

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053119\
 Data File : BM020634.D
 Acq On : 31 May 2019 17:10
 Operator : JU/SJ
 Sample : K3068-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Quant Time: May 31 17:45:05 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 31 15:48:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	301222	20.00	ng	0.00
21) Naphthalene-d8	10.63	136	1202199	20.00	ng	0.00
39) Acenaphthene-d10	14.47	164	613460	20.00	ng	0.00
64) Phenanthrene-d10	17.22	188	1319485	20.00	ng	0.00
76) Chrysene-d12	21.39	240	1367239	20.00	ng	0.00
87) Perylene-d12	23.69	264	1585870	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	785055	45.85	ng	0.00
7) Phenol-d6	6.99	99	1084853	43.03	ng	0.00
23) Nitrobenzene-d5	8.99	82	661407	28.50	ng	0.00
42) 2,4,6-Tribromophenol	15.96	330	303535	39.94	ng	0.00
45) 2-Fluorobiphenyl	13.09	172	1167165	25.29	ng	0.00
79) Terphenyl-d14	19.84	244	1518327	18.57	ng	0.00

Target Compounds

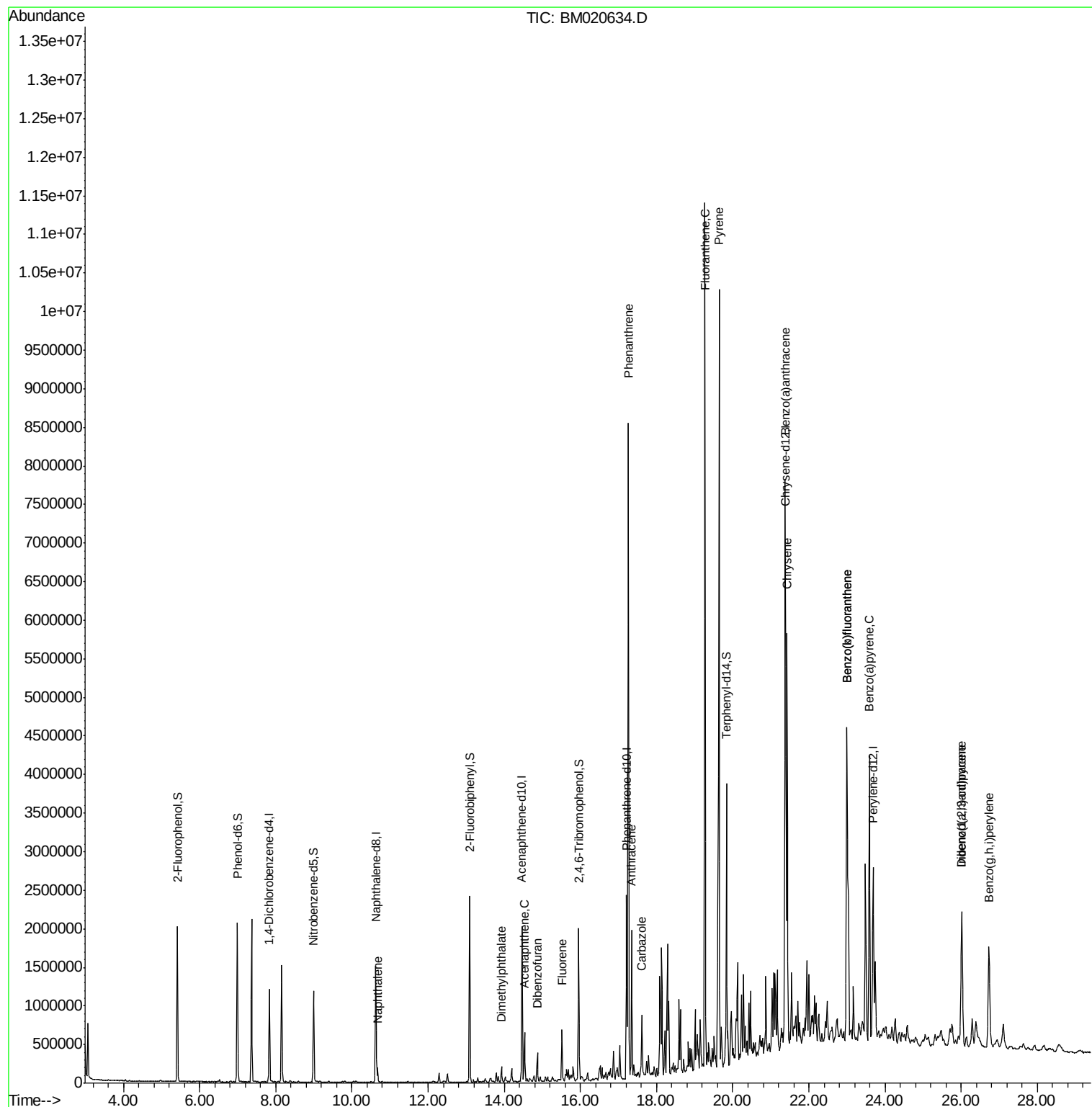
						Qvalue
9) Benzaldehyde	6.99	77	4252	Below Cal	#	39
31) Naphthalene	10.67	128	140211	2.268 ng		99
50) Dimethylphthalate	13.93	163	110544	2.109 ng		100
52) Acenaphthene	14.53	154	215513	5.605 ng		97
55) Dibenzofuran	14.87	168	185687	3.109 ng		99
58) Fluorene	15.52	166	271329	5.525 ng		97
71) Phenanthrene	17.26	178	4958722	66.299 ng		99
72) Anthracene	17.34	178	1091525	14.581 ng		100
73) Carbazole	17.62	167	435358	6.409 ng		99
75) Fluoranthene	19.27	202	6289666	75.619 ng		99
78) Pyrene	19.64	202	6334690	60.376 ng		99
81) Benzo(a)anthracene	21.38	228	3070841	32.252 ng		99
83) Chrysene	21.43	228	2671908	29.522 ng		98
86) Indeno(1,2,3-cd)pyrene	26.01	276	1614925	17.441 ng		97
88) Benzo(b)fluoranthene	23.00	252	4310558	41.124 ng		98
89) Benzo(k)fluoranthene	23.00	252	4298038	41.960 ng		98
90) Benzo(a)pyrene	23.59	252	2586673	27.207 ng		99
91) Dibenzo(a,h)anthracene	26.02	278	415473	4.504 ng	#	82
92) Benzo(a,h,i)perylene	26.73	276	1594766	18.614 ng		100

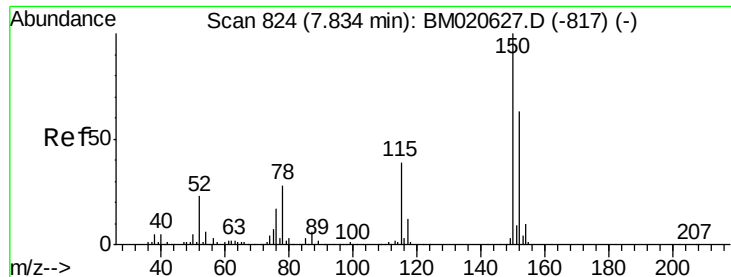
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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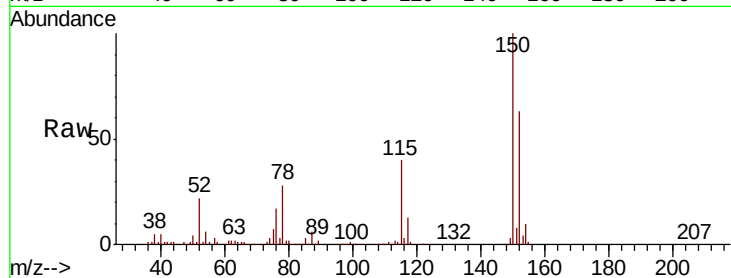


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.83 min Scan# 824
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	126.0	189.0
115	63.2	49.6	74.4

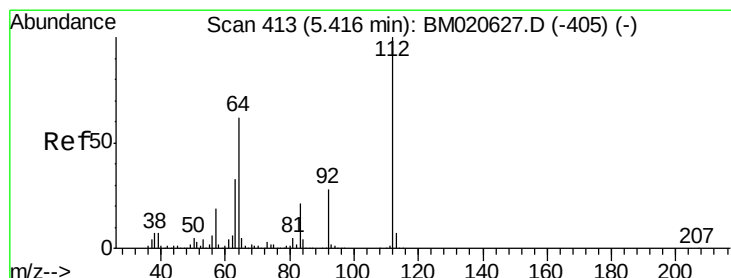
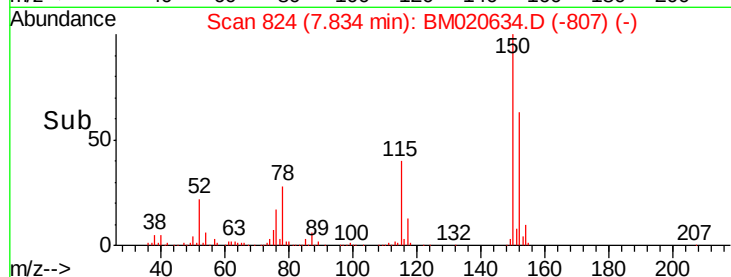
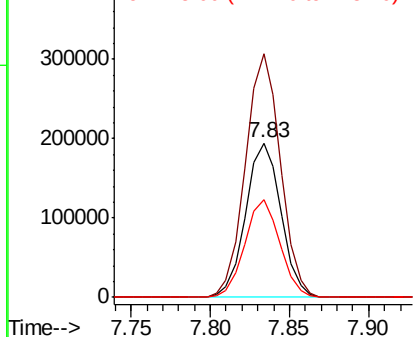


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

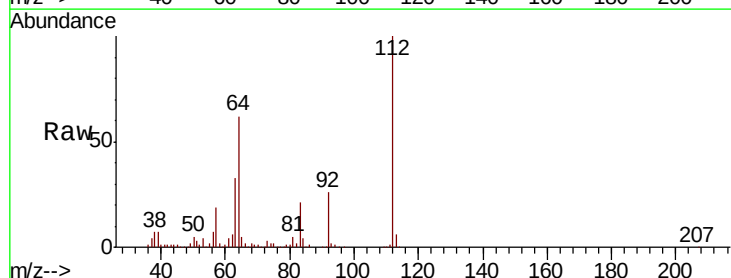
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 45.845 ng
RT: 5.42 min Scan# 413
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.1	49.7	74.5
63	32.8	26.4	39.6

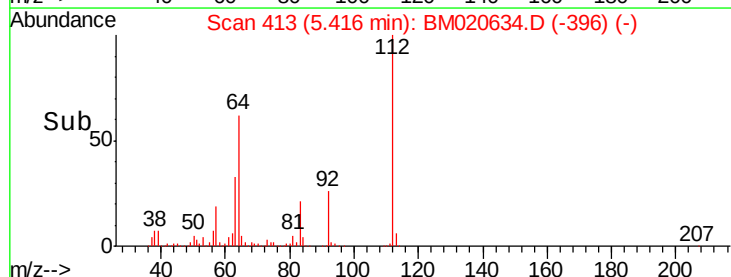
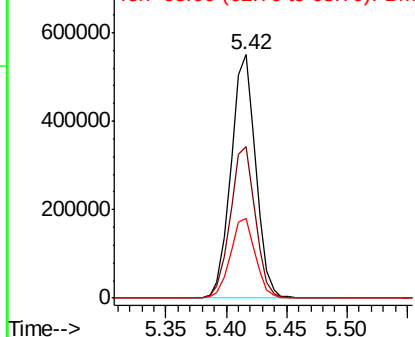


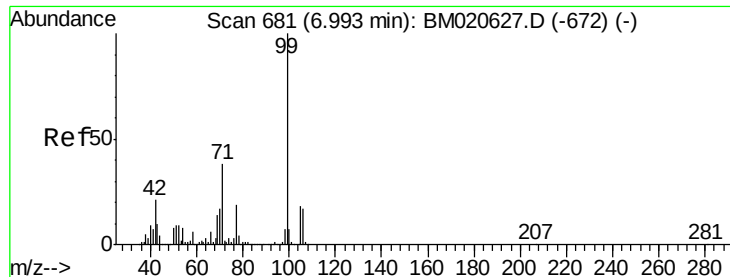
Abundance

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: 43.025 ng

RT: 6.99 min Scan# 681

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

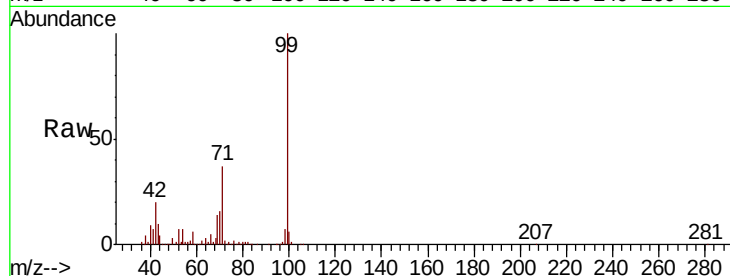
Tot Ion: 99 Resp: 1084853

Ion Ratio Lower Upper

99 100

42 19.6 16.5 24.7

71 36.6 30.7 46.1



Abundance Ion 99.00 (98.70 to 99.70): BM020627.D (-672) (-)

Ion 42.00 (41.70 to 42.70): BM020627.D (-672) (-)

Ion 71.00 (70.70 to 71.70): BM020627.D (-672) (-)

800000

6.99

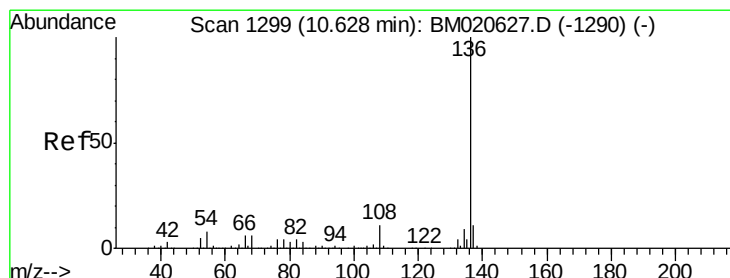
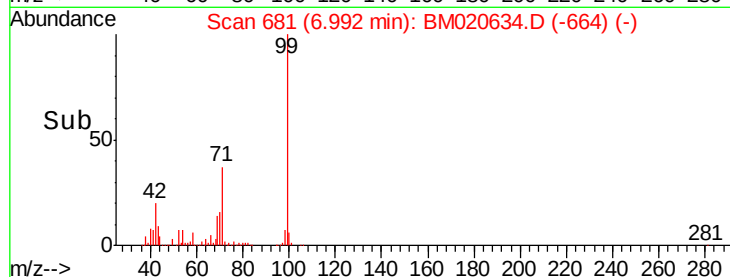
600000

400000

200000

0

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.63 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Tgt Ion: 136 Resp: 1202199

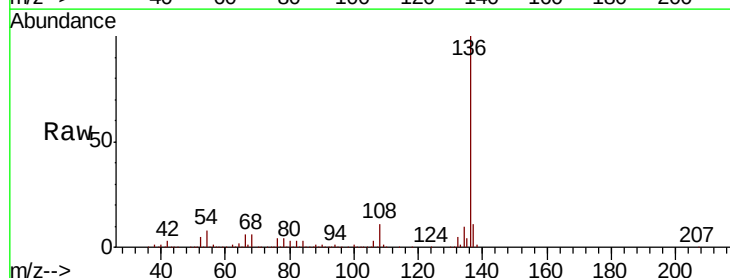
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 8.0 6.6 10.0

68 6.4 5.1 7.7



Abundance Ion 136.00 (135.70 to 136.70): BM020627.D (-1290) (-)

Ion 137.00 (136.70 to 137.70): BM020627.D (-1290) (-)

Ion 54.00 (53.70 to 54.70): BM020627.D (-1290) (-)

Ion 68.00 (67.70 to 68.70): BM020627.D (-1290) (-)

1000000

10.63

800000

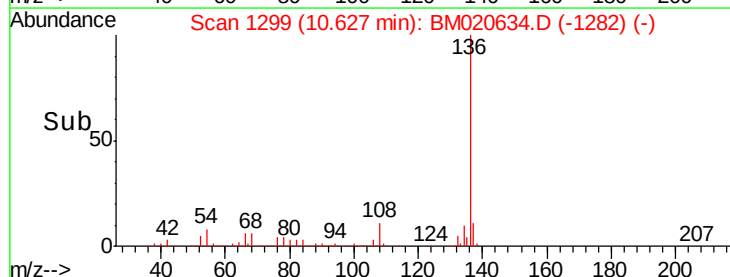
600000

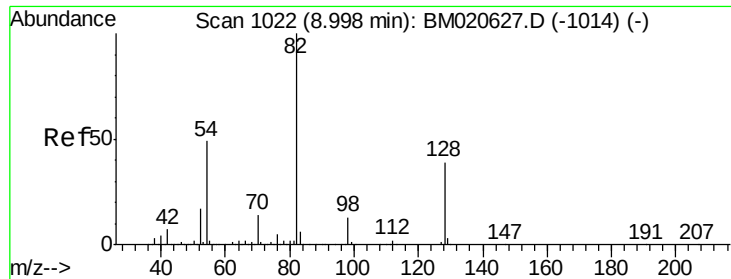
400000

200000

0

Time-->

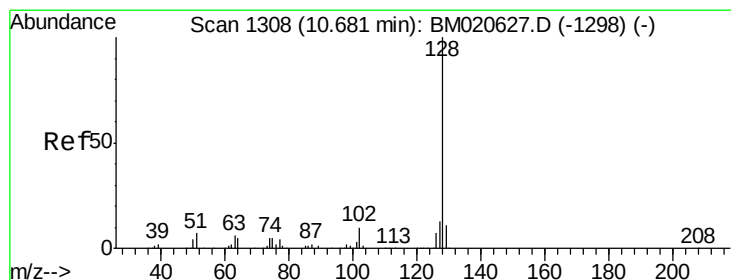
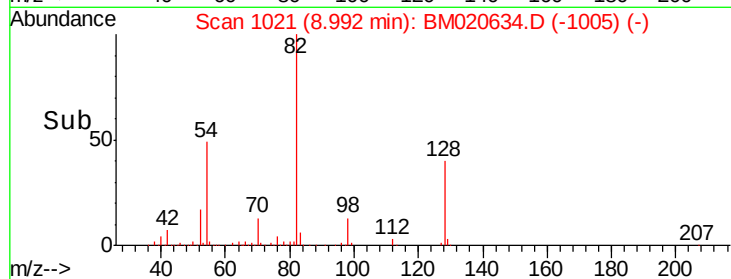
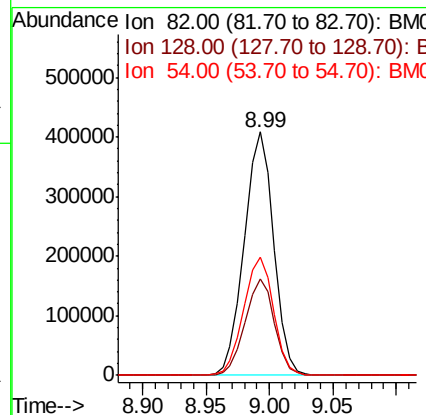
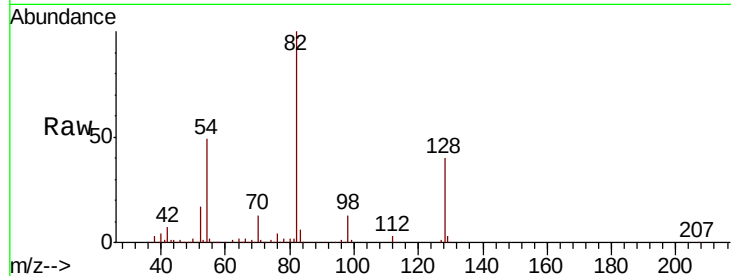




#23
 Nitrobenzene-d5
 Concen: 28.505 ng
 RT: 8.99 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

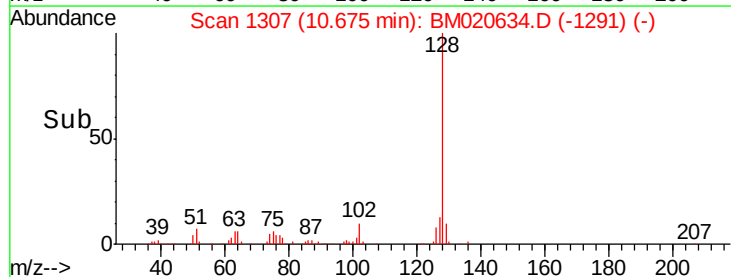
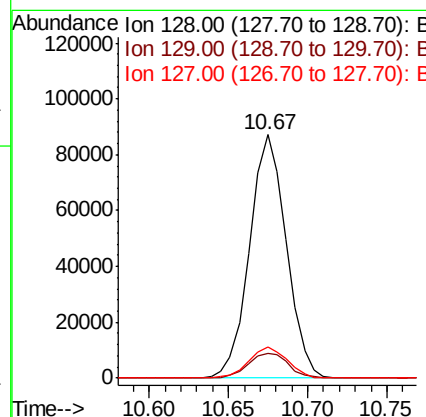
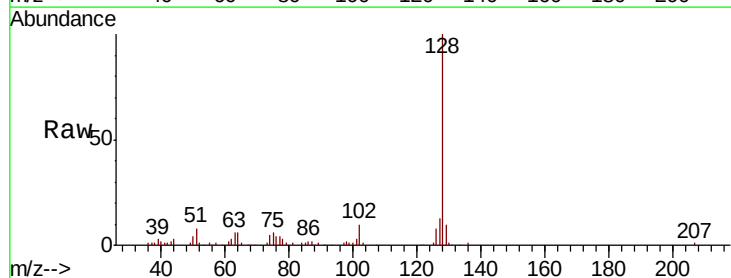
Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

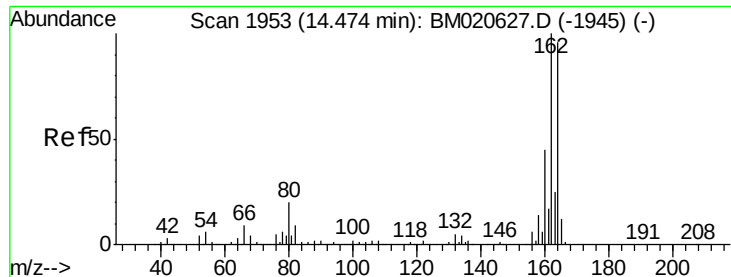
Tot Ion	82	Resp	661407
Ion Ratio	Lower	Upper	
82	100		
128	39.8	31.5	47.3
54	48.6	39.4	59.0



#31
 Naphthalene
 Concen: 2.268 ng
 RT: 10.67 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion	128	Resp	140211
Ion Ratio	Lower	Upper	
128	100		
129	10.4	8.7	13.1
127	12.6	10.3	15.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.47 min Scan# 1952

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

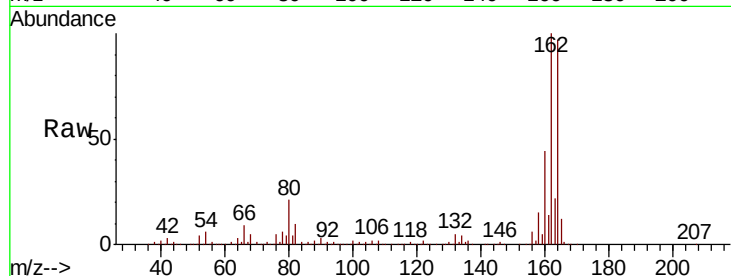
Tot Ion:164 Resp: 613460

Ion Ratio Lower Upper

164 100

162 103.2 83.2 124.8

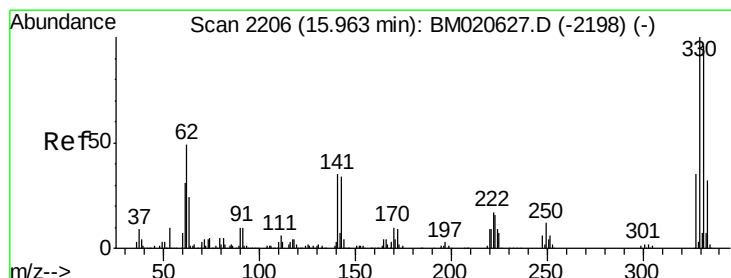
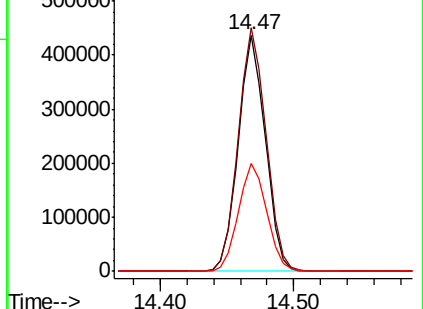
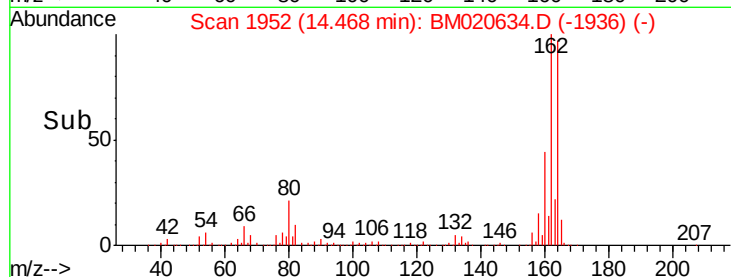
160 45.7 37.5 56.3



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: 39.935 ng

RT: 15.96 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

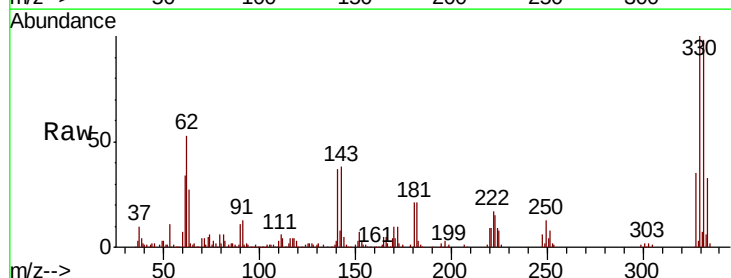
Tgt Ion:330 Resp: 303535

Ion Ratio Lower Upper

330 100

332 97.0 77.4 116.0

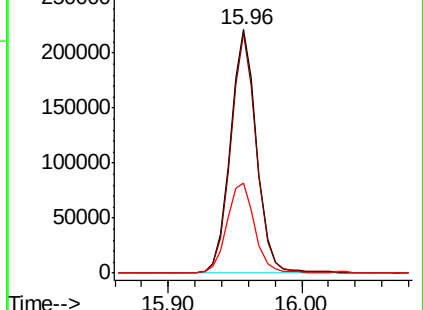
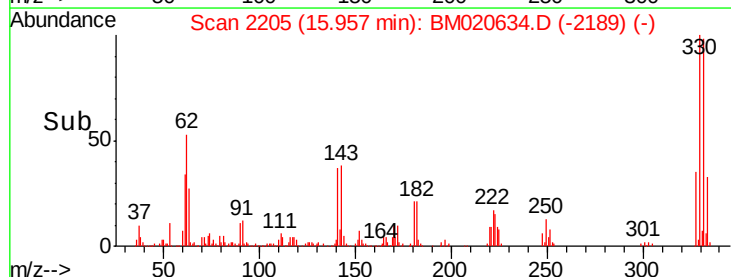
141 38.6 30.4 45.6

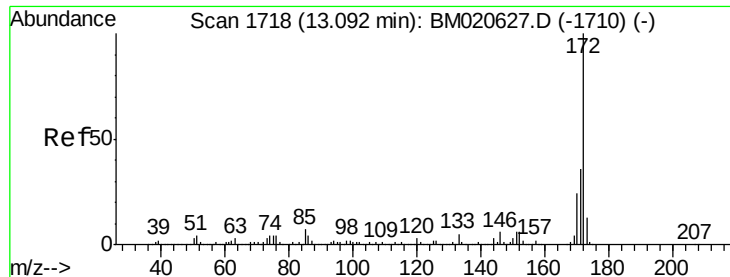


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

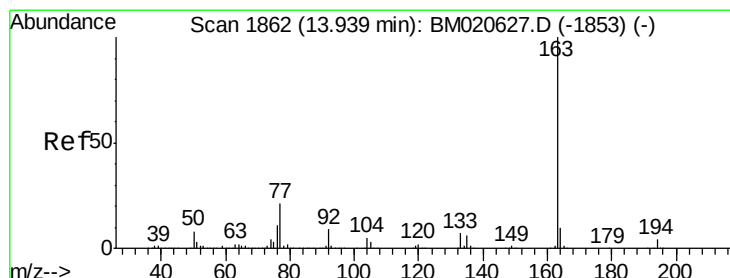
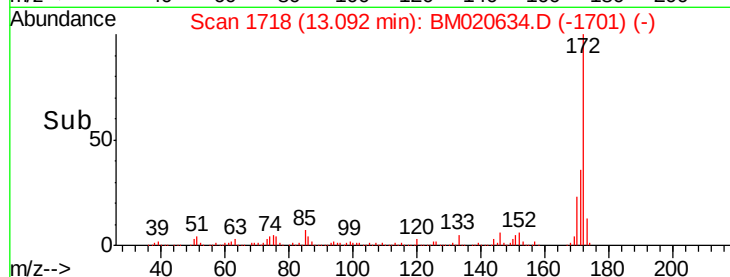
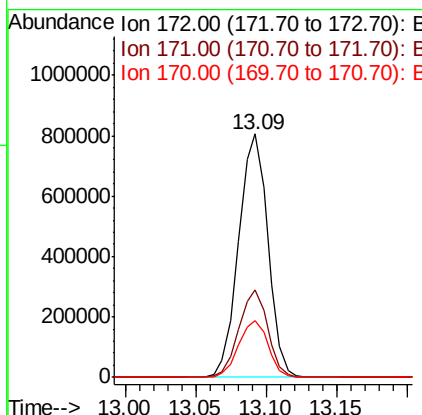
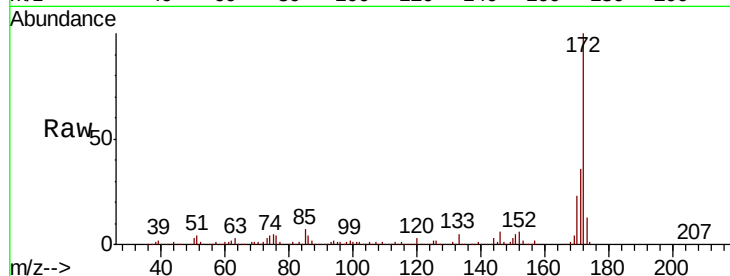




#45
2-Fluorobiphenyl
Concen: 25.294 ng
RT: 13.09 min Scan# 1718
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

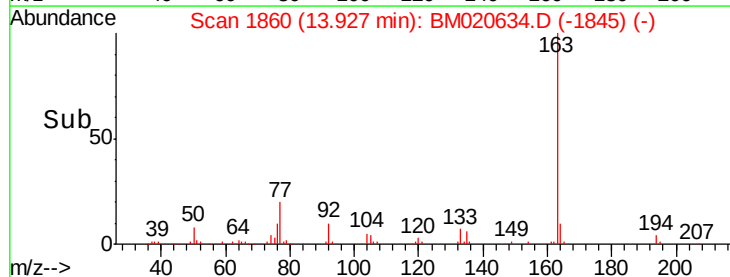
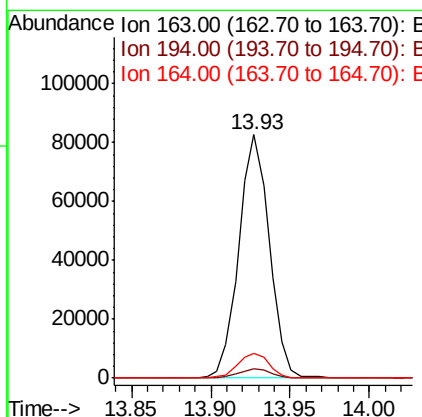
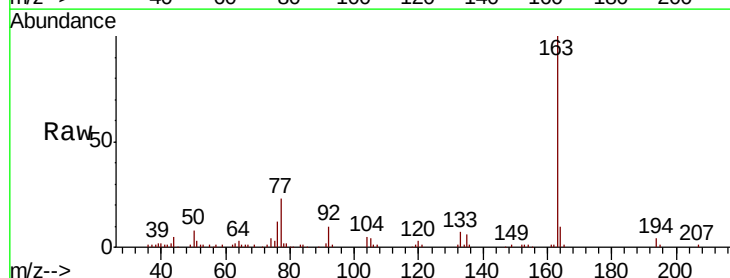
Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

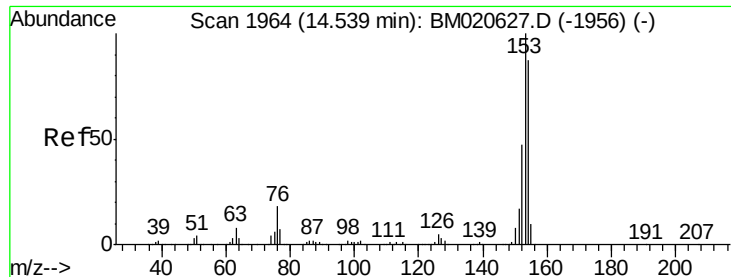
Tot Ion:172 Resp: 1167165
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 23.3 18.9 28.3



#50
Dimethylphthalate
Concen: 2.109 ng
RT: 13.93 min Scan# 1860
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion:163 Resp: 110544
Ion Ratio Lower Upper
163 100
194 3.8 3.2 4.8
164 10.0 7.9 11.9





#52

Acenaphthene

Concen: 5.605 ng

RT: 14.53 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

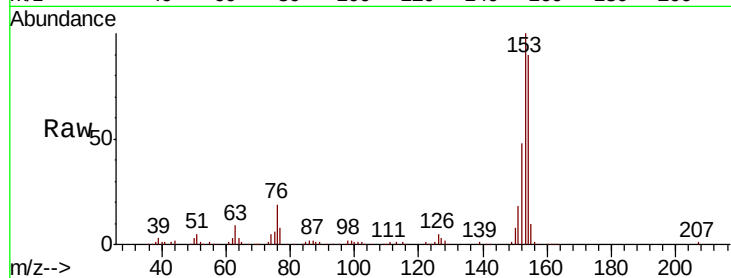
Tot Ion:154 Resp: 215513

Ion Ratio Lower Upper

154 100

153 111.1 92.4 138.6

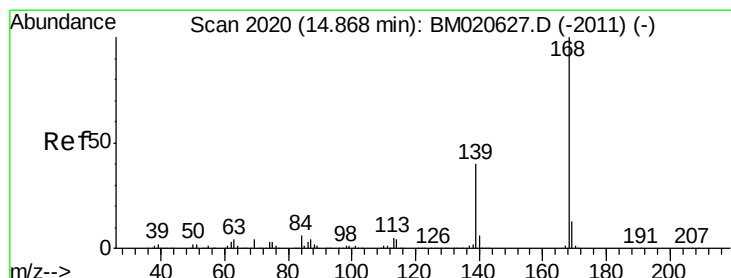
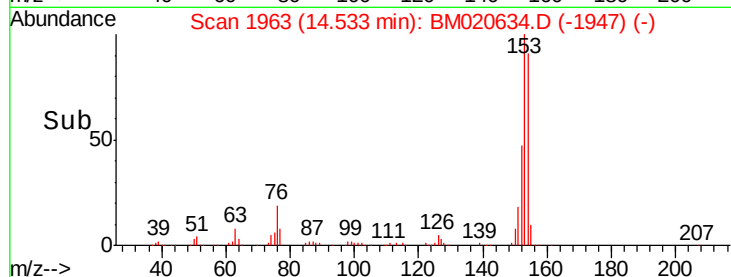
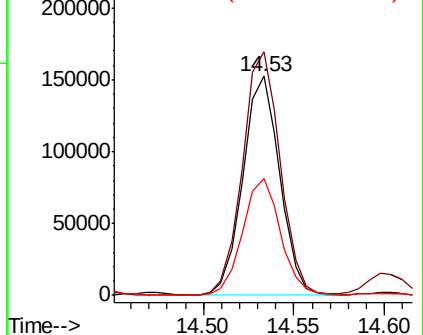
152 53.6 43.4 65.0



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: 3.109 ng

RT: 14.87 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

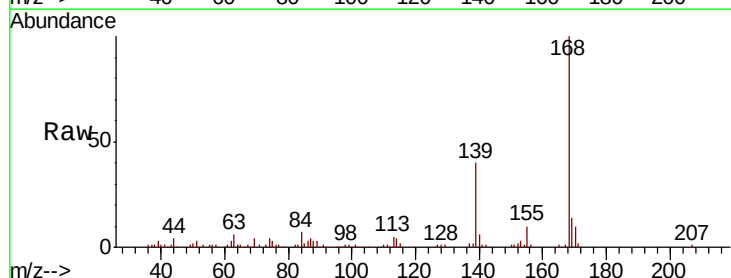
Tgt Ion:168 Resp: 185687

Ion Ratio Lower Upper

168 100

139 40.3 31.9 47.9

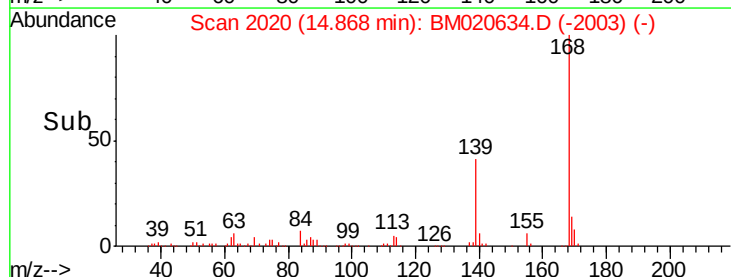
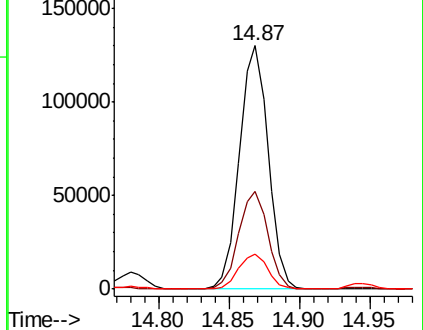
169 14.2 10.7 16.1

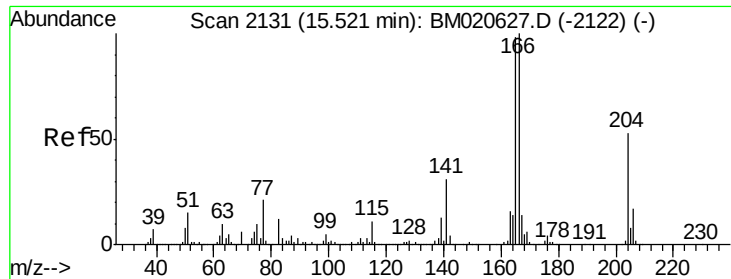


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 5.525 ng

RT: 15.52 min Scan# 2130

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

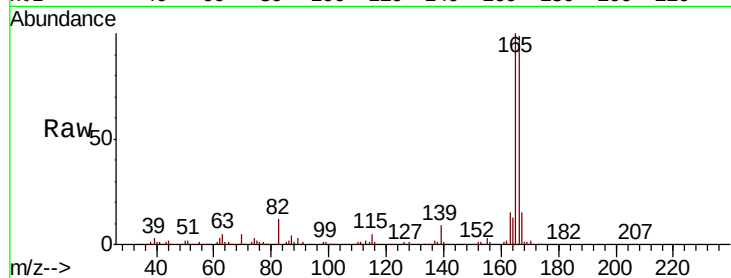
Tot Ion:166 Resp: 271329

Ion Ratio Lower Upper

166 100

165 101.3 78.6 117.8

167 15.0 11.0 16.4

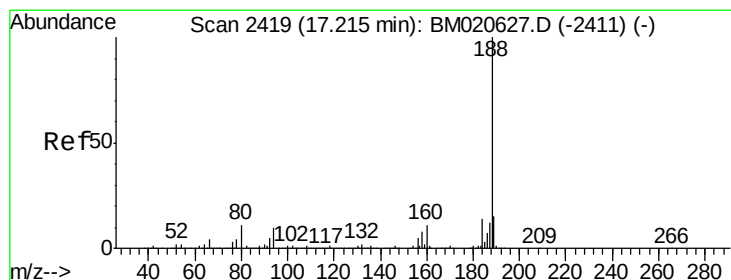
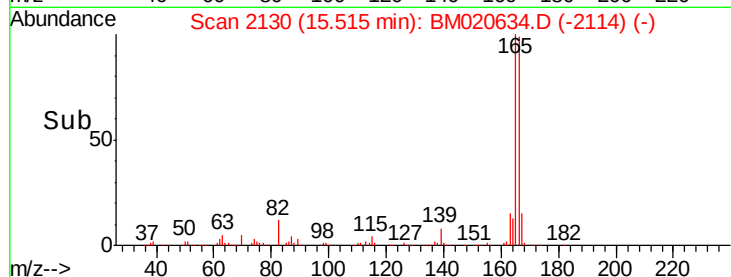
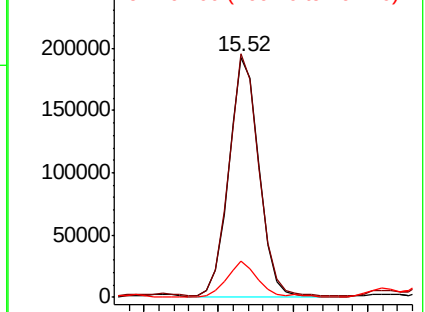


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.22 min Scan# 2419

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

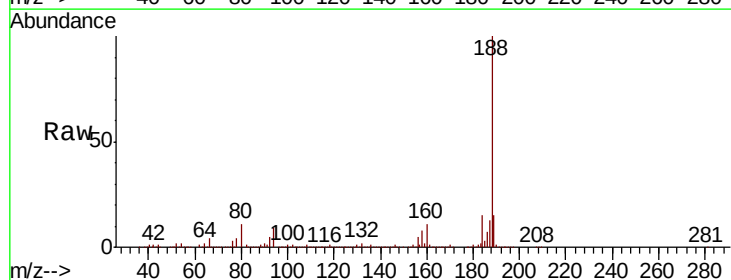
Tgt Ion:188 Resp: 1319485

Ion Ratio Lower Upper

188 100

94 9.2 7.8 11.8

80 10.9 9.0 13.6

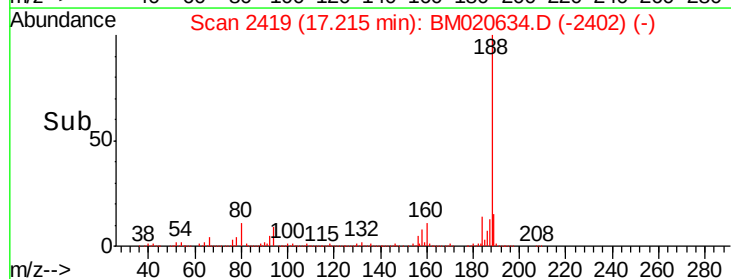
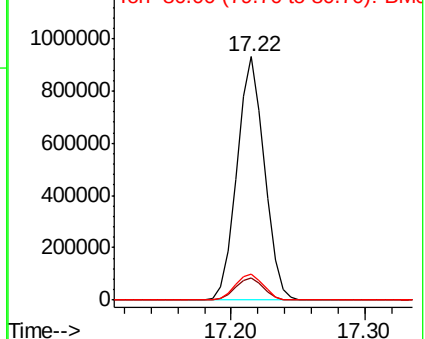


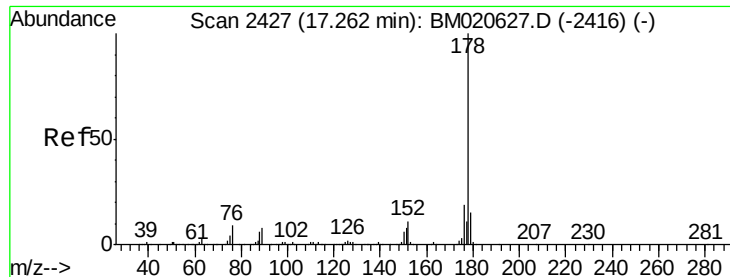
Abundance

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

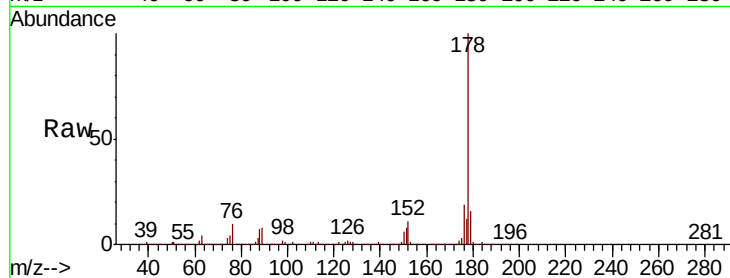




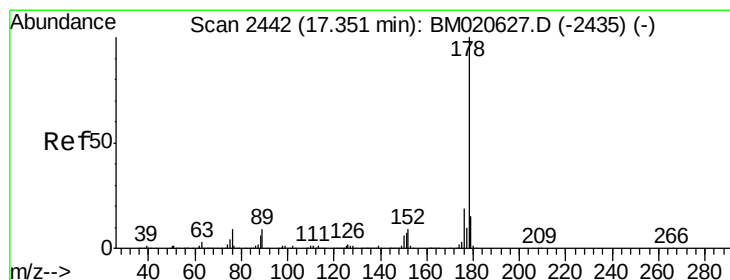
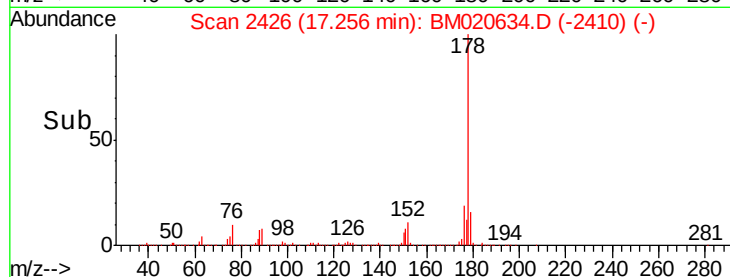
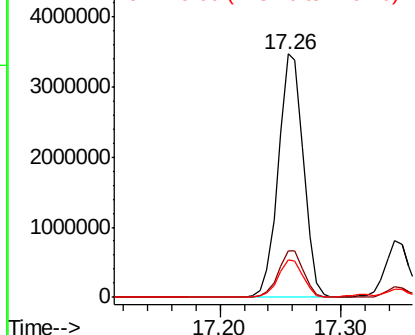
#71
Phenanthrene
Concen: 66.299 ng
RT: 17.26 min Scan# 2426
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion:178 Resp: 4958722
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.7 12.2 18.4

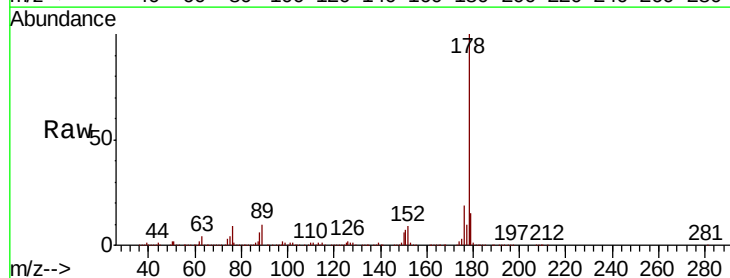


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

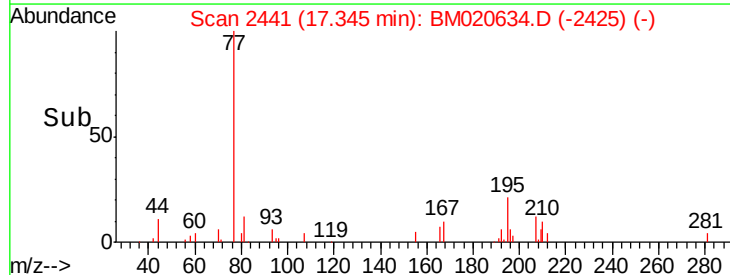
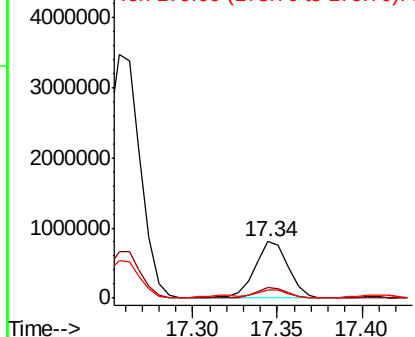


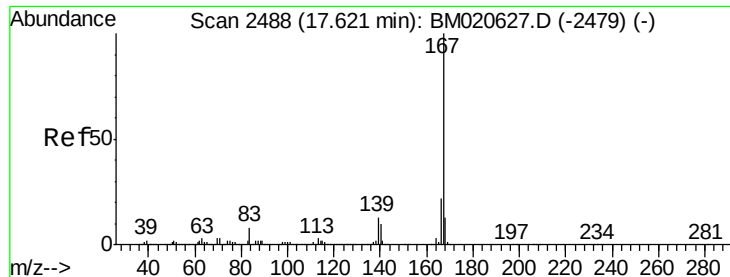
#72
Anthracene
Concen: 14.581 ng
RT: 17.34 min Scan# 2441
Delta R.T. -0.01 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion:178 Resp: 1091525
Ion Ratio Lower Upper
178 100
176 18.5 15.1 22.7
179 15.4 12.3 18.5



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

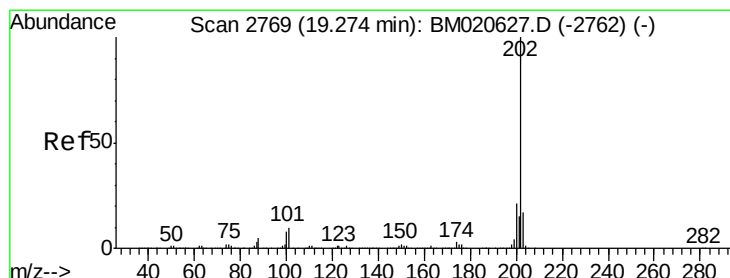
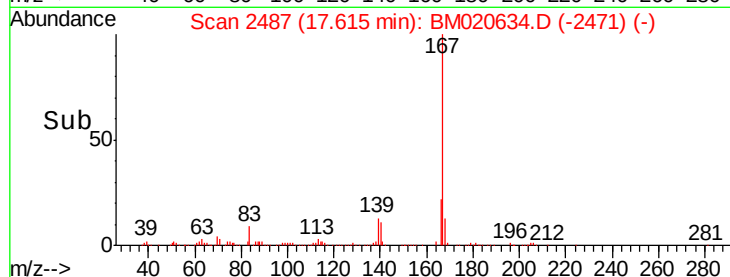
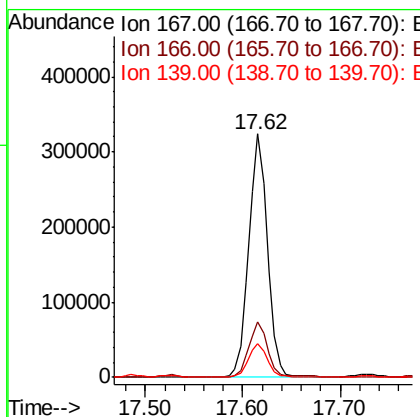
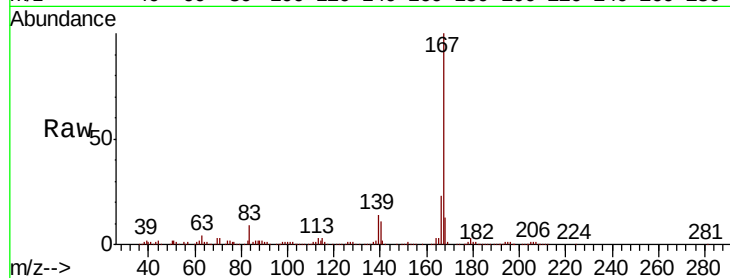




#73
 Carbazole
 Concen: 6.409 ng
 RT: 17.62 min Scan# 2487
 Delta R.T. -0.01 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

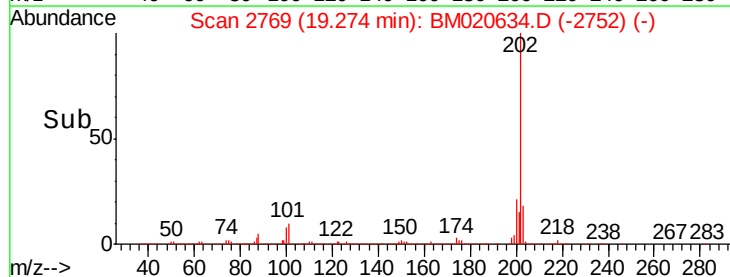
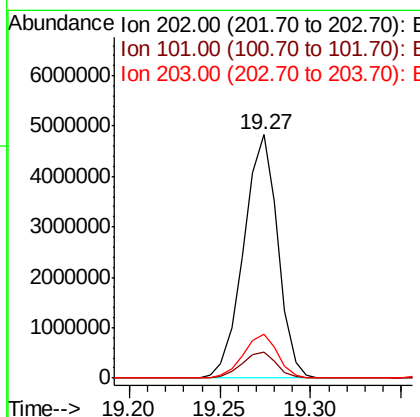
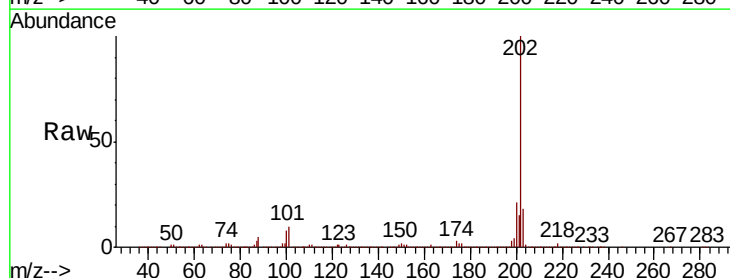
Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

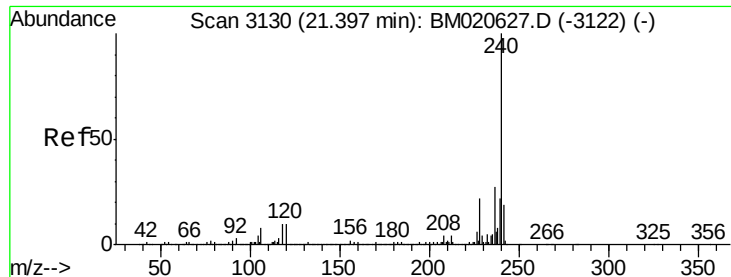
Tot Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.5	26.3
139	13.7	10.6	15.8



#75
 Fluoranthene
 Concen: 75.619 ng
 RT: 19.27 min Scan# 2769
 Delta R.T. -0.00 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.4
203	17.8	0.0	37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.39 min Scan# 3129

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

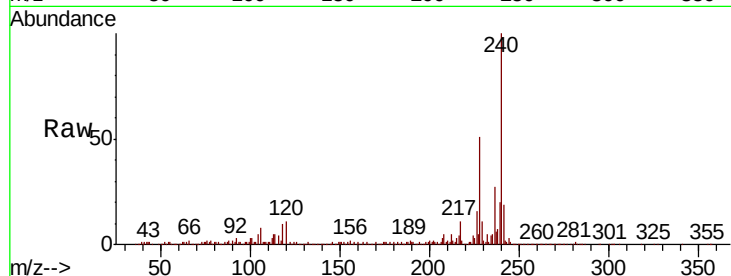
Tot Ion:240 Resp: 1367239

Ion Ratio Lower Upper

240 100

120 11.1 8.2 12.2

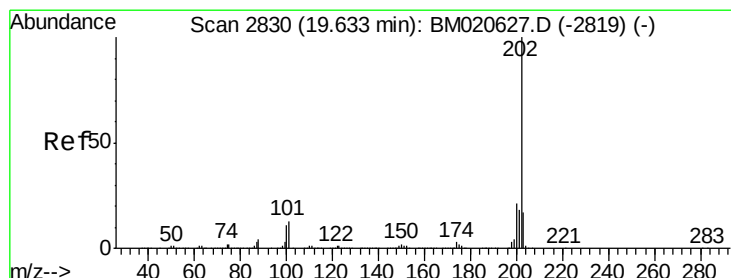
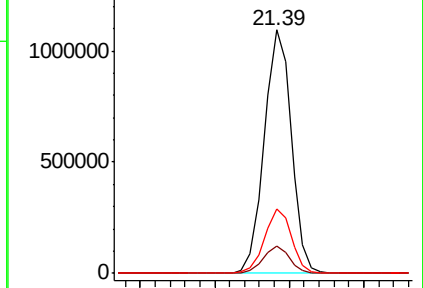
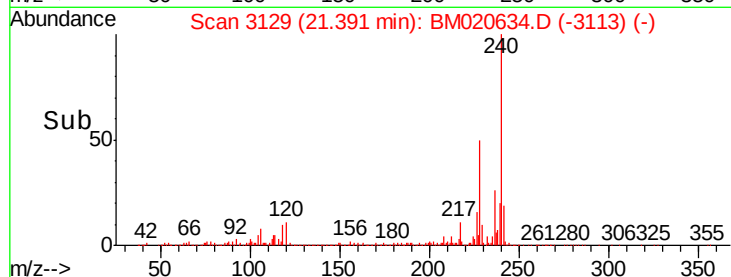
236 26.6 21.2 31.8



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

Pyrene

Concen: 60.376 ng

RT: 19.64 min Scan# 2831

Delta R.T. 0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

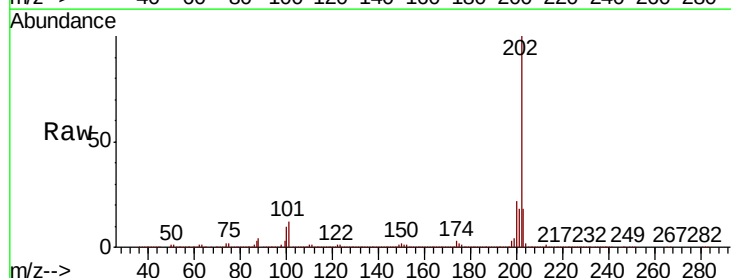
Tgt Ion:202 Resp: 6334690

Ion Ratio Lower Upper

202 100

200 21.6 16.8 25.2

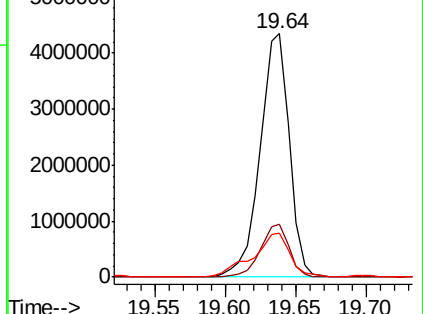
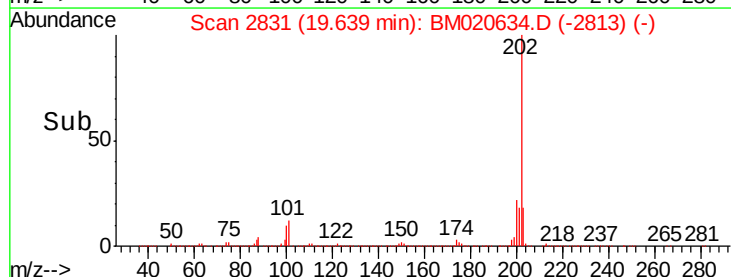
203 18.0 13.9 20.9

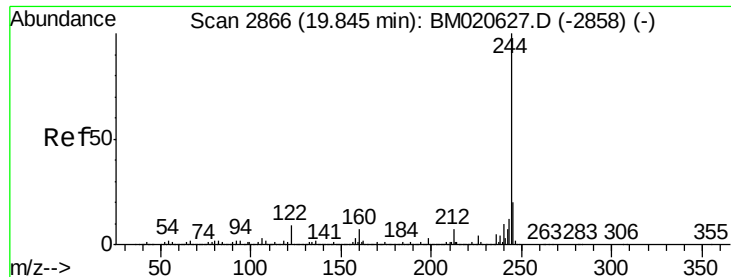


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 18.575 ng

RT: 19.84 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

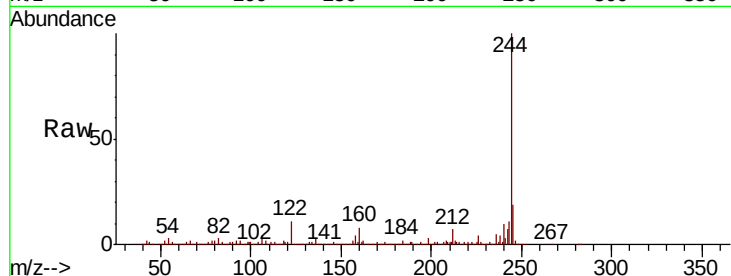
Tot Ion:244 Resp: 1518327

Ion Ratio Lower Upper

244 100

212 7.2 5.7 8.5

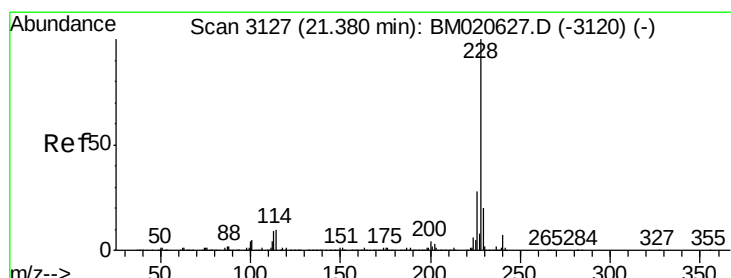
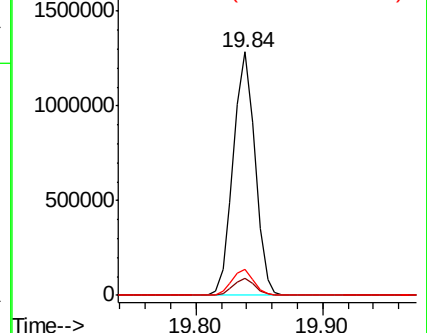
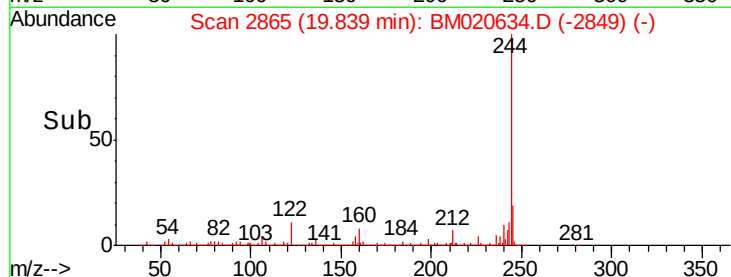
122 10.7 7.2 10.8



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



#81

Benzo(a)anthracene

Concen: 32.252 ng

RT: 21.38 min Scan# 3127

Delta R.T. -0.00 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

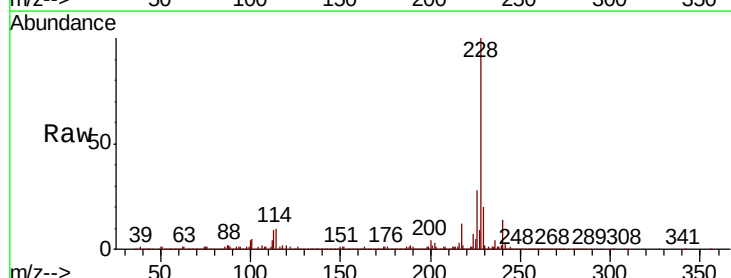
Tgt Ion:228 Resp: 3070841

Ion Ratio Lower Upper

228 100

226 28.4 22.3 33.5

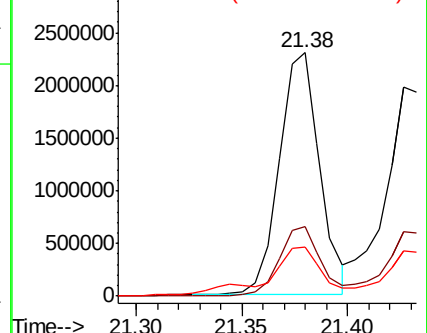
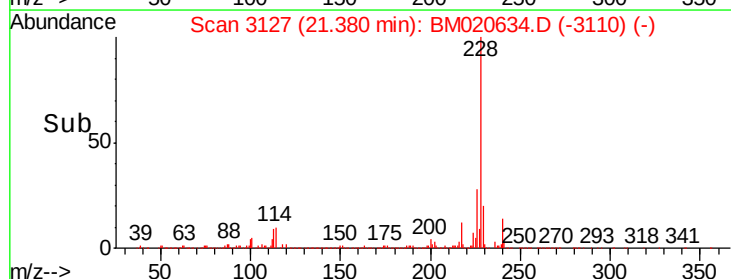
229 20.3 15.9 23.9

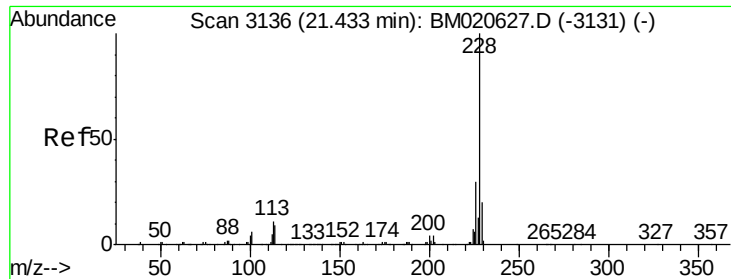


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 29.522 ng

RT: 21.43 min Scan# 3135

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

Instrument :

BNA_M

ClientSampleId :

B-6N(8.5-9.5)DL

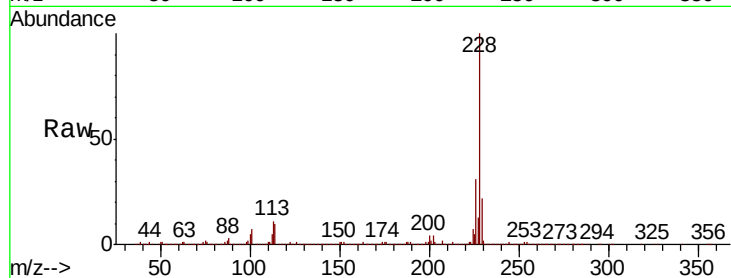
Tot Ion:228 Resp: 2671908

Ion Ratio Lower Upper

228 100

226 30.6 24.2 36.2

229 21.5 15.8 23.6

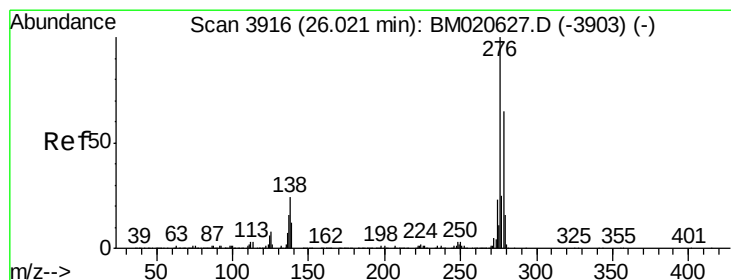
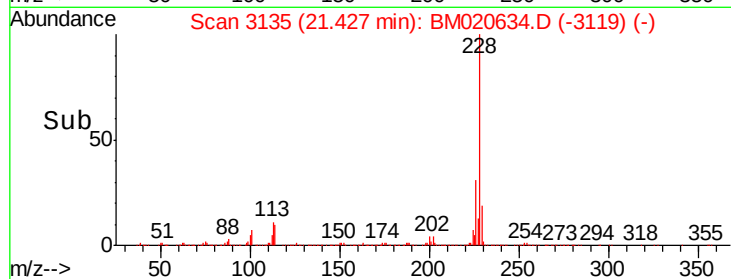
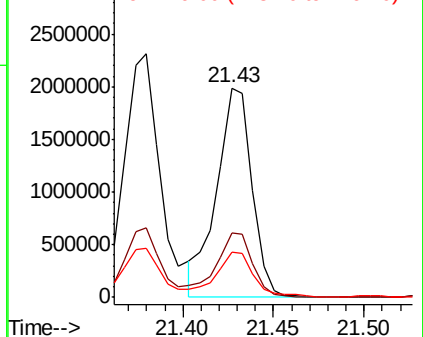


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 17.441 ng

RT: 26.01 min Scan# 3915

Delta R.T. -0.01 min

Lab File: BM020634.D

Acq: 31 May 2019 17:10

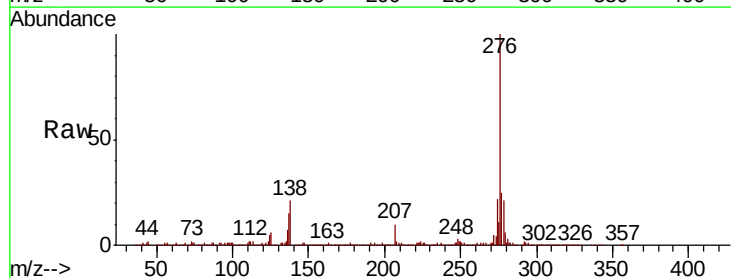
Tgt Ion:276 Resp: 1614925

Ion Ratio Lower Upper

276 100

138 21.8 19.8 29.8

277 24.9 20.2 30.4

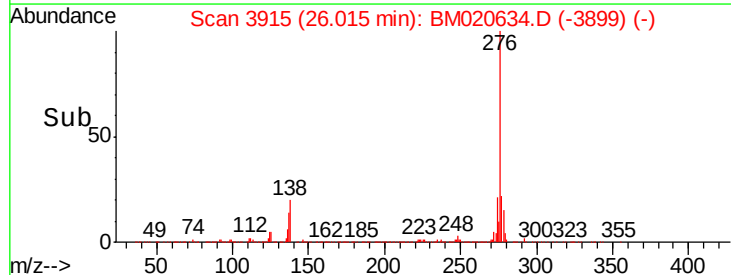
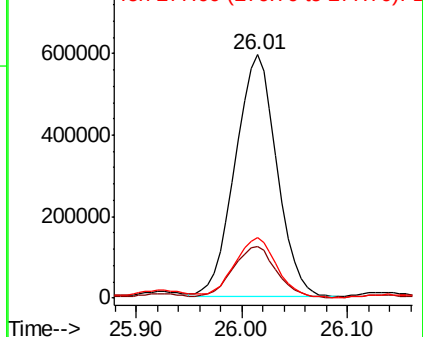


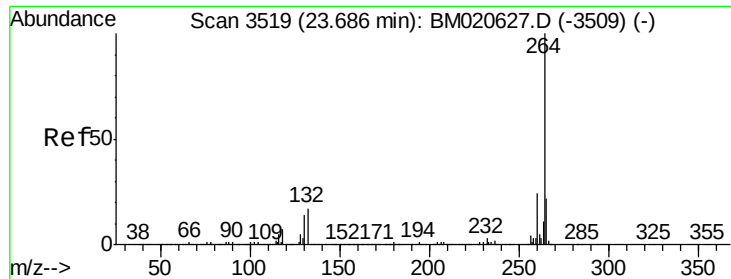
Abundance

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



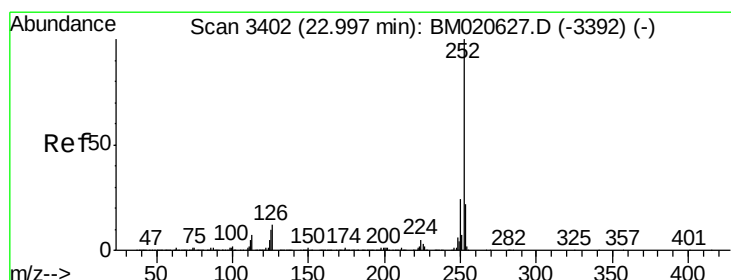
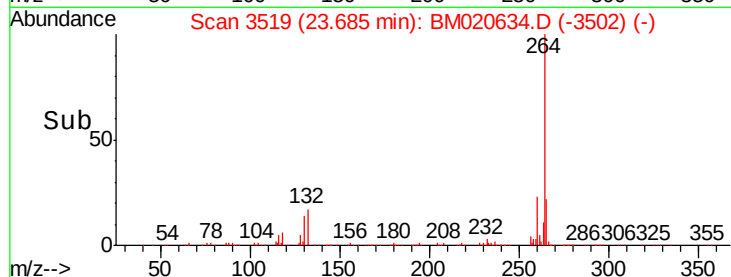
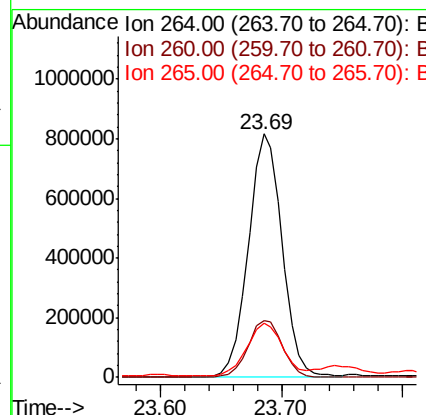
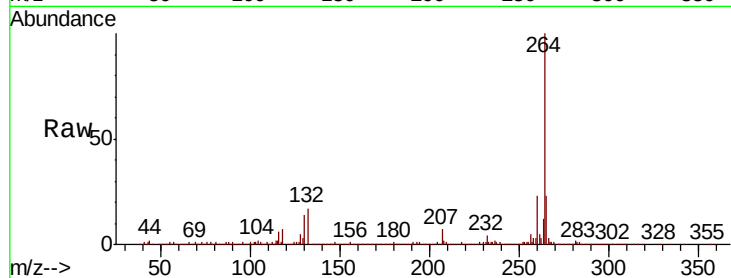


#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.69 min Scan# 3519
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion:264 Resp: 1585870

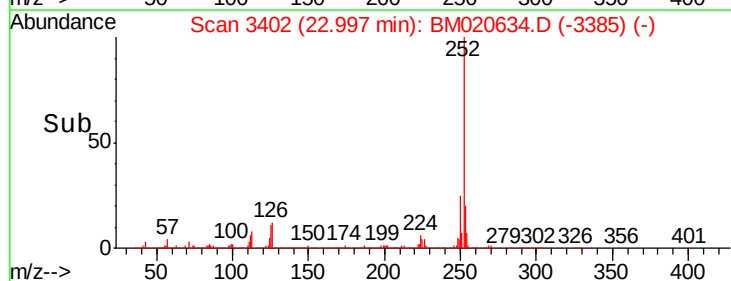
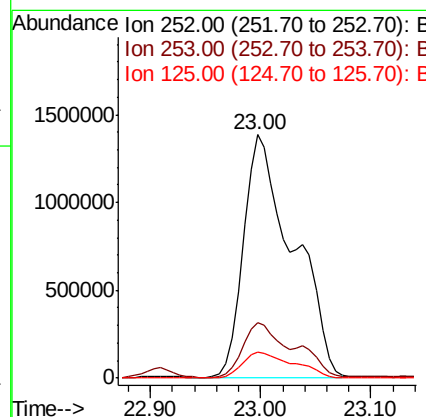
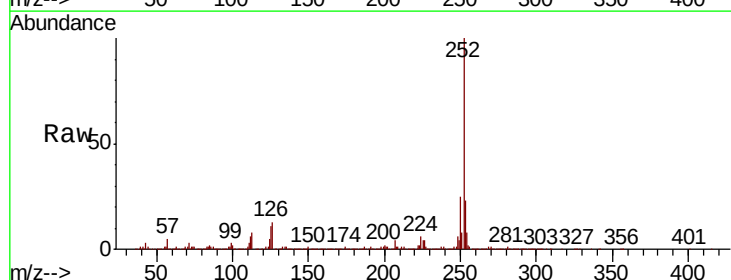
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.5	17.6	26.4

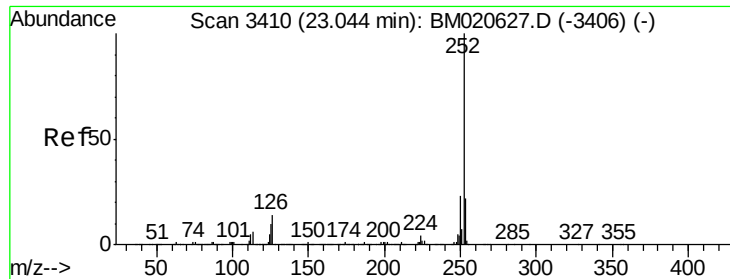


#88
Benzo(b)fluoranthene
Concen: 41.124 ng
RT: 23.00 min Scan# 3402
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion:252 Resp: 4310558

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	10.7	7.8	11.8

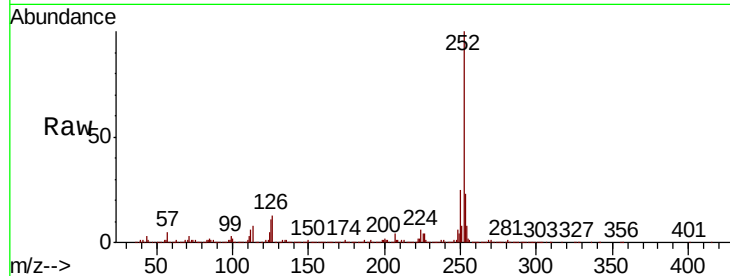




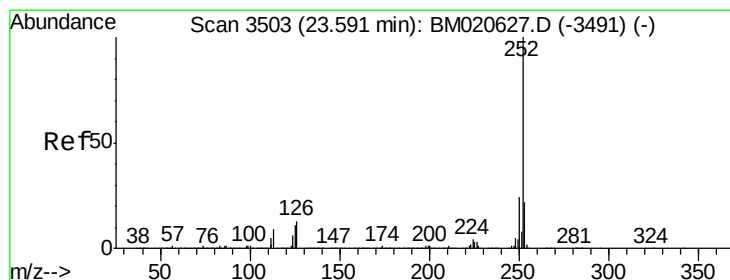
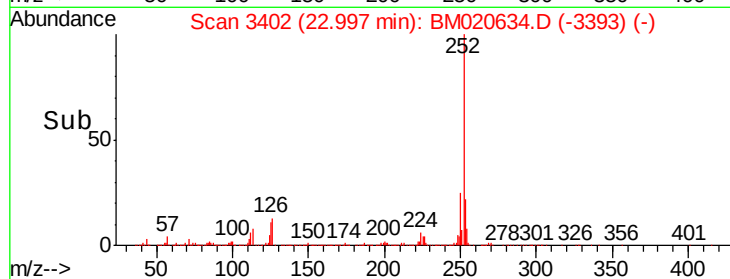
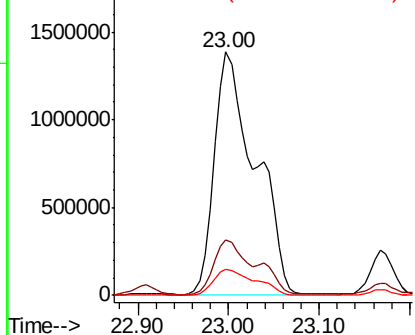
#89
Benzo(k)fluoranthene
Concen: 41.960 ng
RT: 23.00 min Scan# 3402
Delta R.T. -0.05 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Instrument :
BNA_M
ClientSampleId :
B-6N(8.5-9.5)DL

Tot Ion:252 Resp: 4298038
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 10.7 7.8 11.8

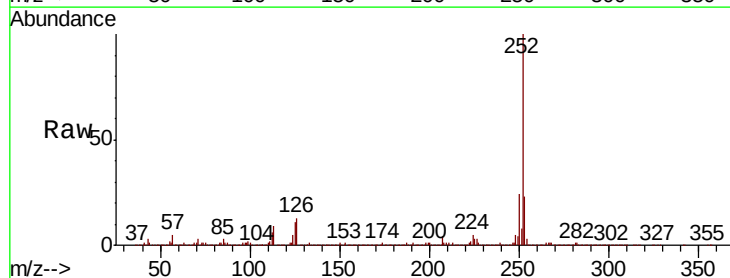


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

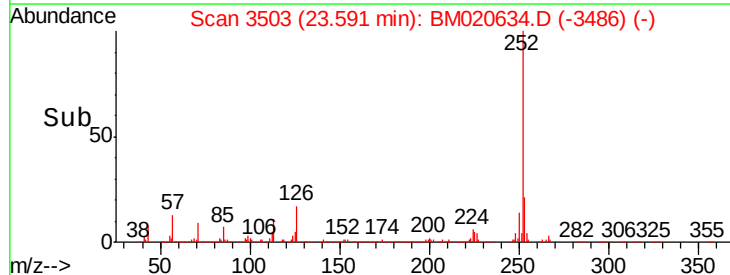
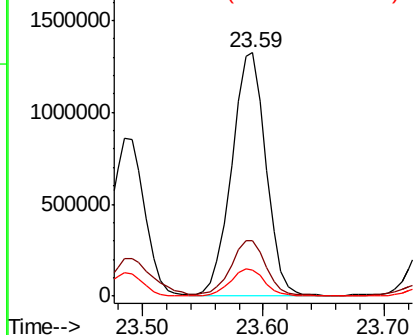


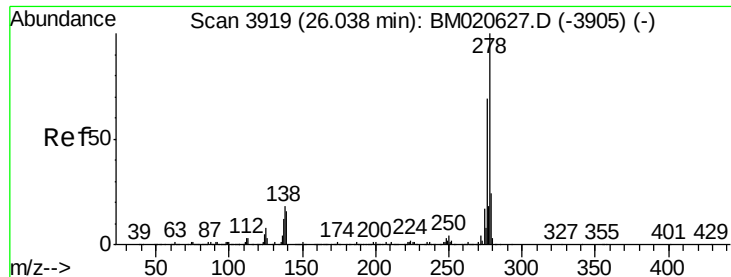
#90
Benzo(a)pyrene
Concen: 27.207 ng
RT: 23.59 min Scan# 3503
Delta R.T. -0.00 min
Lab File: BM020634.D
Acq: 31 May 2019 17:10

Tgt Ion:252 Resp: 2586673
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 10.7 8.6 13.0



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

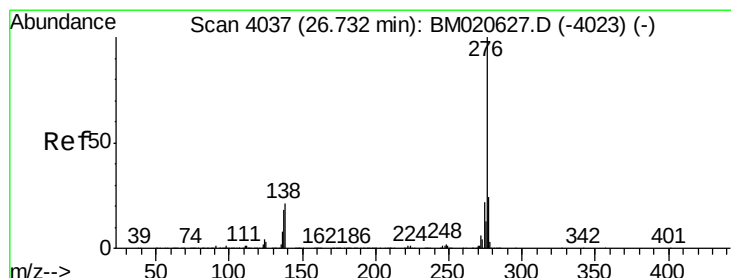
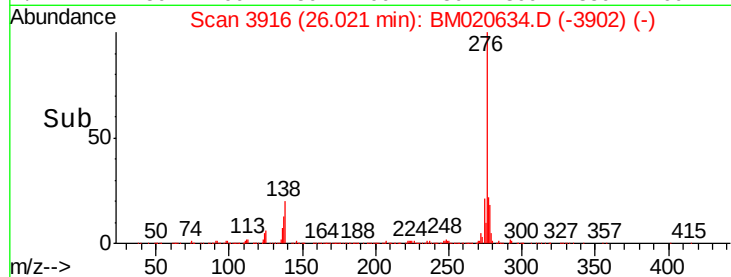
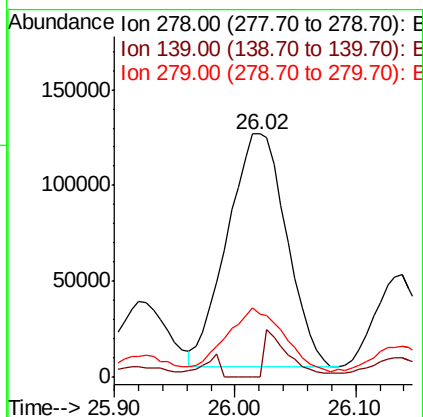
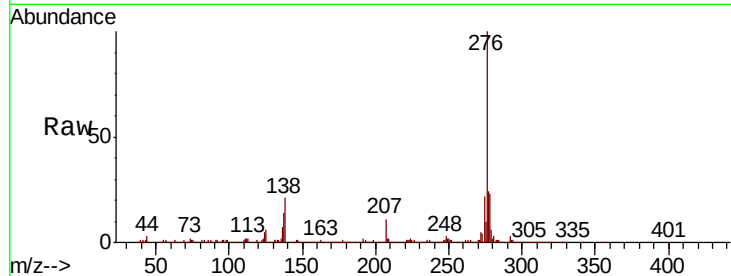




#91
 Dibenzo(a,h)anthracene
 Concen: 4.504 ng
 RT: 26.02 min Scan# 3916
 Delta R.T. -0.02 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Instrument :
 BNA_M
 ClientSampleId :
 B-6N(8.5-9.5)DL

Tot Ion:278 Resp: 415473
 Ion Ratio Lower Upper
 278 100
 139 0.0 12.6 18.8#
 279 26.2 19.0 28.6



#92
 Benzo(g,h,i)perylene
 Concen: 18.614 ng
 RT: 26.73 min Scan# 4037
 Delta R.T. -0.00 min
 Lab File: BM020634.D
 Acq: 31 May 2019 17:10

Tgt Ion:276 Resp: 1594766
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.2 28.8
 138 21.1 17.0 25.4

