

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\
 Data File : BM020410.D
 Acq On : 18 May 2019 22:04
 Operator : JU/SJ
 Sample : K2633-13 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 20 07:14:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 05:13:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	64620	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	239295	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.38	164	162667	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.14	188	378242	20.00	ng/ul	0.00
77) Chrysene-d12	21.33	240	434814	20.00	ng/ul	0.00
85) Perylene-d12	23.59	264	493677	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	1427	0.81	ng/uL	0.01
5) Phenol-d5	6.90	99	18026	3.50	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.07	67	13036	3.98	ng/ul	0.00
9) 2-Chlorophenol-d4	7.26	132	15218	4.03	ng/ul	0.00
13) 4-Methylphenol-d8	8.44	113	11742	3.13	ng/ul	0.00
19) Nitrobenzene-d5	8.90	128	6379	4.10	ng/ul	0.00
22) 2-Nitrophenol-d4	9.62	143	5364	3.12	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.15	165	13669	3.76	ng/ul	0.00
29) 4-Chloroaniline-d4	10.68	131	4758	1.27	ng/ul	0.01
43) Dimethylphthalate-d6	13.79	166	57421	4.91	ng/ul	0.00
46) Acenaphthylene-d8	14.07	160	66059	4.51	ng/ul	0.00
51) 4-Nitrophenol-d4	14.60	143	1787	1.05	ng/ul	0.00
57) Fluorene-d10	15.37	176	52990	5.09	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.52	200	1559	0.72	ng/ul	0.01
70) Anthracene-d10	17.24	188	83725	5.16	ng/ul	0.00
78) Pyrene-d10	19.53	212	100583	4.80	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.44	264	106322	4.74	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.87	77	15844	3.588	ng/ul# 1
17) Hexachloroethane	8.82	117	19815	10.874	ng/ul# 1
30) 4-Chloroaniline	10.62	127	4525876	1180.022	ng/ul# 13
32) Caprolactam	11.52	113	1385	1.374	ng/ul# 62
34) 2-Methylnaphthalene	12.21	142	6577087	826.235	ng/ul 98
40) 1,1'-Biphenyl	13.21	154	1192642	102.414	ng/ul 99
44) Dimethylphthalate	13.84	163	15144	1.308	ng/ul 98
47) Acenaphthylene	14.10	152	1377757	99.802	ng/ul 98
49) Acenaphthene	14.44	153	331987	34.981	ng/ul 99
53) Dibenzofuran	14.78	168	419248	29.172	ng/ul 99
54) 2,4-Dinitrotoluene	14.77	165	9504	3.073	ng/ul# 1
58) Fluorene	15.44	166	2596307	225.508	ng/ul 100
60) 4-Nitroaniline	15.44	138	29102	15.757	ng/ul# 8
64) N-Nitrosodiphenylamine	15.63	169	19246	2.056	ng/ul# 36
69) Phenanthrene	17.27	178	3290928	182.603	ng/ul 99
71) Anthracene	17.27	178	3290928	179.513	ng/ul 100
74) Carbazole	17.54	167	132956	8.544	ng/ul 95
76) Fluoranthene	19.20	202	6560784	288.187	ng/ul 99
79) Pyrene	19.57	202	9185446	351.954	ng/ul 96
82) Benzo(a)anthracene	21.36	228	2800584	107.013	ng/ul 95
84) Chrysene	21.36	228	2821044	112.797	ng/ul 97
87) Benzo(b)fluoranthene	22.91	252	2469492	87.647	ng/ul 98
88) Benzo(k)fluoranthene	22.91	252	2469492	89.232	ng/ul 100

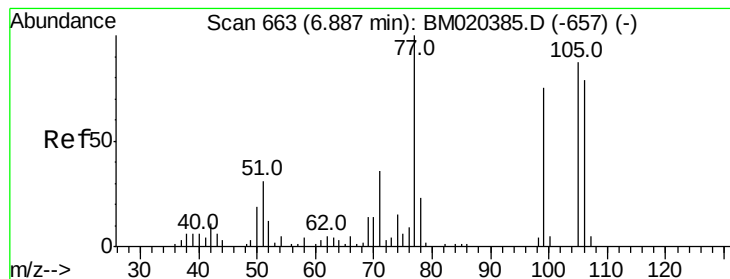
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\
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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.50	252	2734861	103.142	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.89	276	1161324	38.437	ng/ul	97
92) Dibenzo(a,h)anthracene	26.00	278	114377	4.427	ng/ul	94
93) Benzo(g,h,i)perylene	26.60	276	1058141	42.309	ng/ul	97

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



#4

Benzaldehyde

Concen: 3.588 ng/ul

RT: 6.87 min Scan# 660

Delta R.T. -0.02 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampled :

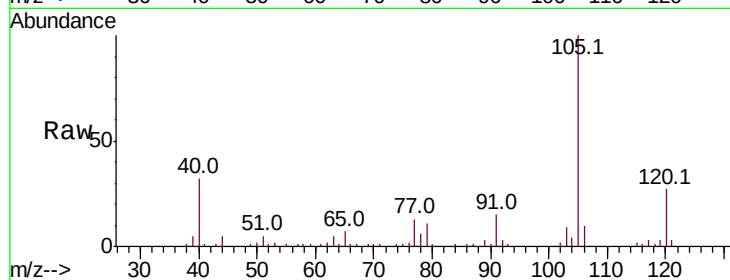
Tot Ion: 77 Resp: 15844

Ion Ratio Lower Upper

77 100

105 750.7 67.4 101.0#

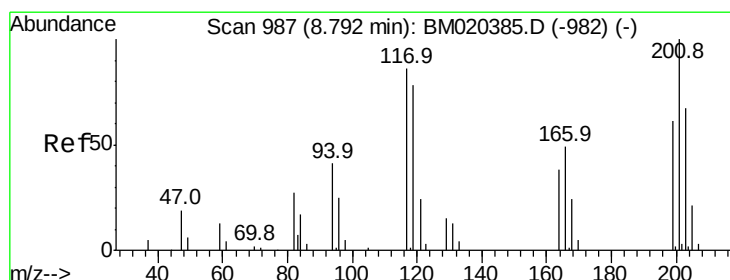
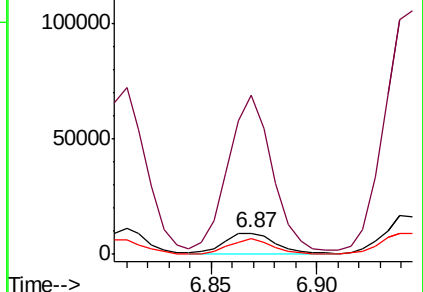
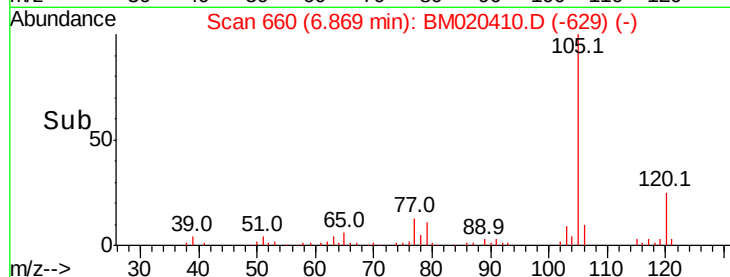
106 72.9 64.8 97.2



Abundance Ion 77.00 (76.70 to 77.70): BM020410.D (-629) (-)

Ion 105.00 (104.70 to 105.70): BM020410.D (-629) (-)

Ion 106.00 (105.70 to 106.70): BM020410.D (-629) (-)



#17

Hexachloroethane

Concen: 10.874 ng/ul

RT: 8.82 min Scan# 991

Delta R.T. 0.02 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

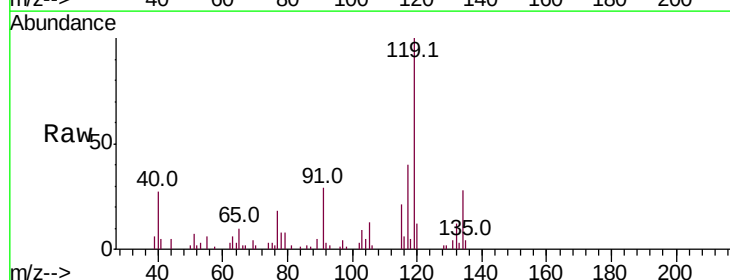
Tgt Ion: 117 Resp: 19815

Ion Ratio Lower Upper

117 100

201 0.0 102.4 153.6#

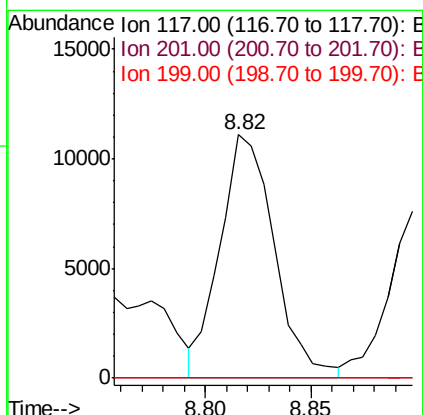
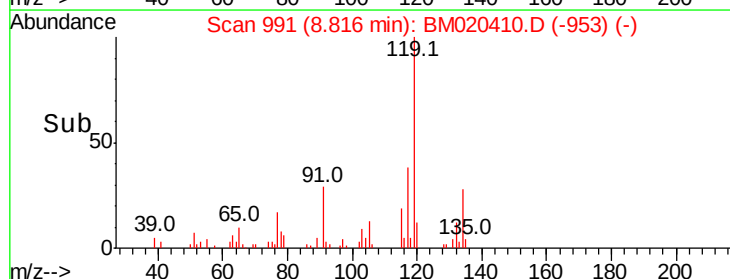
199 0.0 63.3 94.9#

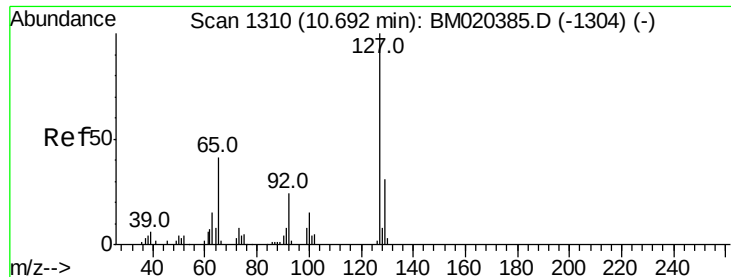


Abundance Ion 117.00 (116.70 to 117.70): BM020410.D (-953) (-)

Ion 201.00 (200.70 to 201.70): BM020410.D (-953) (-)

Ion 199.00 (198.70 to 199.70): BM020410.D (-953) (-)

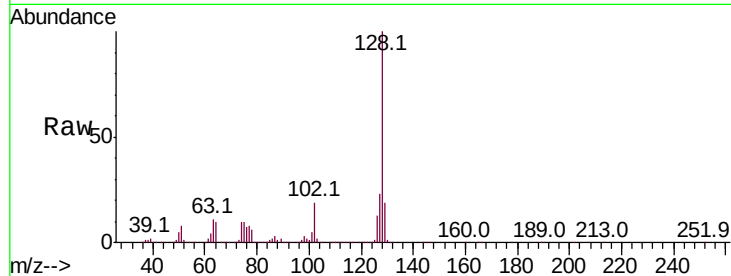




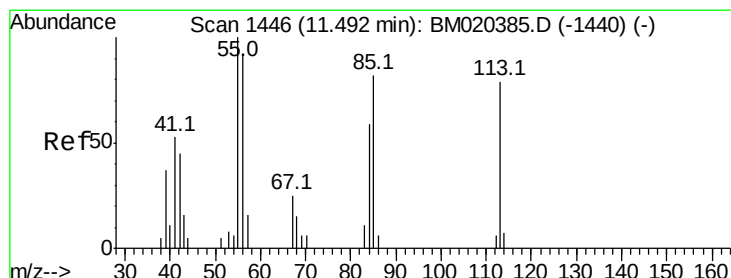
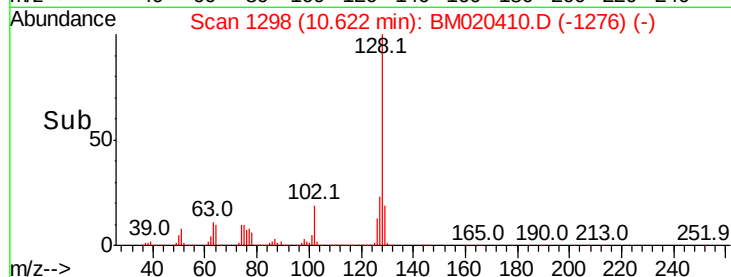
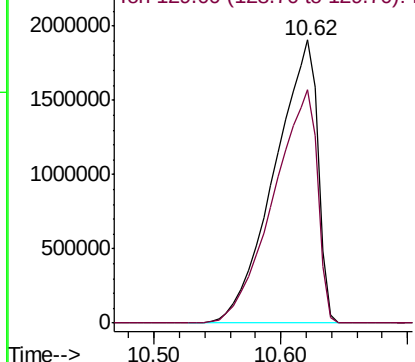
#30
4-Chloroaniline
Concen: 1180.022 ng/ul
RT: 10.62 min Scan# 1298
Delta R.T. -0.07 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Instrument :
BNA_M
ClientSampleId :

Tot Ion:127 Resp: 4525876
Ion Ratio Lower Upper
127 100
129 82.5 26.5 39.7#

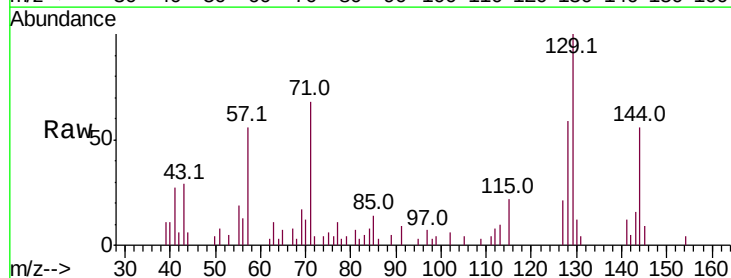


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

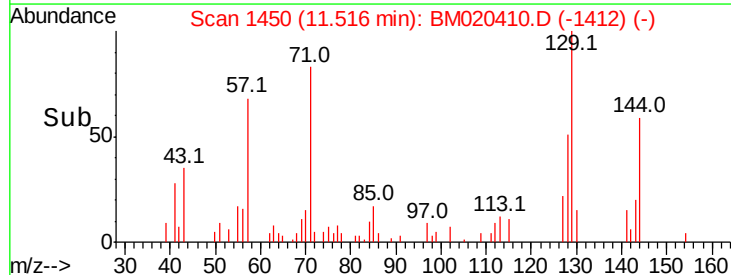
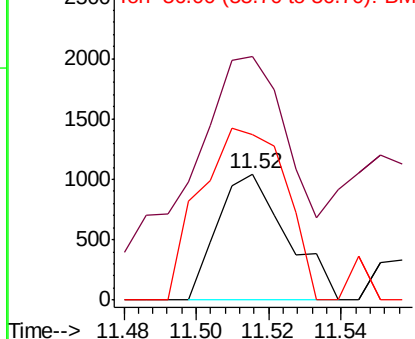


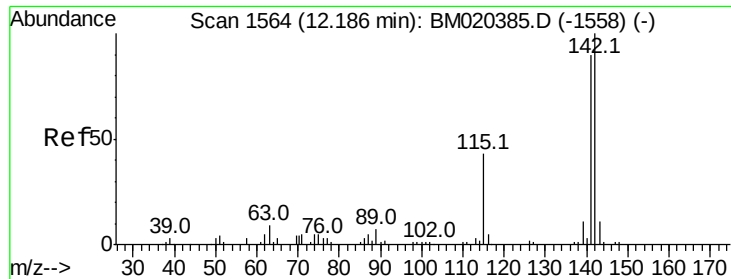
#32
Caprolactam
Concen: 1.374 ng/ul
RT: 11.52 min Scan# 1450
Delta R.T. 0.02 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Tgt Ion:113 Resp: 1385
Ion Ratio Lower Upper
113 100
55 193.3 104.6 156.8#
56 131.6 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

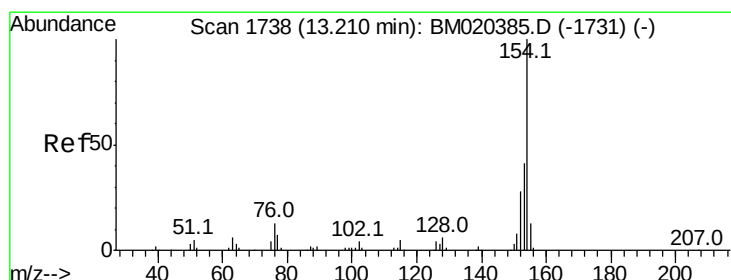
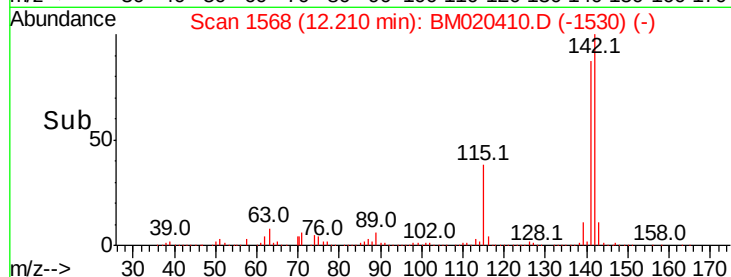
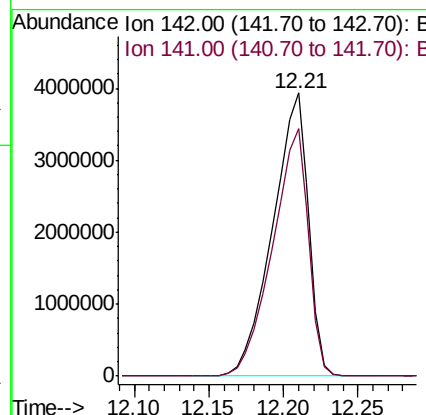
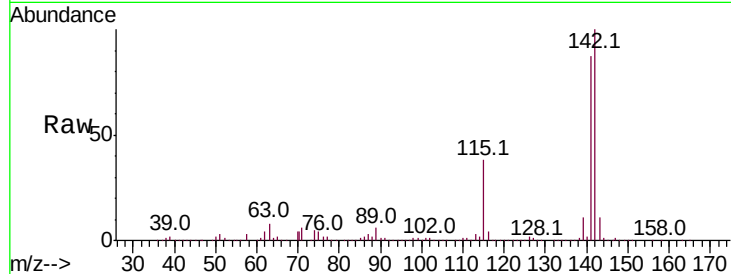




#34
 2-Methylnaphthalene
 Concen: 826.235 ng/ul
 RT: 12.21 min Scan# 1568
 Delta R.T. 0.02 min
 Lab File: BM020410.D
 Acq: 18 May 2019 22:04

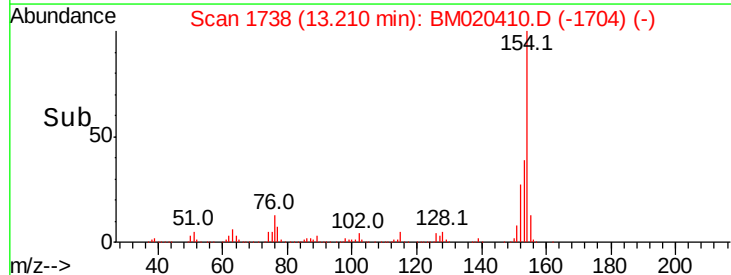
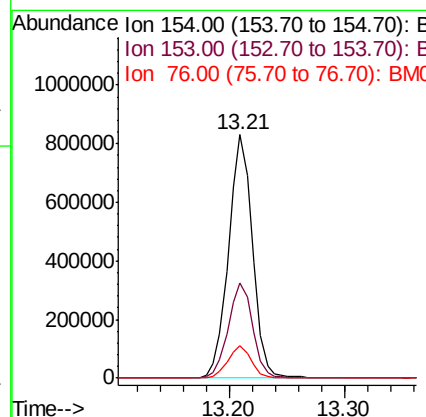
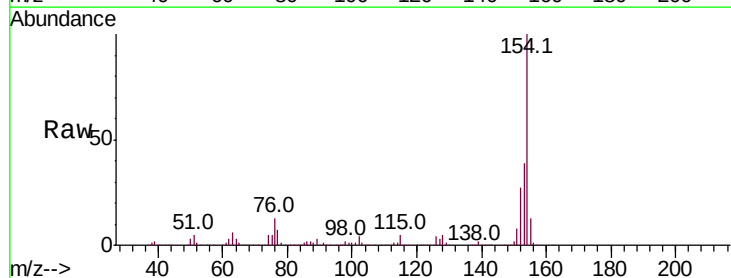
Instrument :
 BNA_M
 ClientSampleId :

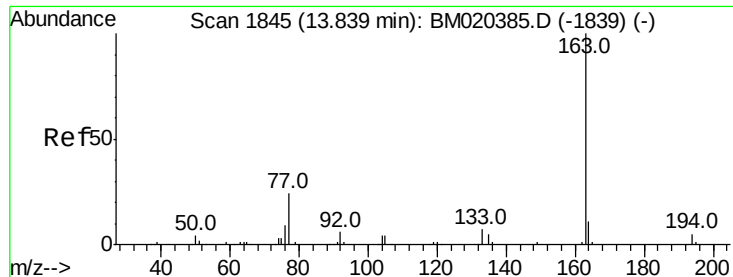
Tot Ion:142 Resp: 6577087
 Ion Ratio Lower Upper
 142 100
 141 87.2 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 102.414 ng/ul
 RT: 13.21 min Scan# 1738
 Delta R.T. -0.00 min
 Lab File: BM020410.D
 Acq: 18 May 2019 22:04

Tgt Ion:154 Resp: 1192642
 Ion Ratio Lower Upper
 154 100
 153 39.3 32.2 48.4
 76 13.4 11.0 16.4





#44

Dimethylphthalate

Concen: 1.308 ng/ul

RT: 13.84 min Scan# 1845

Delta R.T. -0.00 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampled :

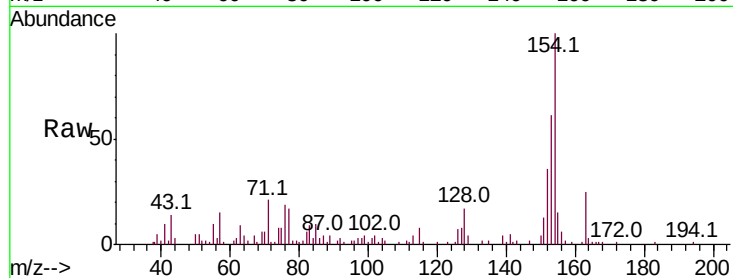
Tot Ion:163 Resp: 15144

Ion Ratio Lower Upper

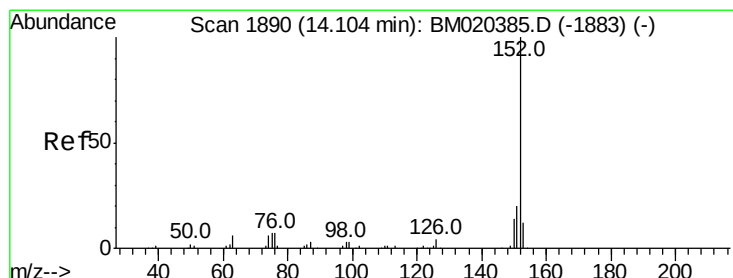
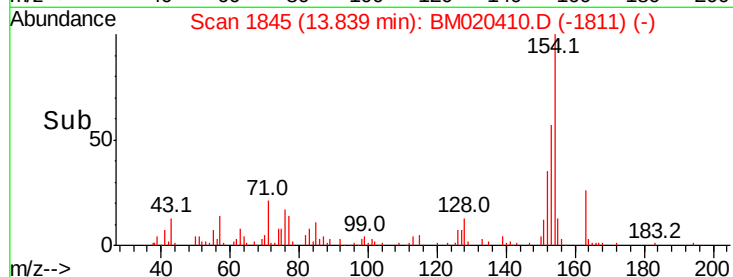
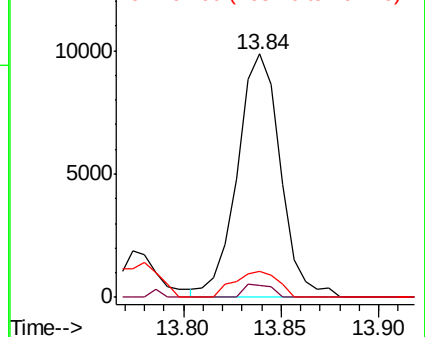
163 100

194 4.9 3.3 4.9

164 10.7 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: 99.802 ng/ul

RT: 14.10 min Scan# 1890

Delta R.T. -0.00 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

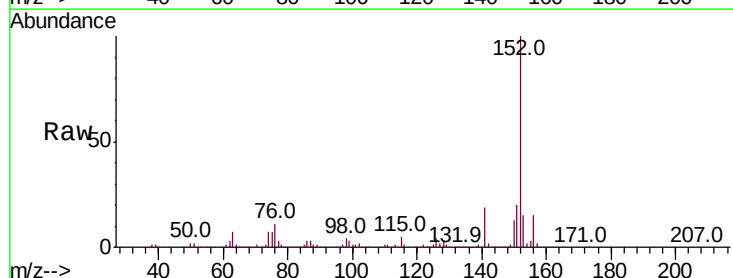
Tgt Ion:152 Resp: 1377757

Ion Ratio Lower Upper

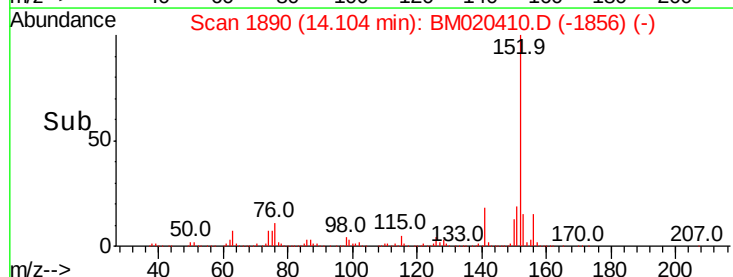
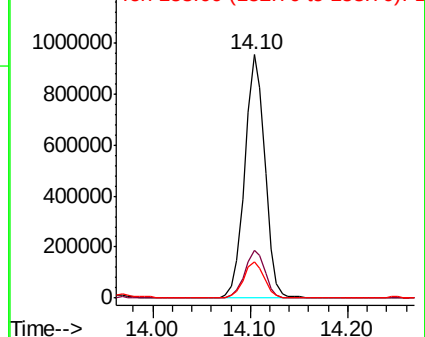
152 100

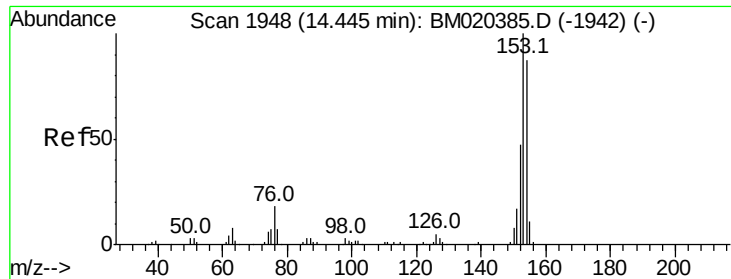
151 19.5 15.4 23.0

153 14.9 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: 34.981 ng/ul

RT: 14.44 min Scan# 1948

Delta R.T. -0.00 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampled :

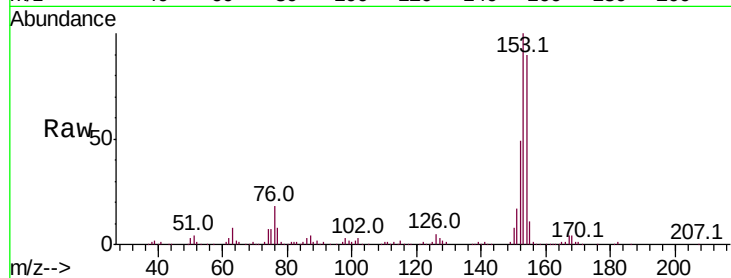
Tot Ion:153 Resp: 331987

Ion Ratio Lower Upper

153 100

152 48.7 37.9 56.9

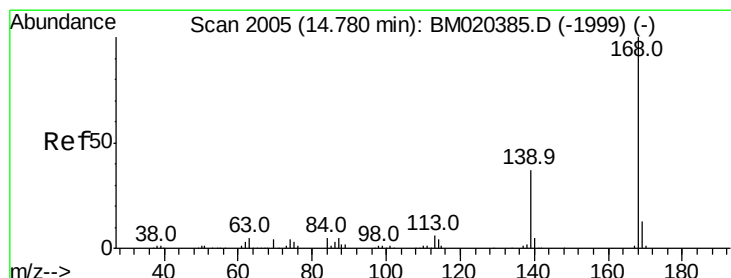
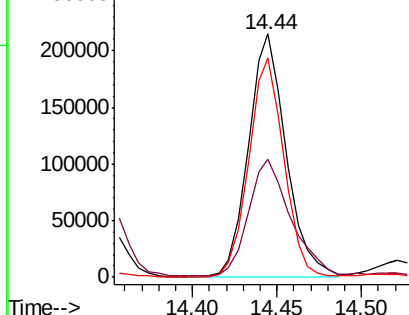
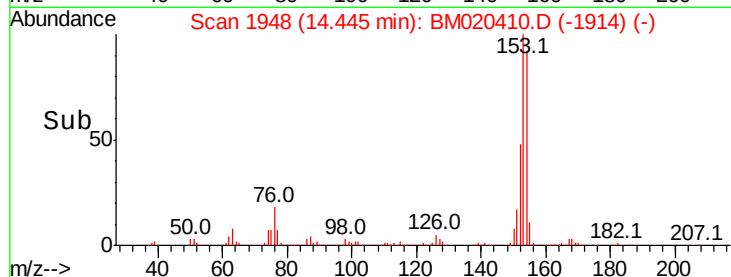
154 90.0 71.2 106.8



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: 29.172 ng/ul

RT: 14.78 min Scan# 2005

Delta R.T. -0.00 min

Lab File: BM020410.D

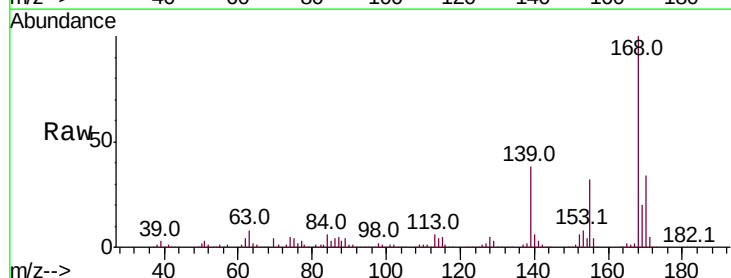
Acq: 18 May 2019 22:04

Tgt Ion:168 Resp: 419248

Ion Ratio Lower Upper

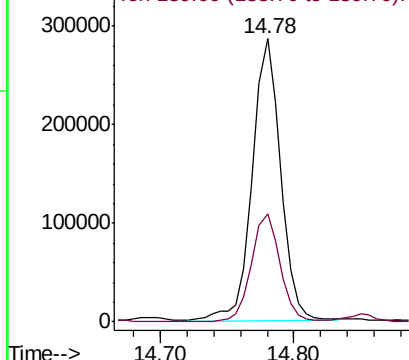
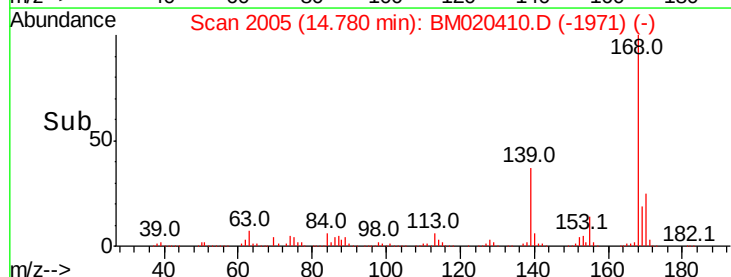
168 100

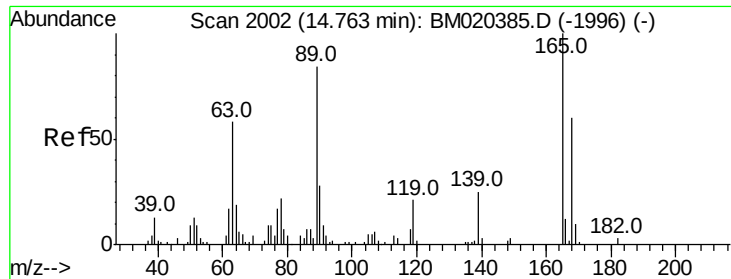
139 38.3 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

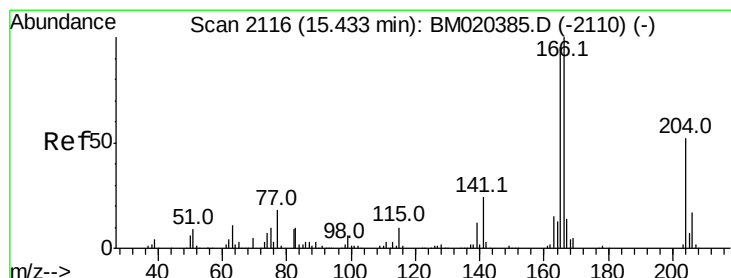
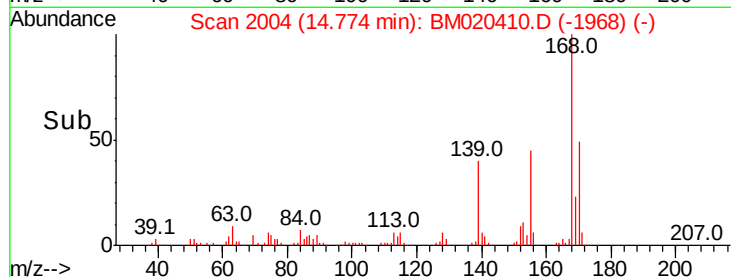
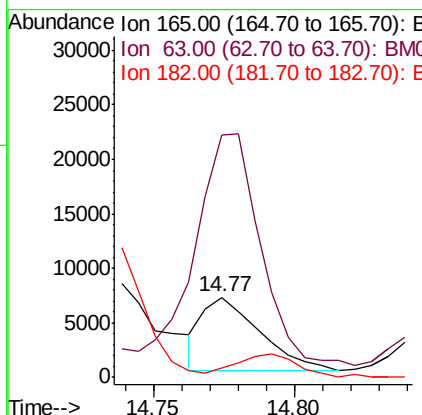
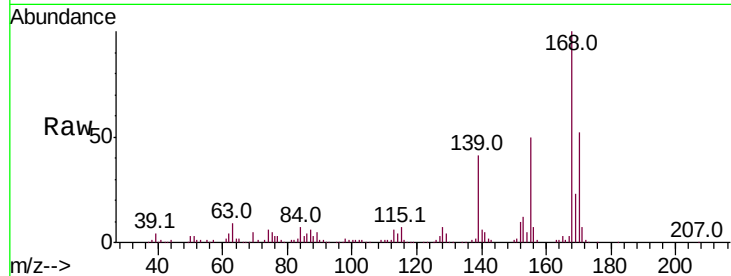




#54
 2,4-Dinitrotoluene
 Concen: 3.073 ng/ul
 RT: 14.77 min Scan# 2004
 Delta R.T. 0.01 min
 Lab File: BM020410.D
 Acq: 18 May 2019 22:04

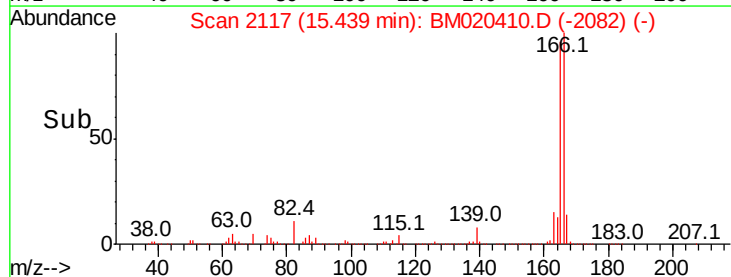
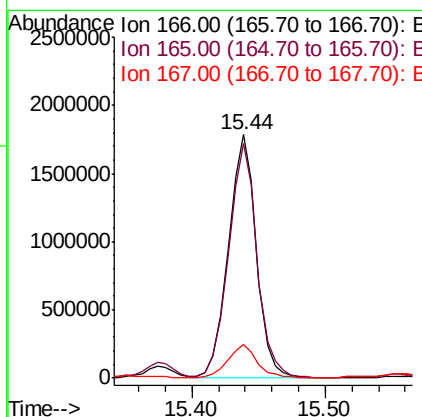
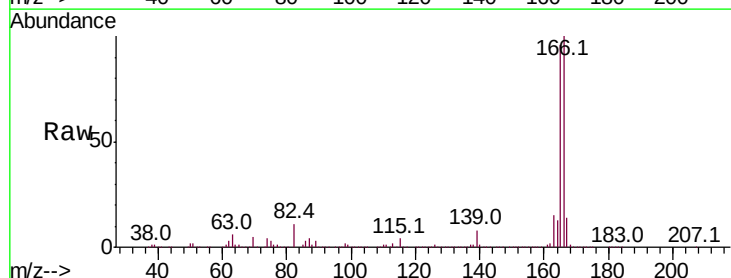
Instrument :
 BNA_M
 ClientSampled :

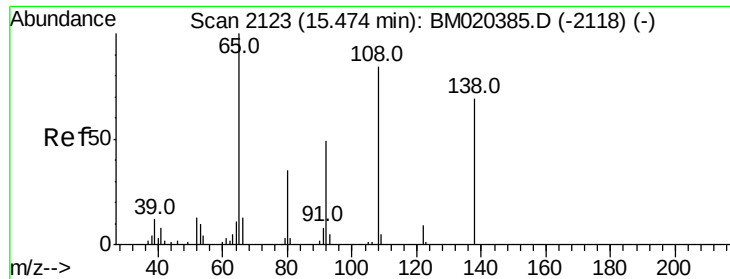
Tot Ion:165 Resp: 9504
 Ion Ratio Lower Upper
 165 100
 63 301.7 43.2 64.8#
 182 12.0 2.6 4.0#



#58
 Fluorene
 Concen: 225.508 ng/ul
 RT: 15.44 min Scan# 2117
 Delta R.T. 0.01 min
 Lab File: BM020410.D
 Acq: 18 May 2019 22:04

Tgt Ion:166 Resp: 2596307
 Ion Ratio Lower Upper
 166 100
 165 96.4 77.1 115.7
 167 13.8 11.1 16.7

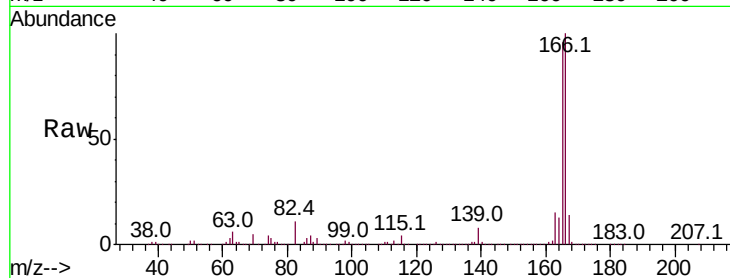




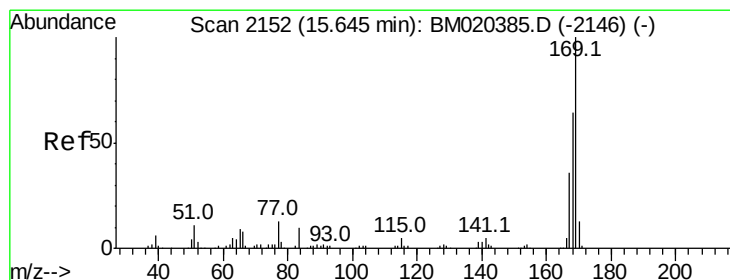
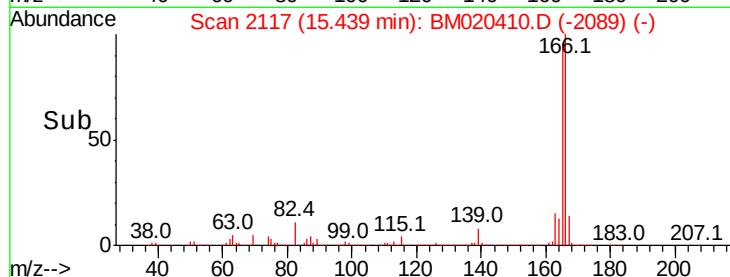
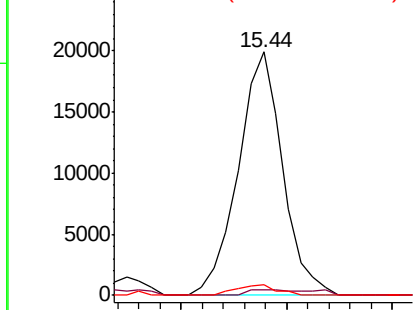
#60
4-Nitroaniline
Concen: 15.757 ng/ul
RT: 15.44 min Scan# 2117
Delta R.T. -0.04 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Instrument :
BNA_M
ClientSampled :

Tot Ion:138 Resp: 29102
Ion Ratio Lower Upper
138 100
92 2.5 52.2 78.4#
108 4.2 86.6 130.0#

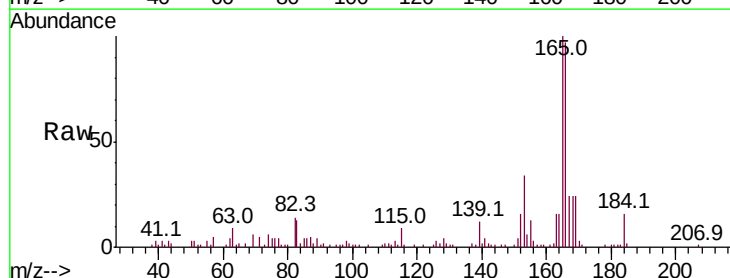


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BM0
Ion 108.00 (107.70 to 108.70): E

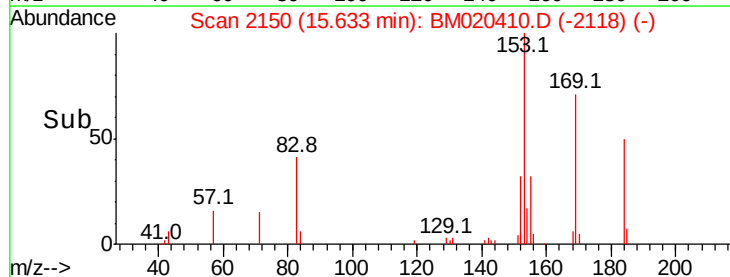
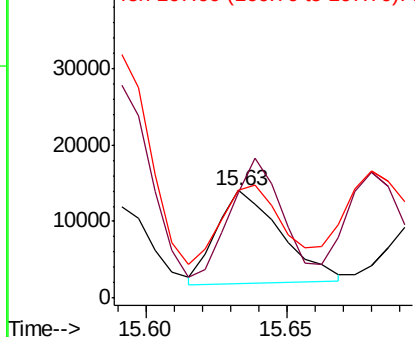


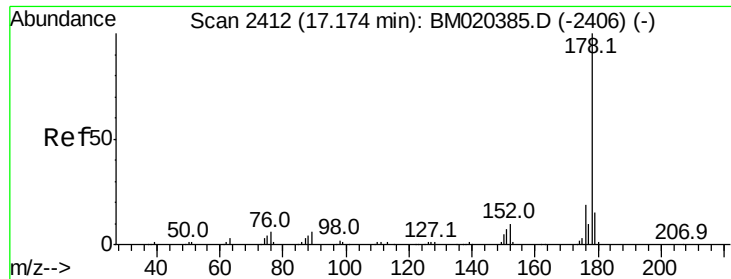
#64
N-Nitrosodiphenylamine
Concen: 2.056 ng/ul
RT: 15.63 min Scan# 2150
Delta R.T. -0.01 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Tgt Ion:169 Resp: 19246
Ion Ratio Lower Upper
169 100
168 97.3 53.2 79.8#
167 100.6 28.2 42.2#



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 182.603 ng/ul

RT: 17.27 min Scan# 2429

Delta R.T. 0.10 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampled :

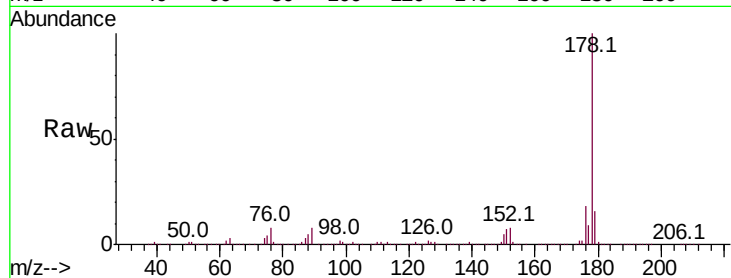
Tot Ion:178 Resp: 3290928

Ion Ratio Lower Upper

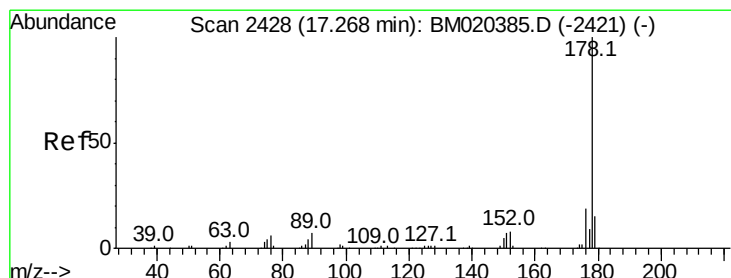
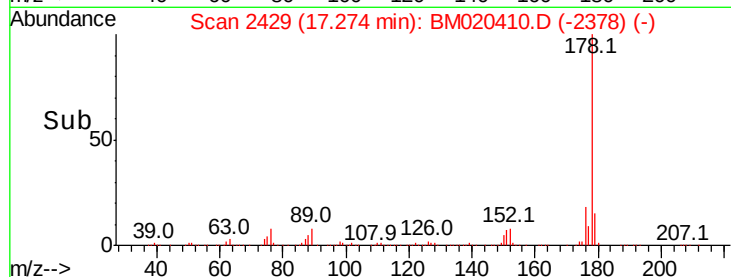
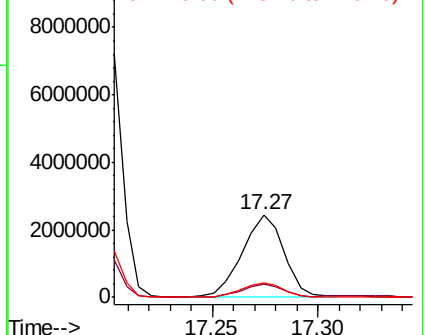
178 100

179 15.6 11.9 17.9

176 17.7 14.6 22.0



Abundance Ion 178.00 (177.70 to 178.70): E
1e+07
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 179.513 ng/ul

RT: 17.27 min Scan# 2429

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

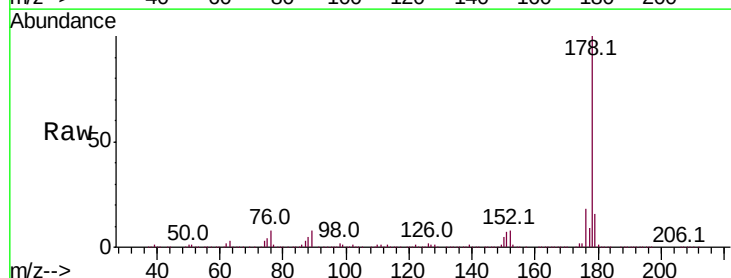
Tgt Ion:178 Resp: 3290928

Ion Ratio Lower Upper

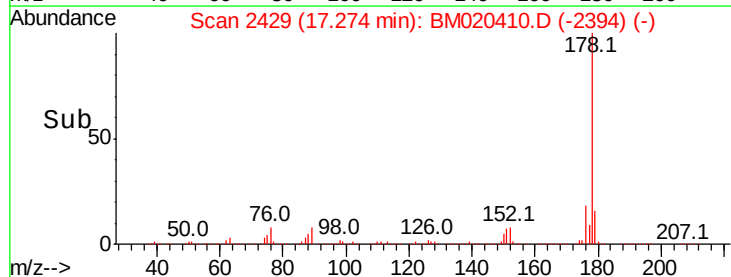
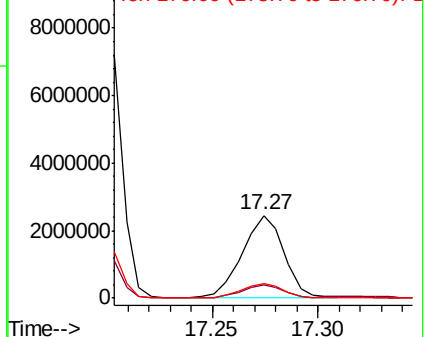
178 100

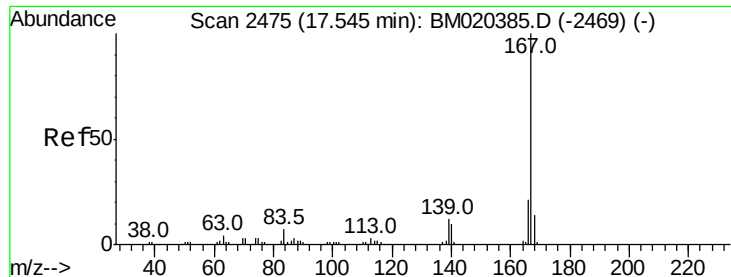
179 15.6 12.4 18.6

176 17.7 14.4 21.6



Abundance Ion 178.00 (177.70 to 178.70): E
1e+07
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 8.544 ng/ul

RT: 17.54 min Scan# 2475

Delta R.T. -0.00 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampleId :

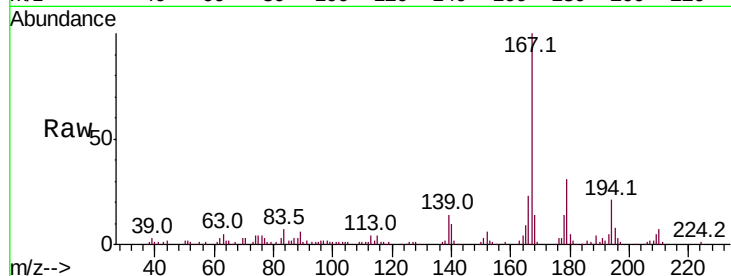
Tot Ion:167 Resp: 132956

Ion Ratio Lower Upper

167 100

166 23.5 16.6 24.8

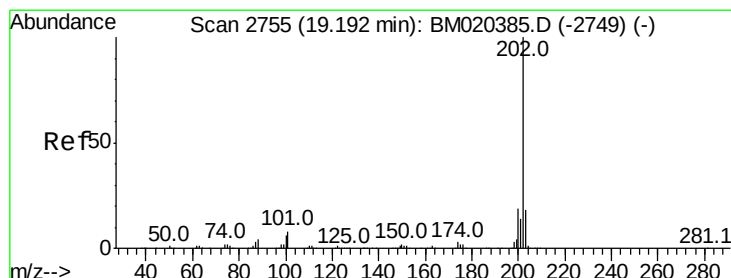
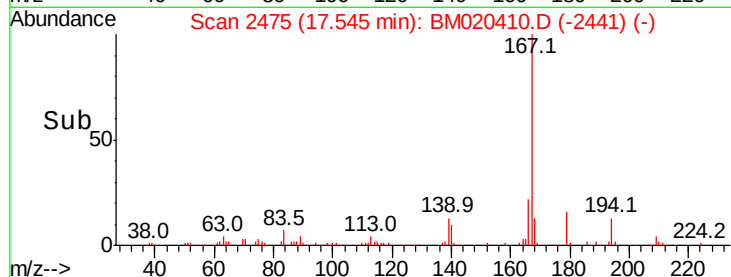
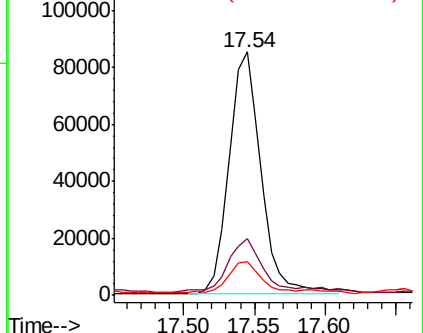
139 13.9 9.8 14.8



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



#76

Fluoranthene

Concen: 288.187 ng/ul

RT: 19.20 min Scan# 2757

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

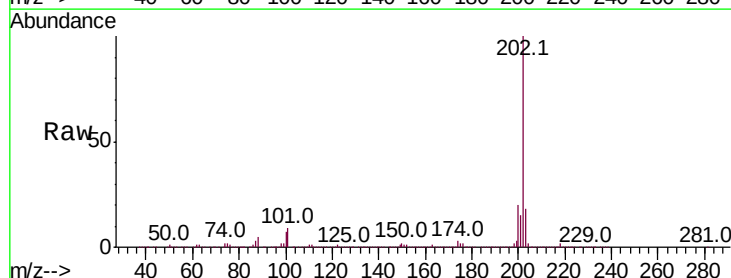
Tgt Ion:202 Resp: 6560784

Ion Ratio Lower Upper

202 100

101 8.6 6.4 9.6

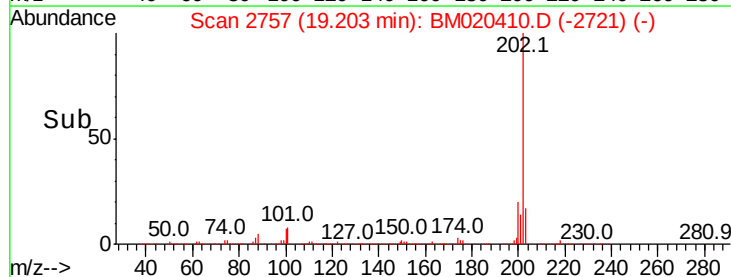
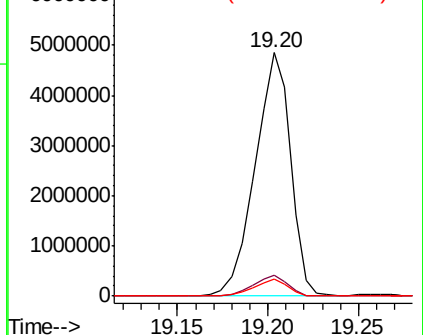
100 6.8 5.2 7.8

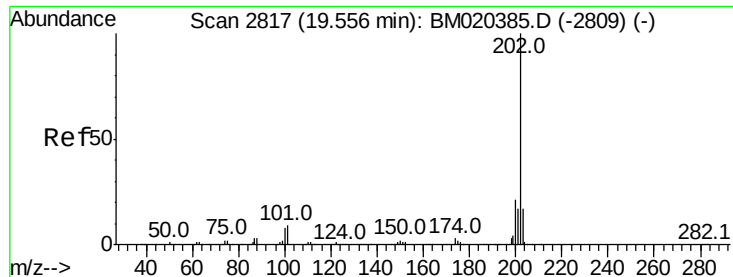


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

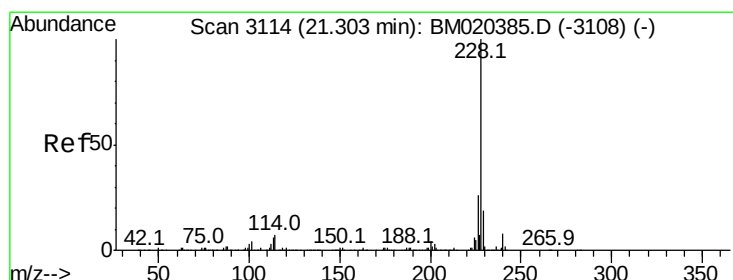
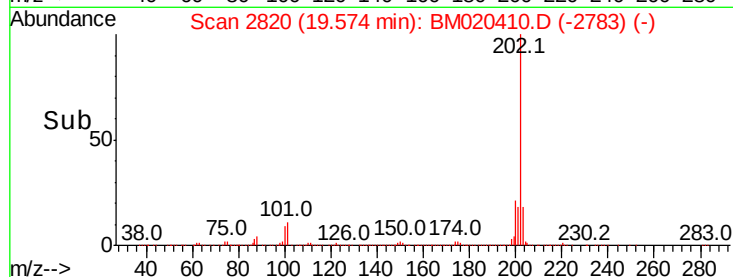
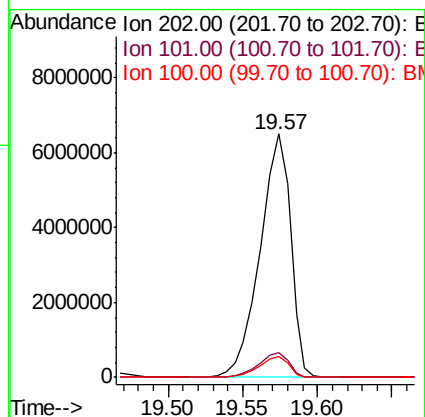
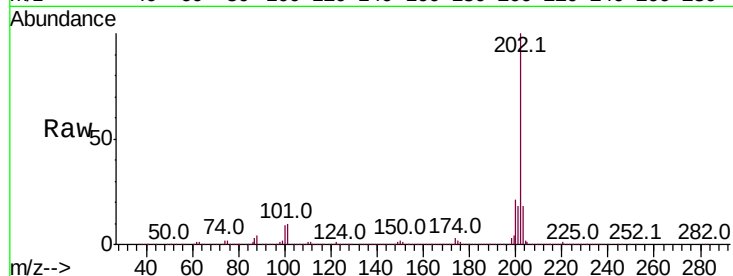




#79
Pvrene
Concen: 351.954 ng/ul
RT: 19.57 min Scan# 2820
Delta R.T. 0.02 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

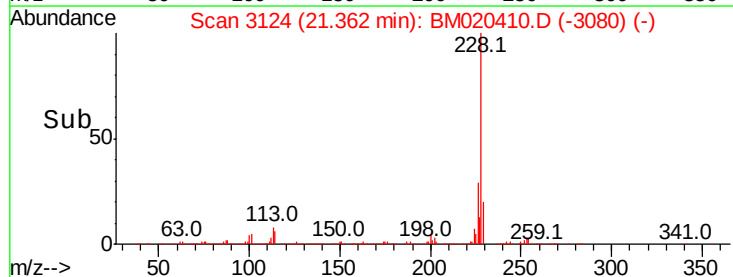
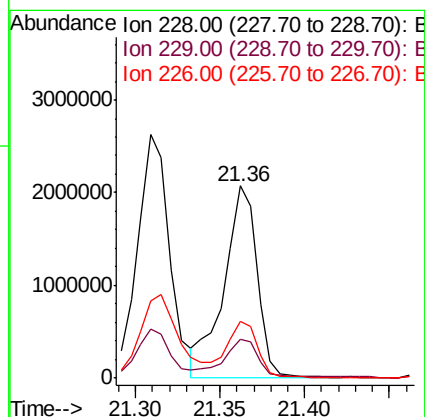
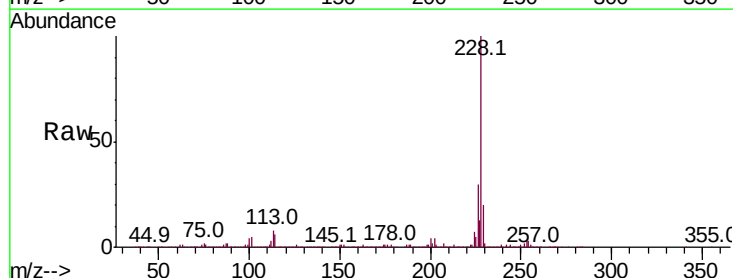
Instrument :
BNA_M
ClientSampled :

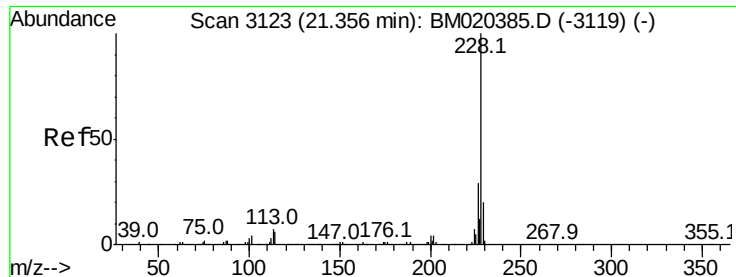
Tot Ion:202 Resp: 9185446
Ion Ratio Lower Upper
202 100
101 10.3 7.1 10.7
100 8.8 5.9 8.9



#82
Benzo(a)anthracene
Concen: 107.013 ng/ul
RT: 21.36 min Scan# 3124
Delta R.T. 0.06 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Tgt Ion:228 Resp: 2800584
Ion Ratio Lower Upper
228 100
229 20.5 15.8 23.8
226 29.7 20.6 30.8





#84

Chrysene

Concen: 112.797 ng/ul

RT: 21.36 min Scan# 3124

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampleId :

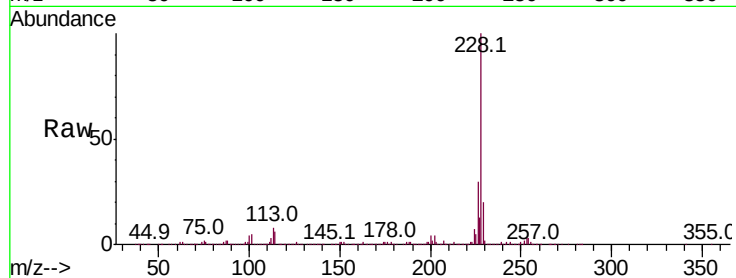
Tot Ion:228 Resp: 2821044

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.2	33.4
229	20.5	15.4	23.2

228 100

226 29.7 22.2 33.4

229 20.5 15.4 23.2

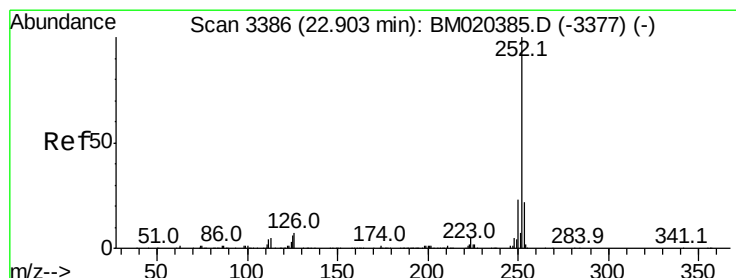
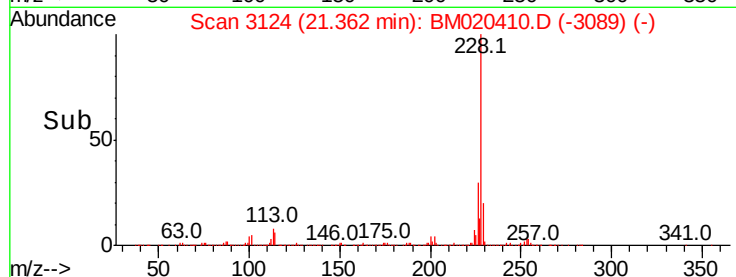
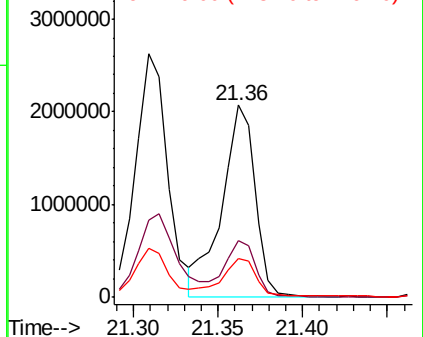


Abundance

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: 87.647 ng/ul

RT: 22.91 min Scan# 3388

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

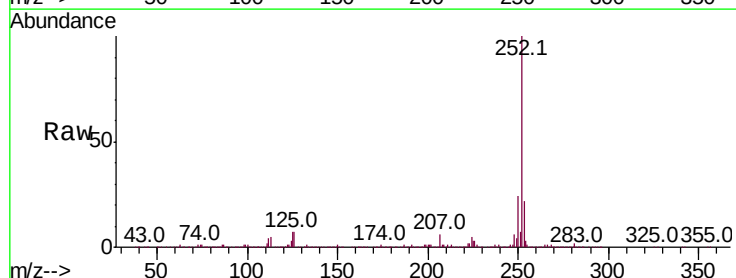
Tgt Ion:252 Resp: 2469492

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	6.9	5.0	7.4

252 100

253 22.0 17.0 25.6

125 6.9 5.0 7.4

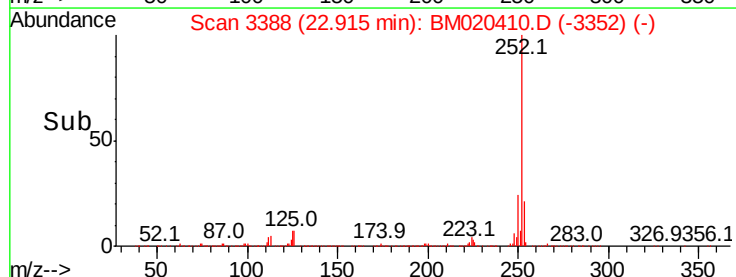
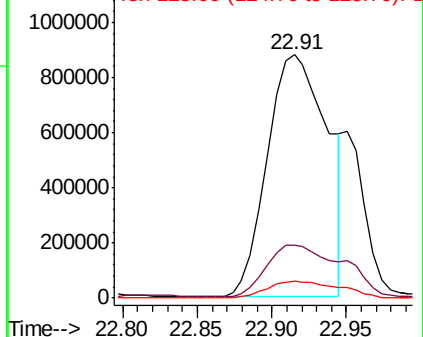


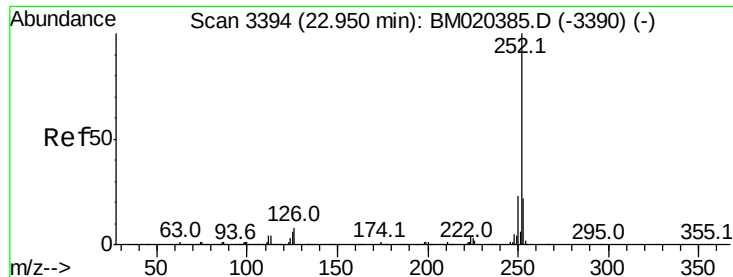
Abundance

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: 89.232 ng/ul

RT: 22.91 min Scan# 3388

Delta R.T. -0.04 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampleId :

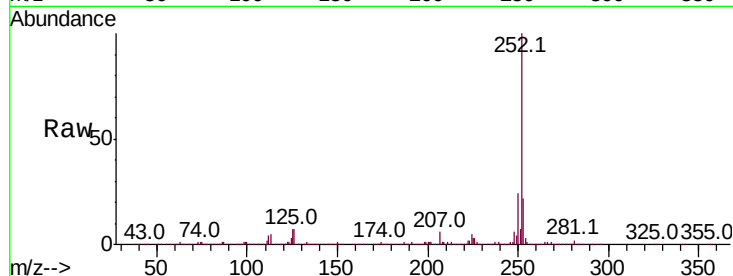
Tot Ion:252 Resp: 2469492

Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

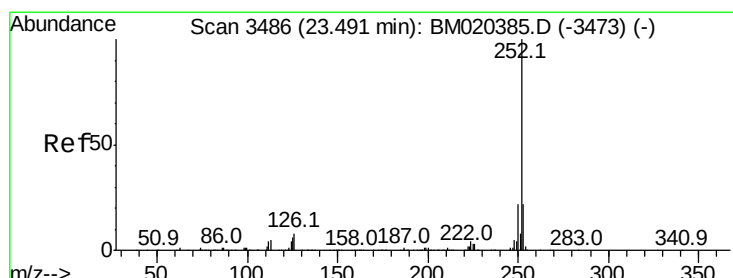
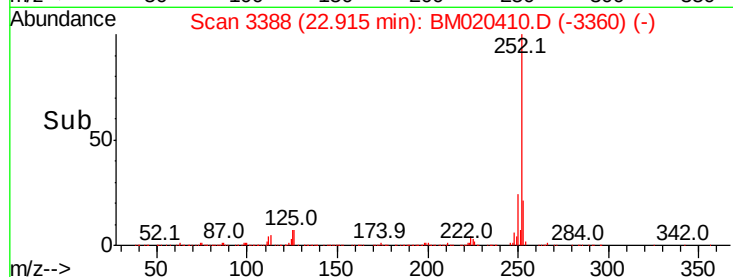
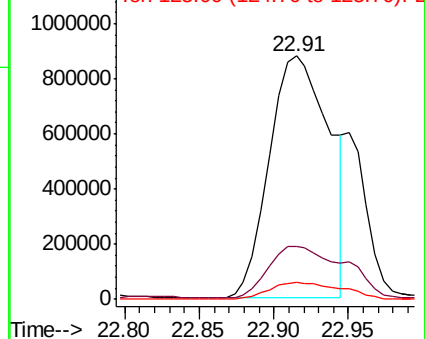
125 6.9 5.0 7.6



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: 103.142 ng/ul

RT: 23.50 min Scan# 3488

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

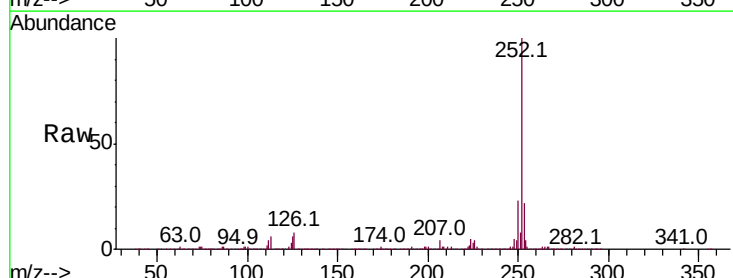
Tgt Ion:252 Resp: 2734861

Ion Ratio Lower Upper

252 100

253 22.1 17.4 26.2

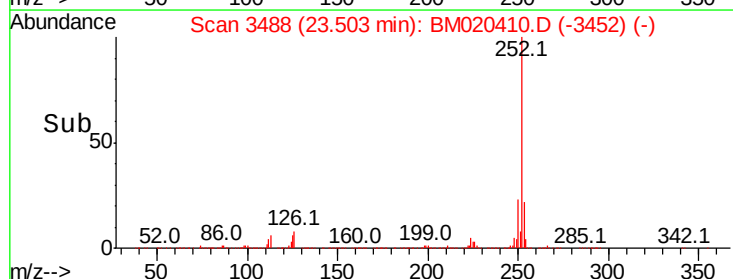
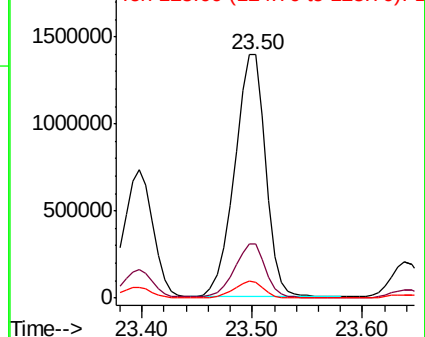
125 6.3 5.4 8.2

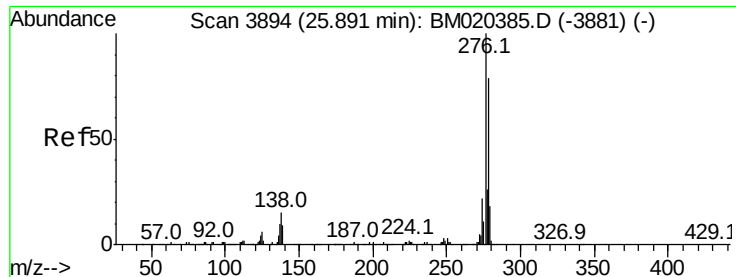


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



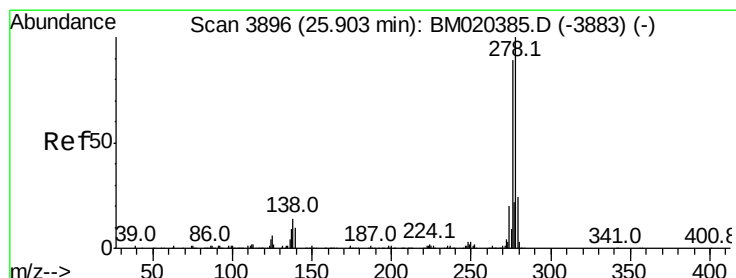
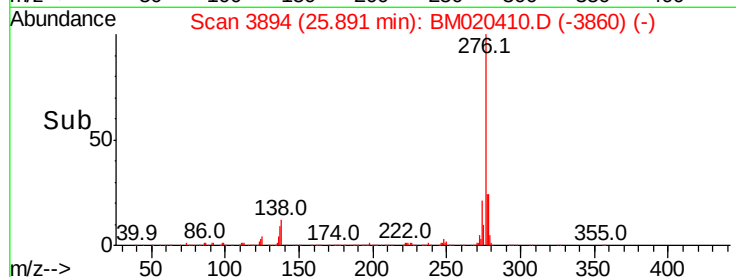
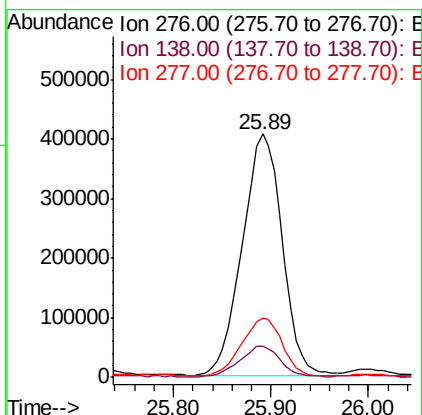
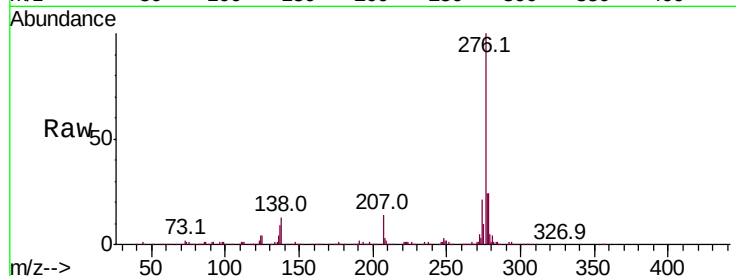


#91

Indeno(1,2,3-cd)pyrene
Concen: 38.437 ng/ul
RT: 25.89 min Scan# 3894
Delta R.T. -0.00 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Instrument :
BNA_M
ClientSampled :

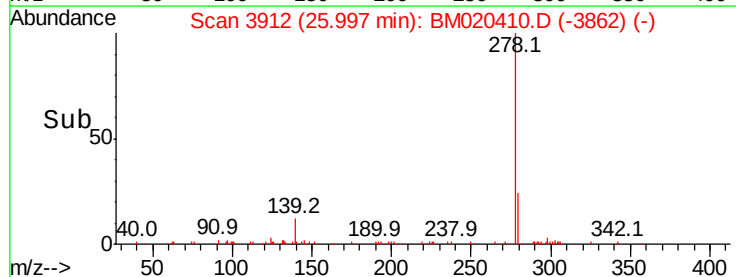
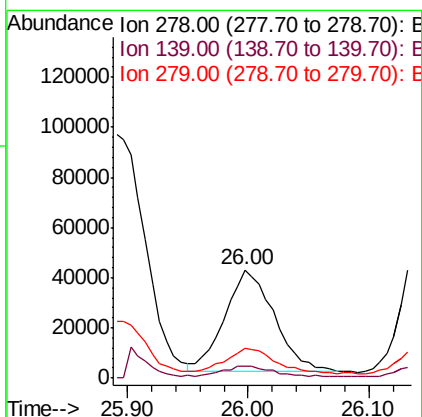
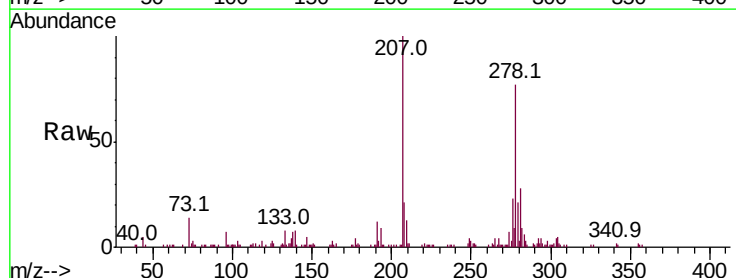
Tot Ion:276 Resp: 1161324
Ion Ratio Lower Upper
276 100
138 12.6 12.3 18.5
277 24.5 20.0 30.0

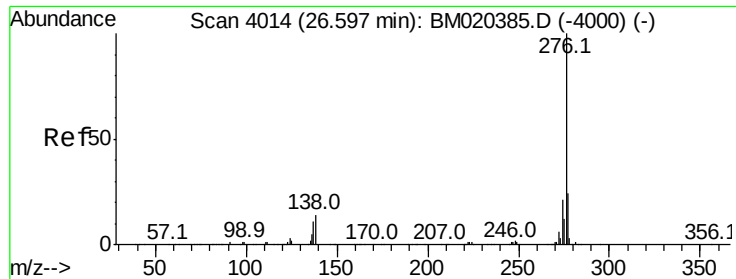


#92

Dibenzo(a,h)anthracene
Concen: 4.427 ng/ul
RT: 26.00 min Scan# 3912
Delta R.T. 0.09 min
Lab File: BM020410.D
Acq: 18 May 2019 22:04

Tgt Ion:278 Resp: 114377
Ion Ratio Lower Upper
278 100
139 10.9 8.1 12.1
279 27.3 18.7 28.1





#93

Benzo(a,h,i)perylene

Concen: 42.309 ng/ul

RT: 26.60 min Scan# 4015

Delta R.T. 0.01 min

Lab File: BM020410.D

Acq: 18 May 2019 22:04

Instrument :

BNA_M

ClientSampleId :

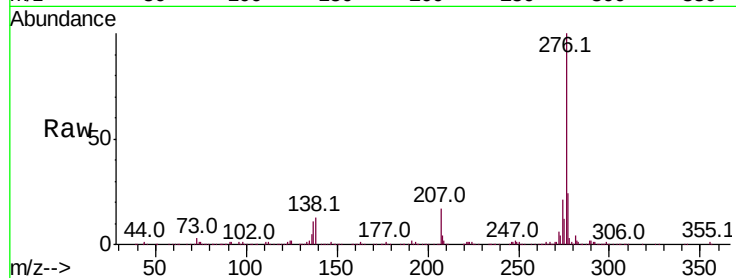
Tot Ion:276 Resp: 1058141

Ion Ratio Lower Upper

276 100

138 13.1 10.0 15.0

277 24.3 18.2 27.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

