

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030920\  
 Data File : BN010154.D  
 Acq On : 09 Mar 2020 20:31  
 Operator : CG/JU  
 Sample : L1842-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 09 22:12:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 19 15:57:43 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 657      | 0.40 | ng    | -0.03    |
| 7) Naphthalene-d8         | 10.16 | 136  | 2175     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.01 | 164  | 1569     | 0.40 | ng    | -0.04    |
| 19) Phenanthrene-d10      | 16.79 | 188  | 3246     | 0.40 | ng    | -0.02    |
| 27) Chrysene-d12          | 21.00 | 240  | 3277     | 0.40 | ng    | -0.03    |
| 34) Perylene-d12          | 23.10 | 264  | 3288     | 0.40 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.06  | 112  | 290      | 0.20 | ng    | -0.02    |
| 5) Phenol-d6                | 6.71  | 99   | 58       | 0.03 | ng    | 0.06     |
| 8) Nitrobenzene-d5          | 8.67  | 82   | 513      | 0.28 | ng    | 0.08     |
| 11) 2-Methylnaphthalene-d10 | 11.76 | 152  | 1550     | 0.37 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.57 | 330  | 300      | 0.50 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 12.65 | 172  | 2376     | 0.40 | ng    | -0.03    |
| 25) Fluoranthene-d10        | 18.83 | 212  | 4165     | 0.37 | ng    | -0.03    |
| 29) Terphenyl-d14           | 19.43 | 244  | 4070     | 0.52 | ng    | -0.05    |

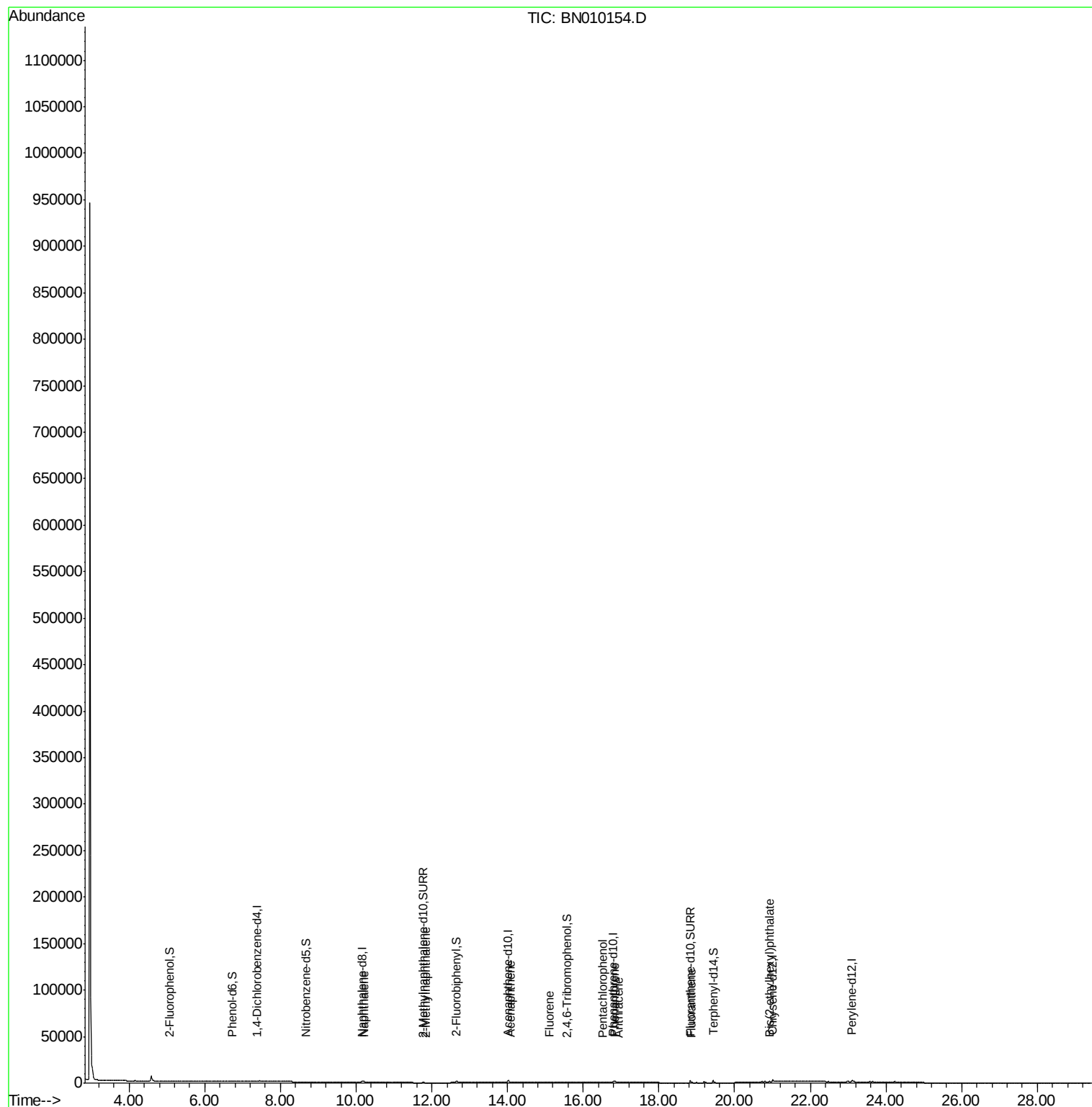
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Naphthalene                 | 10.21 | 128  | 165      | 0.028     | ng    | # 1    |
| 12) 2-Methylnaphthalene        | 11.84 | 142  | 83       | 0.020     | ng    | # 62   |
| 17) Acenaphthene               | 14.08 | 154  | 223      | 0.047     | ng    | 95     |
| 18) Fluorene                   | 15.10 | 166  | 428      | 0.069     | ng    | 95     |
| 20) 4-Bromophenyl-phenylether  | 16.04 | 248  | 146      | Below Cal |       | # 77   |
| 22) Pentachlorophenol          | 16.52 | 266  | 5        | 0.186     | ng    | # 77   |
| 23) Phenanthrene               | 16.84 | 178  | 1233     | 0.128     | ng    | 98     |
| 24) Anthracene                 | 16.94 | 178  | 169      | 0.021     | ng    | 98     |
| 26) Fluoranthene               | 18.86 | 202  | 234      | 0.020     | ng    | # 86   |
| 32) Bis(2-ethylhexyl)phthalate | 20.92 | 149  | 462      | 0.087     | ng    | 98     |

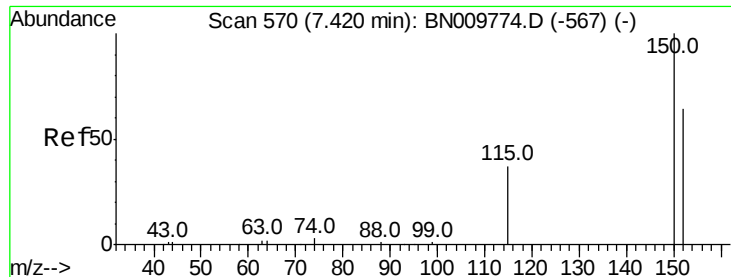
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 13 Sample Multiplier: 1

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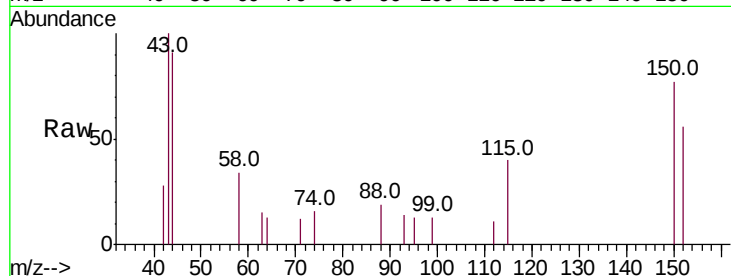


#1

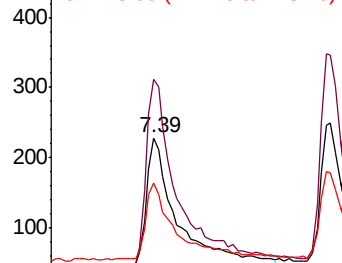
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.39 min Scan# 566  
Delta R.T. -0.03 min  
Lab File: BN010154.D  
Acq: 09 Mar 2020 20:31

Instrument :  
BNA\_N  
ClientSampleId :

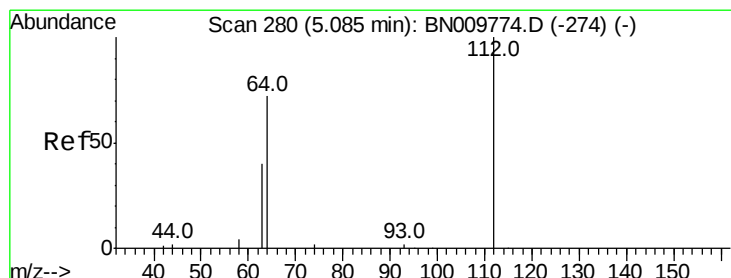
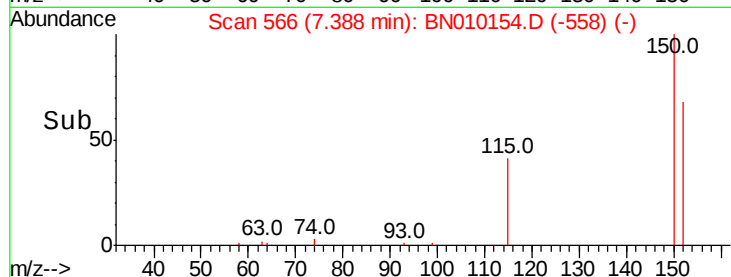
Tot Ion:152 Resp: 657  
Ion Ratio Lower Upper  
152 100  
150 136.8 120.6 181.0  
115 71.9 51.2 76.8



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



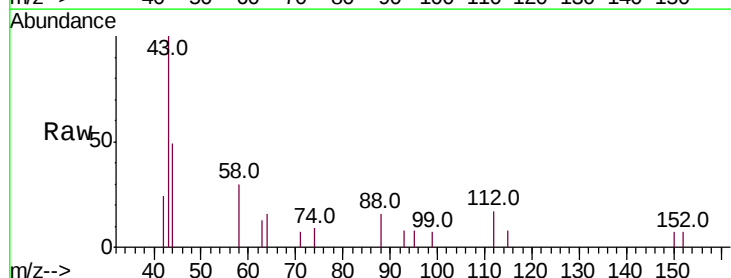
Time-->



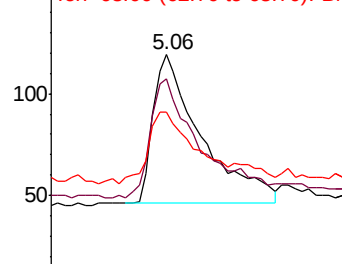
#4

2-Fluorophenol  
Concen: 0.199 ng  
RT: 5.06 min Scan# 277  
Delta R.T. -0.02 min  
Lab File: BN010154.D  
Acq: 09 Mar 2020 20:31

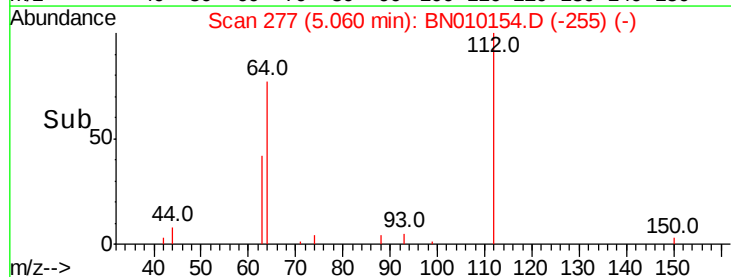
Tgt Ion:112 Resp: 290  
Ion Ratio Lower Upper  
112 100  
64 82.8 65.8 98.6  
63 46.2 38.7 58.1

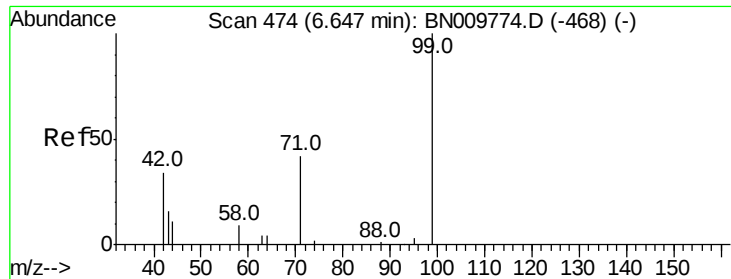


Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BNC  
Ion 63.00 (62.70 to 63.70): BNC



Time-->





#5

Phenol-d6

Concen: 0.033 ng

RT: 6.71 min Scan# 482

Delta R.T. 0.06 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampled :

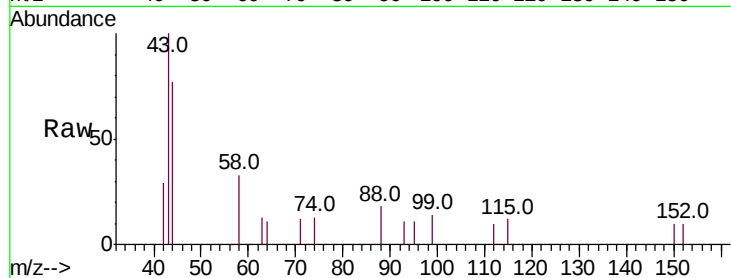
Tot Ion: 99 Resp: 58

Ion Ratio Lower Upper

99 100

42 31.0 30.8 46.2

71 48.3 34.9 52.3

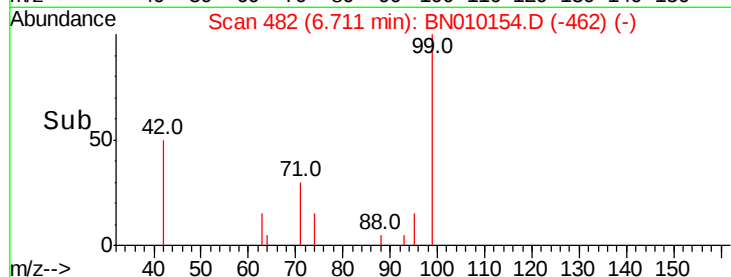


Abundance Ion 99.00 (98.70 to 99.70): BN009774.D (-468) (-)

Ion 42.00 (41.70 to 42.70): BN009774.D (-468) (-)

Ion 71.00 (70.70 to 71.70): BN009774.D (-468) (-)

Time-->

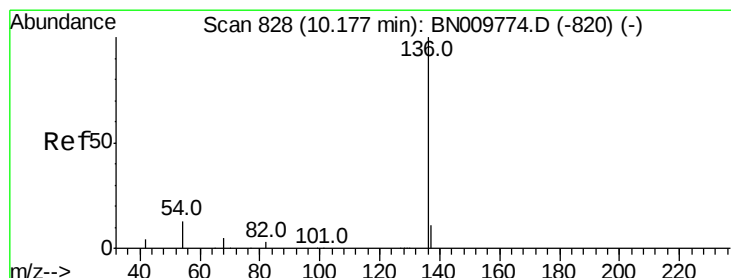


Abundance Ion 99.00 (98.70 to 99.70): BN010154.D (-462) (-)

Ion 42.00 (41.70 to 42.70): BN010154.D (-462) (-)

Ion 71.00 (70.70 to 71.70): BN010154.D (-462) (-)

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 827

Delta R.T. -0.01 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Tgt Ion: 136 Resp: 2175

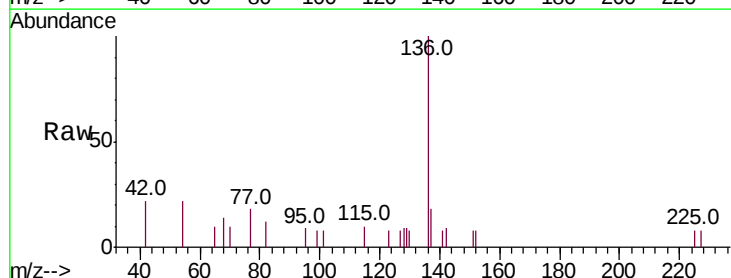
Ion Ratio Lower Upper

136 100

137 18.3 11.3 16.9#

54 22.2 13.4 20.2#

68 14.2 7.0 10.4#



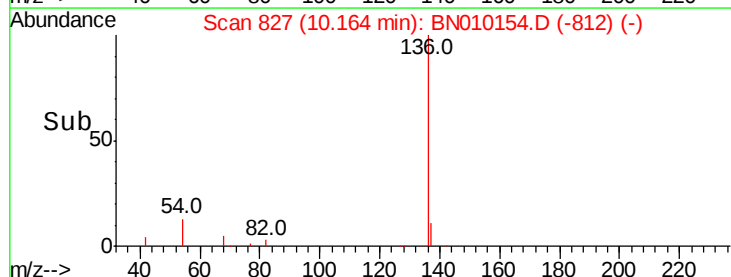
Abundance Ion 136.00 (135.70 to 136.70): BN009774.D (-820) (-)

Ion 137.00 (136.70 to 137.70): BN009774.D (-820) (-)

Ion 54.00 (53.70 to 54.70): BN009774.D (-820) (-)

Ion 68.00 (67.70 to 68.70): BN009774.D (-820) (-)

Time-->



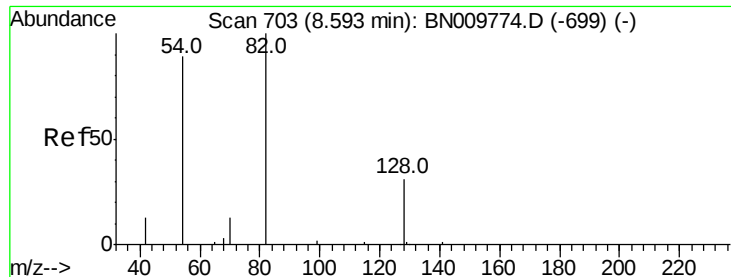
Abundance Ion 136.00 (135.70 to 136.70): BN010154.D (-812) (-)

Ion 137.00 (136.70 to 137.70): BN010154.D (-812) (-)

Ion 54.00 (53.70 to 54.70): BN010154.D (-812) (-)

Ion 68.00 (67.70 to 68.70): BN010154.D (-812) (-)

Time-->



#8

Nitrobenzene-d5

Concen: 0.283 ng

RT: 8.67 min Scan# 709

Delta R.T. 0.08 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

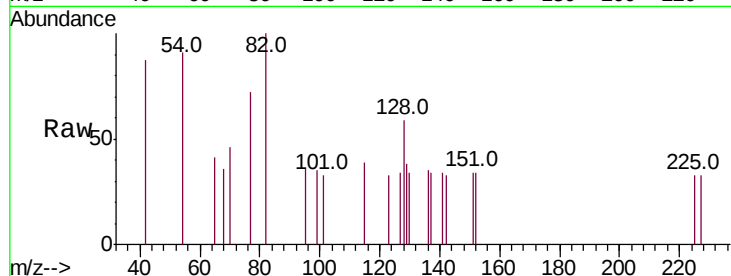
Tot Ion: 82 Resp: 513

Ion Ratio Lower Upper

82 100

128 58.7 32.5 48.7#

54 91.3 73.5 110.3



Abundance Ion 82.00 (81.70 to 82.70): BN009774.D (-699) (-)

Ion 128.00 (127.70 to 128.70): BN009774.D (-699) (-)

Ion 54.00 (53.70 to 54.70): BN009774.D (-699) (-)

8.67

150

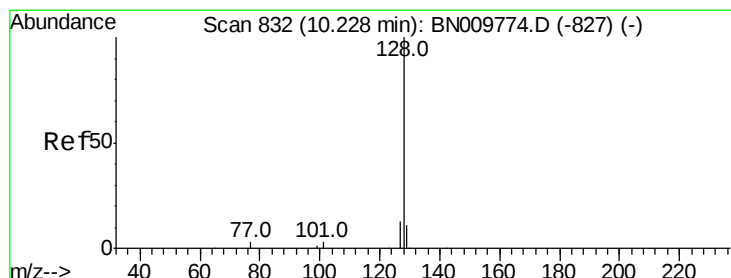
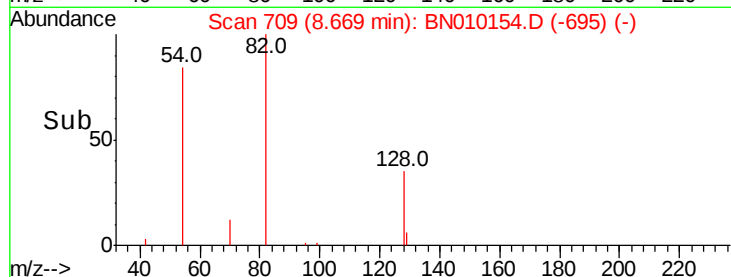
100

50

0

8.50 8.60 8.70 8.80

Time-->



#9

Naphthalene

Concen: 0.028 ng

RT: 10.21 min Scan# 831

Delta R.T. -0.01 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

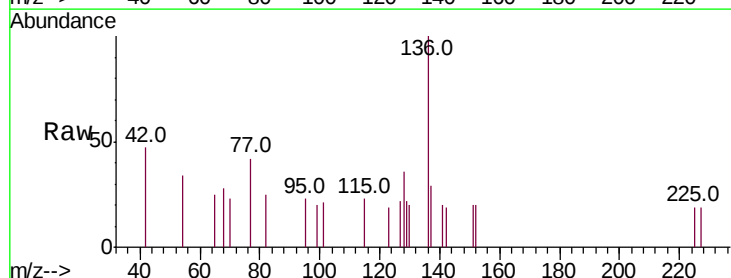
Tgt Ion: 128 Resp: 165

Ion Ratio Lower Upper

128 100

129 60.5 11.1 16.7#

127 60.5 12.6 19.0#



Abundance Ion 128.00 (127.70 to 128.70): BN009774.D (-827) (-)

Ion 129.00 (128.70 to 129.70): BN009774.D (-827) (-)

Ion 127.00 (126.70 to 127.70): BN009774.D (-827) (-)

10.21

100

80

60

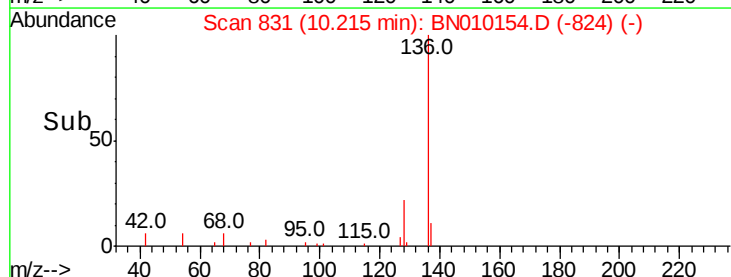
40

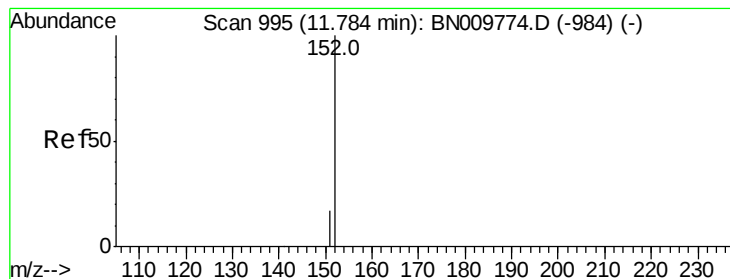
20

0

10.20 10.40

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.368 ng

RT: 11.76 min Scan# 990

Delta R.T. -0.02 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

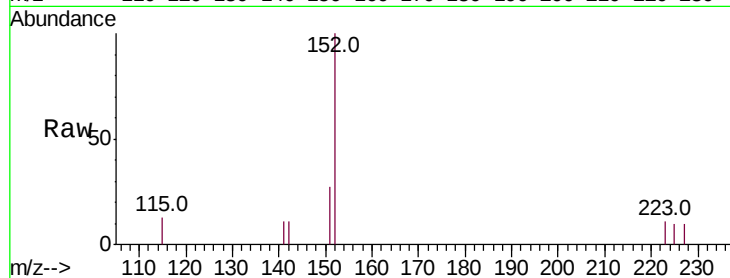
ClientSampled :

Tot Ion:152 Resp: 1550

Ion Ratio Lower Upper

152 100

151 17.1 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.76

400

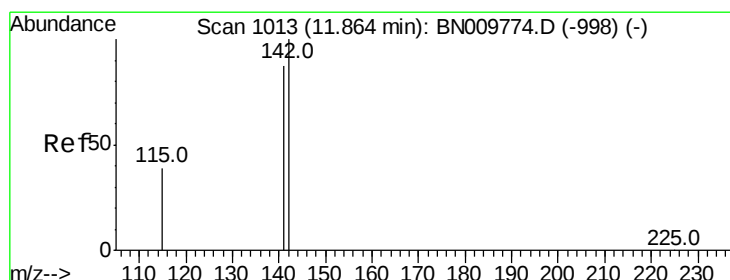
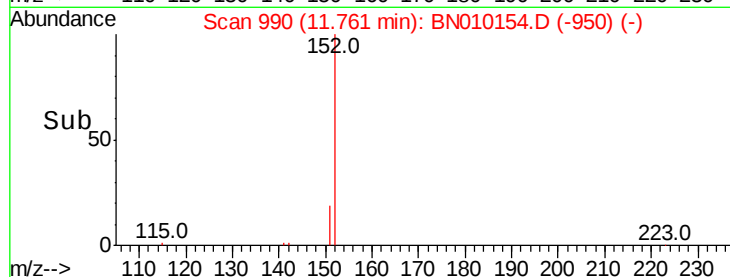
300

200

100

0

Time--> 11.60 11.80



#12

2-Methylnaphthalene

Concen: 0.020 ng

RT: 11.84 min Scan# 1008

Delta R.T. -0.02 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

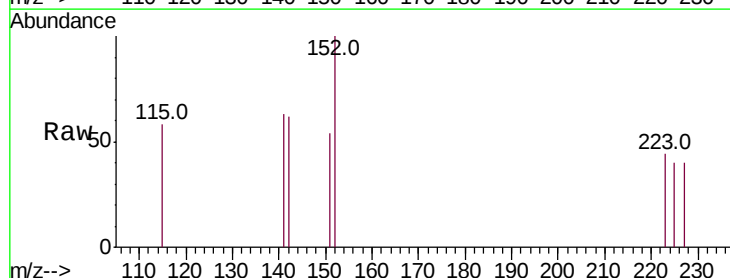
Tgt Ion:142 Resp: 83

Ion Ratio Lower Upper

142 100

141 102.9 69.8 104.6

115 94.2 34.6 52.0#



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

11.84

80

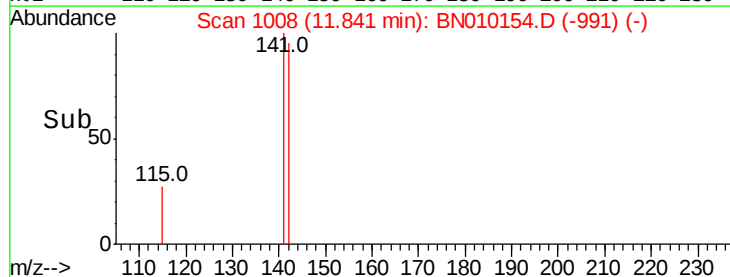
60

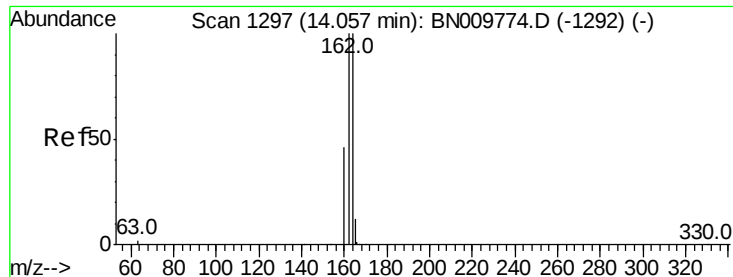
40

20

0

Time--> 11.80 11.90





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.01 min Scan# 1293

Delta R.T. -0.04 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

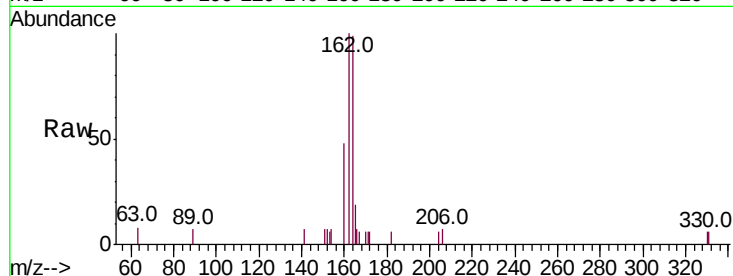
Tot Ion:164 Resp: 1569

Ion Ratio Lower Upper

164 100

162 100.8 79.9 119.9

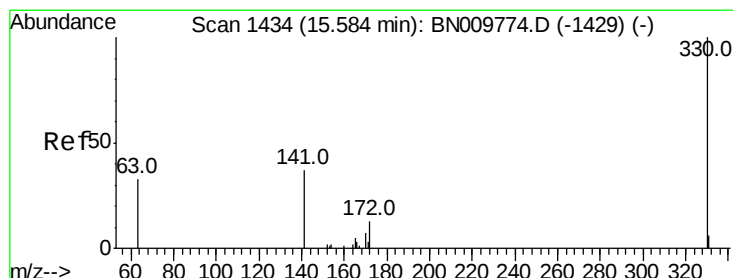
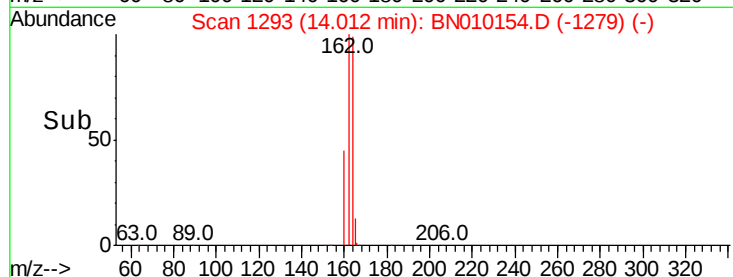
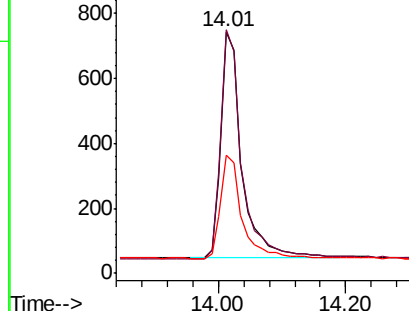
160 48.9 38.2 57.2



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: 0.496 ng

RT: 15.57 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

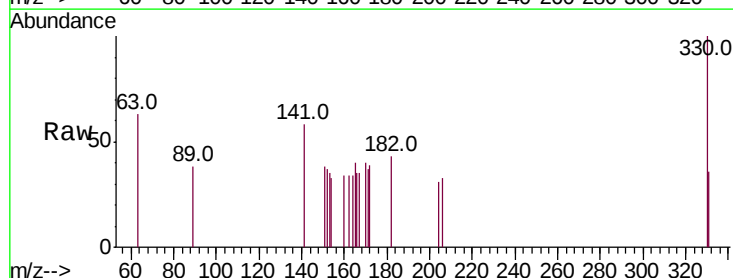
Tgt Ion:330 Resp: 300

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

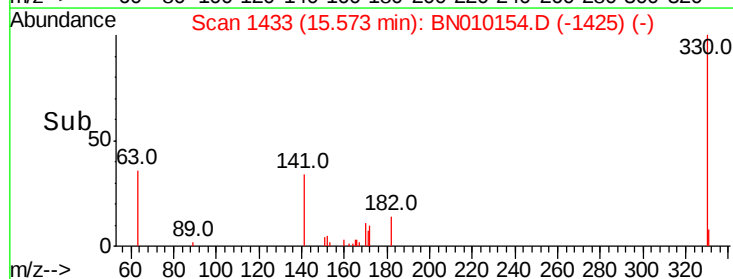
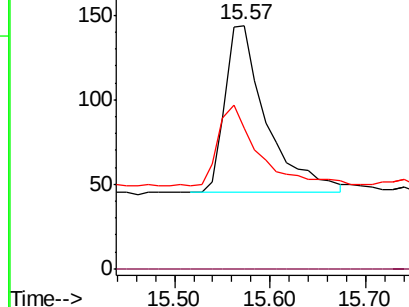
141 46.7 36.8 55.2

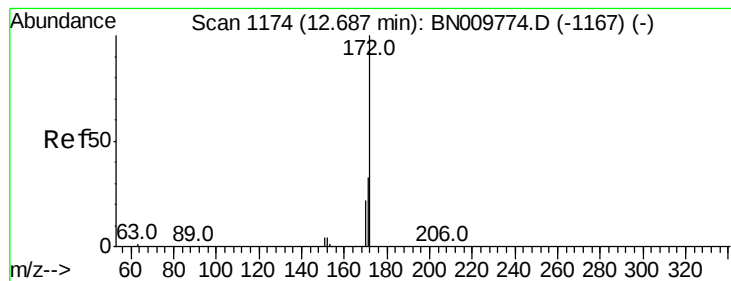


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

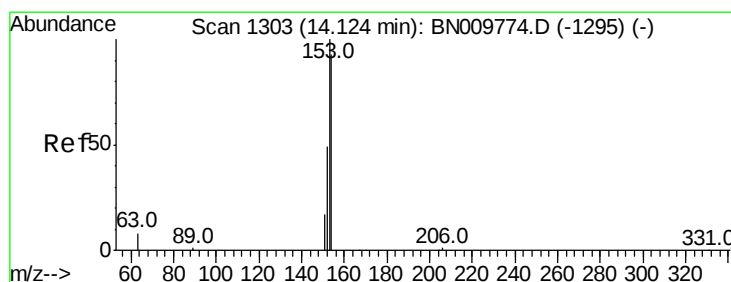
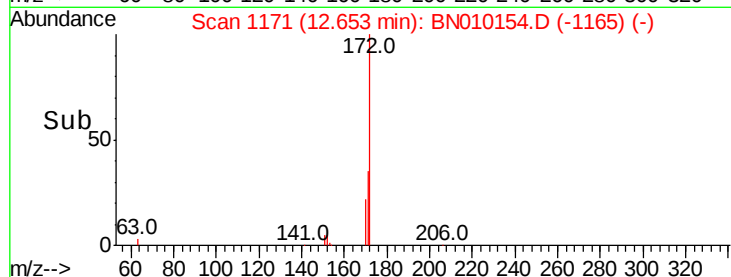
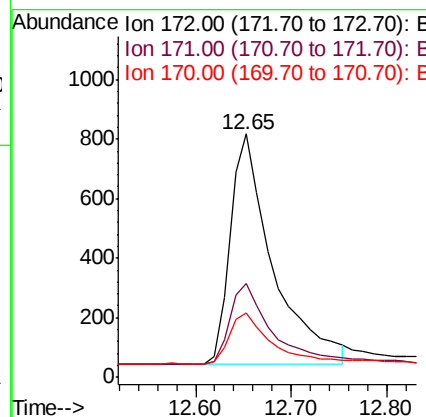
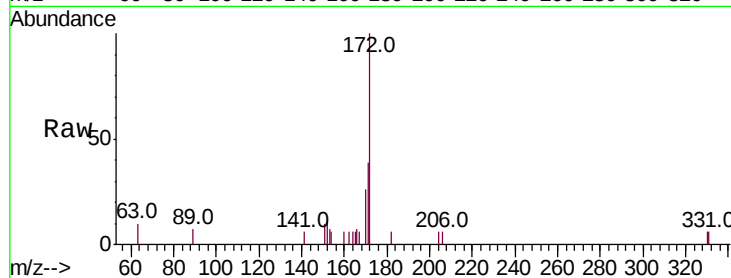




#15  
2-Fluorobiphenyl  
Concen: 0.401 ng  
RT: 12.65 min Scan# 1171  
Delta R.T. -0.03 min  
Lab File: BN010154.D  
Acq: 09 Mar 2020 20:31

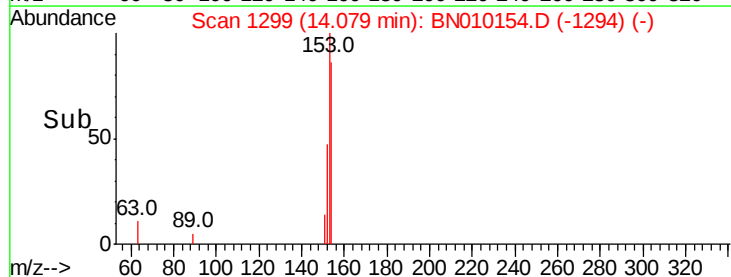
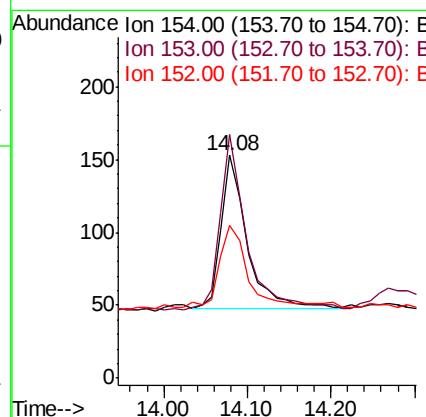
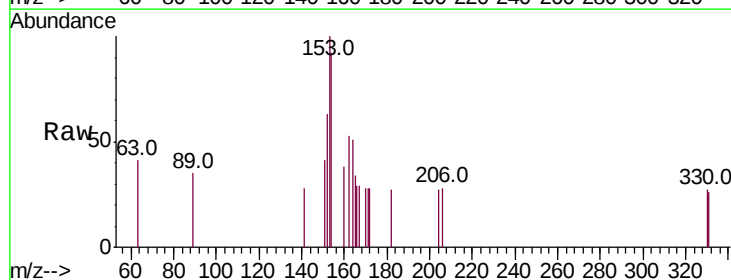
Instrument :  
BNA\_N  
ClientSampleId :

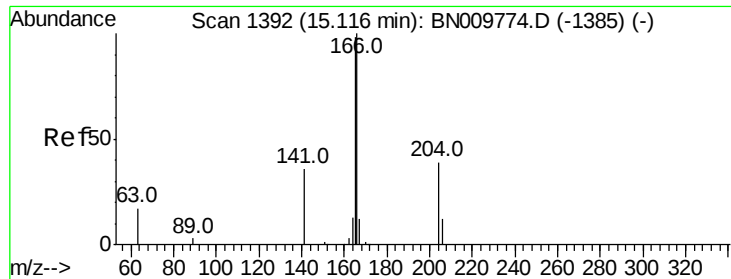
Tot Ion:172 Resp: 2376  
Ion Ratio Lower Upper  
172 100  
171 38.8 28.7 43.1  
170 26.4 20.1 30.1



#17  
Acenaphthene  
Concen: 0.047 ng  
RT: 14.08 min Scan# 1299  
Delta R.T. -0.04 min  
Lab File: BN010154.D  
Acq: 09 Mar 2020 20:31

Tgt Ion:154 Resp: 223  
Ion Ratio Lower Upper  
154 100  
153 117.9 88.9 133.3  
152 56.1 44.2 66.2





#18

Fluorene

Concen: 0.069 ng

RT: 15.10 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampled :

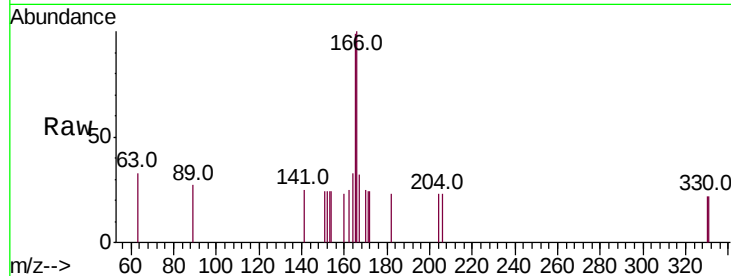
Tot Ion:166 Resp: 428

Ion Ratio Lower Upper

166 100

165 101.6 77.2 115.8

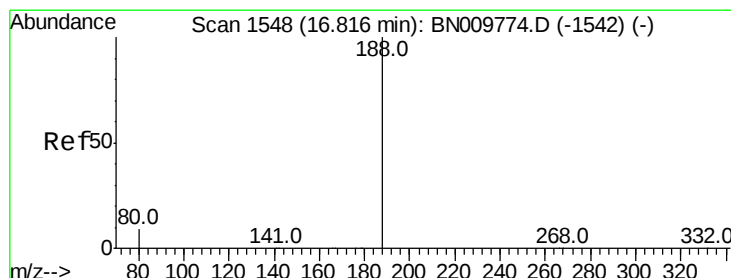
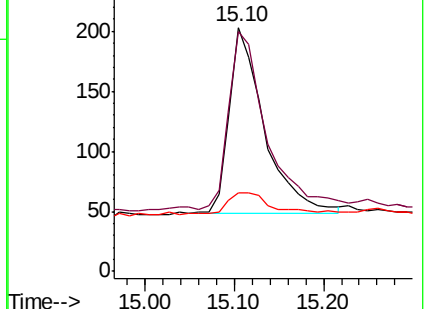
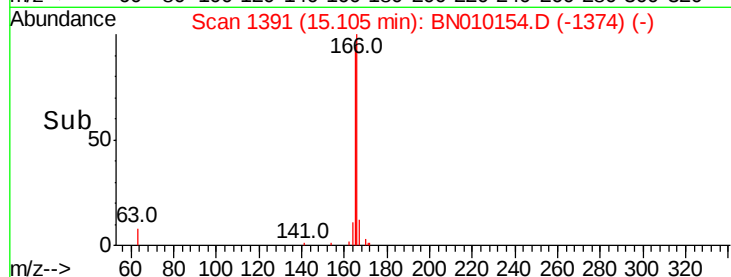
167 14.5 10.5 15.7



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: 16.79 min Scan# 1546

Delta R.T. -0.02 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

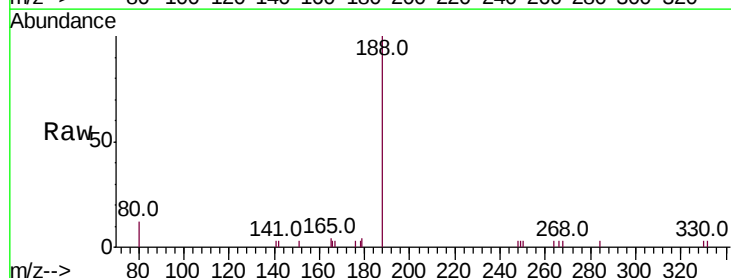
Tgt Ion:188 Resp: 3246

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

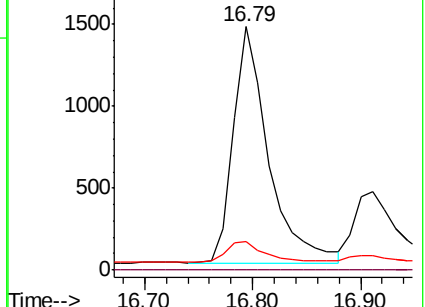
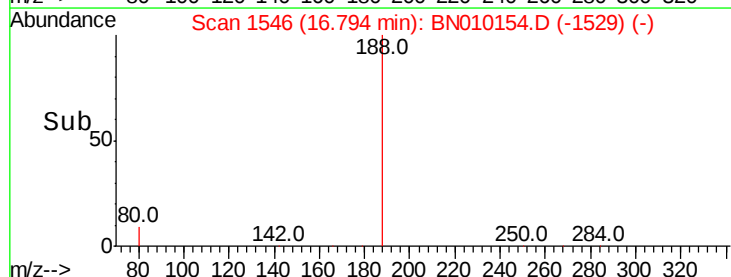
80 12.0 8.3 12.5

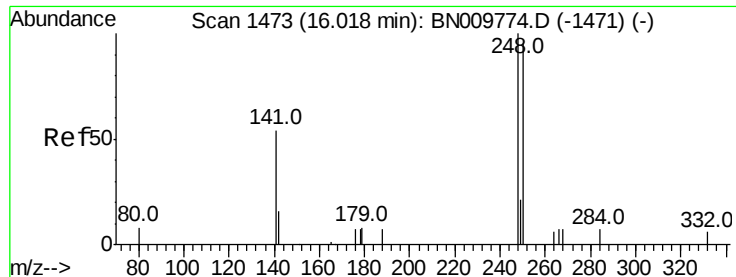


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#20

4-Bromophenyl-phenylether

Concen: Below Cal

RT: 16.04 min Scan# 1475

Delta R.T. 0.02 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

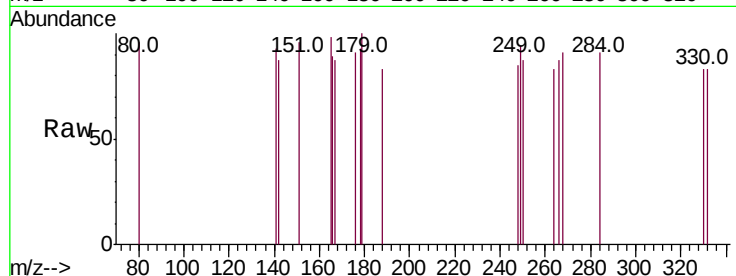
Tot Ion:248 Resp: 146

Ion Ratio Lower Upper

248 100

250 102.2 76.2 114.4

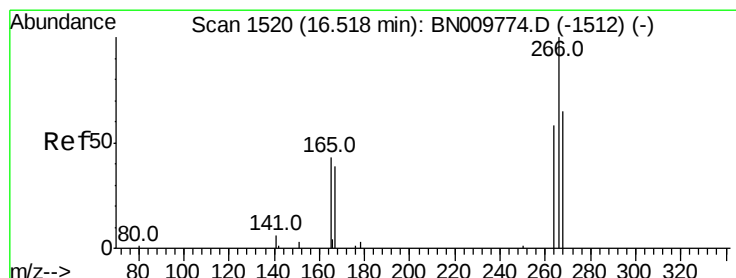
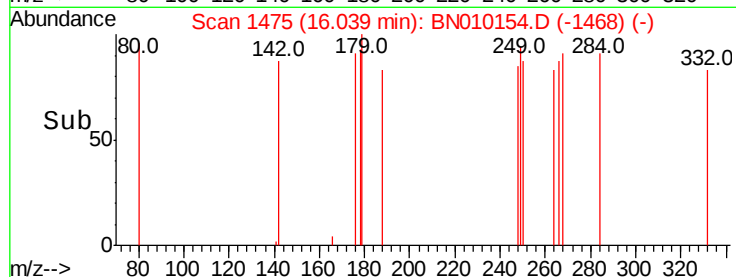
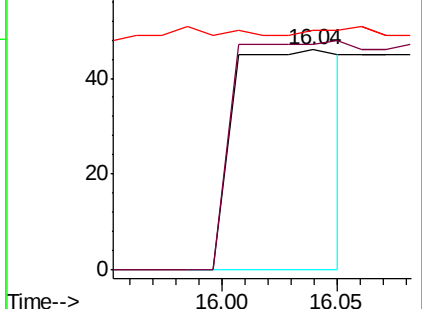
141 108.7 57.8 86.6#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#22

Pentachlorophenol

Concen: 0.186 ng

RT: 16.52 min Scan# 1520

Delta R.T. -0.00 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Tgt Ion:266 Resp: 5

Ion Ratio Lower Upper

266 100

264 92.0 58.1 87.1#

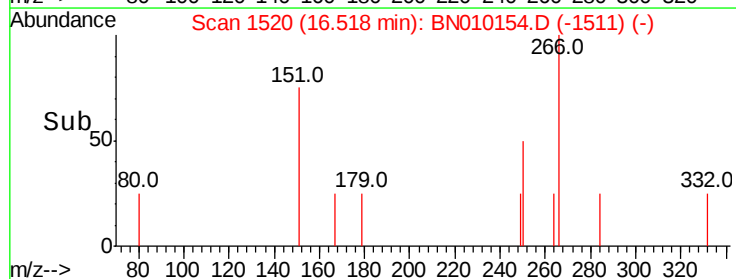
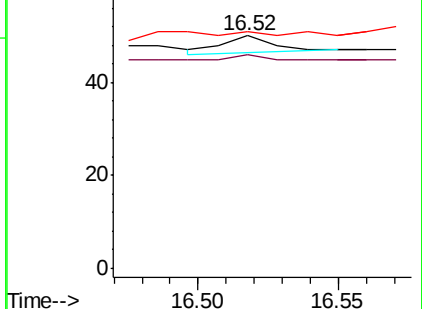
268 102.0 65.7 98.5#

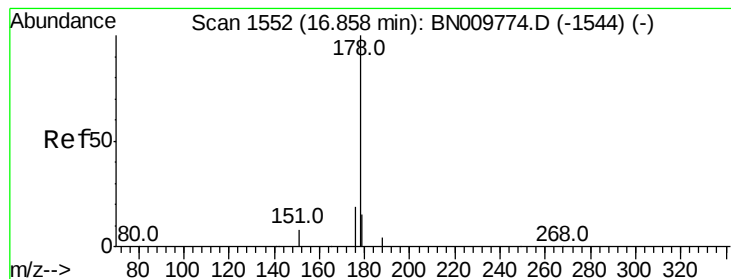


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.128 ng

RT: 16.84 min Scan# 1550

Delta R.T. -0.02 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

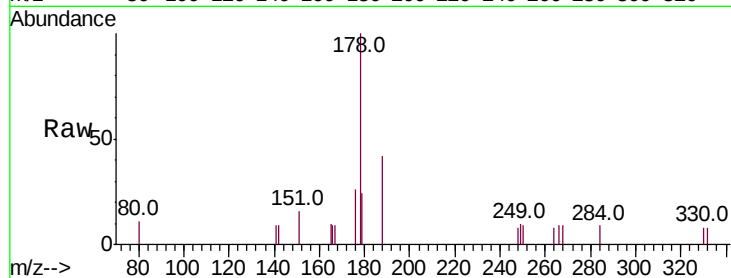
Tot Ion:178 Resp: 1233

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

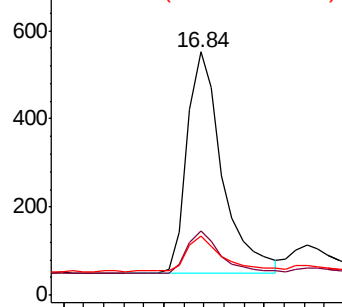
179 16.4 12.4 18.6



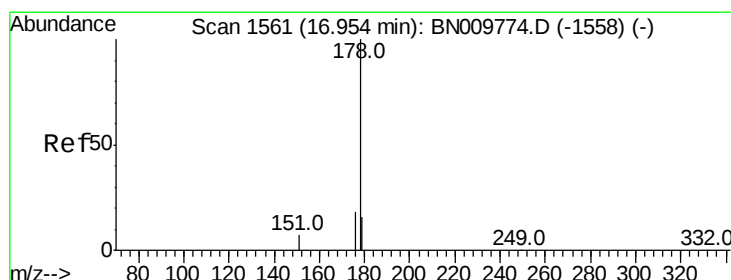
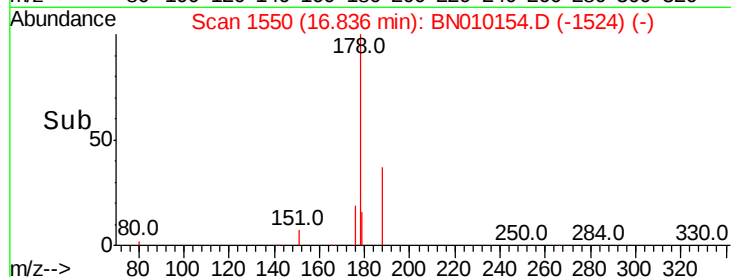
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 16.70 16.80 16.90



#24

Anthracene

Concen: 0.021 ng

RT: 16.94 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

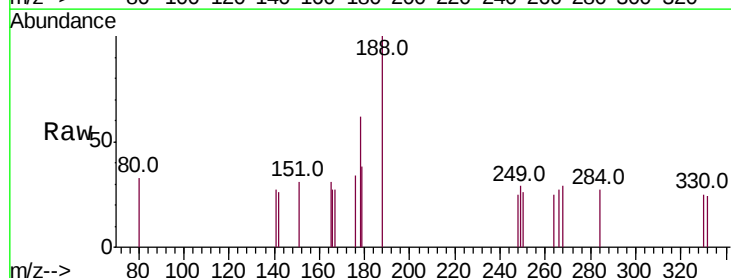
Tgt Ion:178 Resp: 169

Ion Ratio Lower Upper

178 100

176 16.0 14.3 21.5

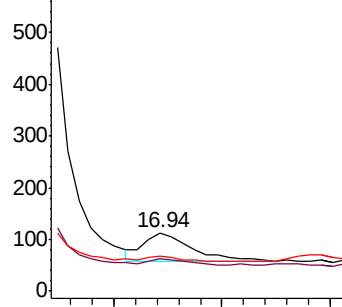
179 15.4 12.4 18.6



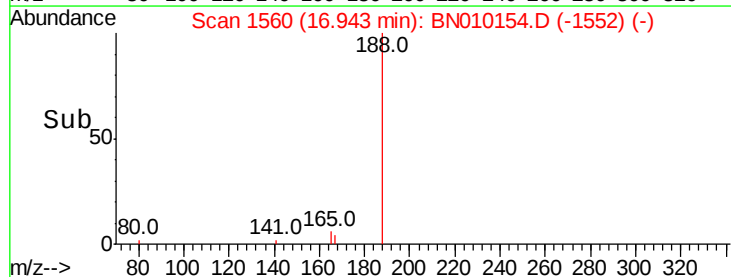
Abundance Ion 178.00 (177.70 to 178.70): E

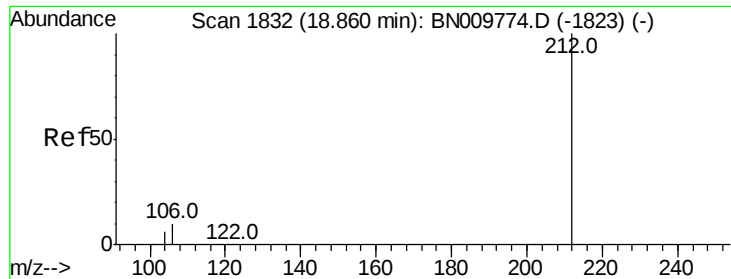
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 16.90 17.00





#25

Fluoranthene-d10

Concen: 0.371 ng

RT: 18.83 min Scan# 1826

Delta R.T. -0.03 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

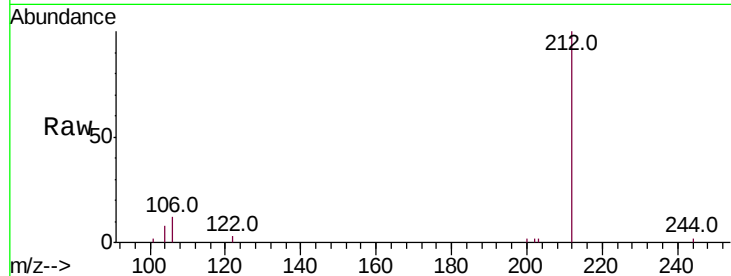
Tot Ion:212 Resp: 4165

Ion Ratio Lower Upper

212 100

106 10.4 8.4 12.6

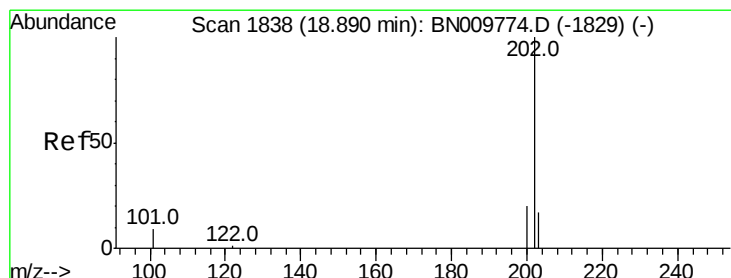
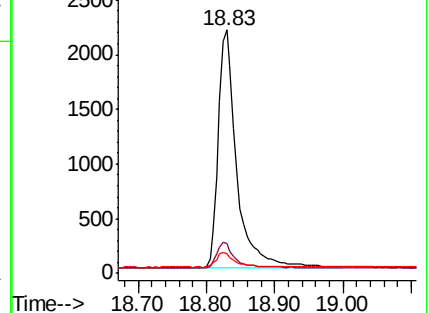
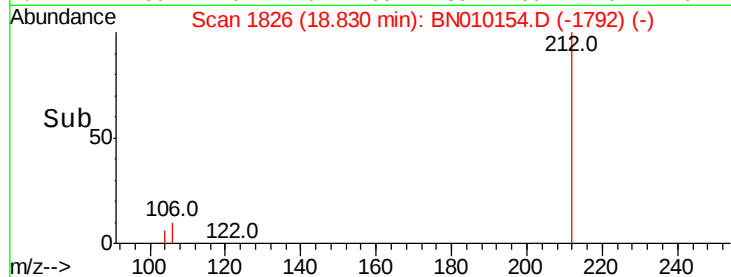
104 6.1 4.8 7.2



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: 0.020 ng

RT: 18.86 min Scan# 1832

Delta R.T. -0.03 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

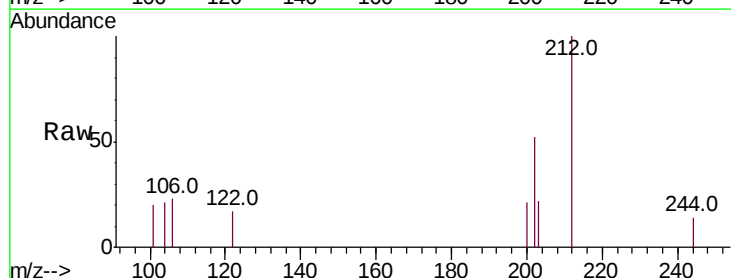
Tgt Ion:202 Resp: 234

Ion Ratio Lower Upper

202 100

101 18.8 7.1 10.7#

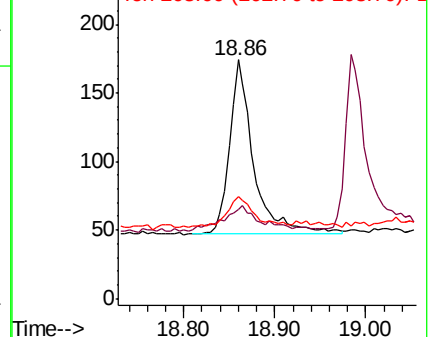
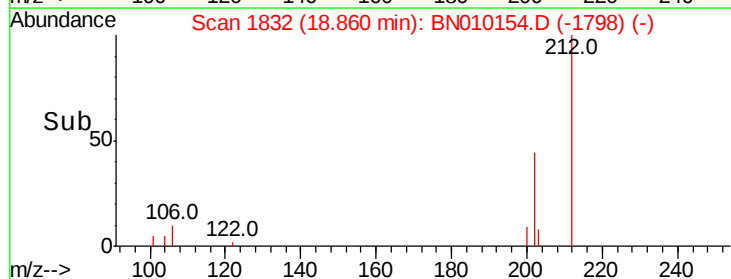
203 20.5 13.8 20.6

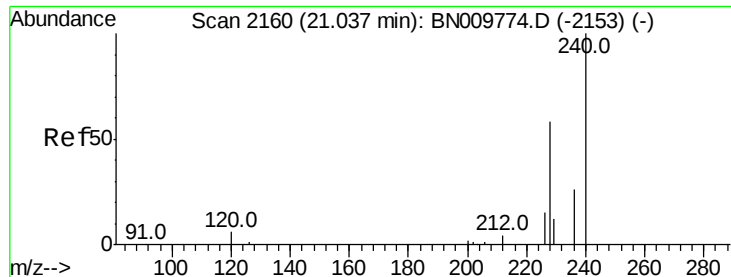


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.00 min Scan# 2157

Delta R.T. -0.03 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

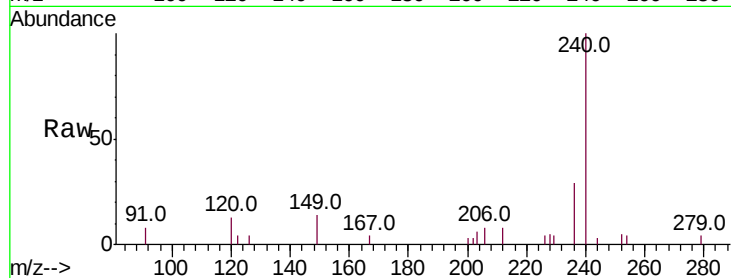
Tot Ion:240 Resp: 3277

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

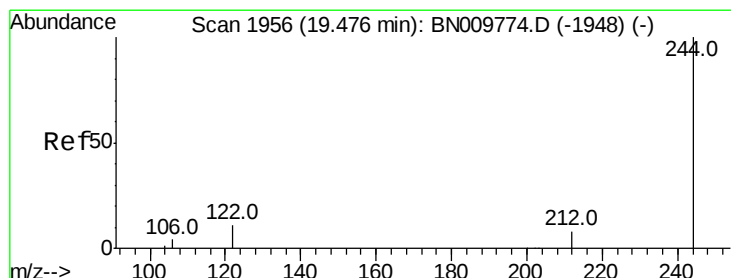
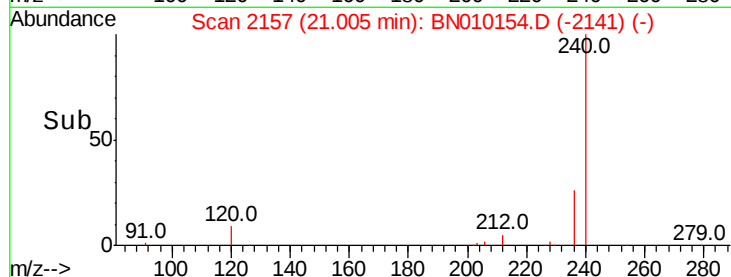
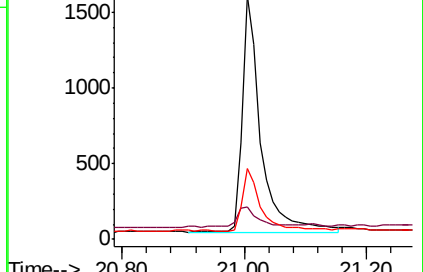
236 29.0 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#29

Terphenyl-d14

Concen: 0.520 ng

RT: 19.43 min Scan# 1947

Delta R.T. -0.05 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

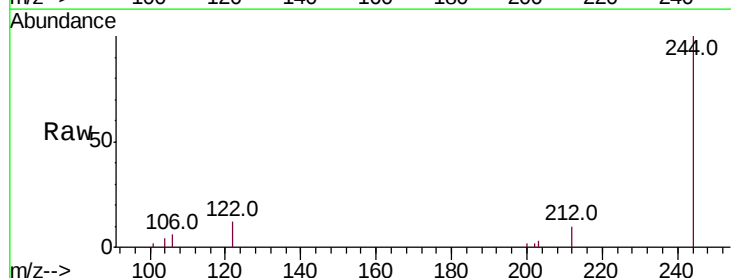
Tgt Ion:244 Resp: 4070

Ion Ratio Lower Upper

244 100

212 10.5 8.0 12.0

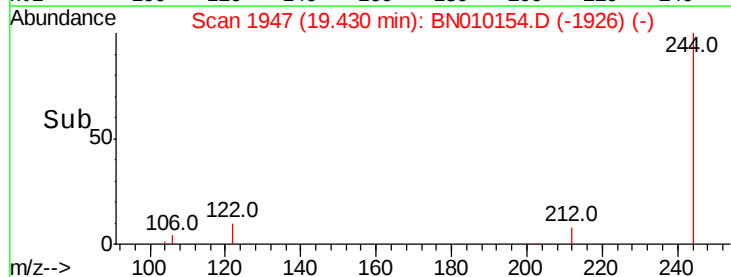
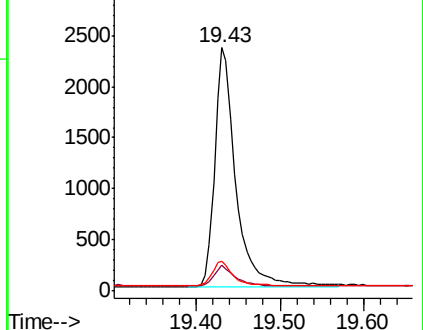
122 12.4 10.0 15.0

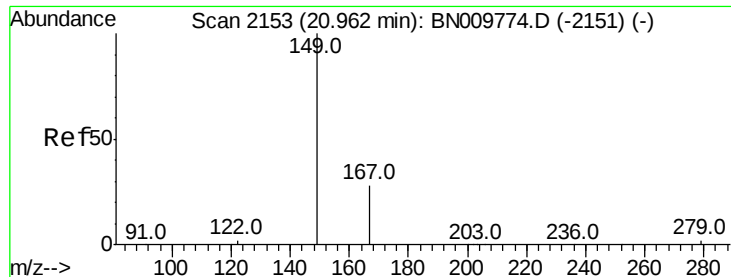


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.087 ng

RT: 20.92 min Scan# 2149

Delta R.T. -0.04 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

Instrument :

BNA\_N

ClientSampleId :

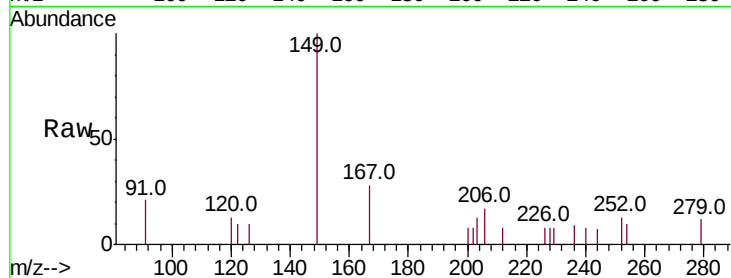
Tot Ion:149 Resp: 462

Ion Ratio Lower Upper

149 100

167 27.5 22.7 34.1

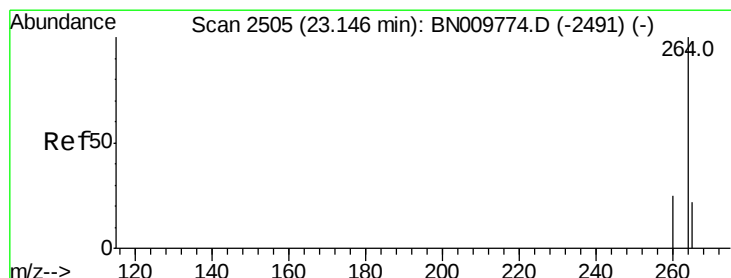
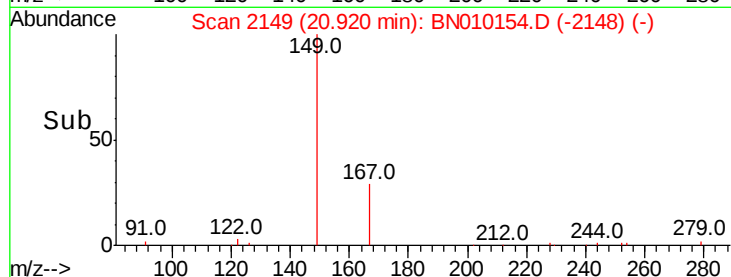
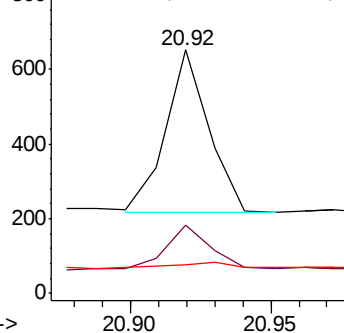
279 4.3 3.1 4.7



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.10 min Scan# 2492

Delta R.T. -0.04 min

Lab File: BN010154.D

Acq: 09 Mar 2020 20:31

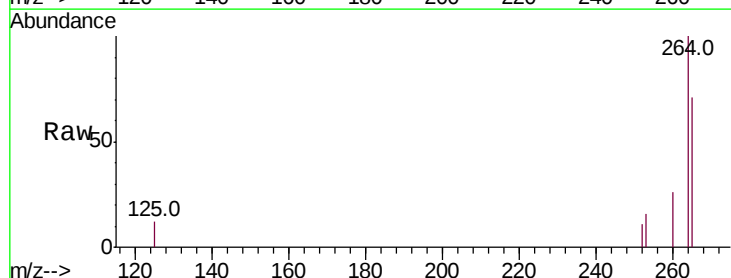
Tgt Ion:264 Resp: 3288

Ion Ratio Lower Upper

264 100

260 26.0 21.1 31.7

265 71.4 57.5 86.3



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

