

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051719\
 Data File : BM020358.D
 Acq On : 17 May 2019 10:57
 Operator : JU/SJ
 Sample : K2604-04ME
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 GAJ78ME

Quant Time: May 18 02:54:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 02:51:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	60126	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	216747	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.39	164	128789	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.14	188	296887	20.00	ng/ul	0.00
77) Chrysene-d12	21.33	240	316083	20.00	ng/ul	0.00
85) Perylene-d12	23.61	264	366318	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	10340	6.35	ng/uL	0.00
5) Phenol-d5	6.90	99	140497	29.29	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.07	67	94040	30.84	ng/ul	0.00
9) 2-Chlorophenol-d4	7.26	132	113013	32.13	ng/ul	0.00
13) 4-Methylphenol-d8	8.44	113	98127	28.09	ng/ul	0.00
19) Nitrobenzene-d5	8.90	128	50243	35.63	ng/ul	0.00
22) 2-Nitrophenol-d4	9.62	143	53082	34.13	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.15	165	105802	32.17	ng/ul	0.00
29) 4-Chloroaniline-d4	10.67	131	89285	26.28	ng/ul	0.00
43) Dimethylphthalate-d6	13.80	166	331061	35.73	ng/ul	0.00
46) Acenaphthylene-d8	14.08	160	404111	34.86	ng/ul	0.00
51) 4-Nitrophenol-d4	14.60	143	25937	19.28	ng/ul	0.00
57) Fluorene-d10	15.38	176	289584	35.14	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.52	200	33954	20.08	ng/ul	0.00
70) Anthracene-d10	17.24	188	445965	35.02	ng/ul	0.00
78) Pyrene-d10	19.54	212	525216	34.50	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.46	264	565178	33.95	ng/ul	0.00

Target Compounds

					Qvalue
4) Benzaldehyde	6.89	77	10323	2.512	ng/ul 98
15) N-Nitroso-di-n-propylamine	8.44	70	3544	1.041	ng/ul# 1
17) Hexachloroethane	8.82	117	7828	4.617	ng/ul# 1
28) Naphthalene	10.57	128	292814	29.404	ng/ul 99
32) Caprolactam	11.52	113	4963	5.435	ng/ul# 41
34) 2-Methylnaphthalene	12.20	142	1127306	156.348	ng/ul 97
40) 1,1'-Biphenyl	13.22	154	19751	2.142	ng/ul# 93
41) 2-Chloronaphthalene	13.36	162	7845	1.069	ng/ul# 60
44) Dimethylphthalate	13.84	163	49716	5.424	ng/ul 99
47) Acenaphthylene	14.11	152	844738	77.287	ng/ul 98
49) Acenaphthene	14.45	153	101199	13.468	ng/ul 96
53) Dibenzofuran	14.79	168	197511	17.358	ng/ul 96
54) 2,4-Dinitrotoluene	14.74	165	3245	1.325	ng/ul# 66
58) Fluorene	15.44	166	572726	62.831	ng/ul 99
64) N-Nitrosodiphenylamine	15.64	169	22234	3.027	ng/ul# 84
69) Phenanthrene	17.19	178	2973194	210.180	ng/ul 100
71) Anthracene	17.27	178	623260	43.314	ng/ul 100
76) Fluoranthene	19.20	202	1950381	109.148	ng/ul 100
79) Pyrene	19.57	202	2914932	153.644	ng/ul 99
82) Benzo(a)anthracene	21.31	228	1094182	57.515	ng/ul 95
84) Chrysene	21.37	228	1008345	55.462	ng/ul 96
87) Benzo(b)fluoranthene	22.92	252	1011173	48.366	ng/ul# 97
88) Benzo(k)fluoranthene	22.92	252	1011173	49.241	ng/ul 98

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QLast Update : Sat May 18 02:51:01 2019
Response via : Initial Calibration

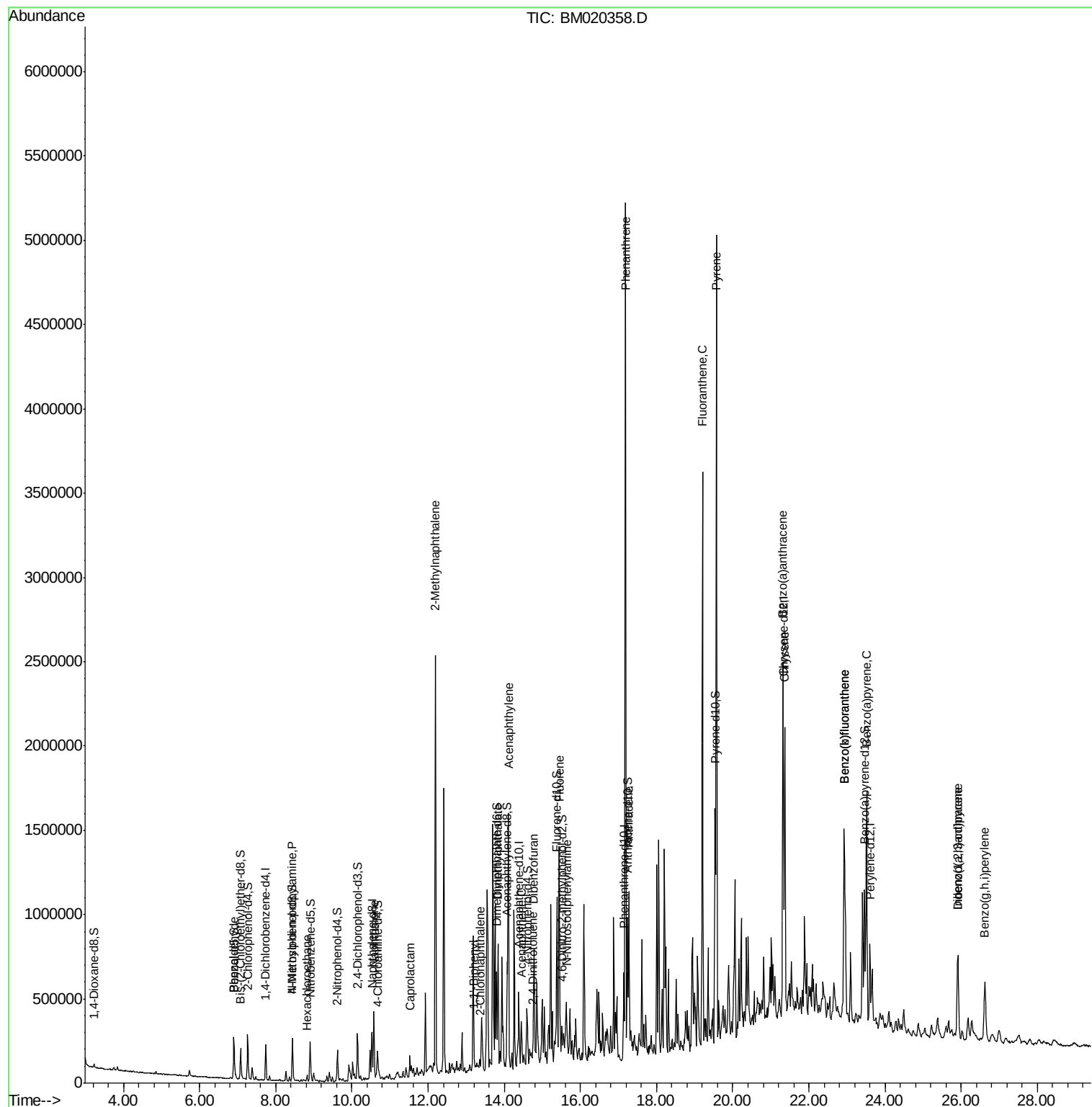
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.51	252	1004669	51.063	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.91	276	531436	23.705	ng/ul	97
92) Dibenzo(a,h)anthracene	25.91	278	150166	7.833	ng/ul#	96
93) Benzo(g,h,i)perylene	26.62	276	470290	25.342	ng/ul	96

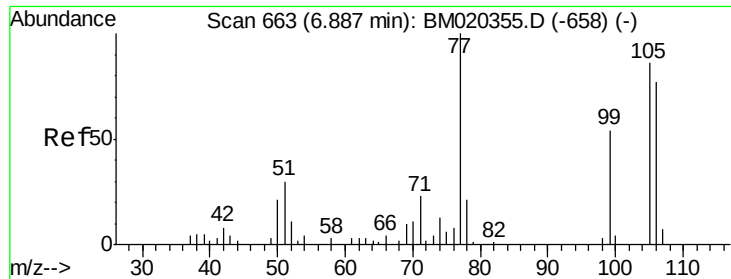
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 2.512 ng/ul

RT: 6.89 min Scan# 664

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

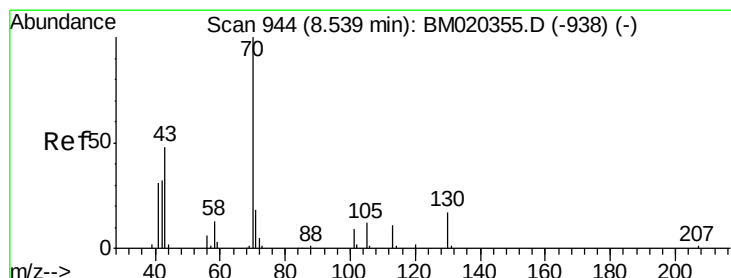
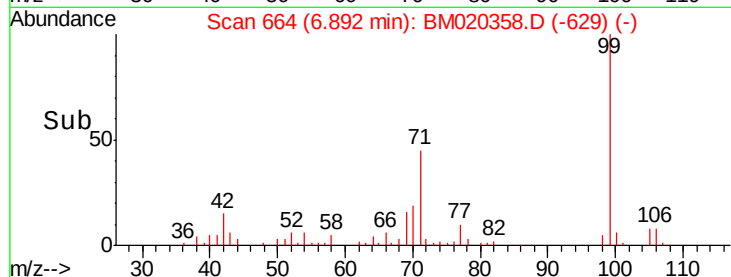
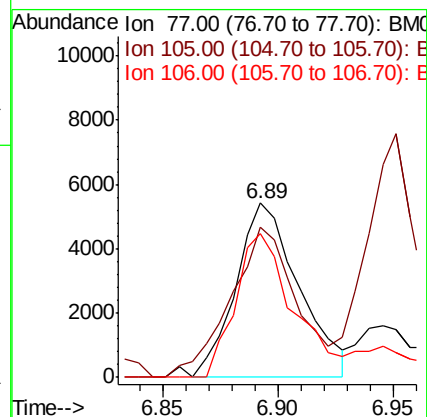
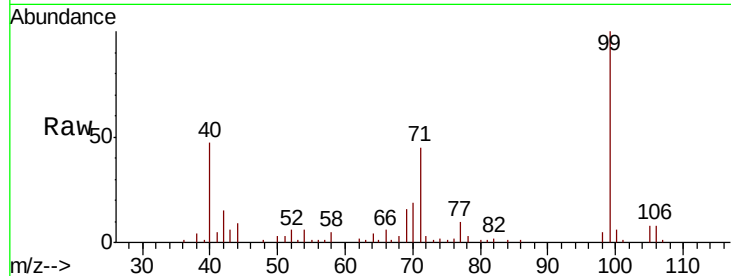
Tgt Ion: 77 Resp: 10323

Ion Ratio Lower Upper

77 100

105 86.0 67.4 101.0

106 82.3 64.8 97.2



#15

N-Nitroso-di-n-propylamine

Concen: 1.041 ng/ul

RT: 8.44 min Scan# 927

Delta R.T. -0.10 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Tgt Ion: 70 Resp: 3544

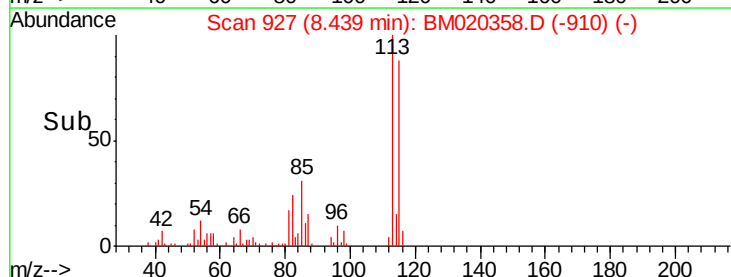
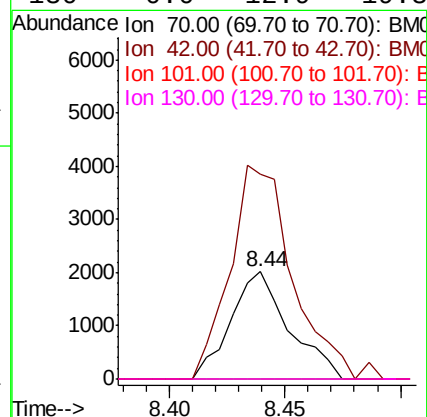
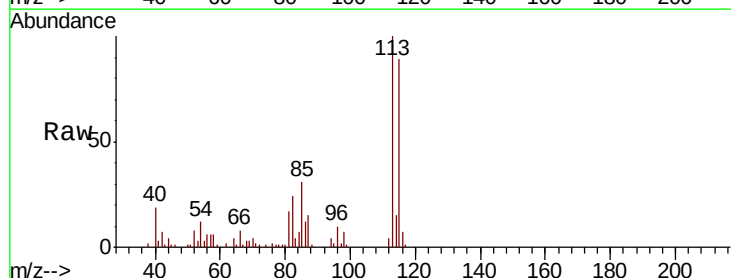
Ion Ratio Lower Upper

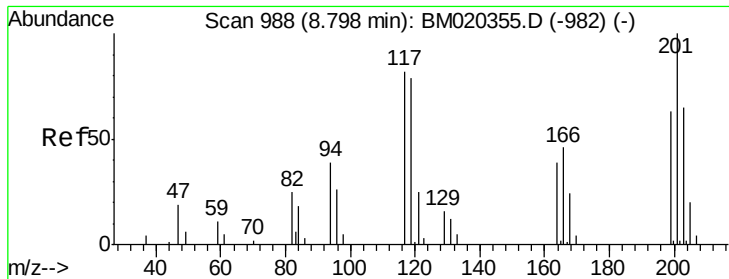
70 100

42 190.5 26.5 39.7#

101 0.0 7.2 10.8#

130 0.0 12.9 19.3#

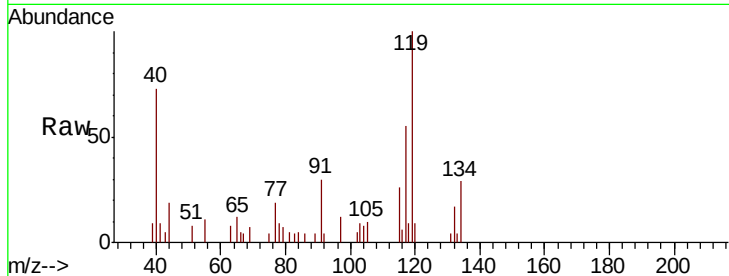




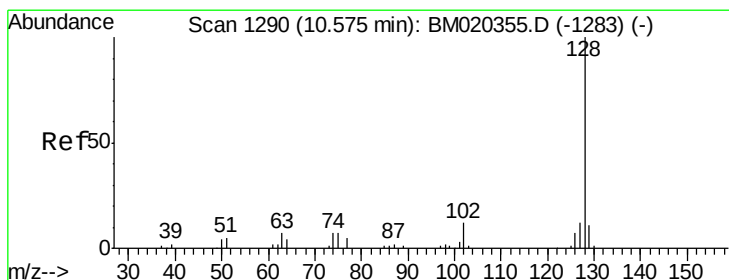
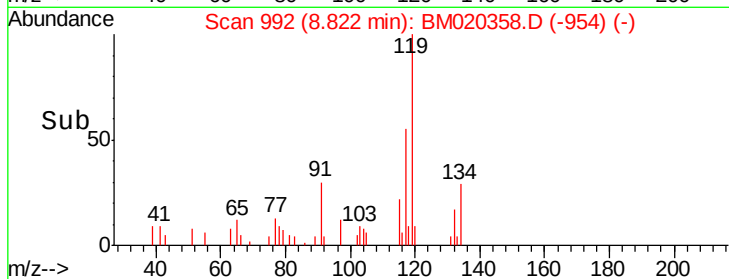
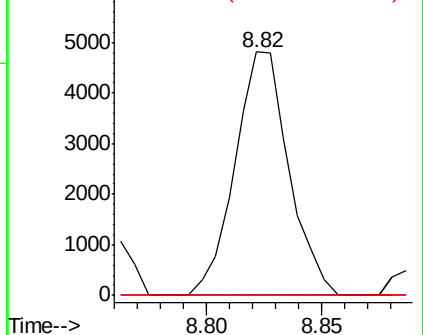
#17
Hexachloroethane
Concen: 4.617 ng/ul
RT: 8.82 min Scan# 992
Delta R.T. 0.02 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Instrument :
BNA_M
ClientSampleId :
GAJ78ME

Tgt Ion:117 Resp: 7828
Ion Ratio Lower Upper
117 100
201 0.0 102.4 153.6#
199 0.0 63.3 94.9#

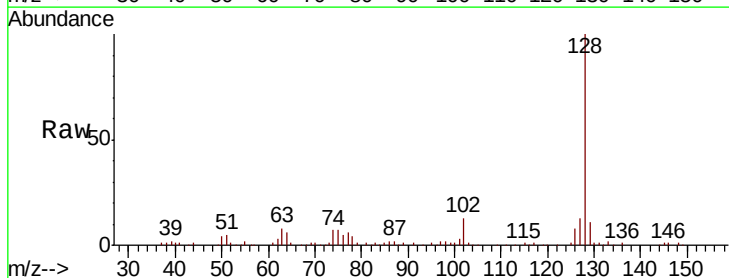


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

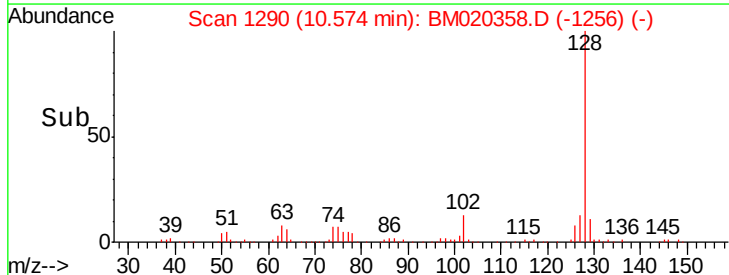
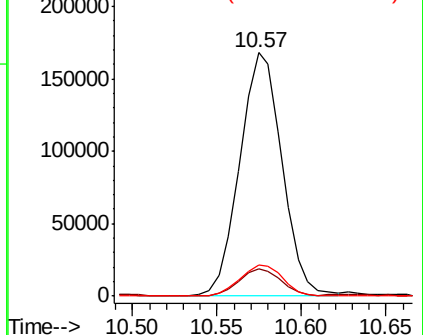


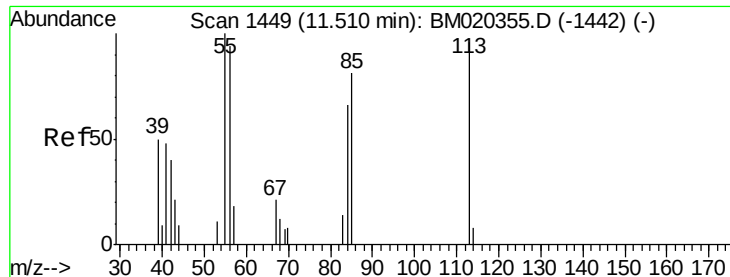
#28
Naphthalene
Concen: 29.404 ng/ul
RT: 10.57 min Scan# 1290
Delta R.T. -0.00 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Tgt Ion:128 Resp: 292814
Ion Ratio Lower Upper
128 100
129 11.5 8.6 13.0
127 12.9 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#32

Caprolactam

Concen: 5.435 ng/ul

RT: 11.52 min Scan# 1451

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

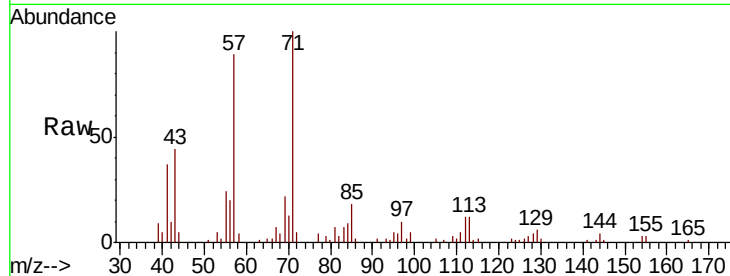
Tgt Ion:113 Resp: 4963

Ion Ratio Lower Upper

113 100

55 202.8 104.6 156.8#

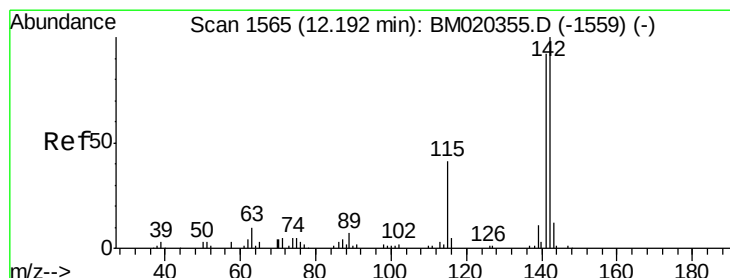
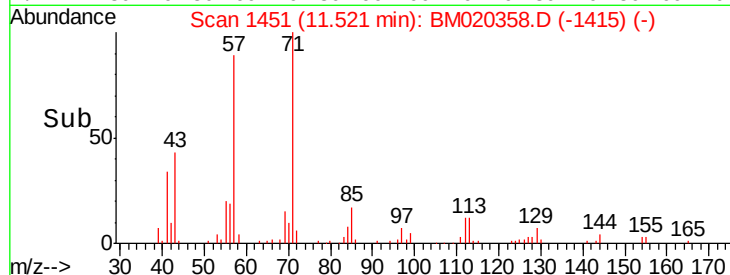
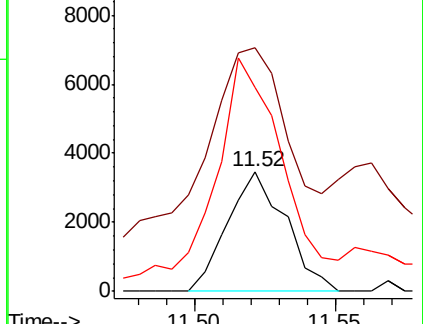
56 169.7 88.4 132.6#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#34

2-Methylnaphthalene

Concen: 156.348 ng/ul

RT: 12.20 min Scan# 1566

Delta R.T. 0.01 min

Lab File: BM020358.D

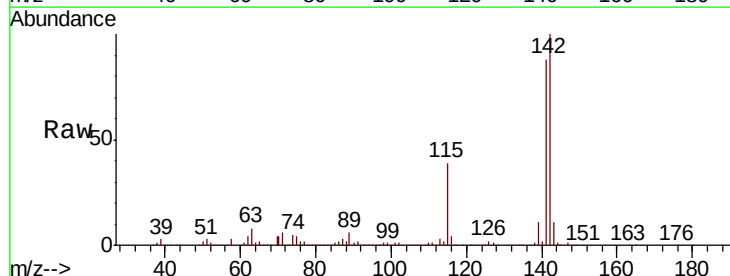
Acq: 17 May 2019 10:57

Tgt Ion:142 Resp: 1127306

Ion Ratio Lower Upper

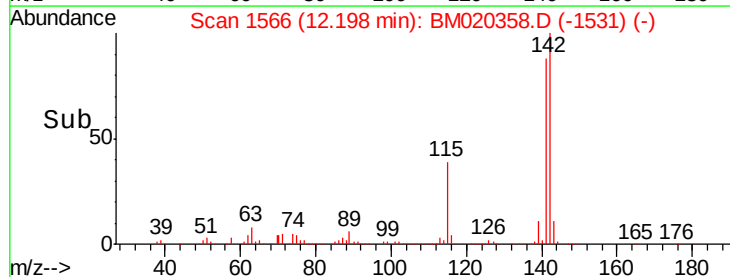
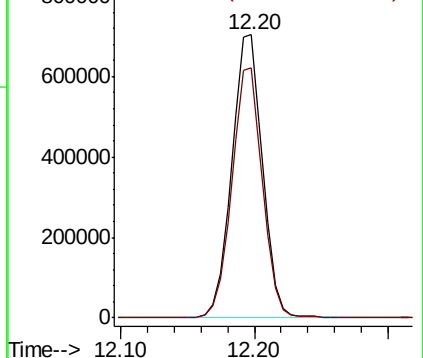
142 100

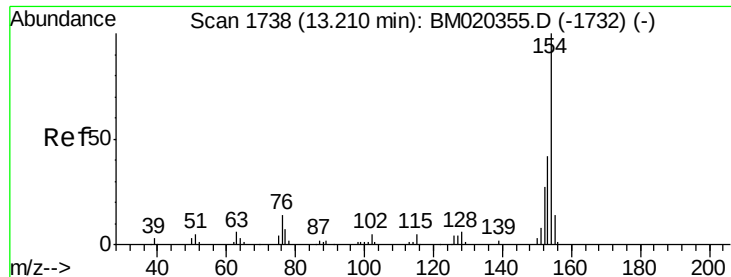
141 88.4 68.6 102.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

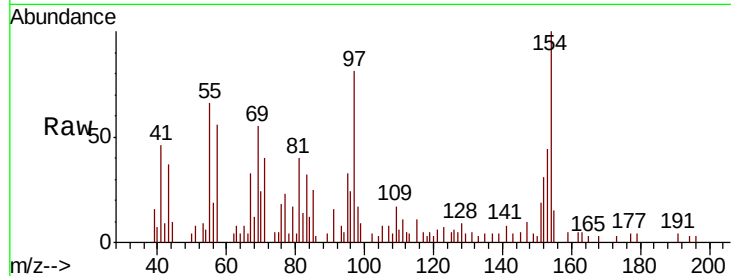




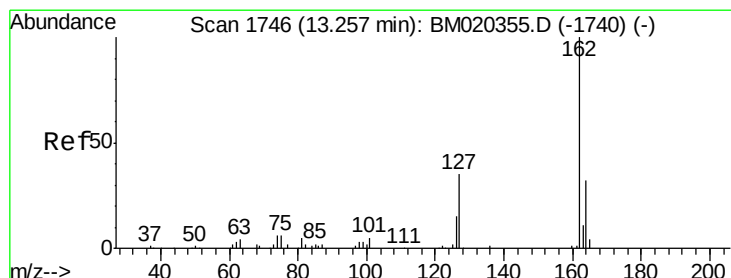
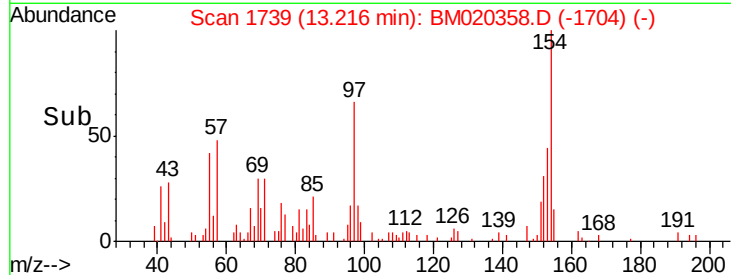
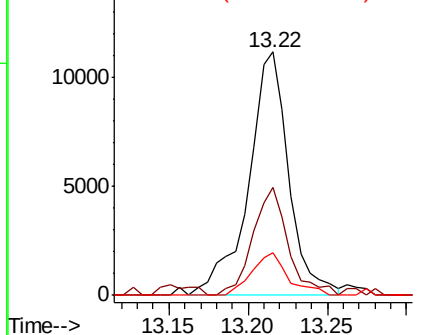
#40
 1,1'-Biphenyl
 Concen: 2.142 ng/ul
 RT: 13.22 min Scan# 1739
 Delta R.T. 0.01 min
 Lab File: BM020358.D
 Acq: 17 May 2019 10:57

Instrument :
 BNA_M
 ClientSampleId :
 GAJ78ME

Tgt Ion:154 Resp: 19751
 Ion Ratio Lower Upper
 154 100
 153 44.1 32.2 48.4
 76 17.6 11.0 16.4#

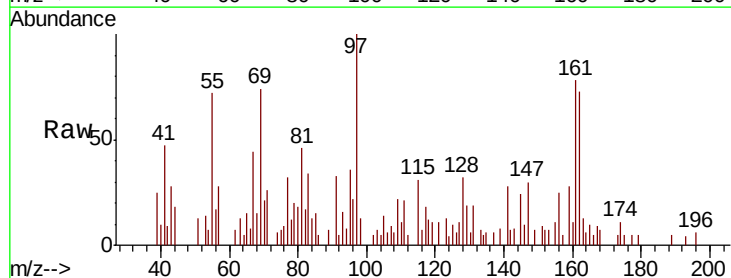


Abundance Ion 154.00 (153.70 to 154.70): E
 15000 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

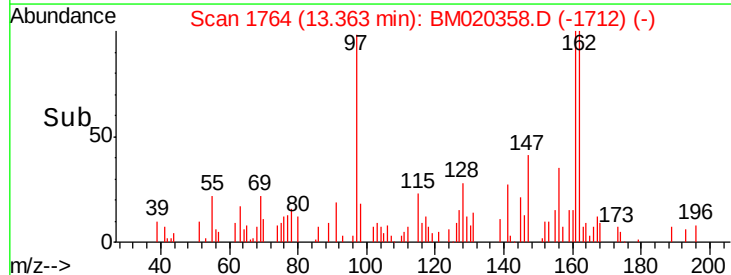
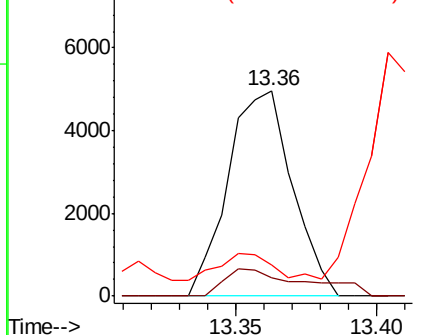


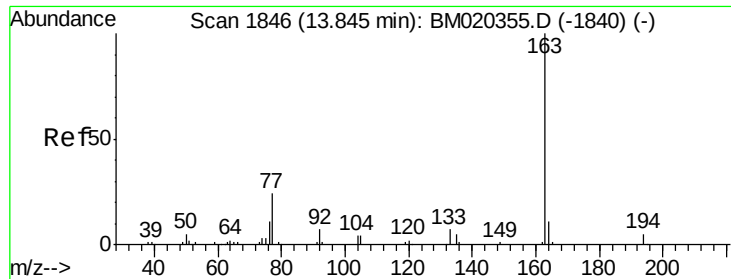
#41
 2-Chloronaphthalene
 Concen: 1.069 ng/ul
 RT: 13.36 min Scan# 1764
 Delta R.T. 0.11 min
 Lab File: BM020358.D
 Acq: 17 May 2019 10:57

Tgt Ion:162 Resp: 7845
 Ion Ratio Lower Upper
 162 100
 164 8.6 26.4 39.6#
 127 15.3 29.8 44.8#



Abundance Ion 162.00 (161.70 to 162.70): E
 8000 Ion 164.00 (163.70 to 164.70): E
 Ion 127.00 (126.70 to 127.70): E





#44

Dimethylphthalate

Concen: 5.424 ng/ul

RT: 13.84 min Scan# 1846

Delta R.T. -0.00 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

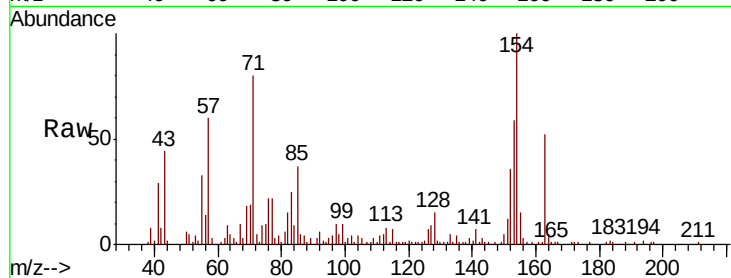
Tgt Ion:163 Resp: 49716

Ion Ratio Lower Upper

163 100

194 4.5 3.3 4.9

164 9.8 8.0 12.0

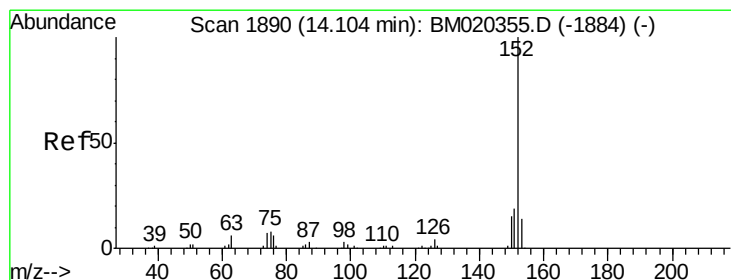
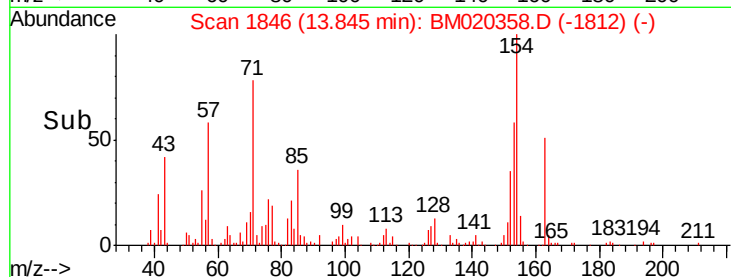
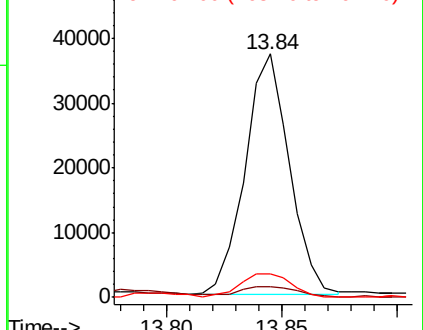


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 77.287 ng/ul

RT: 14.11 min Scan# 1891

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

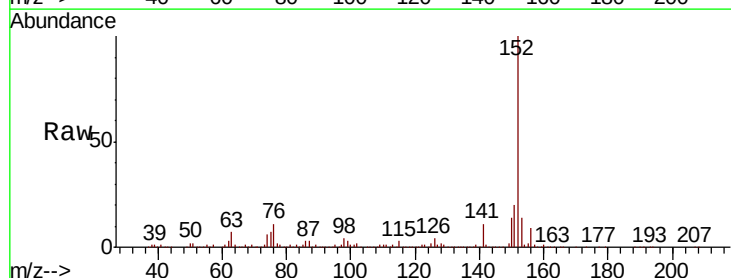
Tgt Ion:152 Resp: 844738

Ion Ratio Lower Upper

152 100

151 19.7 15.4 23.0

153 14.5 10.3 15.5

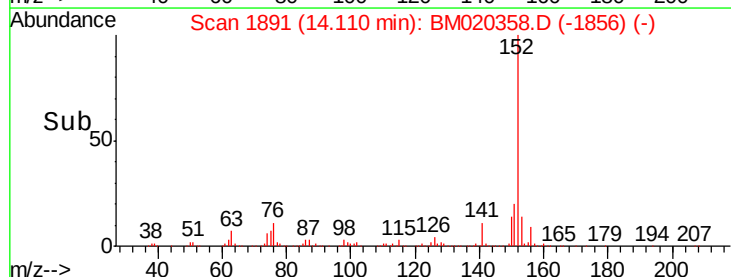
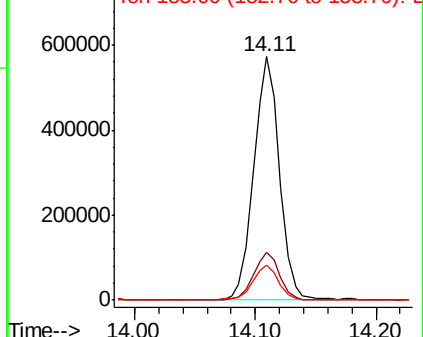


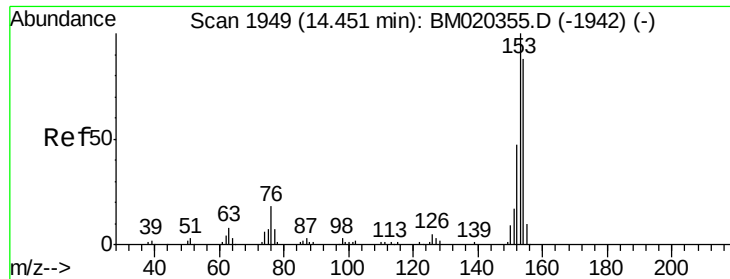
Abundance

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: 13.468 ng/ul

RT: 14.45 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

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GAJ78ME

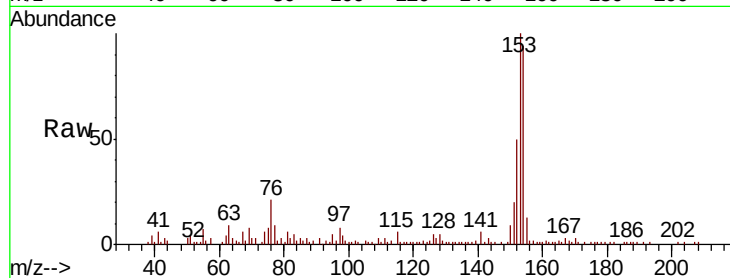
Tgt Ion:153 Resp: 101199

Ion Ratio Lower Upper

153 100

152 49.8 37.9 56.9

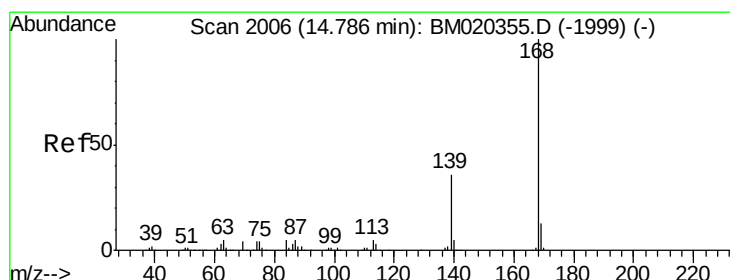
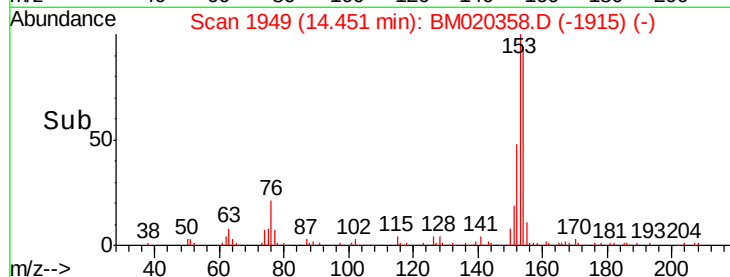
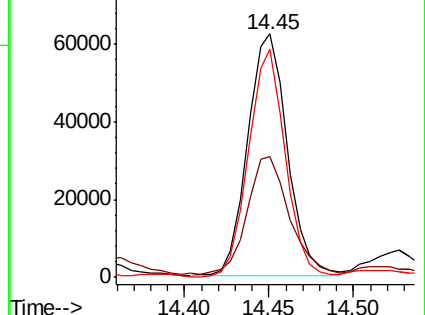
154 93.6 71.2 106.8



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: 17.358 ng/ul

RT: 14.79 min Scan# 2006

Delta R.T. -0.00 min

Lab File: BM020358.D

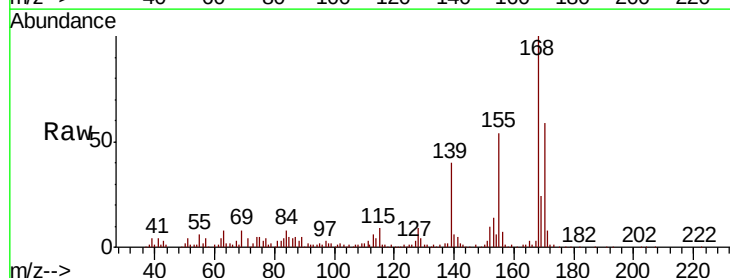
Acq: 17 May 2019 10:57

Tgt Ion:168 Resp: 197511

Ion Ratio Lower Upper

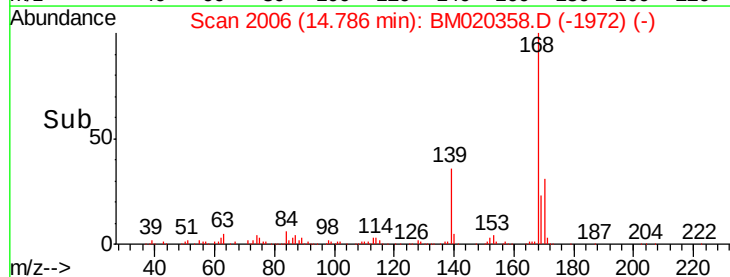
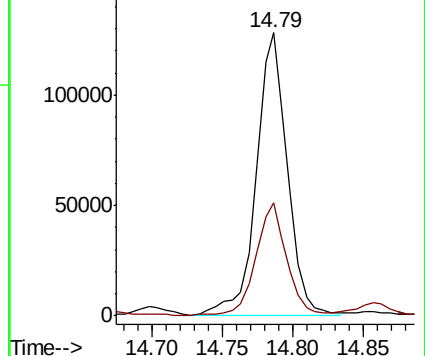
168 100

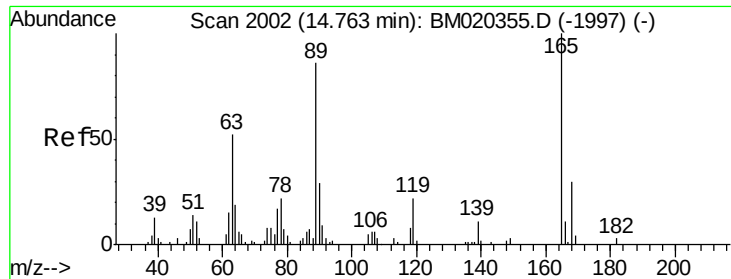
139 40.2 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

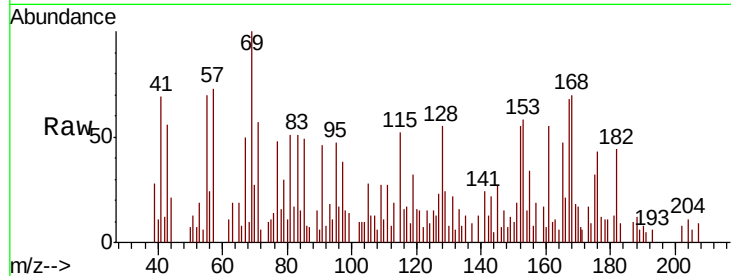




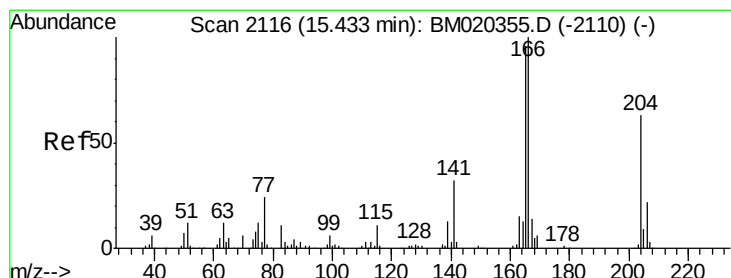
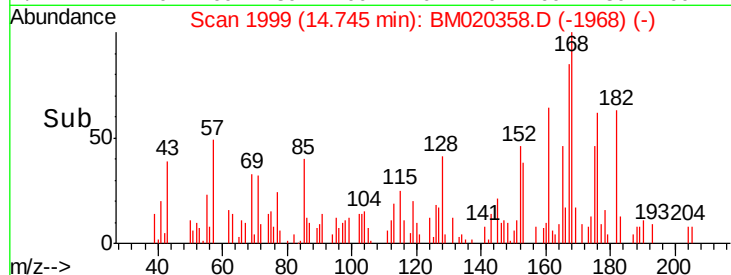
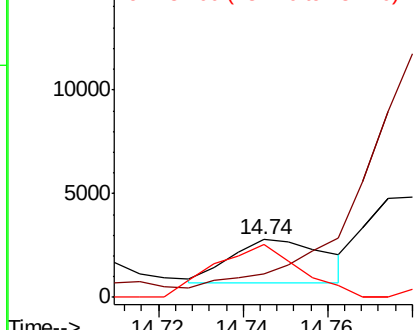
#54
2,4-Dinitrotoluene
Concen: 1.325 ng/ul
RT: 14.74 min Scan# 1999
Delta R.T. -0.02 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Instrument :
BNA_M
ClientSampleId :
GAJ78ME

Tgt Ion:165 Resp: 3245
Ion Ratio Lower Upper
165 100
63 39.8 43.2 64.8#
182 92.2 2.6 4.0#

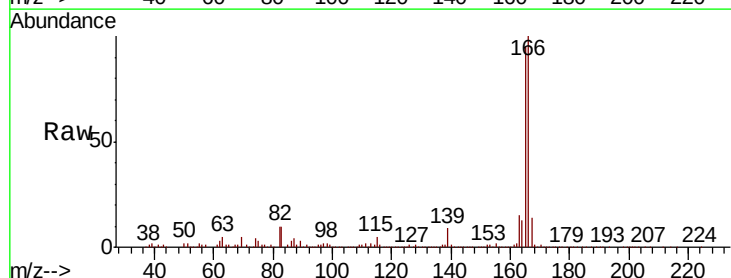


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BM
Ion 182.00 (181.70 to 182.70): E

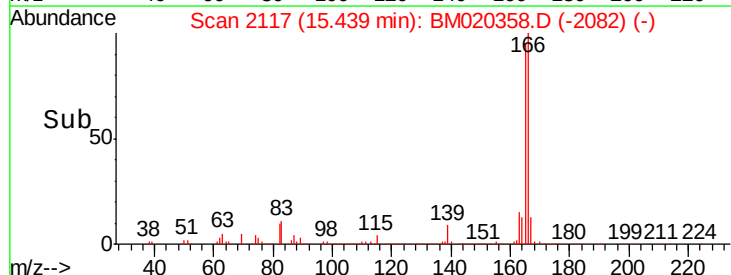
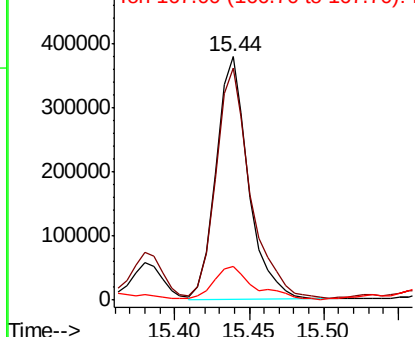


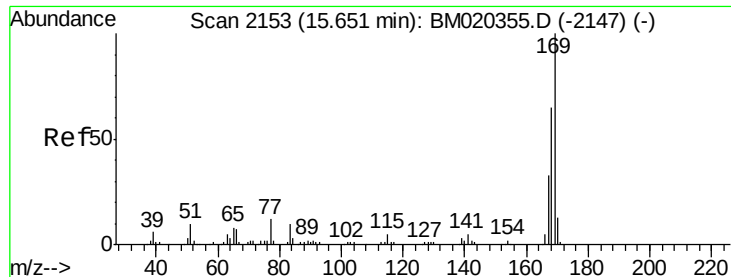
#58
Fluorene
Concen: 62.831 ng/ul
RT: 15.44 min Scan# 2117
Delta R.T. 0.01 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Tgt Ion:166 Resp: 572726
Ion Ratio Lower Upper
166 100
165 95.4 77.1 115.7
167 13.7 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

N-Nitrosodiphenylamine

Concen: 3.027 ng/ul

RT: 15.64 min Scan# 2151

Delta R.T. -0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

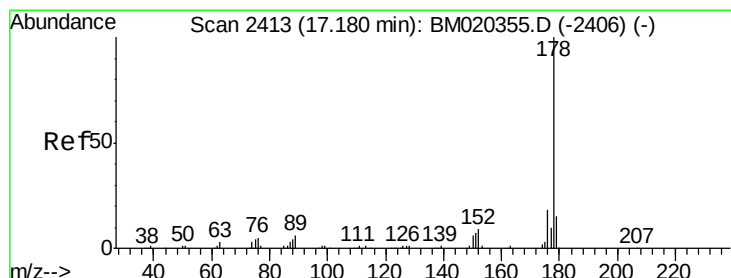
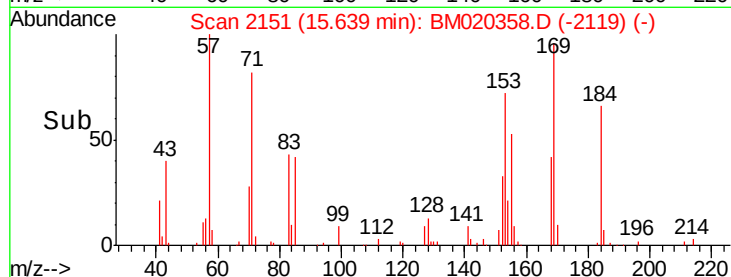
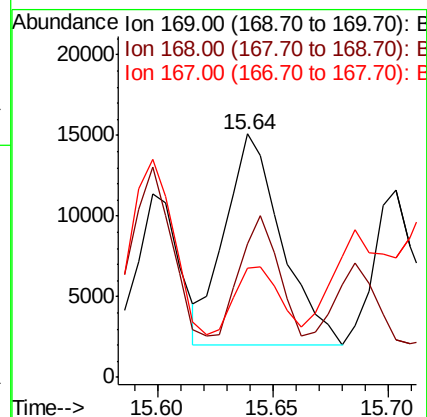
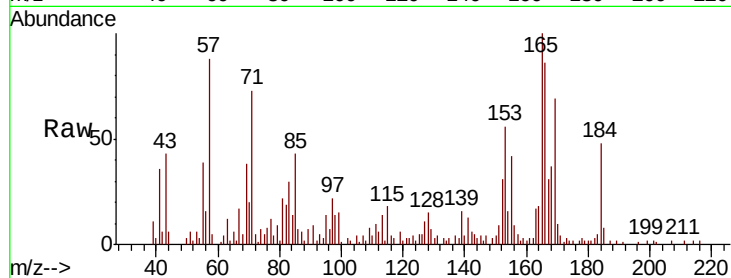
Tgt Ion:169 Resp: 22234

Ion Ratio Lower Upper

169 100

168 54.7 53.2 79.8

167 45.0 28.2 42.2#



#69

Phenanthrene

Concen: 210.180 ng/ul

RT: 17.19 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

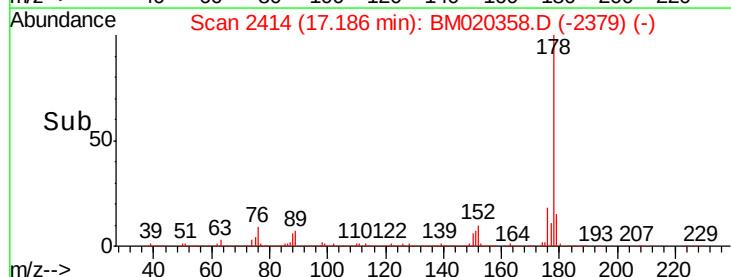
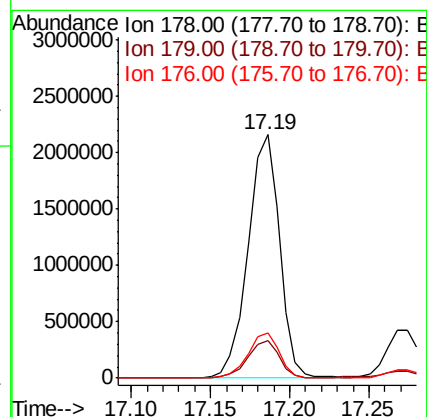
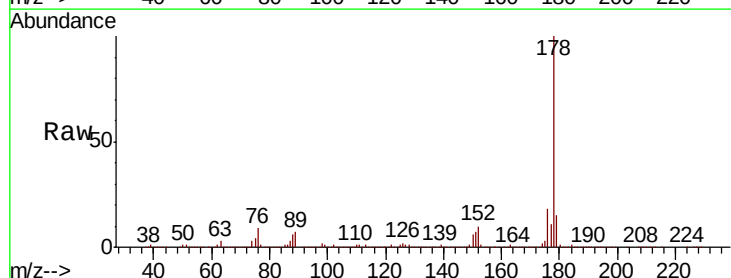
Tgt Ion:178 Resp: 2973194

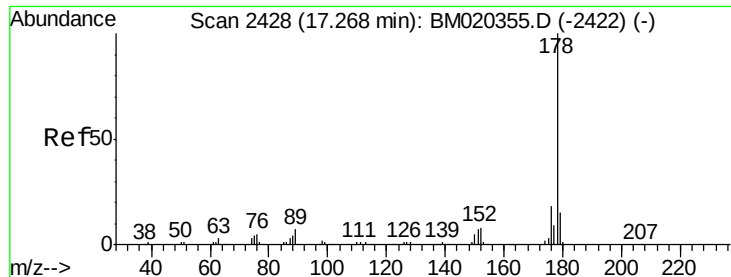
Ion Ratio Lower Upper

178 100

179 15.2 11.9 17.9

176 18.3 14.6 22.0

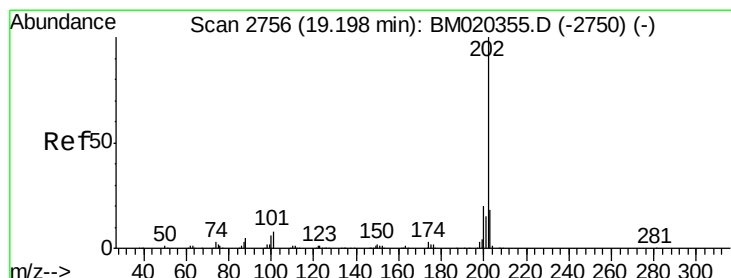
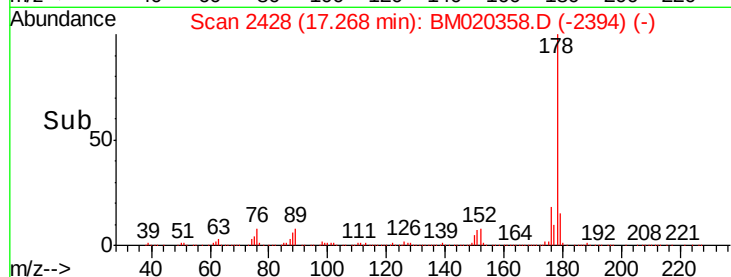
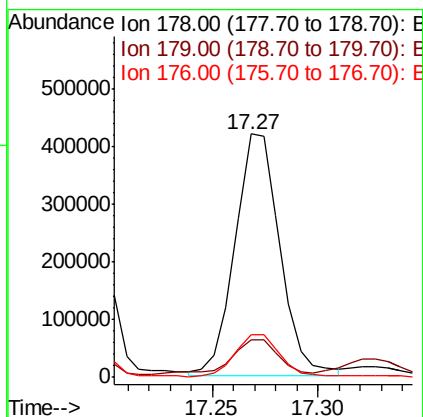
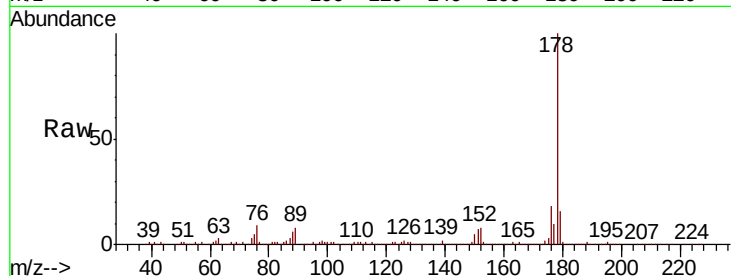




#71
 Anthracene
 Concen: 43.314 ng/ul
 RT: 17.27 min Scan# 2428
 Delta R.T. -0.00 min
 Lab File: BM020358.D
 Acq: 17 May 2019 10:57

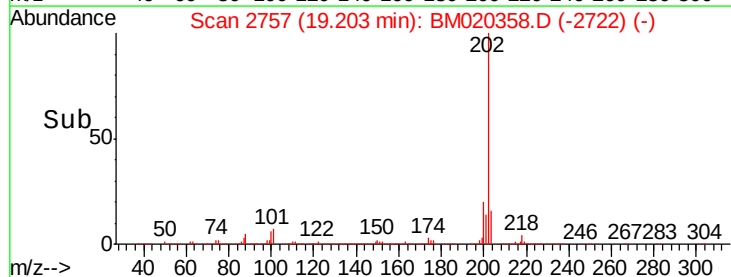
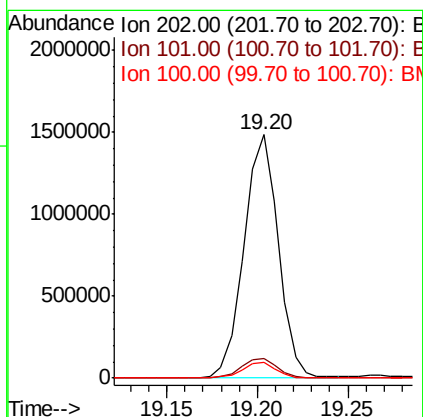
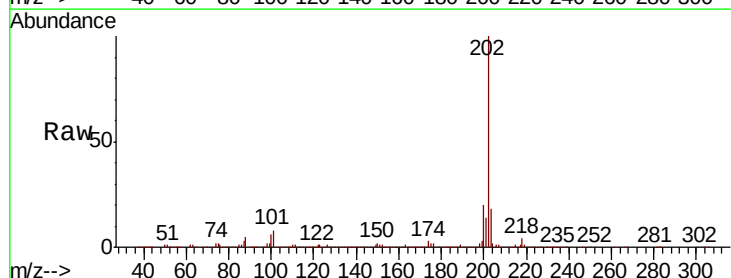
Instrument :
 BNA_M
 ClientSampleId :
 GAJ78ME

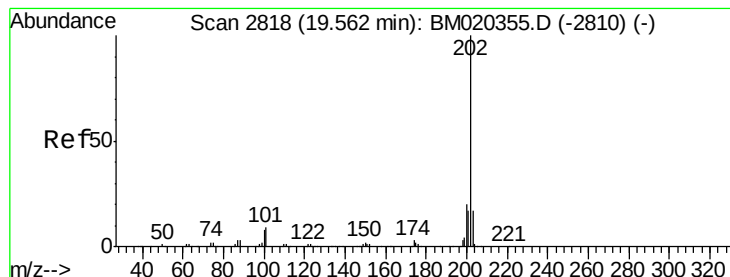
Tgt Ion:178 Resp: 623260
 Ion Ratio Lower Upper
 178 100
 179 15.5 12.4 18.6
 176 17.8 14.4 21.6



#76
 Fluoranthene
 Concen: 109.148 ng/ul
 RT: 19.20 min Scan# 2757
 Delta R.T. 0.01 min
 Lab File: BM020358.D
 Acq: 17 May 2019 10:57

Tgt Ion:202 Resp: 1950381
 Ion Ratio Lower Upper
 202 100
 101 8.1 6.4 9.6
 100 6.3 5.2 7.8





#79

Pyrene

Concen: 153.644 ng/ul

RT: 19.57 min Scan# 2820

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

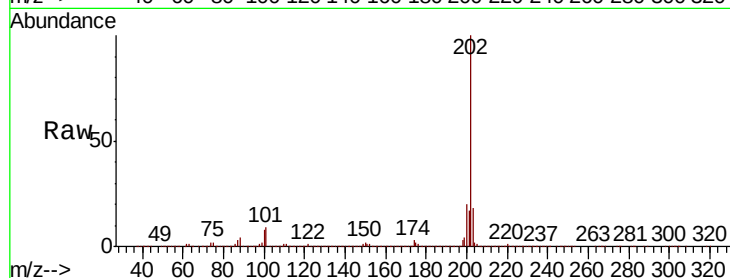
Tgt Ion:202 Resp: 2914932

Ion Ratio Lower Upper

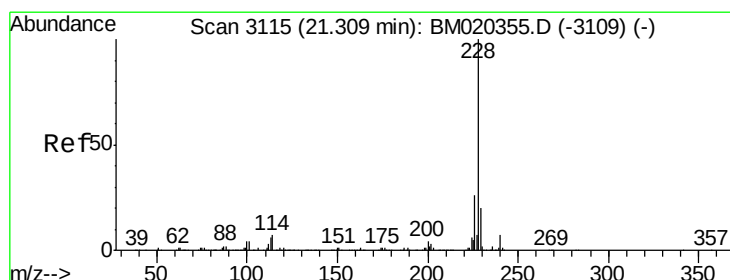
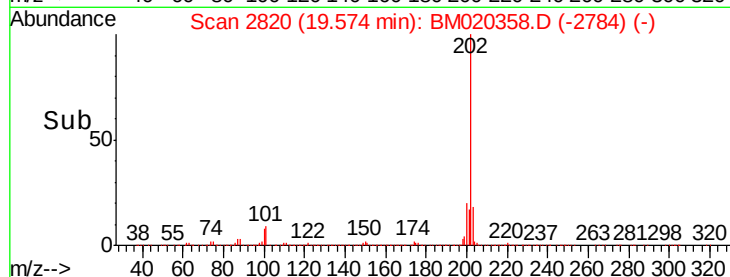
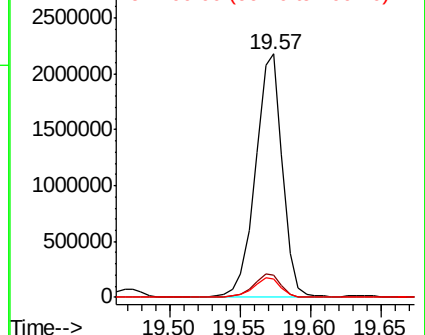
202 100

101 9.3 7.1 10.7

100 7.6 5.9 8.9



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



#82

Benzo(a)anthracene

Concen: 57.515 ng/ul

RT: 21.31 min Scan# 3116

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

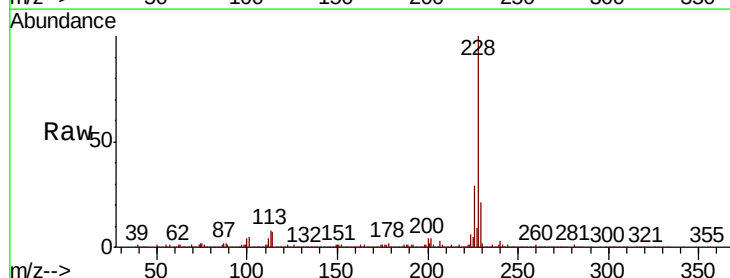
Tgt Ion:228 Resp: 1094182

Ion Ratio Lower Upper

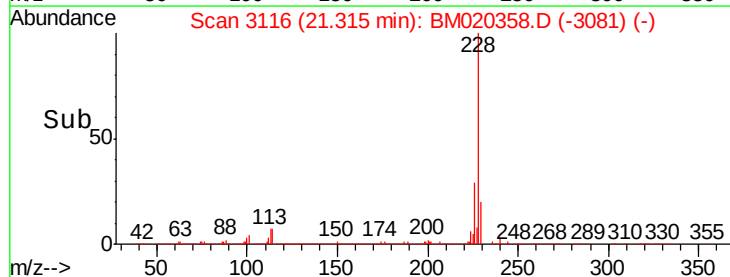
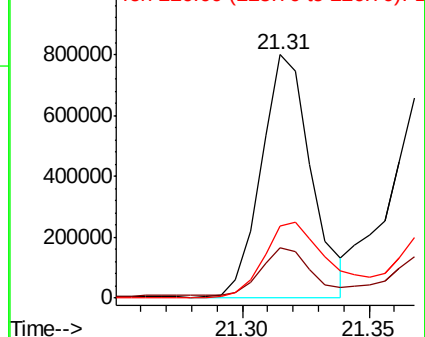
228 100

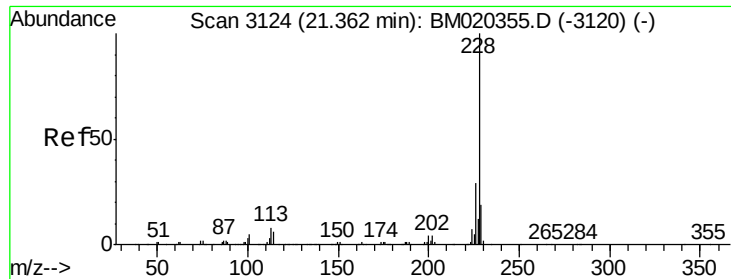
229 20.7 15.8 23.8

226 29.5 20.6 30.8



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





#84

Chrysene

Concen: 55.462 ng/ul

RT: 21.37 min Scan# 3125

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

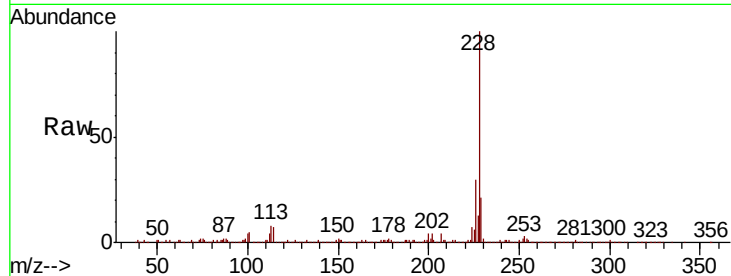
Tgt Ion:228 Resp: 1008345

Ion Ratio Lower Upper

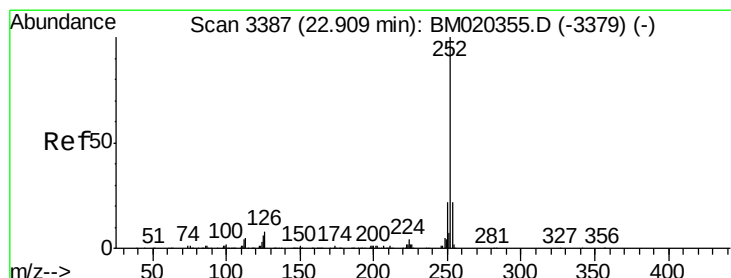
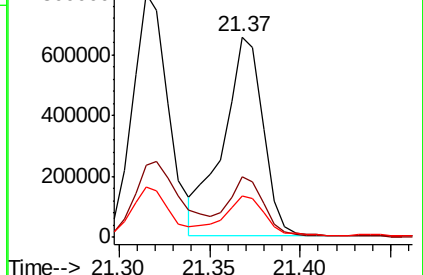
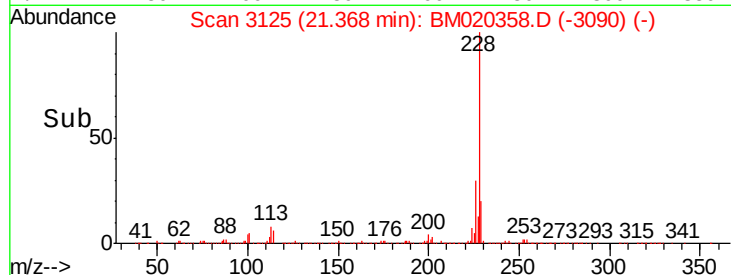
228 100

226 30.2 22.2 33.4

229 20.8 15.4 23.2



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



#87

Benzo(b)fluoranthene

Concen: 48.366 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

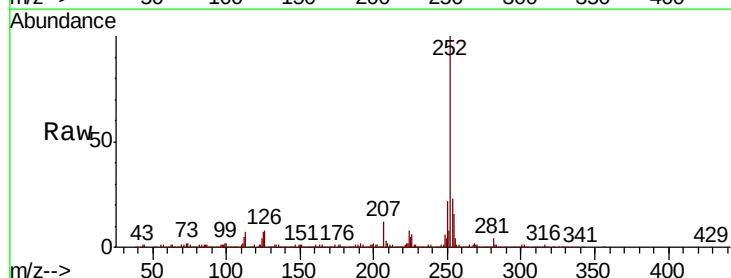
Tgt Ion:252 Resp: 1011173

Ion Ratio Lower Upper

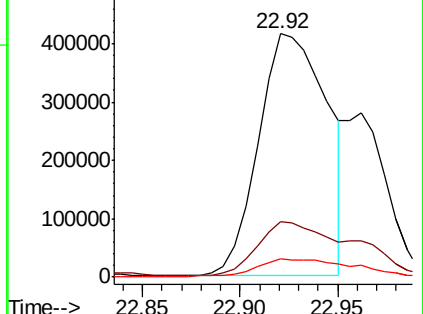
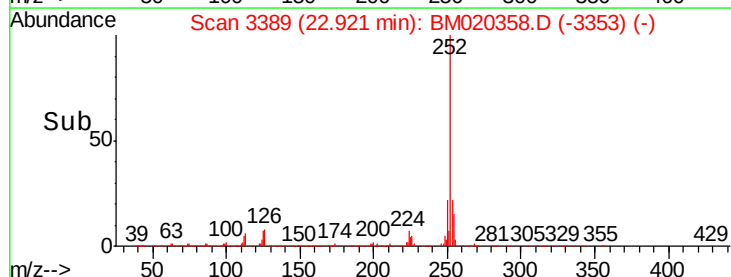
252 100

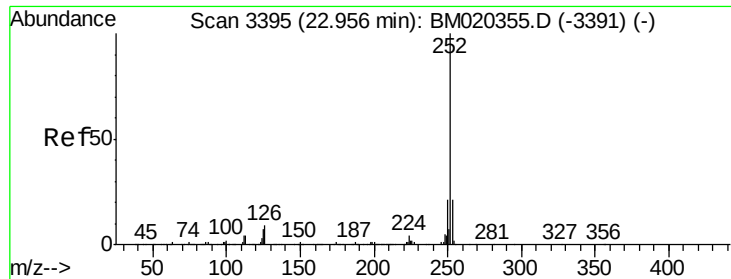
253 22.7 17.0 25.6

125 7.5 5.0 7.4#



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





#88

Benzo(k)fluoranthene

Concen: 49.241 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. -0.04 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

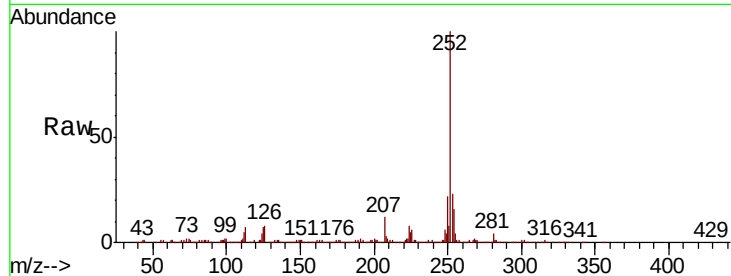
Tgt Ion:252 Resp: 1011173

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

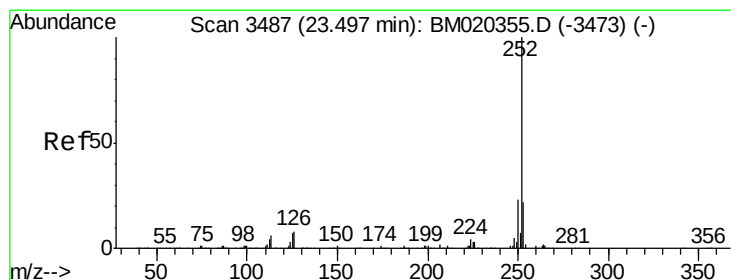
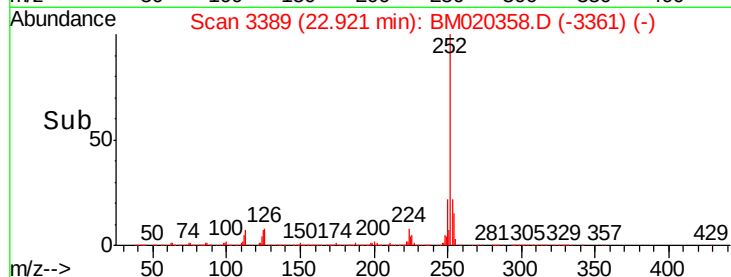
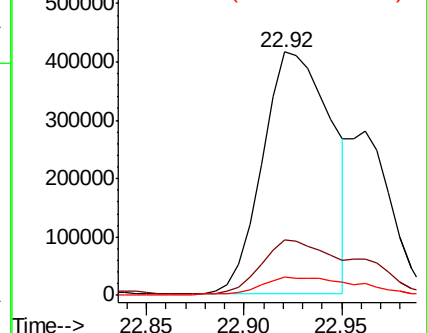
125 7.5 5.0 7.6



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



#90

Benzo(a)pyrene

Concen: 51.063 ng/ul

RT: 23.51 min Scan# 3490

Delta R.T. 0.02 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

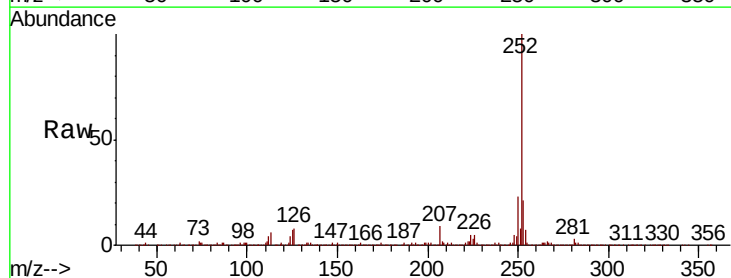
Tgt Ion:252 Resp: 1004669

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.2

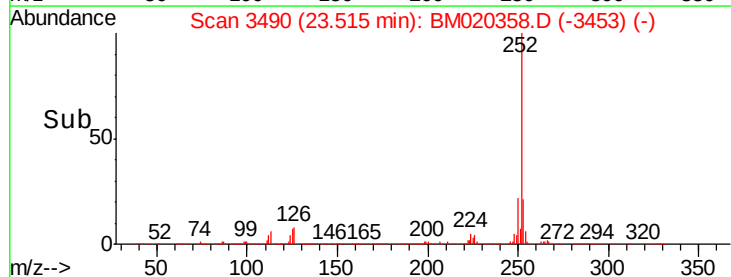
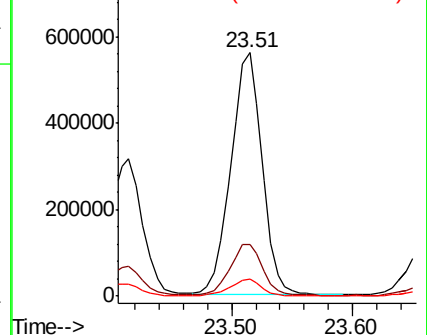
125 7.0 5.4 8.2

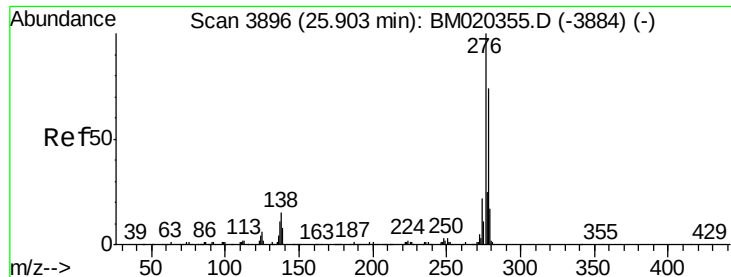


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



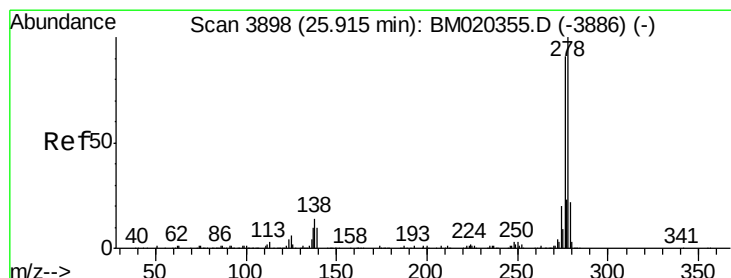
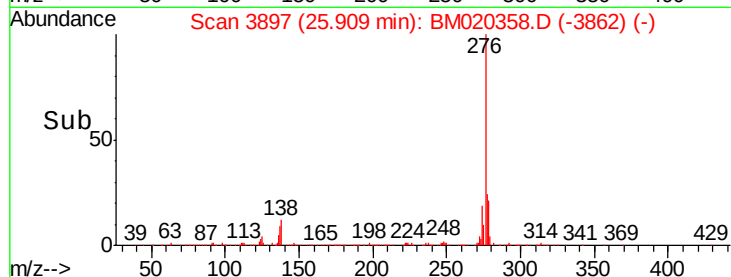
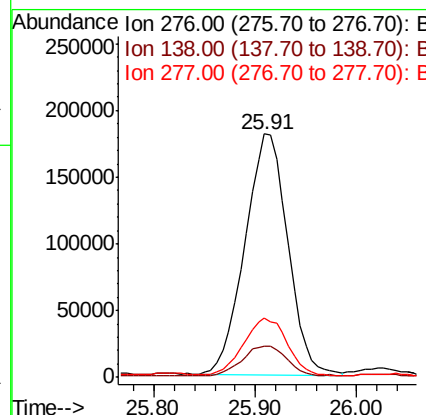
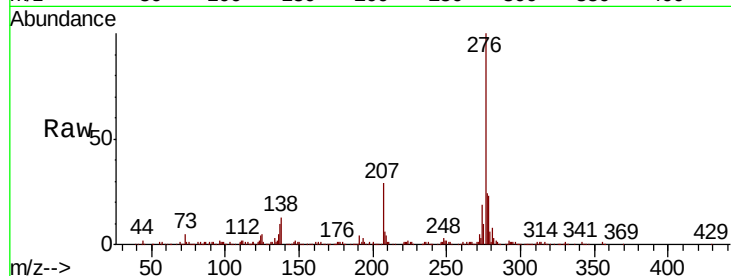


#91

Indeno(1,2,3-cd)pyrene
Concen: 23.705 ng/ul
RT: 25.91 min Scan# 3897
Delta R.T. 0.01 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Instrument :
BNA_M
ClientSampleId :
GAJ78ME

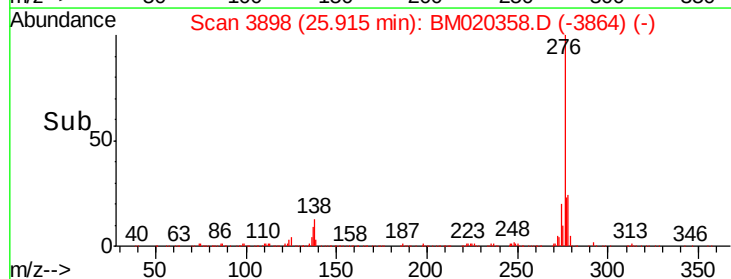
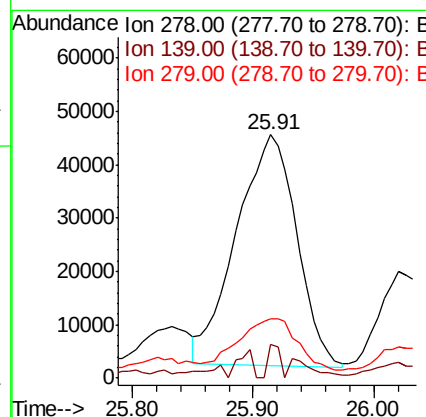
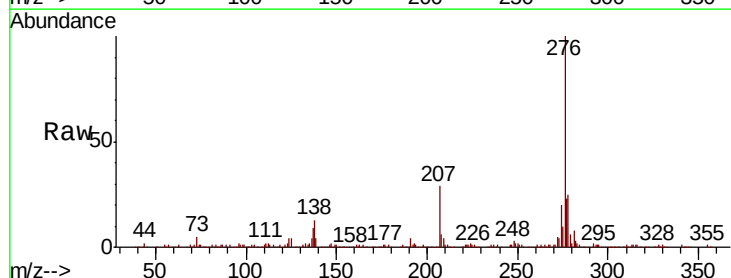
Tgt Ion	Ratio	Lower	Upper
276	100		
138	12.7	12.3	18.5
277	24.3	20.0	30.0

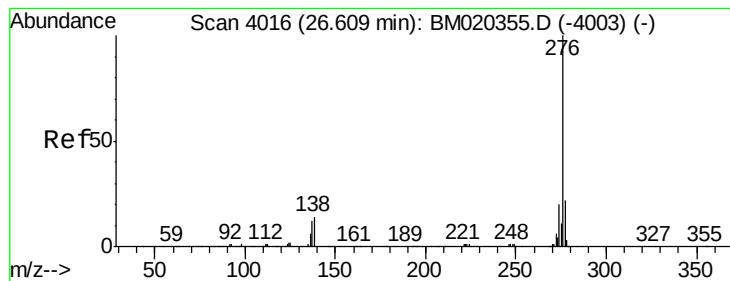


#92

Dibenzo(a,h)anthracene
Concen: 7.833 ng/ul
RT: 25.91 min Scan# 3898
Delta R.T. -0.00 min
Lab File: BM020358.D
Acq: 17 May 2019 10:57

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.0	8.1	12.1#
279	24.2	18.7	28.1





#93

Benzo(g,h,i)perylene

Concen: 25.342 ng/ul

RT: 26.62 min Scan# 4018

Delta R.T. 0.01 min

Lab File: BM020358.D

Acq: 17 May 2019 10:57

Instrument :

BNA_M

ClientSampleId :

GAJ78ME

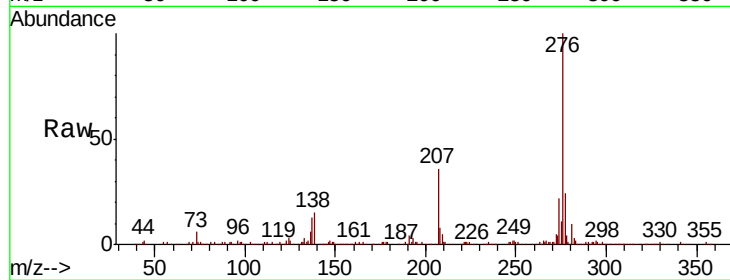
Tgt Ion: 276 Resp: 470290

Ion Ratio Lower Upper

276 100

138 14.7 10.0 15.0

277 24.1 18.2 27.4



Abundance Ion 276.00 (275.70 to 276.70): E

200000 Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

