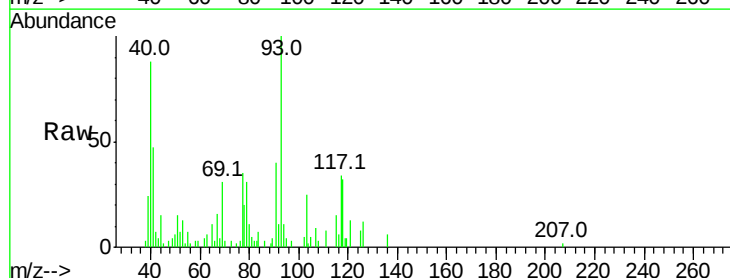
Tgt Ion: 93 Resp: 29080

Ion Ratio Lower Upper

93 100

63 5.7 57.3 85.9#

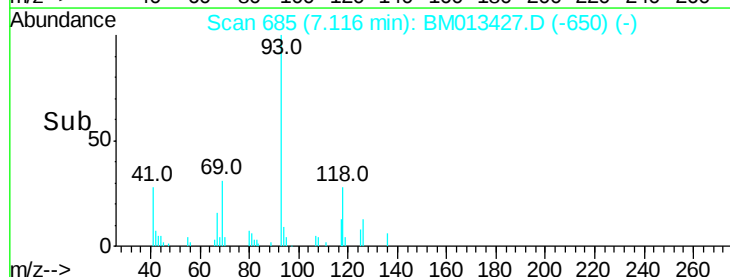
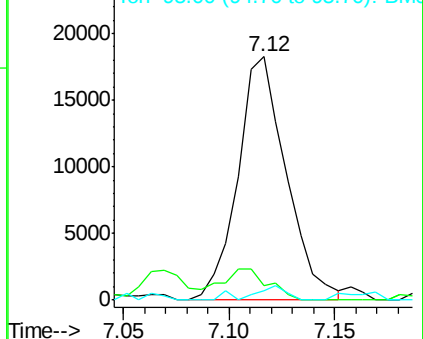
95 3.8 26.6 39.8#

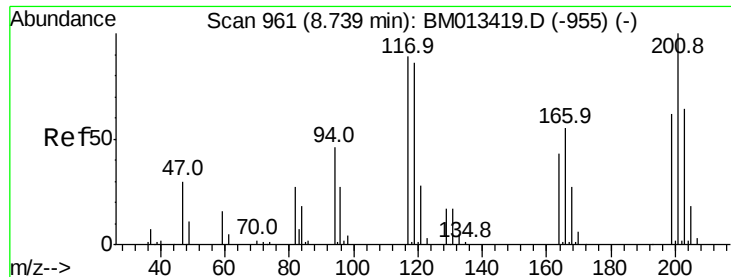


Abundance Ion 93.00 (92.70 to 93.70): BM013427.D (-650) (-)

Ion 63.00 (62.70 to 63.70): BM013427.D (-650) (-)

Ion 95.00 (94.70 to 95.70): BM013427.D (-650) (-)

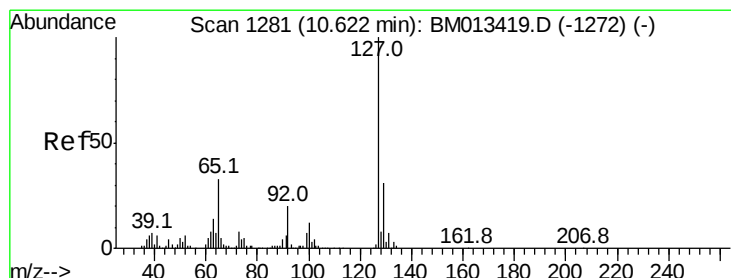
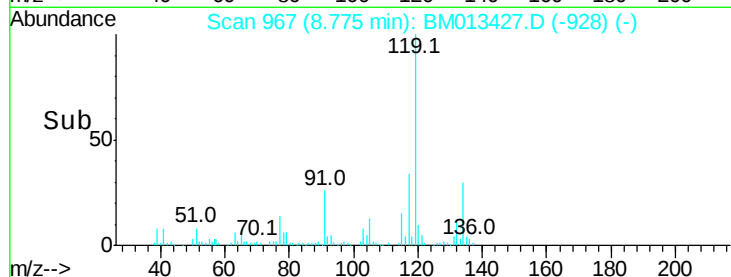
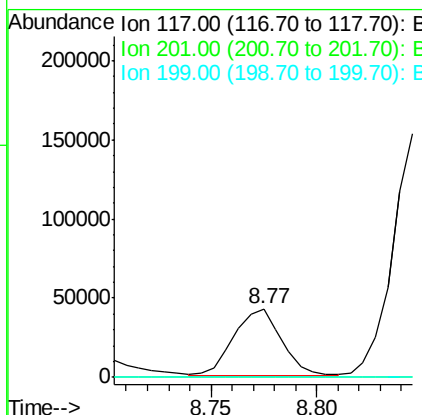
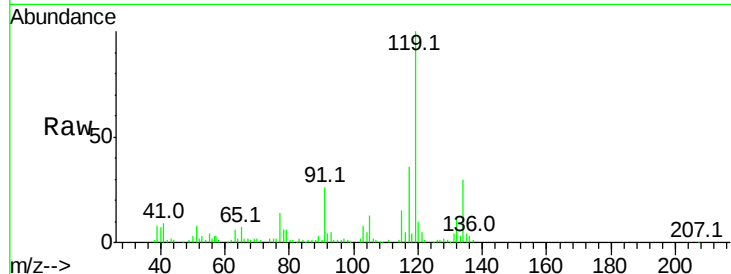




#17
Hexachloroethane
Concen: 9.849 ng/ul
RT: 8.77 min Scan# 967
Delta R.T. 0.03 min
Lab File: BM013427.D
Acq: 15 Dec 2017 06:36

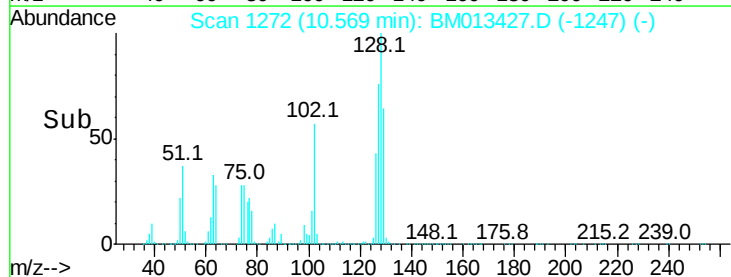
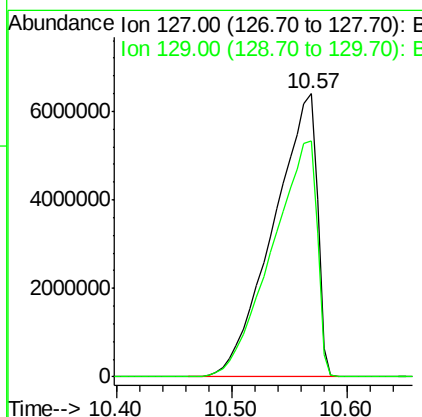
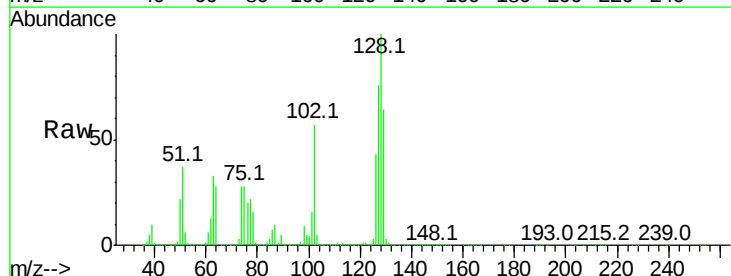
Instrument :
BNA_M
ClientSampleId :

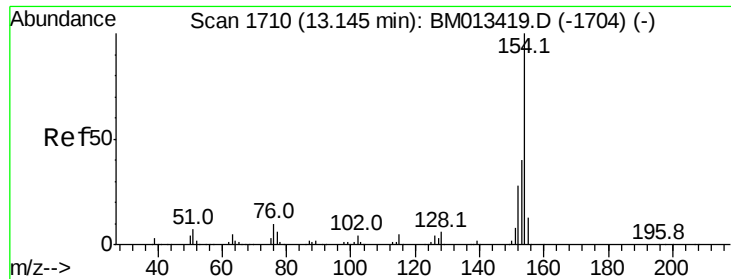
Tot Ion:117 Resp: 65604
Ion Ratio Lower Upper
117 100
201 0.0 111.6 167.4#
199 0.0 67.8 101.6#



#30
4-Chloroaniline
Concen: 1090.361 ng/ul
RT: 10.57 min Scan# 1272
Delta R.T. -0.05 min
Lab File: BM013427.D
Acq: 15 Dec 2017 06:36

Tgt Ion:127 Resp:16861124
Ion Ratio Lower Upper
127 100
129 83.5 28.4 42.6#



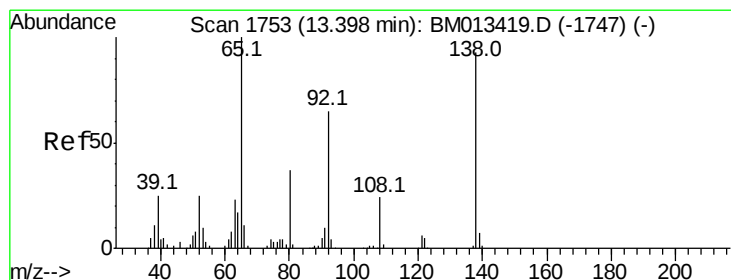
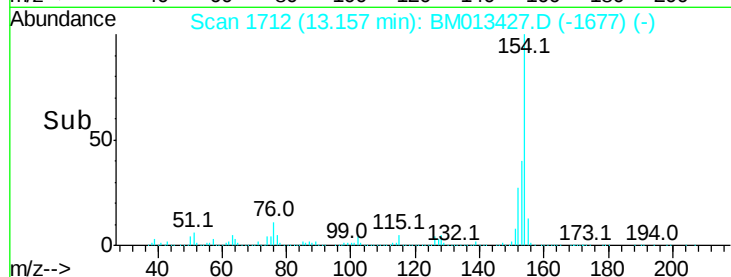
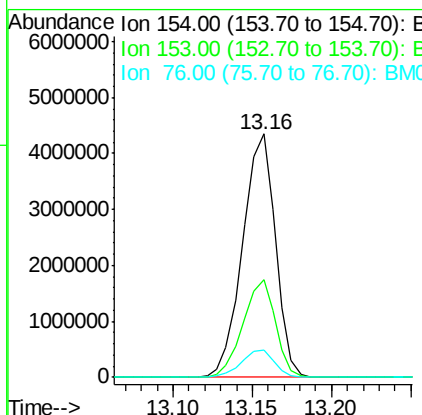
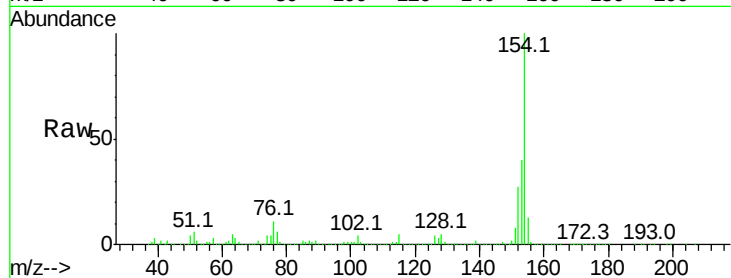


#40
 1,1'-Biphenyl
 Concen: 118.898 ng/ul
 RT: 13.16 min Scan# 1712
 Delta R.T. 0.01 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Instrument :
 BNA_M
 ClientSampled :

Tot Ion:154 Resp: 6264010

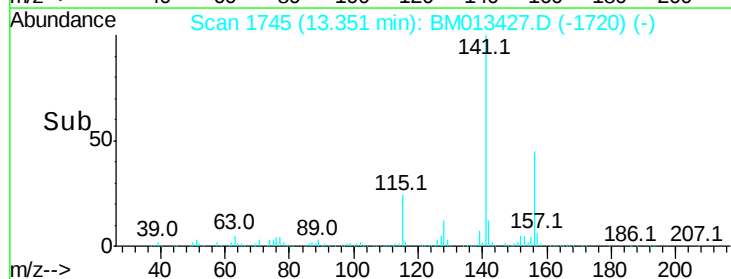
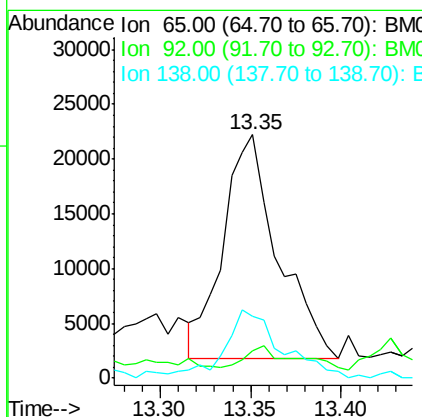
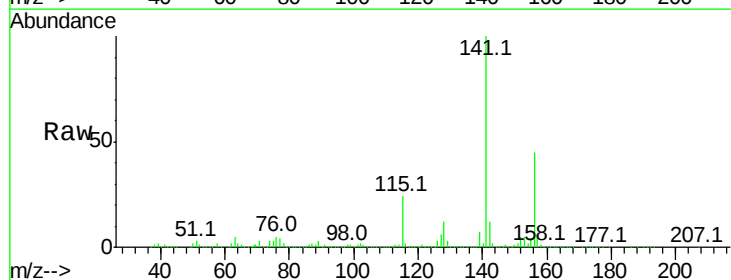
Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.6	48.8
76	11.3	8.5	12.7

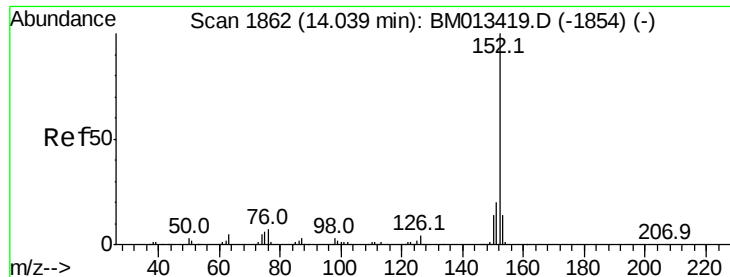


#42
 2-Nitroaniline
 Concen: 3.535 ng/ul
 RT: 13.35 min Scan# 1745
 Delta R.T. -0.05 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Tgt Ion: 65 Resp: 42804

Ion	Ratio	Lower	Upper
65	100		
92	11.4	51.8	77.6#
138	25.4	74.2	111.4#





#47

Acenaphthylene

Concen: 39.623 ng/ul

RT: 14.05 min Scan# 1863

Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampleId :

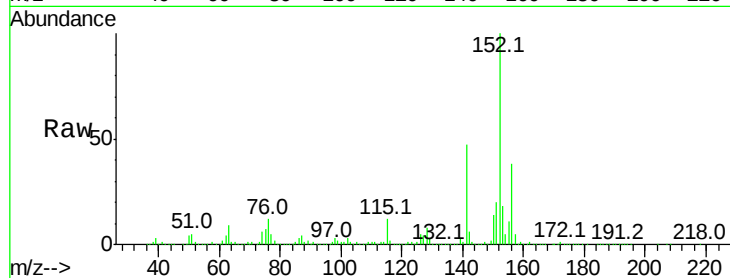
Tot Ion:152 Resp: 2510055

Ion Ratio Lower Upper

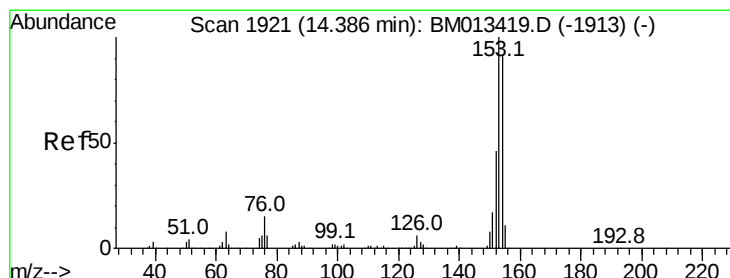
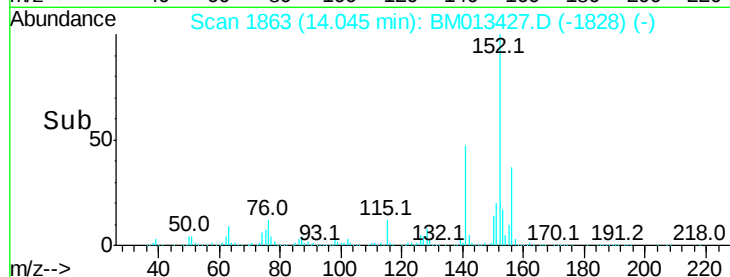
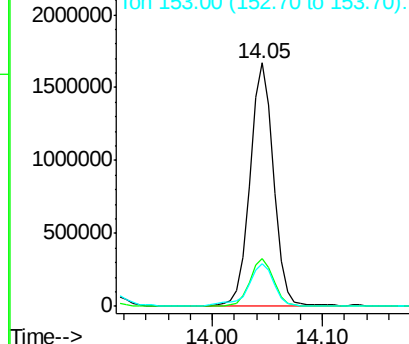
152 100

151 19.7 16.3 24.5

153 17.5 10.2 15.4#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 9.097 ng/ul

RT: 14.32 min Scan# 1909

Delta R.T. -0.07 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

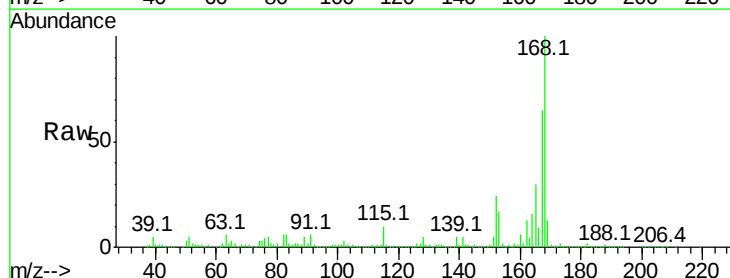
Tgt Ion:153 Resp: 392575

Ion Ratio Lower Upper

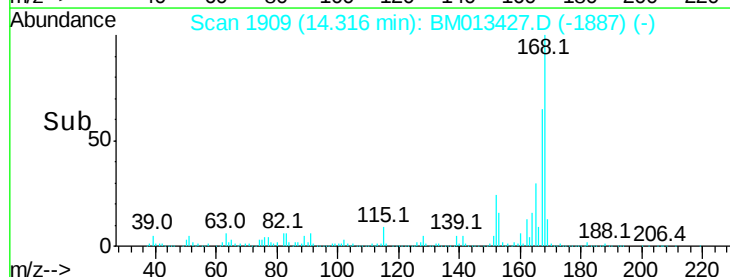
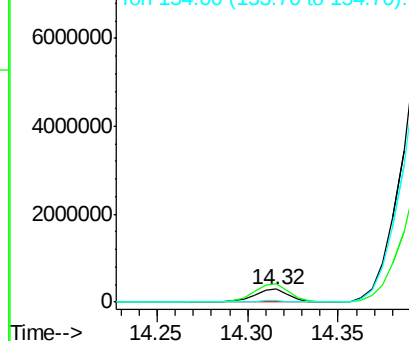
153 100

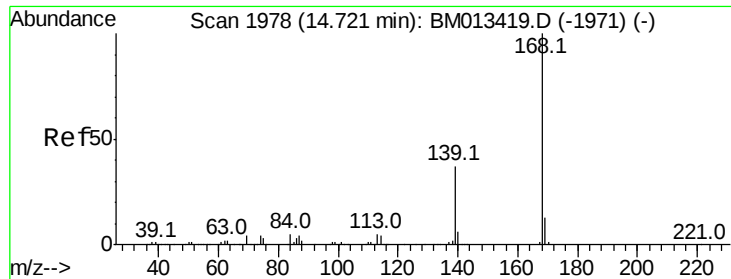
152 142.7 37.6 56.4#

154 12.1 70.4 105.6#



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

Dibenzenofuran

Concen: 7.488 ng/ul

RT: 14.64 min Scan# 1964

Delta R.T. -0.08 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

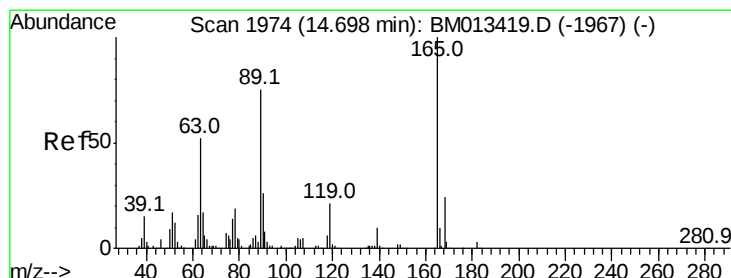
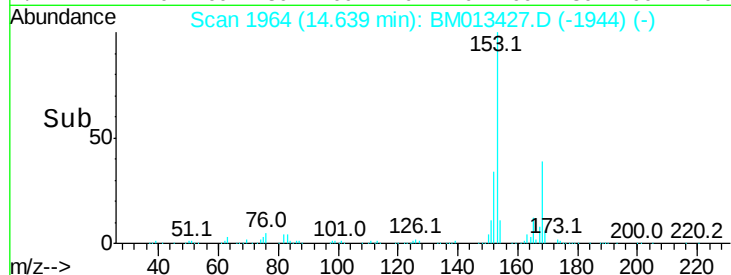
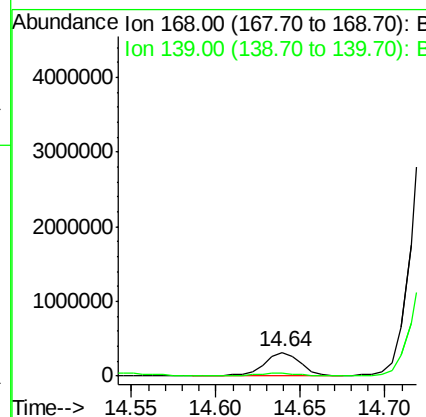
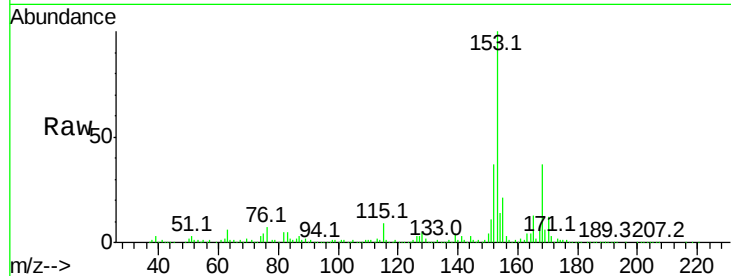
ClientSampleId :

Tot Ion:168 Resp: 477061

Ion Ratio Lower Upper

168 100

139 11.8 30.8 46.2#



#54

2,4-Dinitrotoluene

Concen: 3.788 ng/ul

RT: 14.69 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

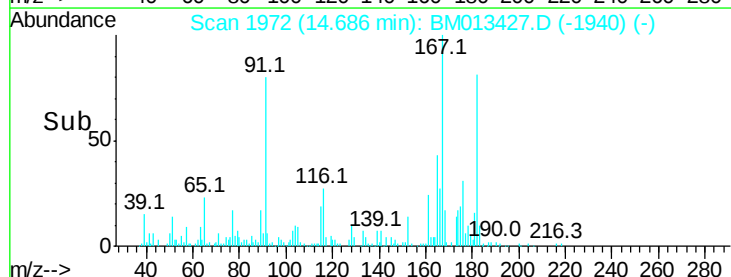
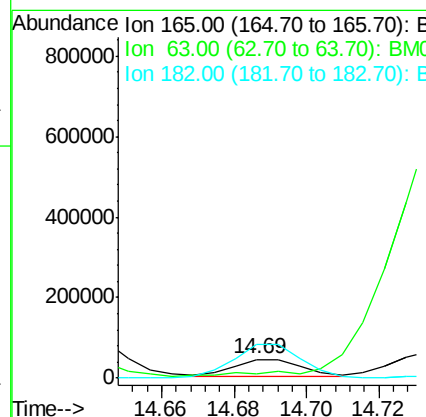
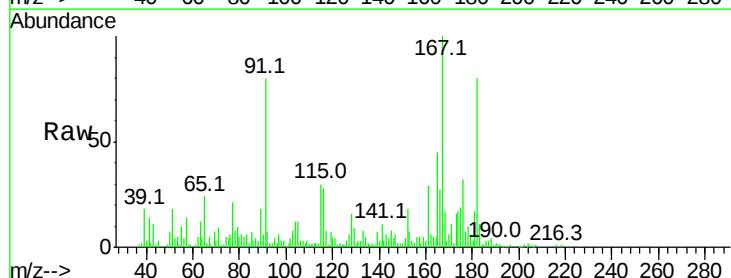
Tgt Ion:165 Resp: 59626

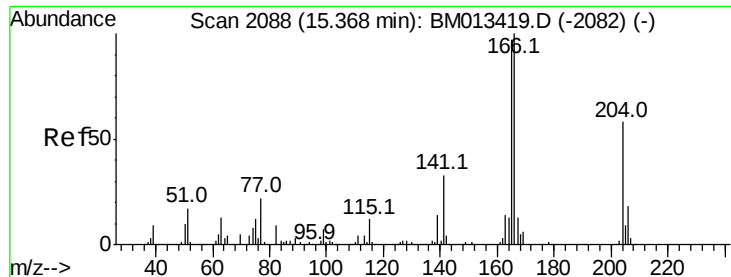
Ion Ratio Lower Upper

165 100

63 25.7 45.8 68.8#

182 178.8 2.6 4.0#

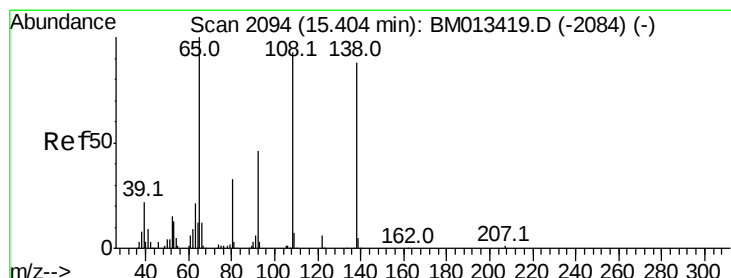
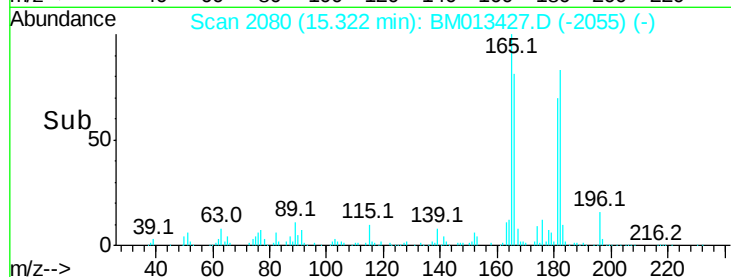
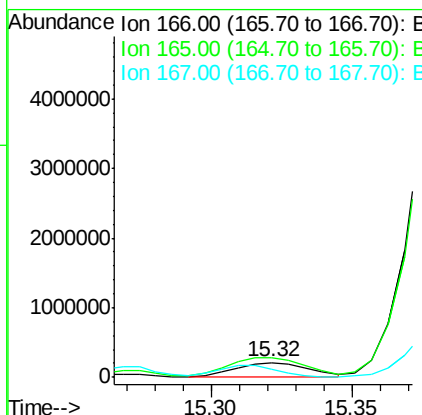
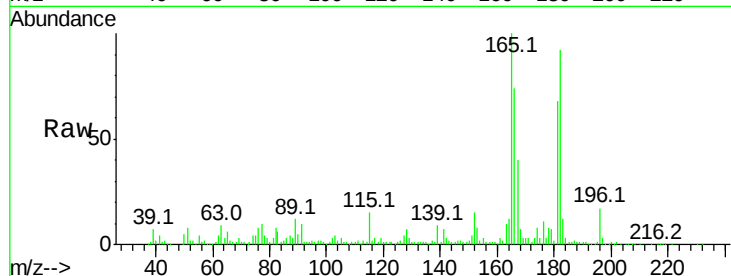




#58
 Fluorene
 Concen: 6.387 ng/ul
 RT: 15.32 min Scan# 2080
 Delta R.T. -0.05 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

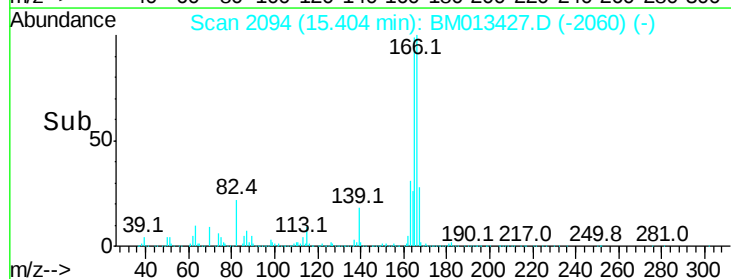
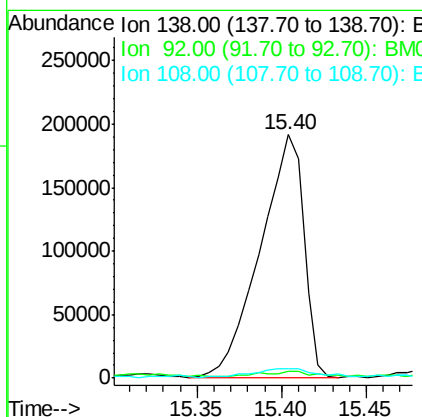
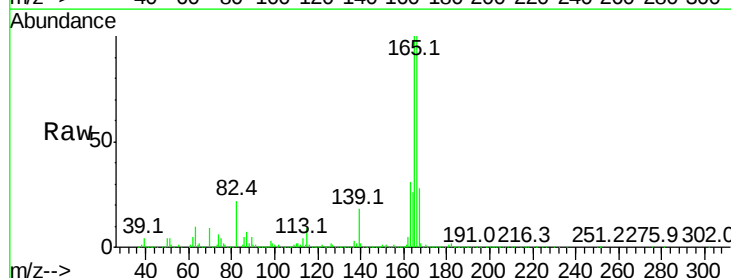
Instrument :
 BNA_M
 ClientSampleId :

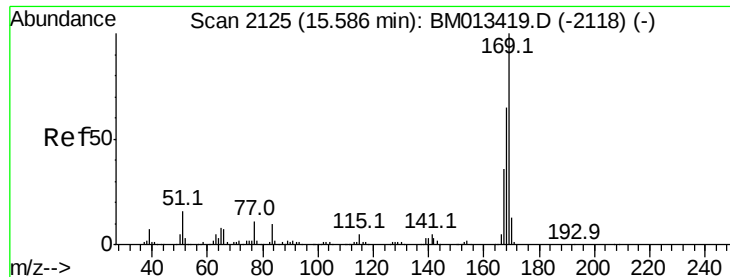
Tot Ion:166 Resp: 336603
 Ion Ratio Lower Upper
 166 100
 165 135.5 77.9 116.9#
 167 54.3 10.6 16.0#



#60
 4-Nitroaniline
 Concen: 29.676 ng/ul
 RT: 15.40 min Scan# 2094
 Delta R.T. 0.00 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Tgt Ion:138 Resp: 338649
 Ion Ratio Lower Upper
 138 100
 92 2.8 40.0 60.0#
 108 3.9 80.0 120.0#



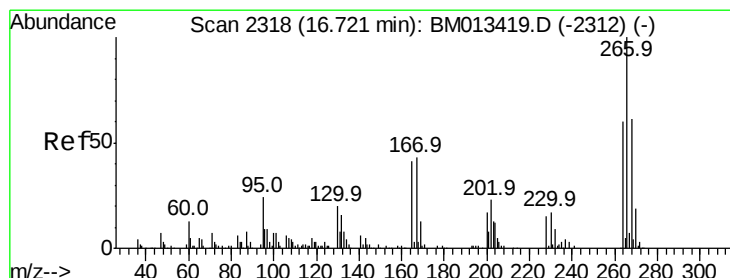
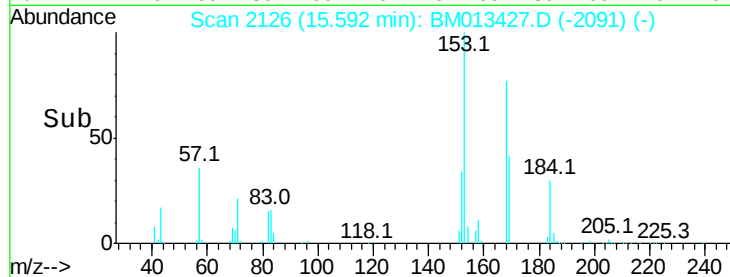
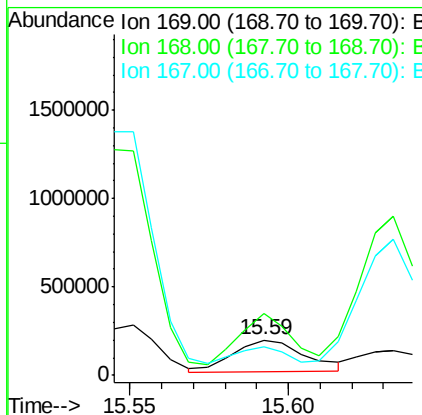
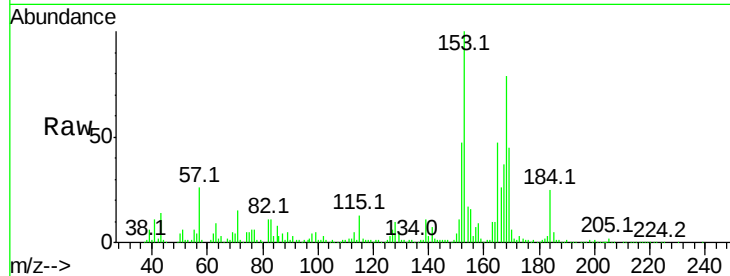


#64

N-Nitrosodiphenylamine
 Concen: 7.515 ng/ul
 RT: 15.59 min Scan# 2126
 Delta R.T. 0.01 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Instrument :
 BNA_M
 ClientSampleId :

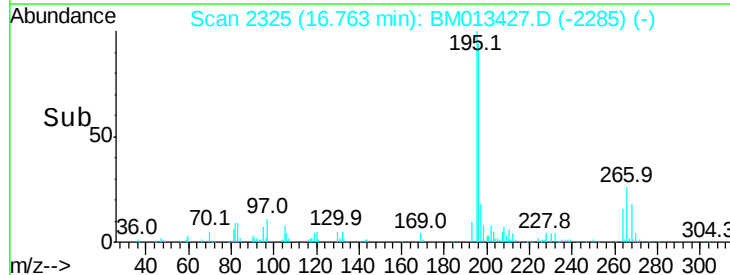
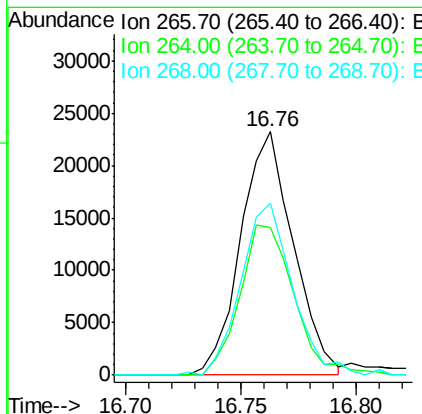
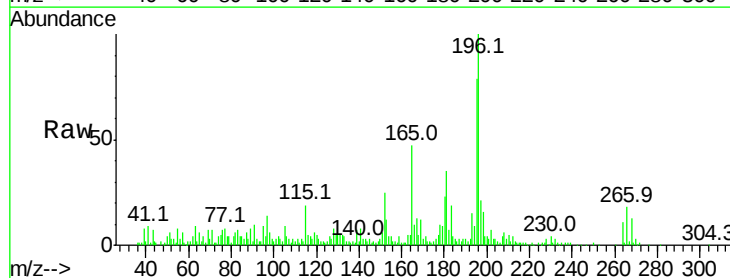
Tot Ion	Ratio	Lower	Upper
169	100		
168	174.7	54.0	81.0#
167	81.9	29.1	43.7#

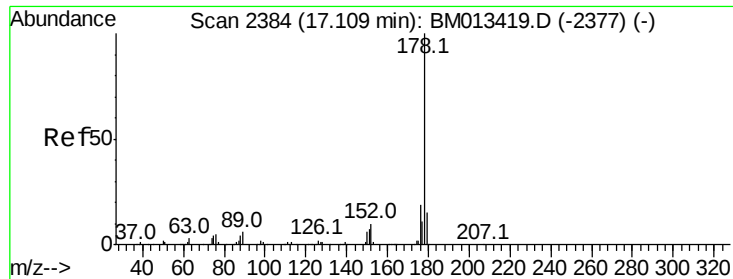


#68

Pentachlorophenol
 Concen: 3.948 ng/ul
 RT: 16.76 min Scan# 2325
 Delta R.T. 0.04 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	65.2	49.3	73.9
268	70.4	52.6	78.8





#69

Phenanthrene

Concen: 194.787 ng/ul

RT: 17.23 min Scan# 2405

Delta R.T. 0.12 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampleId :

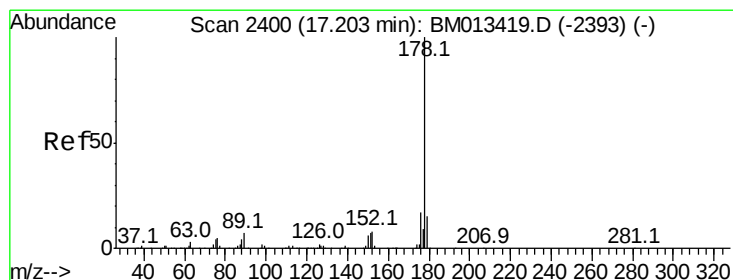
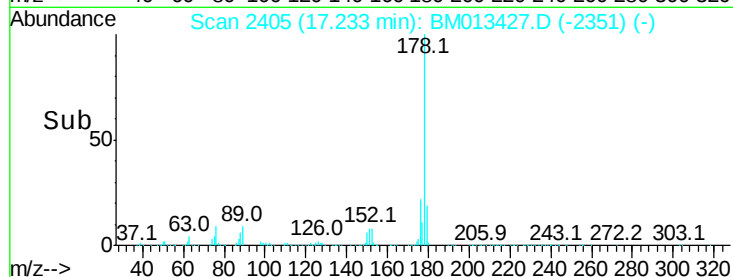
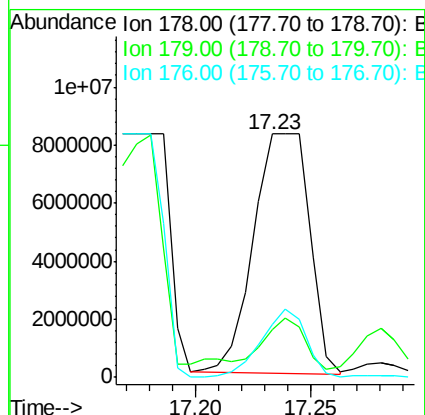
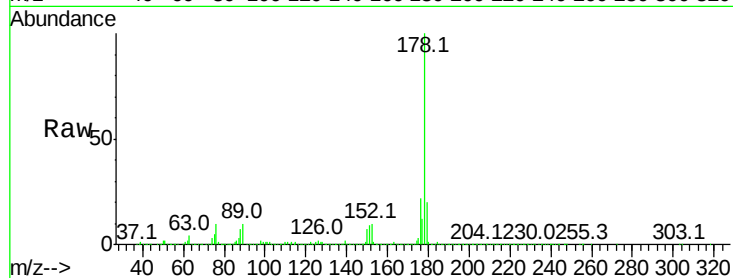
Tot Ion:178 Resp:13799864

Ion Ratio Lower Upper

178 100

179 19.5 12.6 19.0#

176 21.8 14.9 22.3



#71

Anthracene

Concen: 190.490 ng/ul

RT: 17.23 min Scan# 2405

Delta R.T. 0.03 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

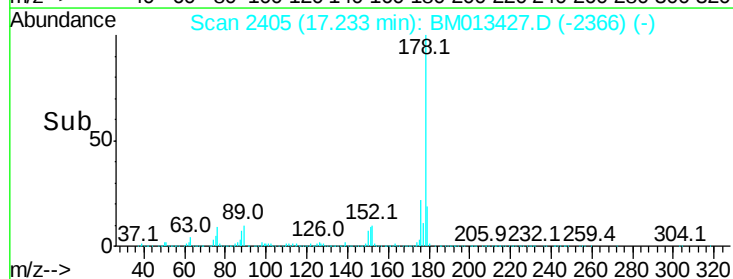
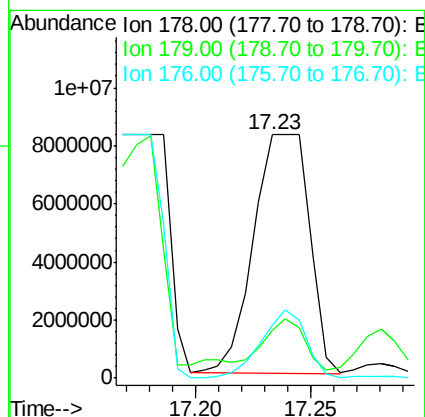
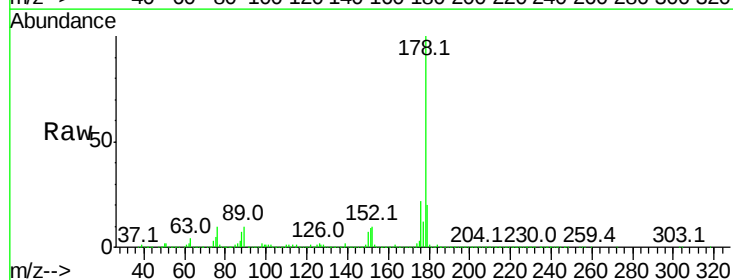
Tgt Ion:178 Resp:13794629

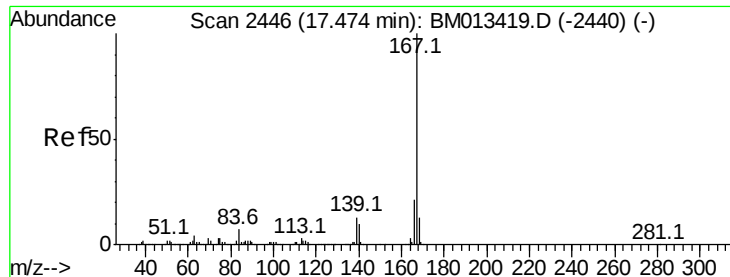
Ion Ratio Lower Upper

178 100

179 19.5 11.7 17.5#

176 21.8 14.6 21.8





#72

Carbazole

Concen: 119.924 ng/ul

RT: 17.49 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampleId :

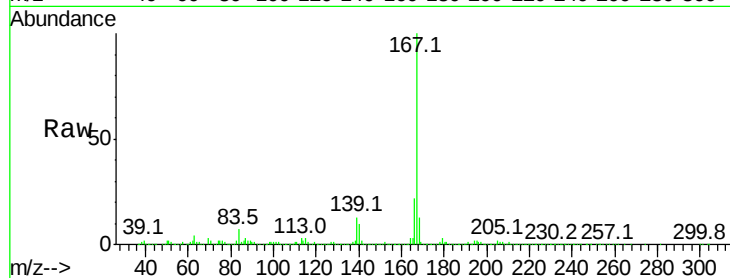
Tot Ion:167 Resp: 7469841

Ion Ratio Lower Upper

167 100

166 21.8 17.1 25.7

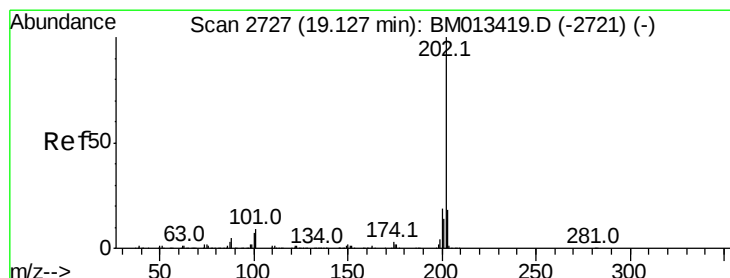
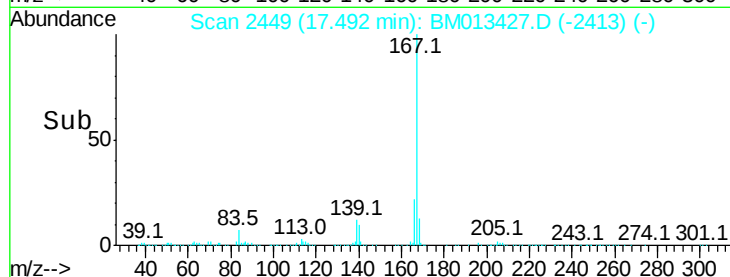
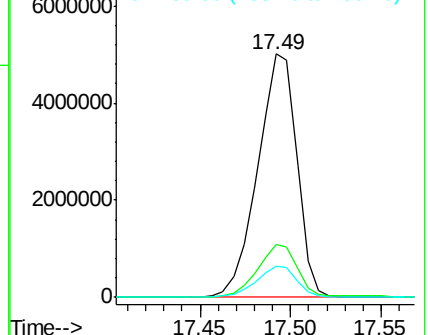
139 12.9 10.0 15.0



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: 1.131 ng/ul

RT: 19.24 min Scan# 2747

Delta R.T. 0.11 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

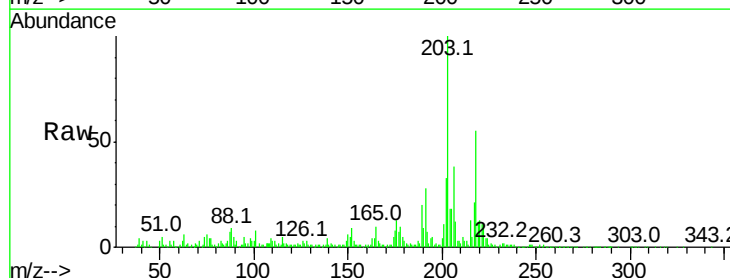
Tgt Ion:202 Resp: 98210

Ion Ratio Lower Upper

202 100

101 23.3 4.6 7.0#

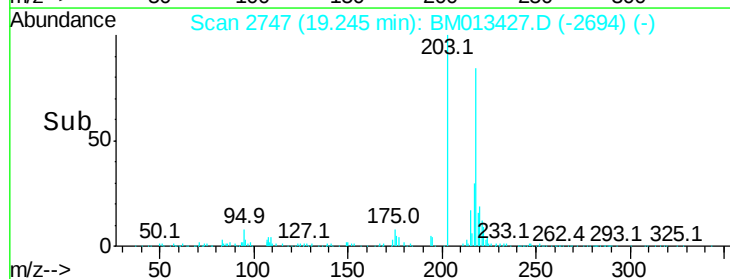
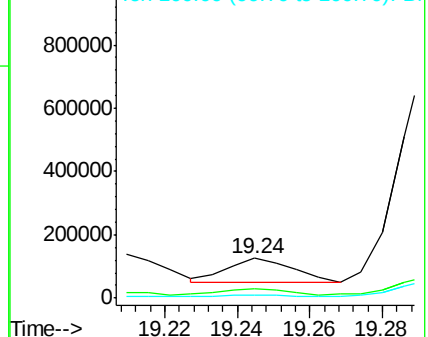
100 8.0 3.4 5.2#

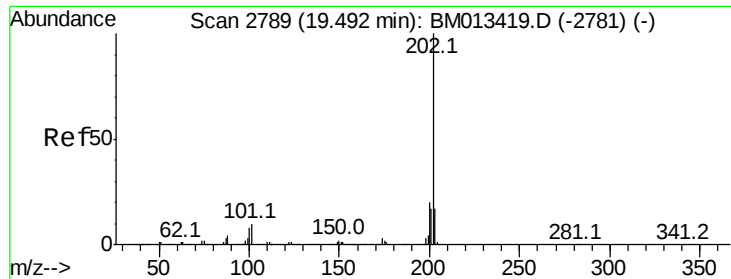


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

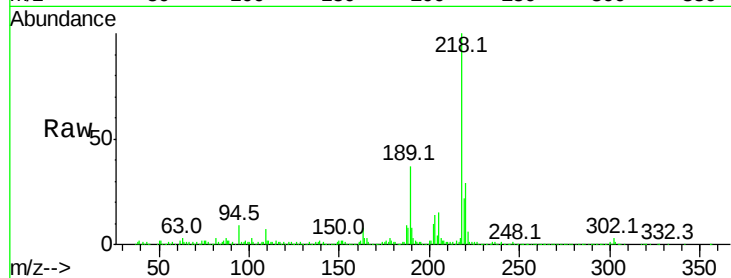




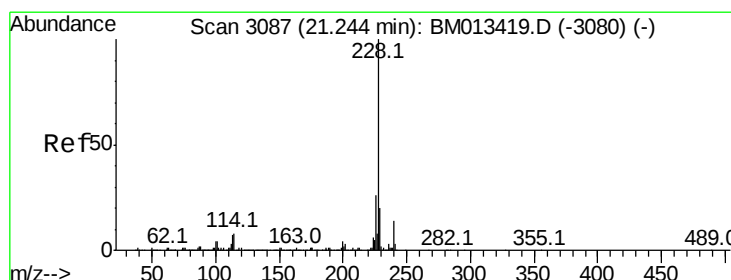
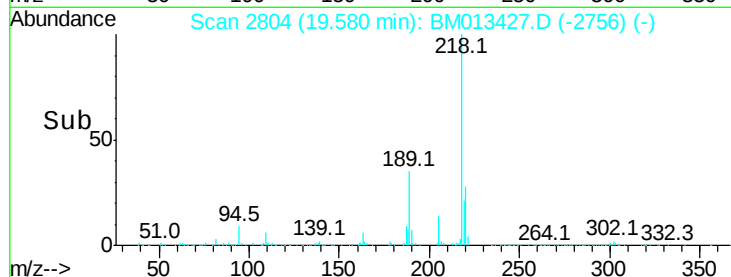
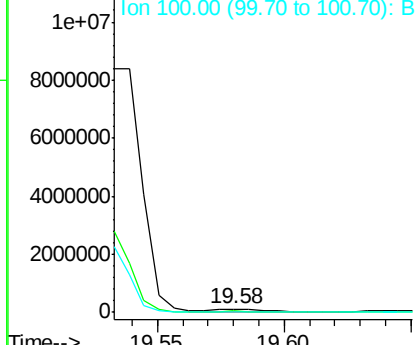
#77
 Pvrene
 Concen: 1.928 ng/ul
 RT: 19.58 min Scan# 2804
 Delta R.T. 0.08 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Instrument :
 BNA_M
 ClientSampled :

Tot Ion:202 Resp: 138215
 Ion Ratio Lower Upper
 202 100
 101 32.4 5.1 7.7#
 100 10.6 4.9 7.3#

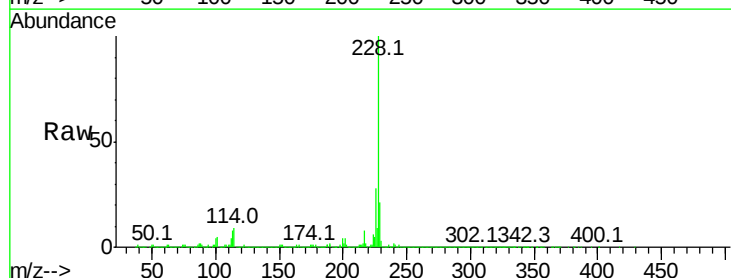


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B

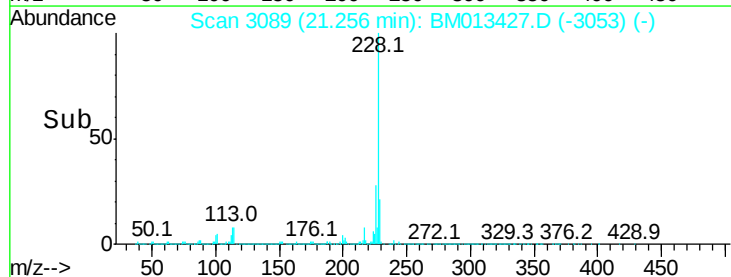
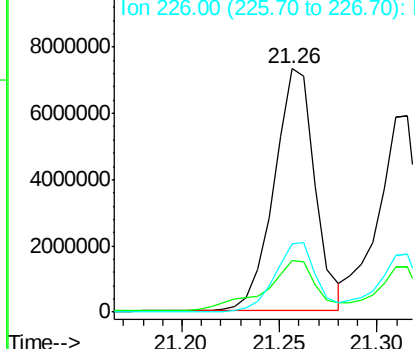


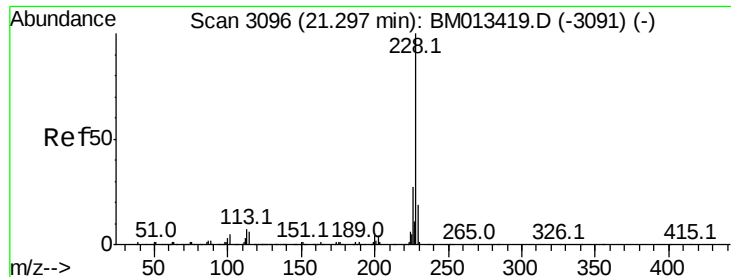
#80
 Benzo(a)anthracene
 Concen: 142.258 ng/ul
 RT: 21.26 min Scan# 3089
 Delta R.T. 0.01 min
 Lab File: BM013427.D
 Acq: 15 Dec 2017 06:36

Tgt Ion:228 Resp:10651154
 Ion Ratio Lower Upper
 228 100
 229 21.3 15.4 23.0
 226 28.1 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: 119.323 ng/ul

RT: 21.32 min Scan# 3099

Delta R.T. 0.02 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

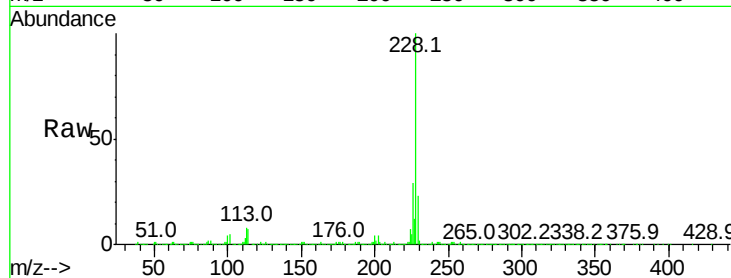
Instrument :

BNA_M

ClientSampled :

Tot Ion:228 Resp: 8288444

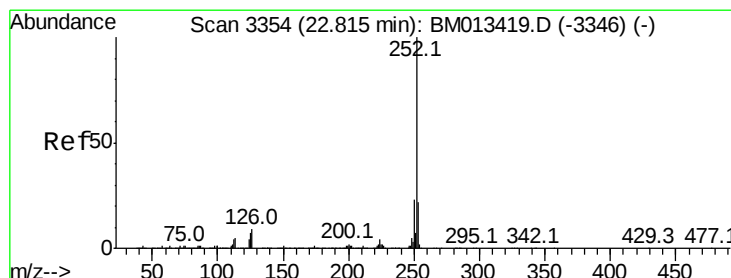
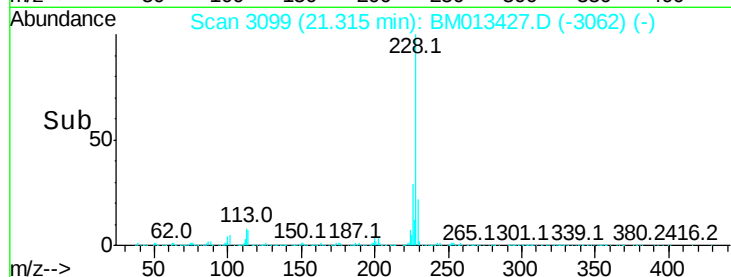
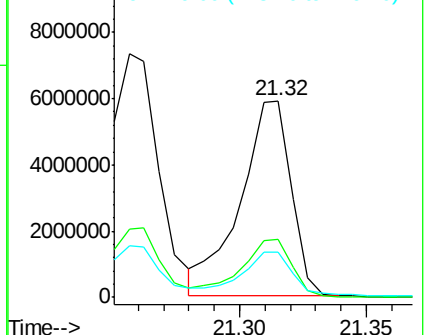
Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.4	35.2
229	22.7	15.5	23.3



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: 88.240 ng/ul

RT: 22.83 min Scan# 3357

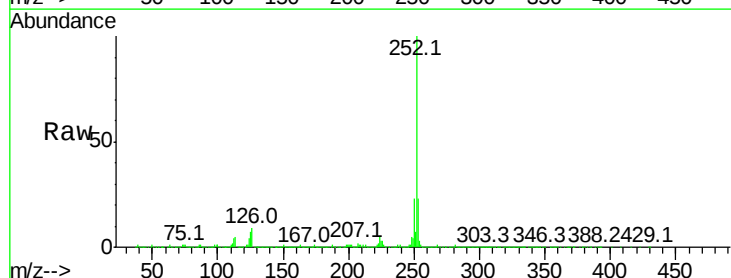
Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Tgt Ion:252 Resp: 5495704

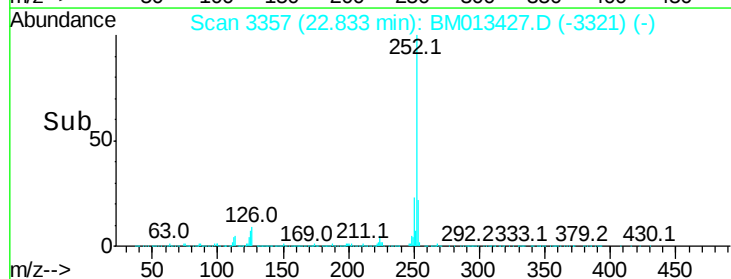
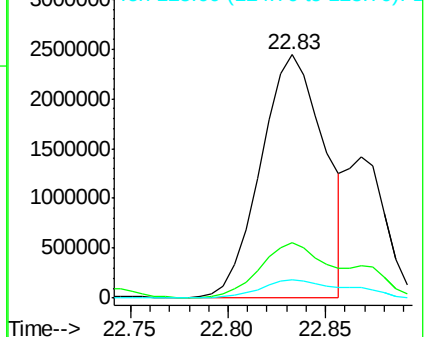
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	7.4	3.6	5.4

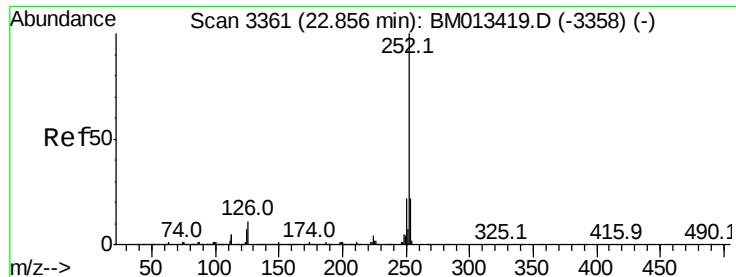


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 93.766 ng/ul

RT: 22.83 min Scan# 3357

Delta R.T. -0.03 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampleId :

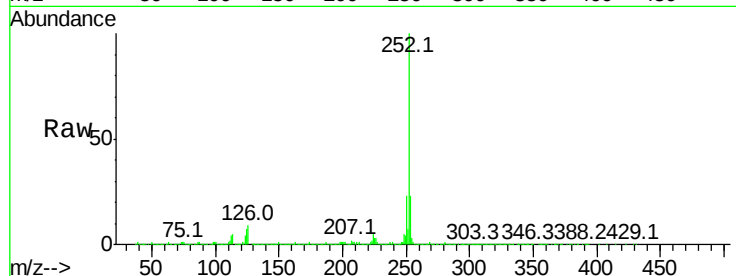
Tot Ion:252 Resp: 5495704

Ion Ratio Lower Upper

252 100

253 22.7 17.1 25.7

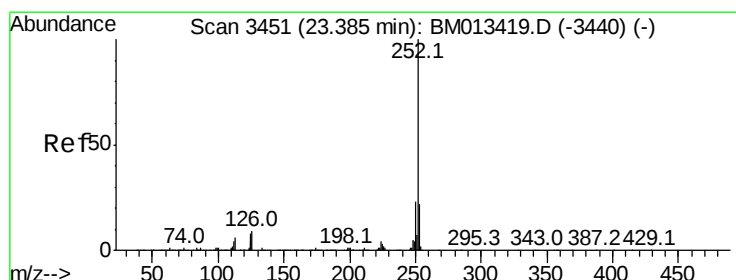
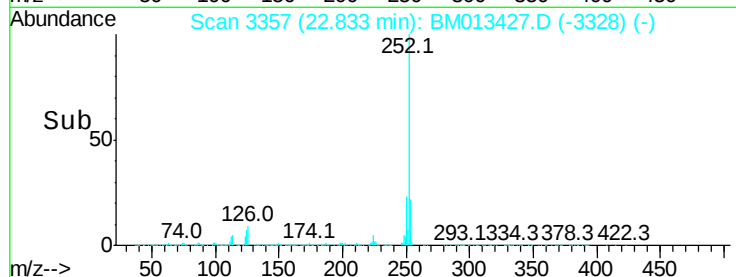
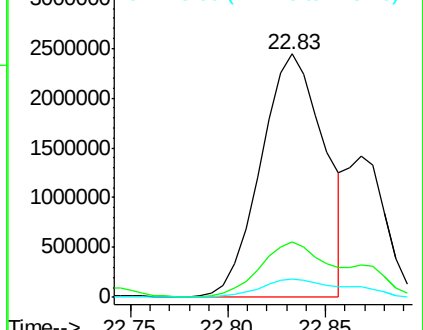
125 7.4 3.4 5.2#



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



#88

Benzo(a)pyrene

Concen: 64.645 ng/ul

RT: 23.40 min Scan# 3453

Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

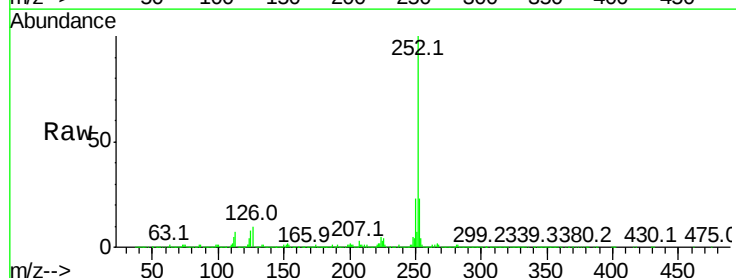
Tgt Ion:252 Resp: 3616706

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

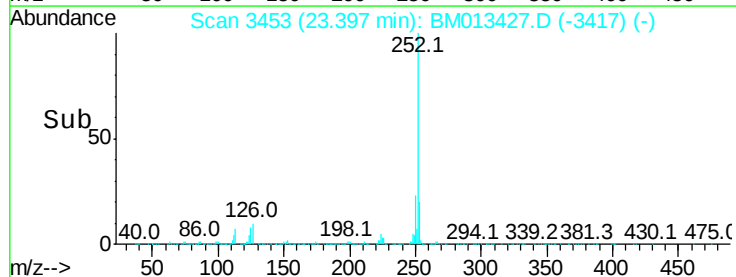
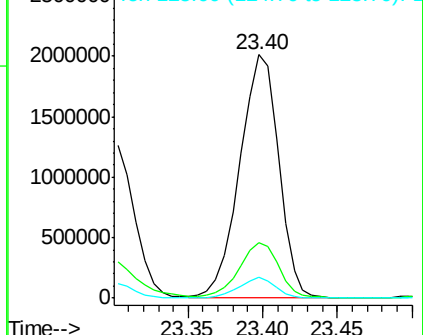
125 8.3 4.0 6.0#

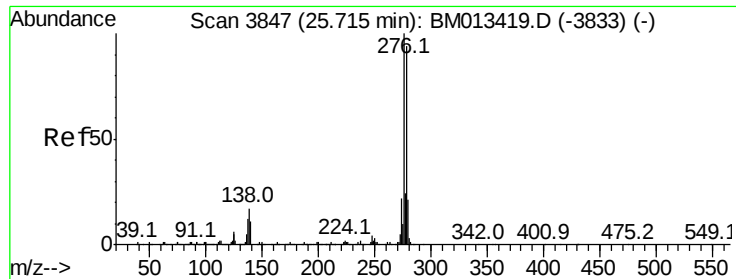


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



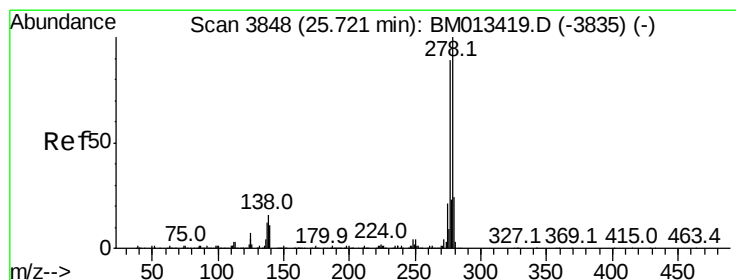
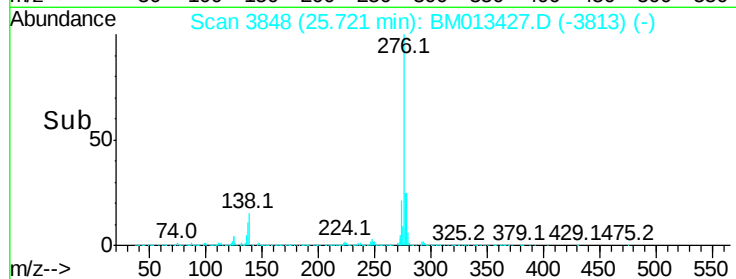
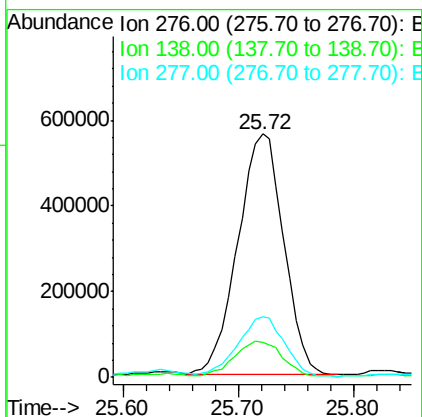
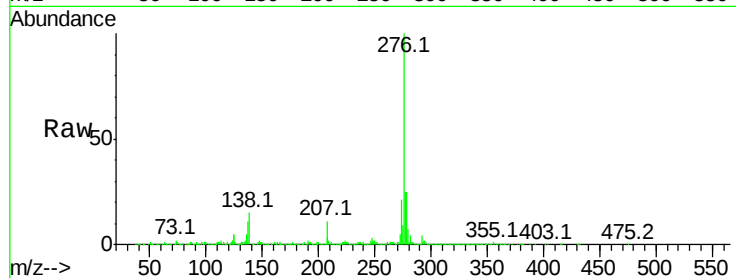


#89

Indeno(1,2,3-cd)pyrene
Concen: 28.004 ng/ul
RT: 25.72 min Scan# 3848
Delta R.T. 0.01 min
Lab File: BM013427.D
Acq: 15 Dec 2017 06:36

Instrument :
BNA_M
ClientSampleId :

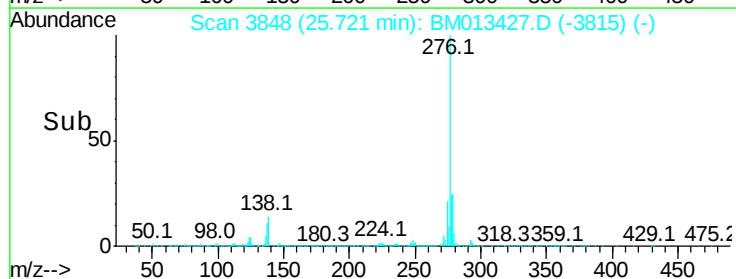
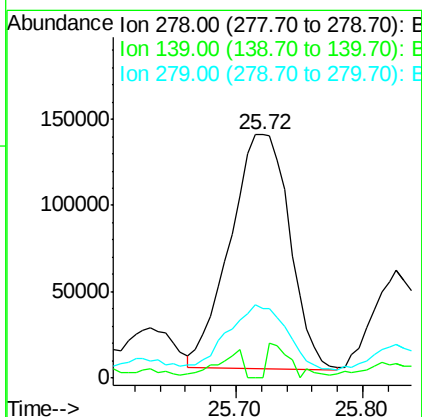
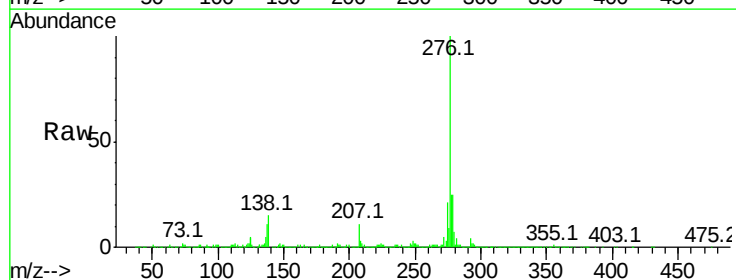
Tot Ion:276 Resp: 1554554
Ion Ratio Lower Upper
276 100
138 14.5 9.3 13.9#
277 24.8 19.9 29.9

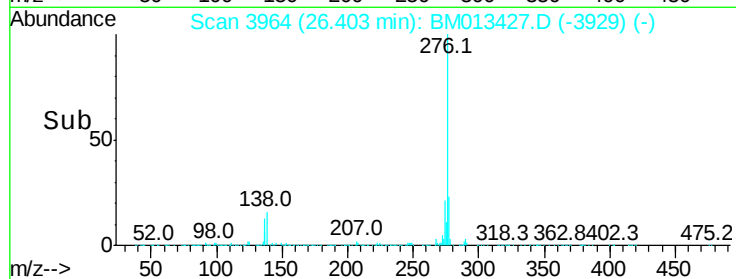
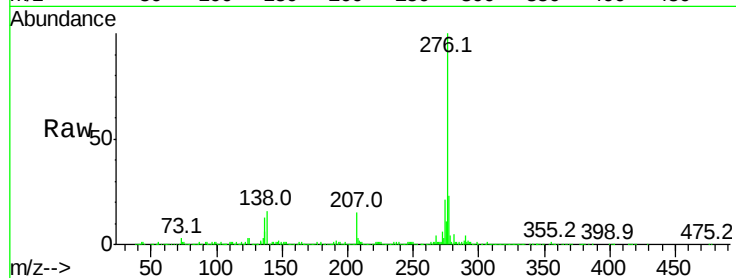
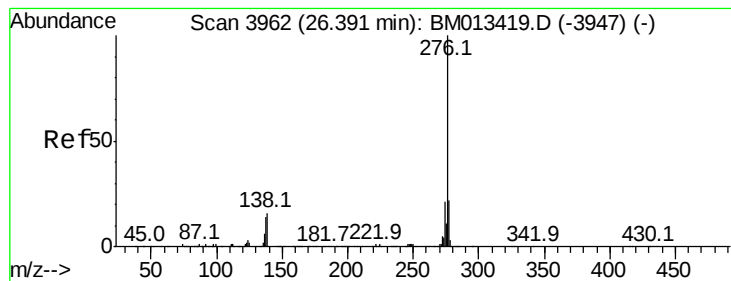


#90

Dibenzo(a,h)anthracene
Concen: 9.376 ng/ul
RT: 25.72 min Scan# 3848
Delta R.T. -0.01 min
Lab File: BM013427.D
Acq: 15 Dec 2017 06:36

Tgt Ion:278 Resp: 443197
Ion Ratio Lower Upper
278 100
139 0.0 5.8 8.8#
279 28.4 18.6 27.8#





#91

Benzo(a,h,i)perylene

Concen: 29.346 ng/ul

RT: 26.40 min Scan# 3964

Delta R.T. 0.01 min

Lab File: BM013427.D

Acq: 15 Dec 2017 06:36

Instrument :

BNA_M

ClientSampleId :

Tot Ion:276 Resp: 1284983

Ion Ratio Lower Upper

276 100

138 16.1 8.5 12.7#

277 23.4 18.6 28.0

