

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
 Data File : BM024703.D
 Acq On : 03 Feb 2020 17:36
 Operator : CG/JU
 Sample : L1351-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Feb 04 03:00:09 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	7.42	152	252069	20.00	ng	-0.02
21) Naphthalene-d8	10.18	136	946399	20.00	ng	-0.02
39) Acenaphthene-d10	14.07	164	622647	20.00	ng	-0.02
64) Phenanthrene-d10	16.83	188	1304934	20.00	ng	-0.02
76) Chrysene-d12	21.04	240	1268436	20.00	ng	-0.01
87) Perylene-d12	23.16	264	1512295	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.07	112	1317320	99.39	ng	-0.01
7) Phenol-d6	6.63	99	1646709	90.19	ng	-0.02
23) Nitrobenzene-d5	8.56	82	1050153	54.42	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	953992	94.19	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	2348003	51.27	ng	-0.02
79) Terphenyl-d14	19.49	244	3657049	53.82	ng	-0.02

Target Compounds

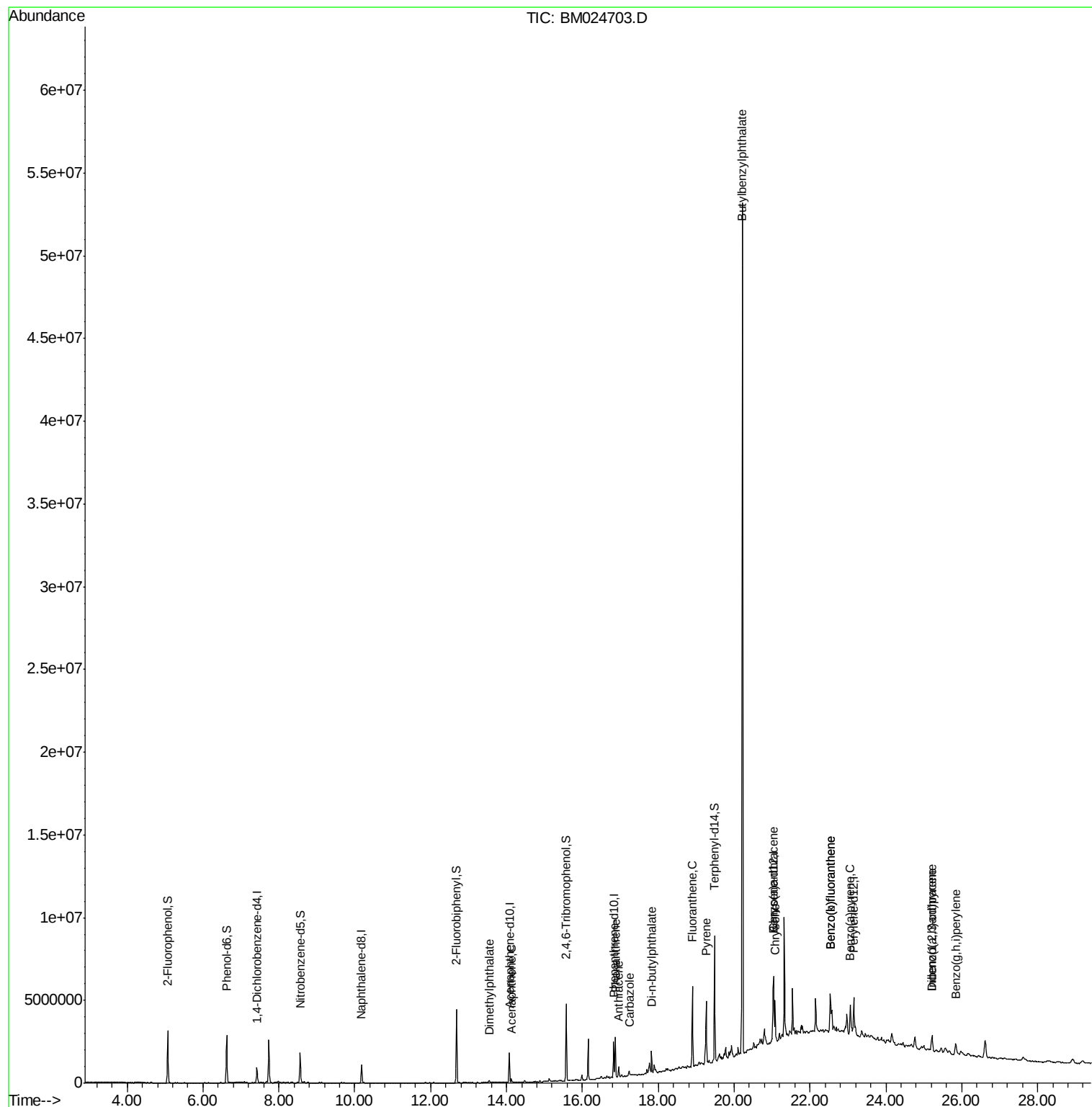
						Qvalue
50) Dimethylphthalate	13.54	163	105408	2.094	ng	98
52) Acenaphthene	14.14	154	93136	2.636	ng	99
71) Phenanthrene	16.87	178	1505002	21.298	ng	99
72) Anthracene	16.96	178	404913	5.856	ng	98
73) Carbazole	17.23	167	200280	3.182	ng	99
74) Di-n-butylphthalate	17.83	149	848810	10.548	ng	100
75) Fluoranthene	18.90	202	2984263	33.837	ng	99
78) Pyrene	19.26	202	2483996	29.706	ng	99
80) Butylbenzylphthalate	20.22	149	17335380	494.054	ng	# 85
81) Benzo(a)anthracene	21.03	228	1491410	16.941	ng	99
83) Chrysene	21.08	228	1370011	16.309	ng	97
86) Indeno(1,2,3-cd)pyrene	25.22	276	888374	9.703	ng	97
88) Benzo(b)fluoranthene	22.54	252	2529224	25.786	ng	# 96
89) Benzo(k)fluoranthene	22.54	252	2526004	26.384	ng	# 95
90) Benzo(a)pyrene	23.06	252	1285938	14.420	ng	# 95
91) Dibenzo(a,h)anthracene	25.22	278	231491	2.735	ng	# 88
92) Benzo(a,h,i)perylene	25.84	276	846552	11.015	ng	98

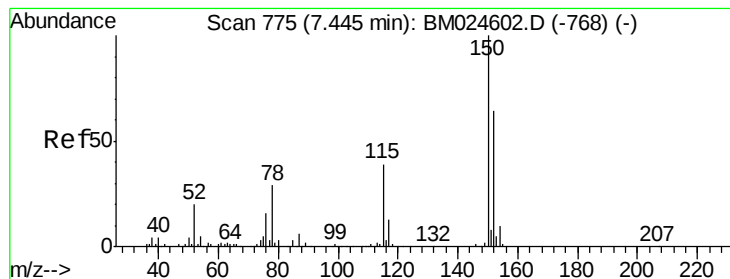
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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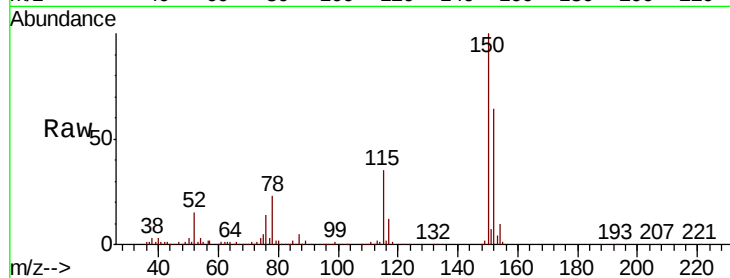




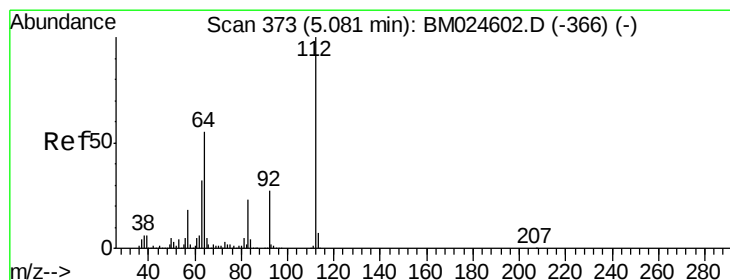
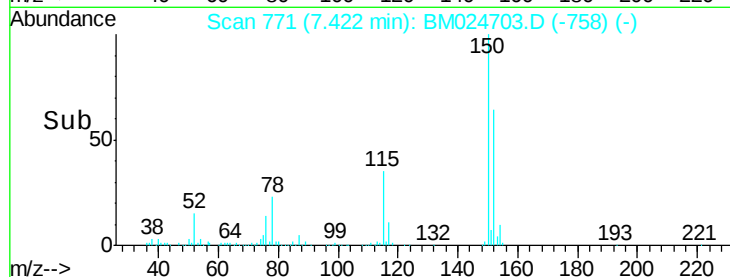
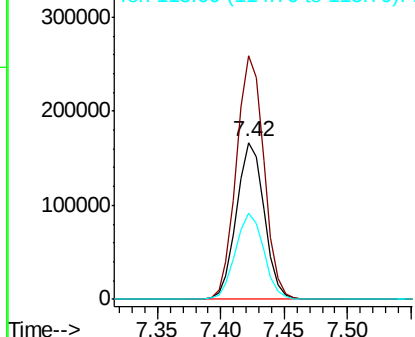
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.42 min Scan# 771
 Delta R.T. -0.02 min
 Lab File: BM024703.D
 Acq: 03 Feb 2020 17:36

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:152 Resp: 252069
 Ion Ratio Lower Upper
 152 100
 150 155.1 124.2 186.4
 115 55.0 48.6 72.8

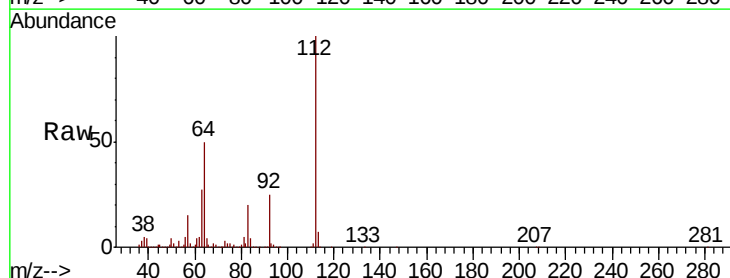


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

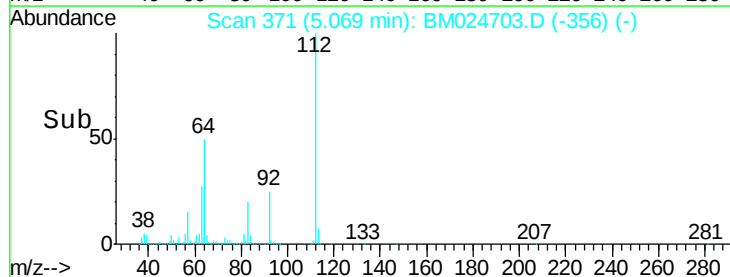
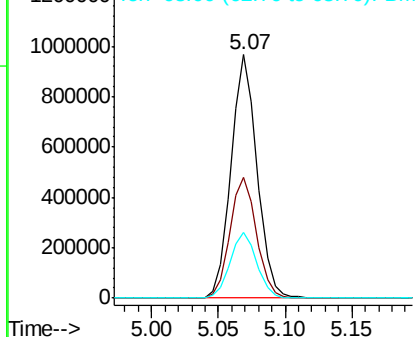


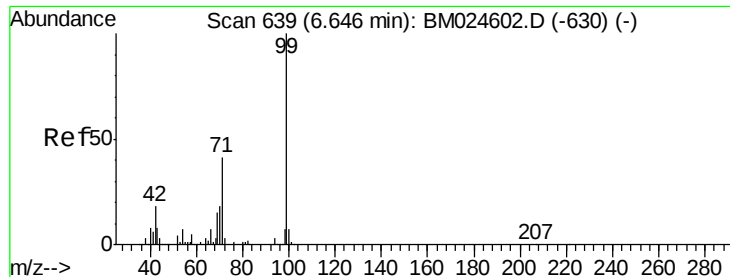
#5
 2-Fluorophenol
 Concen: 99.386 ng
 RT: 5.07 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: BM024703.D
 Acq: 03 Feb 2020 17:36

Tgt Ion:112 Resp: 1317320
 Ion Ratio Lower Upper
 112 100
 64 49.7 44.2 66.4
 63 27.1 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: 90.186 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

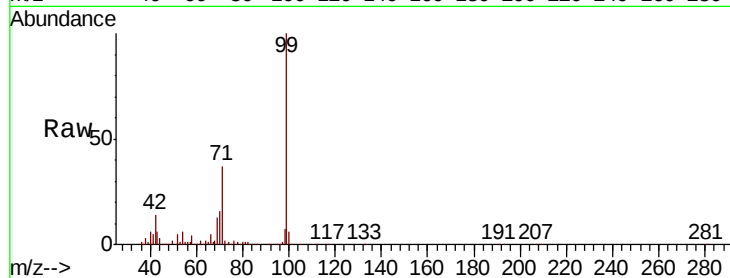
Instrument :

BNA_M

ClientSampled :

Tot Ion: 99 Resp: 1646709

Ion	Ratio	Lower	Upper
99	100		
42	14.4	14.1	21.1
71	36.6	33.0	49.6

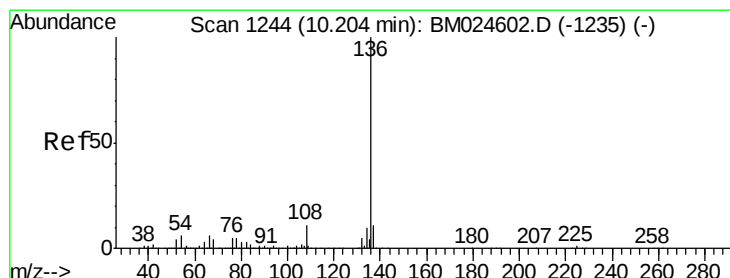
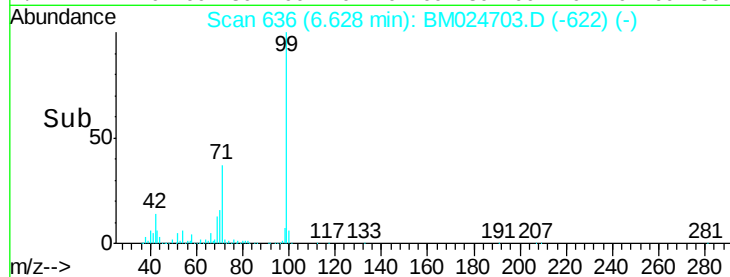


Abundance

Ion 99.00 (98.70 to 99.70): BM024703.D (-622) (-)

Ion 42.00 (41.70 to 42.70): BM024703.D (-622) (-)

Ion 71.00 (70.70 to 71.70): BM024703.D (-622) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

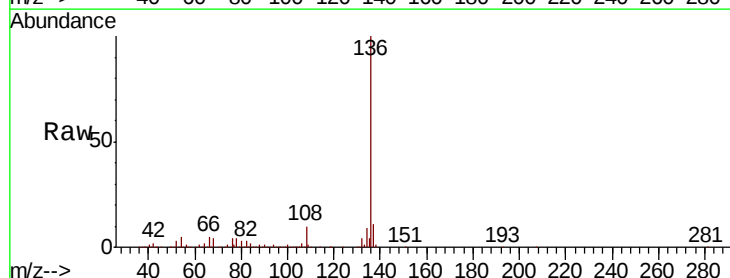
Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Tgt Ion: 136 Resp: 946399

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	4.6	4.5	6.7
68	4.1	3.4	5.0



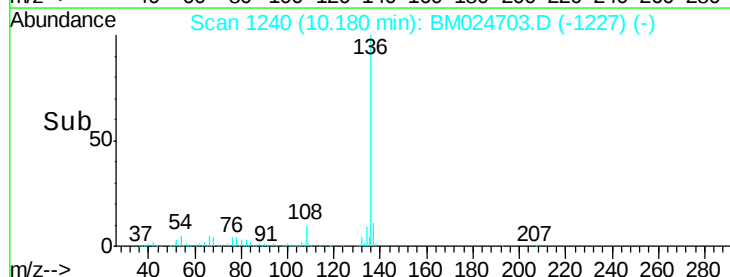
Abundance

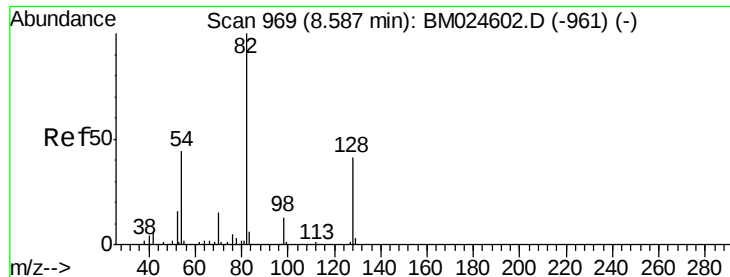
Ion 136.00 (135.70 to 136.70): BM024703.D (-1227) (-)

Ion 137.00 (136.70 to 137.70): BM024703.D (-1227) (-)

Ion 54.00 (53.70 to 54.70): BM024703.D (-1227) (-)

Ion 68.00 (67.70 to 68.70): BM024703.D (-1227) (-)

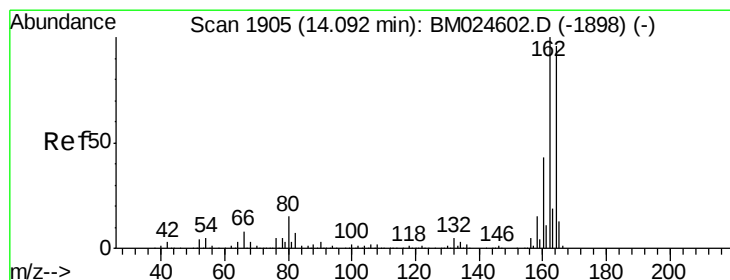
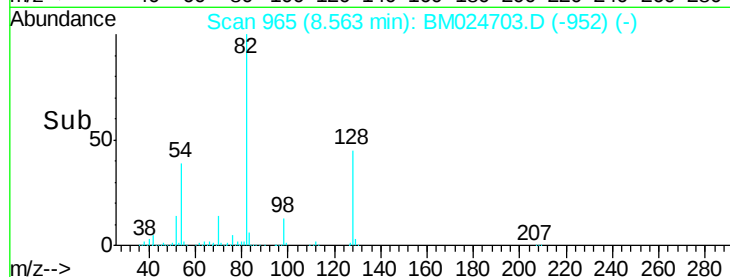
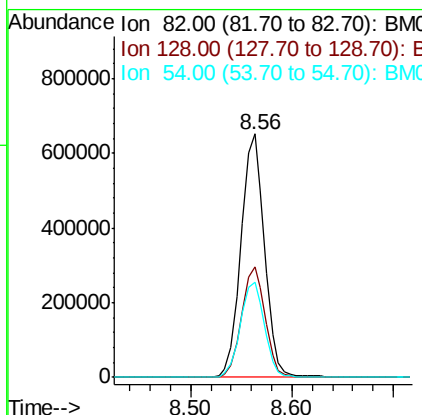
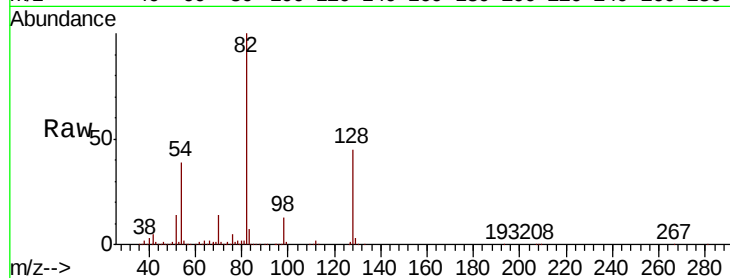




#23
Nitrobenzene-d5
Concen: 54.418 ng
RT: 8.56 min Scan# 965
Delta R.T. -0.02 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

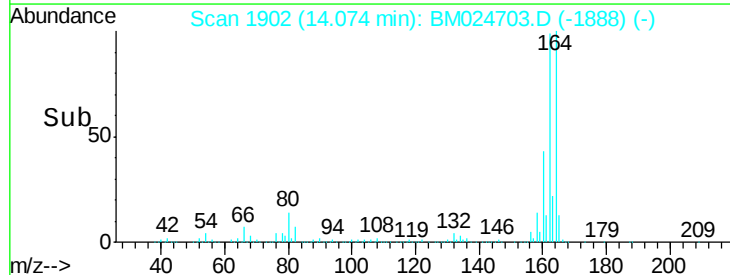
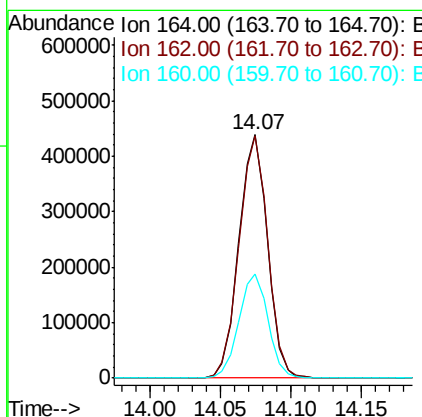
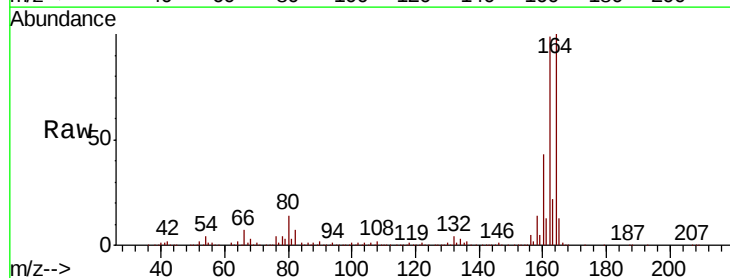
Instrument :
BNA_M
ClientSampled :

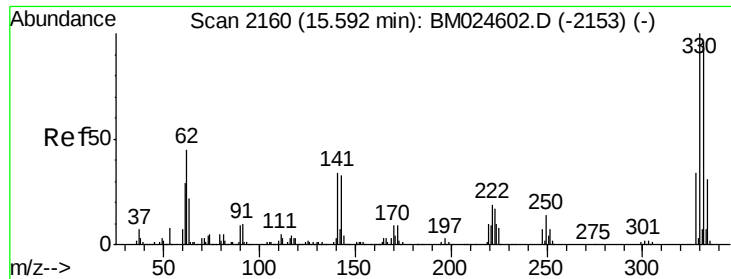
Tot Ion: 82 Resp: 1050153
Ion Ratio Lower Upper
82 100
128 45.4 32.6 48.8
54 39.2 34.8 52.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.07 min Scan# 1902
Delta R.T. -0.02 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

Tgt Ion: 164 Resp: 622647
Ion Ratio Lower Upper
164 100
162 99.3 82.9 124.3
160 42.9 35.5 53.3





#42

2,4,6-Tribromophenol

Concen: 94.191 ng

RT: 15.57 min Scan# 2157

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

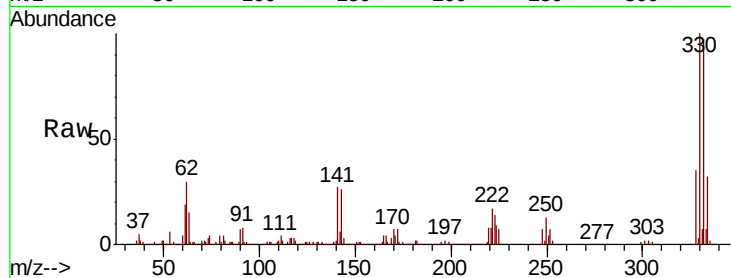
Tot Ion:330 Resp: 953992

Ion Ratio Lower Upper

330 100

332 97.0 77.2 115.8

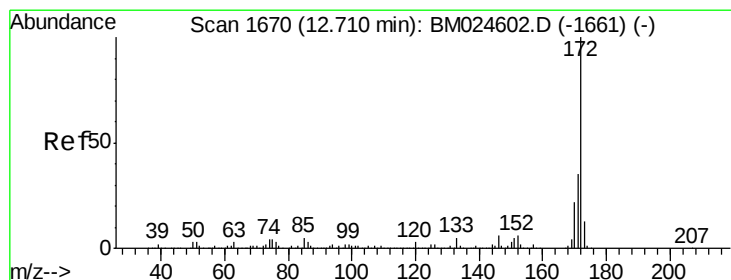
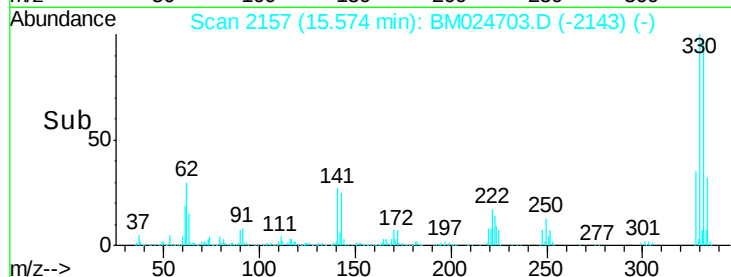
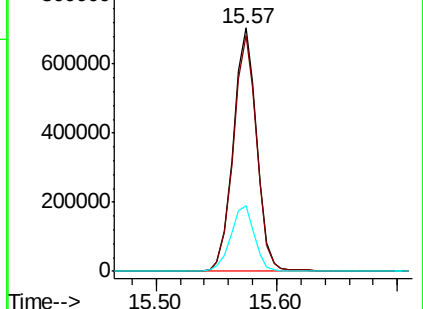
141 27.0 26.9 40.3



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: 51.267 ng

RT: 12.69 min Scan# 1666

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

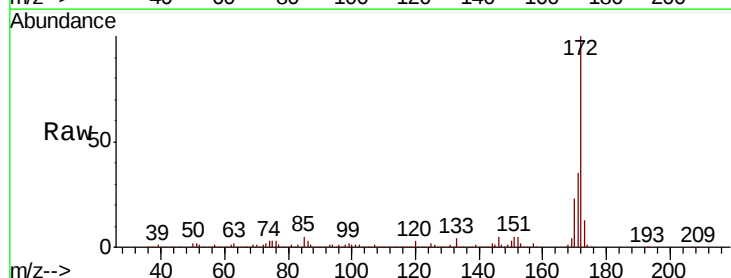
Tgt Ion:172 Resp: 2348003

Ion Ratio Lower Upper

172 100

171 35.3 28.3 42.5

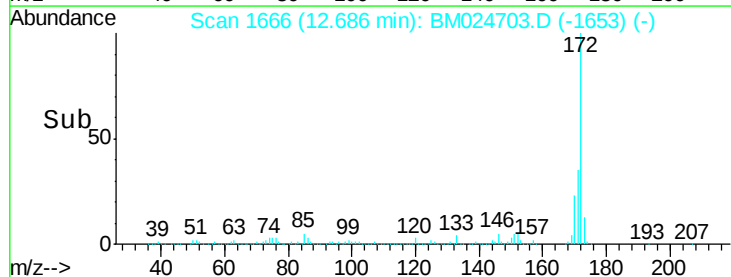
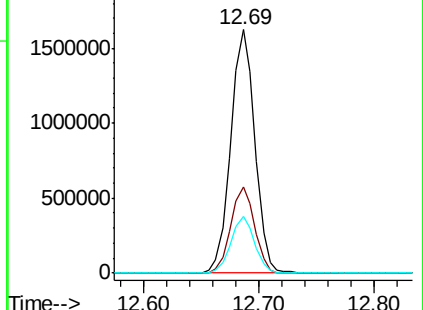
170 23.1 17.9 26.9

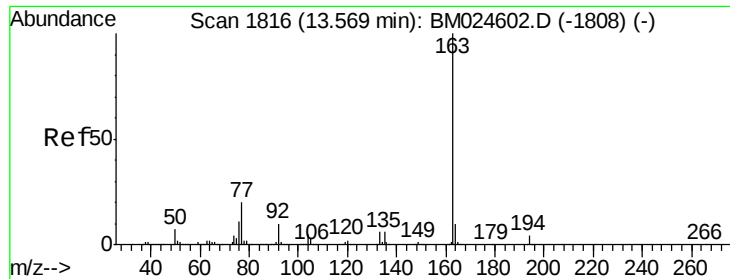


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

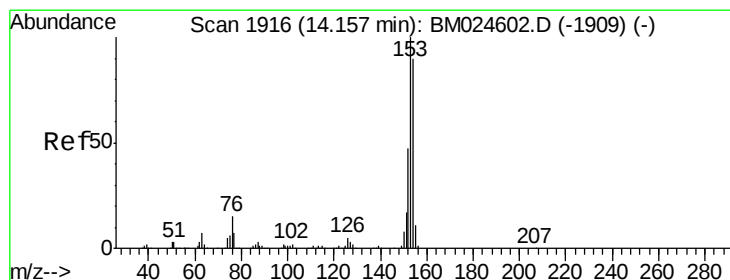
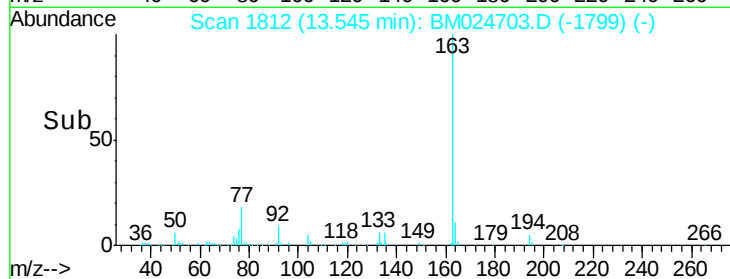
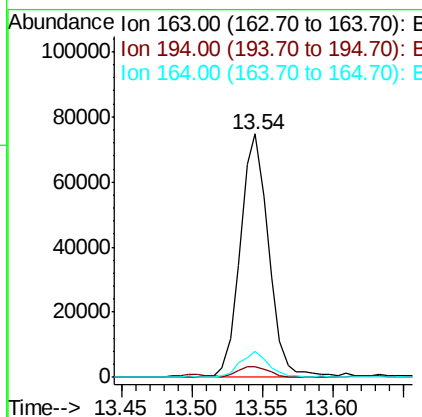
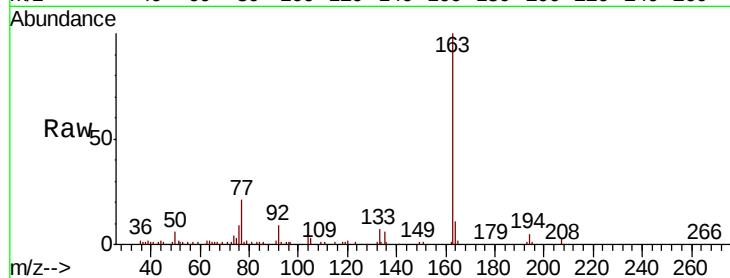




#50
Dimethylphthalate
Concen: 2.094 ng
RT: 13.54 min Scan# 1812
Delta R.T. -0.02 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

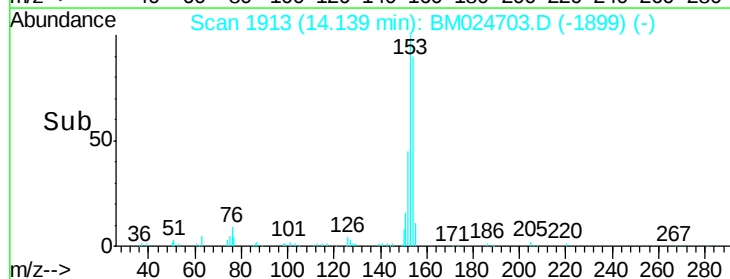
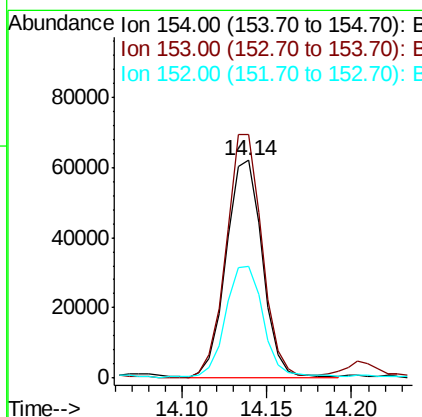
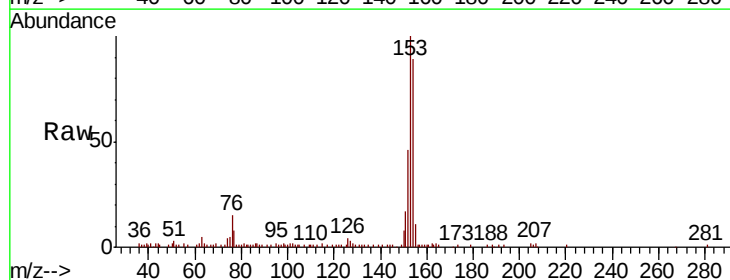
Instrument :
BNA_M
ClientSampleId :

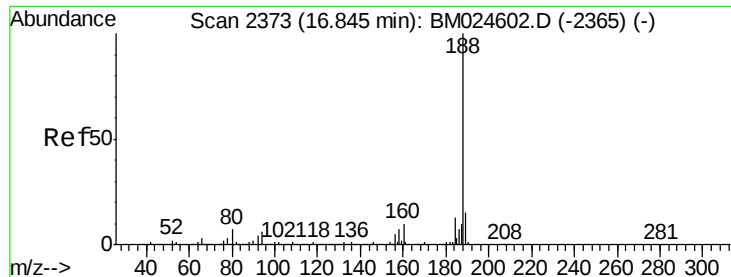
Tot Ion:163 Resp: 105408
Ion Ratio Lower Upper
163 100
194 4.6 3.4 5.0
164 10.6 8.0 12.0



#52
Acenaphthene
Concen: 2.636 ng
RT: 14.14 min Scan# 1913
Delta R.T. -0.02 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

Tgt Ion:154 Resp: 93136
Ion Ratio Lower Upper
154 100
153 111.8 89.1 133.7
152 51.6 41.9 62.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.83 min Scan# 2370

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

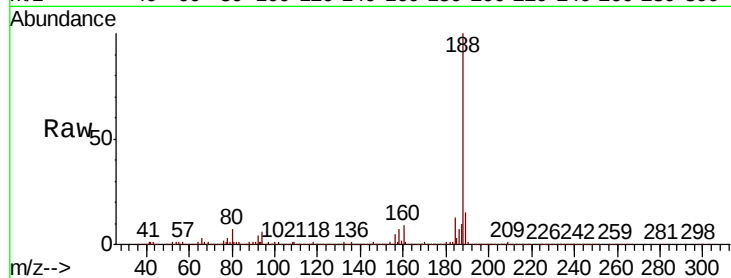
Tot Ion:188 Resp: 1304934

Ion Ratio Lower Upper

188 100

94 6.1 5.0 7.6

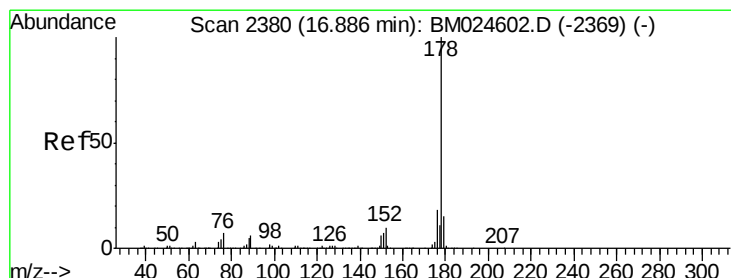
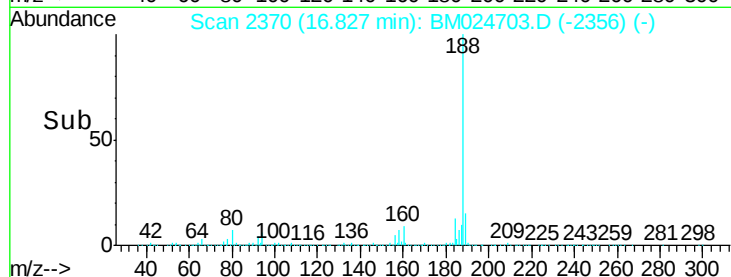
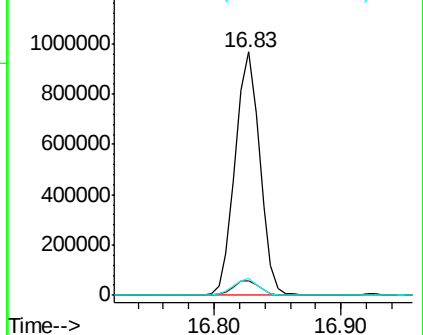
80 7.2 5.8 8.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 21.298 ng

RT: 16.87 min Scan# 2377

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

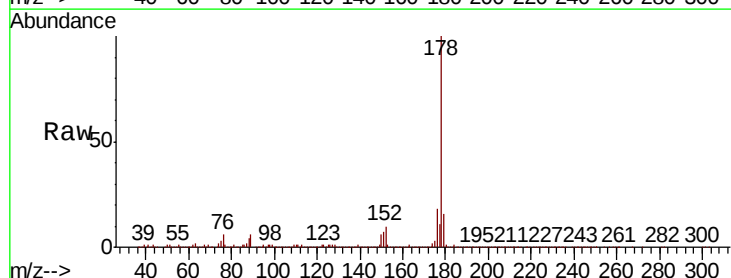
Tgt Ion:178 Resp: 1505002

Ion Ratio Lower Upper

178 100

176 18.3 14.5 21.7

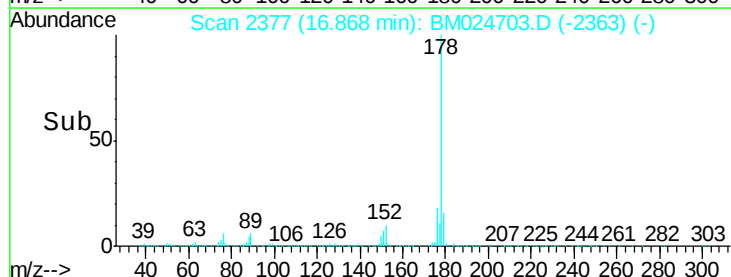
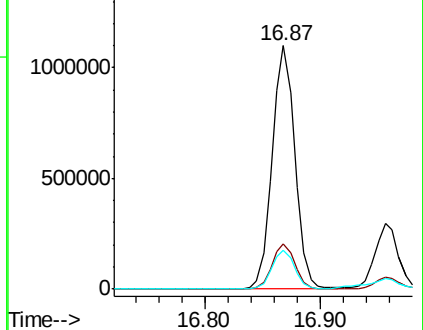
179 15.7 11.9 17.9

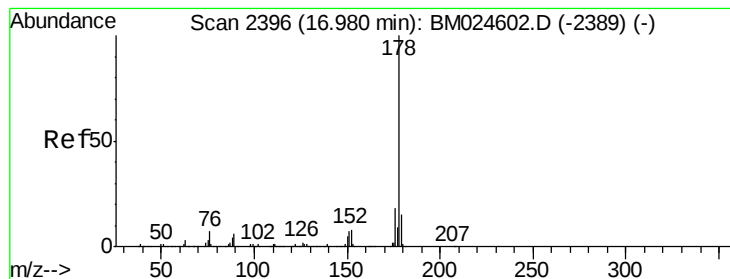


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 5.856 ng

RT: 16.96 min Scan# 2392

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

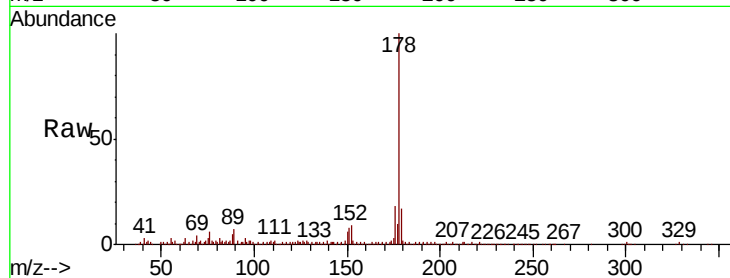
Tot Ion:178 Resp: 404913

Ion Ratio Lower Upper

178 100

176 17.8 14.3 21.5

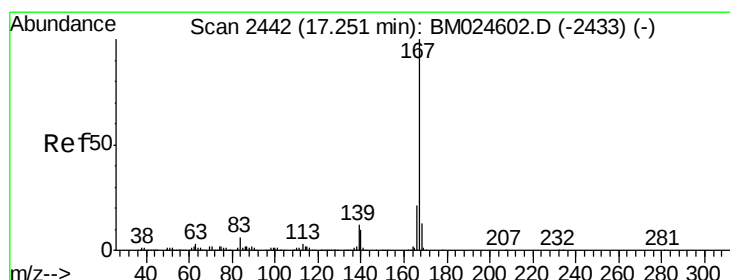
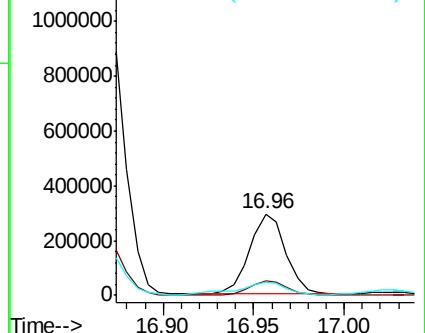
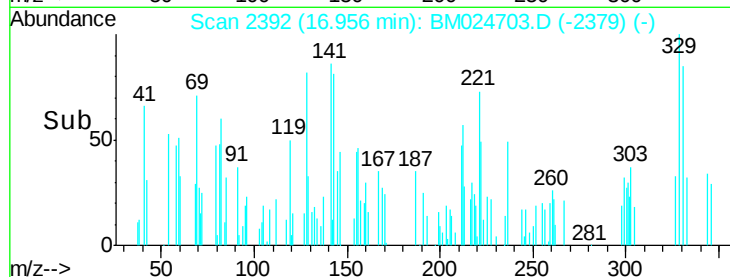
179 17.0 12.1 18.1



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



#73

Carbazole

Concen: 3.182 ng

RT: 17.23 min Scan# 2439

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

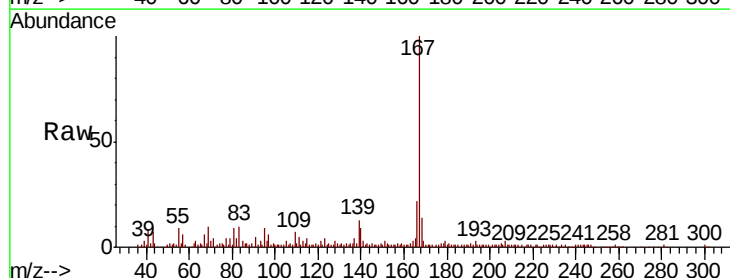
Tgt Ion:167 Resp: 200280

Ion Ratio Lower Upper

167 100

166 21.5 17.1 25.7

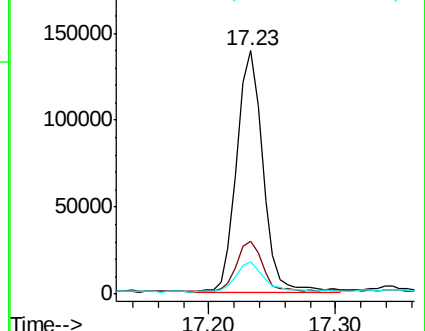
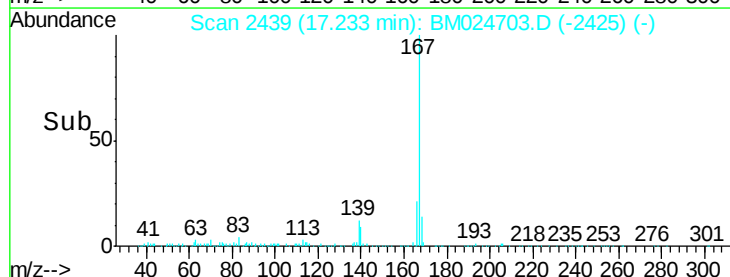
139 13.3 9.8 14.8

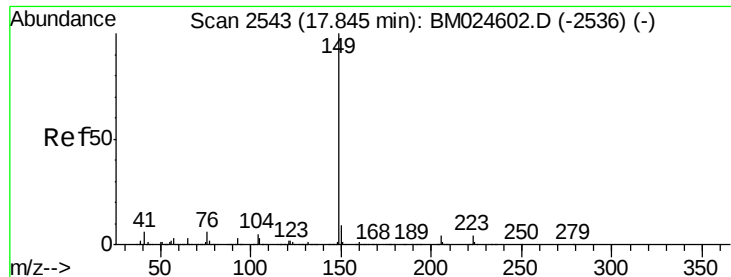


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 10.548 ng

RT: 17.83 min Scan# 2540

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

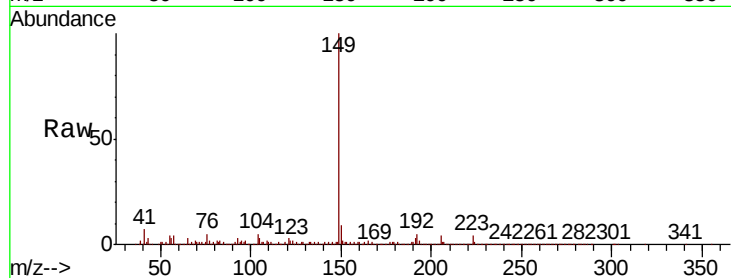
Tot Ion:149 Resp: 848810

Ion Ratio Lower Upper

149 100

150 9.3 7.4 11.0

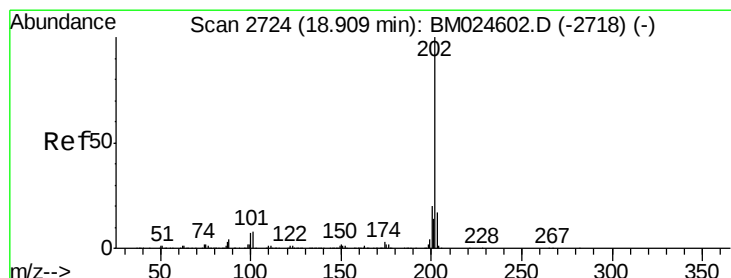
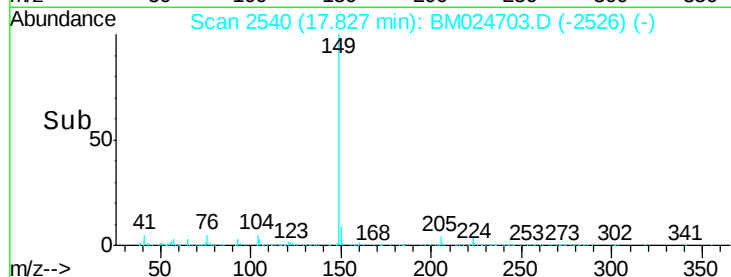
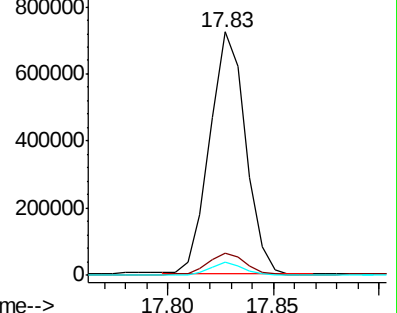
104 5.2 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: 33.837 ng

RT: 18.90 min Scan# 2722

Delta R.T. -0.01 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

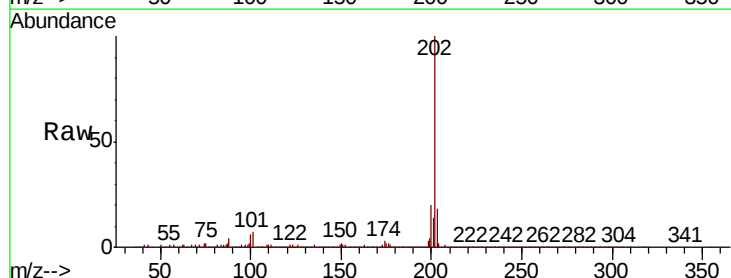
Tgt Ion:202 Resp: 2984263

Ion Ratio Lower Upper

202 100

101 7.4 0.0 28.4

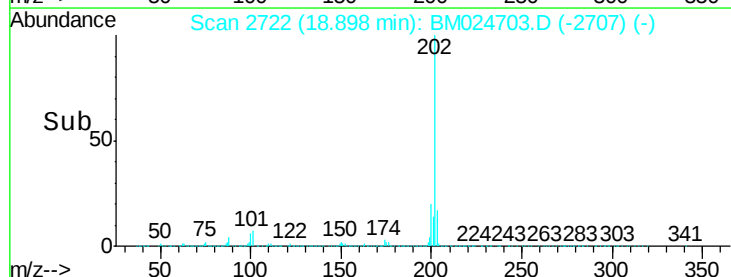
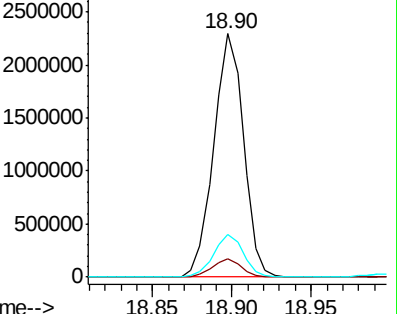
203 17.7 0.0 37.5

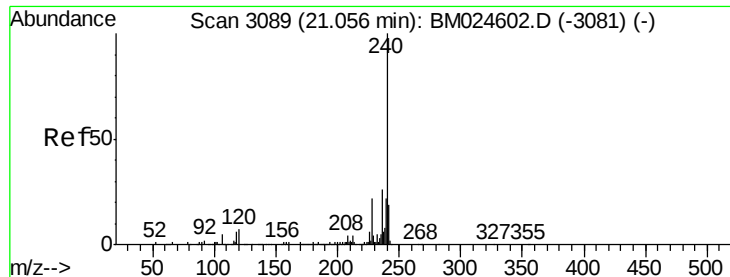


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

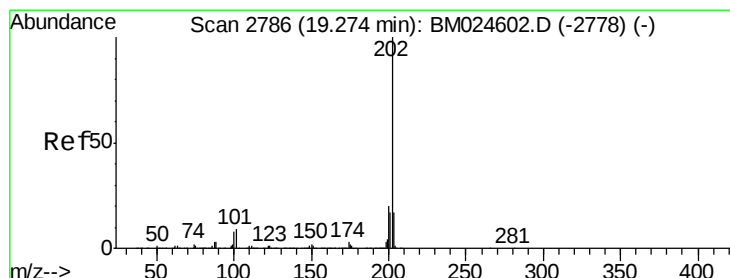
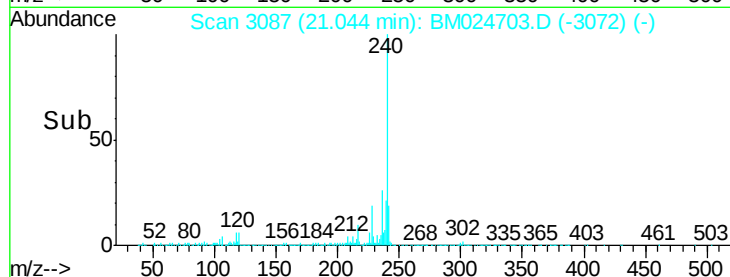
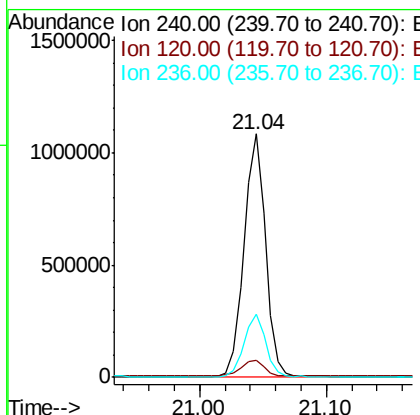
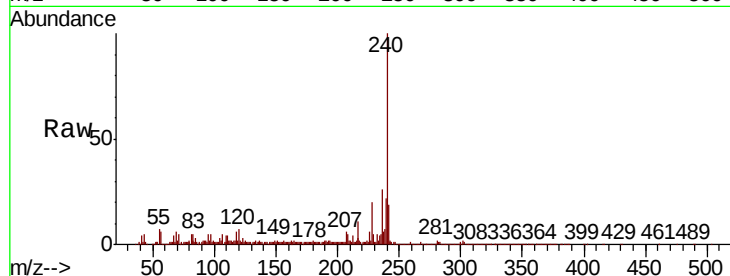




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.04 min Scan# 3087
Delta R.T. -0.01 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

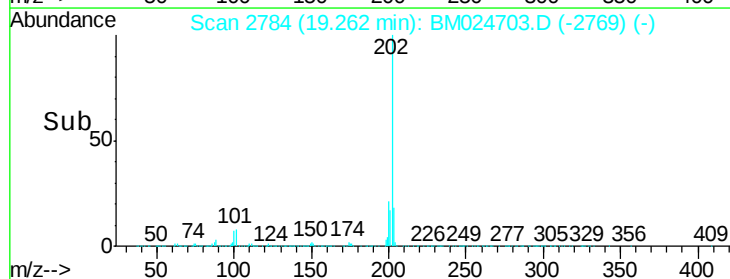
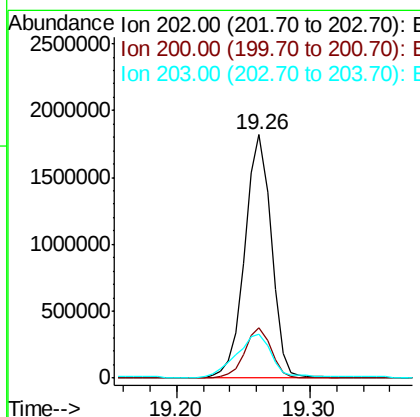
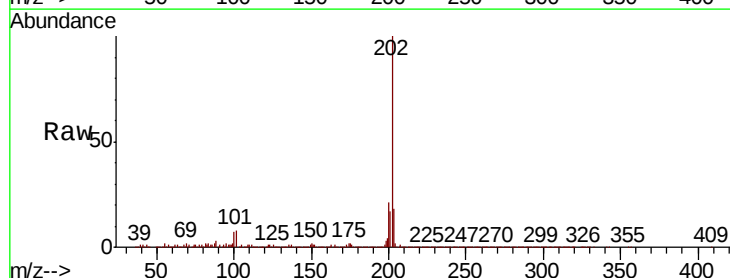
Instrument :
BNA_M
ClientSampleId :

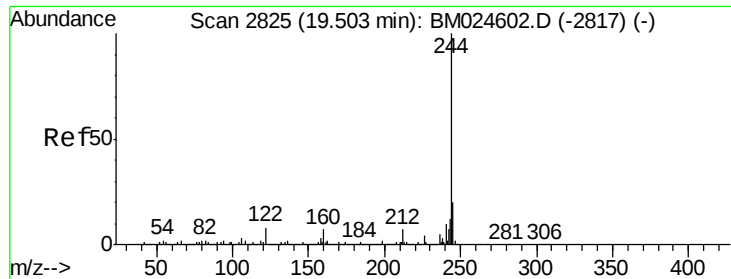
Tot Ion:240 Resp: 1268436
Ion Ratio Lower Upper
240 100
120 6.8 5.3 7.9
236 26.0 20.6 31.0



#78
Pyrene
Concen: 29.706 ng
RT: 19.26 min Scan# 2784
Delta R.T. -0.01 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

Tgt Ion:202 Resp: 2483996
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 18.3 14.0 21.0





#79

Terphenyl-d14

Concen: 53.825 ng

RT: 19.49 min Scan# 2822

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

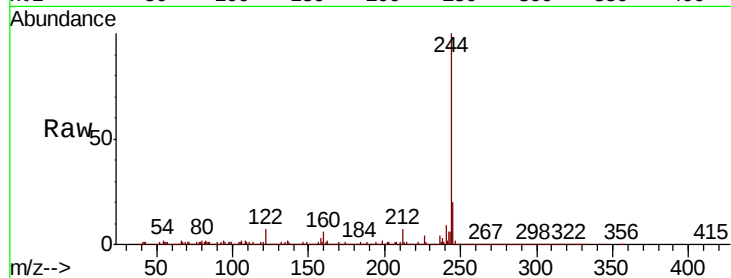
Tot Ion:244 Resp: 3657049

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

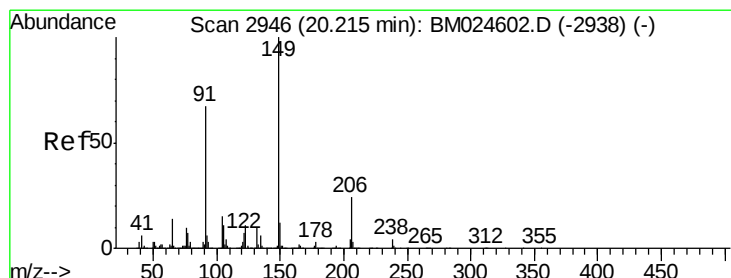
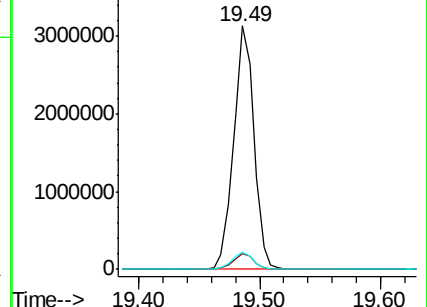
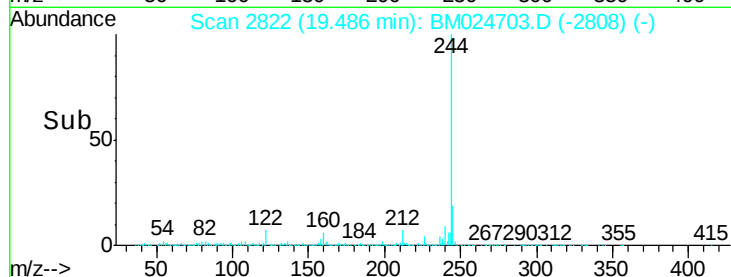
122 7.1 6.2 9.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 494.054 ng

RT: 20.22 min Scan# 2946

Delta R.T. -0.00 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

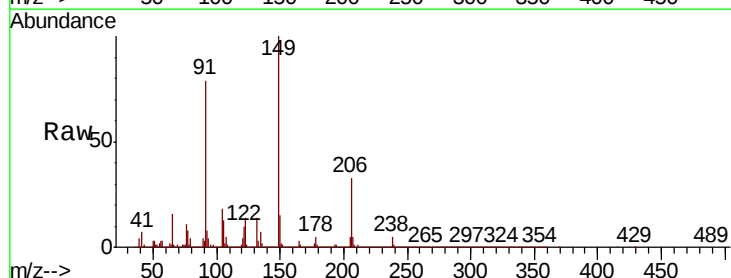
Tgt Ion:149 Resp:17335380

Ion Ratio Lower Upper

149 100

91 78.7 53.9 80.9

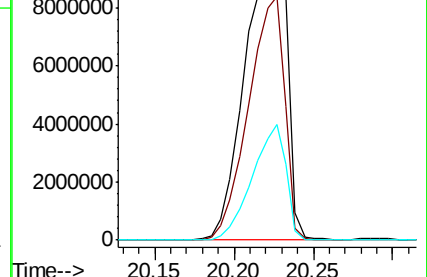
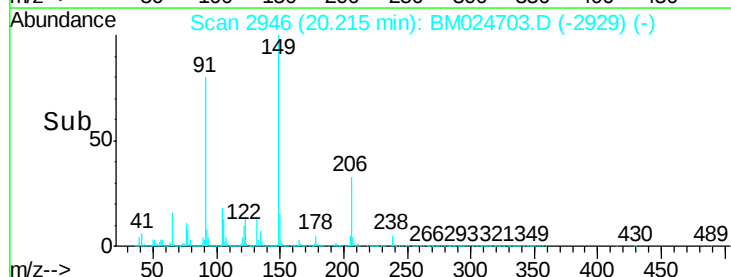
206 32.6 19.0 28.6#

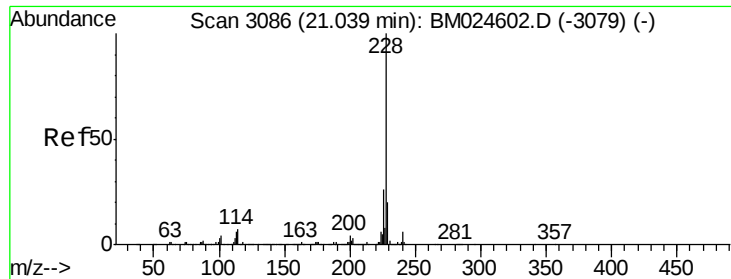


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 16.941 ng

RT: 21.03 min Scan# 3084

Delta R.T. -0.01 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

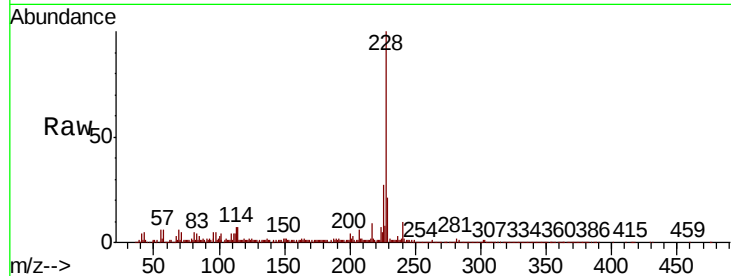
Tot Ion:228 Resp: 1491410

Ion Ratio Lower Upper

228 100

226 26.6 21.1 31.7

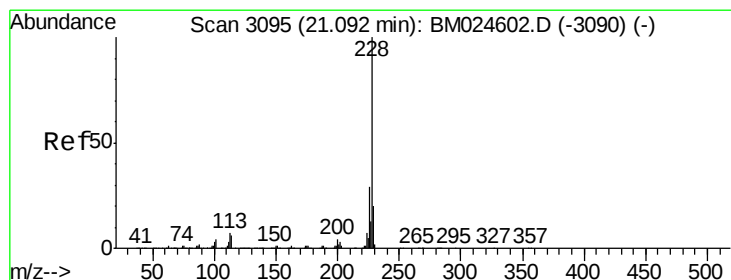
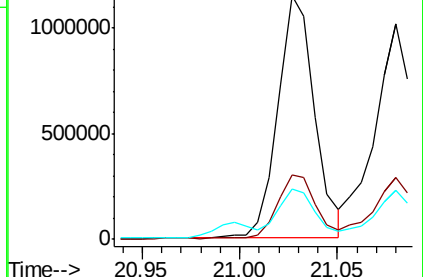
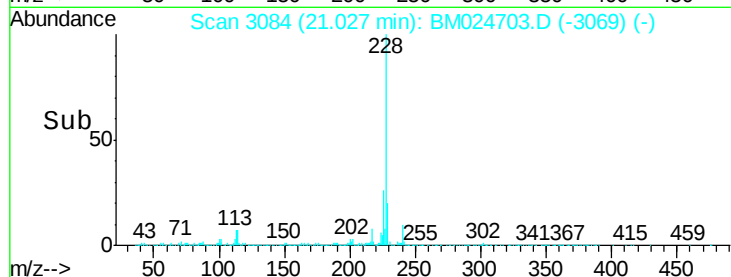
229 20.7 15.8 23.6



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: 16.309 ng

RT: 21.08 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

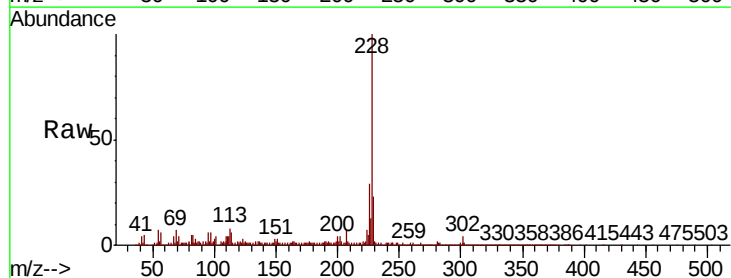
Tgt Ion:228 Resp: 1370011

Ion Ratio Lower Upper

228 100

226 29.0 23.2 34.8

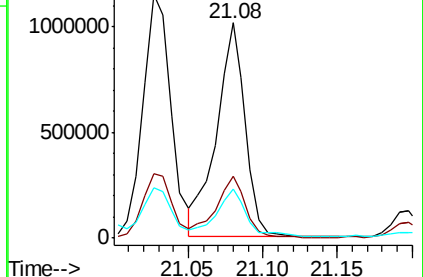
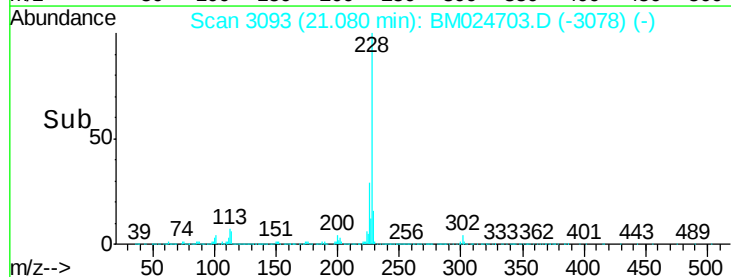
229 22.6 15.7 23.5

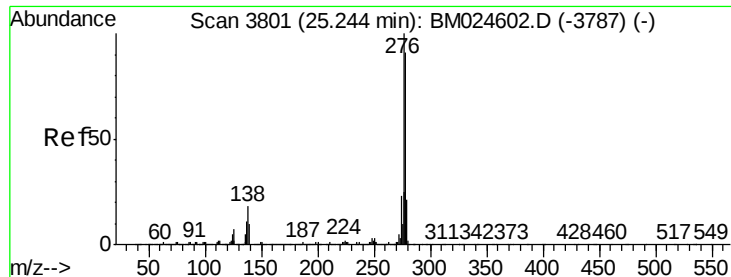


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

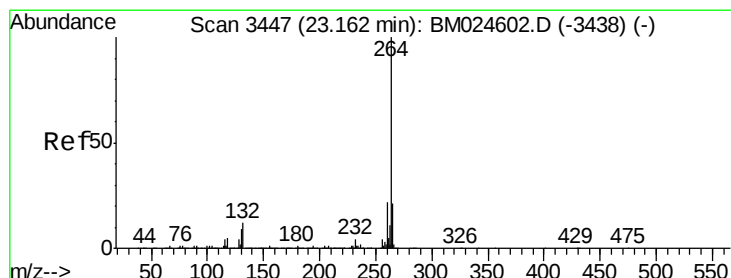
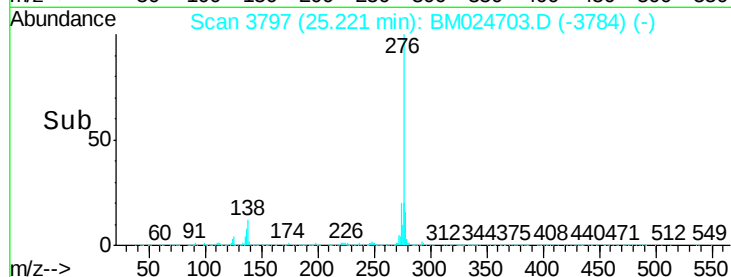
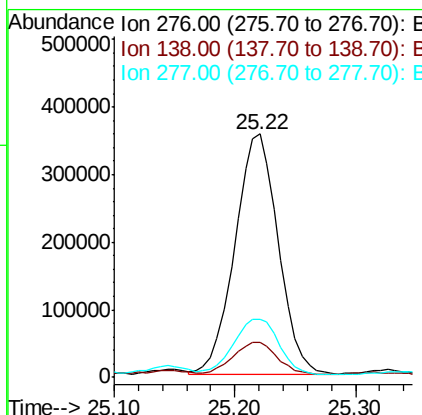
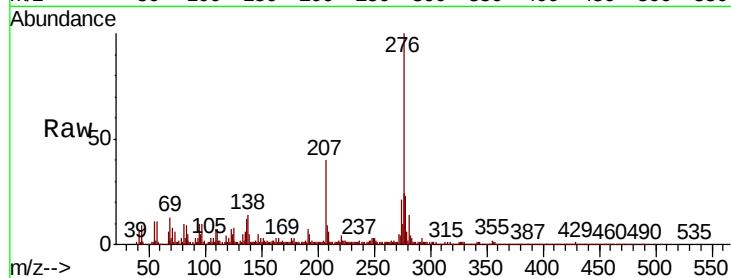




#86
Indeno(1,2,3-cd)pyrene
Concen: 9.703 ng
RT: 25.22 min Scan# 3797
Delta R.T. -0.02 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

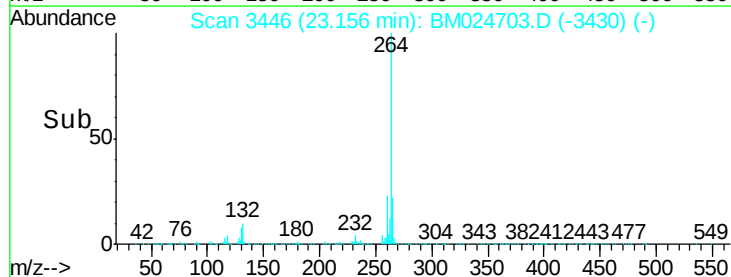
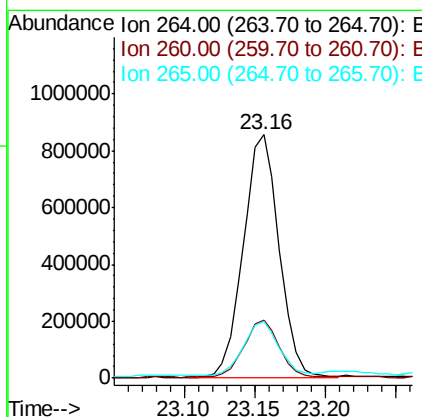
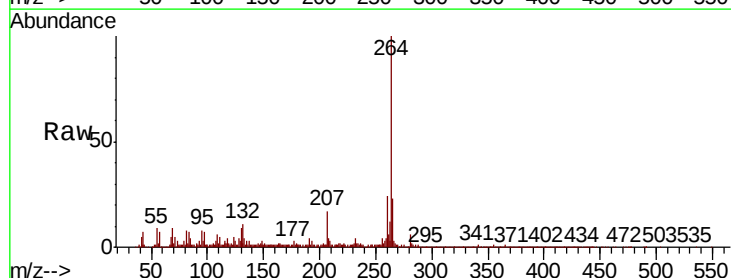
Instrument :
BNA_M
ClientSampled :

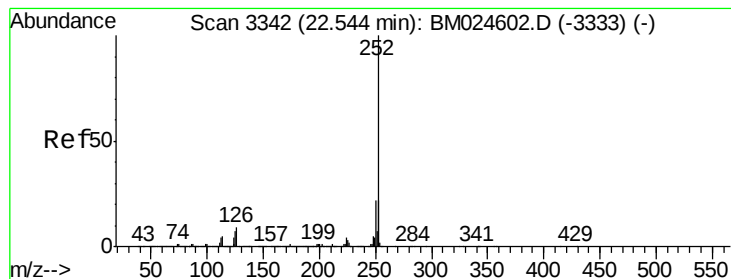
Tot Ion:276 Resp: 888374
Ion Ratio Lower Upper
276 100
138 13.7 13.4 20.0
277 24.7 19.6 29.4



#87
Perylene-d12
Concen: 20.000 ng
RT: 23.16 min Scan# 3446
Delta R.T. -0.01 min
Lab File: BM024703.D
Acq: 03 Feb 2020 17:36

Tgt Ion:264 Resp: 1512295
Ion Ratio Lower Upper
264 100
260 23.6 17.9 26.9
265 23.1 17.3 25.9





#88

Benzo(b)fluoranthene

Concen: 25.786 ng

RT: 22.54 min Scan# 3341

Delta R.T. -0.01 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

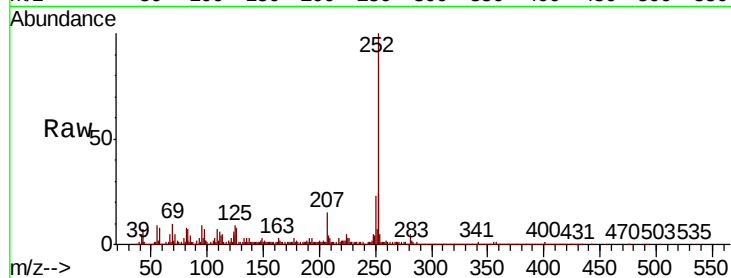
Tot Ion:252 Resp: 2529224

Ion Ratio Lower Upper

252 100

253 23.8 17.6 26.4

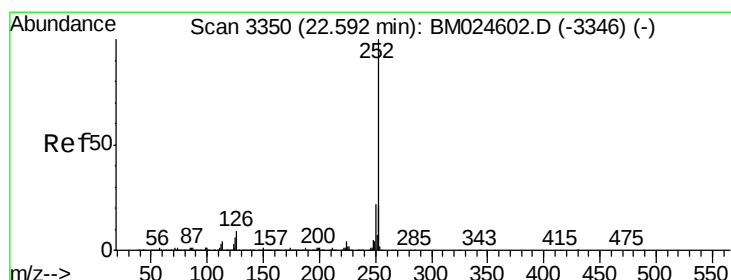
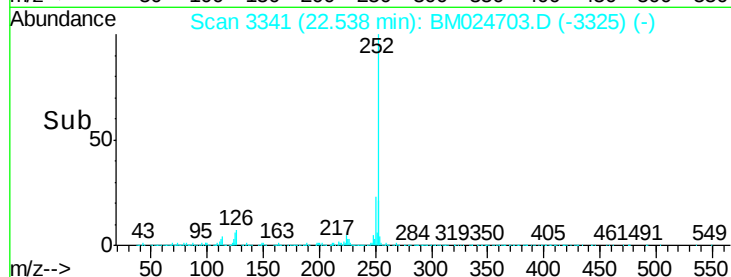
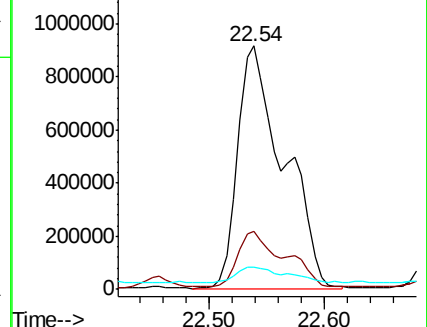
125 8.9 5.7 8.5#



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: 26.384 ng

RT: 22.54 min Scan# 3341

Delta R.T. -0.05 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

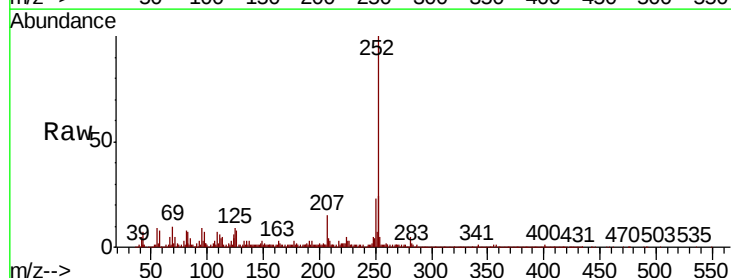
Tgt Ion:252 Resp: 2526004

Ion Ratio Lower Upper

252 100

253 23.8 17.3 25.9

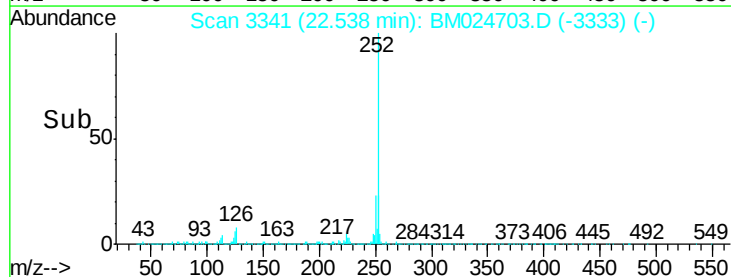
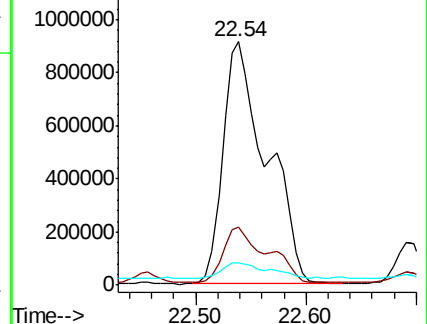
125 8.9 5.2 7.8#

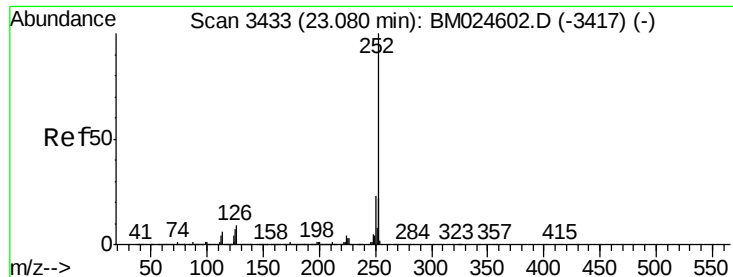


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 14.420 ng

RT: 23.06 min Scan# 3430

Delta R.T. -0.02 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

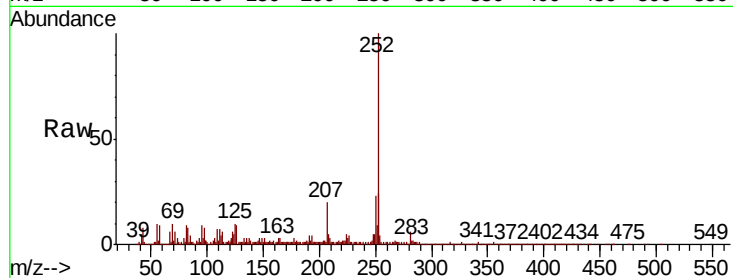
Tot Ion:252 Resp: 1285938

Ion Ratio Lower Upper

252 100

253 23.6 17.3 25.9

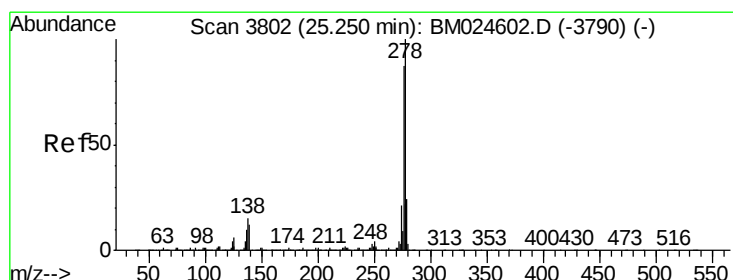
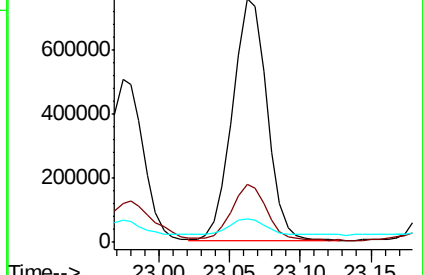
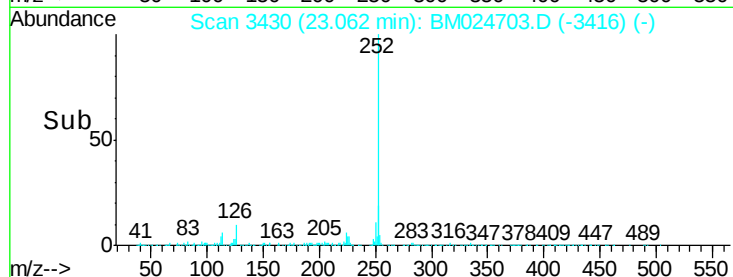
125 9.7 5.8 8.8#



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

Dibenzo(a,h)anthracene

Concen: 2.735 ng

RT: 25.22 min Scan# 3797

Delta R.T. -0.03 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

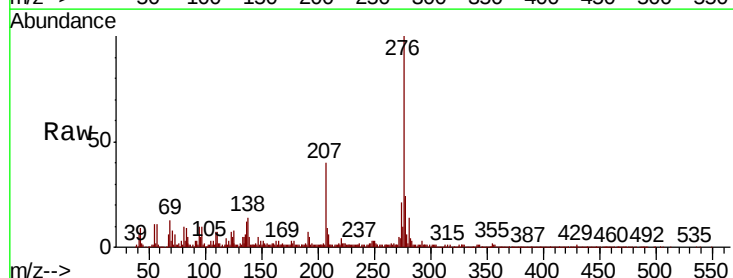
Tgt Ion:278 Resp: 231491

Ion Ratio Lower Upper

278 100

139 20.7 9.3 13.9#

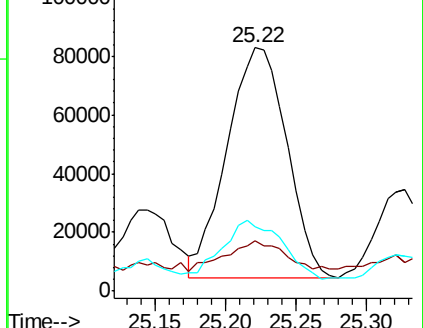
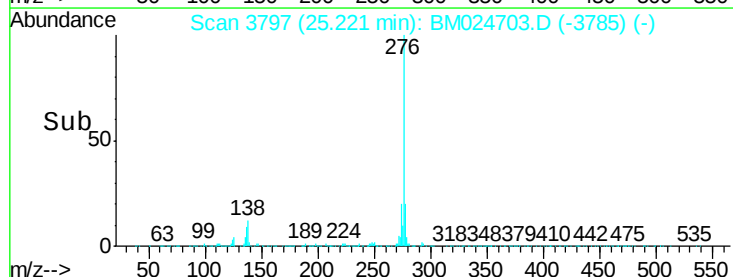
279 26.7 18.9 28.3

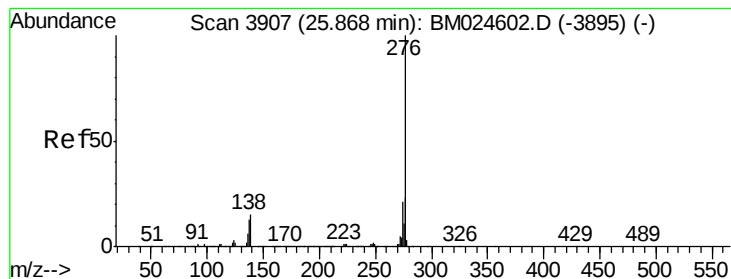


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 11.015 ng

RT: 25.84 min Scan# 3902

Delta R.T. -0.03 min

Lab File: BM024703.D

Acq: 03 Feb 2020 17:36

Instrument :

BNA_M

ClientSampleId :

Tot Ion: 276 Resp: 846552

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 14.3 11.9 17.9

