

Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN041520\
 Data File : BN010506.D
 Acq On : 15 Apr 2020 13:59
 Operator : CG/JU
 Sample : L2178-01RE
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-4IRE

Quant Time: Apr 15 15:54:44 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN041320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 13 18:04:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	5164	0.40	ng	0.00
7) Naphthalene-d8	10.35	136	20609	0.40	ng	-0.01
13) Acenaphthene-d10	14.22	164	13132	0.40	ng	-0.01
19) Phenanthrene-d10	16.97	188	30452	0.40	ng	-0.01
27) Chrysene-d12	21.18	240	27212	0.40	ng	-0.01
34) Perylene-d12	23.35	264	24478	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.25	112	2517	0.22	ng	0.00
5) Phenol-d6	6.79	99	1909	0.13	ng	0.00
8) Nitrobenzene-d5	8.73	82	11406	0.79	ng	-0.01
11) 2-Methylnaphthalene-d10	11.95	152	14011	0.41	ng	0.00
14) 2,4,6-Tribromophenol	15.72	330	3470	0.56	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	40759	0.85	ng	-0.01
25) Fluoranthene-d10	19.01	212	38557	0.42	ng	0.00
29) Terphenyl-d14	19.62	244	56328	0.90	ng	0.00

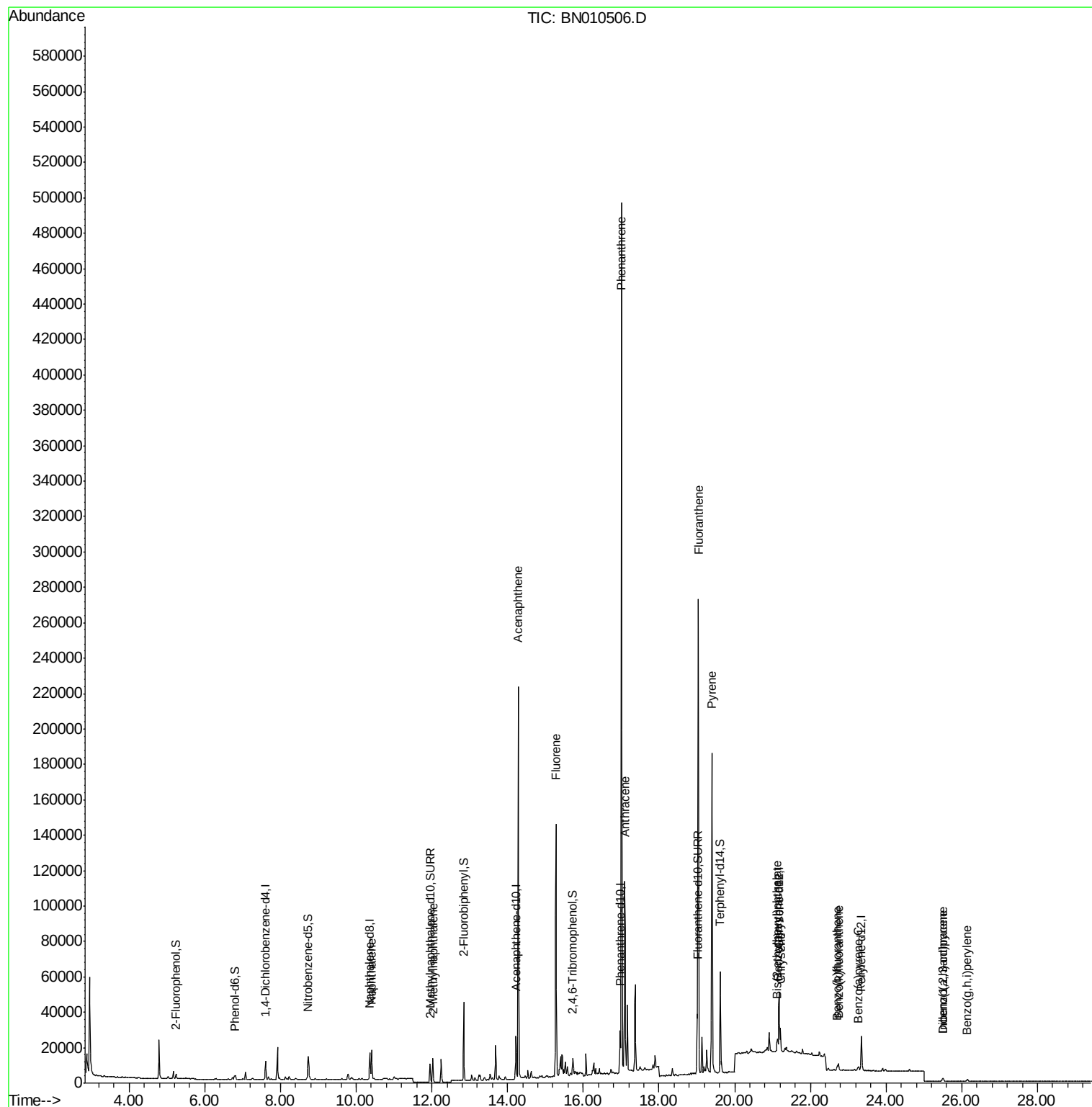
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.41	128	21165	0.414	ng	99
12) 2-Methylnaphthalene	12.03	142	9474	0.258	ng	99
17) Acenaphthene	14.29	154	110372	3.028	ng	99
18) Fluorene	15.28	166	88362	1.851	ng	98
23) Phenanthrene	17.01	178	496631	6.038	ng	100
24) Anthracene	17.10	178	109539	1.457	ng	# 95
26) Fluoranthene	19.04	202	237417	2.319	ng	100
28) Pyrene	19.40	202	162807	1.777	ng	# 92
30) Benzo(a)anthracene	21.16	228	15474	0.174	ng	# 87
31) Chrysene	21.21	228	10760	0.122	ng	# 79
32) Bis(2-ethylhexyl)phthalate	21.11	149	3917	0.086	ng	99
33) Indeno(1,2,3-cd)pyrene	25.50	276	2065	0.026	ng	96
35) Benzo(b)fluoranthene	22.71	252	3346	0.042	ng	# 33
36) Benzo(k)fluoranthene	22.75	252	2722	0.034	ng	# 1
37) Benzo(a)pyrene	23.25	252	2527	0.035	ng	# 12
38) Dibenzo(a,h)anthracene	25.51	278	1627	0.025	ng	# 29
39) Benzo(a,h,i)perylene	26.14	276	2015	0.031	ng	# 70

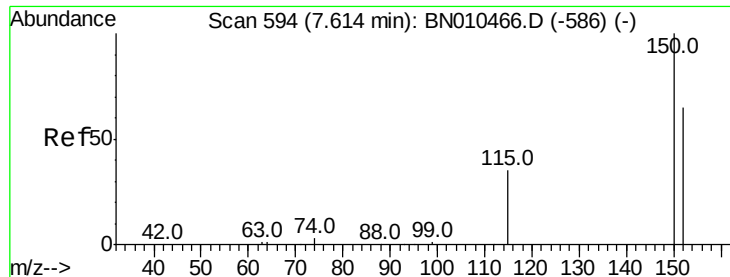
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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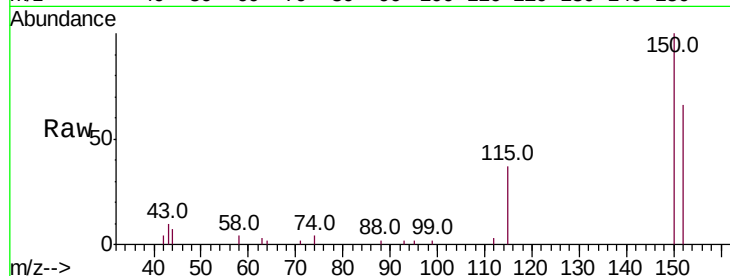


#1

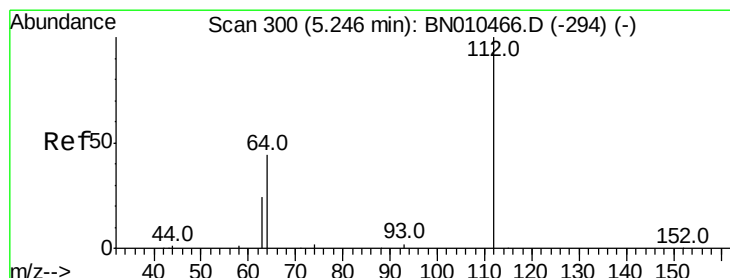
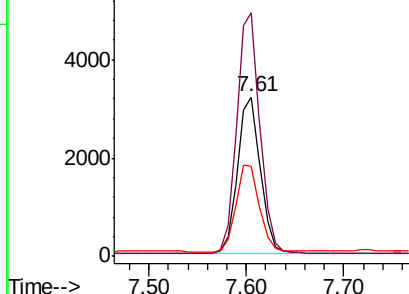
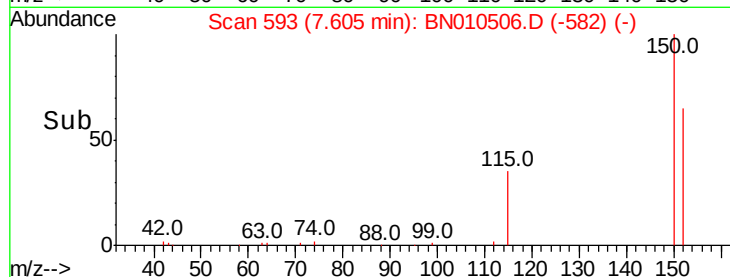
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.61 min Scan# 593
 Delta R.T. -0.01 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

Instrument :
 BNA_N
 ClientSampleId :
 MW-4IRE

Tot Ion:152 Resp: 5164
 Ion Ratio Lower Upper
 152 100
 150 152.5 121.8 182.6
 115 56.3 45.5 68.3



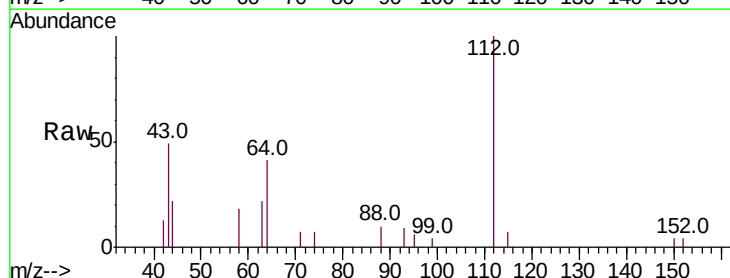
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



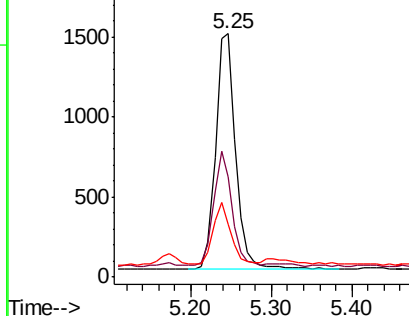
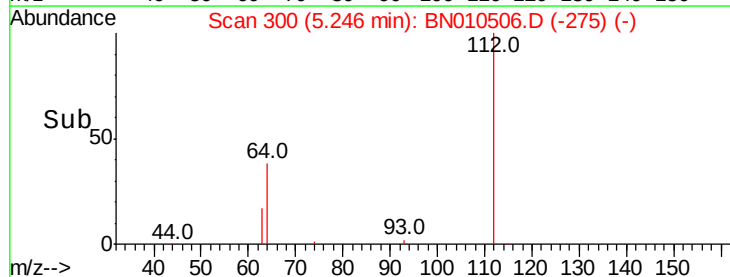
#4

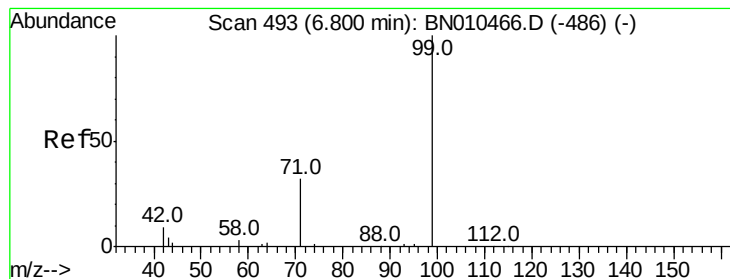
2-Fluorophenol
 Concen: 0.223 ng
 RT: 5.25 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

Tgt Ion:112 Resp: 2517
 Ion Ratio Lower Upper
 112 100
 64 45.8 35.8 53.8
 63 23.2 19.9 29.9



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BNC
 Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.129 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampled :

MW-4IRE

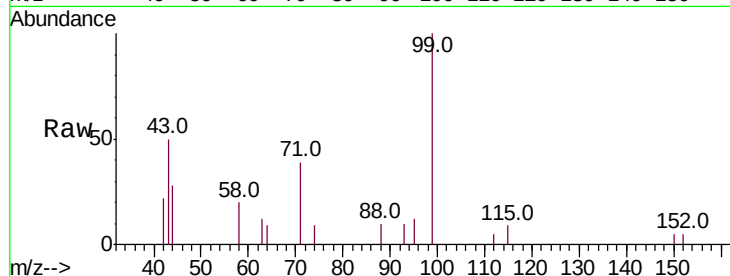
Tot Ion: 99 Resp: 1909

Ion Ratio Lower Upper

99 100

42 19.0 9.8 14.6#

71 36.2 27.8 41.8

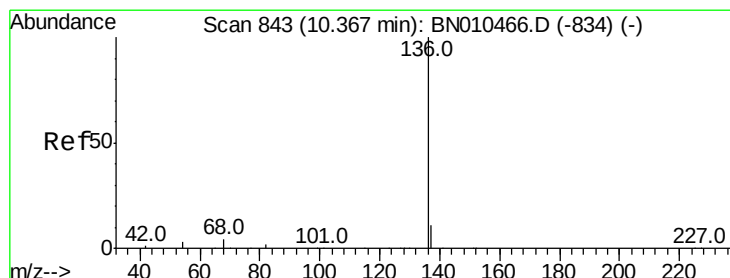
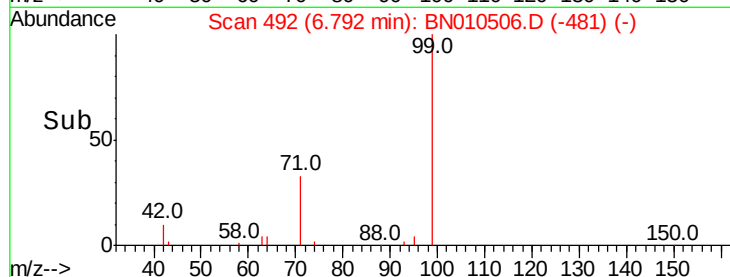
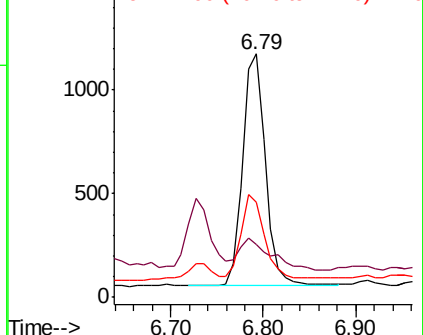


Abundance

Ion 99.00 (98.70 to 99.70): BN0

Ion 42.00 (41.70 to 42.70): BN0

Ion 71.00 (70.70 to 71.70): BN0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.35 min Scan# 842

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Tgt Ion: 136 Resp: 20609

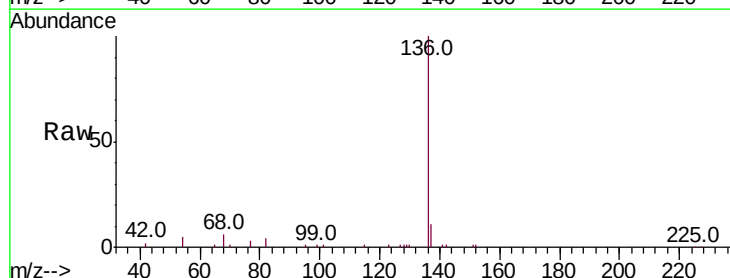
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 4.7 2.6 4.0#

68 5.8 3.4 5.2#



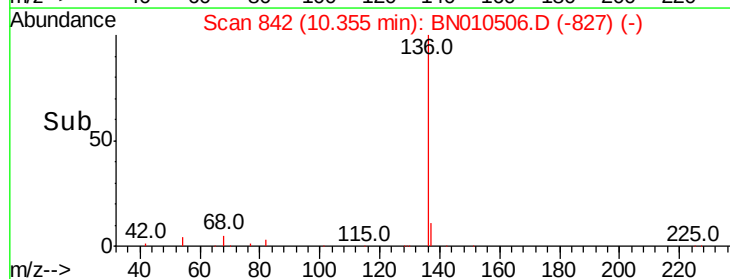
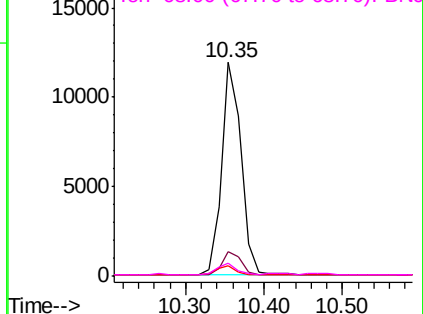
Abundance

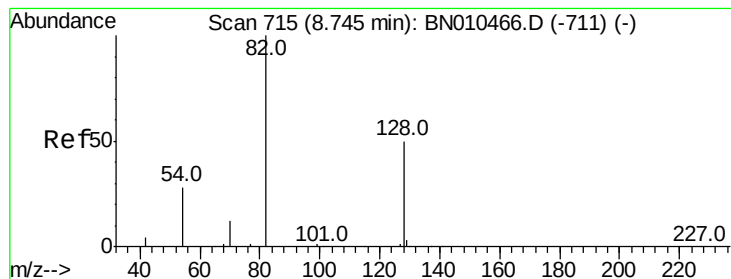
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BN0

Ion 68.00 (67.70 to 68.70): BN0





#8

Nitrobenzene-d5

Concen: 0.792 ng

RT: 8.73 min Scan# 714

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

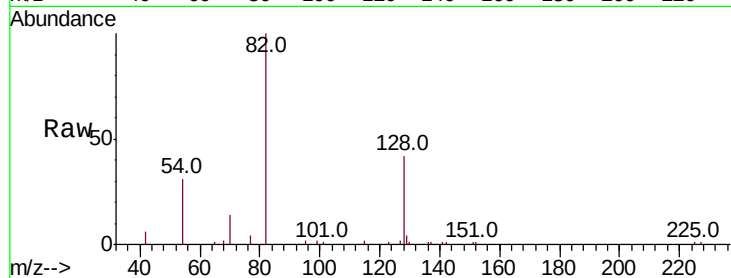
Tot Ion: 82 Resp: 11406

Ion Ratio Lower Upper

82 100

128 42.0 41.3 61.9

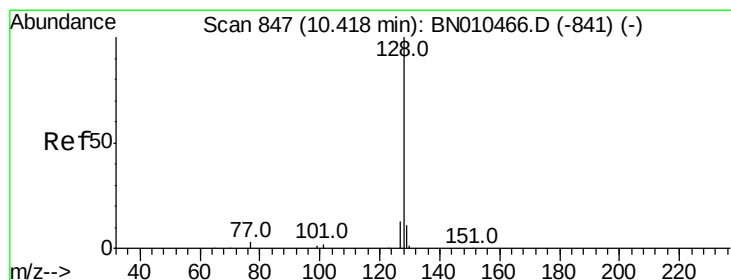
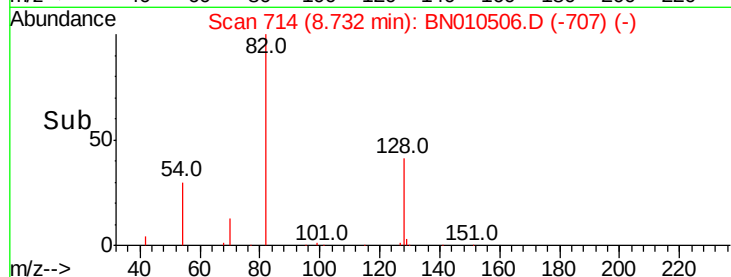
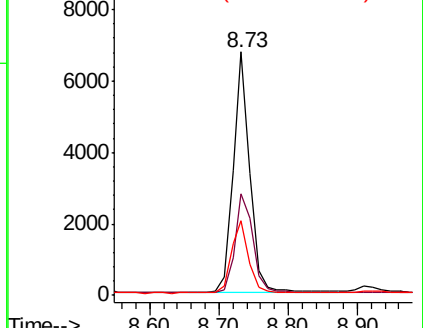
54 30.9 23.4 35.0



Abundance Ion 82.00 (81.70 to 82.70): BN010466.D (-711) (-)

Ion 128.00 (127.70 to 128.70): BN010466.D (-711) (-)

Ion 54.00 (53.70 to 54.70): BN010466.D (-711) (-)



#9

Naphthalene

Concen: 0.414 ng

RT: 10.41 min Scan# 846

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

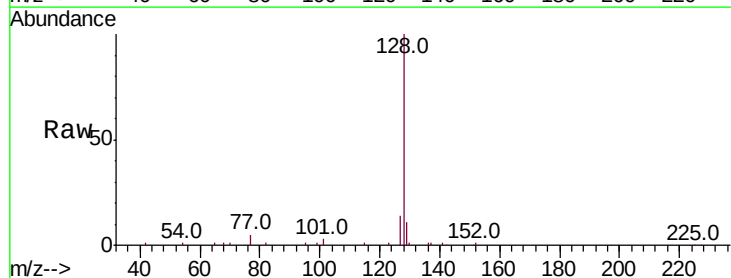
Tgt Ion: 128 Resp: 21165

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

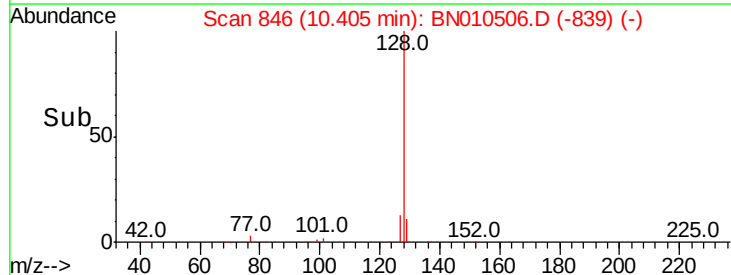
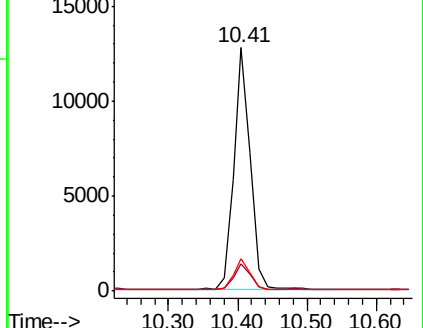
127 13.6 10.5 15.7

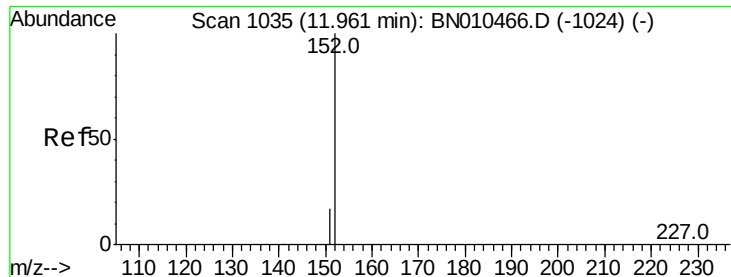


Abundance Ion 128.00 (127.70 to 128.70): BN010466.D (-841) (-)

Ion 129.00 (128.70 to 129.70): BN010466.D (-841) (-)

Ion 127.00 (126.70 to 127.70): BN010466.D (-841) (-)

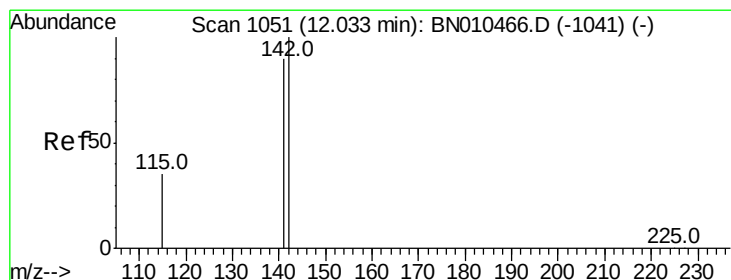
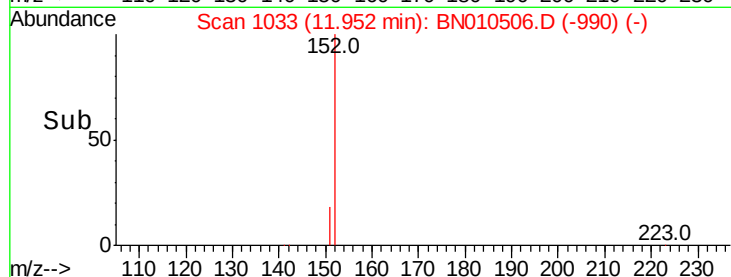
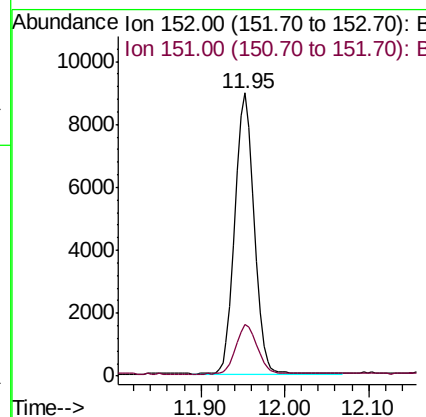
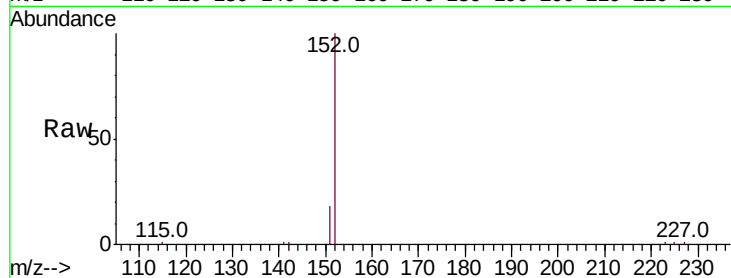




#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.95 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

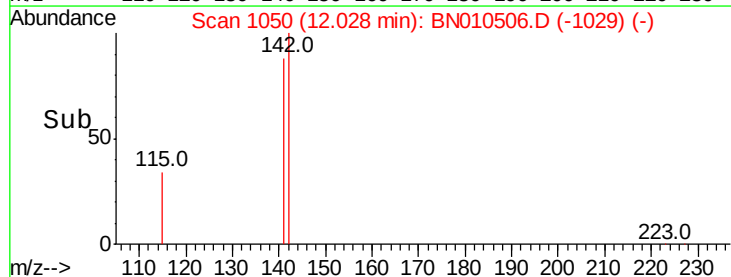
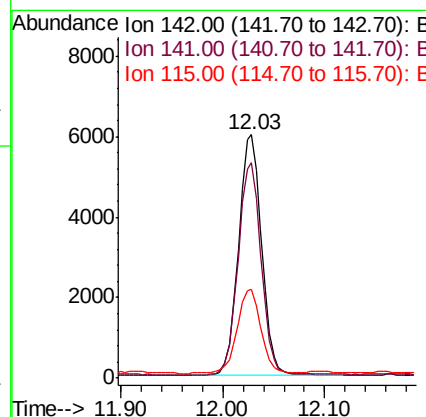
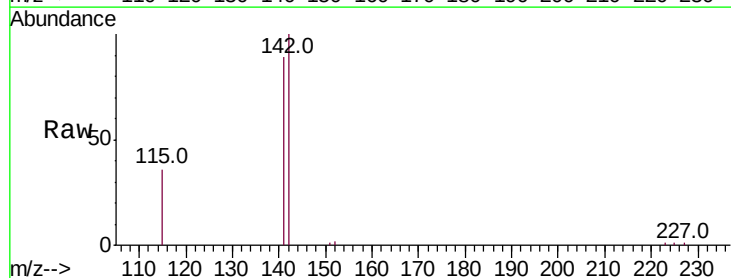
Instrument :
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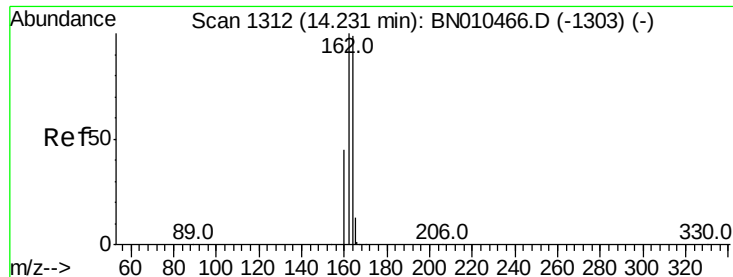
Tot Ion:152 Resp: 14011
Ion Ratio Lower Upper
152 100
151 19.5 15.3 22.9



#12
2-Methylnaphthalene
Concen: 0.258 ng
RT: 12.03 min Scan# 1050
Delta R.T. -0.00 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

Tgt Ion:142 Resp: 9474
Ion Ratio Lower Upper
142 100
141 88.7 71.9 107.9
115 36.2 28.8 43.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.22 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

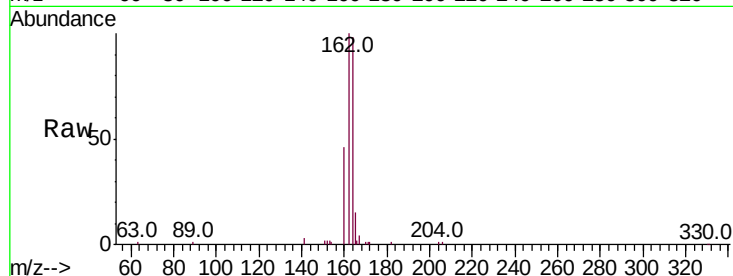
Tot Ion:164 Resp: 13132

Ion Ratio Lower Upper

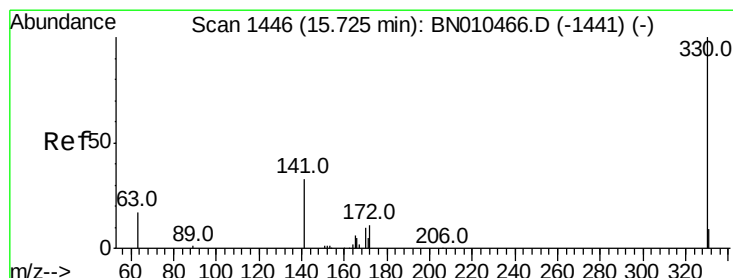
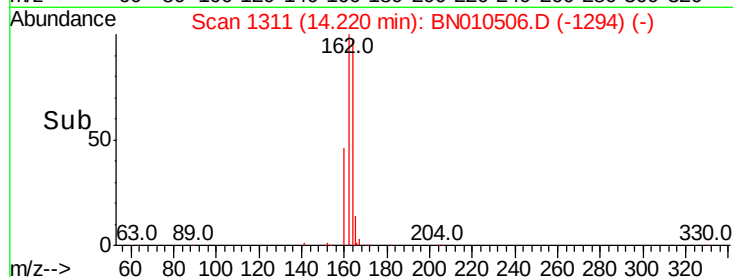
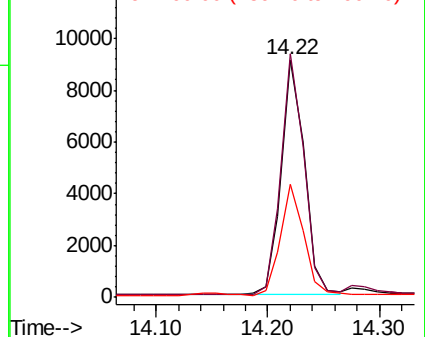
164 100

162 102.5 80.6 121.0

160 47.4 36.5 54.7



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



#14

2,4,6-Tribromophenol

Concen: 0.561 ng

RT: 15.72 min Scan# 1446

Delta R.T. -0.00 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

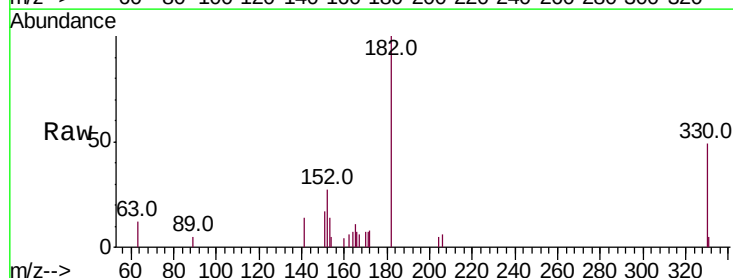
Tgt Ion:330 Resp: 3470

Ion Ratio Lower Upper

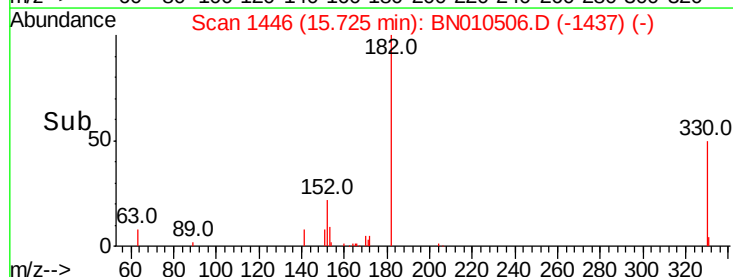
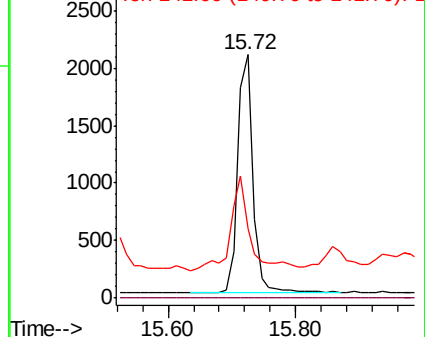
330 100

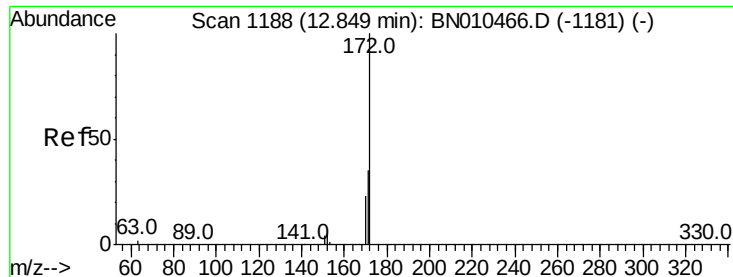
332 0.0 0.0 0.0

141 49.8 28.1 42.1#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

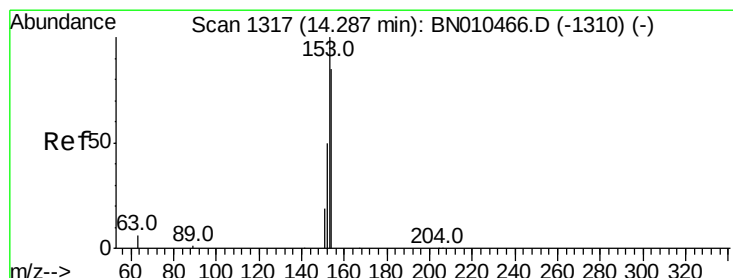
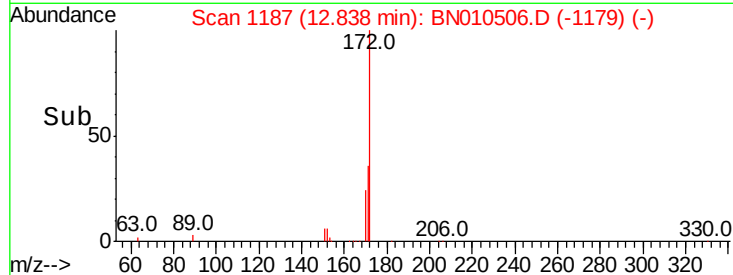
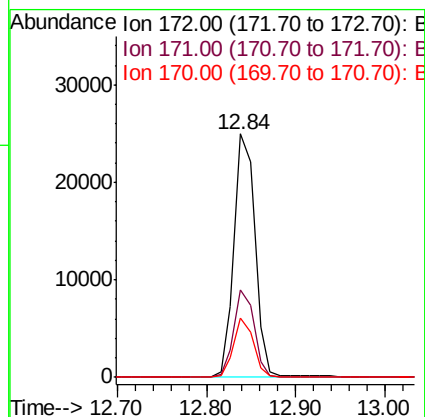
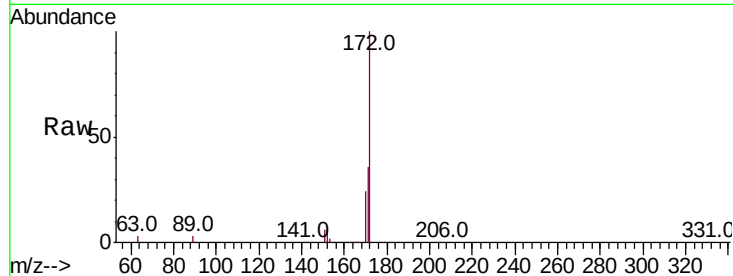




#15
2-Fluorobiphenyl
Concen: 0.853 ng
RT: 12.84 min Scan# 1187
Delta R.T. -0.01 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

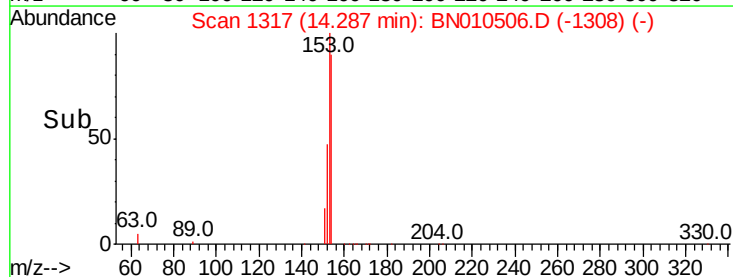
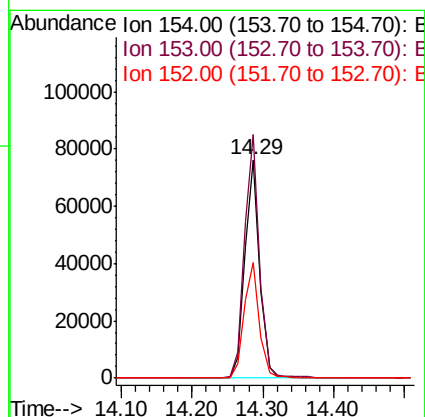
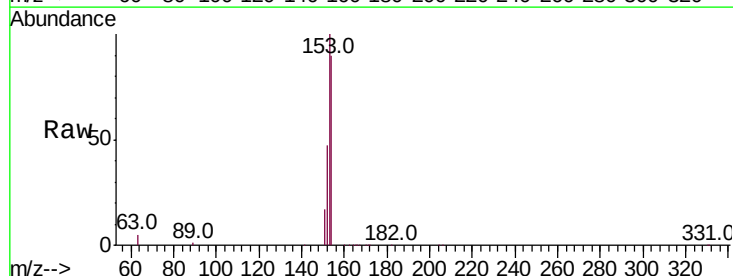
Instrument :
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MW-4IRE

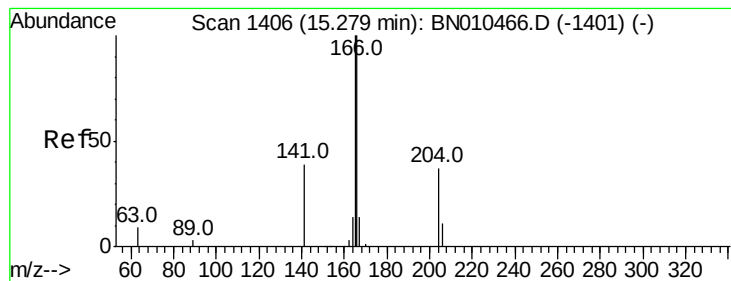
Tot Ion:172 Resp: 40759
Ion Ratio Lower Upper
172 100
171 35.8 28.2 42.2
170 24.3 18.4 27.6



#17
Acenaphthene
Concen: 3.028 ng
RT: 14.29 min Scan# 1317
Delta R.T. -0.00 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

Tgt Ion:154 Resp: 110372
Ion Ratio Lower Upper
154 100
153 113.2 91.0 136.4
152 54.3 44.6 67.0





#18

Fluorene

Concen: 1.851 ng

RT: 15.28 min Scan# 1406

Delta R.T. -0.00 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

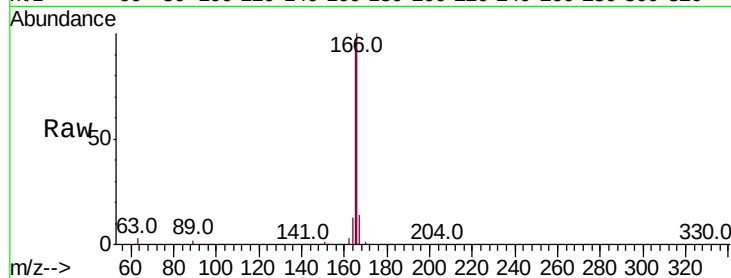
Tot Ion:166 Resp: 88362

Ion Ratio Lower Upper

166 100

165 96.4 78.4 117.6

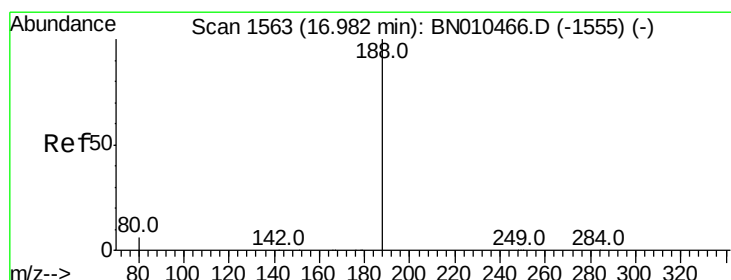
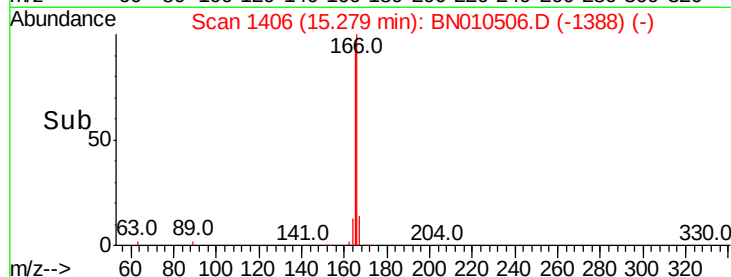
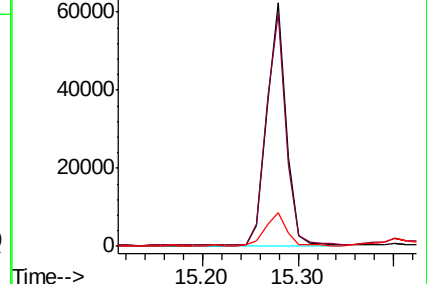
167 14.5 10.9 16.3



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.97 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

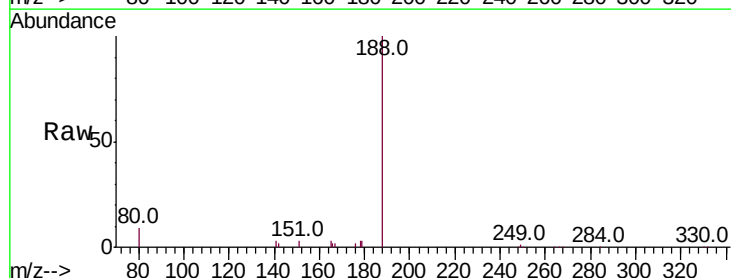
Tgt Ion:188 Resp: 30452

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

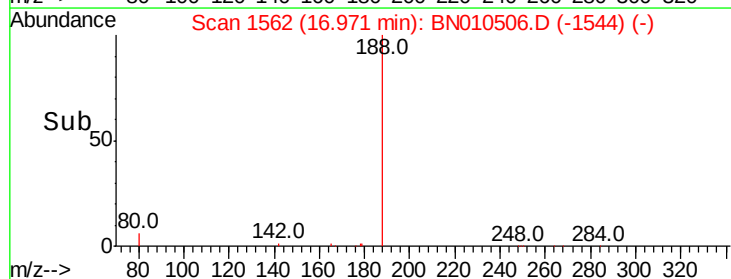
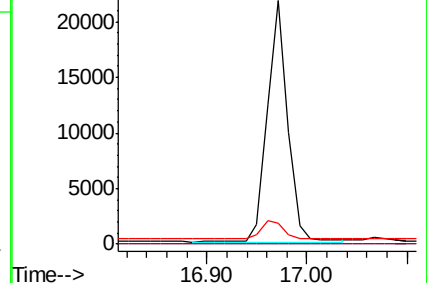
80 8.6 5.0 7.6#

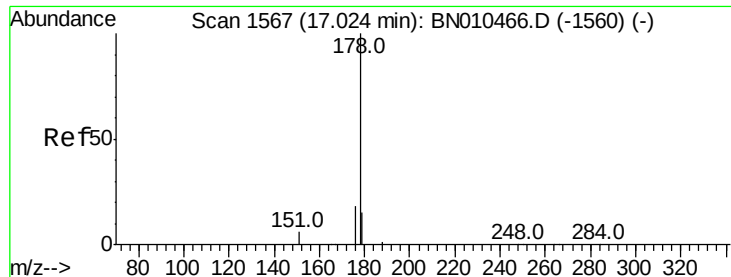


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 6.038 ng

RT: 17.01 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

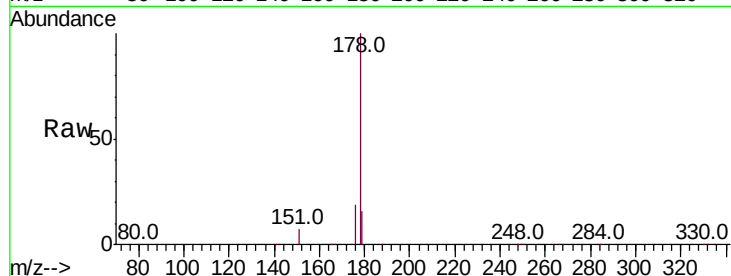
Tot Ion:178 Resp: 496631

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

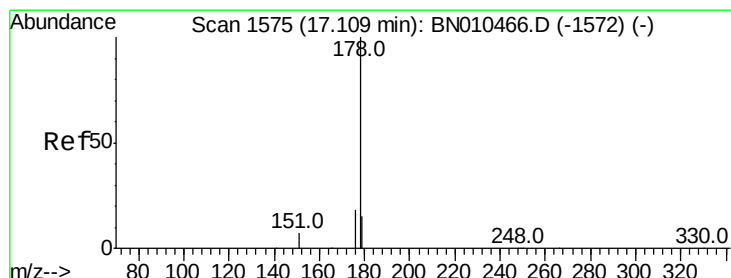
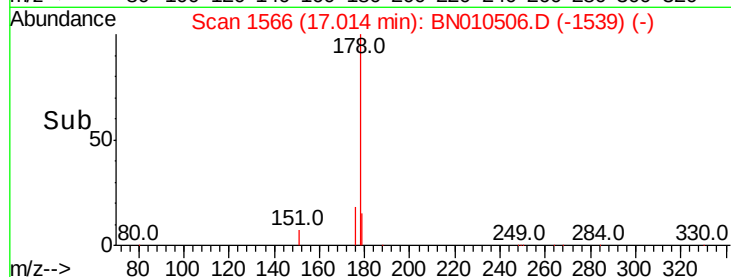
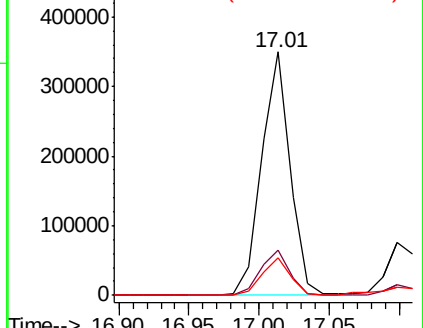
179 15.5 12.6 18.8



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



#24

Anthracene

Concen: 1.457 ng

RT: 17.10 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

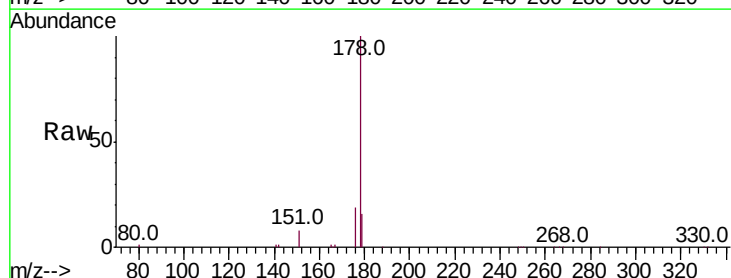
Tgt Ion:178 Resp: 109539

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

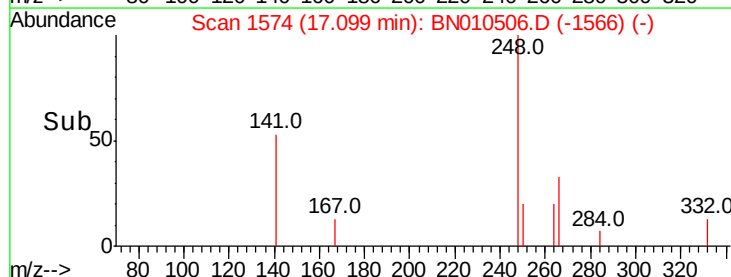
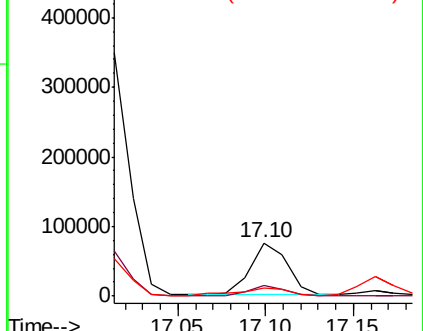
179 19.2 12.2 18.2#

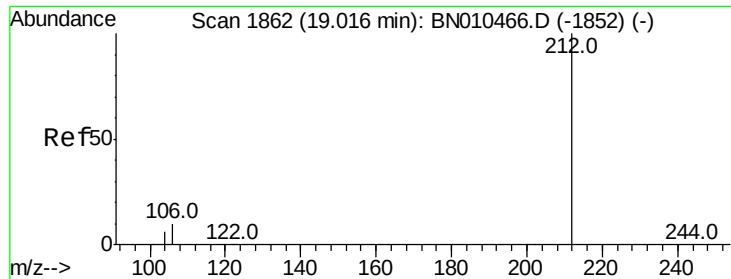


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.418 ng

RT: 19.01 min Scan# 1861

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

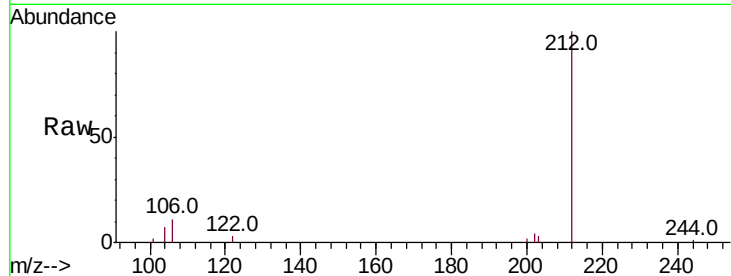
Tot Ion:212 Resp: 38557

Ion Ratio Lower Upper

212 100

106 10.1 7.8 11.6

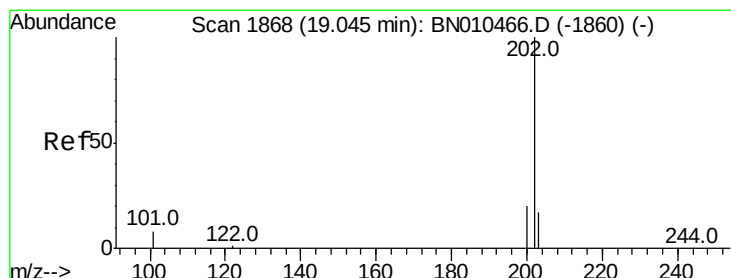
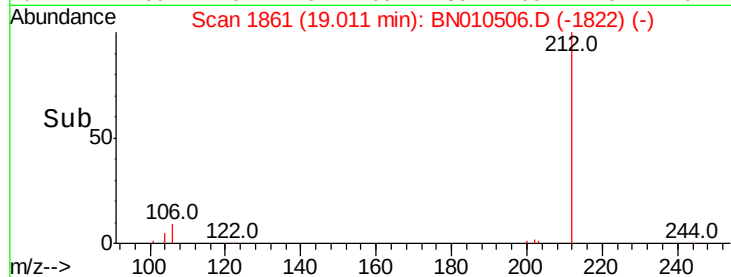
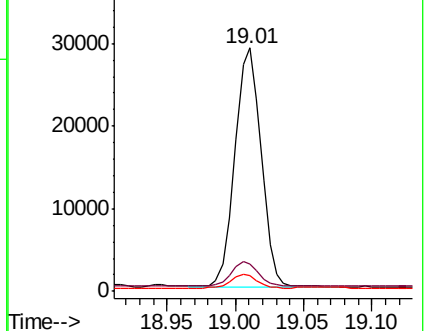
104 5.9 4.5 6.7



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 2.319 ng

RT: 19.04 min Scan# 1867

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

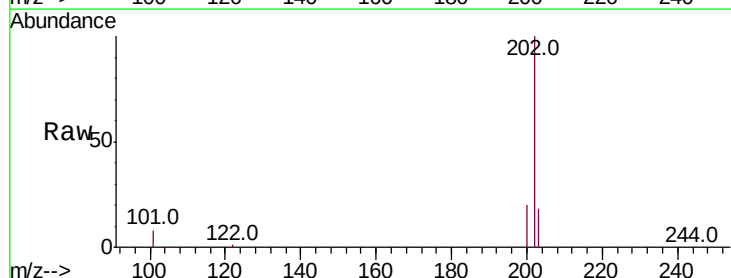
Tgt Ion:202 Resp: 237417

Ion Ratio Lower Upper

202 100

101 8.5 6.9 10.3

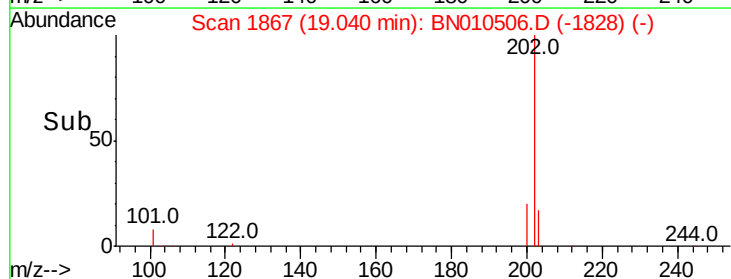
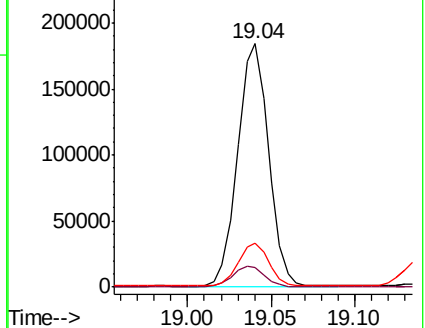
203 17.4 13.9 20.9

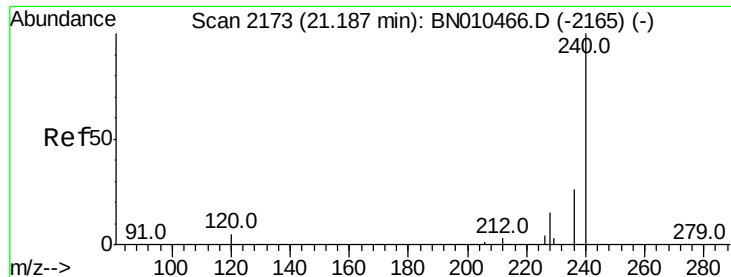


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

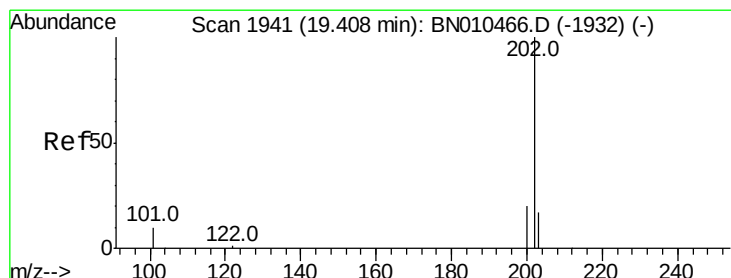
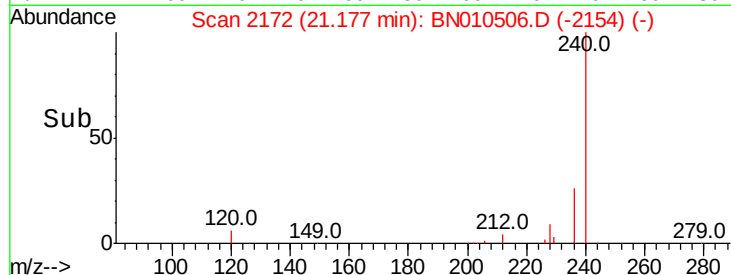
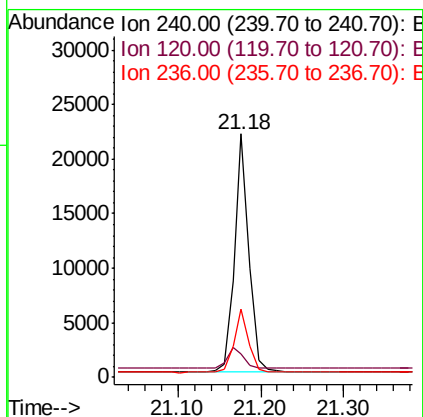
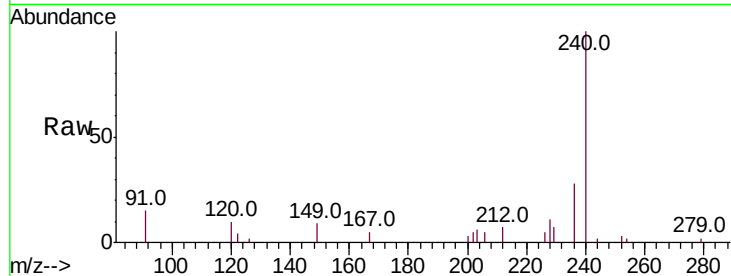




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.18 min Scan# 2172
 Delta R.T. -0.01 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

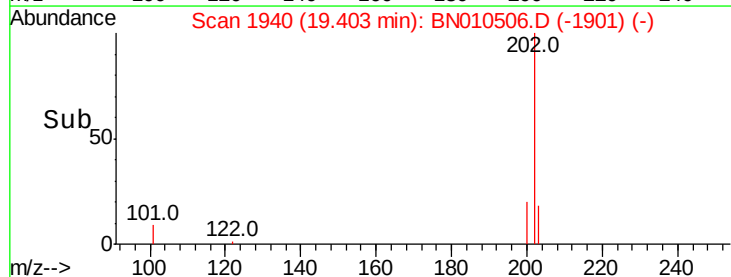
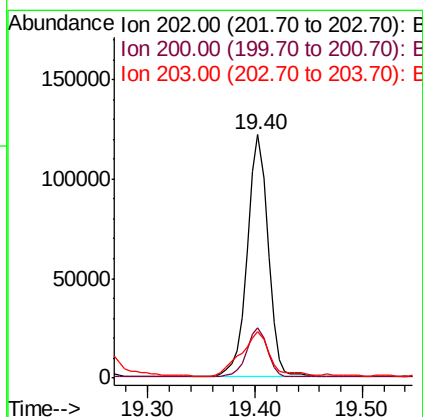
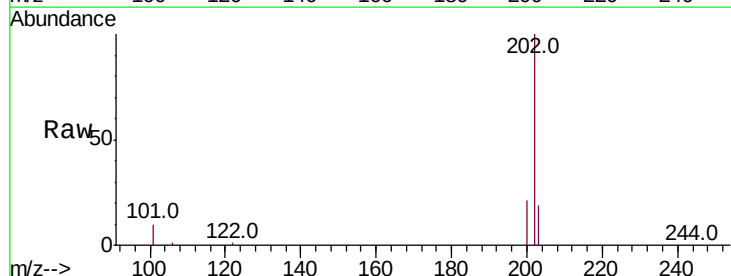
Instrument :
 BNA_N
 ClientSampleId :
 MW-4IRE

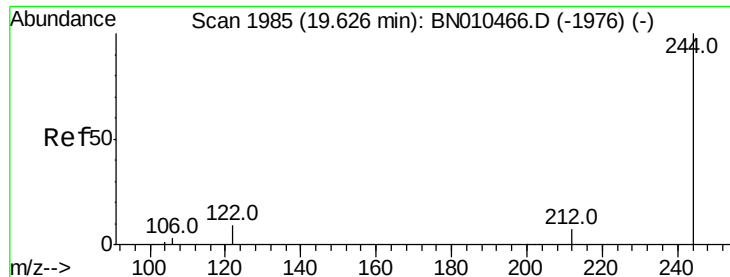
Tot Ion:240 Resp: 27212
 Ion Ratio Lower Upper
 240 100
 120 9.9 4.8 7.2#
 236 27.9 21.4 32.0



#28
 Pyrene
 Concen: 1.777 ng
 RT: 19.40 min Scan# 1940
 Delta R.T. -0.01 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

Tgt Ion:202 Resp: 162807
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.3 24.5
 203 25.1 14.0 21.0#





#29

Terphenyl-d14

Concen: 0.904 ng

RT: 19.62 min Scan# 1984

Delta R.T. -0.00 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

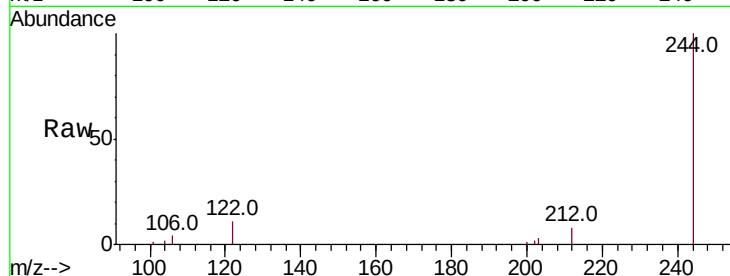
Tot Ion:244 Resp: 56328

Ion Ratio Lower Upper

244 100

212 8.3 6.2 9.4

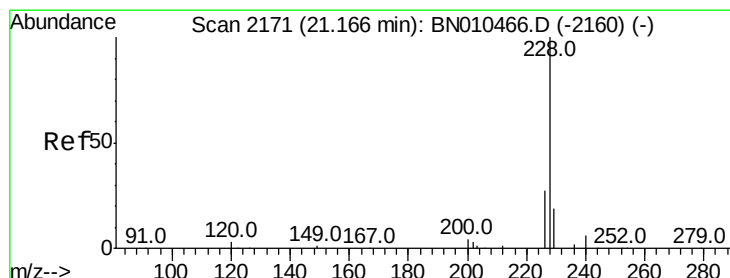
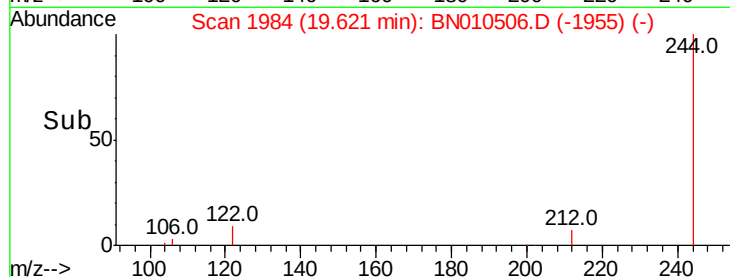
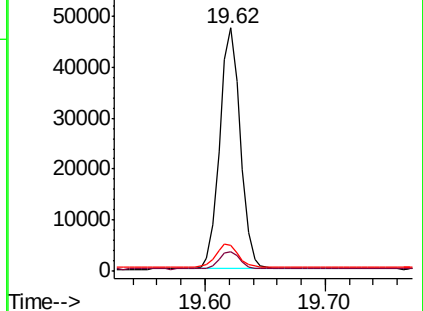
122 10.8 7.8 11.8



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



#30

Benzo(a)anthracene

Concen: 0.174 ng

RT: 21.16 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

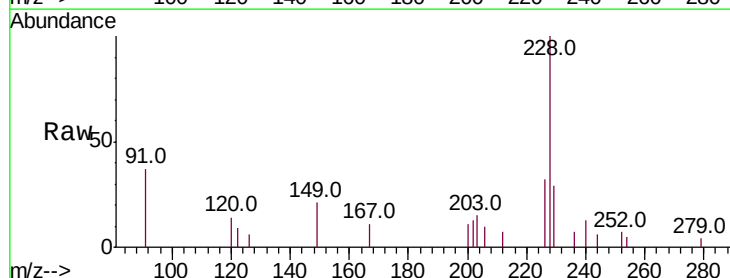
Tgt Ion:228 Resp: 15474

Ion Ratio Lower Upper

228 100

226 31.5 21.7 32.5

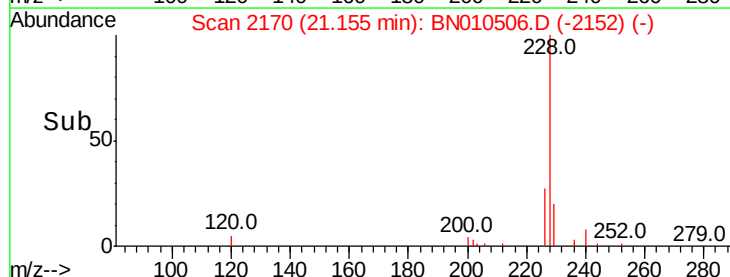
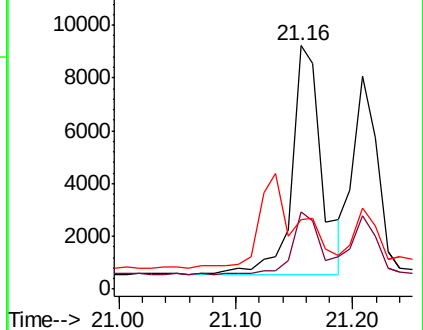
229 28.6 15.6 23.4#

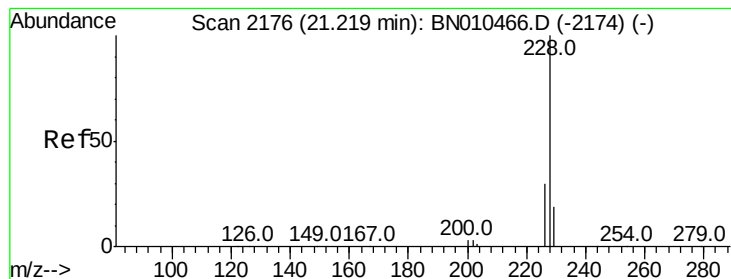


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.122 ng

RT: 21.21 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

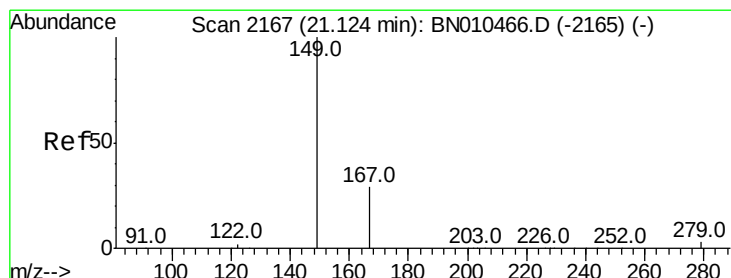
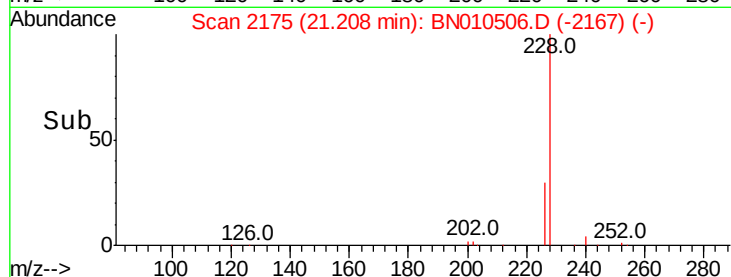
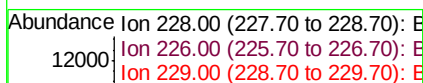
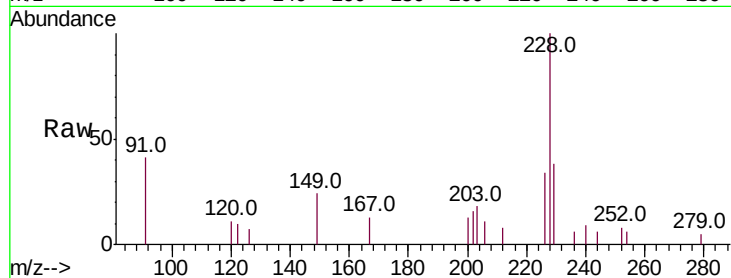
Tot Ion:228 Resp: 10760

Ion Ratio Lower Upper

228 100

226 34.5 24.0 36.0

229 38.1 15.8 23.6#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.086 ng

RT: 21.11 min Scan# 2166

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

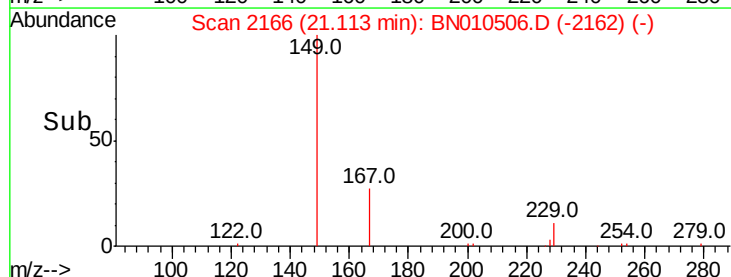
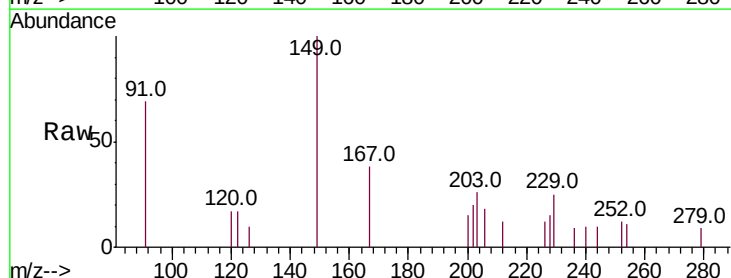
Tgt Ion:149 Resp: 3917

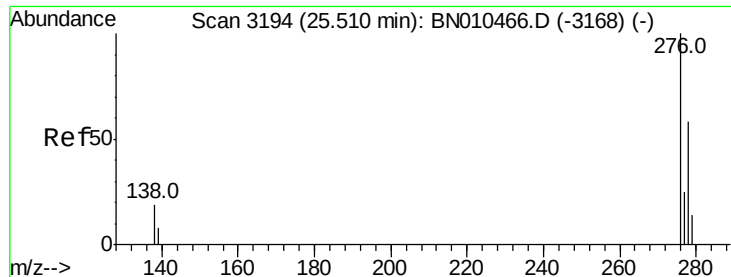
Ion Ratio Lower Upper

149 100

167 28.9 23.4 35.0

279 5.9 4.0 6.0

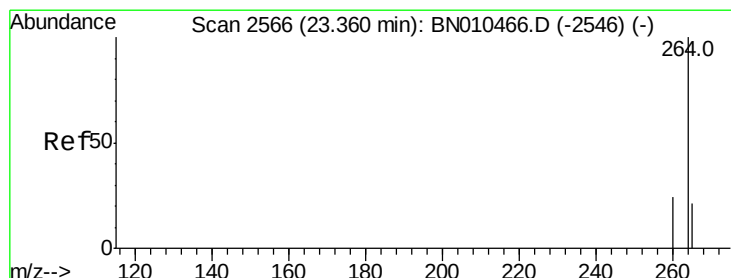
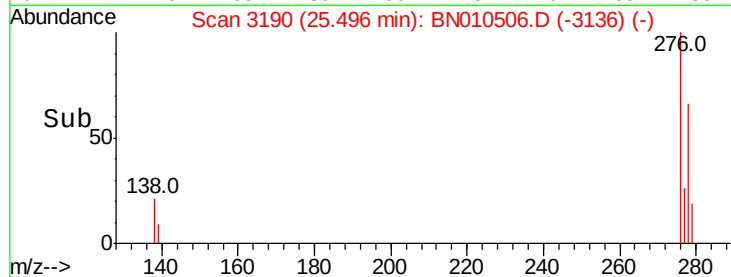
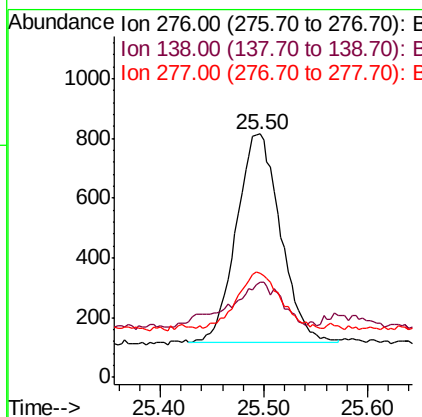
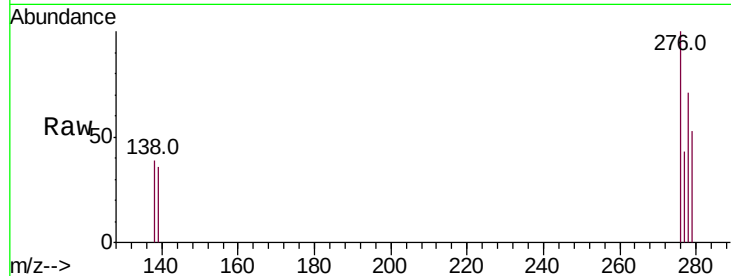




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.026 ng
 RT: 25.50 min Scan# 3190
 Delta R.T. -0.01 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

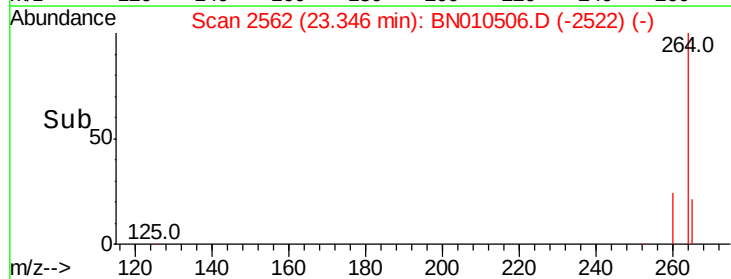
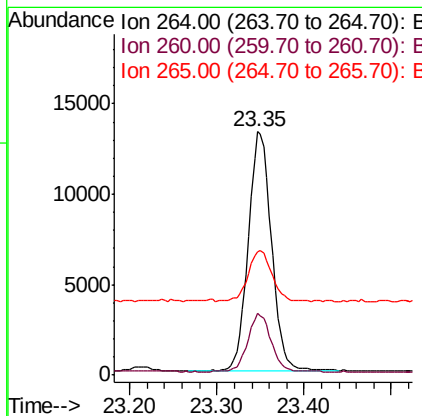
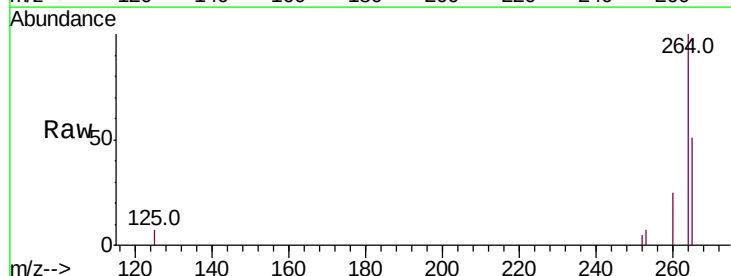
Instrument :
 BNA_N
 ClientSampled :
 MW-4IRE

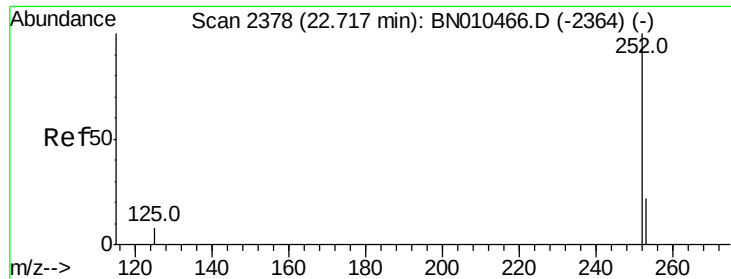
Tot Ion:276 Resp: 2065
 Ion Ratio Lower Upper
 276 100
 138 20.2 16.4 24.6
 277 27.8 19.8 29.6



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.35 min Scan# 2562
 Delta R.T. -0.01 min
 Lab File: BN010506.D
 Acq: 15 Apr 2020 13:59

Tgt Ion:264 Resp: 24478
 Ion Ratio Lower Upper
 264 100
 260 25.4 19.8 29.8
 265 50.9 42.3 63.5

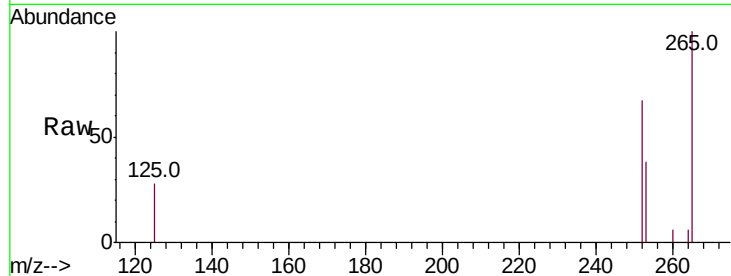




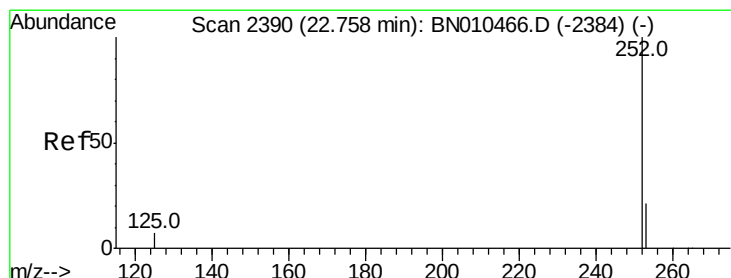
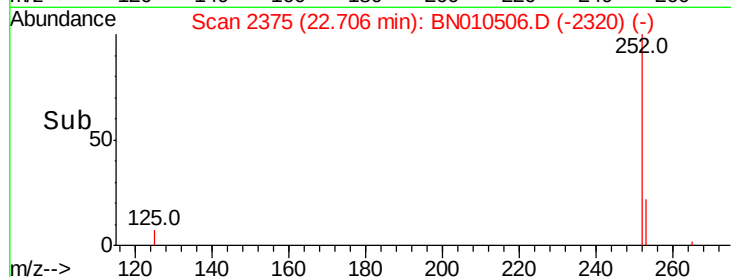
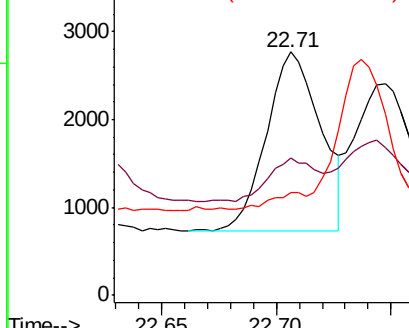
#35
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.71 min Scan# 2375
Delta R.T. -0.01 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

Instrument :
BNA_N
ClientSampleId :
MW-4IRE

Tot Ion:252 Resp: 3346
Ion Ratio Lower Upper
252 100
253 56.3 20.2 30.4#
125 42.0 9.2 13.8#

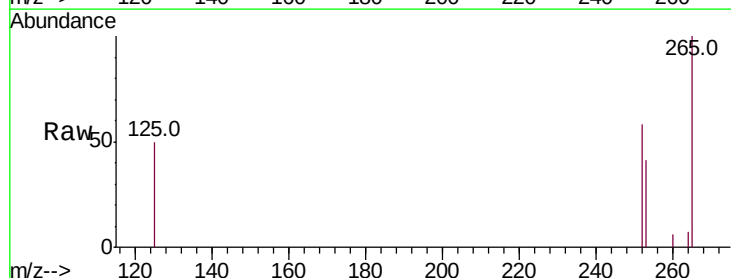


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

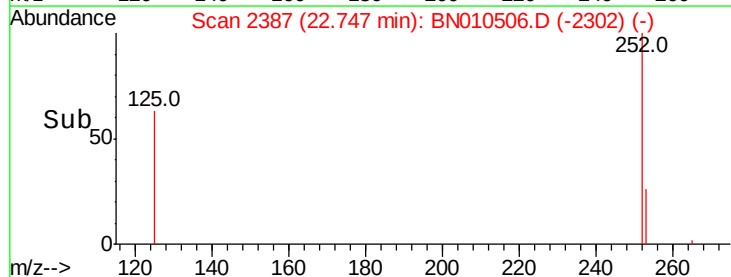
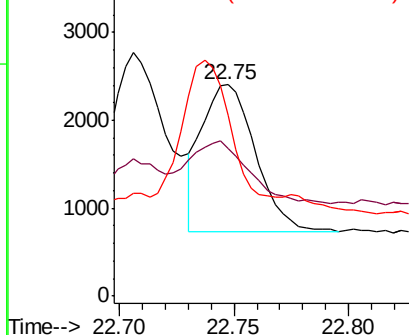


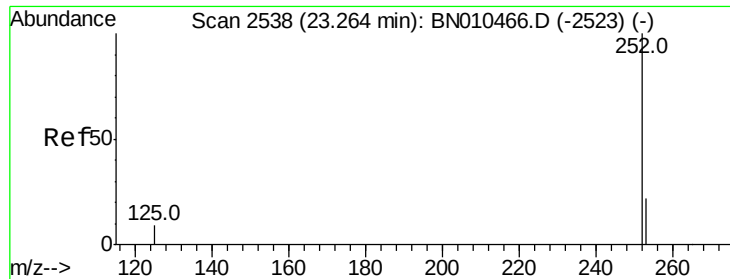
#36
Benzo(k)fluoranthene
Concen: 0.034 ng
RT: 22.75 min Scan# 2387
Delta R.T. -0.01 min
Lab File: BN010506.D
Acq: 15 Apr 2020 13:59

Tgt Ion:252 Resp: 2722
Ion Ratio Lower Upper
252 100
253 69.9 20.1 30.1#
125 85.7 9.6 14.4#



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





#37

Benzo(a)pyrene

Concen: 0.035 ng

RT: 23.25 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampled :

MW-4IRE

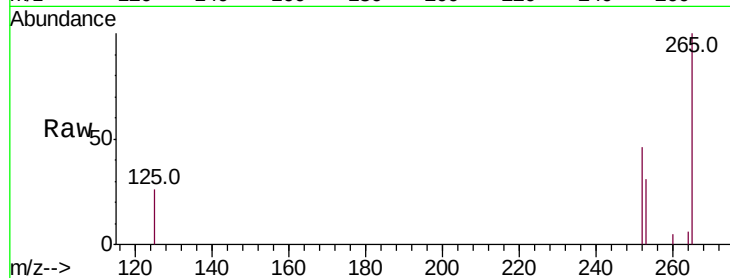
Tot Ion:252 Resp: 2527

Ion Ratio Lower Upper

252 100

253 68.5 21.8 32.8#

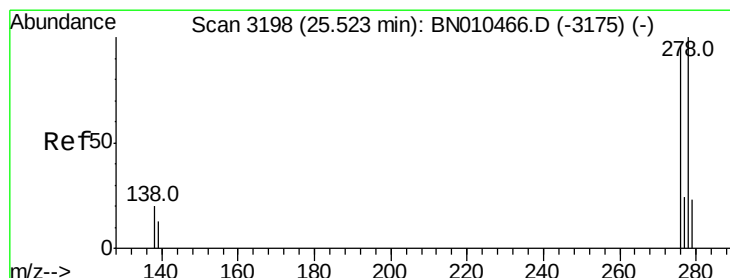
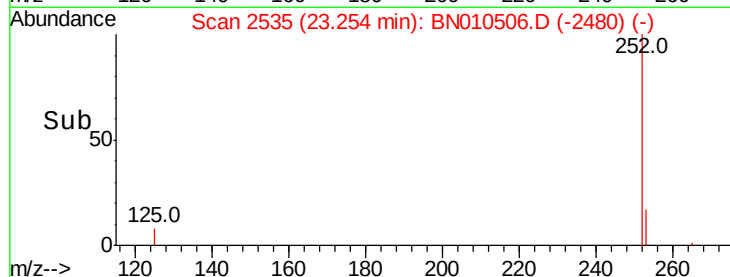
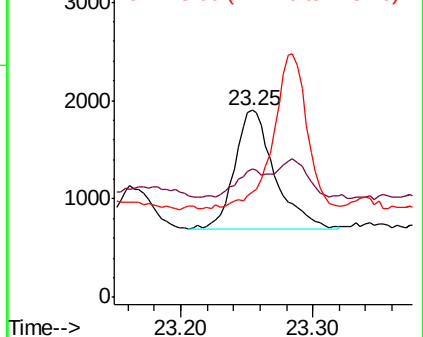
125 56.5 11.0 16.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.025 ng

RT: 25.51 min Scan# 3194

Delta R.T. -0.01 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

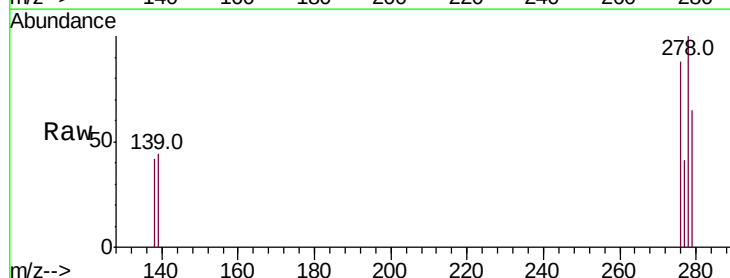
Tgt Ion:278 Resp: 1627

Ion Ratio Lower Upper

278 100

139 43.7 12.3 18.5#

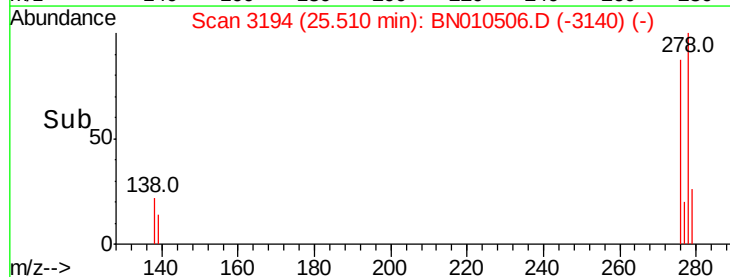
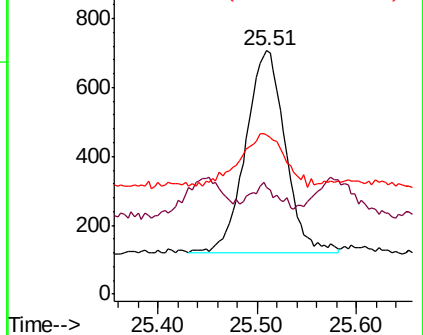
279 65.2 21.9 32.9#

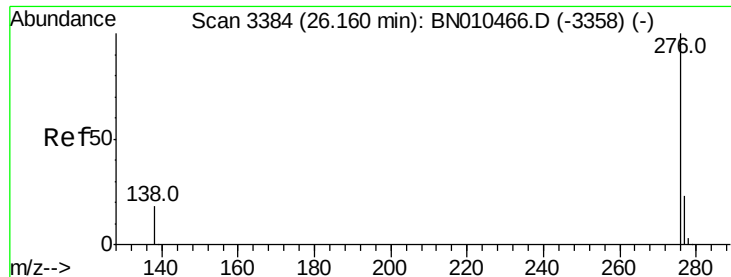


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.031 ng

RT: 26.14 min Scan# 3379

Delta R.T. -0.02 min

Lab File: BN010506.D

Acq: 15 Apr 2020 13:59

Instrument :

BNA_N

ClientSampleId :

MW-4IRE

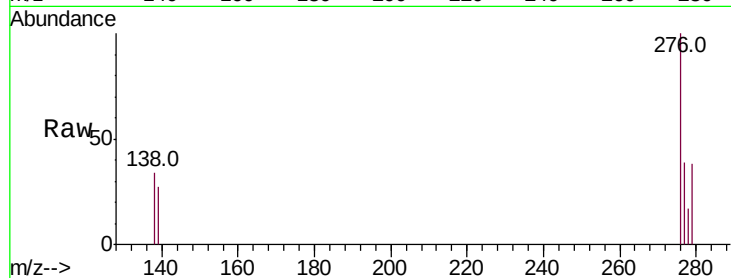
Tot Ion:276 Resp: 2015

Ion Ratio Lower Upper

276 100

277 39.1 20.2 30.2#

138 33.9 15.4 23.2#



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

