

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061520\
 Data File : BN010887.D
 Acq On : 16 Jun 2020 02:37
 Operator : CG/JU
 Sample : L2989-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RE105D1-20200609

Quant Time: Jun 16 09:43:38 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN061020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 15 11:09:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	2644	0.40	ng	0.00
7) Naphthalene-d8	10.30	136	9218	0.40	ng	0.00
13) Acenaphthene-d10	14.17	164	5387	0.40	ng	0.00
19) Phenanthrene-d10	16.92	188	10858	0.40	ng	0.00
27) Chrysene-d12	21.12	240	9320	0.40	ng	-0.01
34) Perylene-d12	23.27	264	9574	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	811	0.16	ng	0.00
5) Phenol-d6	6.74	99	532	0.09	ng	0.00
8) Nitrobenzene-d5	8.68	82	2388	0.35	ng	0.00
11) 2-Methylnaphthalene-d10	11.89	152	4640	0.32	ng	0.00
14) 2,4,6-Tribromophenol	15.67	330	574	0.30	ng	0.00
15) 2-Fluorobiphenyl	12.79	172	7772	0.37	ng	0.00
25) Fluoranthene-d10	18.95	212	11618	0.39	ng	0.00
29) Terphenyl-d14	19.57	244	11447	0.52	ng	0.00

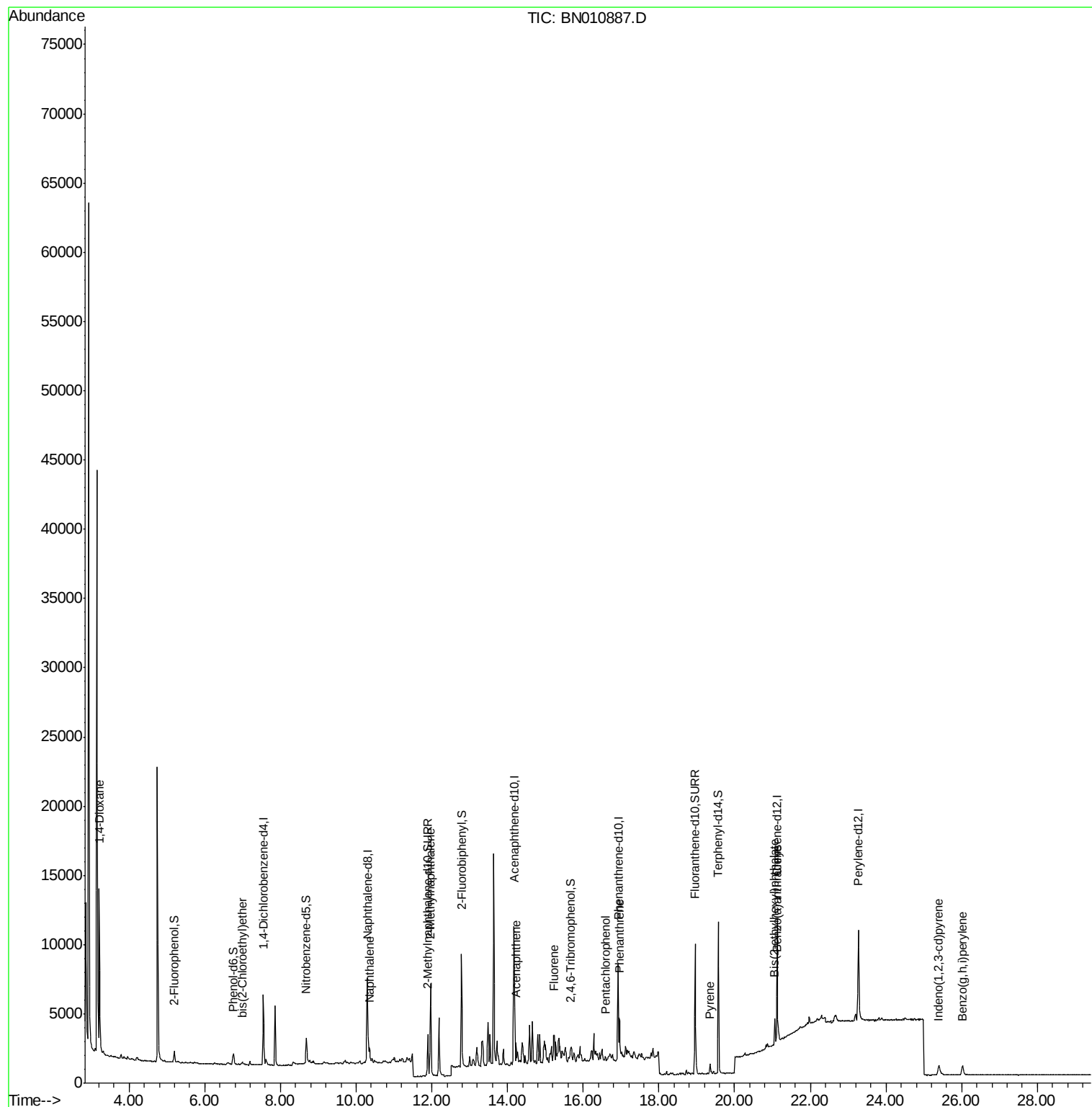
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.22	88	10386	4.010	ng	97
6) bis(2-Chloroethyl)ether	6.99	93	230	0.039	ng	# 84
9) Naphthalene	10.34	128	1387	0.060	ng	# 83
12) 2-Methylnaphthalene	11.97	142	5380	0.347	ng	98
17) Acenaphthene	14.22	154	407	0.027	ng	85
18) Fluorene	15.23	166	884	0.046	ng	# 93
22) Pentachlorophenol	16.59	266	62	0.027	ng	# 74
23) Phenanthrene	16.95	178	3587	0.121	ng	97
28) Pyrene	19.35	202	852	0.028	ng	96
30) Benzo(a)anthracene	21.11	228	575	0.021	ng	# 69
32) Bis(2-ethylhexyl)phthalate	21.06	149	1739	0.190	ng	97
33) Indeno(1,2,3-cd)pyrene	25.38	276	1061	0.030	ng	# 97
39) Benzo(a,h,i)perylene	26.02	276	1553	0.047	ng	# 76

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

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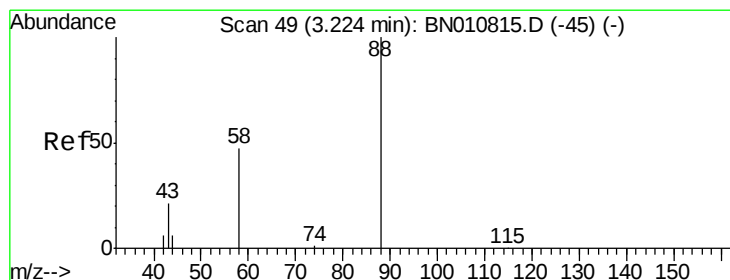
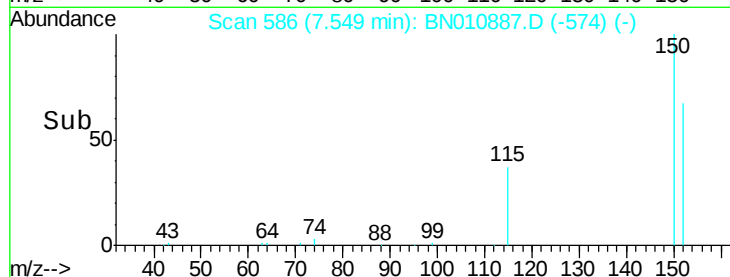
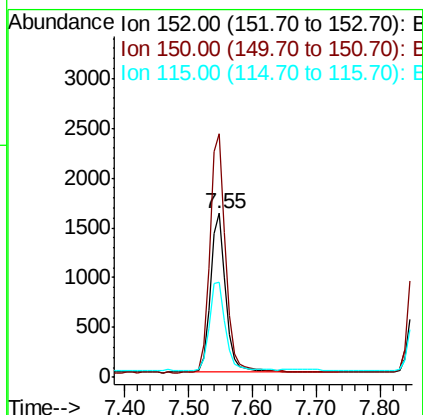
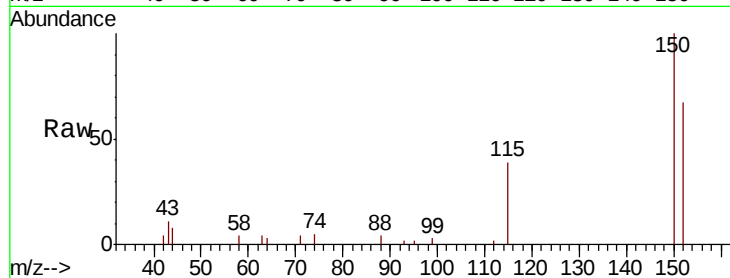


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.55 min Scan# 586
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Instrument :
BNA_N
ClientSampleId :
RE105D1-20200609

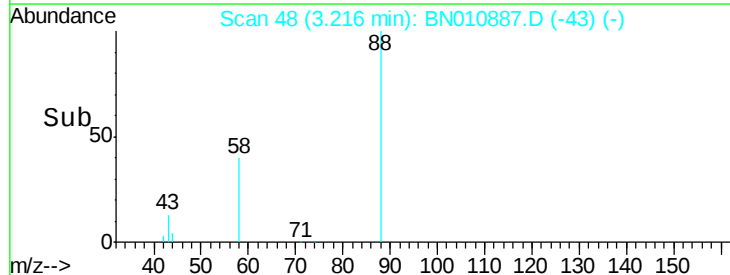
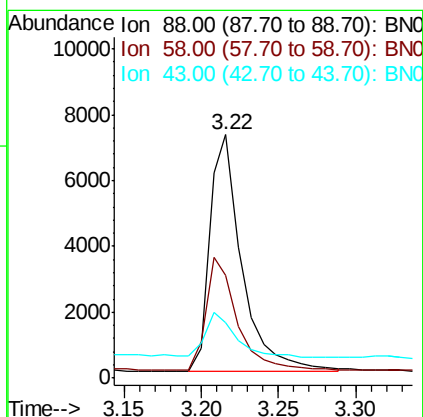
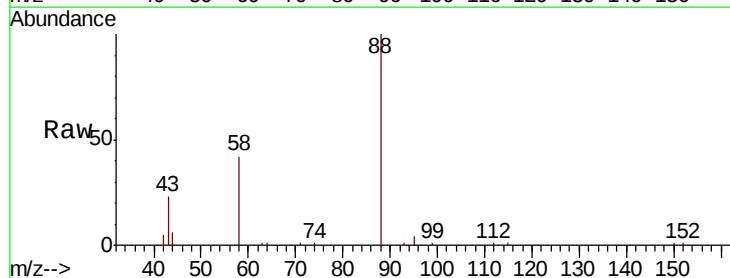
Tot Ion:152 Resp: 2644
Ion Ratio Lower Upper
152 100
150 148.5 123.8 185.6
115 58.2 49.2 73.8

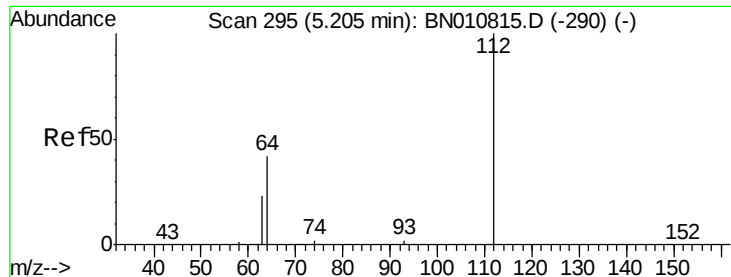


#2

1,4-Dioxane
Concen: 4.010 ng
RT: 3.22 min Scan# 48
Delta R.T. -0.01 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Tgt Ion: 88 Resp: 10386
Ion Ratio Lower Upper
88 100
58 45.2 38.2 57.4
43 17.9 15.1 22.7





#4

2-Fluorophenol

Concen: 0.159 ng

RT: 5.20 min Scan# 294

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

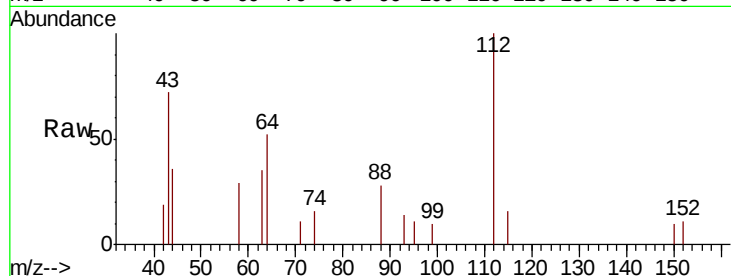
Tot Ion: 112 Resp: 811

Ion Ratio Lower Upper

112 100

64 46.4 37.4 56.0

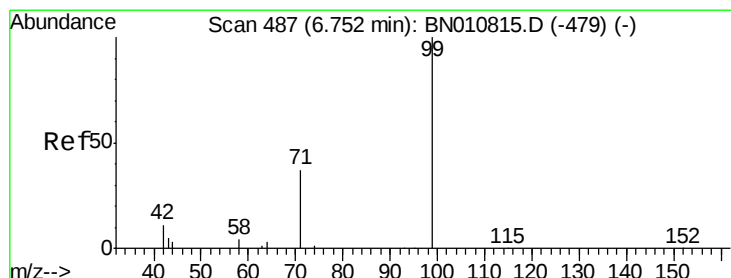
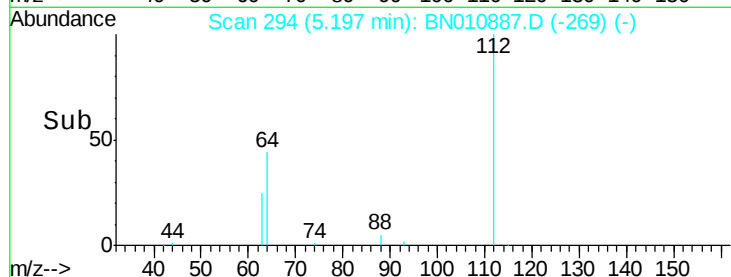
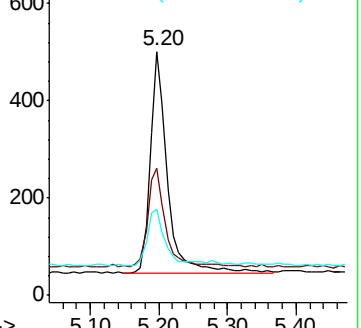
63 25.0 22.2 33.4



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNO

Ion 63.00 (62.70 to 63.70): BNO



#5

Phenol-d6

Concen: 0.088 ng

RT: 6.74 min Scan# 486

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

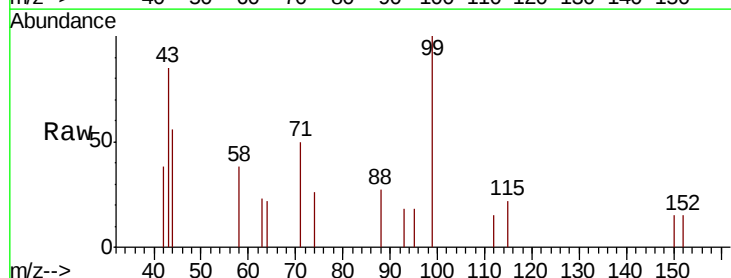
Tgt Ion: 99 Resp: 532

Ion Ratio Lower Upper

99 100

42 16.2 11.1 16.7

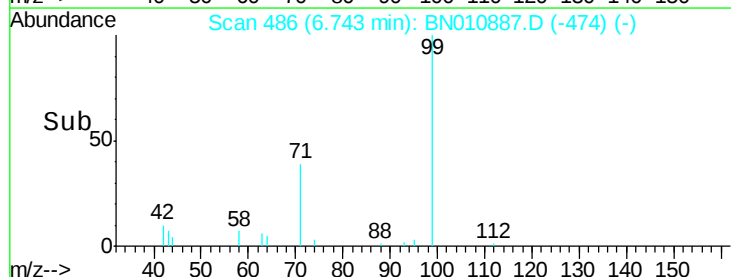
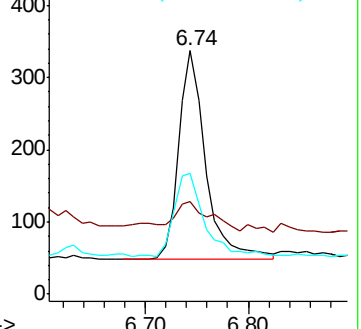
71 43.2 31.4 47.2

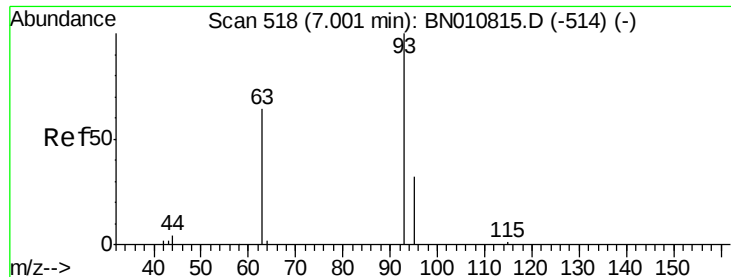


Abundance Ion 99.00 (98.70 to 99.70): BNO

Ion 42.00 (41.70 to 42.70): BNO

Ion 71.00 (70.70 to 71.70): BNO





#6

bis(2-Chloroethyl)ether

Concen: 0.039 ng

RT: 6.99 min Scan# 517

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

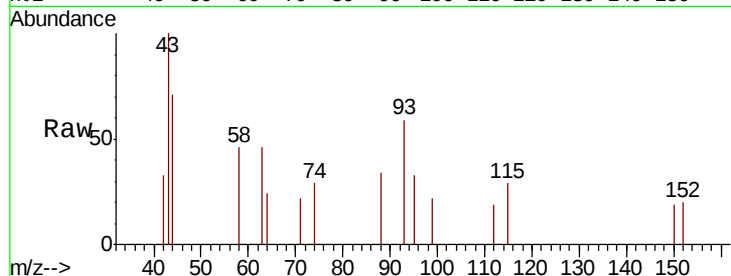
Tot Ion: 93 Resp: 230

Ion Ratio Lower Upper

93 100

63 46.1 49.4 74.2#

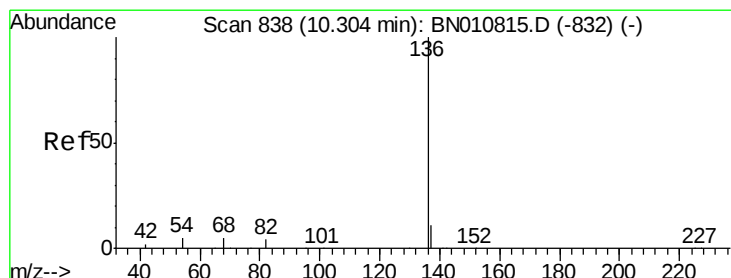
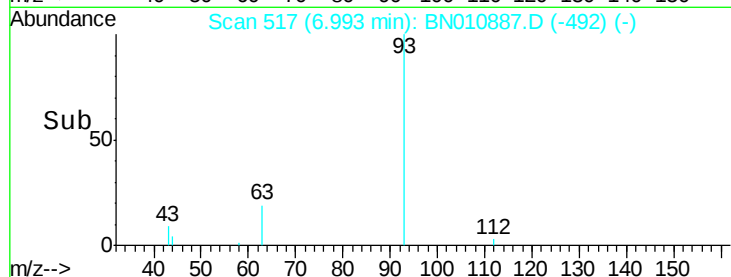
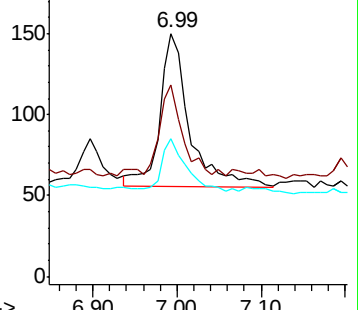
95 28.7 26.7 40.1



Abundance Ion 93.00 (92.70 to 93.70): BN010815.D (-514) (-)

Ion 63.00 (62.70 to 63.70): BN010815.D (-514) (-)

Ion 95.00 (94.70 to 95.70): BN010815.D (-514) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.30 min Scan# 838

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Tgt Ion: 136 Resp: 9218

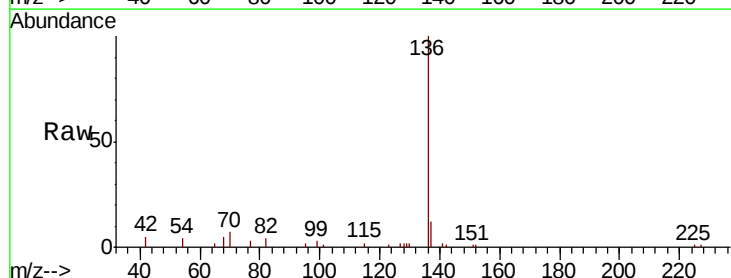
Ion Ratio Lower Upper

136 100

137 12.1 9.7 14.5

54 4.1 4.9 7.3#

68 5.1 4.7 7.1

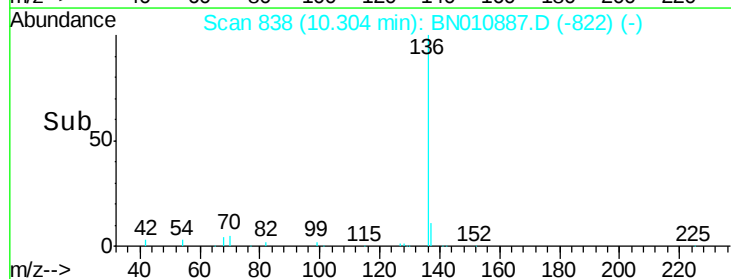
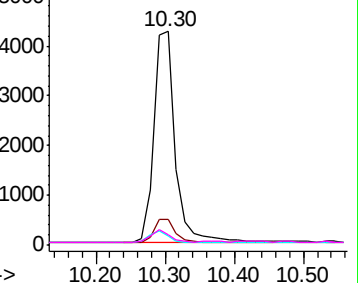


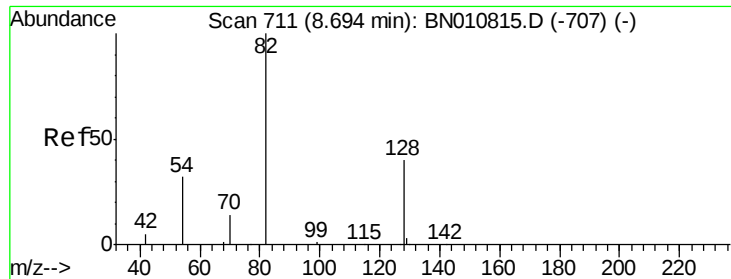
Abundance Ion 136.00 (135.70 to 136.70): BN010815.D (-832) (-)

Ion 137.00 (136.70 to 137.70): BN010815.D (-832) (-)

Ion 54.00 (53.70 to 54.70): BN010815.D (-832) (-)

Ion 68.00 (67.70 to 68.70): BN010815.D (-832) (-)





#8

Nitrobenzene-d5

Concen: 0.350 ng

RT: 8.68 min Scan# 710

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

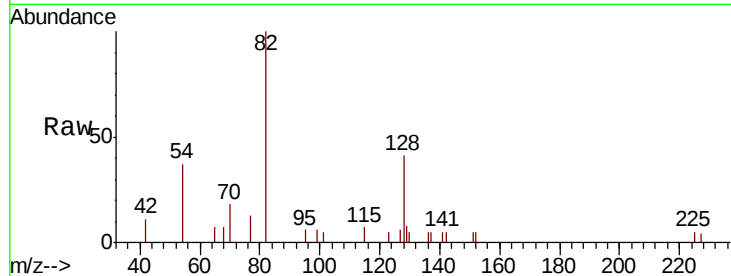
Tot Ion: 82 Resp: 2388

Ion Ratio Lower Upper

82 100

128 40.9 35.4 53.0

54 36.7 28.2 42.4

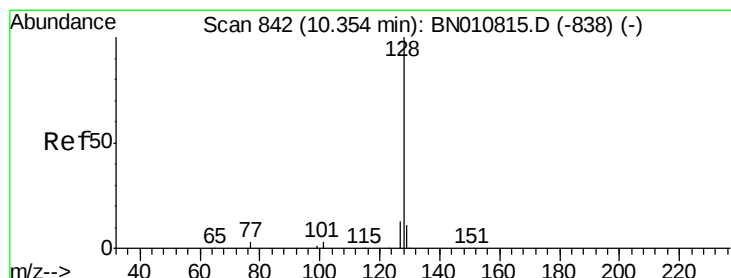
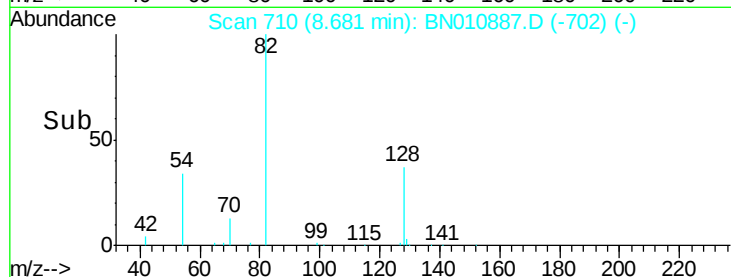


Abundance Ion 82.00 (81.70 to 82.70): BN010887.D (-702) (-)

Ion 128.00 (127.70 to 128.70): BN010887.D (-702) (-)

Ion 54.00 (53.70 to 54.70): BN010887.D (-702) (-)

Time-->



#9

Naphthalene

Concen: 0.060 ng

RT: 10.34 min Scan# 841

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

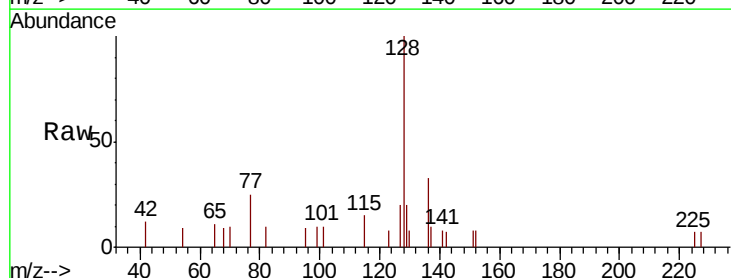
Tgt Ion: 128 Resp: 1387

Ion Ratio Lower Upper

128 100

129 19.7 9.6 14.4#

127 20.4 11.4 17.2#

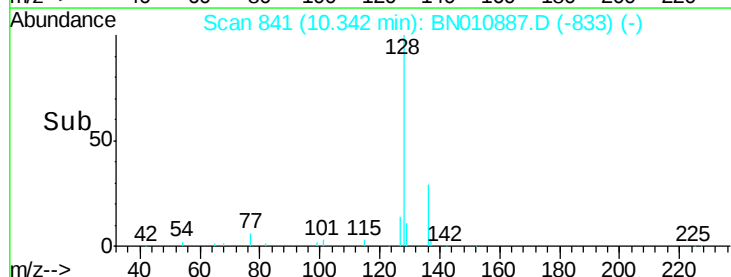


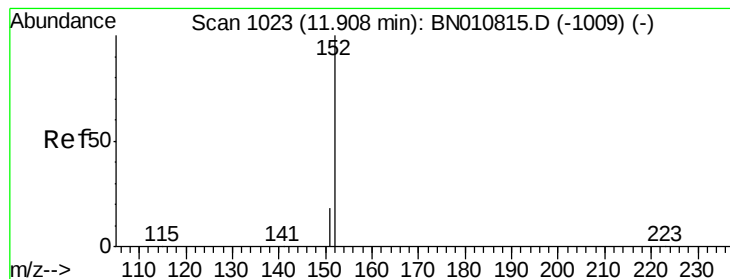
Abundance Ion 128.00 (127.70 to 128.70): BN010887.D (-833) (-)

Ion 129.00 (128.70 to 129.70): BN010887.D (-833) (-)

Ion 127.00 (126.70 to 127.70): BN010887.D (-833) (-)

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.325 ng

RT: 11.89 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

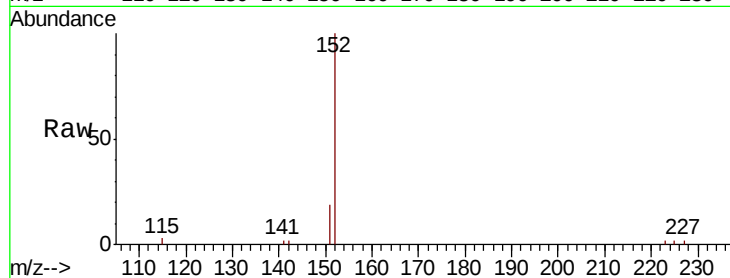
RE105D1-20200609

Tot Ion:152 Resp: 4640

Ion Ratio Lower Upper

152 100

151 19.6 15.3 22.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.89

3000

2500

2000

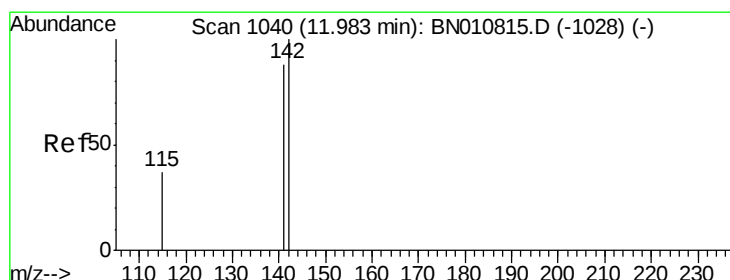
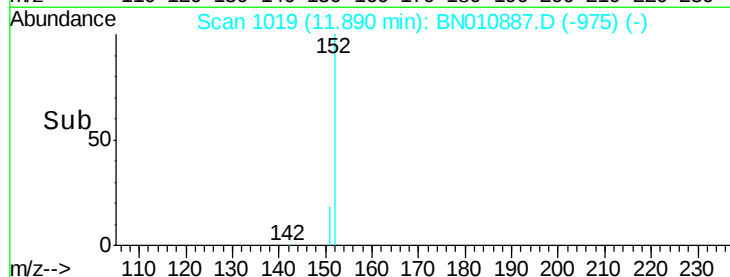
1500

1000

500

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.347 ng

RT: 11.97 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

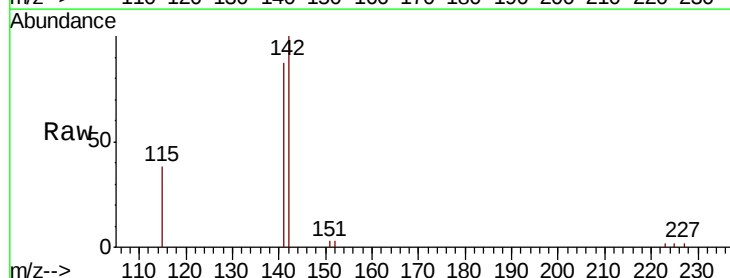
Tgt Ion:142 Resp: 5380

Ion Ratio Lower Upper

142 100

141 86.7 70.8 106.2

115 38.4 31.5 47.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.97

4000

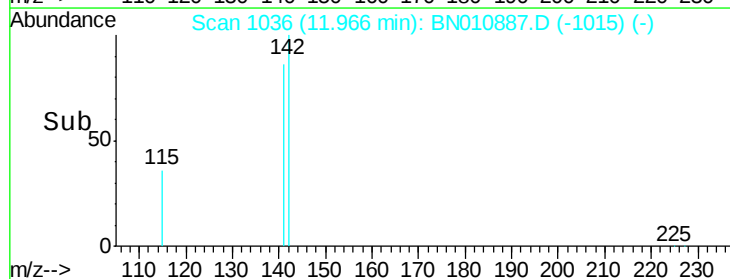
3000

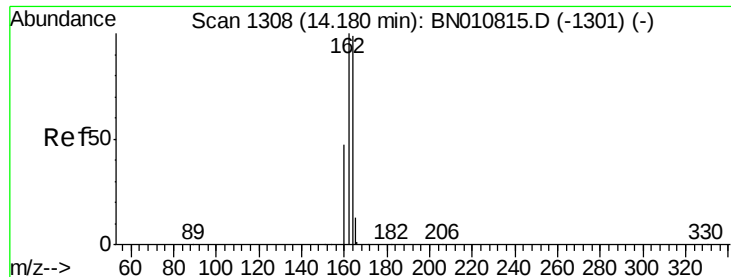
2000

1000

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.17 min Scan# 1307

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

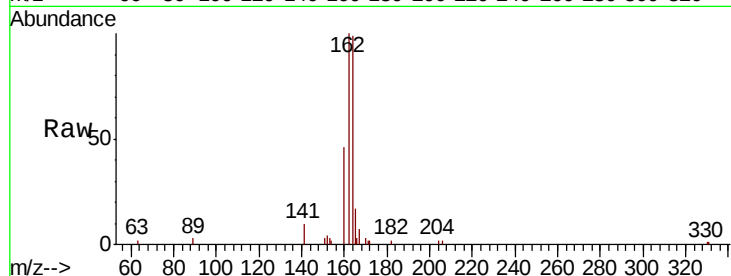
Tot Ion:164 Resp: 5387

Ion Ratio Lower Upper

164 100

162 100.9 81.0 121.6

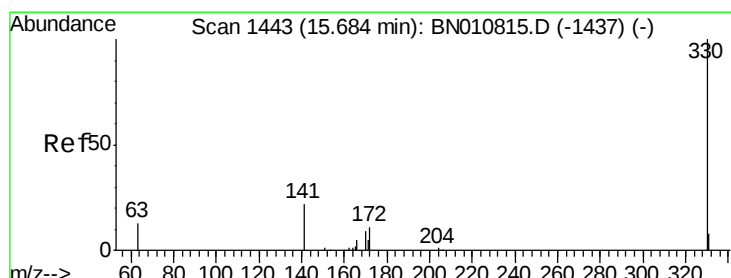
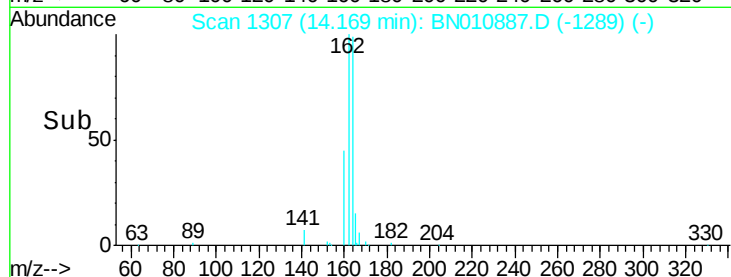
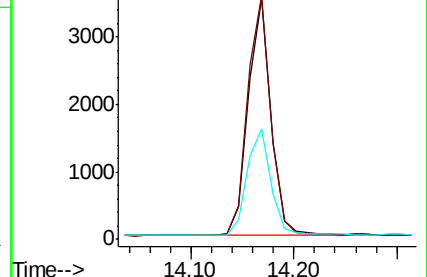
160 46.0 38.9 58.3



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



#14

2,4,6-Tribromophenol

Concen: 0.298 ng

RT: 15.67 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

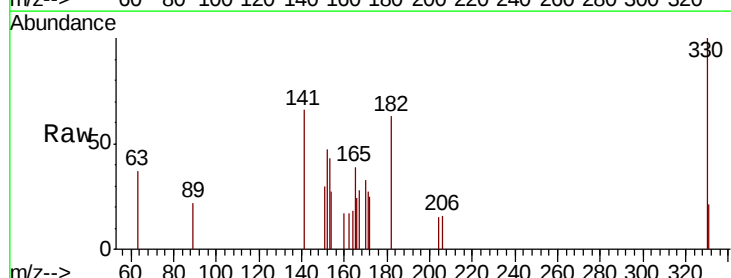
Tgt Ion:330 Resp: 574

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

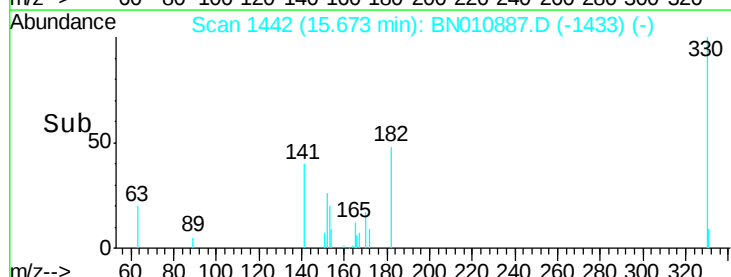
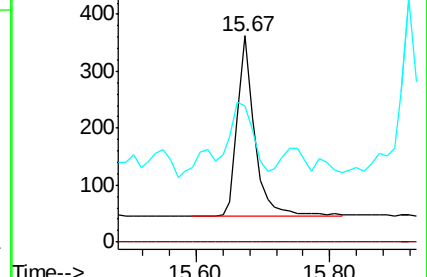
141 48.4 33.2 49.8

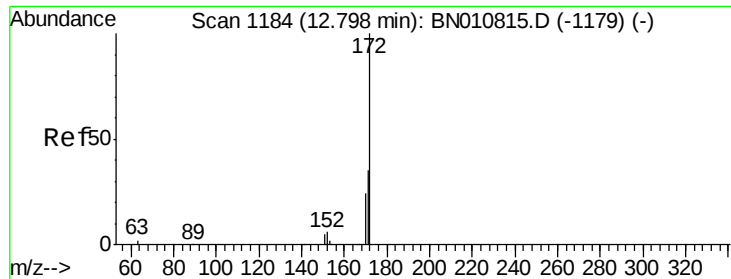


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

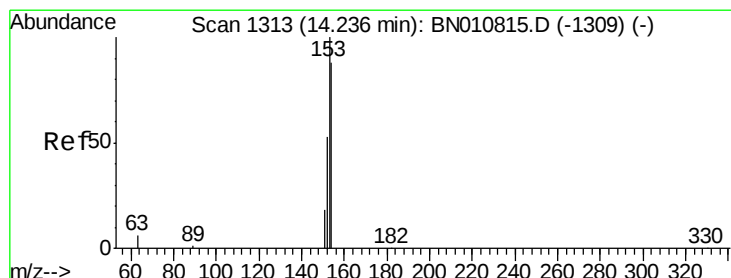
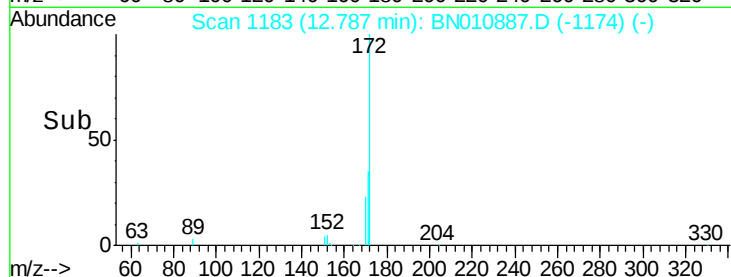
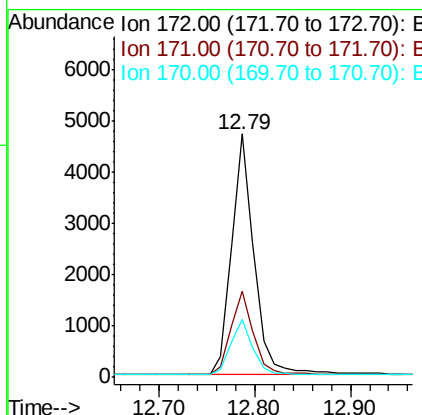
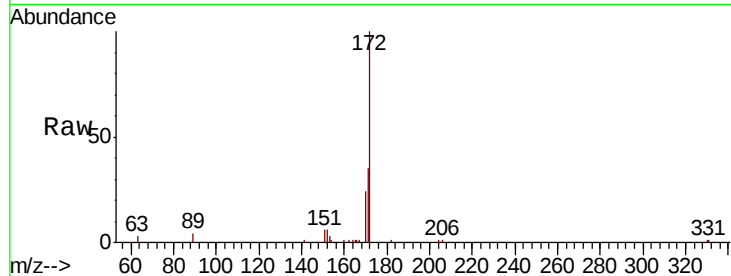




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.79 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

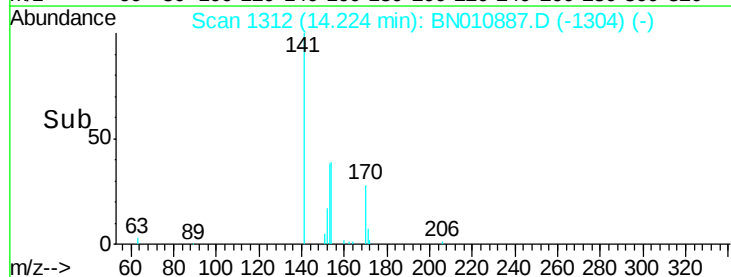
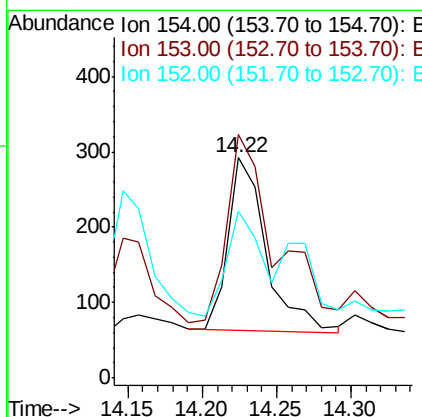
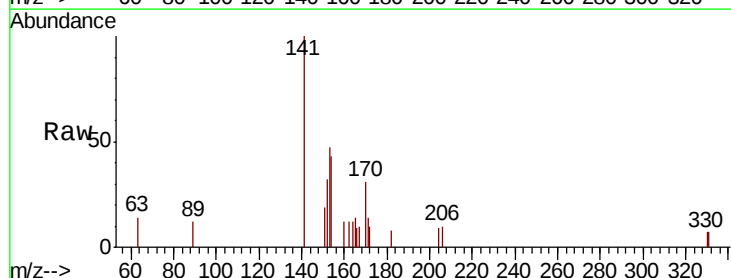
Instrument :
BNA_N
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RE105D1-20200609

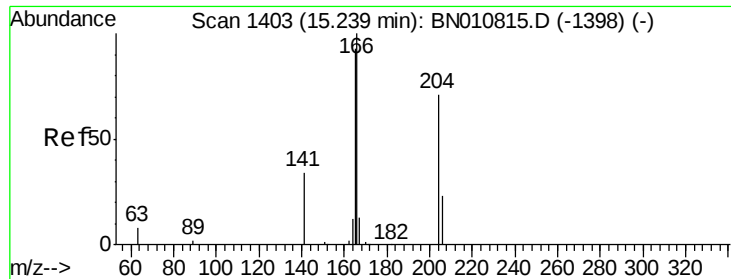
Tot Ion:172 Resp: 7772
Ion Ratio Lower Upper
172 100
171 35.5 28.5 42.7
170 24.0 19.7 29.5



#17
Acenaphthene
Concen: 0.027 ng
RT: 14.22 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Tgt Ion:154 Resp: 407
Ion Ratio Lower Upper
154 100
153 135.6 91.8 137.6
152 55.5 47.6 71.4





#18

Fluorene

Concen: 0.046 ng

RT: 15.23 min Scan# 1402

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

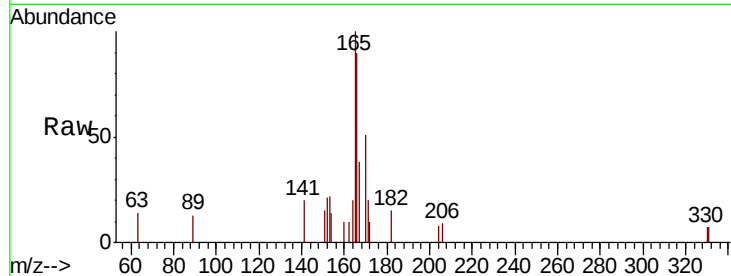
Tot Ion:166 Resp: 884

Ion Ratio Lower Upper

166 100

165 98.9 77.2 115.8

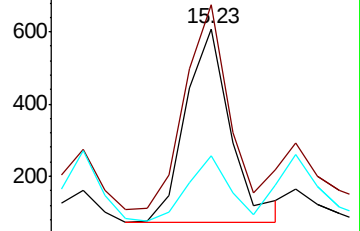
167 30.9 10.7 16.1#



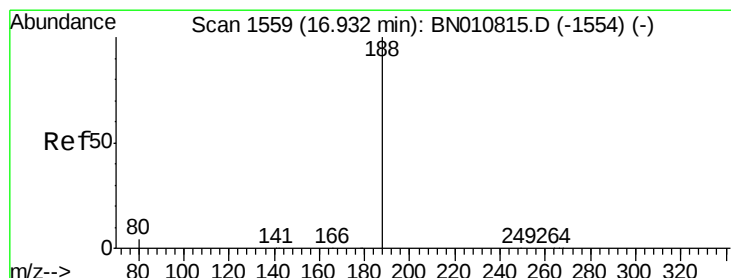
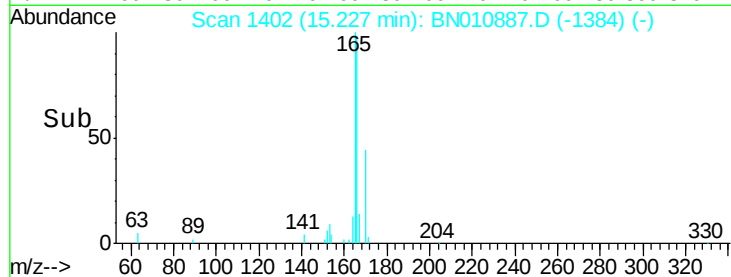
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.92 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

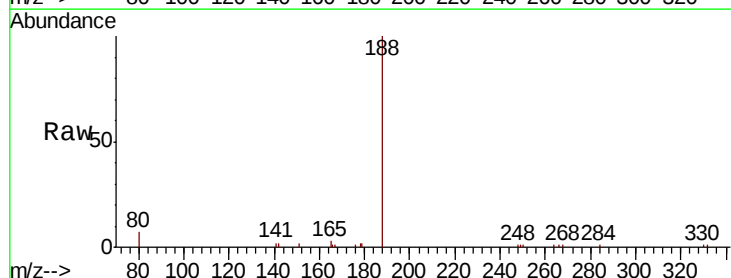
Tgt Ion:188 Resp: 10858

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

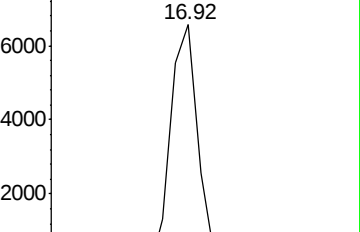
80 7.3 4.5 6.7#



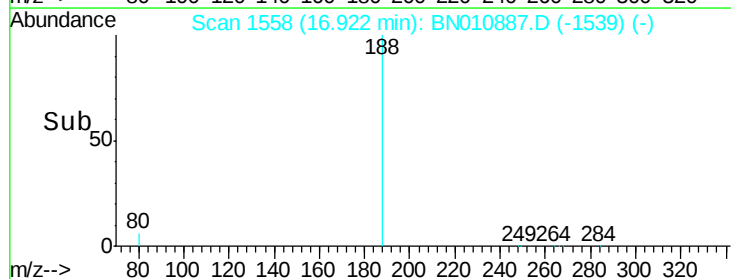
Abundance Ion 188.00 (187.70 to 188.70): E

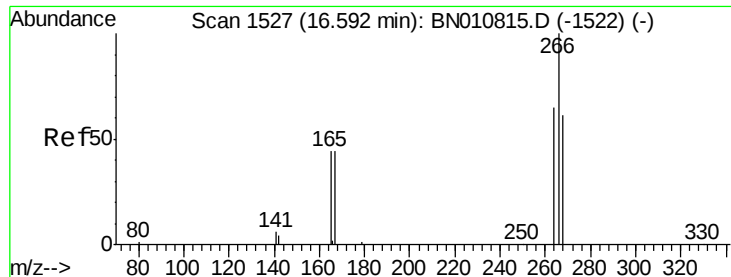
Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



Time-->

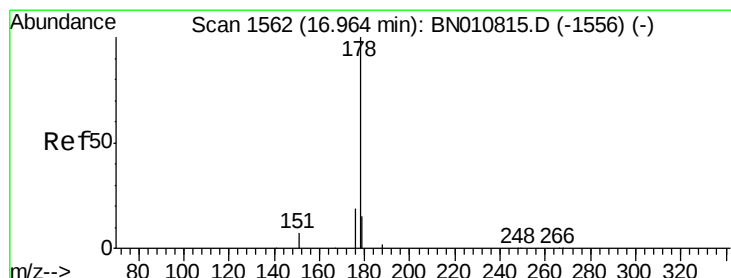
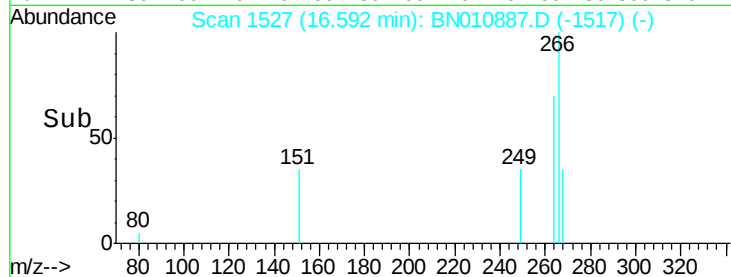
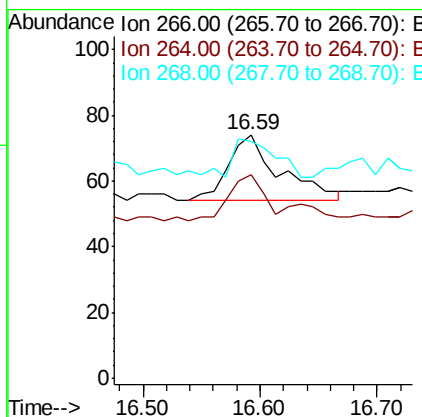
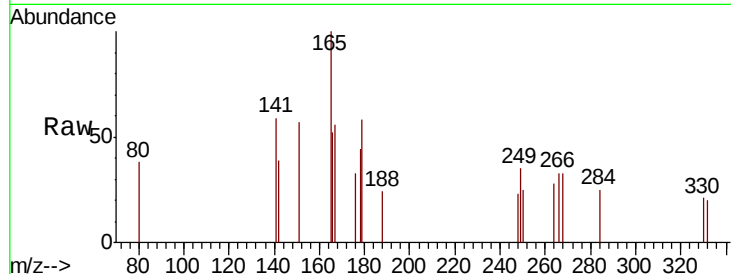




#22
 Pentachlorophenol
 Concen: 0.027 ng
 RT: 16.59 min Scan# 1527
 Delta R.T. 0.01 min
 Lab File: BN010887.D
 Acq: 16 Jun 2020 02:37

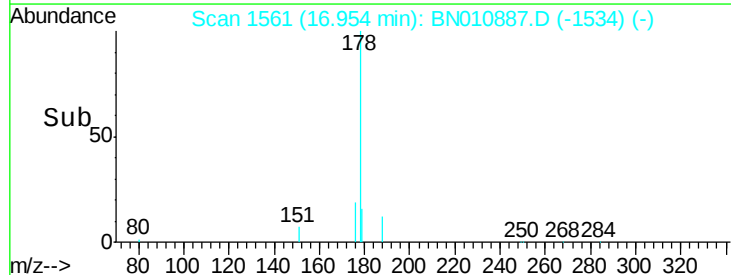
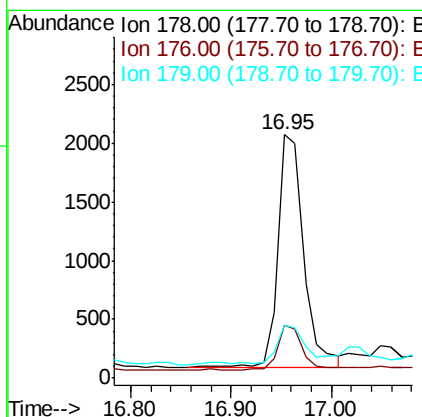
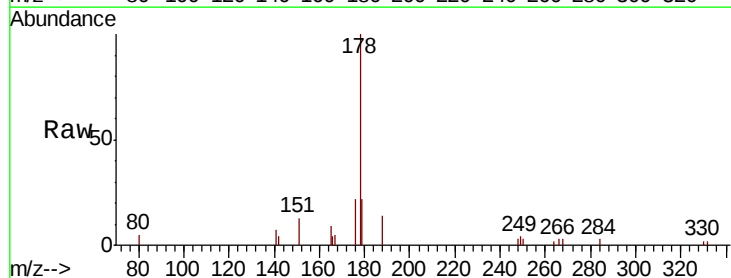
Instrument :
 BNA_N
 ClientSampleId :
 RE105D1-20200609

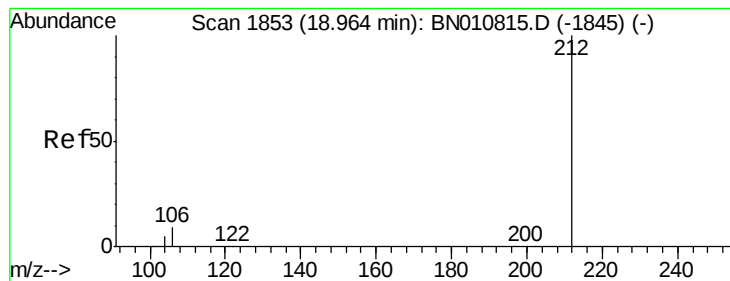
Tot Ion:266 Resp: 62
 Ion Ratio Lower Upper
 266 100
 264 83.8 54.8 82.2#
 268 97.3 55.9 83.9#



#23
 Phenanthrene
 Concen: 0.121 ng
 RT: 16.95 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: BN010887.D
 Acq: 16 Jun 2020 02:37

Tgt Ion:178 Resp: 3587
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.3 22.9
 179 18.6 12.6 19.0





#25

Fluoranthene-d10

Concen: 0.388 ng

RT: 18.95 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

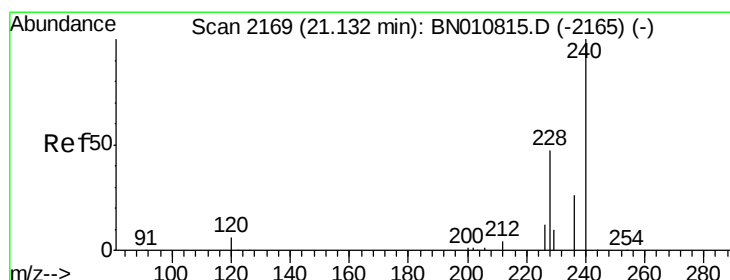
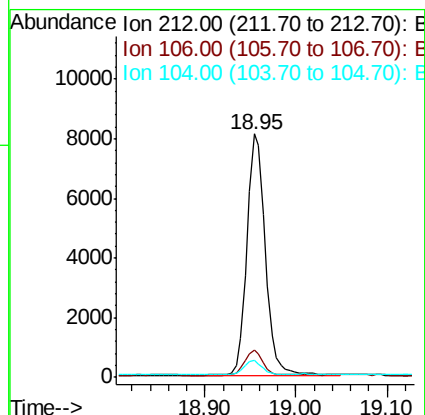
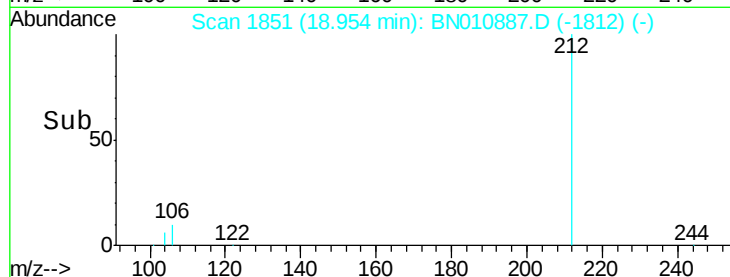
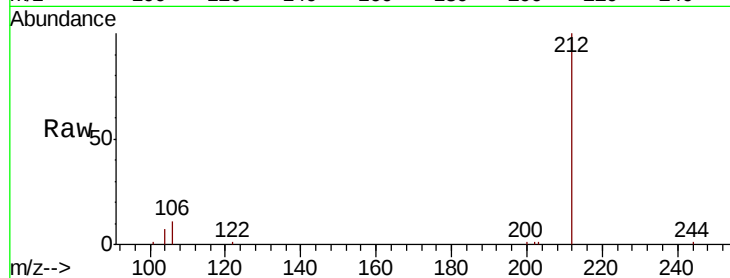
Tot Ion:212 Resp: 11618

Ion Ratio Lower Upper

212 100

106 10.0 6.6 10.0#

104 5.9 4.0 6.0



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

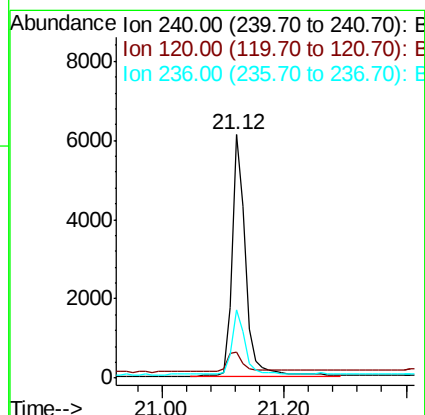
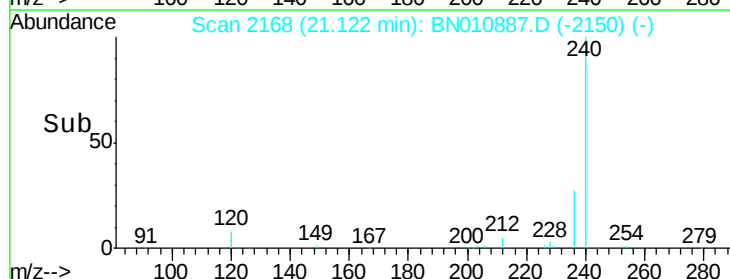
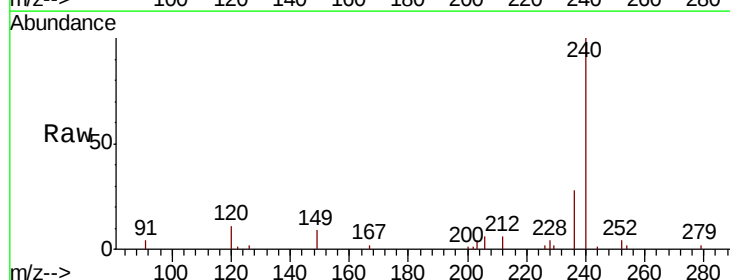
Tgt Ion:240 Resp: 9320

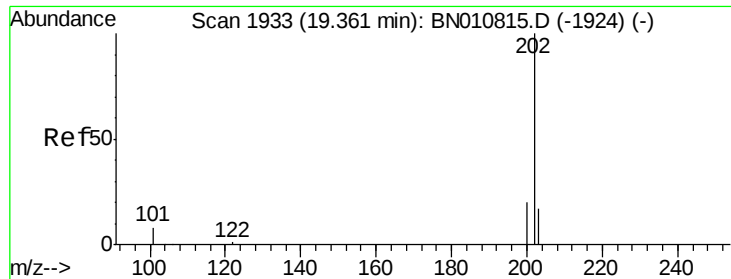
Ion Ratio Lower Upper

240 100

120 10.7 7.5 11.3

236 27.8 22.3 33.5

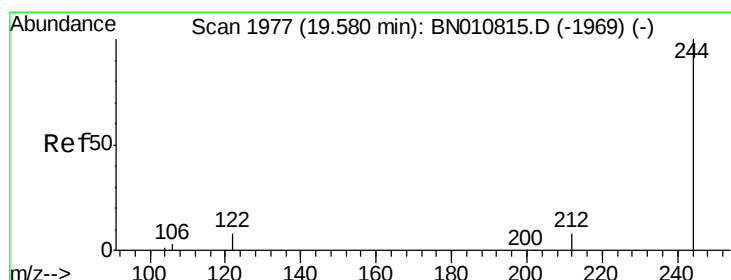
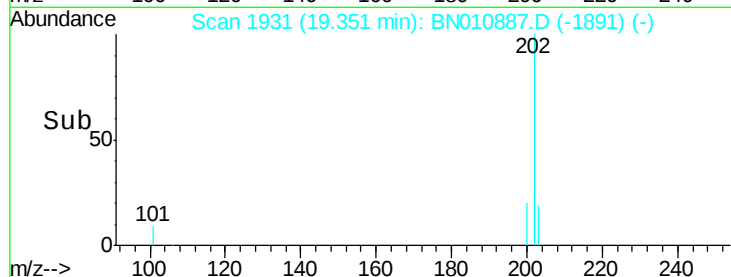
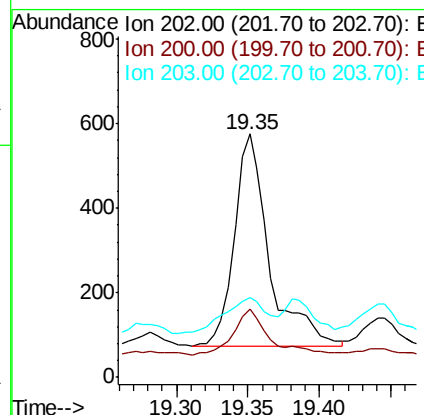
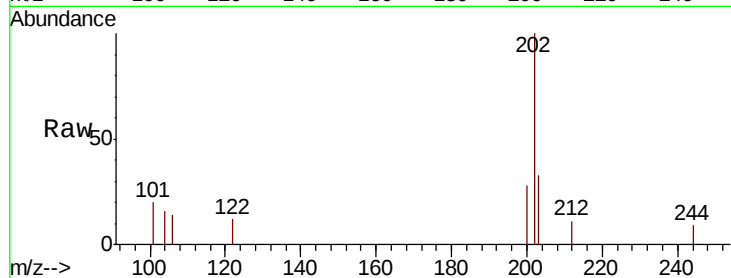




#28
Pvrene
Concen: 0.028 ng
RT: 19.35 min Scan# 1931
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

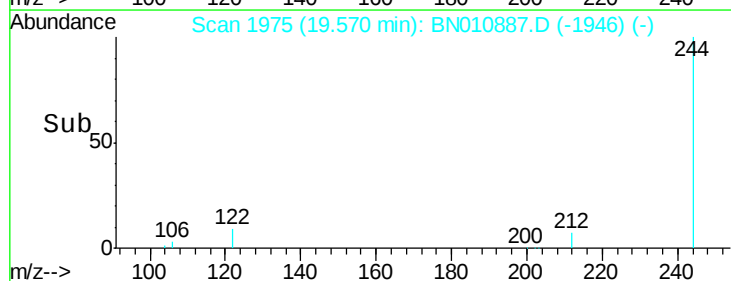
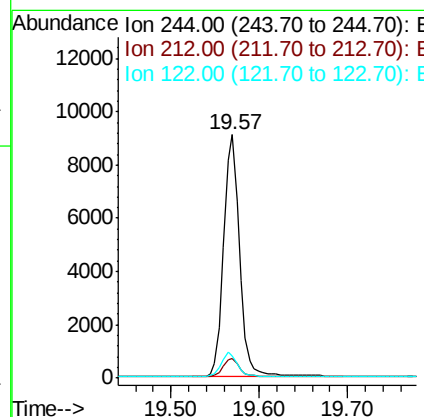
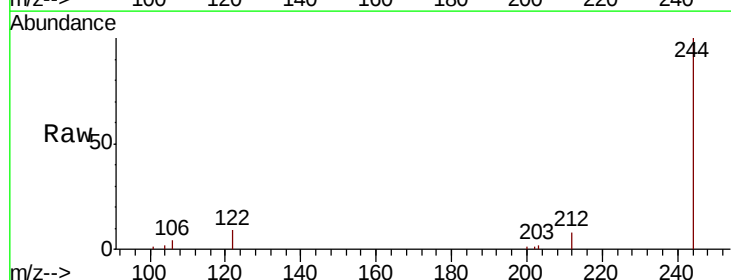
Instrument :
BNA_N
ClientSampleId :
RE105D1-20200609

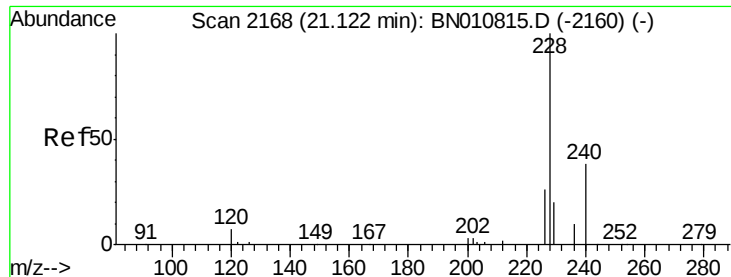
Tot Ion:202 Resp: 852
Ion Ratio Lower Upper
202 100
200 22.2 16.4 24.6
203 20.2 14.2 21.4



#29
Terphenyl-d14
Concen: 0.525 ng
RT: 19.57 min Scan# 1975
Delta R.T. -0.01 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Tgt Ion:244 Resp: 11447
Ion Ratio Lower Upper
244 100
212 8.0 7.4 11.2
122 9.3 7.5 11.3





#30

Benzo(a)anthracene

Concen: 0.021 ng

RT: 21.11 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

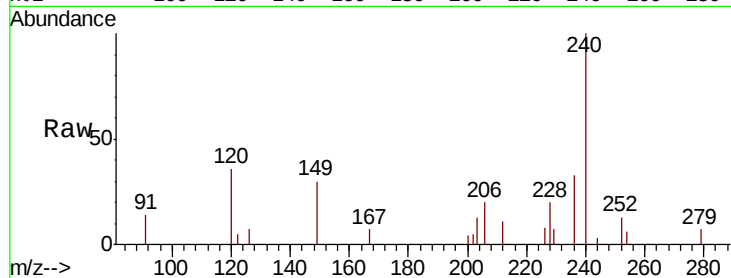
Tot Ion:228 Resp: 575

Ion Ratio Lower Upper

228 100

226 40.6 21.3 31.9#

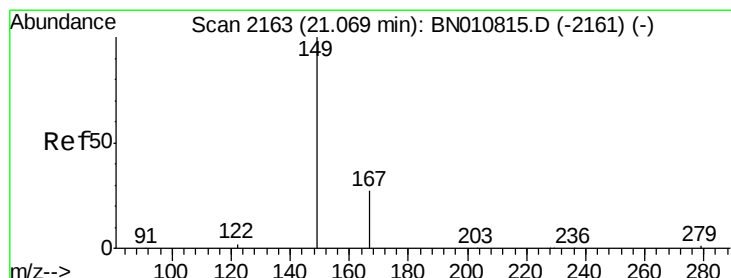
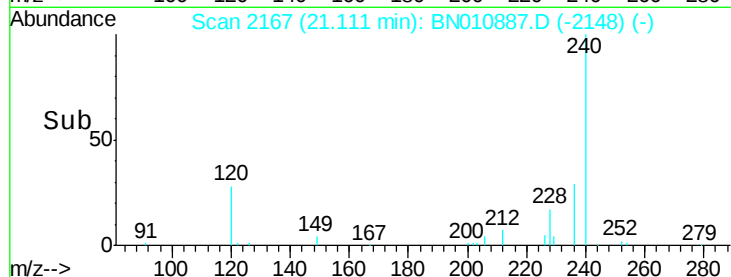
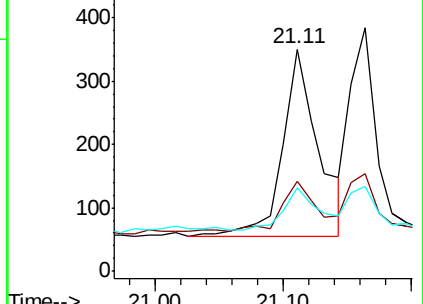
229 37.4 16.6 24.8#



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: 0.190 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

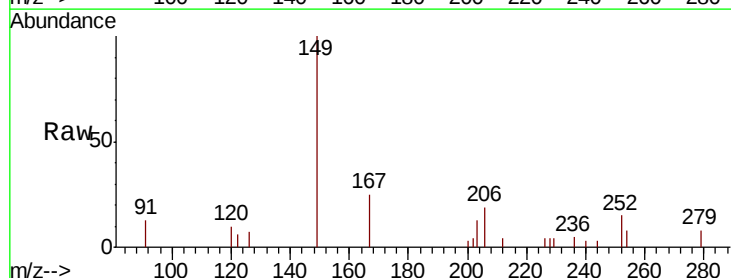
Tgt Ion:149 Resp: 1739

Ion Ratio Lower Upper

149 100

167 28.1 24.1 36.1

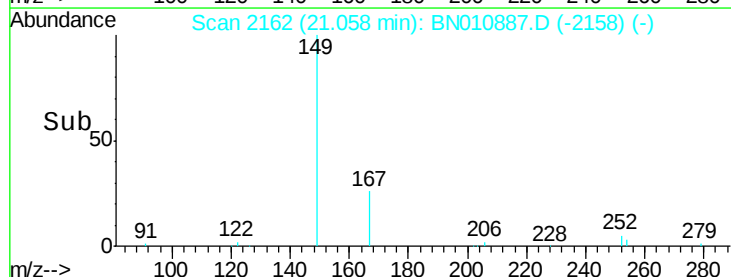
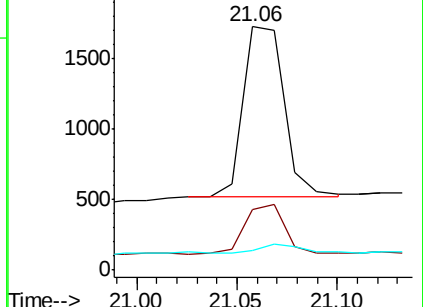
279 5.4 4.6 7.0

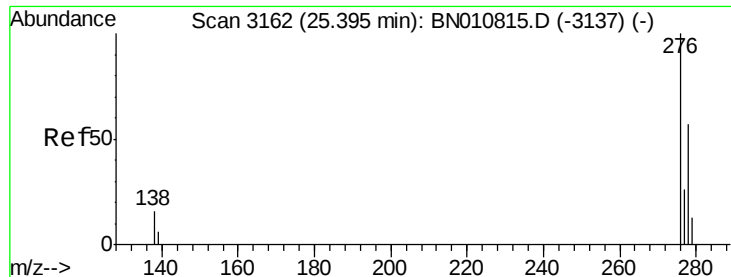


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.030 ng

RT: 25.38 min Scan# 3159

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609

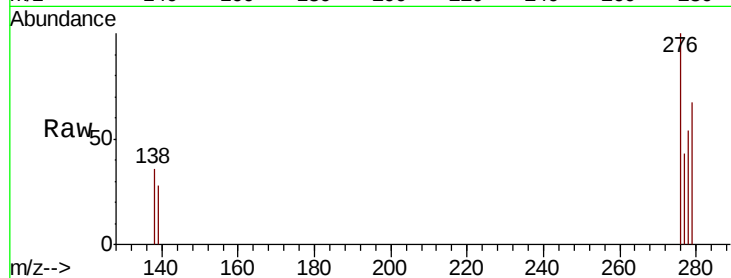
Tot Ion:276 Resp: 1061

Ion Ratio Lower Upper

276 100

138 19.6 13.0 19.6#

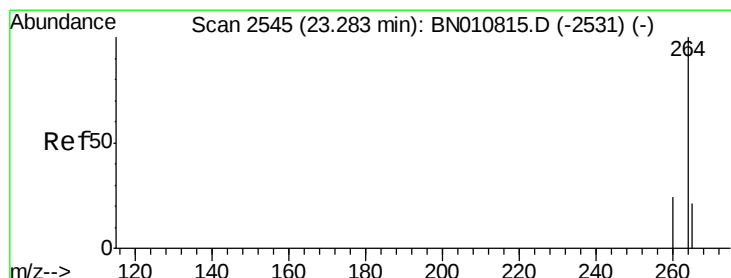
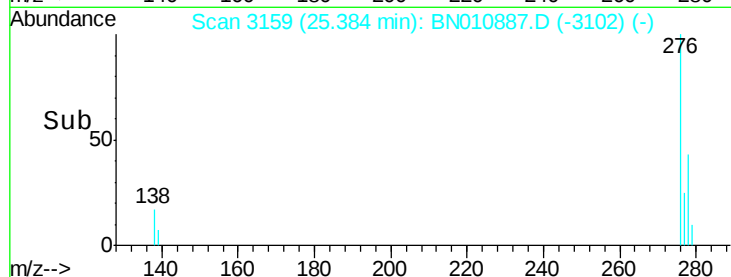
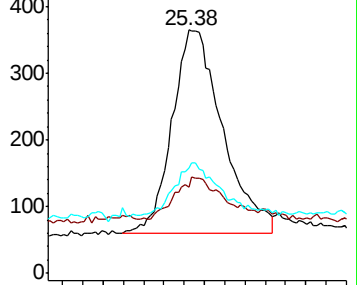
277 24.6 19.7 29.5



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

Perylene-d12

Concen: 0.400 ng

RT: 23.27 min Scan# 2542

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

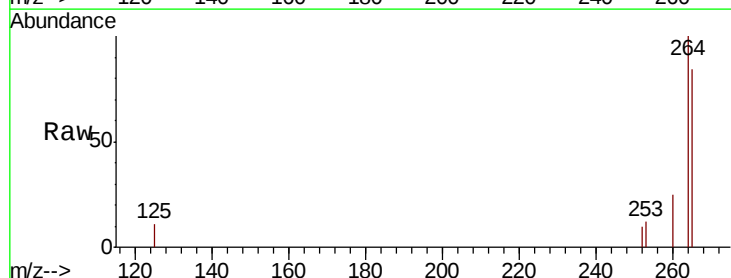
Tgt Ion:264 Resp: 9574

Ion Ratio Lower Upper

264 100

260 24.8 20.4 30.6

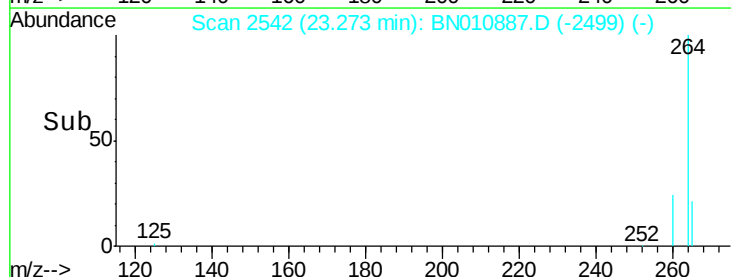
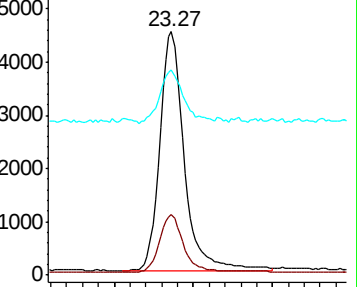
265 84.0 75.0 112.4

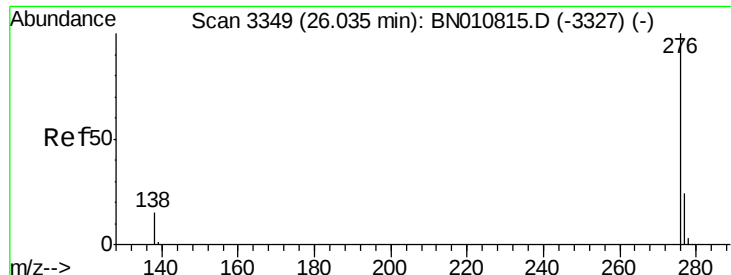


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.047 ng

RT: 26.02 min Scan# 3345

Delta R.T. -0.00 min

Lab File: BN010887.D

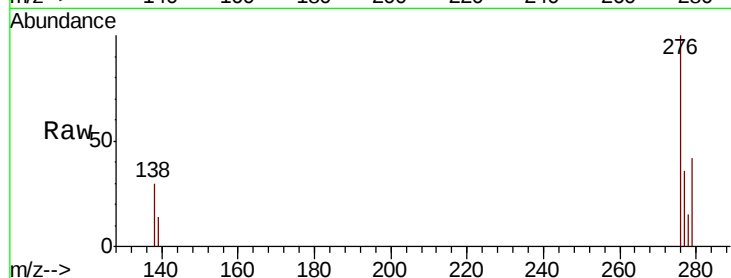
Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

RE105D1-20200609



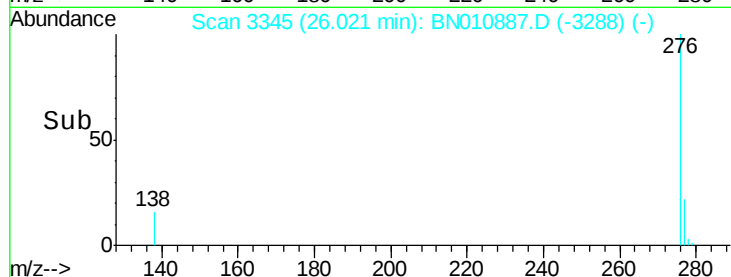
Tot Ion: 276 Resp: 1553

Ion Ratio Lower Upper

276 100

277 36.1 20.5 30.7#

138 30.0 13.7 20.5#



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

