

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM052019\
 Data File : BM020430.D
 Acq On : 20 May 2019 15:22
 Operator : JU/SJ
 Sample : K2633-13ME
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 GAJA5ME

Quant Time: May 21 02:23:41 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	68893	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	259546	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.39	164	148048	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.15	188	340544	20.00	ng/ul	0.01
77) Chrysene-d12	21.34	240	349446	20.00	ng/ul	0.02
85) Perylene-d12	23.62	264	404313	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.23	96	6493	3.48	ng/uL	0.00
5) Phenol-d5	6.90	99	92307	16.80	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.08	67	63052	18.05	ng/ul	0.00
9) 2-Chlorophenol-d4	7.27	132	74929	18.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.44	113	69928	17.47	ng/ul	0.00
19) Nitrobenzene-d5	8.90	128	33975	20.12	ng/ul	0.00
22) 2-Nitrophenol-d4	9.62	143	36456	19.57	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.15	165	73629	18.70	ng/ul	0.00
29) 4-Chloroaniline-d4	10.68	131	78021	19.18	ng/ul	0.01
43) Dimethylphthalate-d6	13.80	166	225651	21.18	ng/ul	0.00
46) Acenaphthylene-d8	14.08	160	264274	19.83	ng/ul	0.00
51) 4-Nitrophenol-d4	14.62	143	17264	11.16	ng/ul	0.02
57) Fluorene-d10	15.39	176	196024	20.69	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.53	200	8753	4.51	ng/ul	0.02
70) Anthracene-d10	17.25	188	299989	20.54	ng/ul	0.01
78) Pyrene-d10	19.54	212	337272	20.04	ng/ul	0.02
89) Benzo(a)pyrene-d12	23.48	264	348591	18.97	ng/ul	0.04

Target Compounds

					Qvalue	
4) Benzaldehyde	6.88	77	4882	1.037	ng/ul#	1
17) Hexachloroethane	8.83	117	5102	2.626	ng/ul#	1
28) Naphthalene	10.59	128	6789976	569.405	ng/ul	100
30) 4-Chloroaniline	10.59	127	892395	214.518	ng/ul#	10
34) 2-Methylnaphthalene	12.20	142	1376820	159.465	ng/ul	96
40) 1,1'-Biphenyl	13.22	154	279150	26.338	ng/ul	99
42) 2-Nitroaniline	13.55	65	2196	1.016	ng/ul#	29
44) Dimethylphthalate	13.85	163	65648	6.230	ng/ul	99
47) Acenaphthylene	14.11	152	349030	27.780	ng/ul	98
49) Acenaphthene	14.45	153	75984	8.797	ng/ul	97
53) Dibenzofuran	14.79	168	97374	7.444	ng/ul	97
54) 2,4-Dinitrotoluene	14.79	165	3193	1.134	ng/ul#	1
58) Fluorene	15.45	166	549477	52.439	ng/ul	100
60) 4-Nitroaniline	15.45	138	6379	3.795	ng/ul#	4
69) Phenanthrene	17.19	178	3095118	190.750	ng/ul	100
71) Anthracene	17.28	178	718818	43.550	ng/ul	99
74) Carbazole	17.56	167	27024	1.929	ng/ul#	93
76) Fluoranthene	19.21	202	1350698	65.898	ng/ul	100
79) Pyrene	19.57	202	1798595	85.752	ng/ul	96
82) Benzo(a)anthracene	21.38	228	583296	27.733	ng/ul	95
83) Bis(2-ethylhexyl)phthalate	21.23	149	10092	1.057	ng/ul#	97
84) Chrysene	21.38	228	583296	29.020	ng/ul	97
87) Benzo(b)fluoranthene	22.94	252	492161	21.329	ng/ul	98

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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

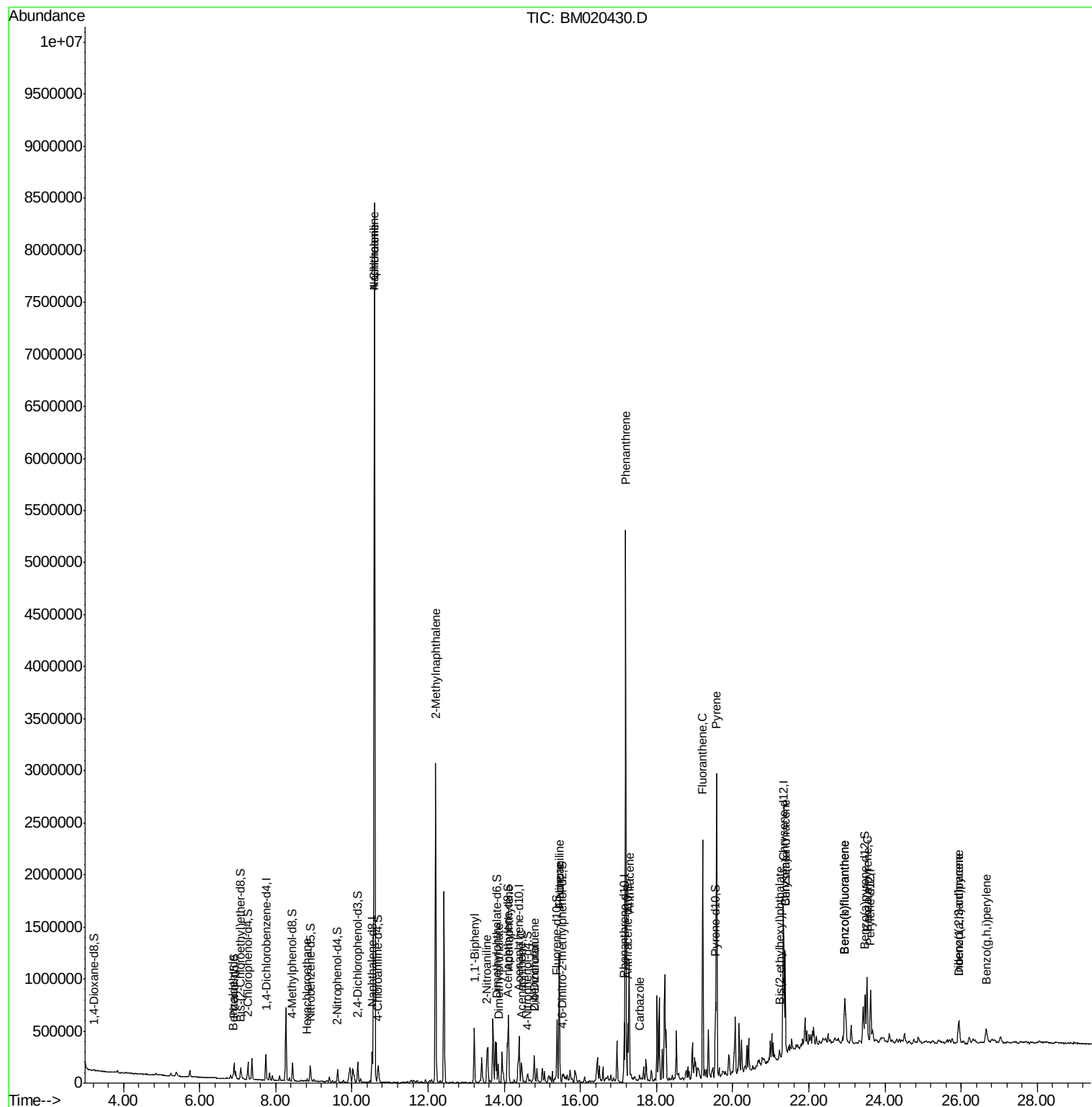
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(k)fluoranthene	22.94	252	492161	21.714	ng/ul	99
90) Benzo(a)pyrene	23.53	252	510386	23.503	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.94	276	224469	9.072	ng/ul	98
92) Dibenzo(a,h)anthracene	25.94	278	65459	3.093	ng/ul#	92
93) Benzo(g,h,i)perylene	26.66	276	171306	8.363	ng/ul	97

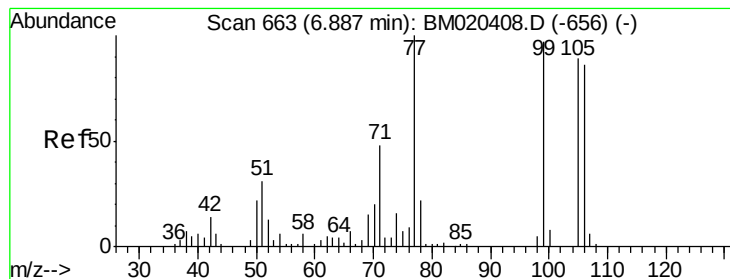
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.037 ng/ul

RT: 6.88 min Scan# 661

Delta R.T. -0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

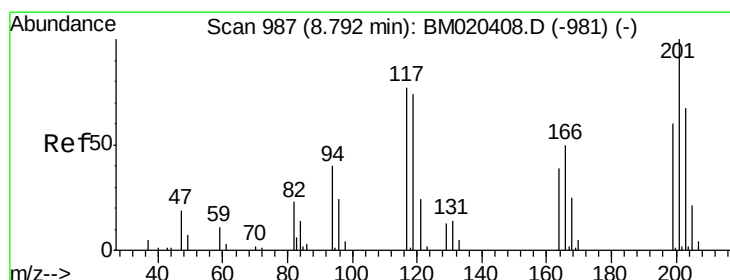
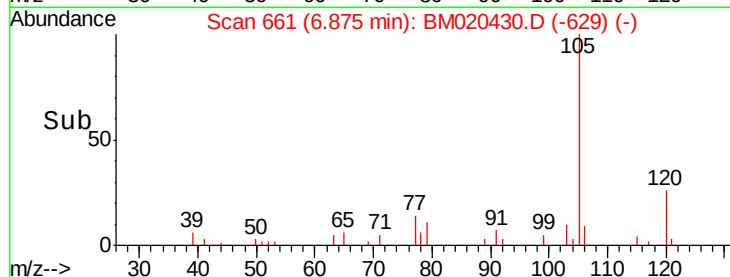
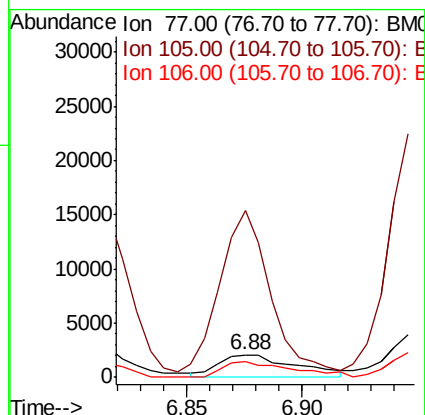
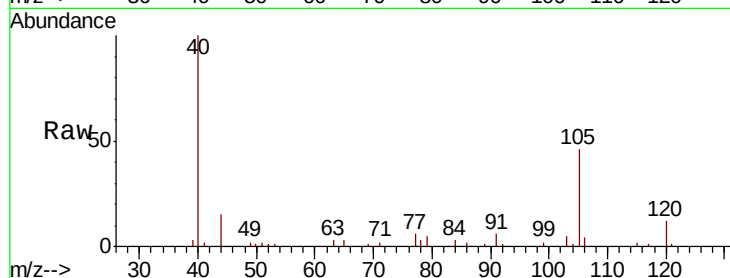
Tgt Ion: 77 Resp: 4882

Ion Ratio Lower Upper

77 100

105 739.0 67.4 101.0#

106 68.4 64.8 97.2



#17

Hexachloroethane

Concen: 2.626 ng/ul

RT: 8.83 min Scan# 993

Delta R.T. 0.04 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

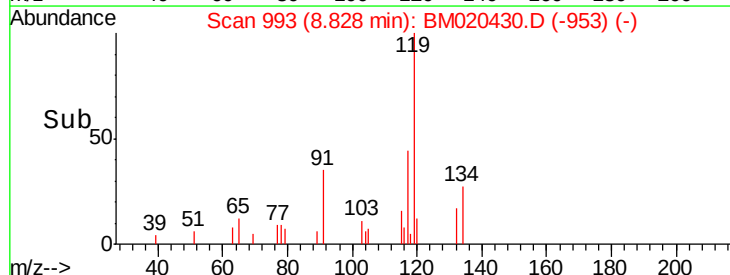
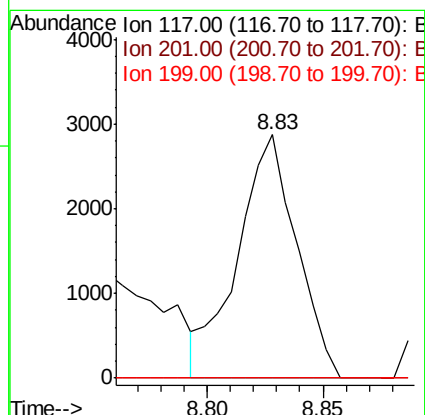
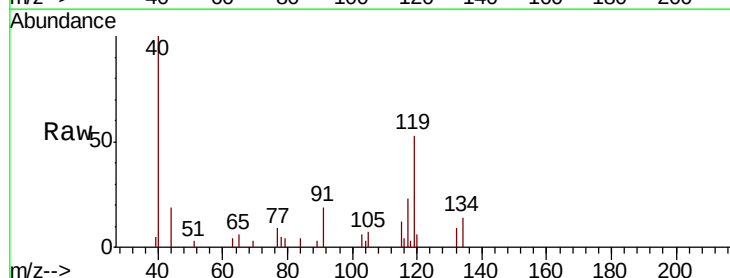
Tgt Ion: 117 Resp: 5102

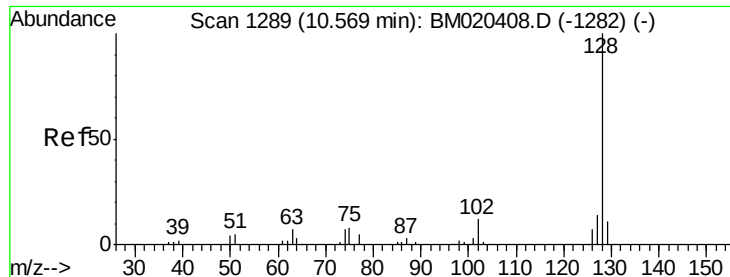
Ion Ratio Lower Upper

117 100

201 0.0 102.4 153.6#

199 0.0 63.3 94.9#

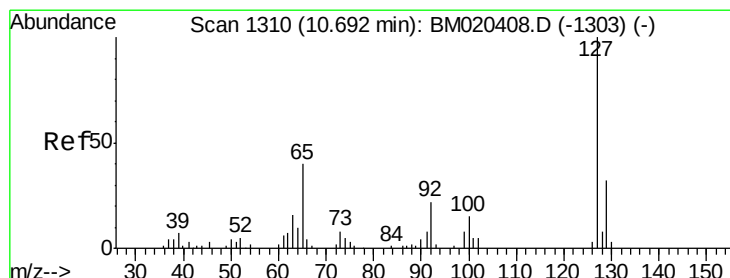
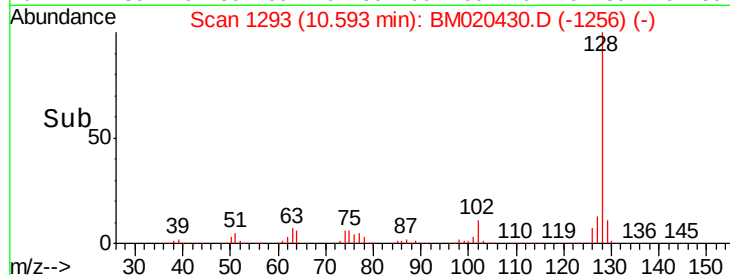
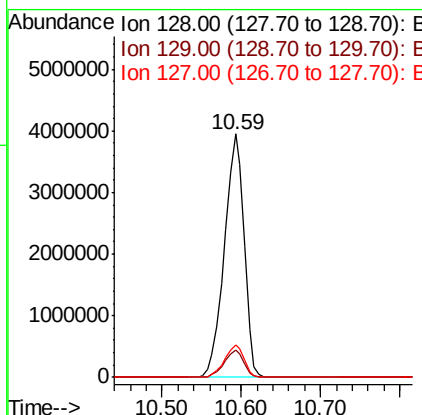
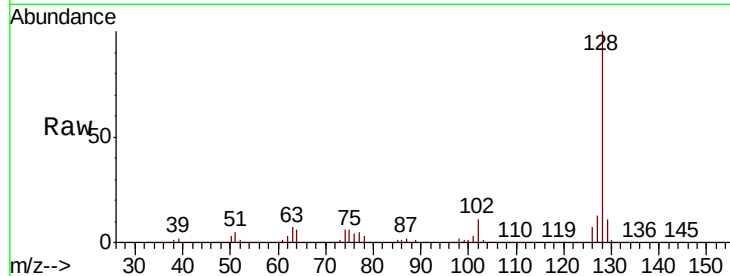




#28
Naphthalene
Concen: 569.405 ng/ul
RT: 10.59 min Scan# 1293
Delta R.T. 0.02 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

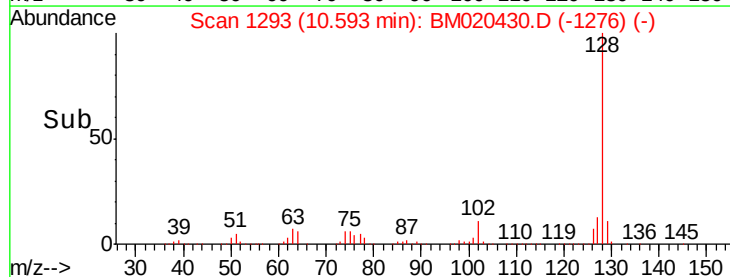
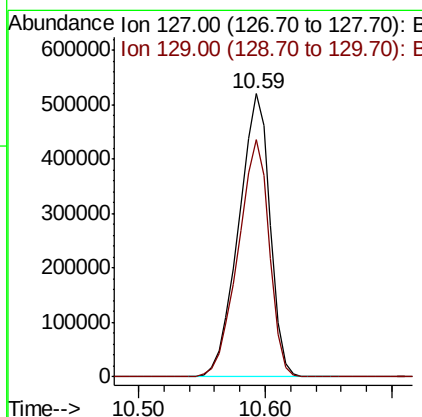
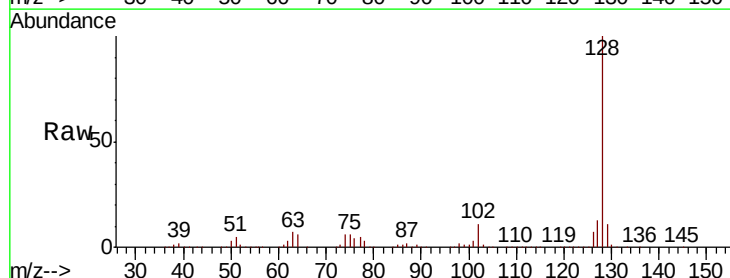
Instrument :
BNA_M
ClientSampleId :
GAJA5ME

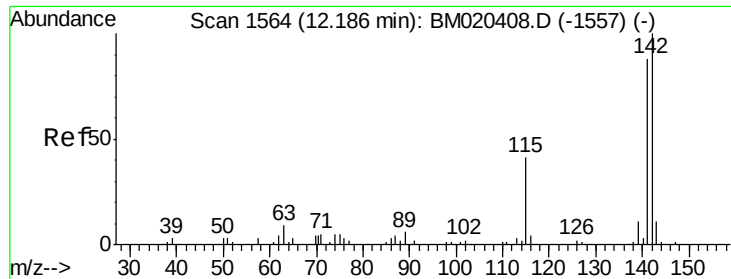
Tgt Ion:128 Resp: 6789976
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 13.2 10.6 15.8



#30
4-Chloroaniline
Concen: 214.518 ng/ul
RT: 10.59 min Scan# 1293
Delta R.T. -0.10 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

Tgt Ion:127 Resp: 892395
Ion Ratio Lower Upper
127 100
129 83.8 26.5 39.7#

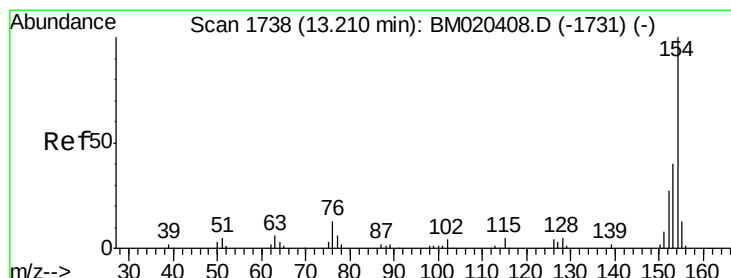
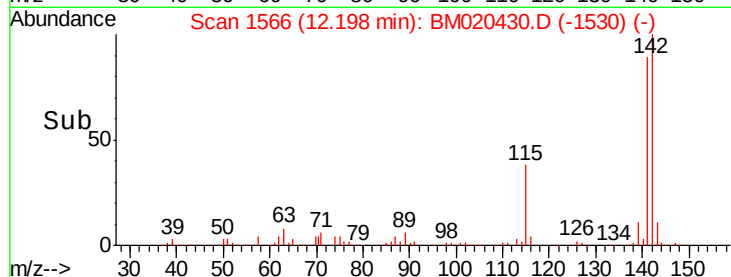
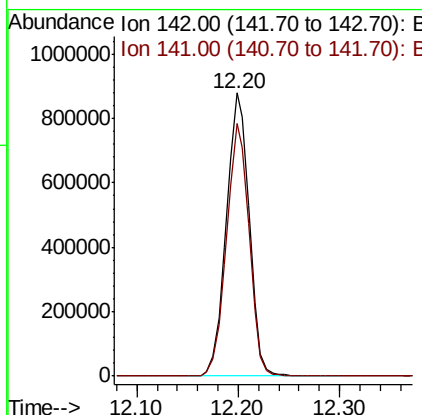
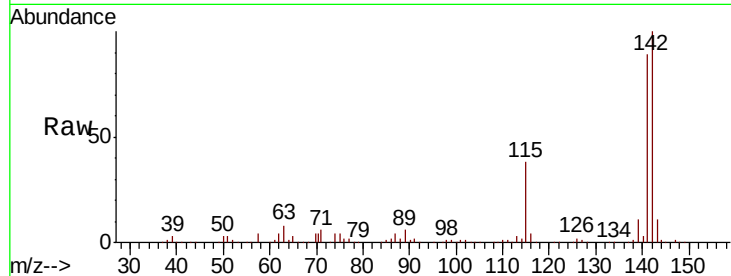




#34
 2-Methylnaphthalene
 Concen: 159.465 ng/ul
 RT: 12.20 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: BM020430.D
 Acq: 20 May 2019 15:22

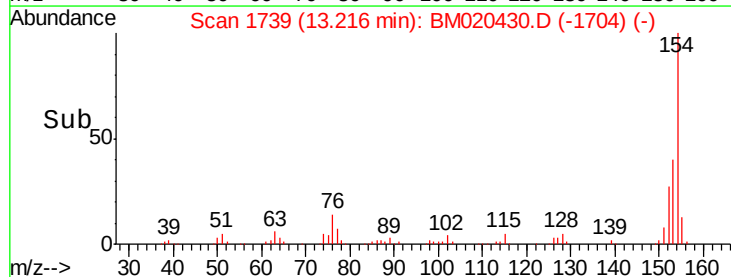
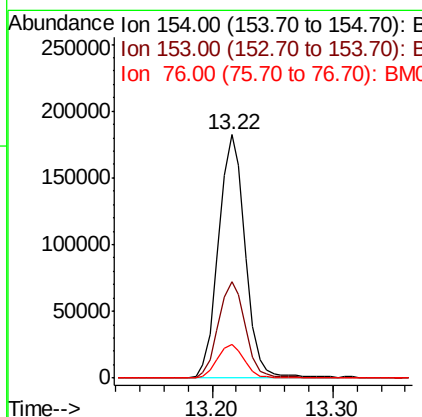
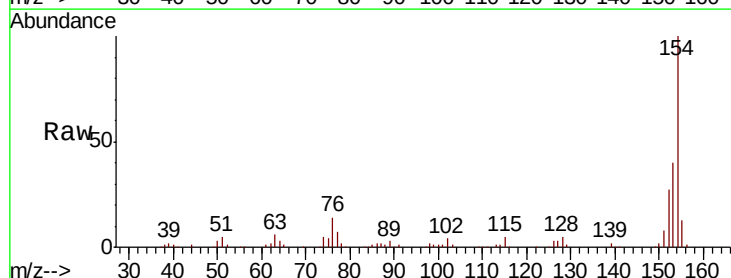
Instrument :
 BNA_M
 ClientSampleId :
 GAJA5ME

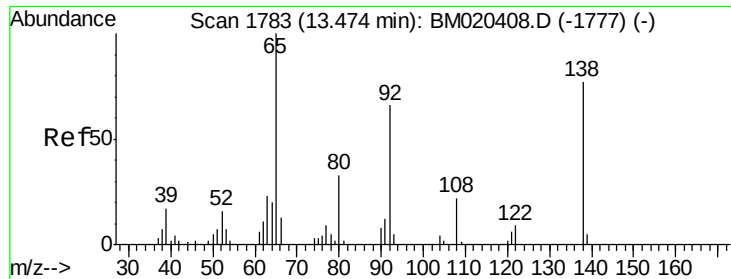
Tgt Ion:142 Resp: 1376820
 Ion Ratio Lower Upper
 142 100
 141 89.1 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 26.338 ng/ul
 RT: 13.22 min Scan# 1739
 Delta R.T. 0.01 min
 Lab File: BM020430.D
 Acq: 20 May 2019 15:22

Tgt Ion:154 Resp: 279150
 Ion Ratio Lower Upper
 154 100
 153 39.8 32.2 48.4
 76 13.8 11.0 16.4

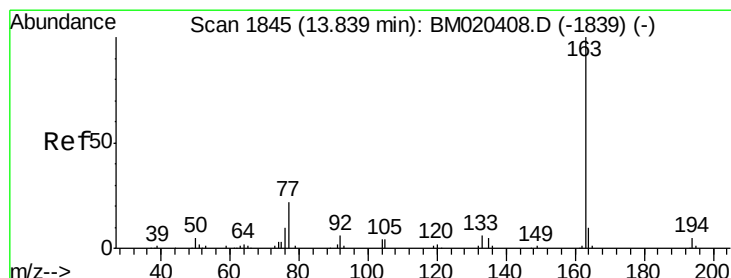
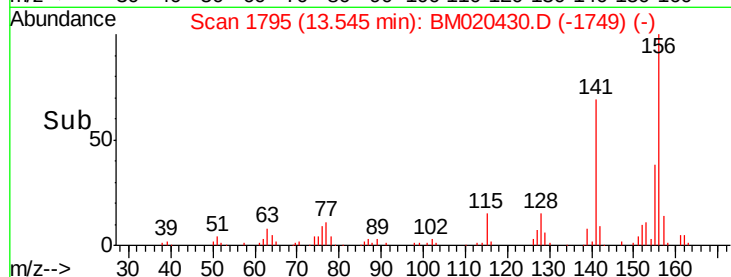
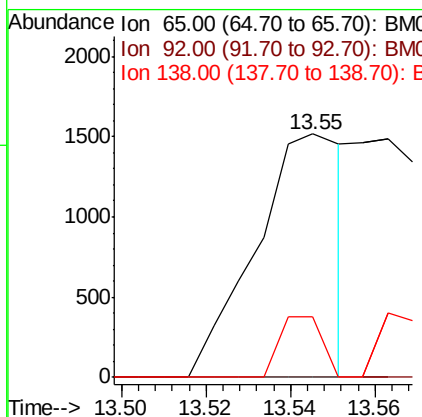
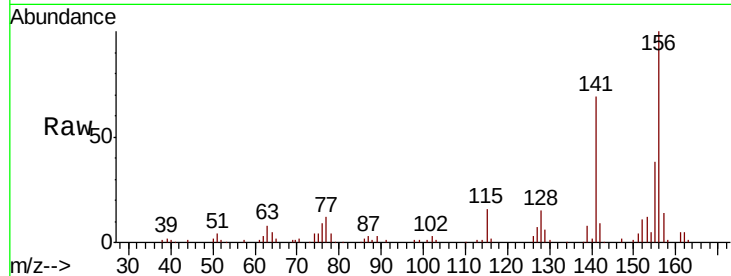




#42
2-Nitroaniline
Concen: 1.016 ng/ul
RT: 13.55 min Scan# 1795
Delta R.T. 0.07 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

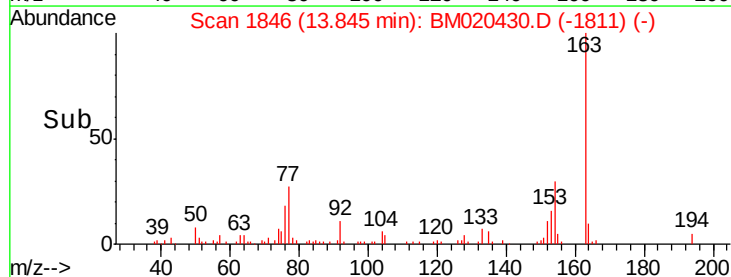
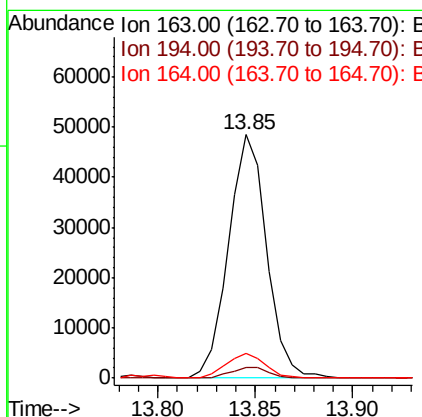
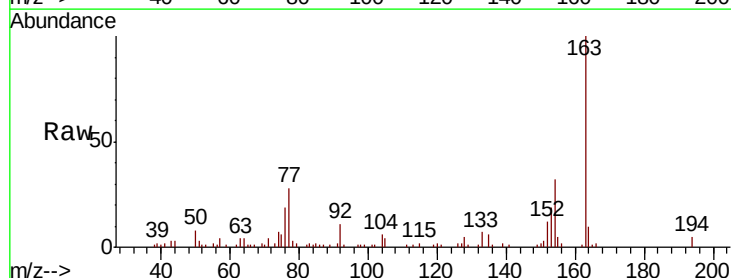
Instrument :
BNA_M
ClientSampleId :
GAJA5ME

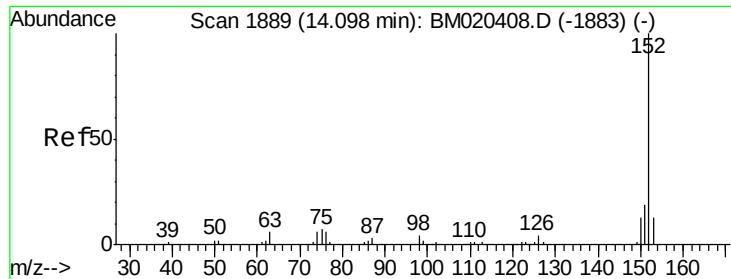
Tgt Ion: 65 Resp: 2196
Ion Ratio Lower Upper
65 100
92 0.0 50.9 76.3#
138 24.7 64.2 96.2#



#44
Dimethylphthalate
Concen: 6.230 ng/ul
RT: 13.85 min Scan# 1846
Delta R.T. 0.01 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

Tgt Ion: 163 Resp: 65648
Ion Ratio Lower Upper
163 100
194 4.6 3.3 4.9
164 10.3 8.0 12.0





#47

Acenaphthylene

Concen: 27.780 ng/ul

RT: 14.11 min Scan# 1891

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

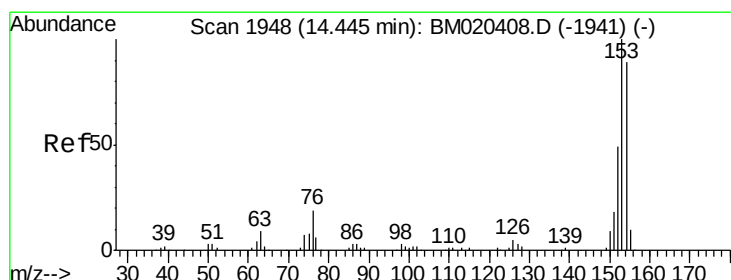
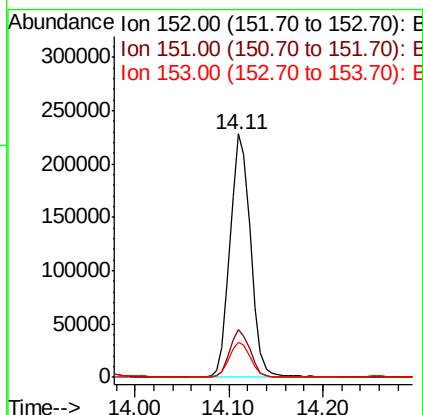
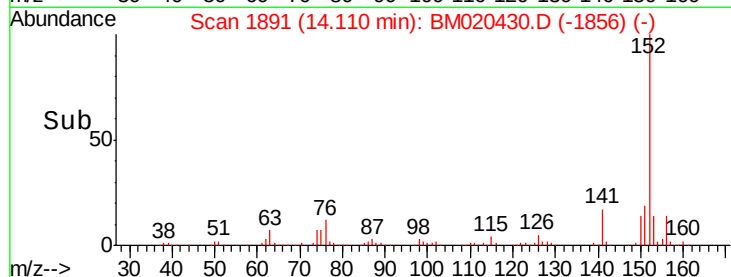
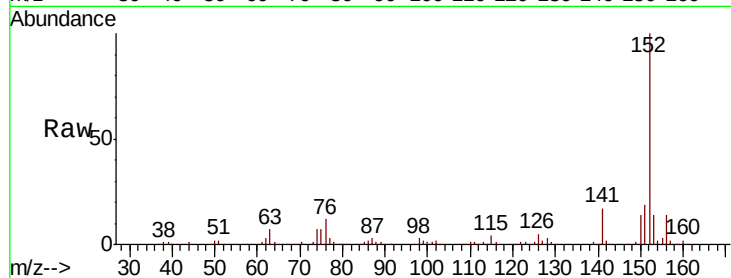
Tgt Ion:152 Resp: 349030

Ion Ratio Lower Upper

152 100

151 19.4 15.4 23.0

153 14.2 10.3 15.5



#49

Acenaphthene

Concen: 8.797 ng/ul

RT: 14.45 min Scan# 1949

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

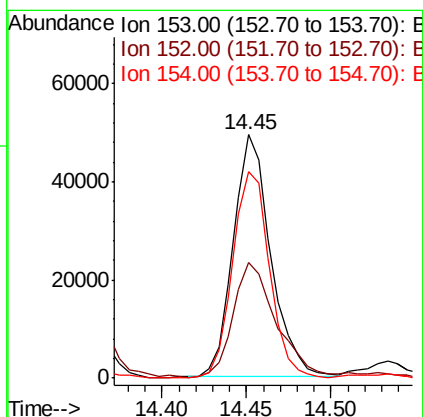
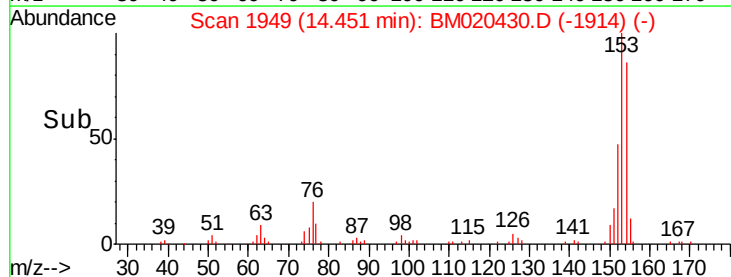
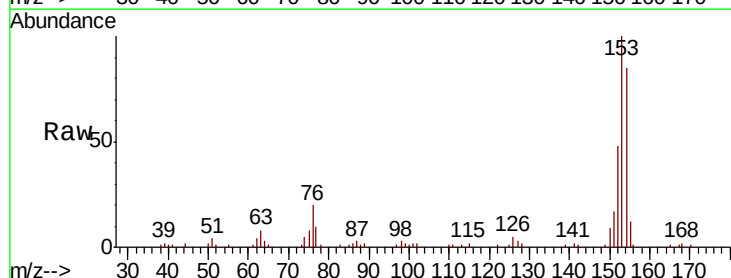
Tgt Ion:153 Resp: 75984

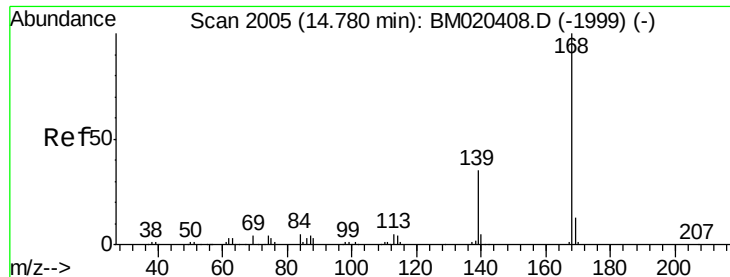
Ion Ratio Lower Upper

153 100

152 47.7 37.9 56.9

154 84.8 71.2 106.8





#53

Dibenzenofuran

Concen: 7.444 ng/ul

RT: 14.79 min Scan# 2007

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

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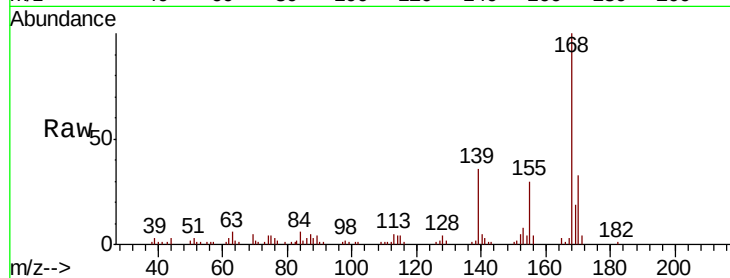
GAJA5ME

Tgt Ion:168 Resp: 97374

Ion Ratio Lower Upper

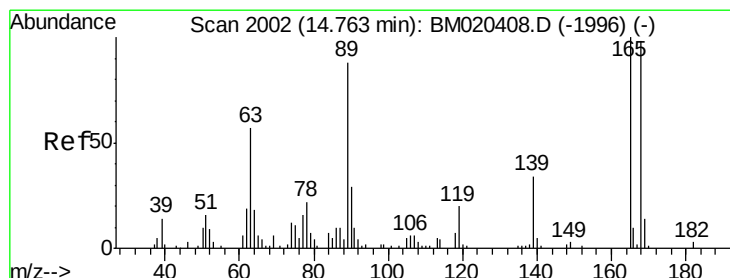
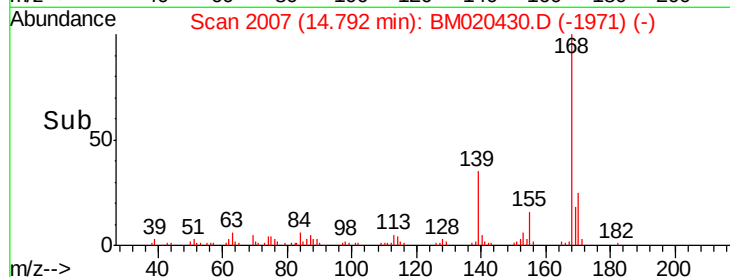
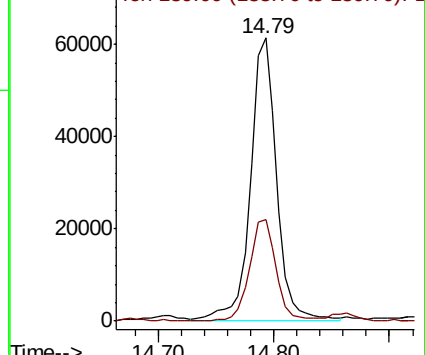
168 100

139 35.7 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: 1.134 ng/ul

RT: 14.79 min Scan# 2006

Delta R.T. 0.02 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

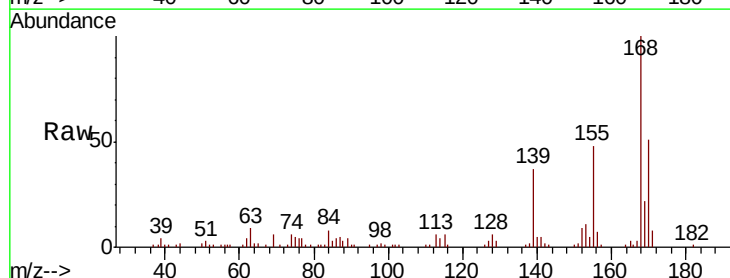
Tgt Ion:165 Resp: 3193

Ion Ratio Lower Upper

165 100

63 269.4 43.2 64.8#

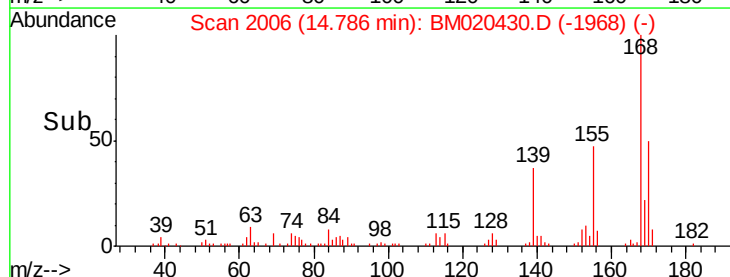
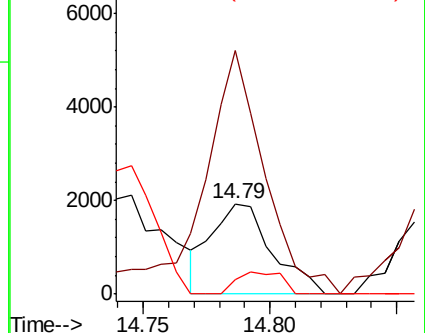
182 15.6 2.6 4.0#

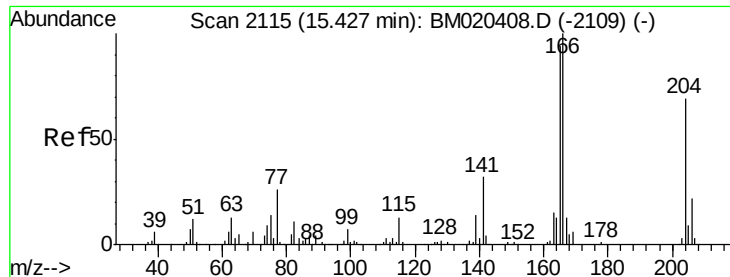


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 52.439 ng/ul

RT: 15.45 min Scan# 2118

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

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GAJA5ME

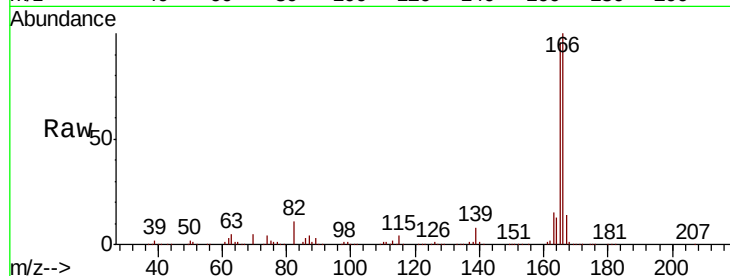
Tgt Ion:166 Resp: 549477

Ion Ratio Lower Upper

166 100

165 96.4 77.1 115.7

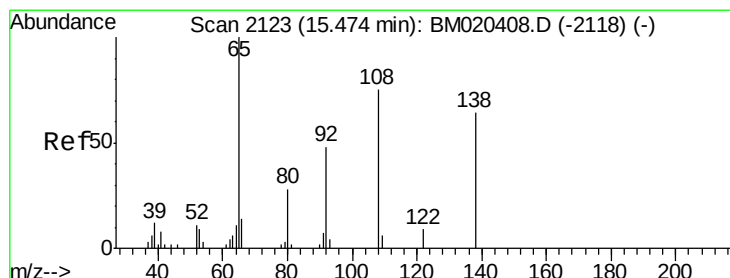
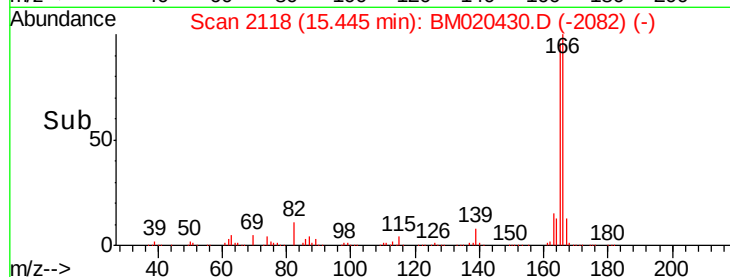
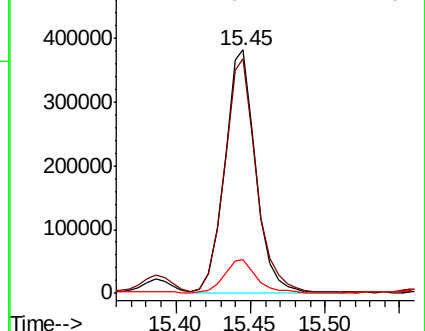
167 13.6 11.1 16.7



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



#60

4-Nitroaniline

Concen: 3.795 ng/ul

RT: 15.45 min Scan# 2118

Delta R.T. -0.03 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

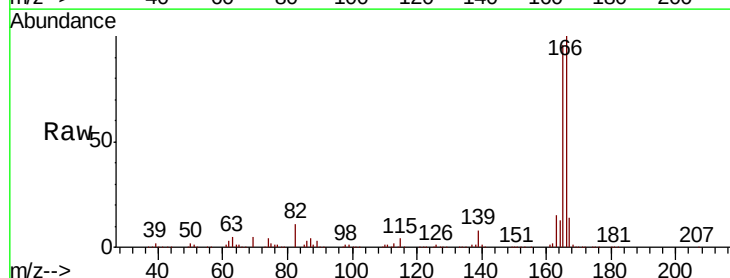
Tgt Ion:138 Resp: 6379

Ion Ratio Lower Upper

138 100

92 0.0 52.2 78.4#

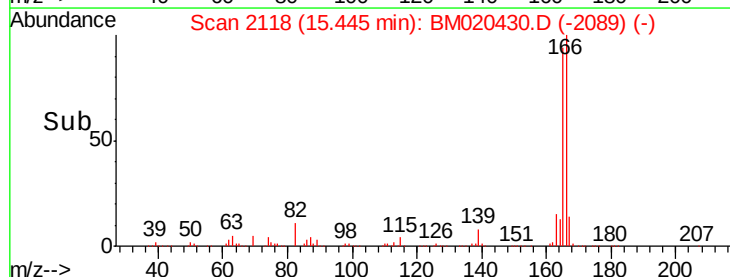
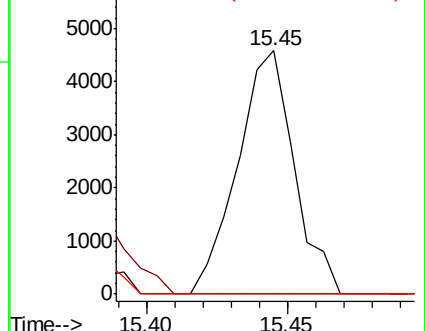
108 0.0 86.6 130.0#

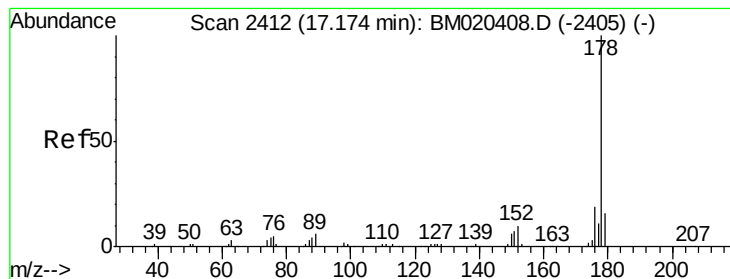


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E





#69

Phenanthrene

Concen: 190.750 ng/ul

RT: 17.19 min Scan# 2415

Delta R.T. 0.02 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

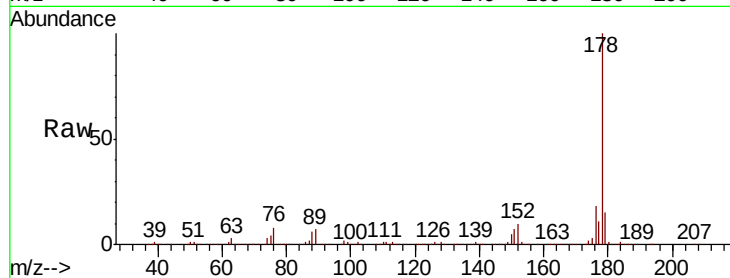
Tgt Ion:178 Resp: 3095118

Ion Ratio Lower Upper

178 100

179 15.3 11.9 17.9

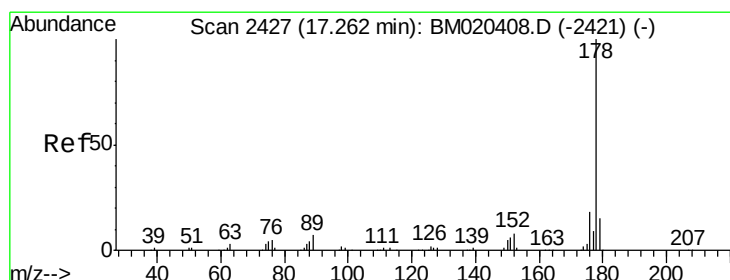
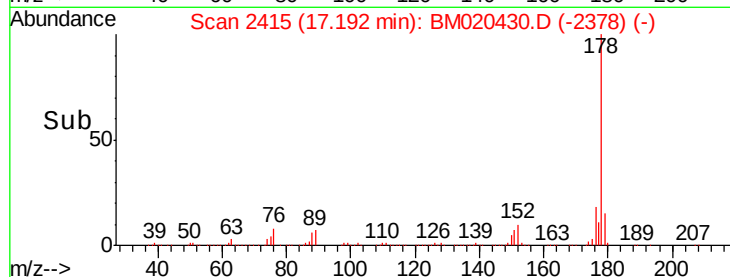
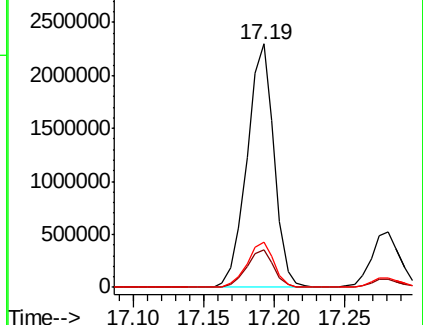
176 18.3 14.6 22.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 43.550 ng/ul

RT: 17.28 min Scan# 2430

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

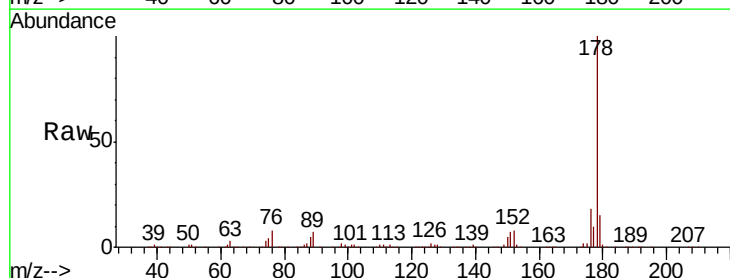
Tgt Ion:178 Resp: 718818

Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

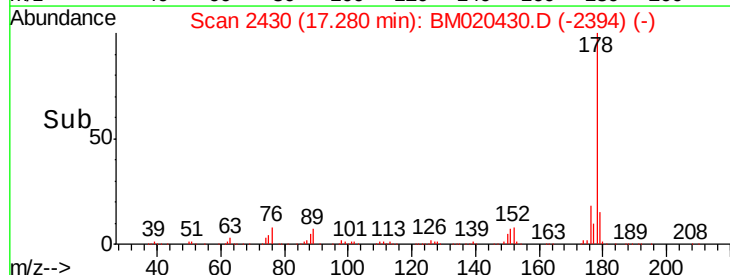
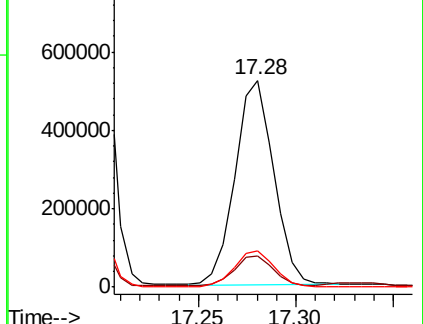
176 17.5 14.4 21.6

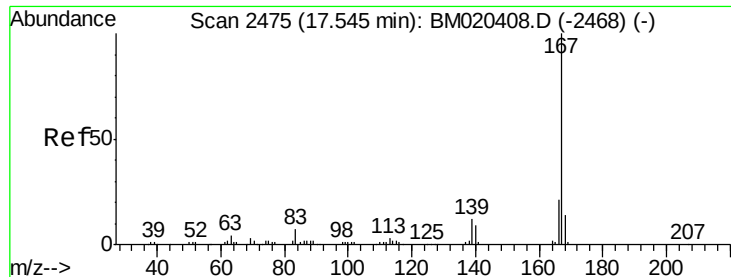


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 1.929 ng/ul

RT: 17.56 min Scan# 2477

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

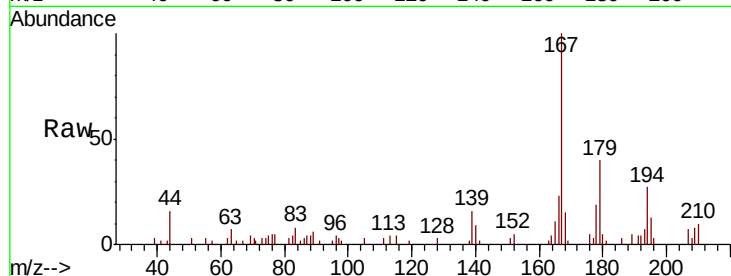
Tgt Ion:167 Resp: 27024

Ion Ratio Lower Upper

167 100

166 23.0 16.6 24.8

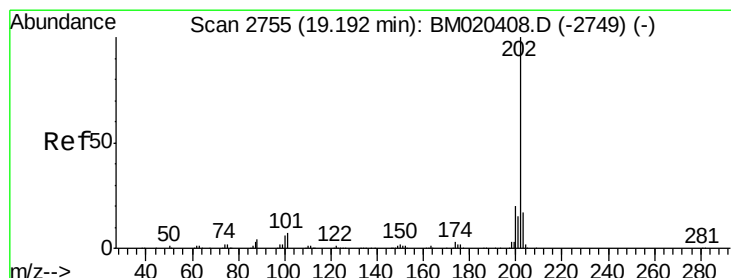
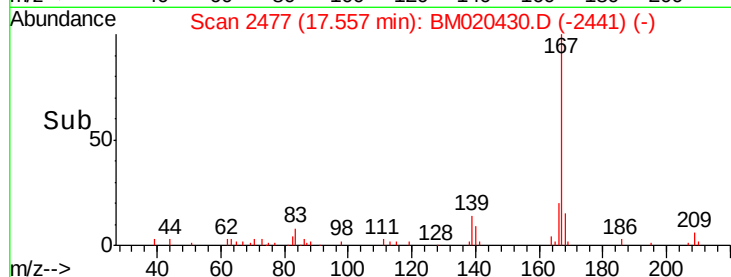
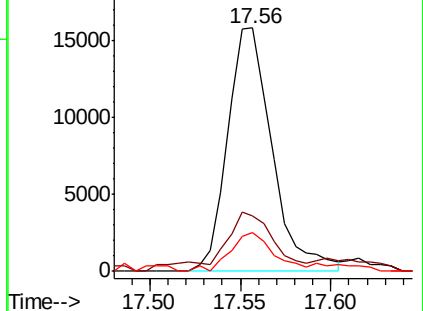
139 16.0 9.8 14.8#



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: 65.898 ng/ul

RT: 19.21 min Scan# 2758

Delta R.T. 0.02 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

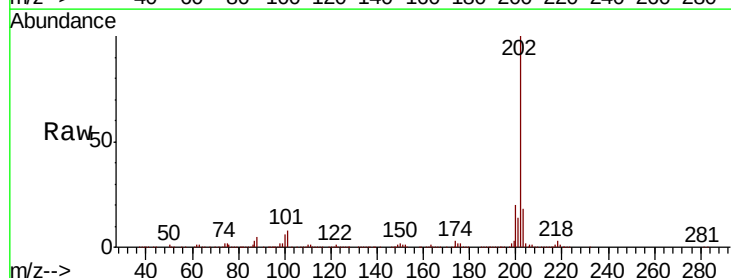
Tgt Ion:202 Resp: 1350698

Ion Ratio Lower Upper

202 100

101 8.2 6.4 9.6

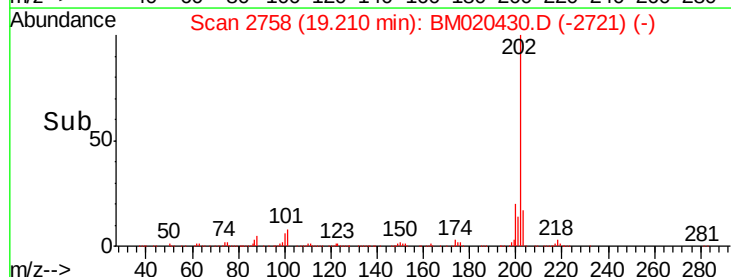
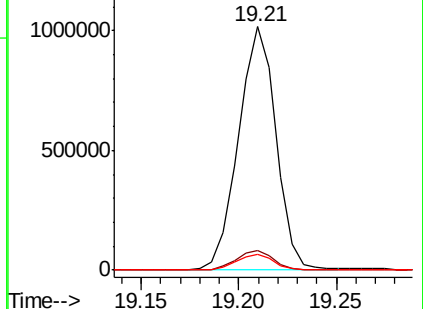
100 6.4 5.2 7.8

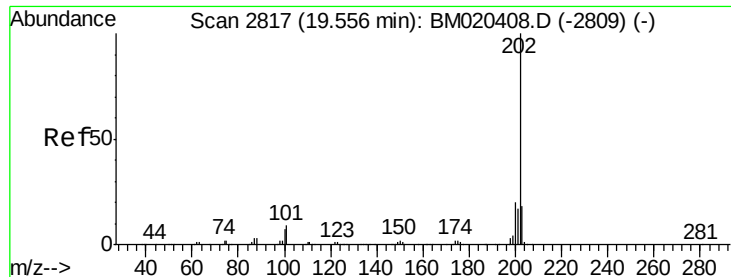


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#79

Pyrene

Concen: 85.752 ng/ul

RT: 19.57 min Scan# 2820

Delta R.T. 0.02 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

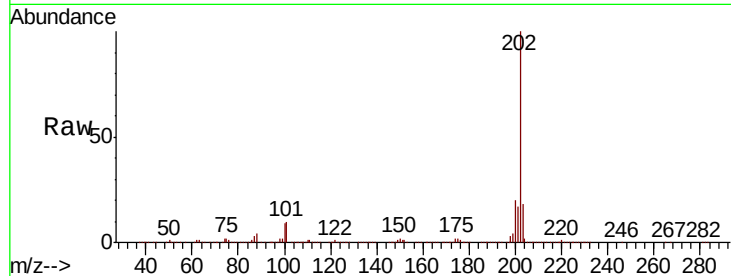
Tgt Ion:202 Resp: 1798595

Ion Ratio Lower Upper

202 100

101 10.4 7.1 10.7

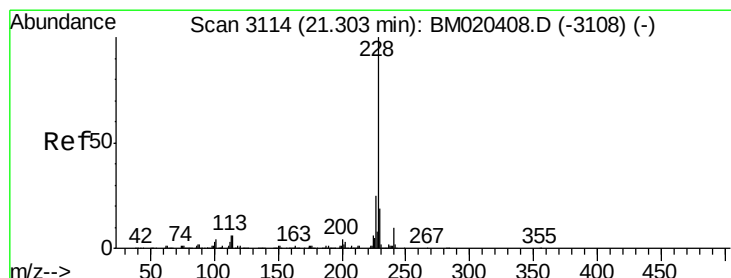
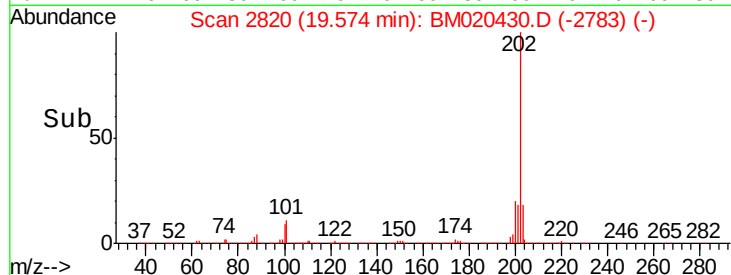
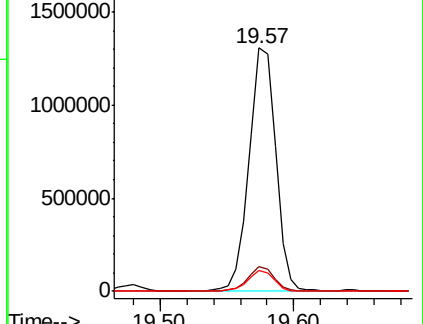
100 8.5 5.9 8.9



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: 27.733 ng/ul

RT: 21.38 min Scan# 3127

Delta R.T. 0.08 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

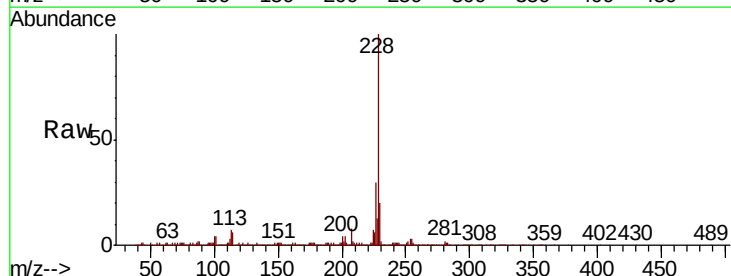
Tgt Ion:228 Resp: 583296

Ion Ratio Lower Upper

228 100

229 20.0 15.8 23.8

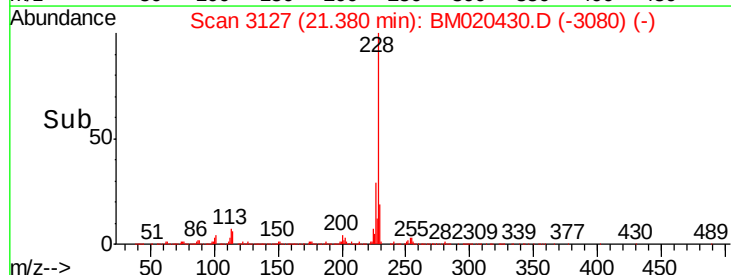
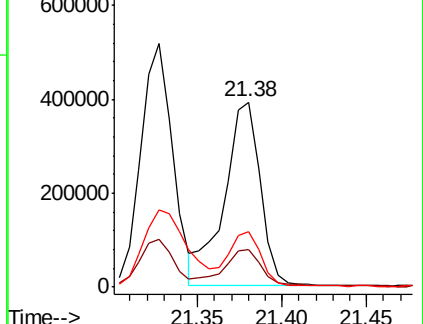
226 29.7 20.6 30.8

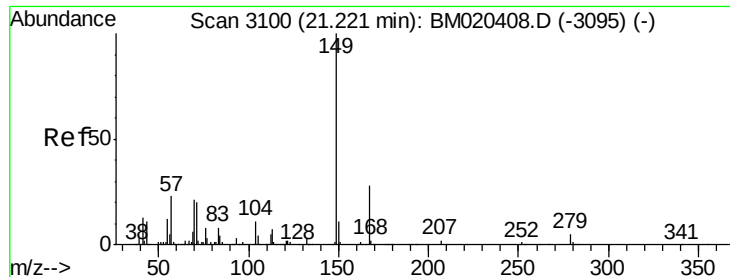


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 1.057 ng/ul

RT: 21.23 min Scan# 3102

Delta R.T. 0.01 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

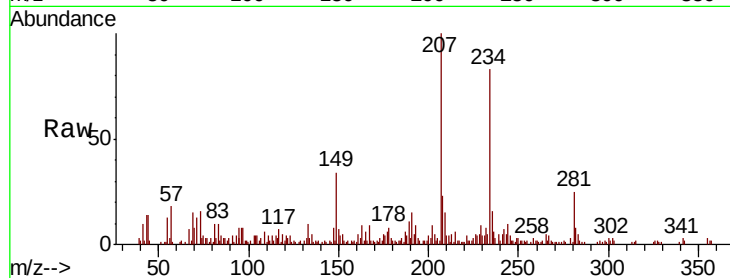
Tgt Ion:149 Resp: 10092

Ion Ratio Lower Upper

149 100

167 27.6 22.5 33.7

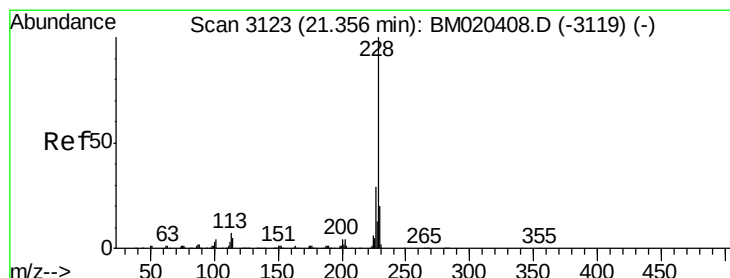
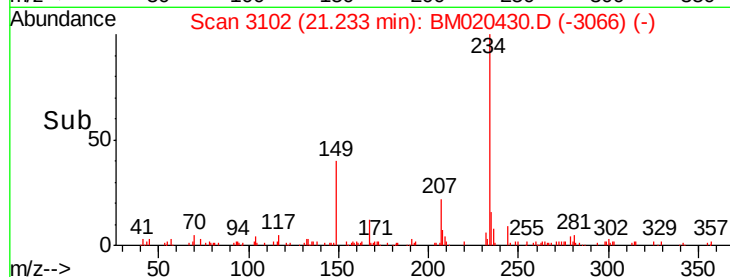
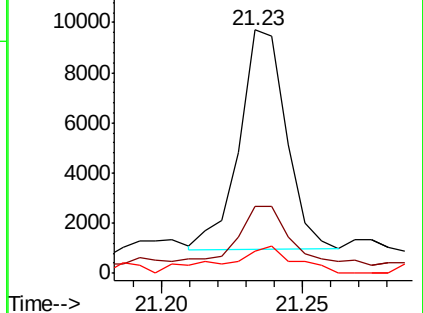
279 9.2 4.2 6.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Chrysene

Concen: 29.020 ng/ul

RT: 21.38 min Scan# 3127

Delta R.T. 0.02 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

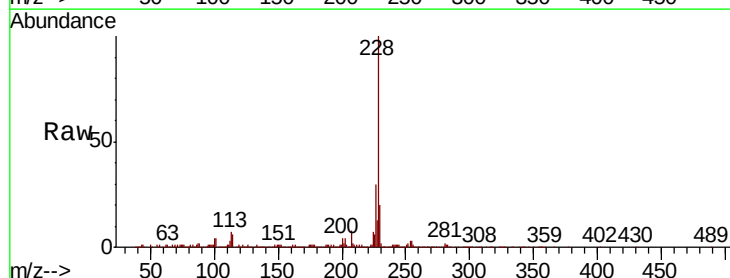
Tgt Ion:228 Resp: 583296

Ion Ratio Lower Upper

228 100

226 29.7 22.2 33.4

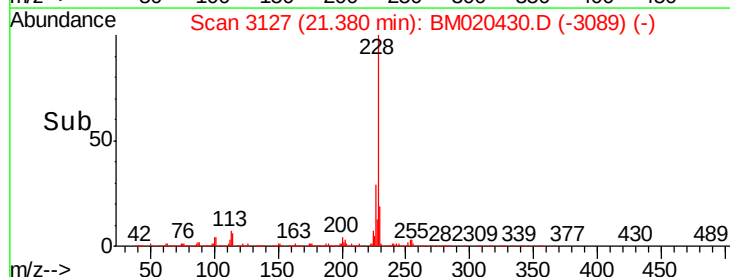
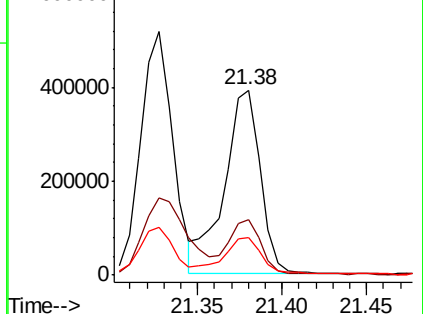
229 20.0 15.4 23.2

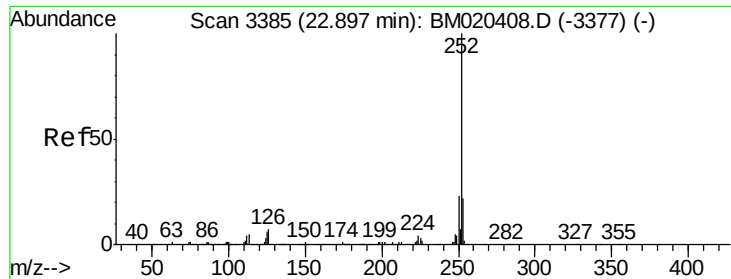


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

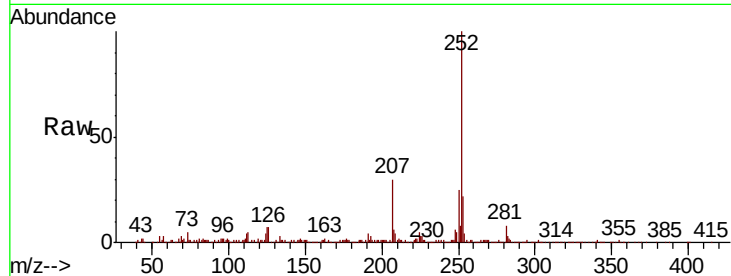




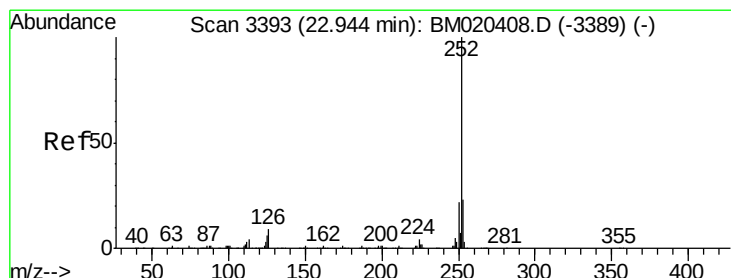
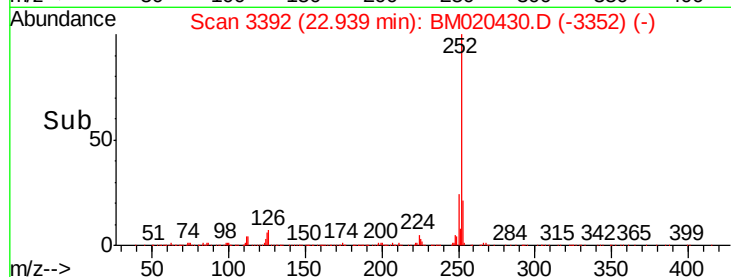
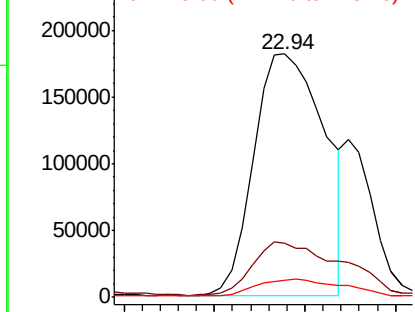
#87
Benzo(b)fluoranthene
Concen: 21.329 ng/ul
RT: 22.94 min Scan# 3392
Delta R.T. 0.04 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

Instrument :
BNA_M
ClientSampleId :
GAJA5ME

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	7.1	5.0	7.4

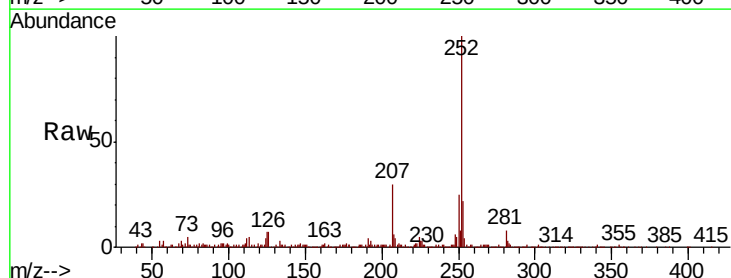


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

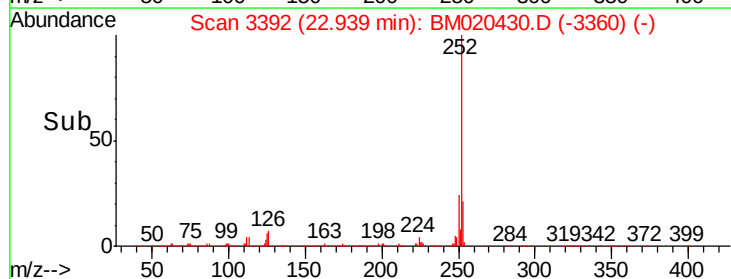
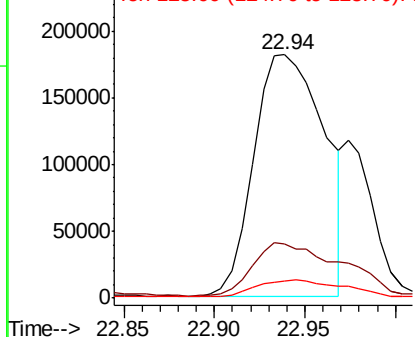


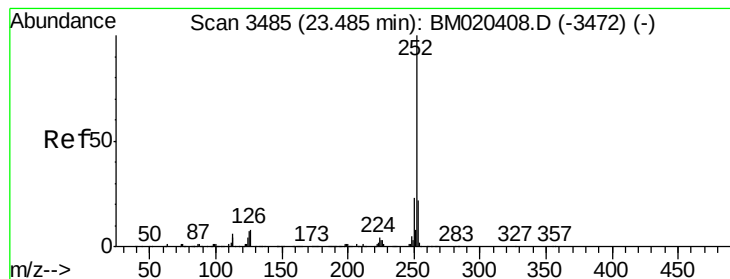
#88
Benzo(k)fluoranthene
Concen: 21.714 ng/ul
RT: 22.94 min Scan# 3392
Delta R.T. -0.01 min
Lab File: BM020430.D
Acq: 20 May 2019 15:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	7.1	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: 23.503 ng/ul

RT: 23.53 min Scan# 3492

Delta R.T. 0.04 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

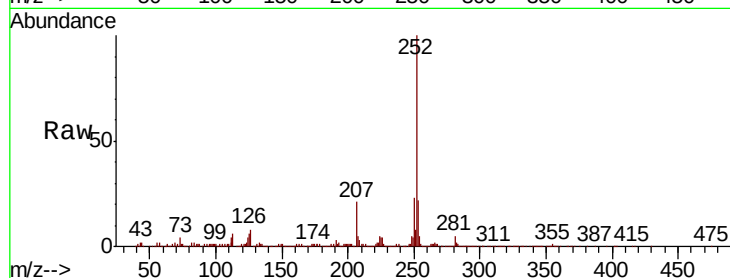
Tgt Ion:252 Resp: 510386

Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.2

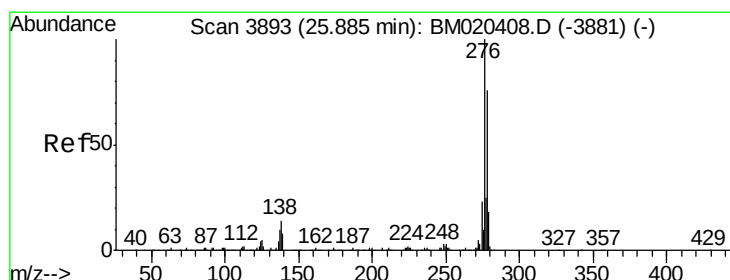
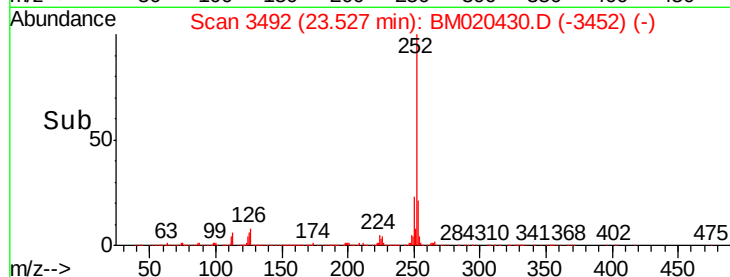
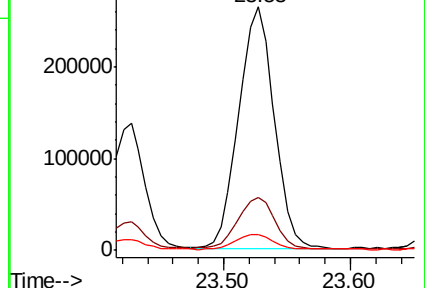
125 6.3 5.4 8.2



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: 9.072 ng/ul

RT: 25.94 min Scan# 3902

Delta R.T. 0.05 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

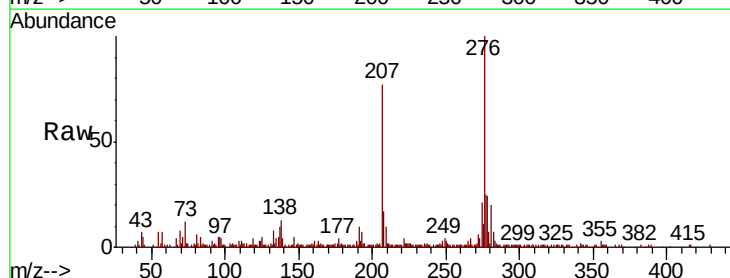
Tgt Ion:276 Resp: 224469

Ion Ratio Lower Upper

276 100

138 12.9 12.3 18.5

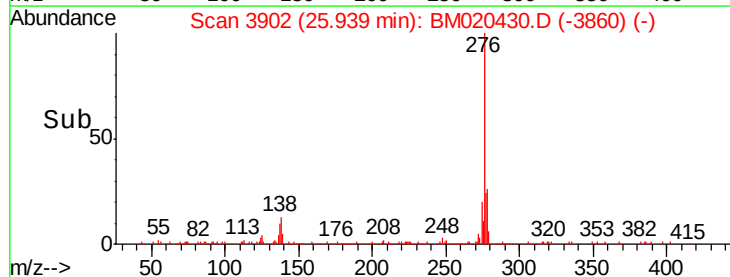
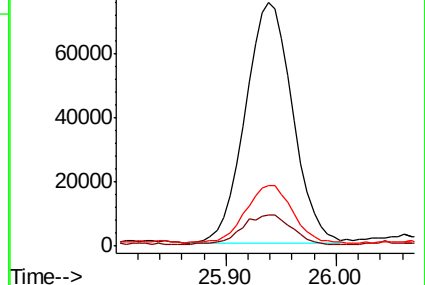
277 25.0 20.0 30.0

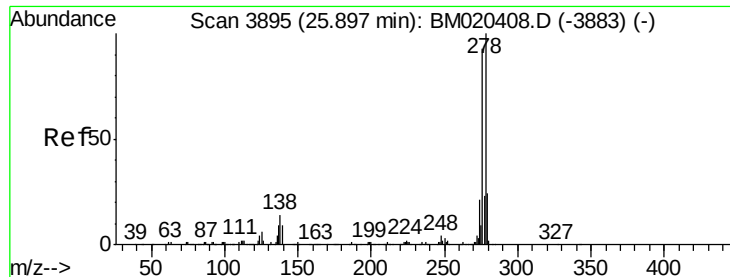


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 3.093 ng/ul

RT: 25.94 min Scan# 3903

Delta R.T. 0.04 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

Instrument :

BNA_M

ClientSampleId :

GAJA5ME

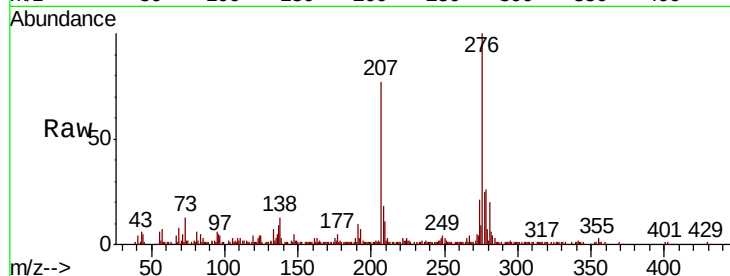
Tgt Ion:278 Resp: 65459

Ion Ratio Lower Upper

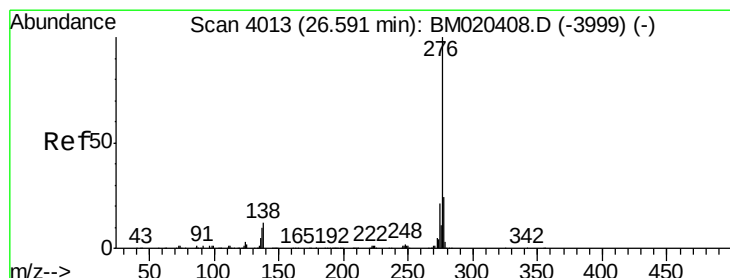
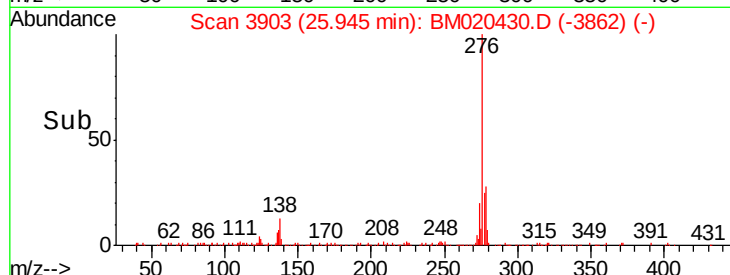
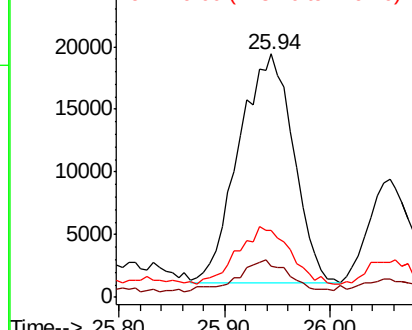
278 100

139 12.8 8.1 12.1#

279 27.4 18.7 28.1



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 8.363 ng/ul

RT: 26.66 min Scan# 4024

Delta R.T. 0.06 min

Lab File: BM020430.D

Acq: 20 May 2019 15:22

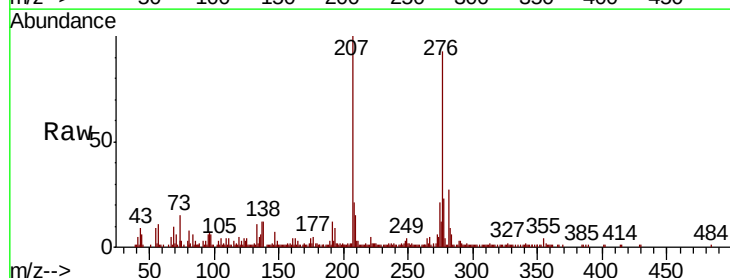
Tgt Ion:276 Resp: 171306

Ion Ratio Lower Upper

276 100

138 13.2 10.0 15.0

277 24.7 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

