

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010488.D
 Acq On : 14 Apr 2020 21:29
 Operator : CG/JU
 Sample : L2178-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Apr 14 22:42:17 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	4883	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	19527	0.40	ng	0.00
13) Acenaphthene-d10	14.22	164	12587	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	28922	0.40	ng	0.00
27) Chrysene-d12	21.17	240	26374	0.40	ng	-0.01
34) Perylene-d12	23.35	264	23338	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	2405	0.22	ng	0.00
5) Phenol-d6	6.79	99	1780	0.13	ng	0.00
8) Nitrobenzene-d5	8.73	82	10947	0.80	ng	-0.01
11) 2-Methylnaphthalene-d10	11.96	152	13263	0.41	ng	0.00
14) 2,4,6-Tribromophenol	15.72	330	3281	0.55	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	38532	0.84	ng	0.00
25) Fluoranthene-d10	19.01	212	37320	0.43	ng	0.00
29) Terphenyl-d14	19.62	244	54814	0.91	ng	0.00

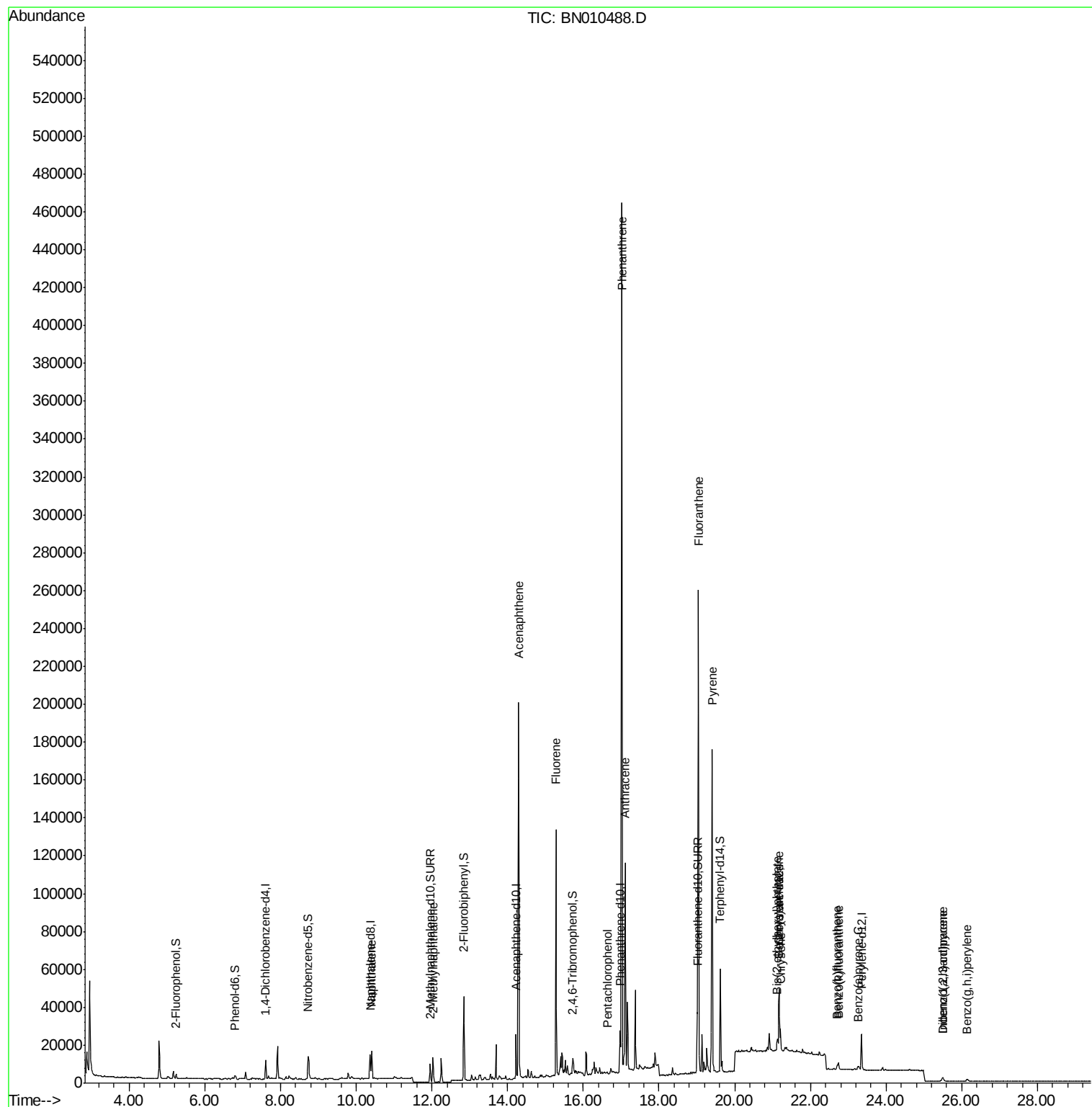
Target Compounds				Qvalue		
9) Naphthalene	10.41	128	20101	0.414	ng	98
12) 2-Methylnaphthalene	12.03	142	8917	0.256	ng	99
17) Acenaphthene	14.29	154	104669	2.996	ng	99
18) Fluorene	15.28	166	83690	1.829	ng	99
22) Pentachlorophenol	16.63	266	149	0.021	ng	# 80
23) Phenanthrene	17.02	178	472229	6.046	ng	100
24) Anthracene	17.10	178	106667	1.494	ng	# 95
26) Fluoranthene	19.04	202	229801	2.364	ng	100
28) Pyrene	19.41	202	158605	1.787	ng	# 92
30) Benzo(a)anthracene	21.16	228	14958	0.174	ng	# 86
31) Chrysene	21.21	228	10933	0.128	ng	# 77
32) Bis(2-ethylhexyl)phthalate	21.12	149	3783	0.086	ng	98
33) Indeno(1,2,3-cd)pyrene	25.49	276	2160	0.029	ng	# 90
35) Benzo(b)fluoranthene	22.70	252	3383	0.044	ng	# 35
36) Benzo(k)fluoranthene	22.75	252	2730	0.035	ng	# 1
37) Benzo(a)pyrene	23.26	252	2599	0.038	ng	# 17
38) Dibenzo(a,h)anthracene	25.50	278	1634	0.026	ng	# 33
39) Benzo(a,h,i)perylene	26.14	276	2137	0.034	ng	# 71

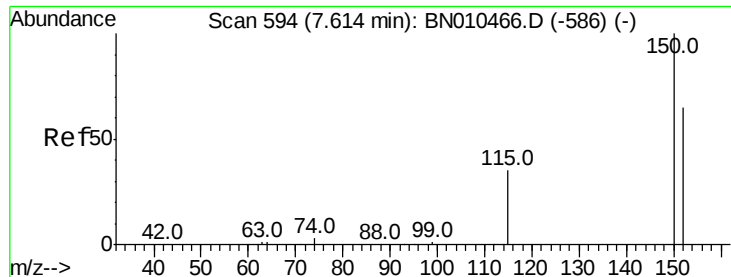
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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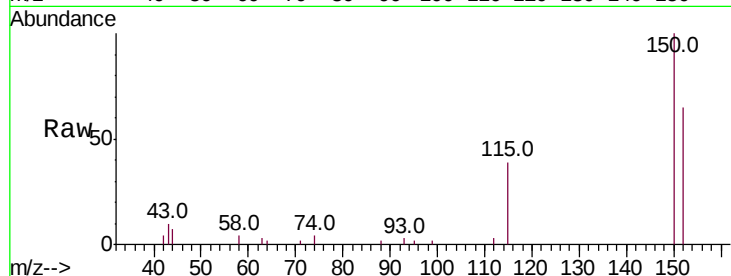


#1

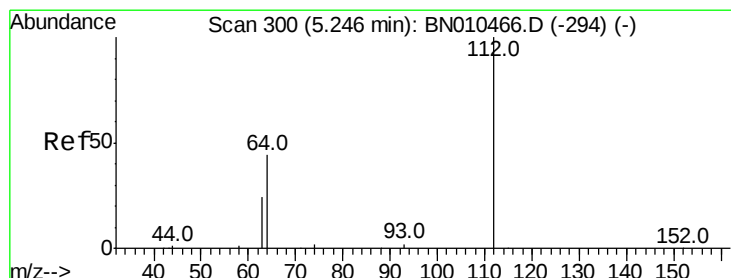
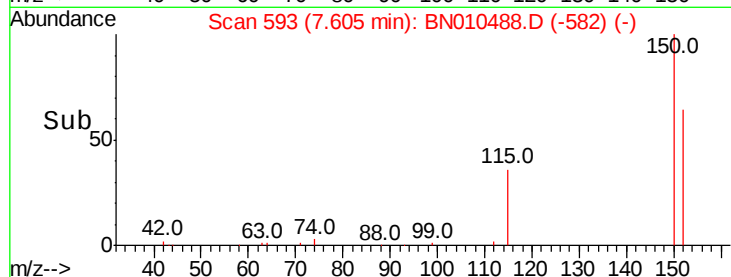
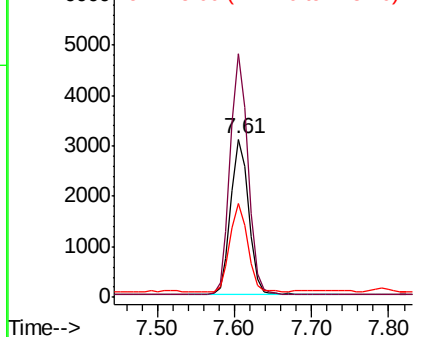
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.61 min Scan# 593
 Delta R.T. -0.01 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 4883
 Ion Ratio Lower Upper
 152 100
 150 154.1 121.8 182.6
 115 59.6 45.5 68.3



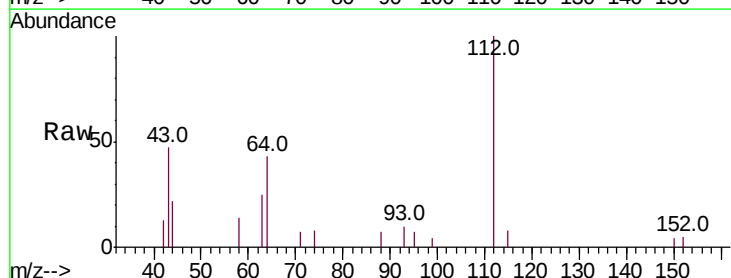
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



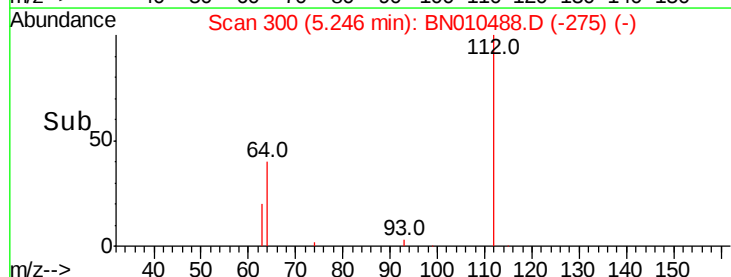
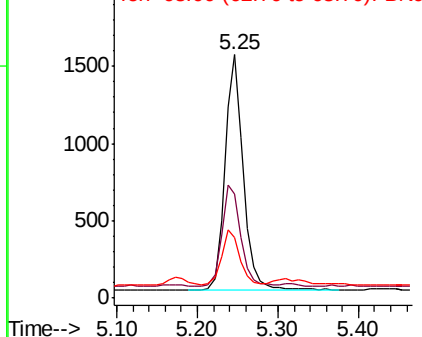
#4

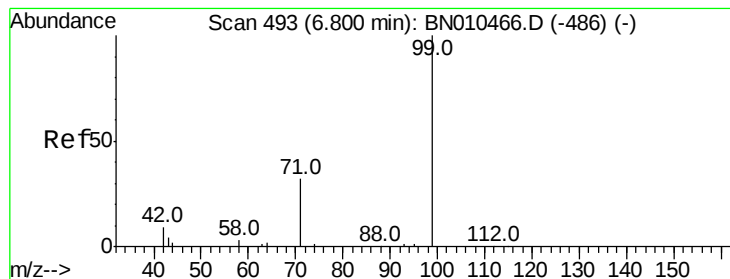
2-Fluorophenol
 Concen: 0.225 ng
 RT: 5.25 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

Tgt Ion:112 Resp: 2405
 Ion Ratio Lower Upper
 112 100
 64 44.2 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: 0.127 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampled :

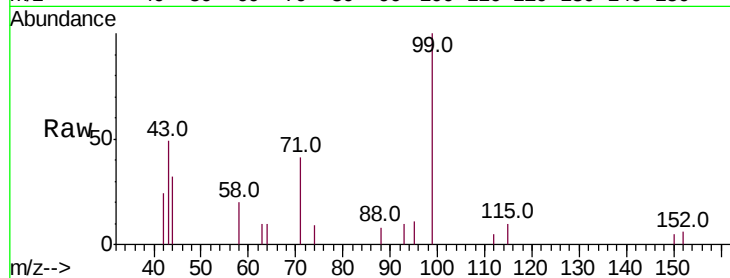
Tot Ion: 99 Resp: 1780

Ion Ratio Lower Upper

99 100

42 16.5 9.8 14.6#

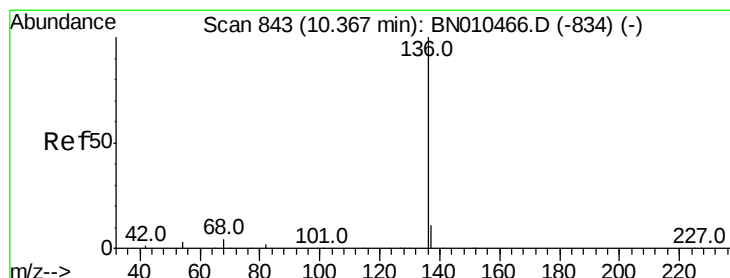
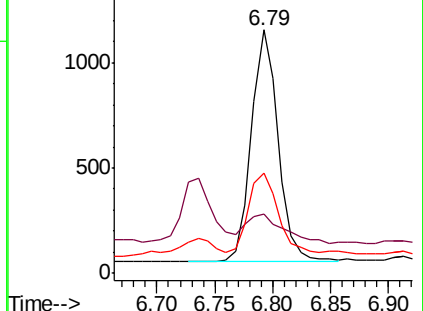
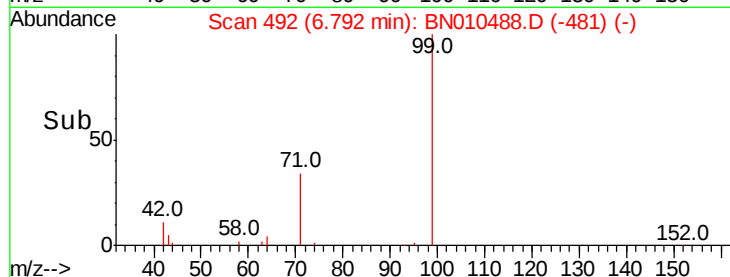
71 36.5 27.8 41.8



Abundance Ion 99.00 (98.70 to 99.70): BN010466.D (-486) (-)

Ion 42.00 (41.70 to 42.70): BN010466.D (-486) (-)

Ion 71.00 (70.70 to 71.70): BN010466.D (-486) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.00 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Tgt Ion: 136 Resp: 19527

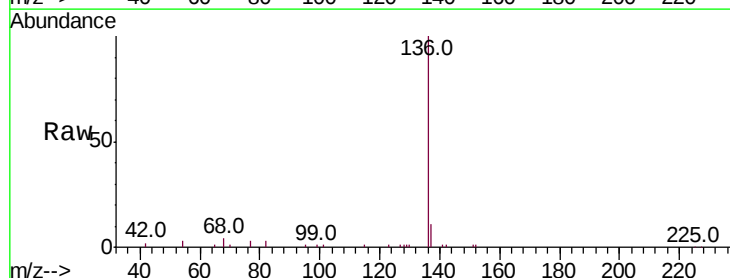
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 2.9 2.6 4.0

68 3.9 3.4 5.2

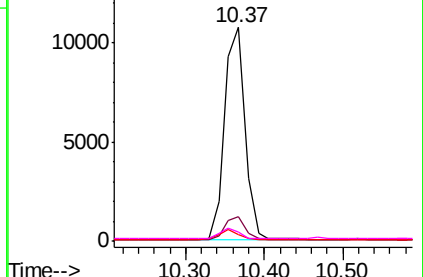
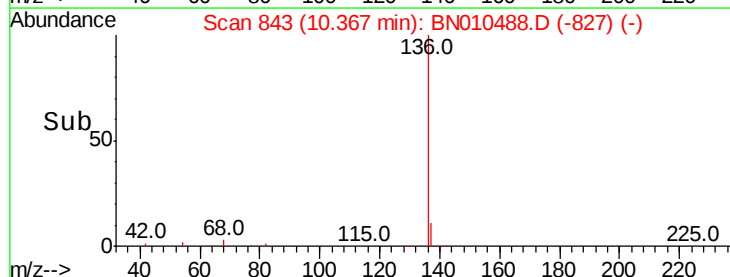


Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)

Ion 137.00 (136.70 to 137.70): BN010466.D (-834) (-)

Ion 54.00 (53.70 to 54.70): BN010466.D (-834) (-)

Ion 68.00 (67.70 to 68.70): BN010466.D (-834) (-)





#8

Nitrobenzene-d5

Concen: 0.802 ng

RT: 8.73 min Scan# 714

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

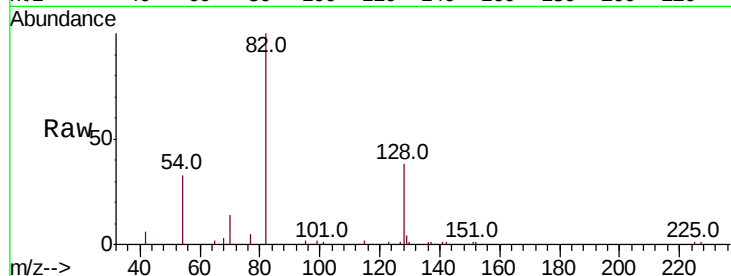
Tot Ion: 82 Resp: 10947

Ion Ratio Lower Upper

82 100

128 37.9 41.3 61.9#

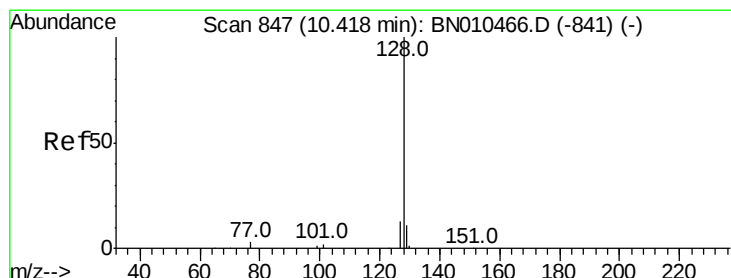
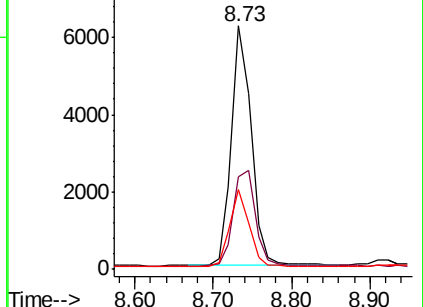
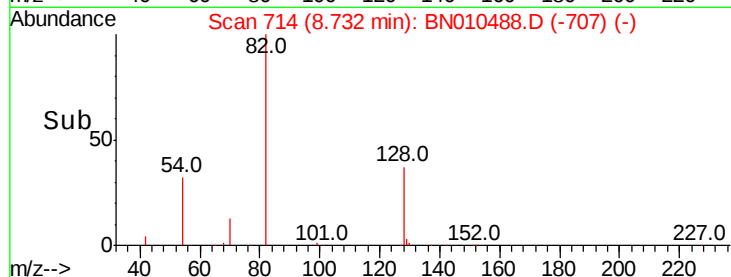
54 32.8 23.4 35.0



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: BN010488.D

Acq: 14 Apr 2020 21:29

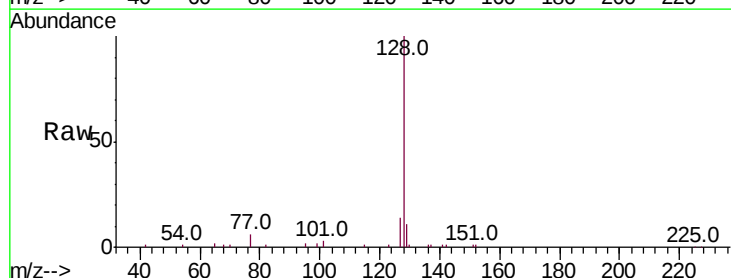
Tgt Ion: 128 Resp: 20101

Ion Ratio Lower Upper

128 100

129 11.4 9.3 13.9

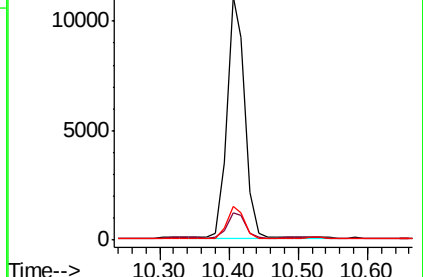
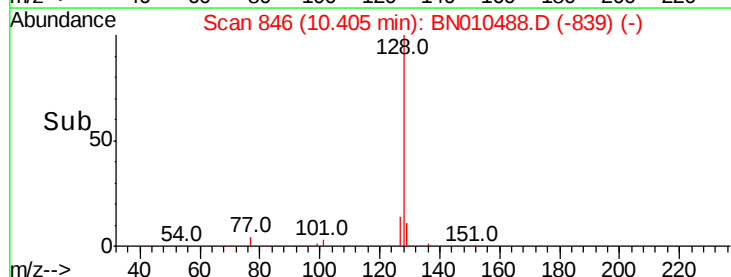
127 14.1 10.5 15.7

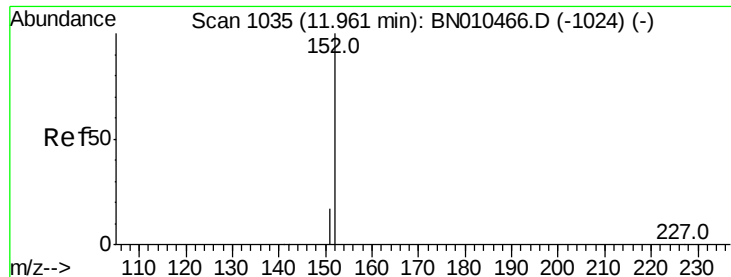


Abundance Ion 128.00 (127.70 to 128.70): BN010466.D (-841) (-)

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

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

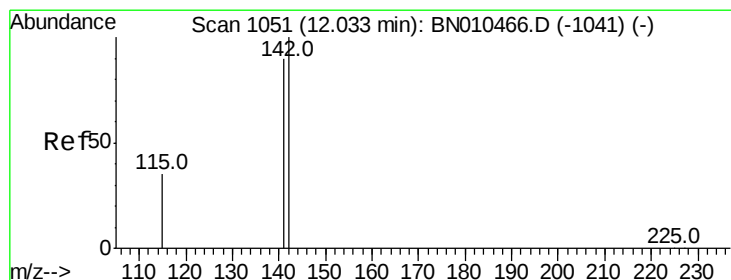
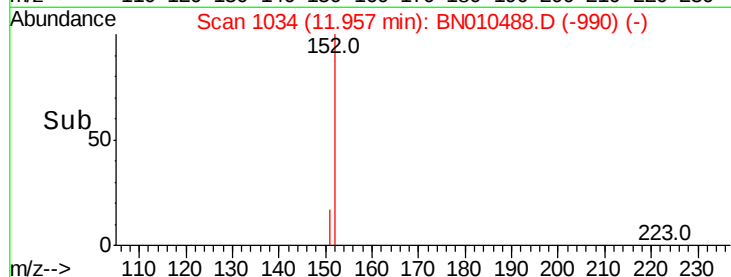
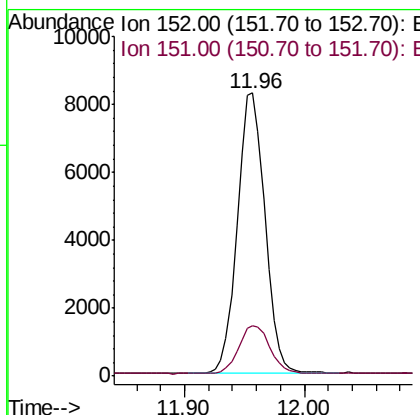
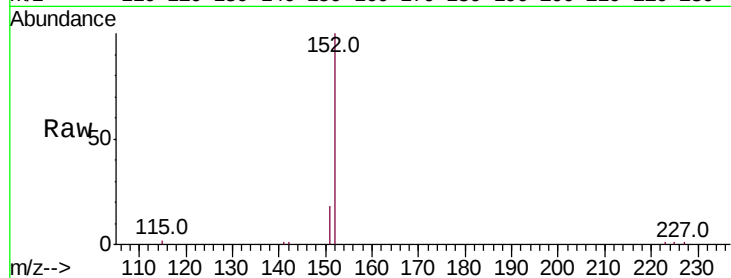




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.96 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

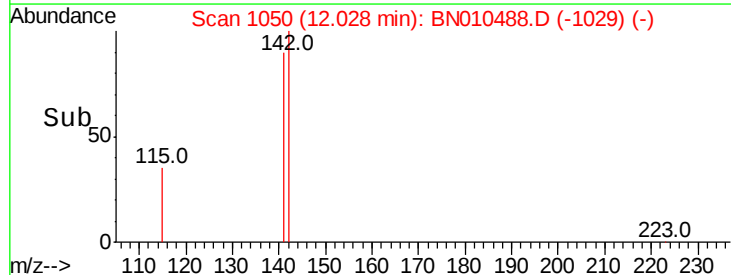
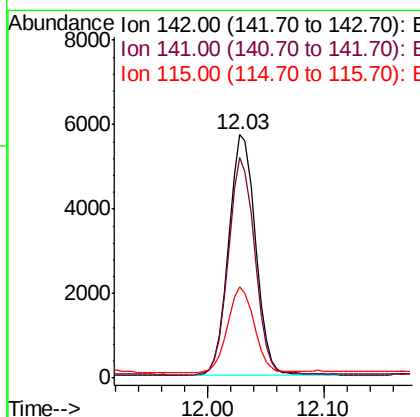
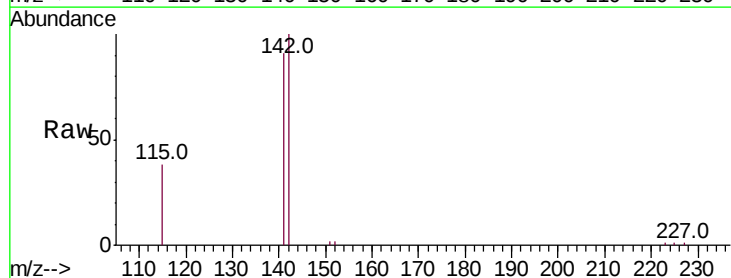
Instrument :
BNA_N
ClientSampleId :

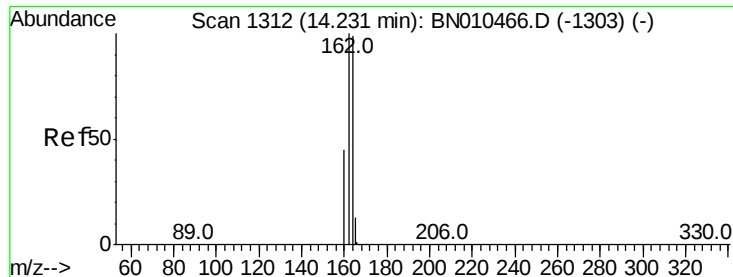
Tot Ion:152 Resp: 13263
Ion Ratio Lower Upper
152 100
151 19.3 15.3 22.9



#12
2-Methylnaphthalene
Concen: 0.256 ng
RT: 12.03 min Scan# 1050
Delta R.T. -0.00 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

Tgt Ion:142 Resp: 8917
Ion Ratio Lower Upper
142 100
141 90.6 71.9 107.9
115 37.6 28.8 43.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.22 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

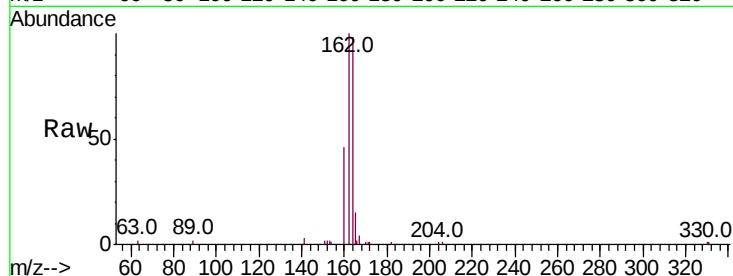
Tot Ion:164 Resp: 12587

Ion Ratio Lower Upper

164 100

162 102.5 80.6 121.0

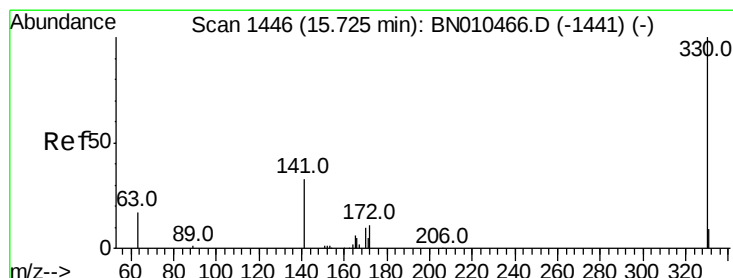
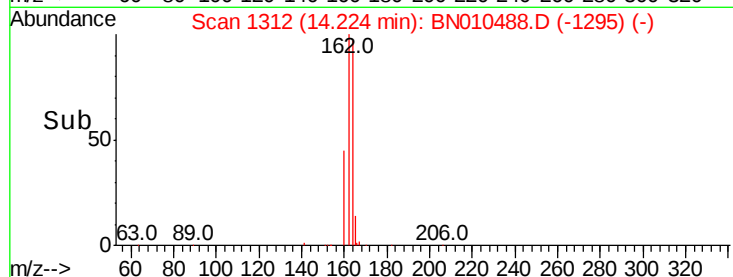
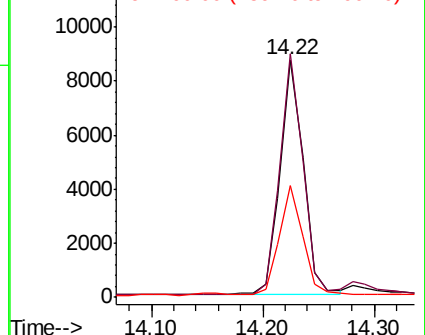
160 46.8 36.5 54.7



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: 0.553 ng

RT: 15.72 min Scan# 1446

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

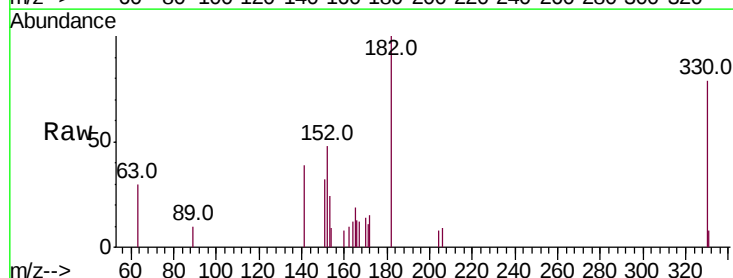
Tgt Ion:330 Resp: 3281

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

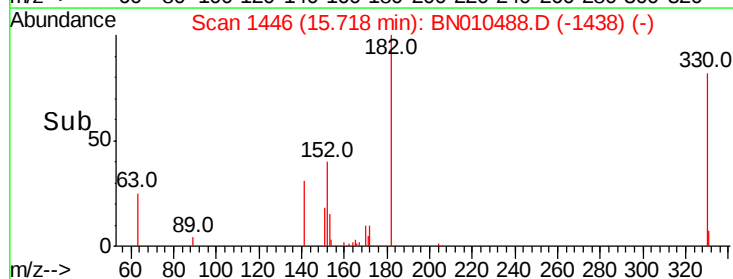
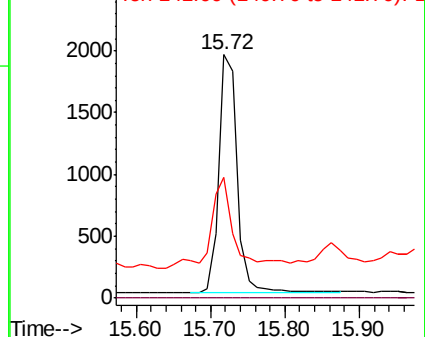
141 45.0 28.1 42.1#

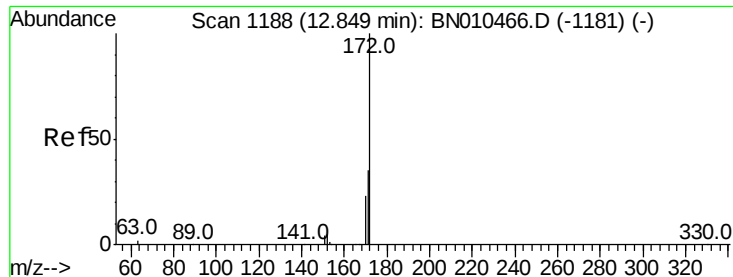


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

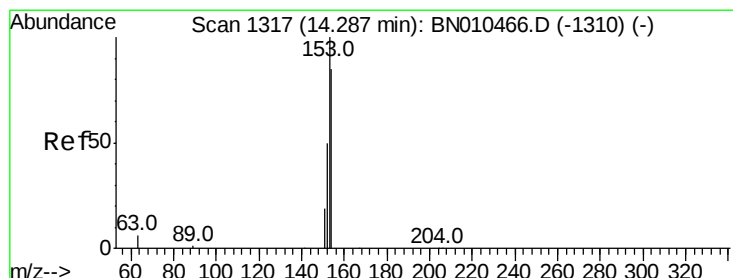
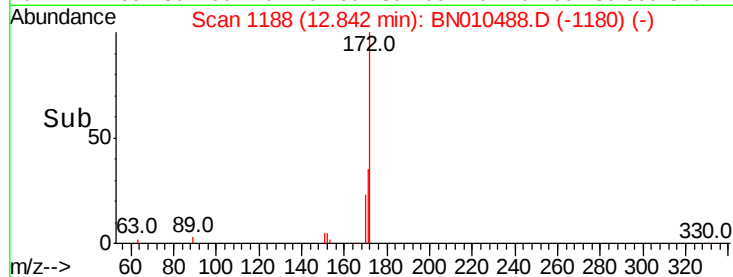
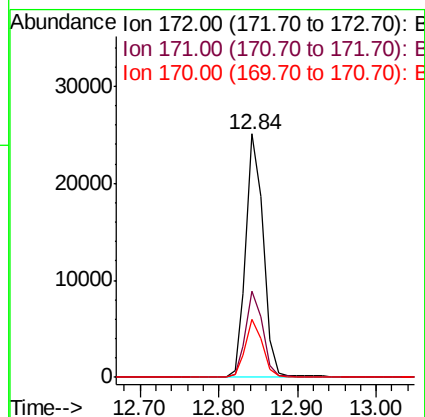
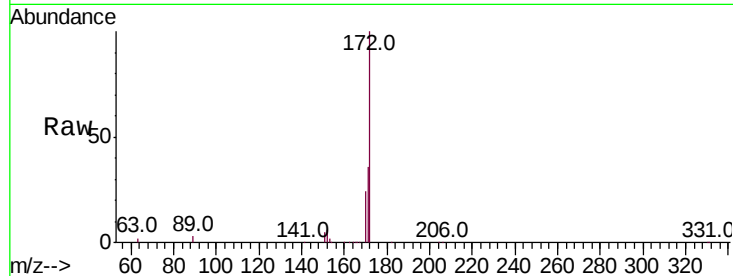




#15
2-Fluorobiphenyl
Concen: 0.841 ng
RT: 12.84 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

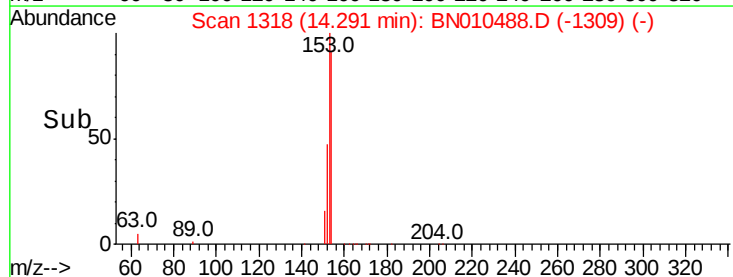
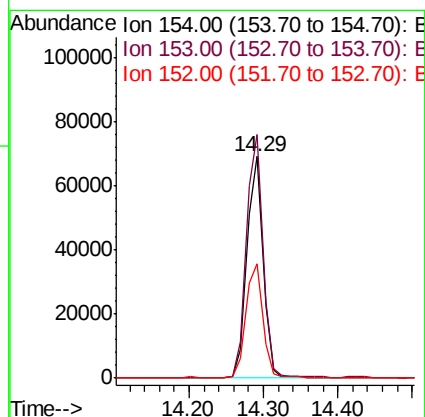
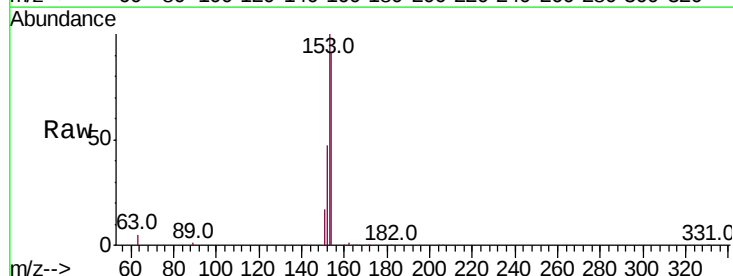
Instrument :
BNA_N
ClientSampleId :

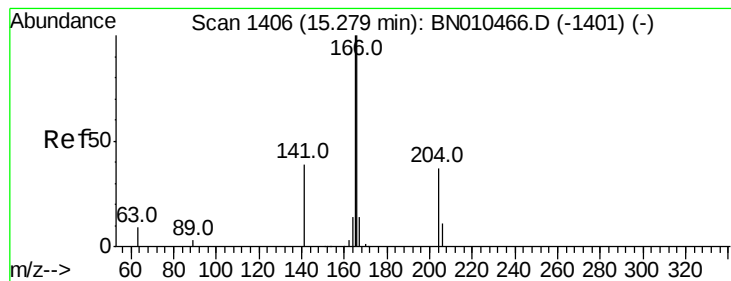
Tot Ion:172 Resp: 38532
Ion Ratio Lower Upper
172 100
171 35.5 28.2 42.2
170 23.6 18.4 27.6



#17
Acenaphthene
Concen: 2.996 ng
RT: 14.29 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

Tgt Ion:154 Resp: 104669
Ion Ratio Lower Upper
154 100
153 112.7 91.0 136.4
152 54.2 44.6 67.0





#18

Fluorene

Concen: 1.829 ng

RT: 15.28 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

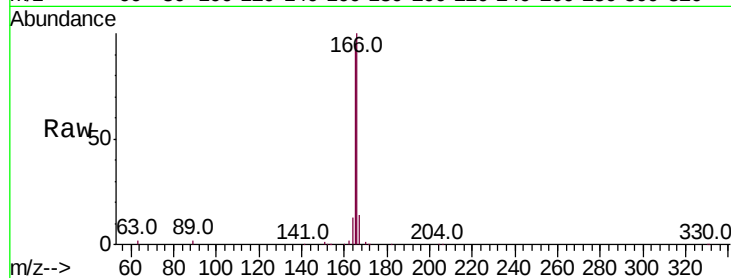
Tot Ion:166 Resp: 83690

Ion Ratio Lower Upper

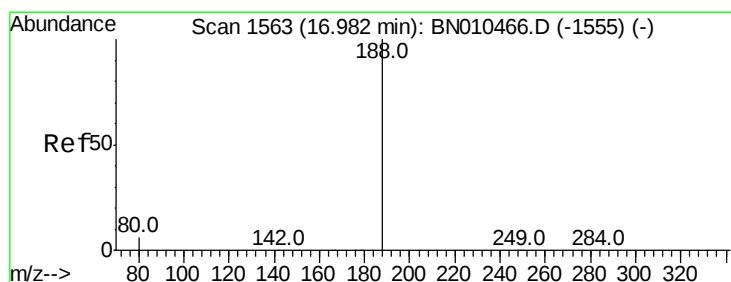
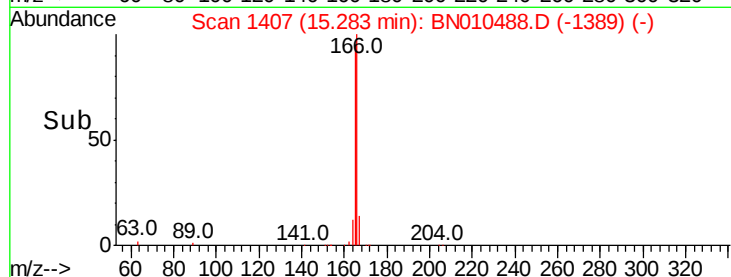
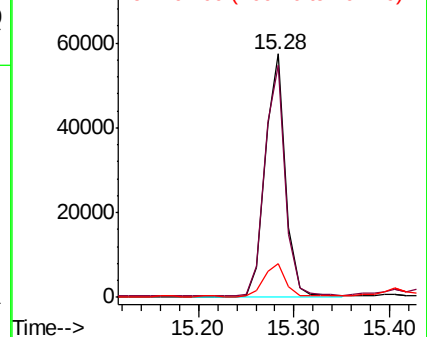
166 100

165 97.1 78.4 117.6

167 14.6 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# 1563

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

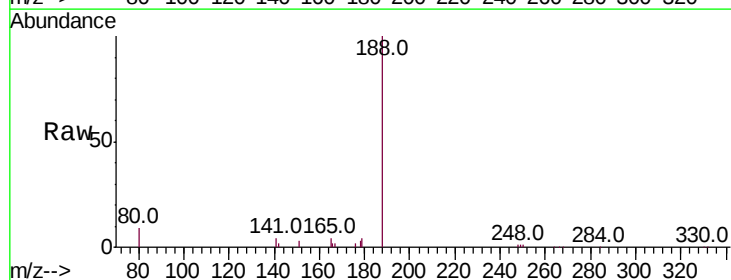
Tgt Ion:188 Resp: 28922

Ion Ratio Lower Upper

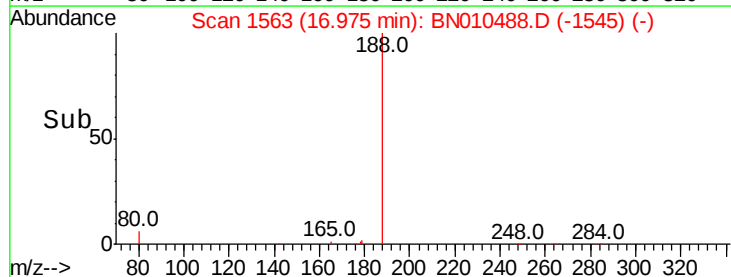
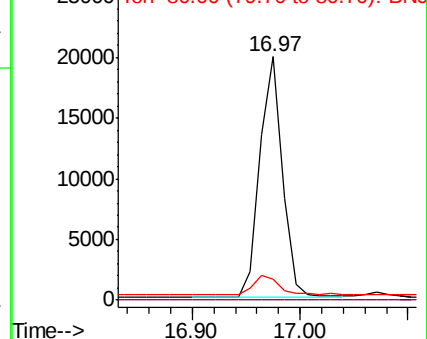
188 100

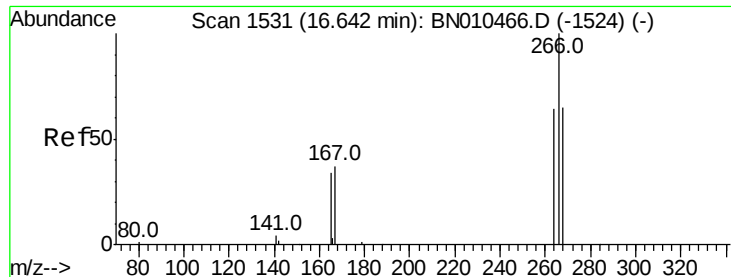
94 0.0 0.0 0.0

80 8.7 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





#22

Pentachlorophenol

Concen: 0.021 ng

RT: 16.63 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

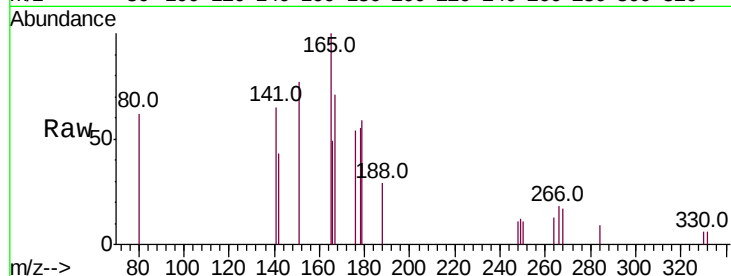
Tot Ion:266 Resp: 149

Ion Ratio Lower Upper

266 100

264 71.5 51.8 77.6

268 92.0 53.7 80.5#

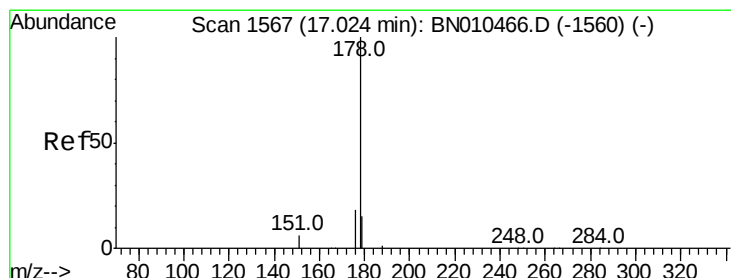
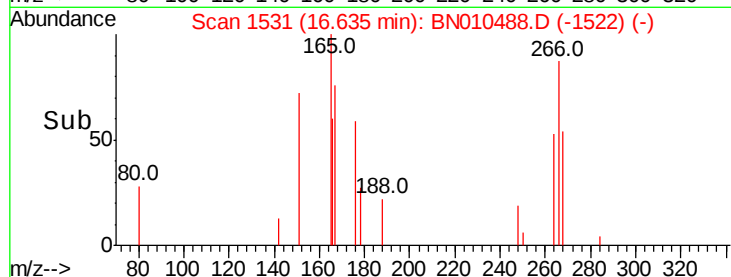
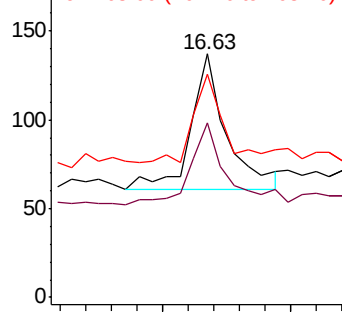


Abundance

Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 6.046 ng

RT: 17.02 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

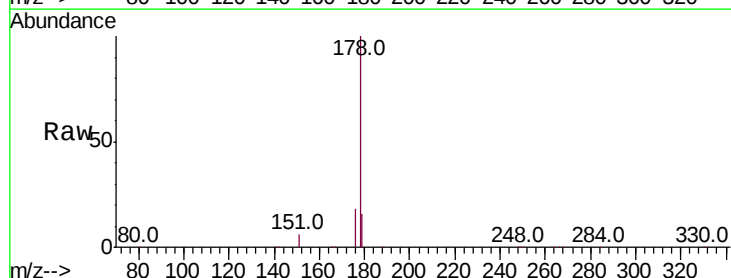
Tgt Ion:178 Resp: 472229

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

179 15.6 12.6 18.8

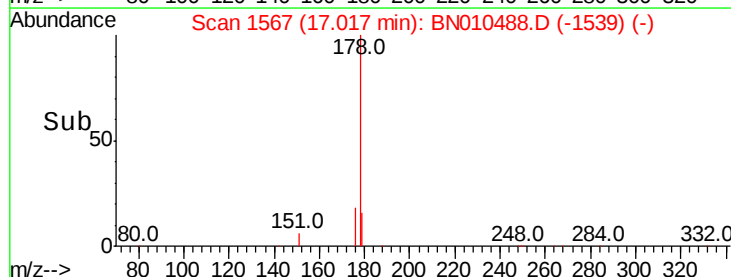
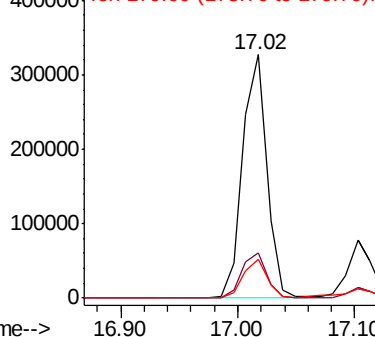


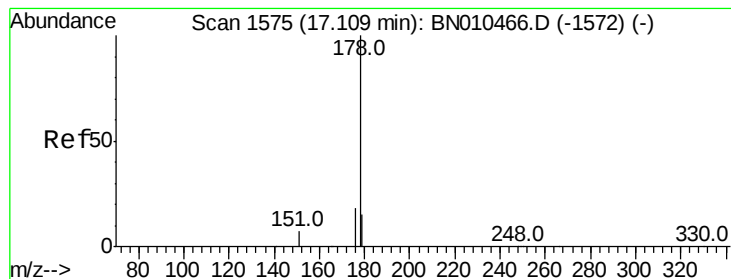
Abundance

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: 1.494 ng

RT: 17.10 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

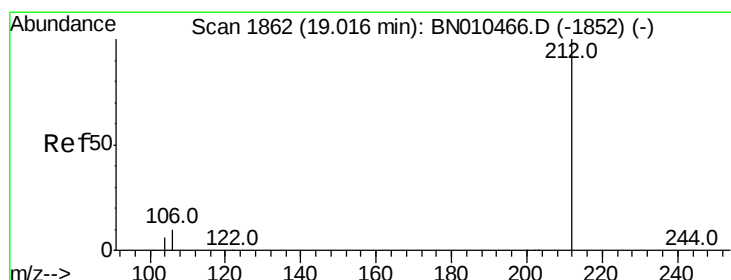
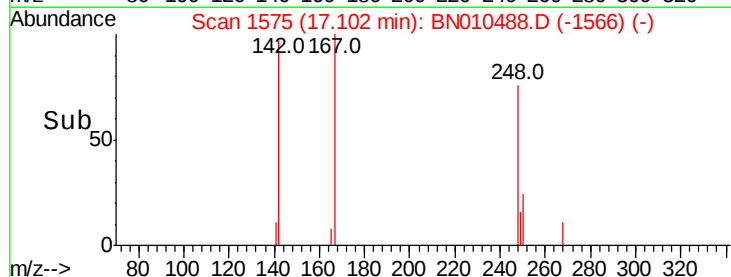
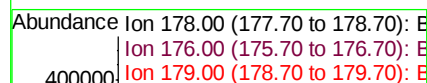
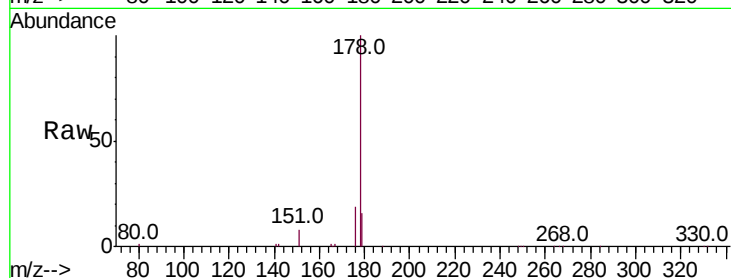
Tot Ion:178 Resp: 106667

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

179 19.3 12.2 18.2#



#25

Fluoranthene-d10

Concen: 0.426 ng

RT: 19.01 min Scan# 1862

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

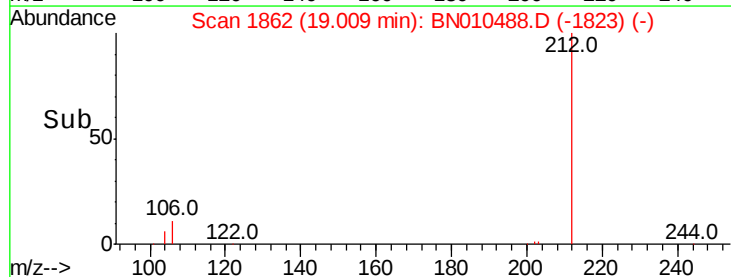
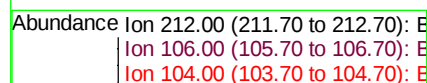
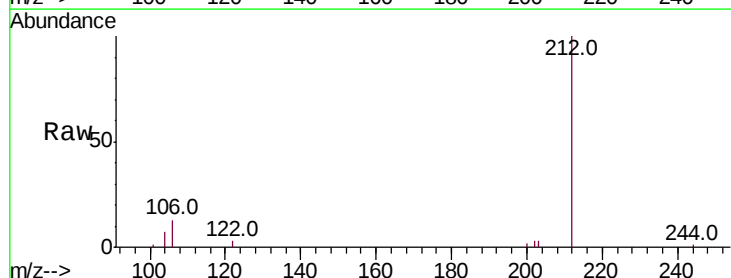
Tgt Ion:212 Resp: 37320

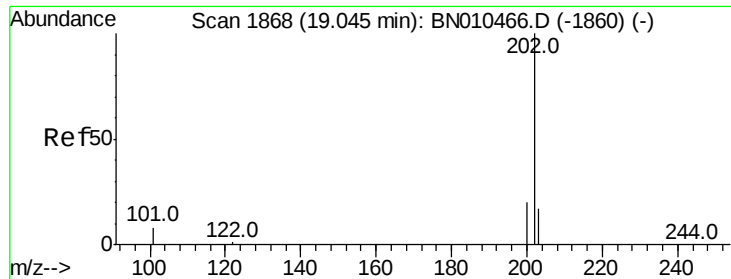
Ion Ratio Lower Upper

212 100

106 10.2 7.8 11.6

104 6.0 4.5 6.7

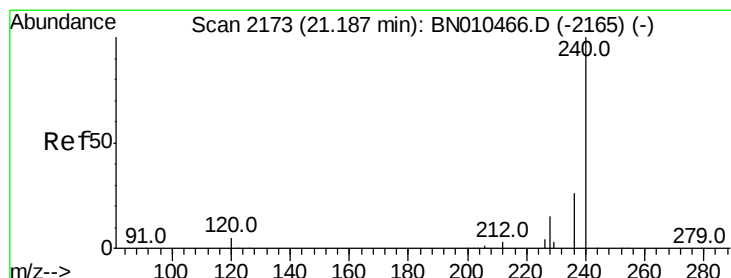
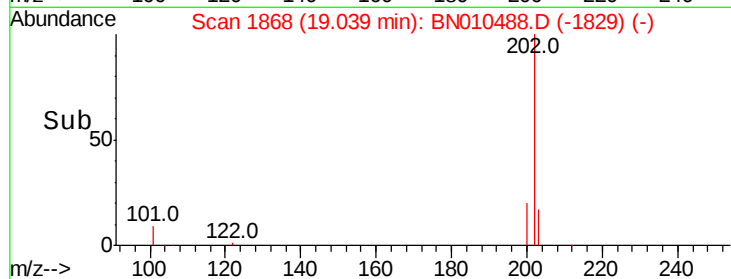
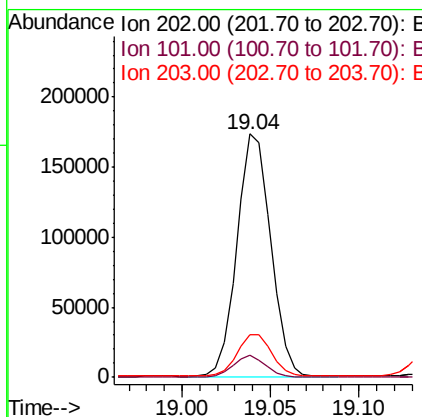
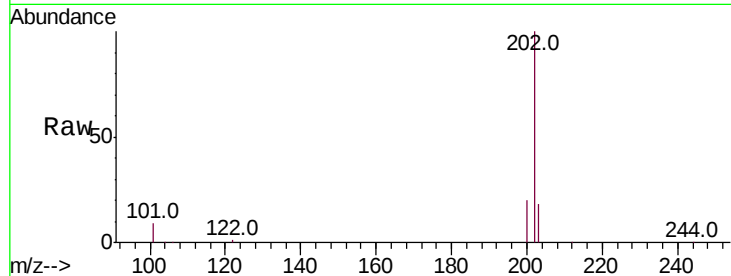




#26
 Fluoranthene
 Concen: 2.364 ng
 RT: 19.04 min Scan# 1868
 Delta R.T. -0.01 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

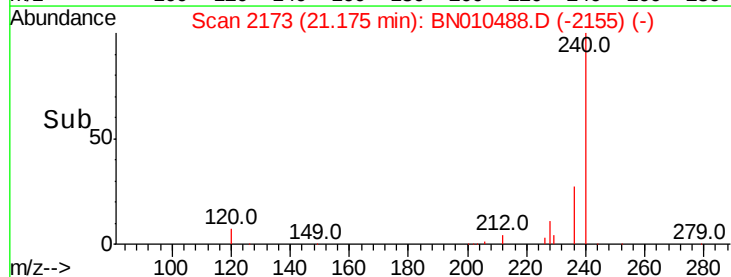
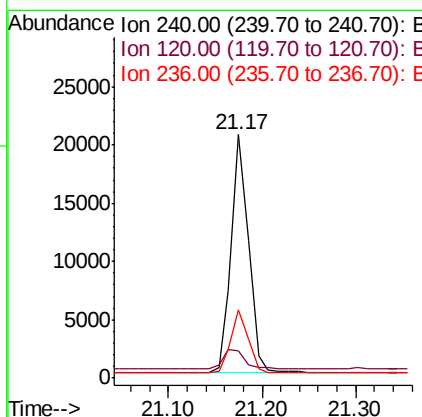
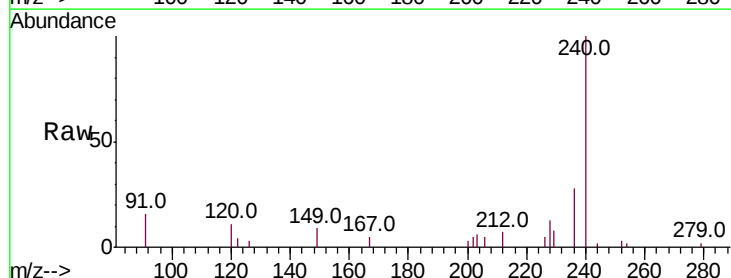
Instrument :
 BNA_N
 ClientSampleId :

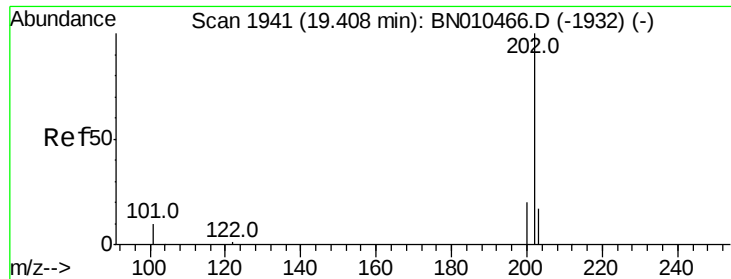
Tot Ion	Ratio	Lower	Upper
202	100		
101	8.5	6.9	10.3
203	17.3	13.9	20.9



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.4	4.8	7.2#
236	28.0	21.4	32.0

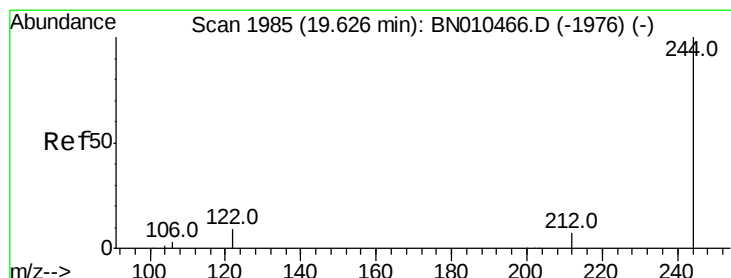
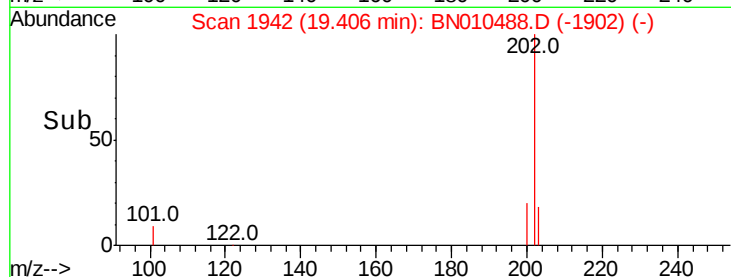
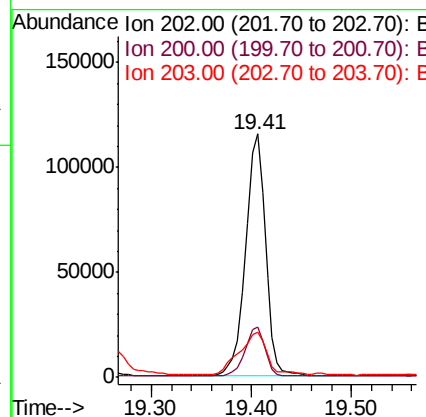
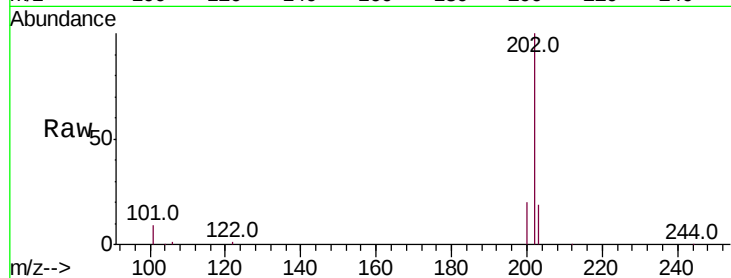




#28
Pvrene
Concen: 1.787 ng
RT: 19.41 min Scan# 1942
Delta R.T. -0.00 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

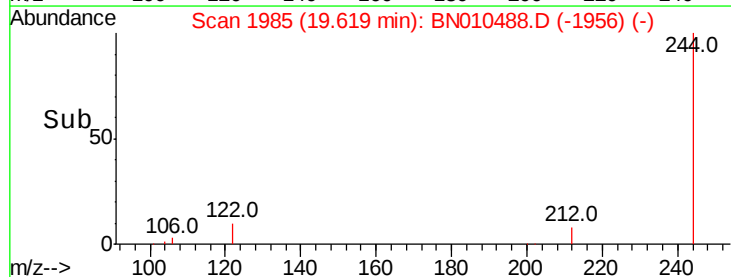
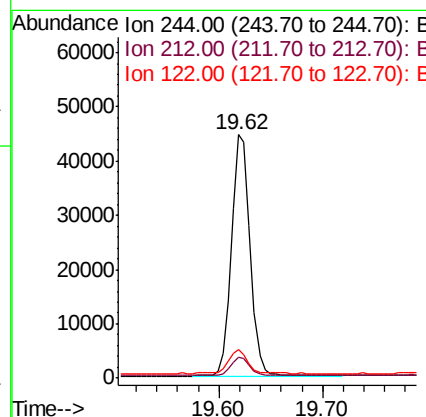
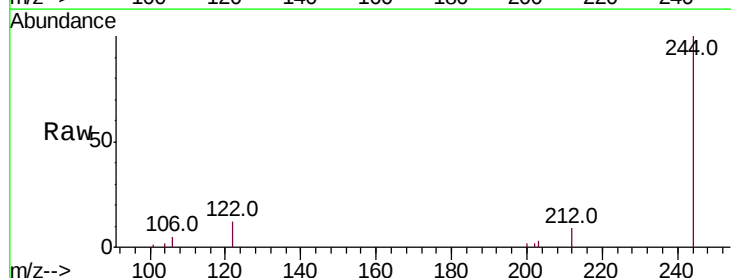
Instrument :
BNA_N
ClientSampleId :

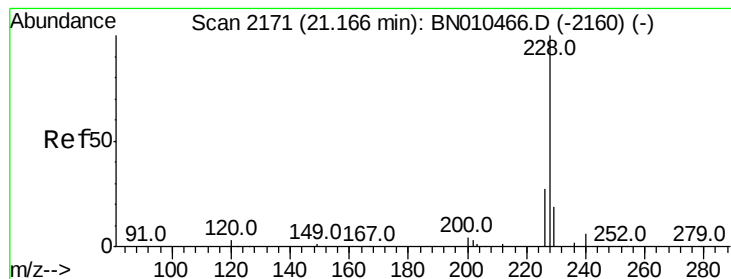
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.3	24.5
203	25.0	14.0	21.0



#29
Terphenyl-d14
Concen: 0.908 ng
RT: 19.62 min Scan# 1985
Delta R.T. -0.01 min
Lab File: BN010488.D
Acq: 14 Apr 2020 21:29

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.2	9.4
122	11.5	7.8	11.8





#30

Benzo(a)anthracene

Concen: 0.174 ng

RT: 21.16 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

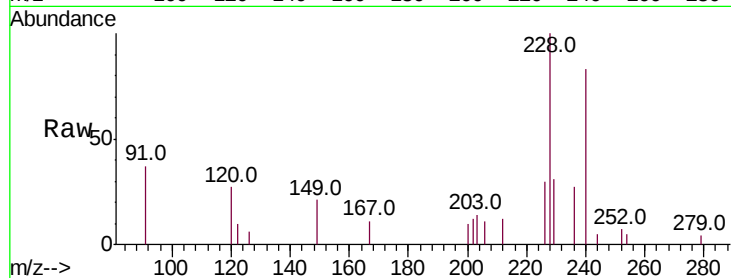
Tot Ion:228 Resp: 14958

Ion Ratio Lower Upper

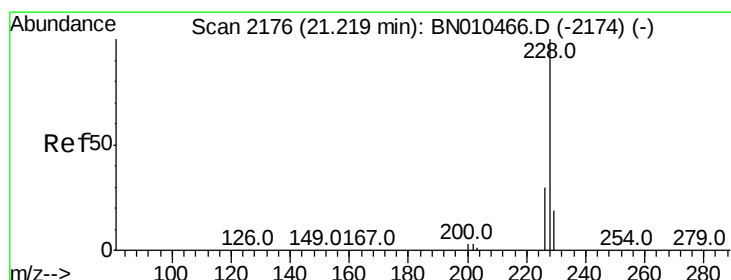
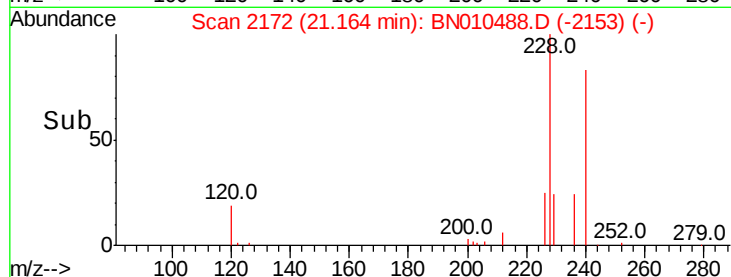
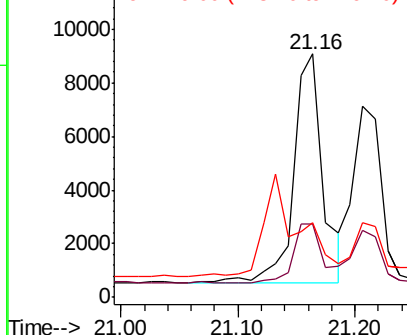
228 100

226 30.4 21.7 32.5

229 30.9 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: 0.128 ng

RT: 21.21 min Scan# 2176

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

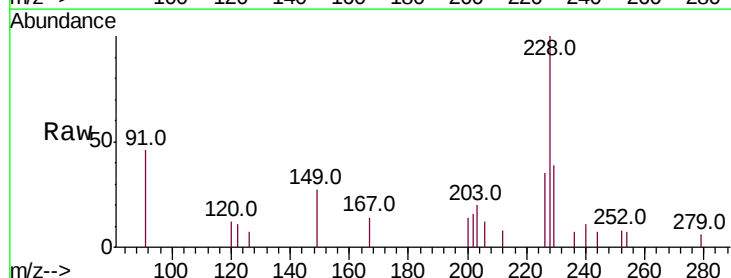
Tgt Ion:228 Resp: 10933

Ion Ratio Lower Upper

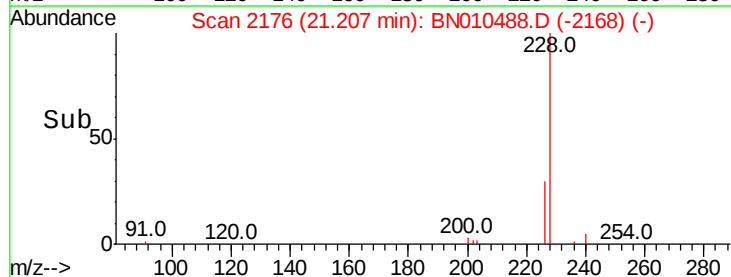
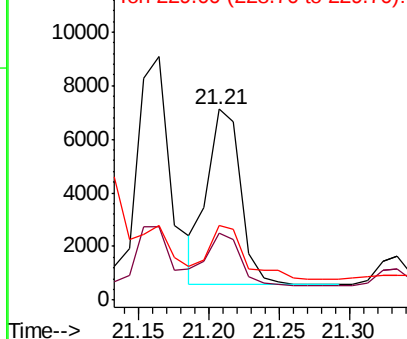
228 100

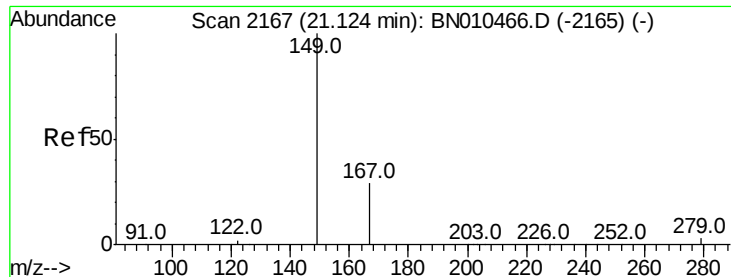
226 35.3 24.0 36.0

229 39.2 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





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.086 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampled :

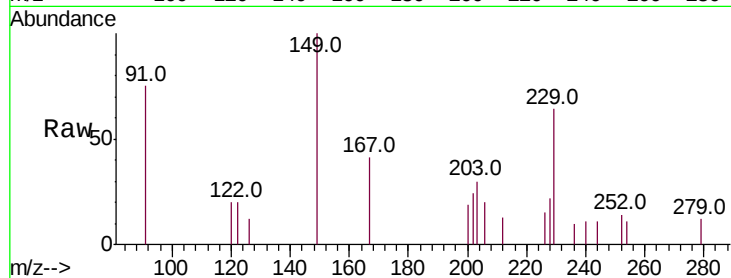
Tot Ion:149 Resp: 3783

Ion Ratio Lower Upper

149 100

167 28.2 23.4 35.0

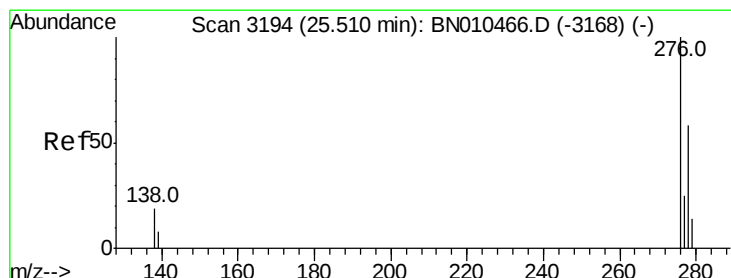
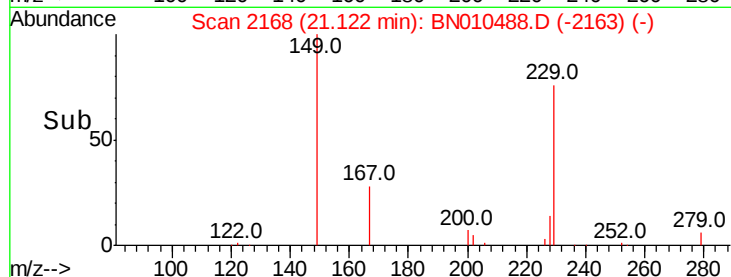
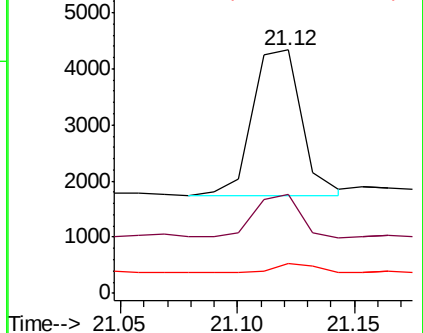
279 5.5 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.029 ng

RT: 25.49 min Scan# 3191

Delta R.T. -0.02 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

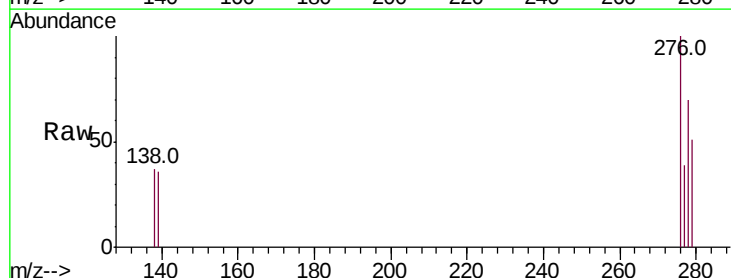
Tgt Ion:276 Resp: 2160

Ion Ratio Lower Upper

276 100

138 28.7 16.4 24.6#

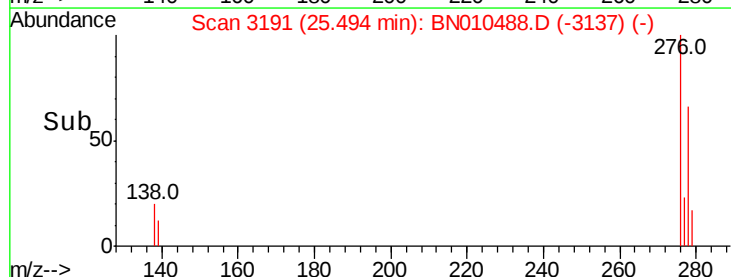
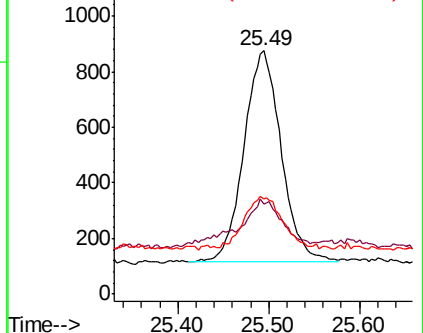
277 26.3 19.8 29.6

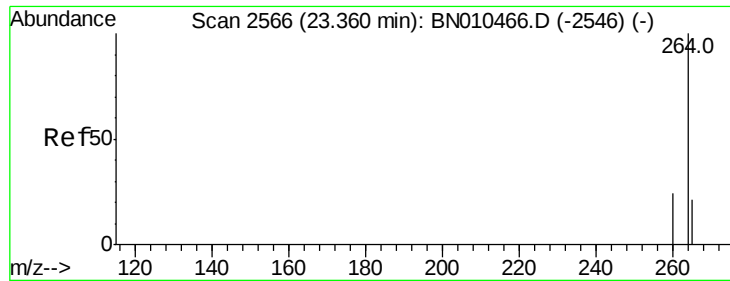


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

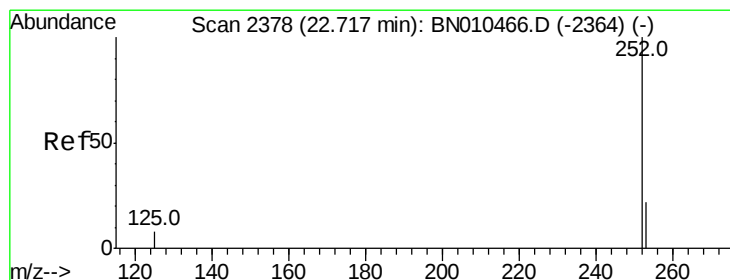
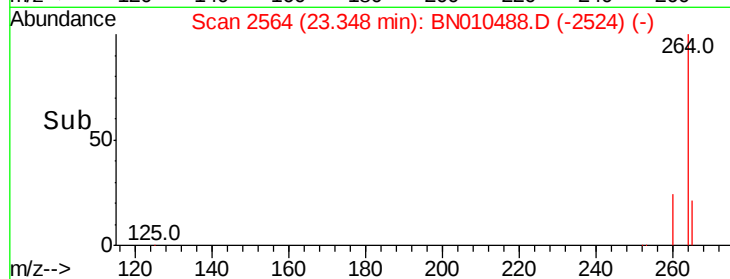
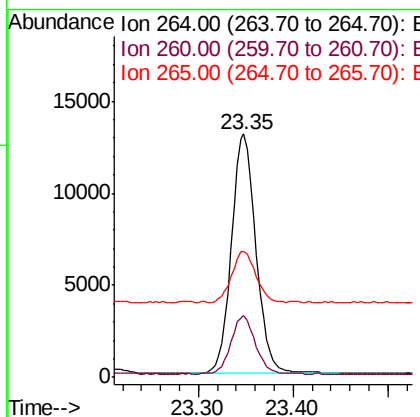
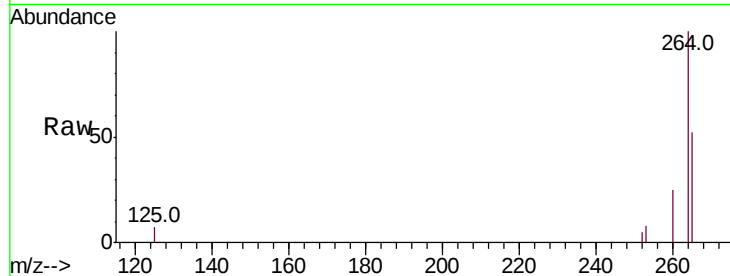




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.35 min Scan# 2564
 Delta R.T. -0.01 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

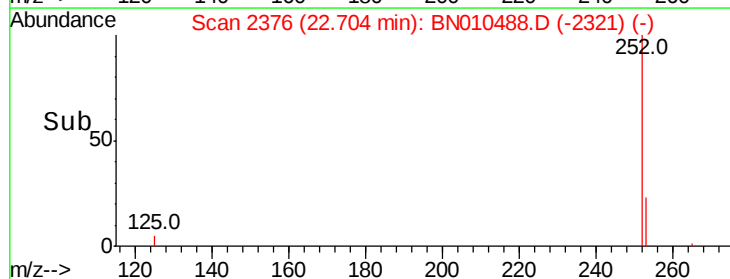
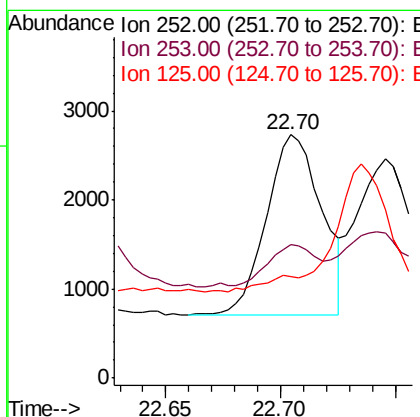
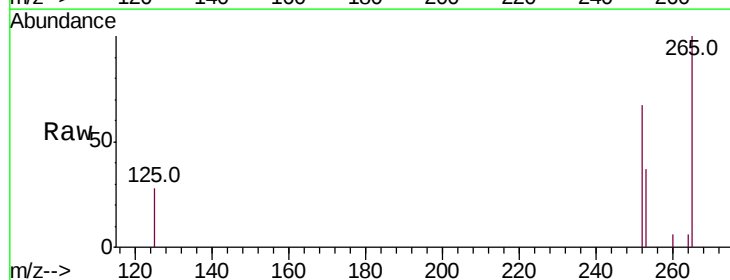
Instrument :
 BNA_N
 ClientSampleId :

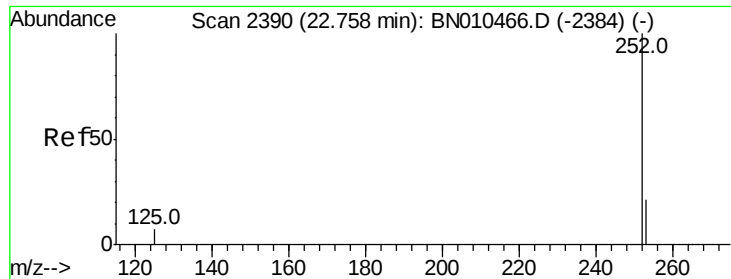
Tot Ion:264 Resp: 23338
 Ion Ratio Lower Upper
 264 100
 260 25.2 19.8 29.8
 265 51.6 42.3 63.5



#35
 Benzo(b)fluoranthene
 Concen: 0.044 ng
 RT: 22.70 min Scan# 2376
 Delta R.T. -0.01 min
 Lab File: BN010488.D
 Acq: 14 Apr 2020 21:29

Tgt Ion:252 Resp: 3383
 Ion Ratio Lower Upper
 252 100
 253 55.1 20.2 30.4#
 125 41.7 9.2 13.8#





#36

Benzo(k)fluoranthene

Concen: 0.035 ng

RT: 22.75 min Scan# 2388

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

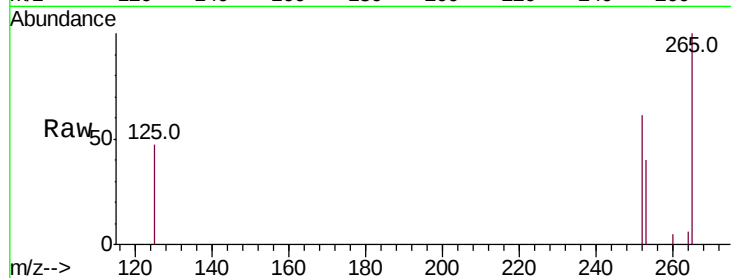
Tot Ion:252 Resp: 2730

Ion Ratio Lower Upper

252 100

253 66.1 20.1 30.1#

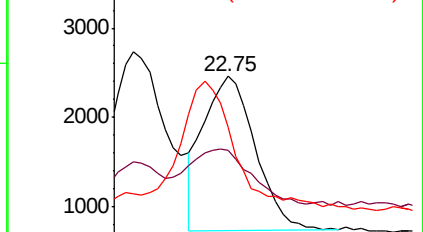
125 76.6 9.6 14.4#



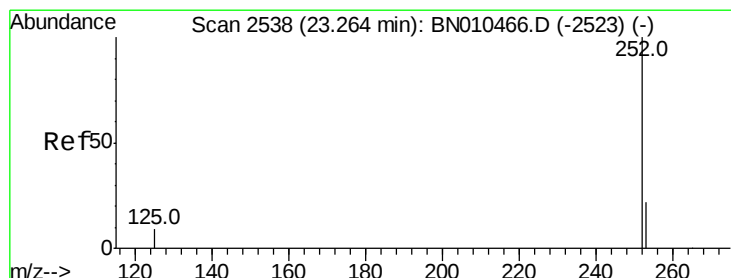
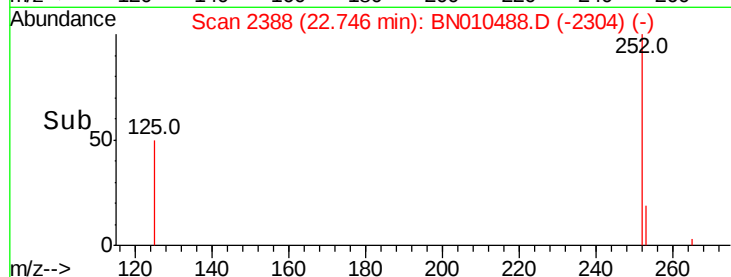
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#37

Benzo(a)pyrene

Concen: 0.038 ng

RT: 23.26 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

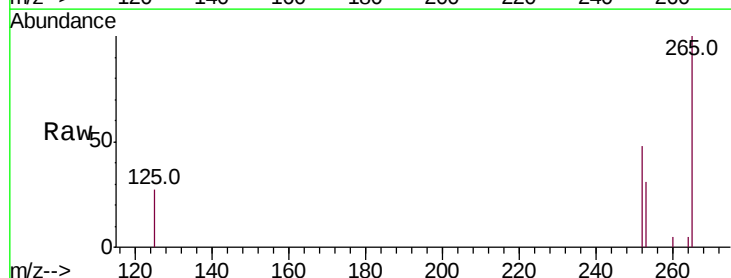
Tgt Ion:252 Resp: 2599

Ion Ratio Lower Upper

252 100

253 65.0 21.8 32.8#

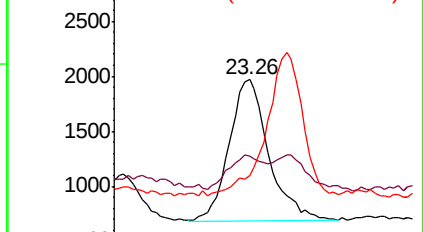
125 55.7 11.0 16.6#



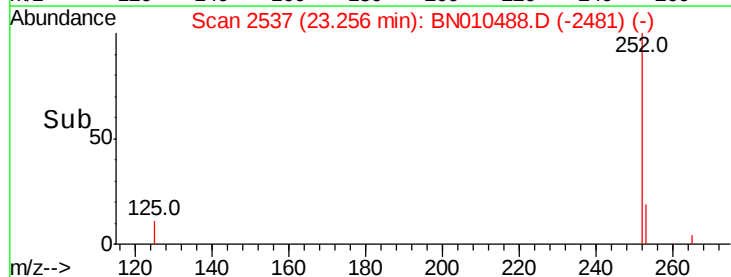
Abundance Ion 252.00 (251.70 to 252.70): E

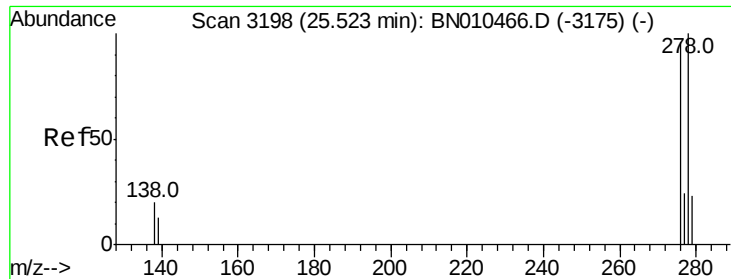
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#38

Dibenzo(a,h)anthracene

Concen: 0.026 ng

RT: 25.50 min Scan# 3194

Delta R.T. -0.02 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

Instrument :

BNA_N

ClientSampleId :

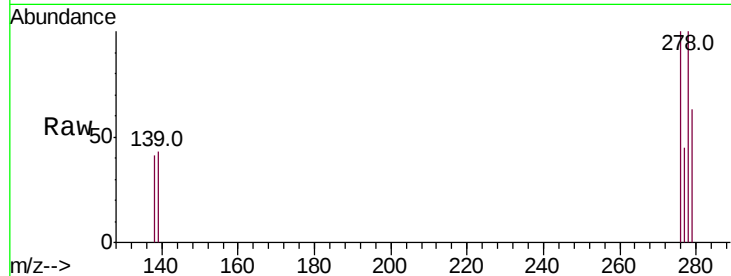
Tot Ion:278 Resp: 1634

Ion Ratio Lower Upper

278 100

139 42.6 12.3 18.5#

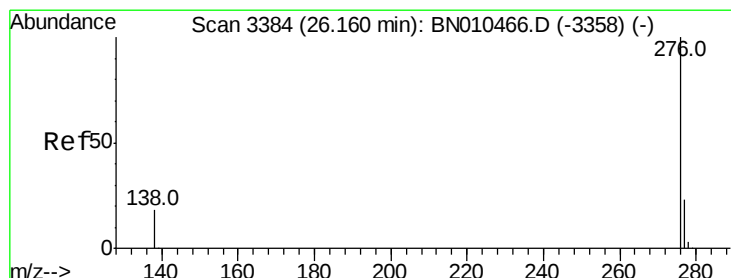
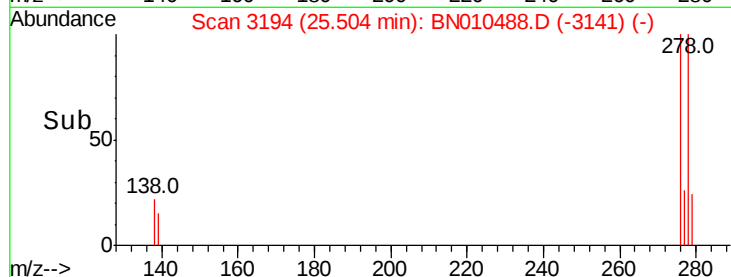
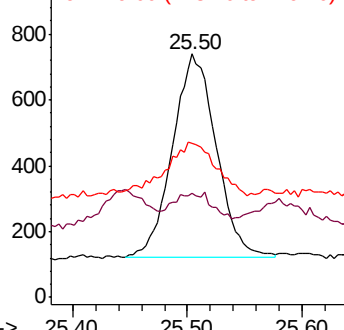
279 63.2 21.9 32.9#



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(g,h,i)perylene

Concen: 0.034 ng

RT: 26.14 min Scan# 3381

Delta R.T. -0.02 min

Lab File: BN010488.D

Acq: 14 Apr 2020 21:29

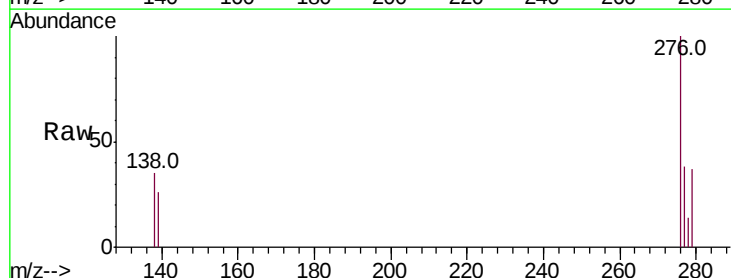
Tgt Ion:276 Resp: 2137

Ion Ratio Lower Upper

276 100

277 38.0 20.2 30.2#

138 34.6 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

