

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM013020\
 Data File : BM024675.D
 Acq On : 31 Jan 2020 01:06
 Operator : CG/JU
 Sample : L1287-03 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jan 31 02:22:28 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	200593	20.00	ng	-0.02
21) Naphthalene-d8	10.19	136	774531	20.00	ng	-0.02
39) Acenaphthene-d10	14.08	164	524672	20.00	ng	-0.01
64) Phenanthrene-d10	16.83	188	1199763	20.00	ng	-0.01
76) Chrysene-d12	21.04	240	1321362	20.00	ng	-0.02
87) Perylene-d12	23.15	264	1588560	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	172213	16.33	ng	-0.01
7) Phenol-d6	6.63	99	220180	15.15	ng	-0.02
23) Nitrobenzene-d5	8.56	82	138759	8.79	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	143264	16.79	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	384491	9.96	ng	-0.02
79) Terphenyl-d14	19.49	244	720699	10.18	ng	-0.02

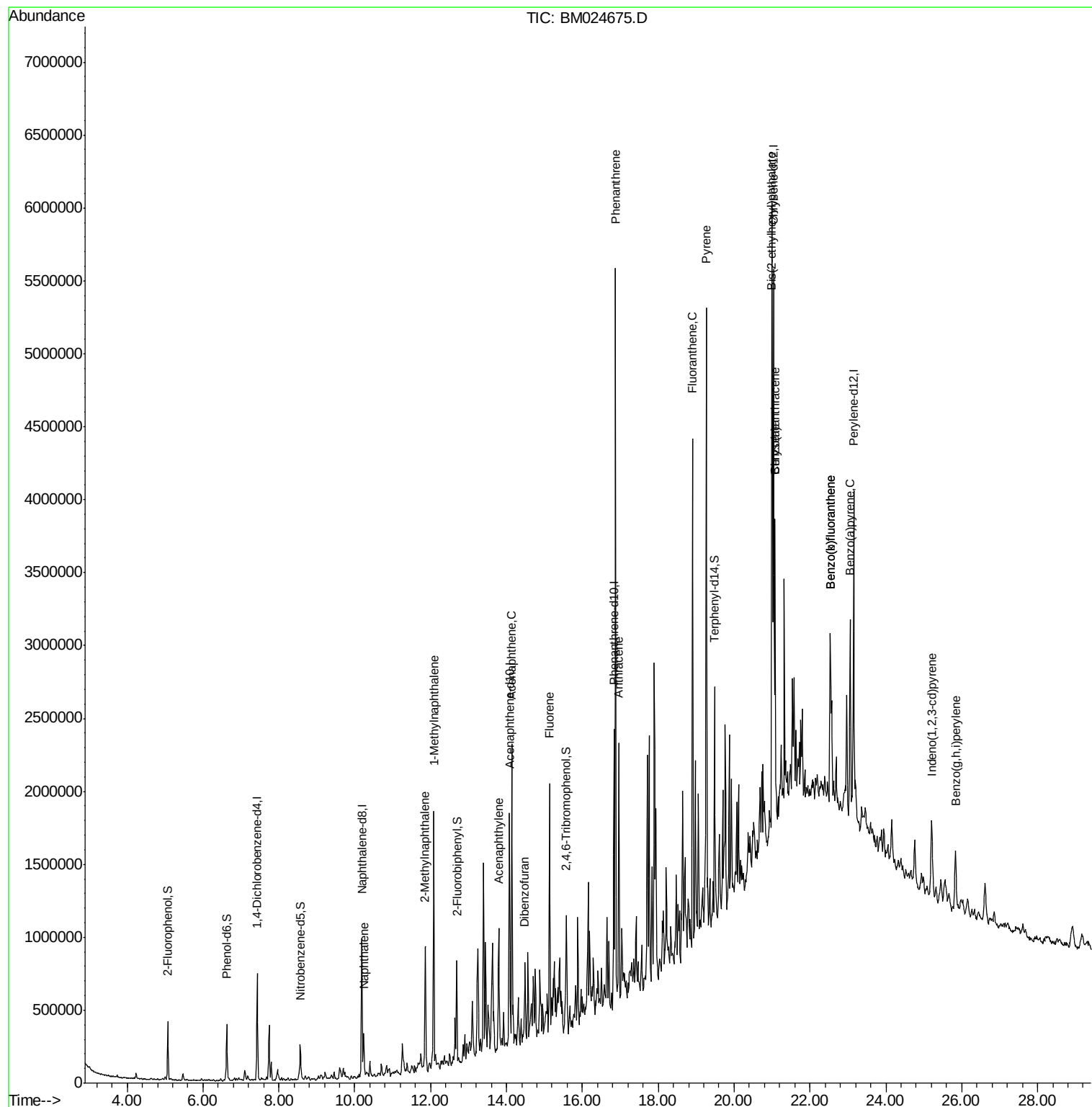
Target Compounds				Qvalue		
31) Naphthalene	10.23	128	241269	6.167	ng	100
37) 2-Methylnaphthalene	11.86	142	402904	13.346	ng	98
38) 1-Methylnaphthalene	12.09	142	829451	28.884	ng	97
49) Acenaphthylene	13.79	152	485465	10.117	ng	98
52) Acenaphthene	14.14	154	678515	22.787	ng	99
55) Dibenzofuran	14.48	168	98326	2.025	ng	# 93
58) Fluorene	15.13	166	708292	17.356	ng	98
71) Phenanthrene	16.87	178	3124929	48.099	ng	98
72) Anthracene	16.96	178	1106490	17.406	ng	99
75) Fluoranthene	18.90	202	2057183	25.370	ng	98
78) Pyrene	19.27	202	2858991	32.821	ng	100
81) Benzo(a)anthracene	21.07	228	1096113	11.952	ng	95
83) Chrysene	21.07	228	1179109	13.474	ng	98
84) Bis(2-ethylhexyl)phthalate	21.00	149	1678548	31.123	ng	97
86) Indeno(1,2,3-cd)pyrene	25.21	276	483621	5.070	ng	97
88) Benzo(b)fluoranthene	22.53	252	1401610	13.604	ng	97
89) Benzo(k)fluoranthene	22.53	252	1396707	13.888	ng	# 96
90) Benzo(a)pyrene	23.06	252	982946	10.493	ng	97
92) Benzo(a,h,i)perylene	25.84	276	475547	5.891	ng	97

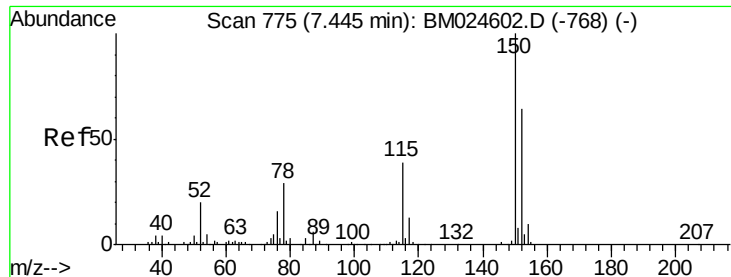
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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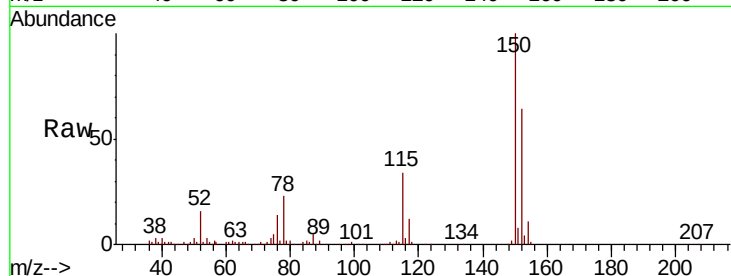


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.43 min Scan# 772
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	124.2	186.4
115	53.6	48.6	72.8

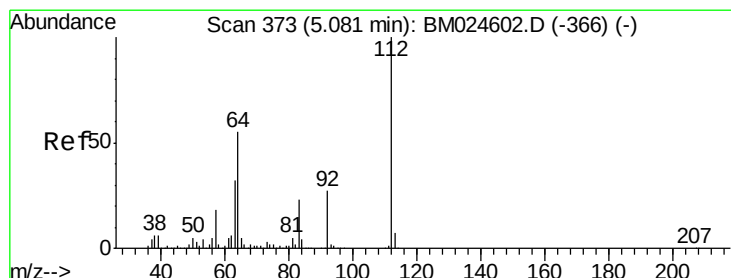
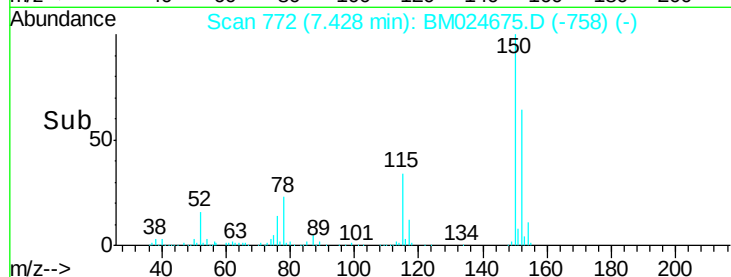
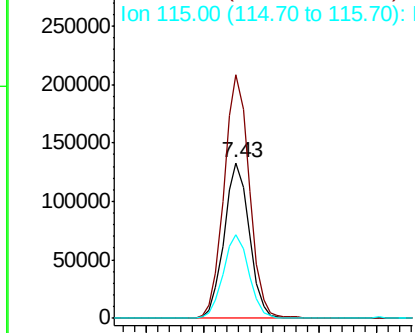


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

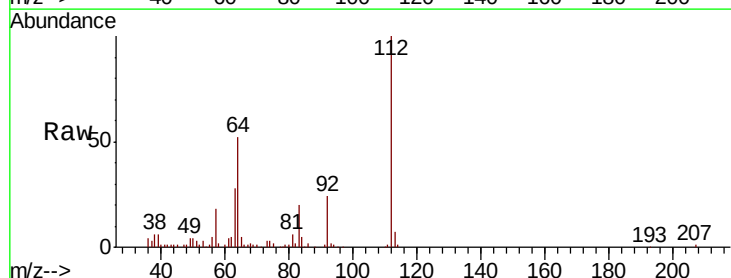
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 16.327 ng
RT: 5.07 min Scan# 371
Delta R.T. -0.01 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.0	44.2	66.4
63	28.5	25.9	38.9

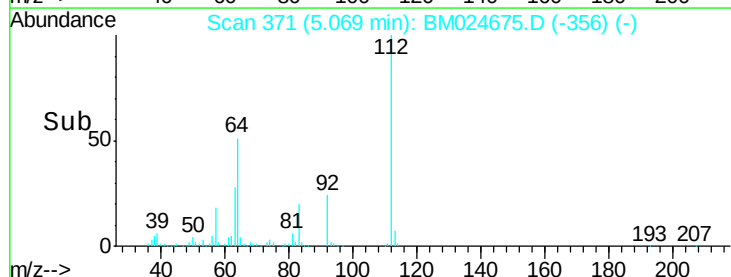
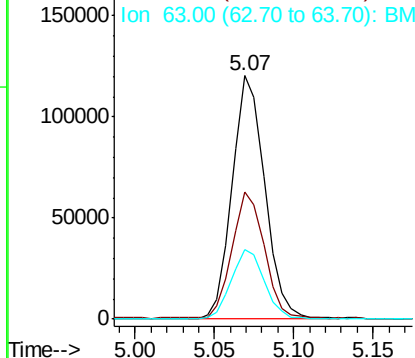


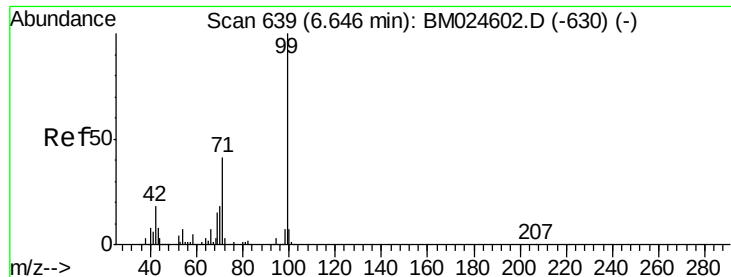
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 15.153 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

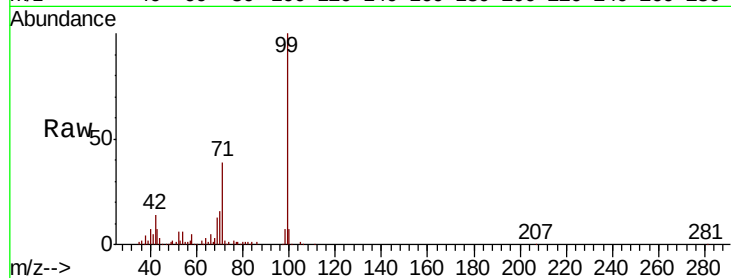
Tot Ion: 99 Resp: 220180

Ion Ratio Lower Upper

99 100

42 14.5 14.1 21.1

71 38.6 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BM024602.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM024602.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM024602.D (-630) (-)

6.63

150000

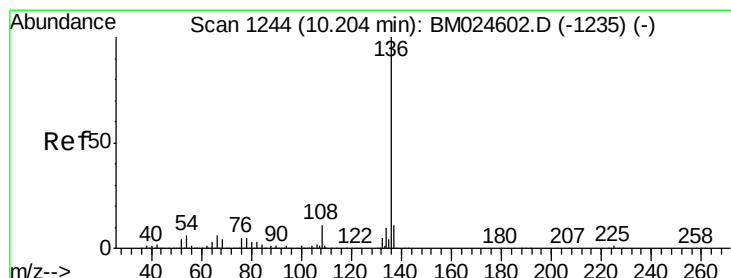
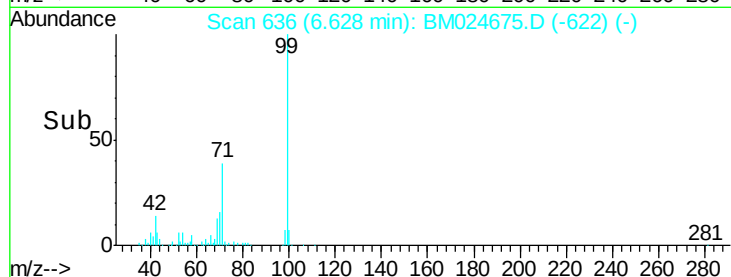
100000

50000

0

6.55 6.60 6.65 6.70

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.19 min Scan# 1241

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Tgt Ion: 136 Resp: 774531

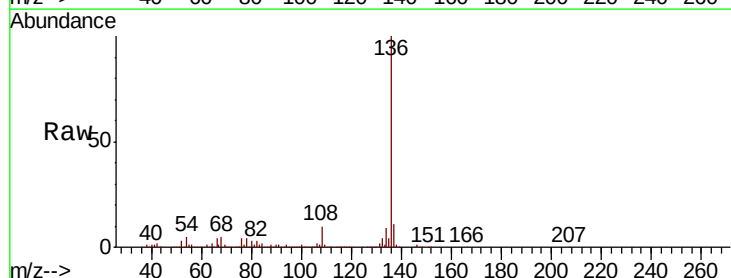
Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 4.6 4.5 6.7

68 4.5 3.4 5.0



Abundance Ion 136.00 (135.70 to 136.70): BM024602.D (-1235) (-)

Ion 137.00 (136.70 to 137.70): BM024602.D (-1235) (-)

Ion 54.00 (53.70 to 54.70): BM024602.D (-1235) (-)

Ion 68.00 (67.70 to 68.70): BM024602.D (-1235) (-)

10.19

600000

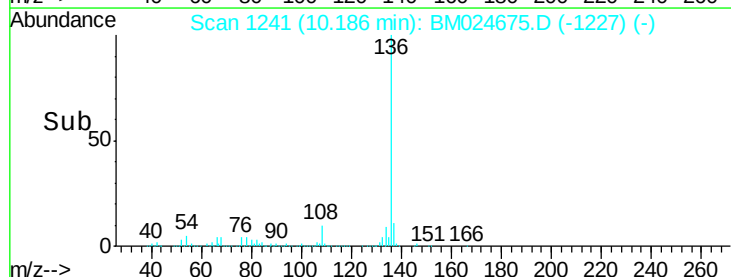
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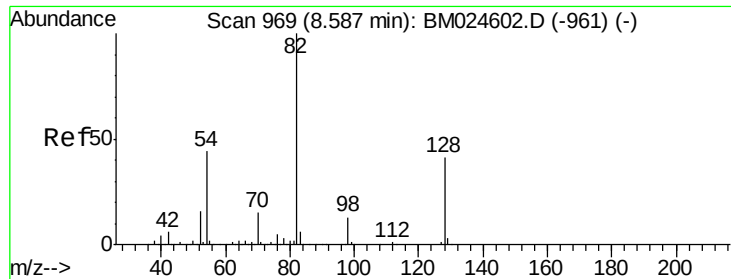
200000

0

10.10 10.20

Time-->

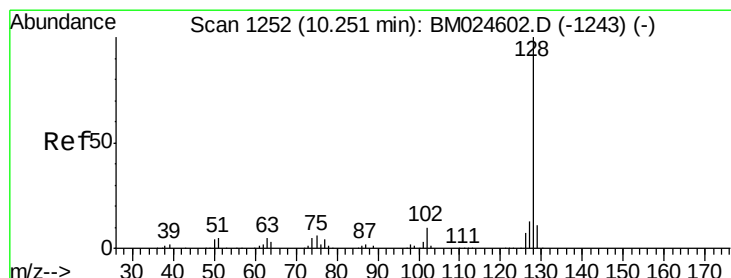
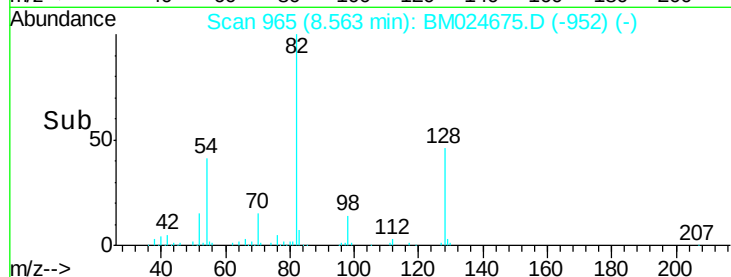
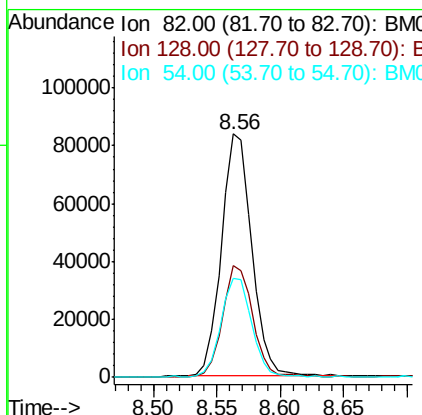
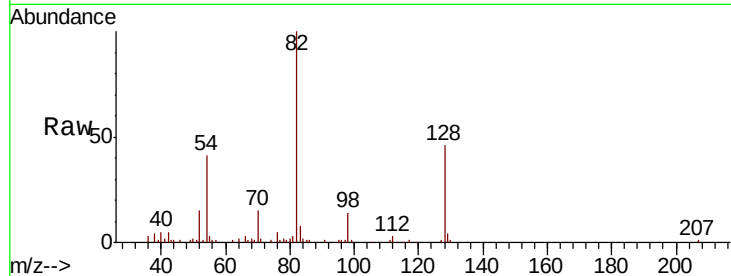




#23
 Nitrobenzene-d5
 Concen: 8.786 ng
 RT: 8.56 min Scan# 965
 Delta R.T. -0.02 min
 Lab File: BM024675.D
 Acq: 31 Jan 2020 01:06

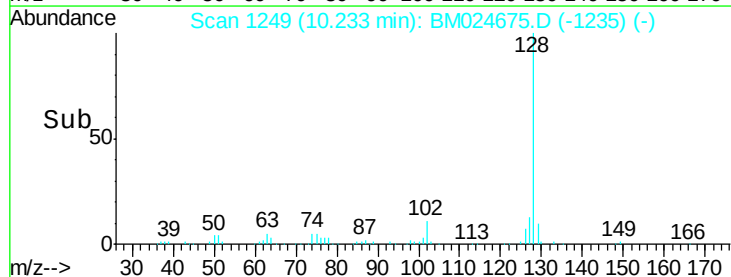
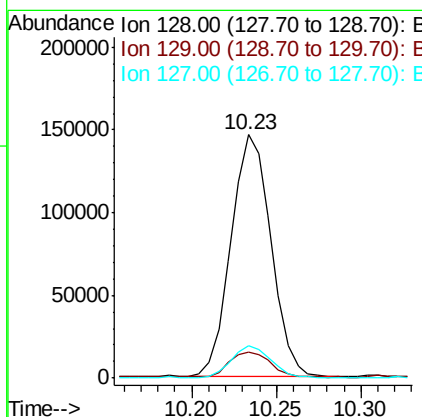
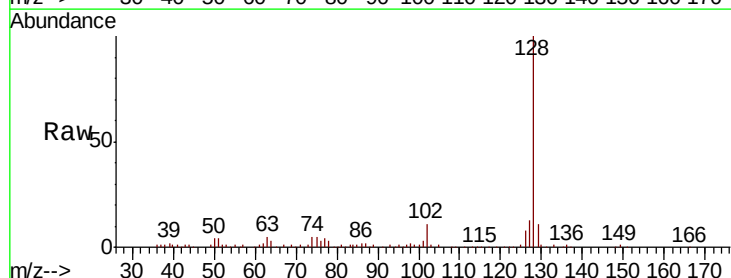
Instrument :
 BNA_M
 ClientSampleId :

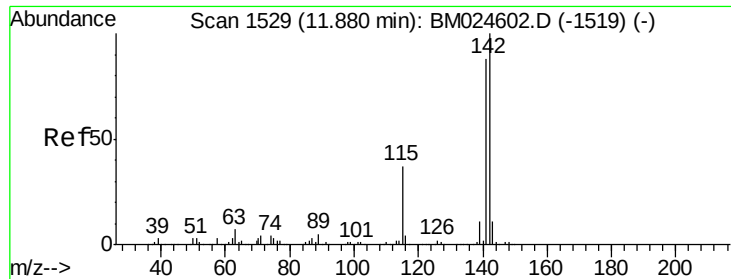
Tot Ion	82	Resp	138759
Ion Ratio	Lower	Upper	
82	100		
128	45.8	32.6	48.8
54	40.9	34.8	52.2



#31
 Naphthalene
 Concen: 6.167 ng
 RT: 10.23 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: BM024675.D
 Acq: 31 Jan 2020 01:06

Tgt Ion	128	Resp	241269
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.8	13.2
127	13.1	10.6	15.8

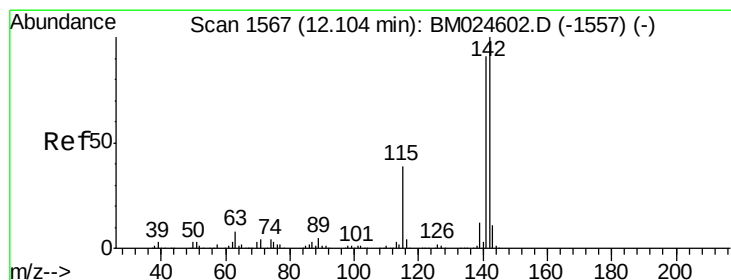
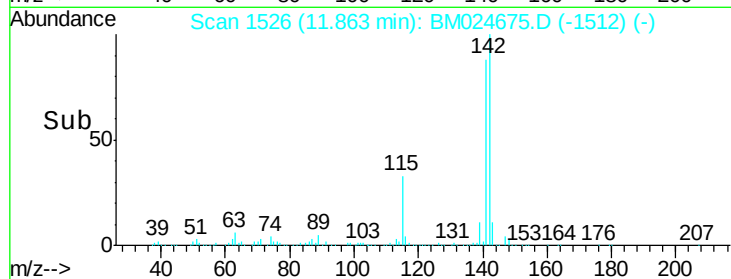
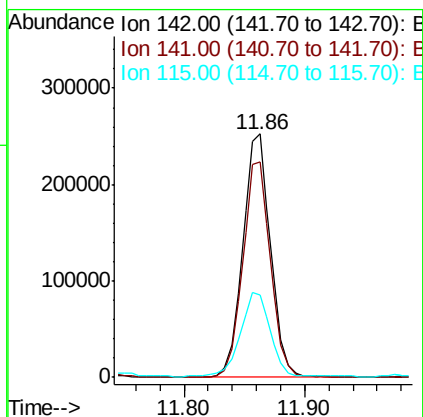
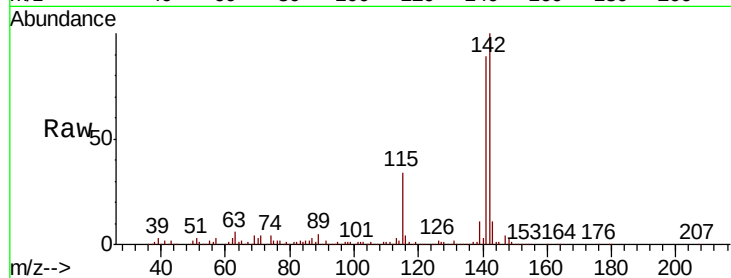




#37
2-Methylnaphthalene
Concen: 13.346 ng
RT: 11.86 min Scan# 1526
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

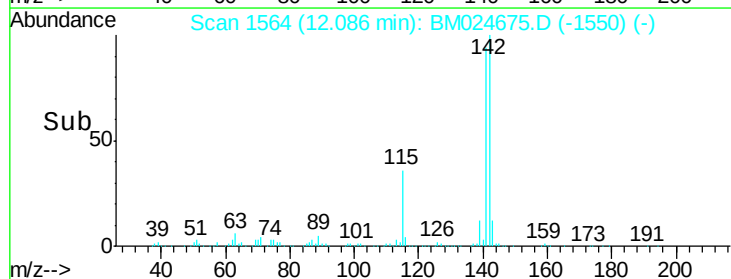
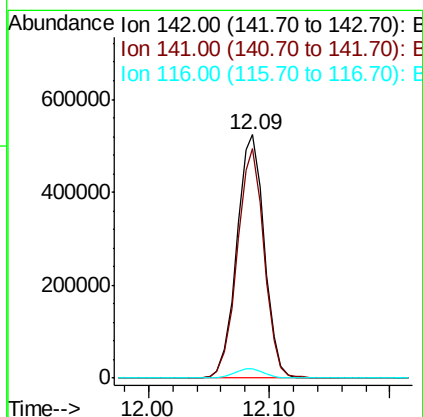
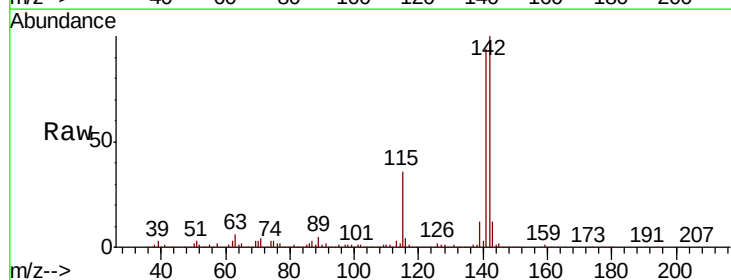
Instrument :
BNA_M
ClientSampleId :

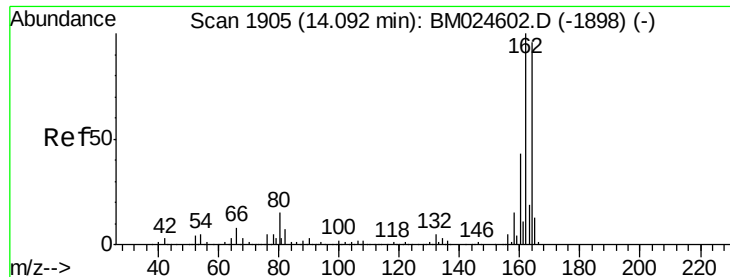
Tot Ion:142 Resp: 402904
Ion Ratio Lower Upper
142 100
141 88.6 70.2 105.2
115 33.6 29.7 44.5



#38
1-Methylnaphthalene
Concen: 28.884 ng
RT: 12.09 min Scan# 1564
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion:142 Resp: 829451
Ion Ratio Lower Upper
142 100
141 94.0 72.8 109.2
116 3.9 3.2 4.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.08 min Scan# 1903

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

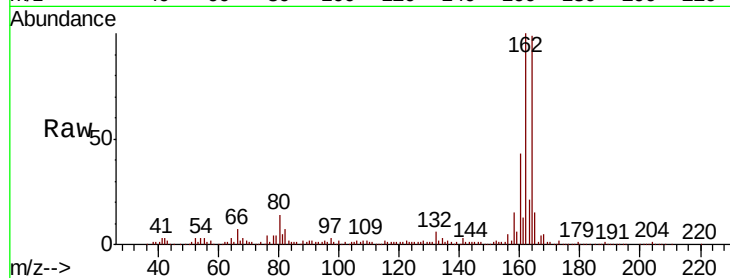
Tot Ion:164 Resp: 524672

Ion Ratio Lower Upper

164 100

162 101.2 82.9 124.3

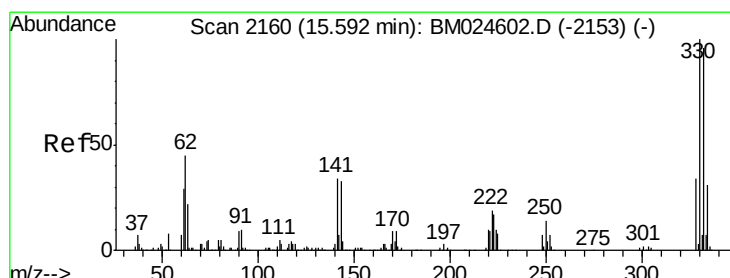
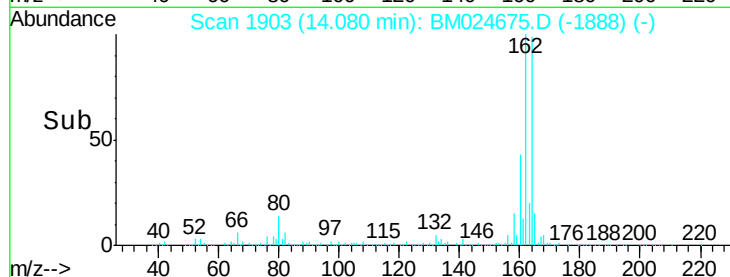
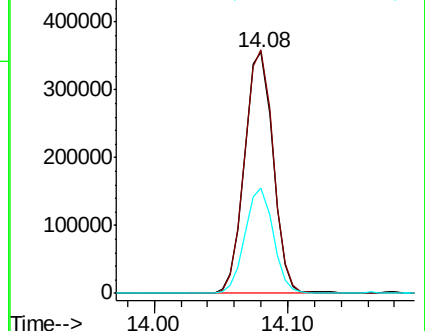
160 43.9 35.5 53.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 16.786 ng

RT: 15.57 min Scan# 2157

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

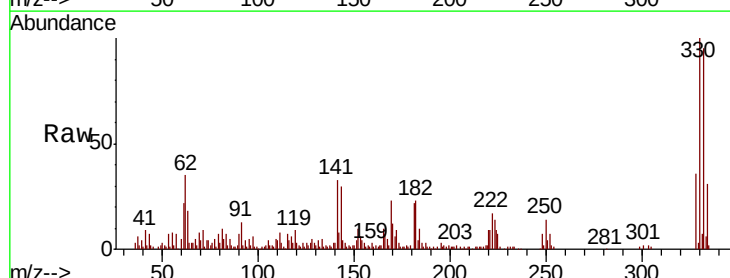
Tgt Ion:330 Resp: 143264

Ion Ratio Lower Upper

330 100

332 94.8 77.2 115.8

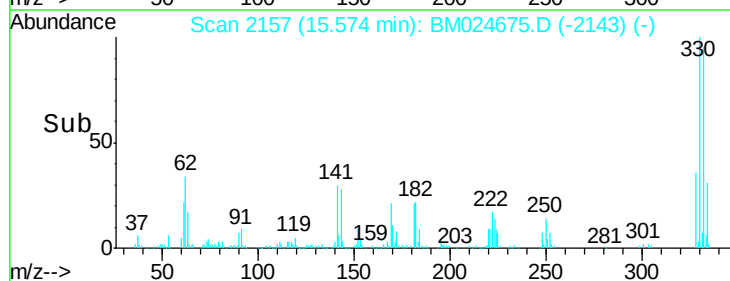
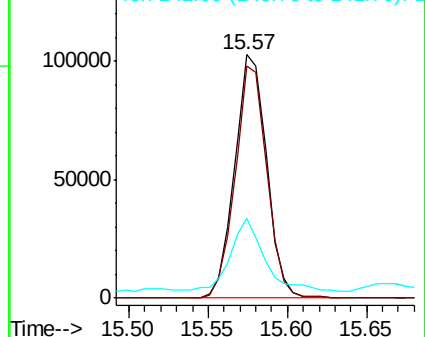
141 31.2 26.9 40.3

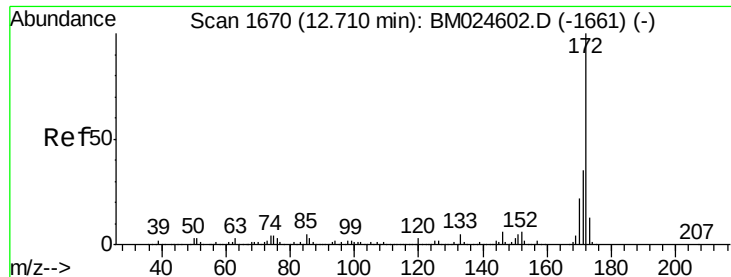


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

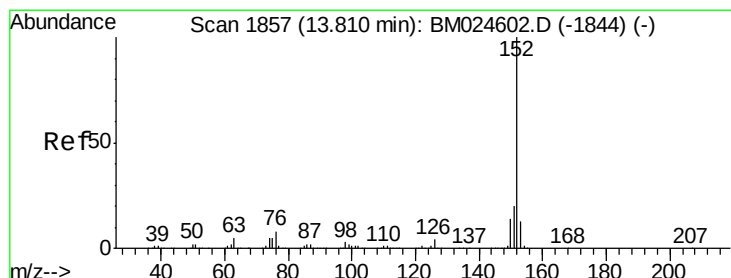
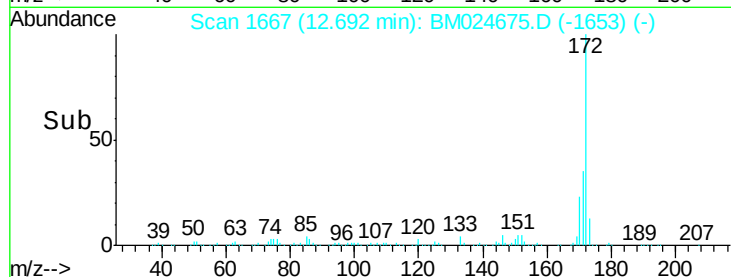
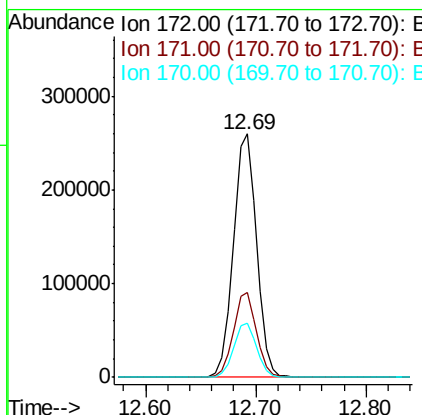
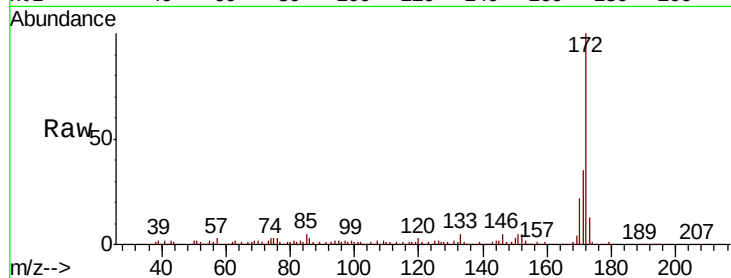




#45
2-Fluorobiphenyl
Concen: 9.963 ng
RT: 12.69 min Scan# 1667
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

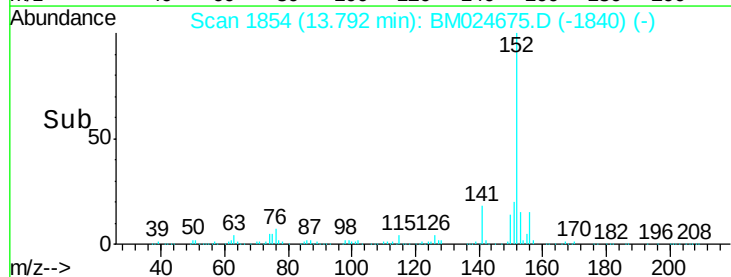
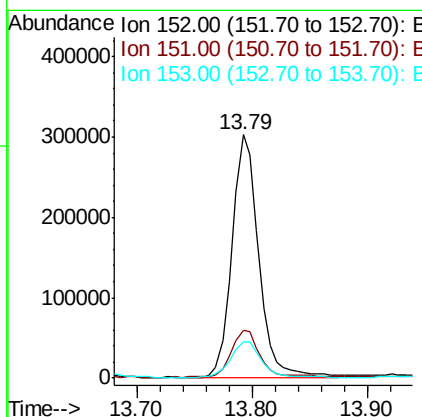
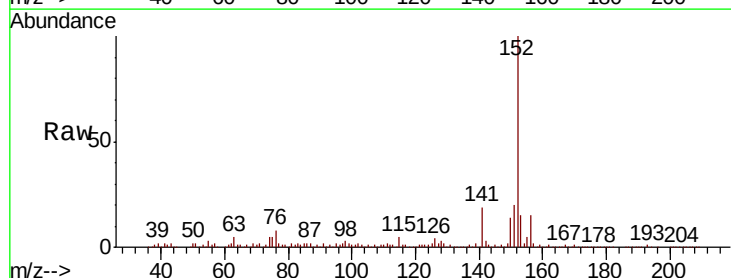
Instrument :
BNA_M
ClientSampleId :

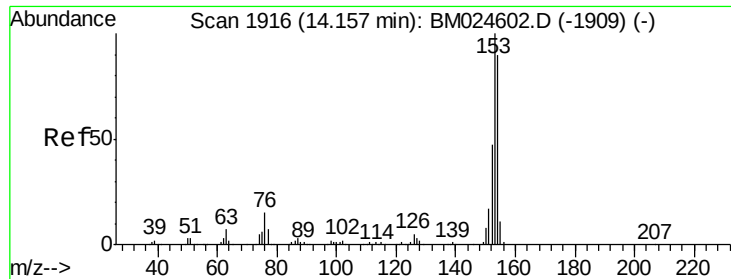
Tot Ion:172 Resp: 384491
Ion Ratio Lower Upper
172 100
171 34.9 28.3 42.5
170 22.5 17.9 26.9



#49
Acenaphthylene
Concen: 10.117 ng
RT: 13.79 min Scan# 1854
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion:152 Resp: 485465
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 15.1 10.4 15.6





#52

Acenaphthene

Concen: 22.787 ng

RT: 14.14 min Scan# 1914

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

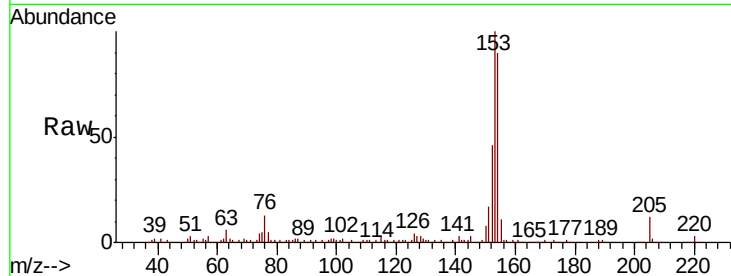
Tot Ion:154 Resp: 678515

Ion Ratio Lower Upper

154 100

153 111.2 89.1 133.7

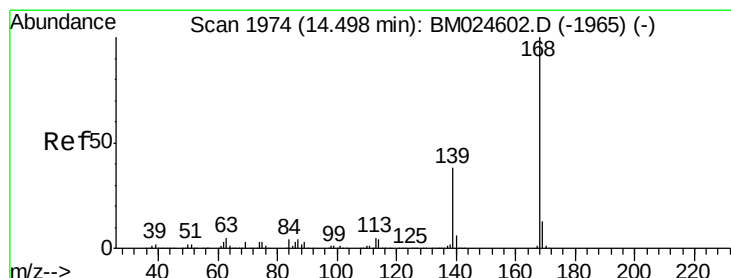
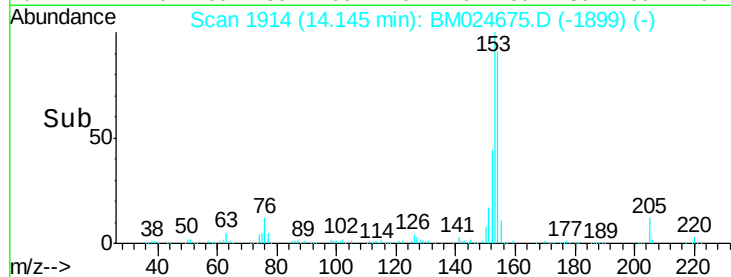
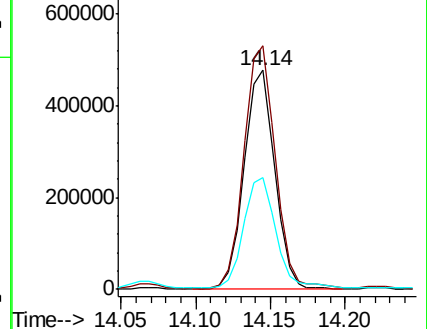
152 51.0 41.9 62.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.025 ng

RT: 14.48 min Scan# 1971

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

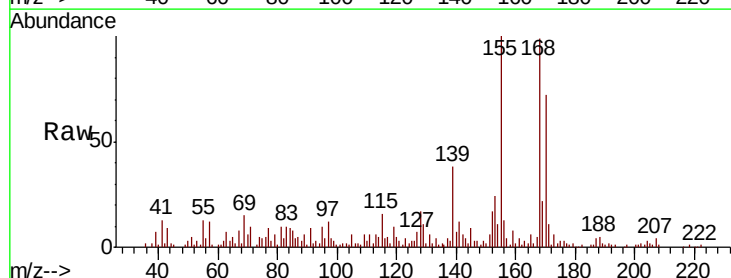
Tgt Ion:168 Resp: 98326

Ion Ratio Lower Upper

168 100

139 38.6 30.2 45.4

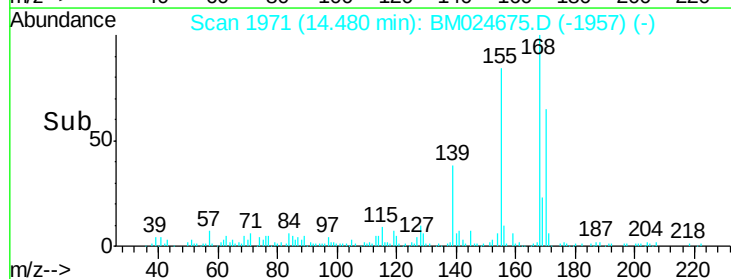
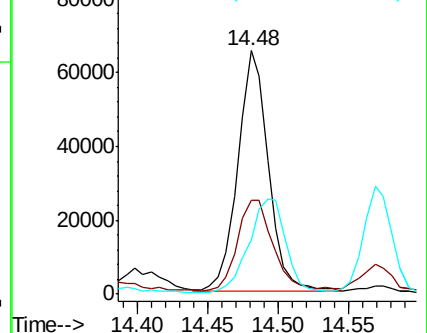
169 22.4 10.7 16.1#

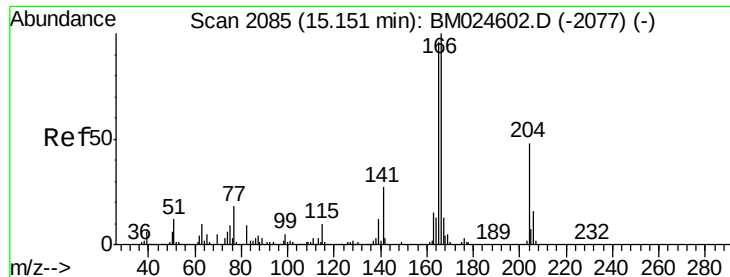


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 17.356 ng

RT: 15.13 min Scan# 2082

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

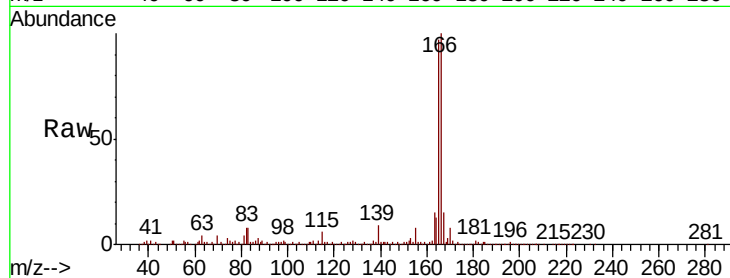
Tot Ion:166 Resp: 708292

Ion Ratio Lower Upper

166 100

165 97.4 76.6 114.8

167 14.6 10.8 16.2



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

15.13

600000

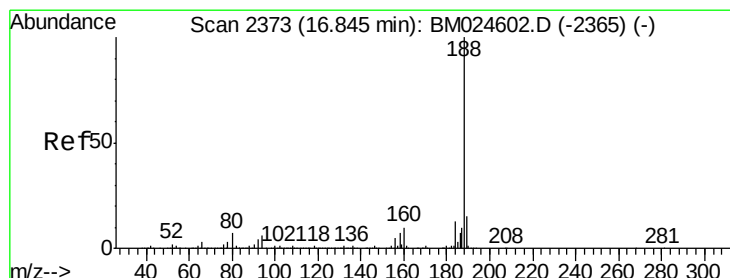
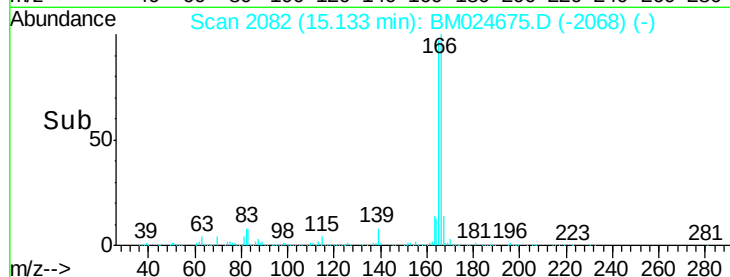
400000

200000

0

15.10 15.20

Time-->



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.83 min Scan# 2371

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

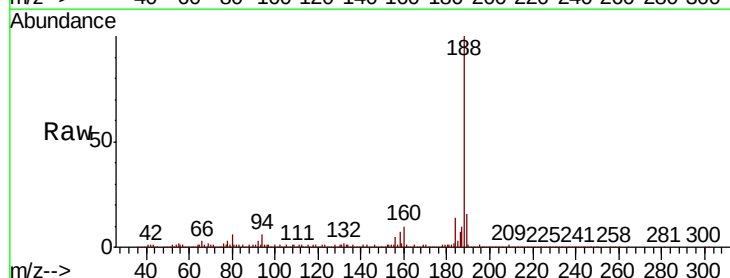
Tgt Ion:188 Resp: 1199763

Ion Ratio Lower Upper

188 100

94 5.8 5.0 7.6

80 6.3 5.8 8.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

16.83

1000000

800000

600000

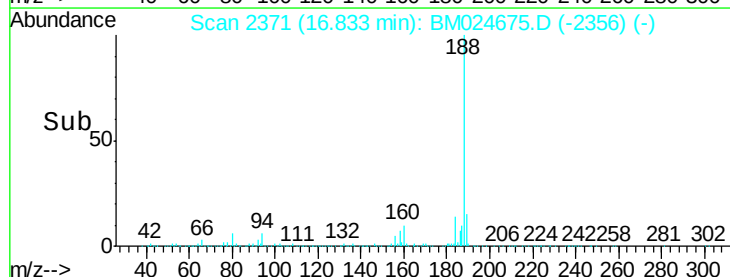
400000

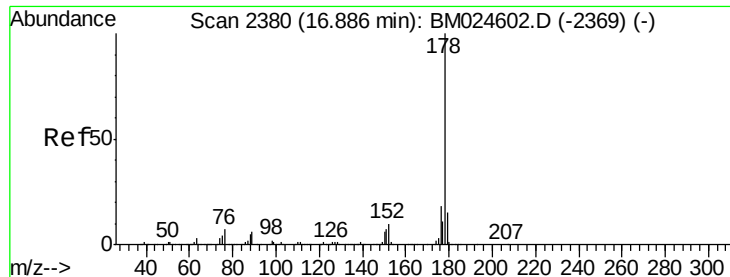
200000

0

16.80 16.90

Time-->

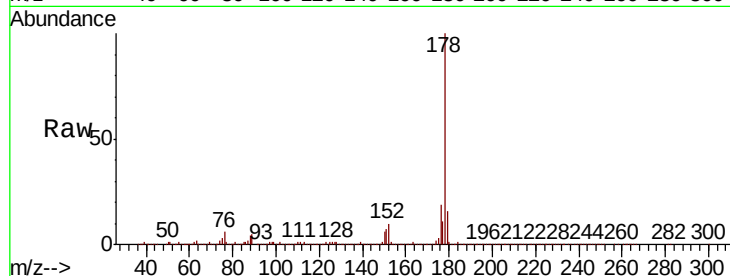




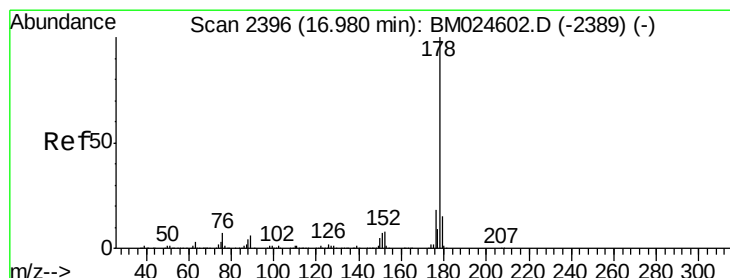
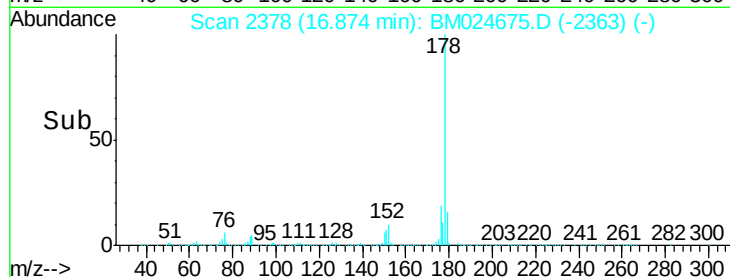
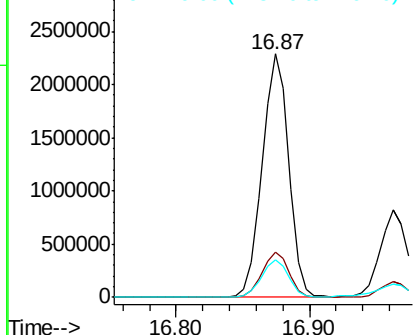
#71
Phenanthrene
Concen: 48.099 ng
RT: 16.87 min Scan# 2378
Delta R.T. -0.01 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Instrument :
BNA_M
ClientSampleId :

Tot Ion:178 Resp: 3124929
Ion Ratio Lower Upper
178 100
176 18.8 14.5 21.7
179 15.7 11.9 17.9

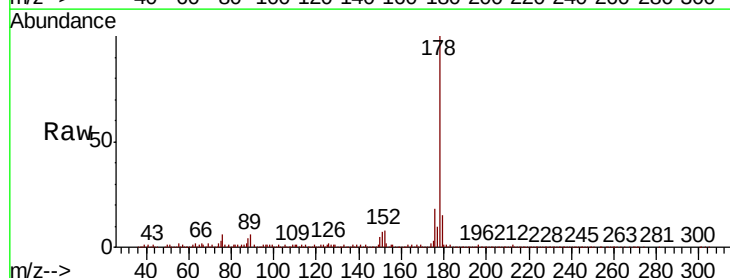


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

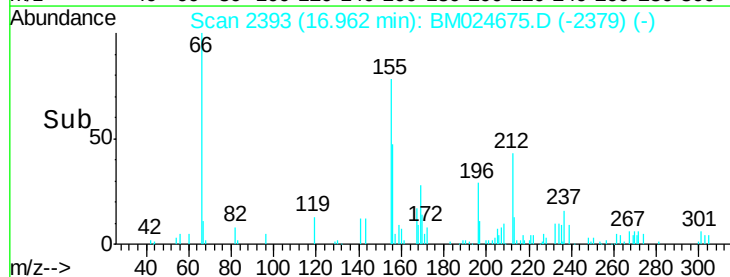
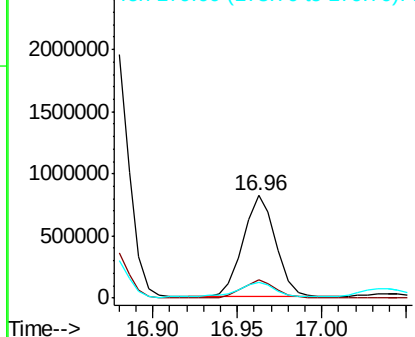


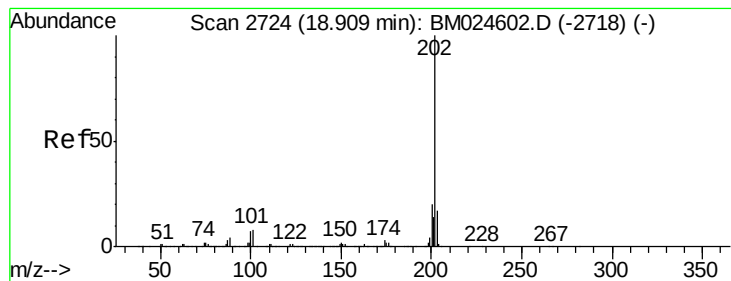
#72
Anthracene
Concen: 17.406 ng
RT: 16.96 min Scan# 2393
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion:178 Resp: 1106490
Ion Ratio Lower Upper
178 100
176 18.1 14.3 21.5
179 15.5 12.1 18.1



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





#75

Fluoranthene

Concen: 25.370 ng

RT: 18.90 min Scan# 2723

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

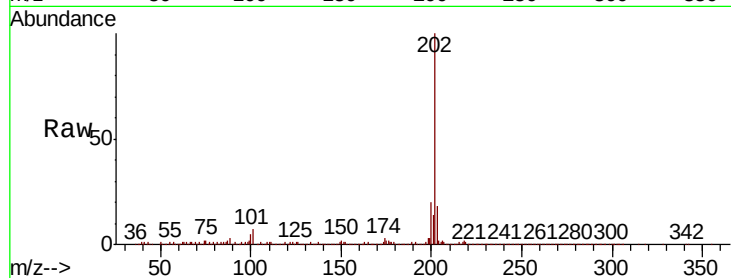
Tot Ion:202 Resp: 2057183

Ion Ratio Lower Upper

202 100

101 6.8 0.0 28.4

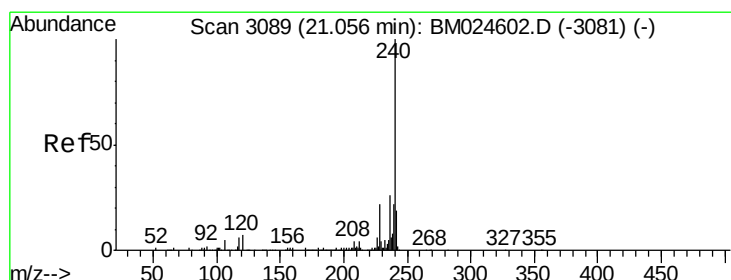
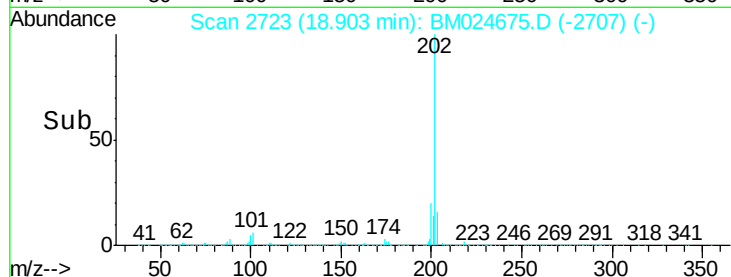
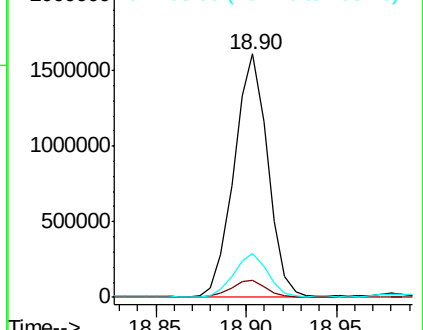
203 18.1 0.0 37.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.04 min Scan# 3086

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

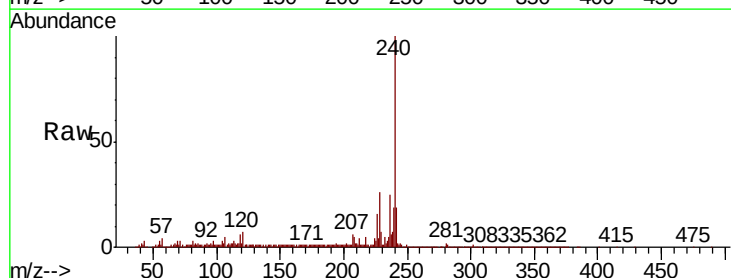
Tgt Ion:240 Resp: 1321362

Ion Ratio Lower Upper

240 100

120 7.1 5.3 7.9

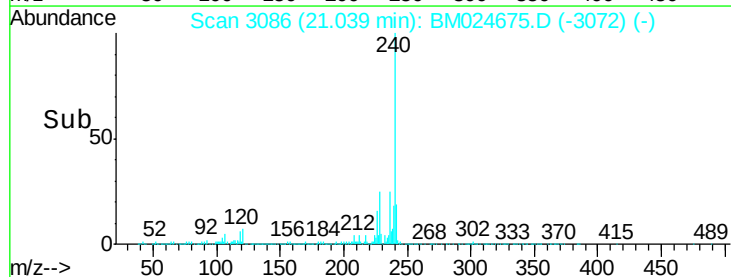
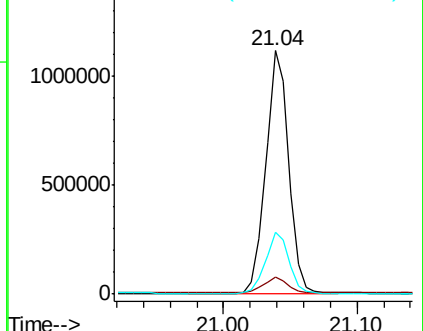
236 25.2 20.6 31.0

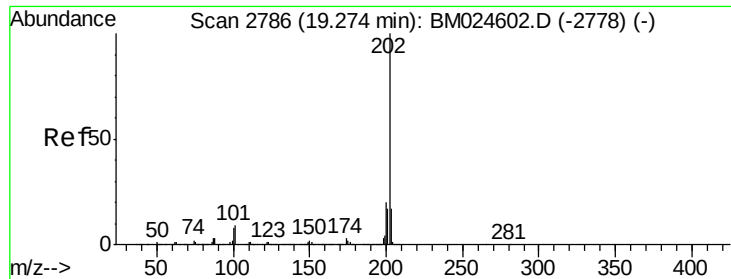


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

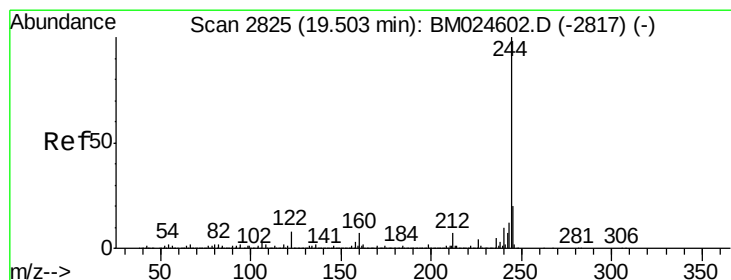
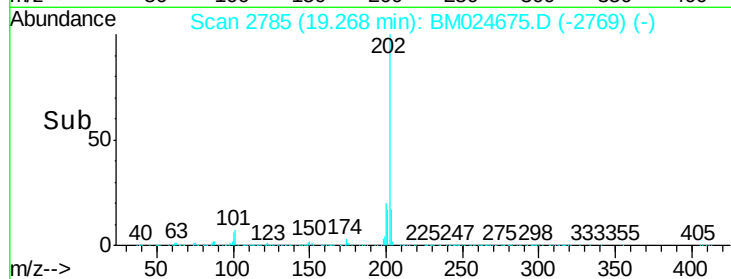
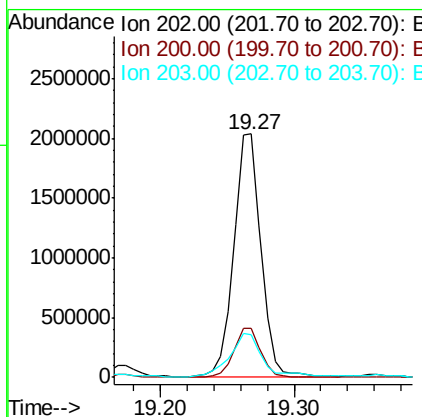
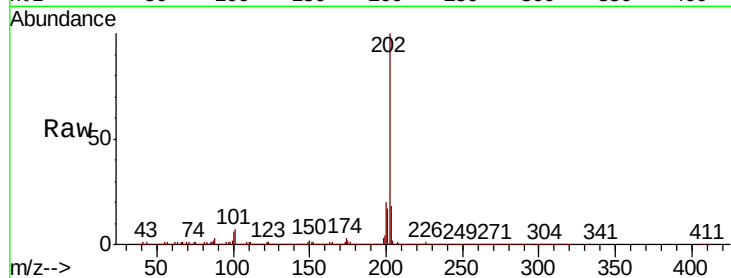




#78
Pvrene
Concen: 32.821 ng
RT: 19.27 min Scan# 2785
Delta R.T. -0.01 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

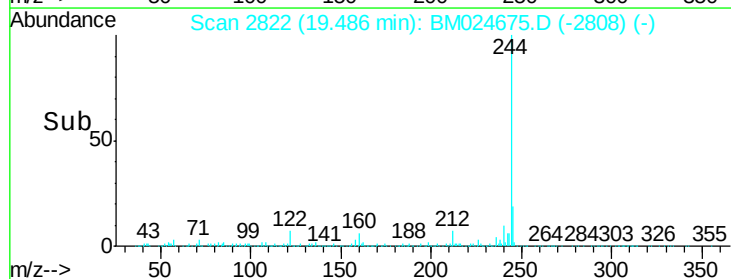
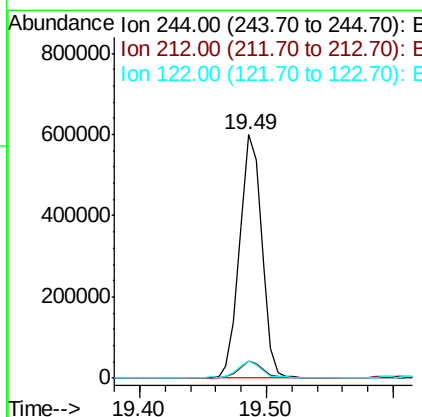
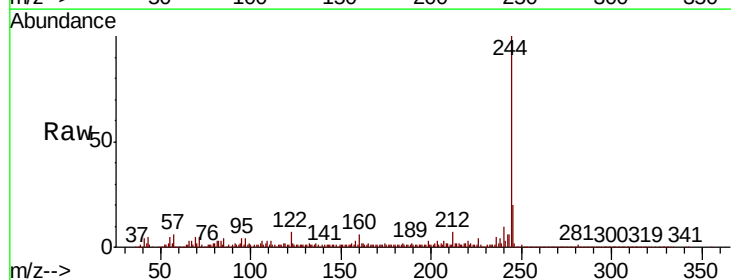
Instrument :
BNA_M
ClientSampled :

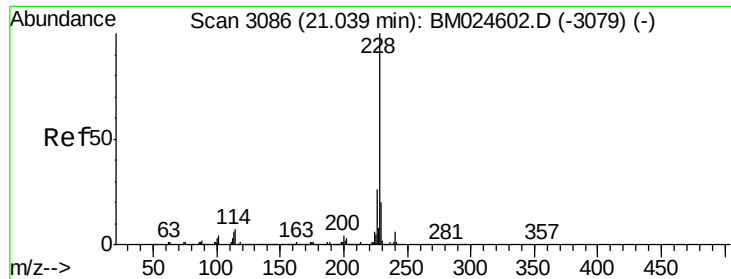
Tot Ion:202 Resp: 2858991
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 17.8 14.0 21.0



#79
Terphenyl-d14
Concen: 10.182 ng
RT: 19.49 min Scan# 2822
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion:244 Resp: 720699
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.2
122 7.0 6.2 9.4





#81

Benzo(a)anthracene

Concen: 11.952 ng

RT: 21.07 min Scan# 3092

Delta R.T. 0.04 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

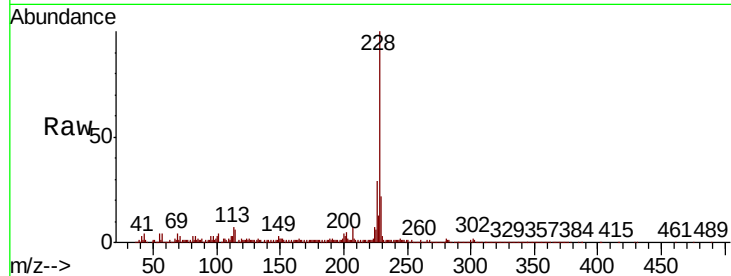
Tot Ion:228 Resp: 1096113

Ion Ratio Lower Upper

228 100

226 29.3 21.1 31.7

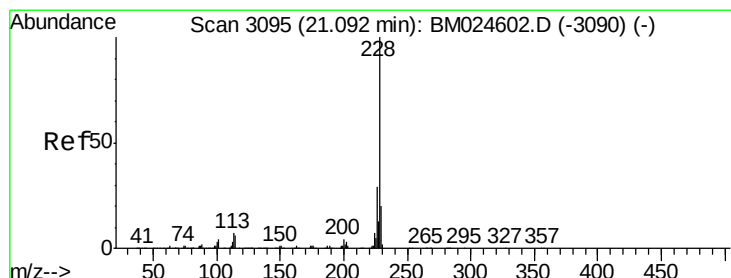
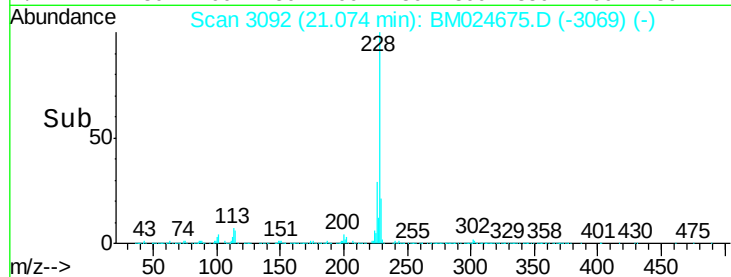
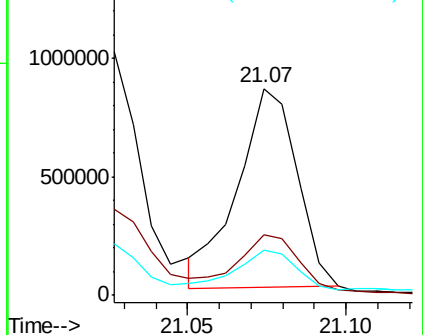
229 21.9 15.8 23.6



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



#83

Chrysene

Concen: 13.474 ng

RT: 21.07 min Scan# 3092

Delta R.T. -0.02 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

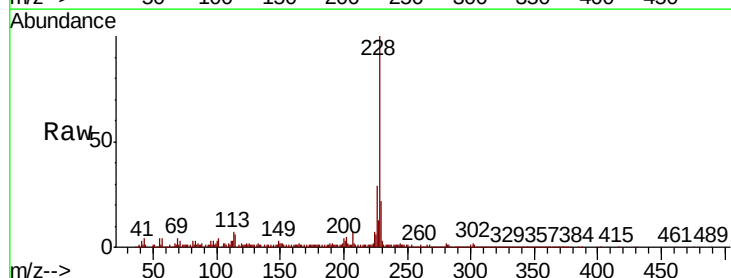
Tgt Ion:228 Resp: 1179109

Ion Ratio Lower Upper

228 100

226 29.3 23.2 34.8

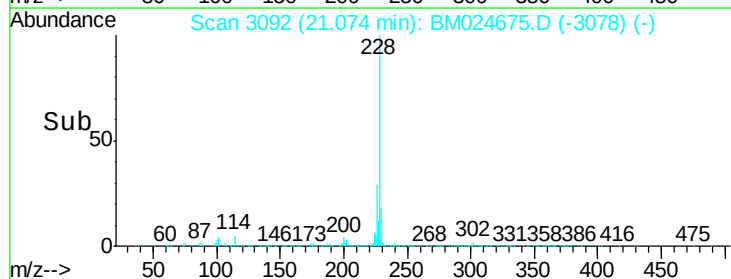
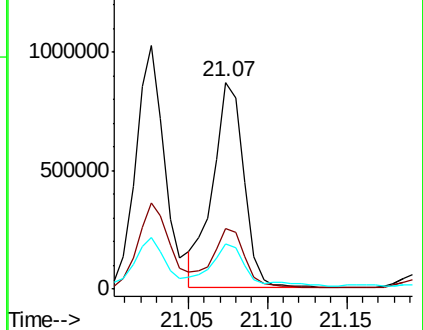
229 21.9 15.7 23.5

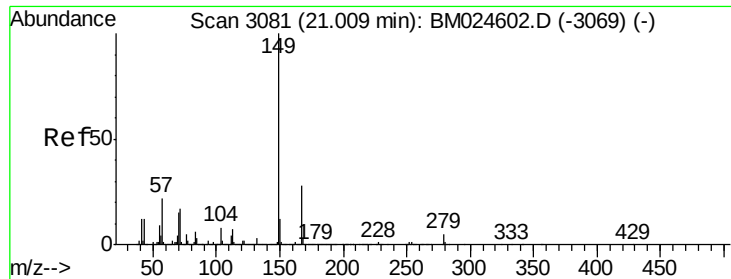


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 31.123 ng

RT: 21.00 min Scan# 3079

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

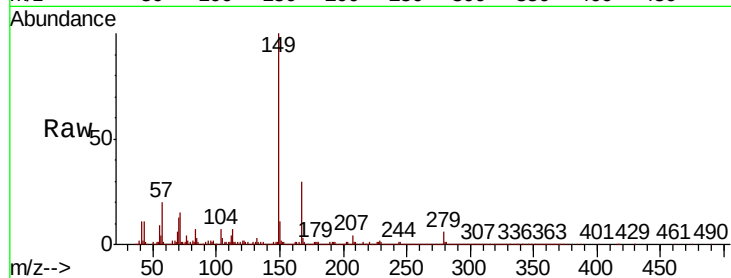
Instrument :

BNA_M

ClientSampleId :

Tot Ion:149 Resp: 1678548

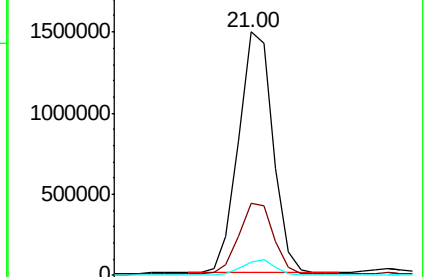
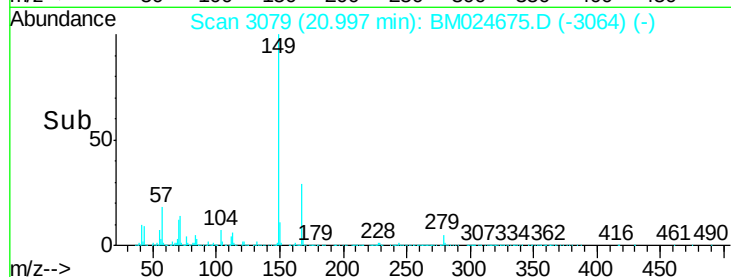
Ion	Ratio	Lower	Upper
149	100		
167	29.7	22.5	33.7
279	5.6	4.0	6.0



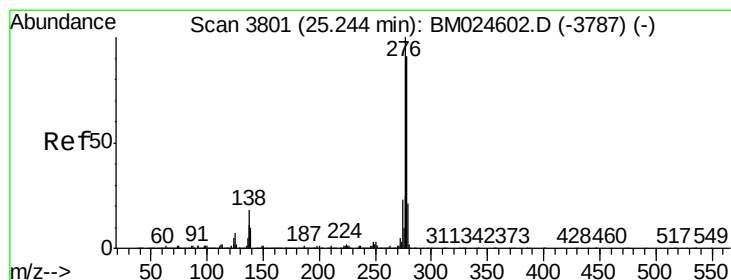
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.070 ng

RT: 25.21 min Scan# 3795

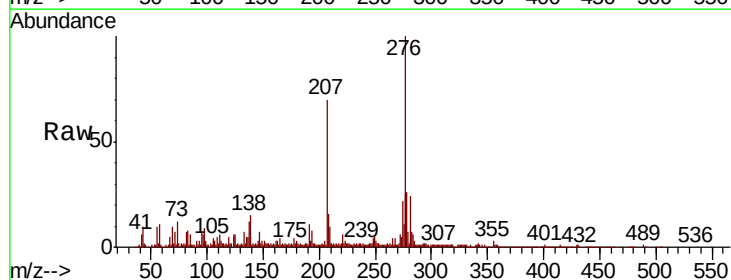
Delta R.T. -0.04 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Tgt Ion:276 Resp: 483621

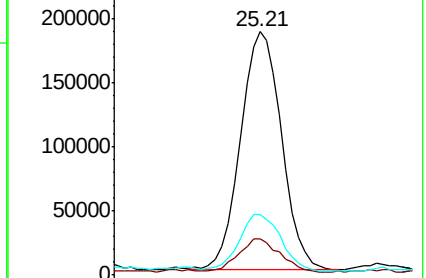
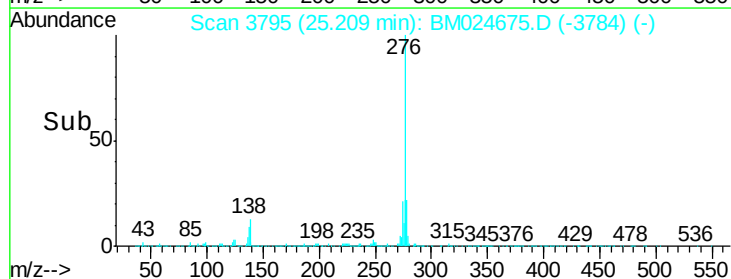
Ion	Ratio	Lower	Upper
276	100		
138	13.6	13.4	20.0
277	24.8	19.6	29.4



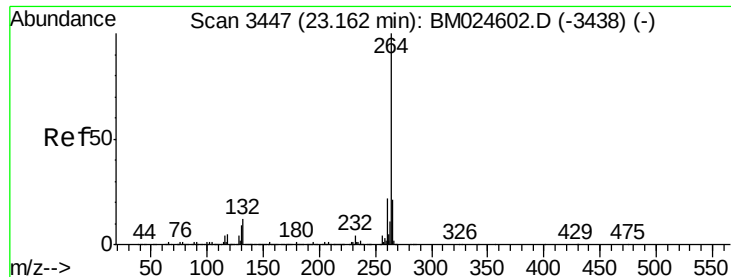
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.15 min Scan# 3445

Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

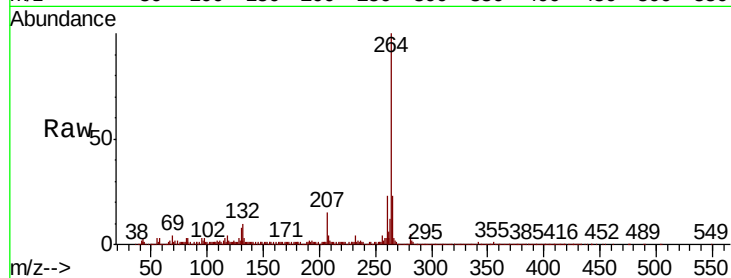
Instrument :

BNA_M

ClientSampleId :

Tot Ion:264 Resp: 1588560

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.8	17.3	25.9

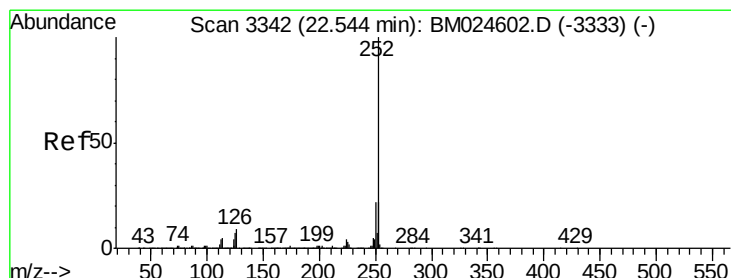
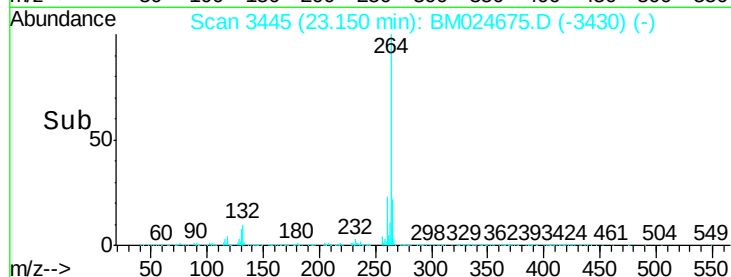
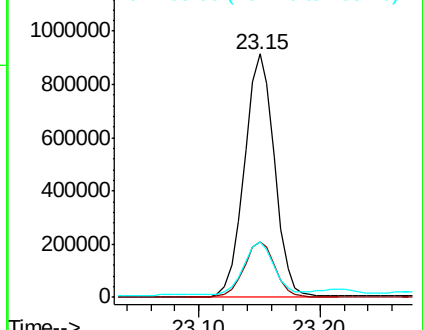


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 13.604 ng

RT: 22.53 min Scan# 3340

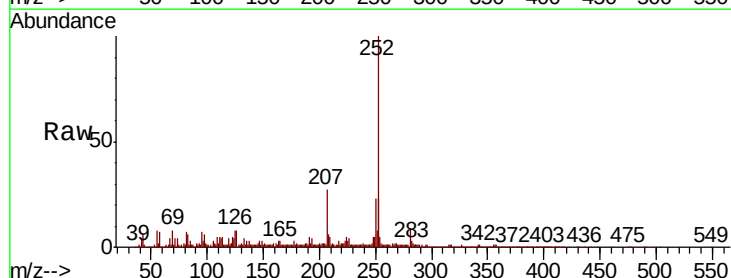
Delta R.T. -0.01 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Tgt Ion:252 Resp: 1401610

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	8.4	5.7	8.5

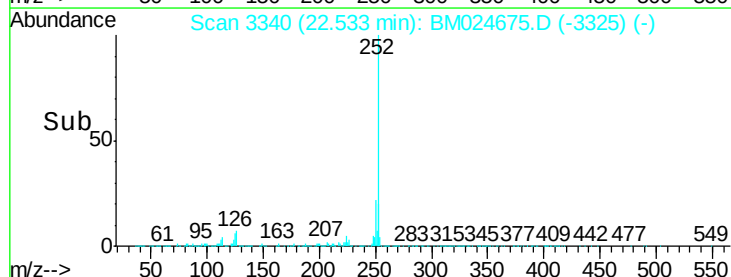
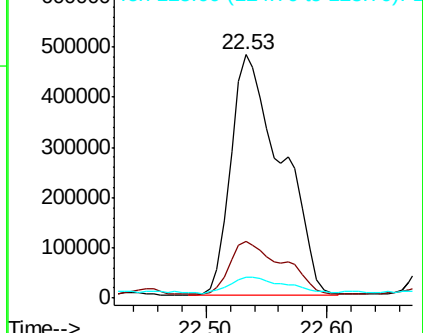


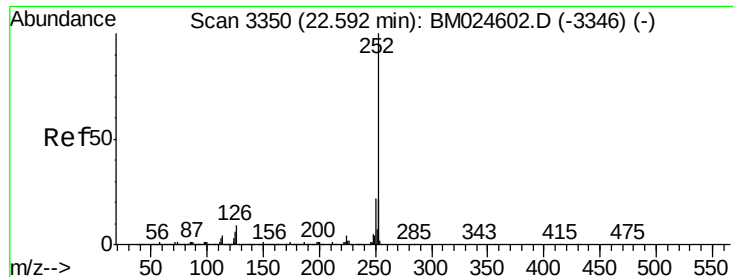
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

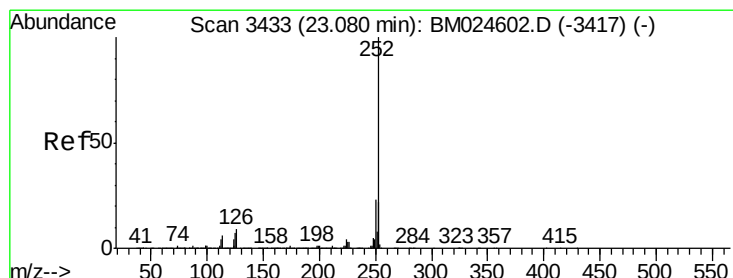
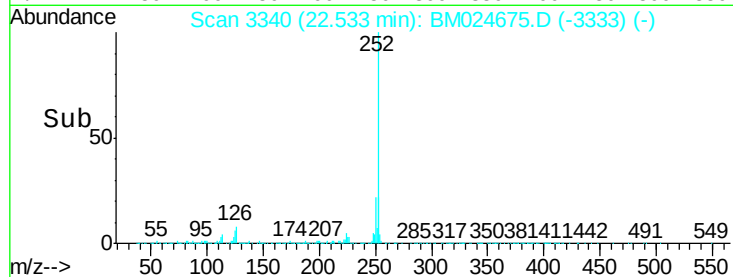
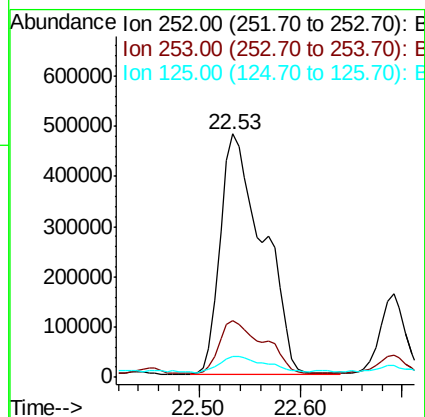
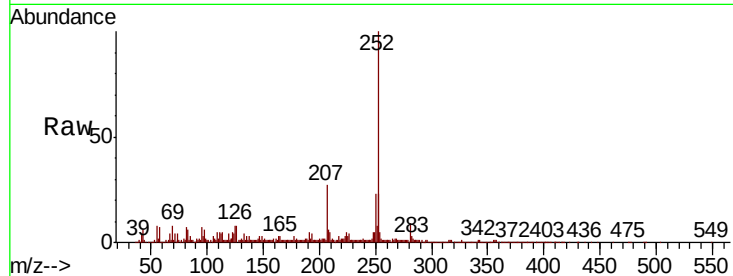




#89
Benzo(k)fluoranthene
Concen: 13.888 ng
RT: 22.53 min Scan# 3340
Delta R.T. -0.06 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

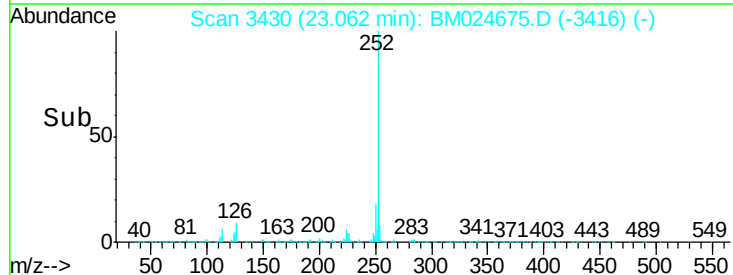
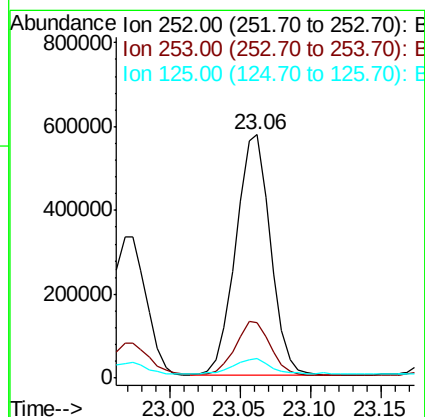
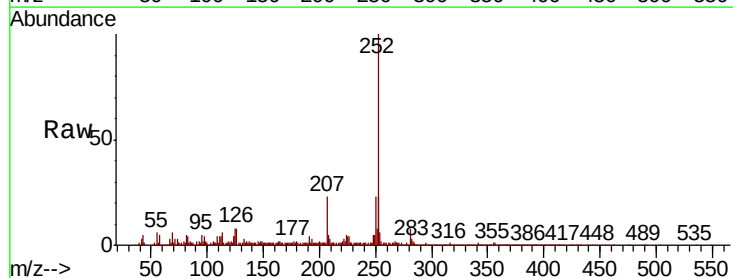
Instrument :
BNA_M
ClientSampleId :

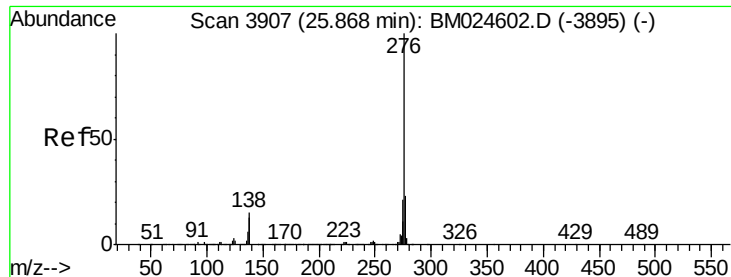
Tot Ion:252 Resp: 1396707
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 8.4 5.2 7.8#



#90
Benzo(a)pyrene
Concen: 10.493 ng
RT: 23.06 min Scan# 3430
Delta R.T. -0.02 min
Lab File: BM024675.D
Acq: 31 Jan 2020 01:06

Tgt Ion:252 Resp: 982946
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 8.2 5.8 8.8





#92

Benzo(a,h,i)perylene

Concen: 5.891 ng

RT: 25.84 min Scan# 3902

Delta R.T. -0.03 min

Lab File: BM024675.D

Acq: 31 Jan 2020 01:06

Instrument :

BNA_M

ClientSampleId :

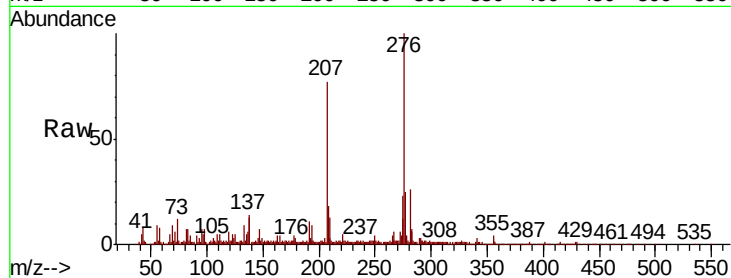
Tot Ion: 276 Resp: 475547

Ion Ratio Lower Upper

276 100

277 24.8 18.6 28.0

138 13.1 11.9 17.9



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

