

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111820\  
 Data File : BN012635.D  
 Acq On : 19 Nov 2020 16:33  
 Operator : CG/JU  
 Sample : L4753-15  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBGH6

Manual Integrations  
 APPROVED

mohammad  
 11/20/2020 11:30:58 AM

Quant Time: Nov 19 17:18:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN102220.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 18 14:31:59 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.44  | 152  | 133053   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.22 | 136  | 567889   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.10 | 164  | 375207   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.86 | 188  | 847800   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.07 | 240  | 891598   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.19 | 264  | 899399   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.98  | 96  | 17699   | 4.74  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.63  | 99  | 86510   | 7.14  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.79  | 67  | 261613  | 36.69 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 272436  | 28.78 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 172988  | 17.49 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.59  | 128 | 172664  | 37.05 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.31  | 143 | 197837  | 38.22 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.84  | 165 | 324364  | 32.98 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.36 | 131 | 19657   | 2.02  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.52 | 166 | 1271886 | 41.51 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.79 | 160 | 1483732 | 40.56 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.32 | 143 | 39902   | 6.96  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.10 | 176 | 1084298 | 40.22 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.23 | 200 | 239422  | 41.40 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.95 | 188 | 1858394 | 43.15 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.26 | 212 | 2049648 | 43.95 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.06 | 264 | 2206648 | 44.89 | ng/ul | 0.00 |

## Target Compounds

|                               |       |     |           |         | Ovalue |    |
|-------------------------------|-------|-----|-----------|---------|--------|----|
| 28) Naphthalene               | 10.27 | 128 | 20735053m | 631.604 | ng/ul  |    |
| 34) 2-Methylnaphthalene       | 11.89 | 142 | 2355755   | 102.817 | ng/ul  | 96 |
| 41) 1,1'-Biphenyl             | 12.92 | 154 | 320838    | 10.317  | ng/ul  | 97 |
| 45) Dimethylphthalate         | 13.57 | 163 | 148137    | 4.799   | ng/ul  | 97 |
| 48) Acenaphthylene            | 13.82 | 152 | 148558    | 4.055   | ng/ul  | 98 |
| 50) Acenaphthene              | 14.17 | 153 | 2965285   | 110.840 | ng/ul  | 98 |
| 54) Dibenzofuran              | 14.50 | 168 | 1231526   | 33.206  | ng/ul  | 93 |
| 56) 2,3,4,6-Tetrachlorophenol | 14.73 | 232 | 15573     | 2.221   | ng/ul# | 92 |
| 59) Fluorene                  | 15.16 | 166 | 1184234   | 38.214  | ng/ul  | 94 |
| 69) Pentachlorophenol         | 16.51 | 266 | 58375     | 8.719   | ng/ul  | 99 |
| 70) Phenanthrene              | 16.90 | 178 | 1127233   | 21.626  | ng/ul  | 98 |
| 72) Anthracene                | 16.99 | 178 | 63238     | 1.197   | ng/ul  | 98 |
| 75) Carbazole                 | 17.27 | 167 | 3446679   | 76.426  | ng/ul  | 98 |
| 77) Fluoranthene              | 18.92 | 202 | 76357     | 1.274   | ng/ul  | 99 |

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

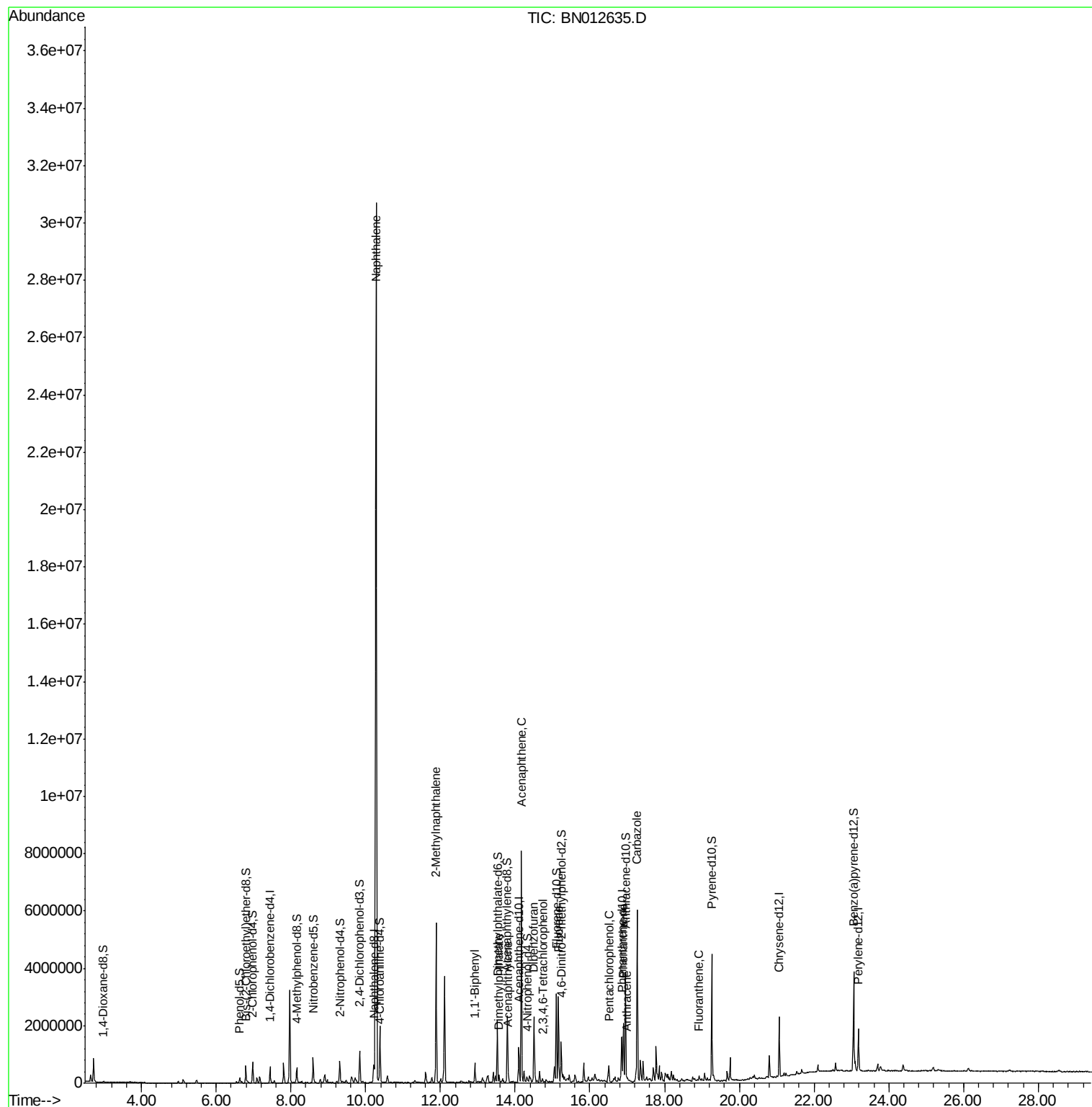
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111820\  
Data File : BN012635.D  
Acq On : 19 Nov 2020 16:33  
Operator : CG/JU  
Sample : L4753-15  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

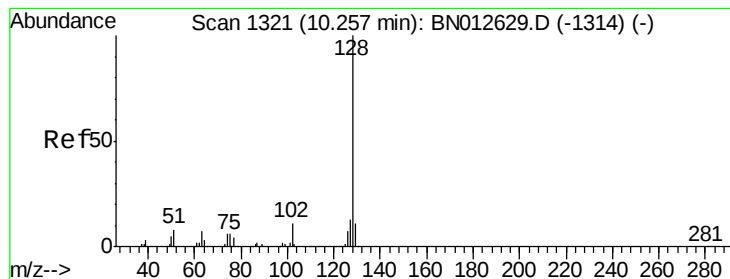
Instrument :  
BNA\_N  
ClientSampleId :  
DBGH6

Quant Time: Nov 19 17:18:39 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN102220.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Nov 18 14:31:59 2020  
Response via : Initial Calibration

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#28

Naphthalene

Concen: 631.604 ng/ul m

RT: 10.27 min Scan# 1323

Delta R.T. 0.01 min

Lab File: BN012635.D

Acq: 19 Nov 2020 16:33

Instrument :

BNA\_N

ClientSampleId :

DBGH6

Tot Ion:128 Resp:20735053

Ion Ratio Lower Upper

128 100

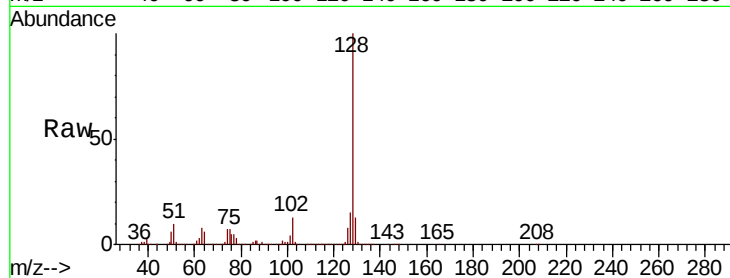
129 12.8 8.6 12.8

127 14.7 11.6 17.4

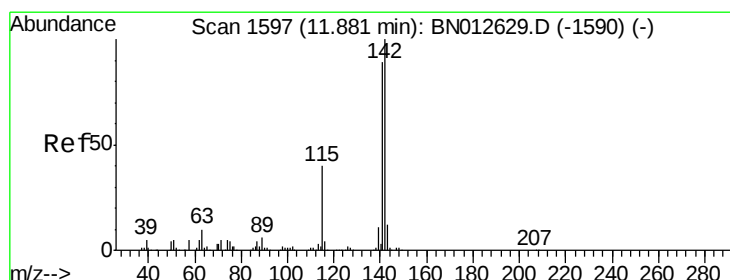
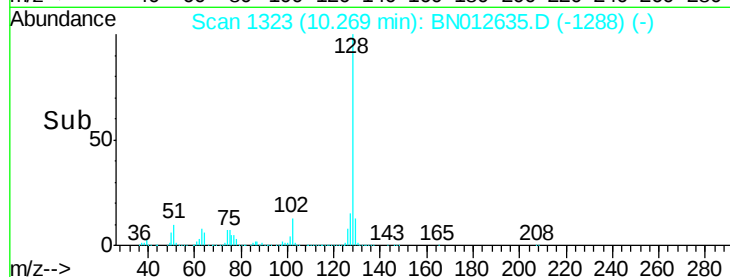
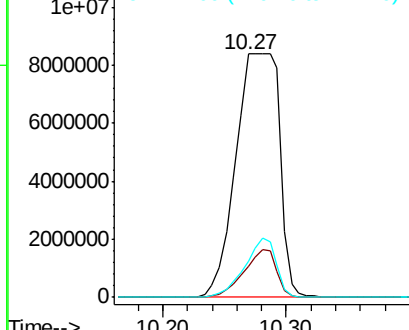
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 102.817 ng/ul

RT: 11.89 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BN012635.D

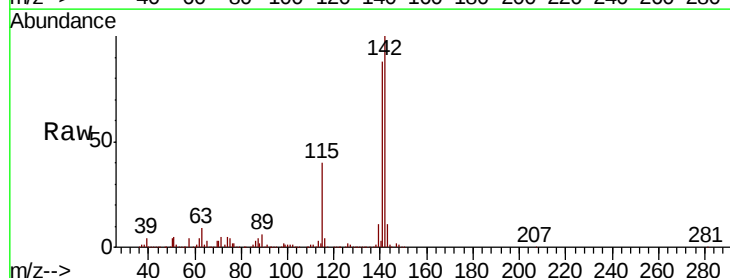
Acq: 19 Nov 2020 16:33

Tgt Ion:142 Resp: 2355755

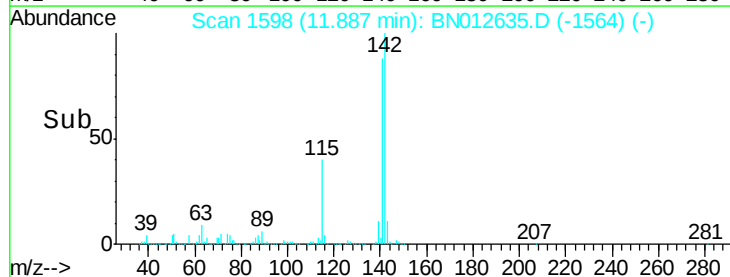
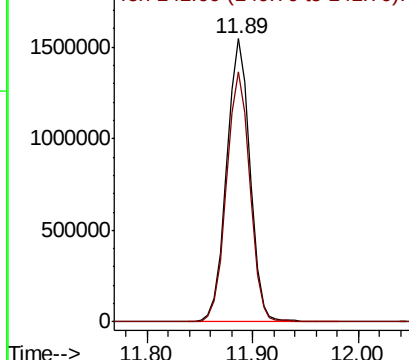
Ion Ratio Lower Upper

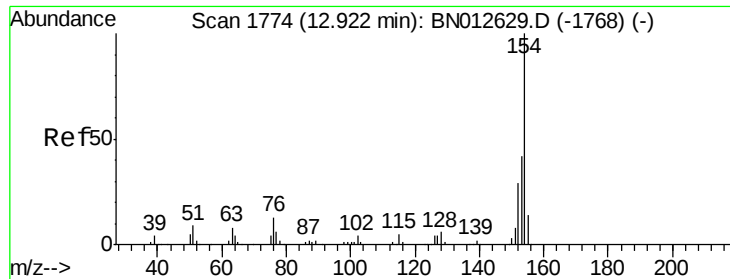
142 100

141 88.4 73.8 110.8



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





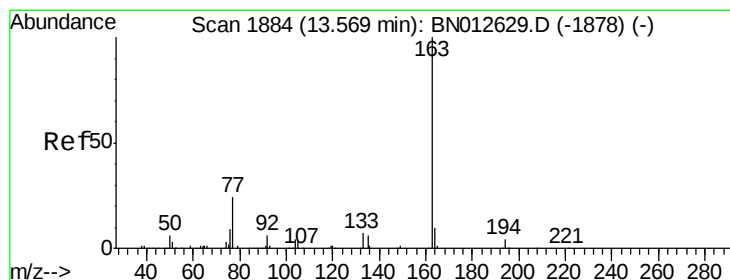
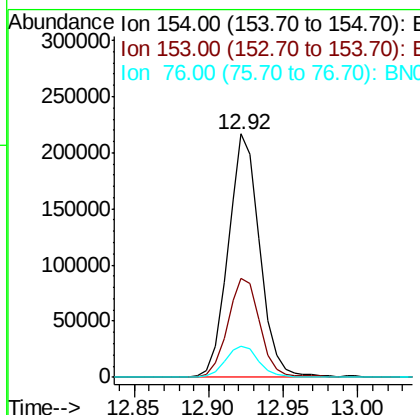
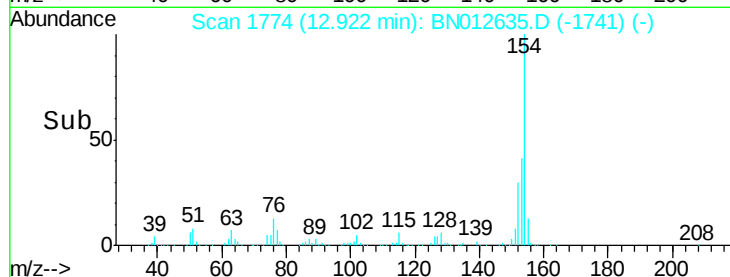
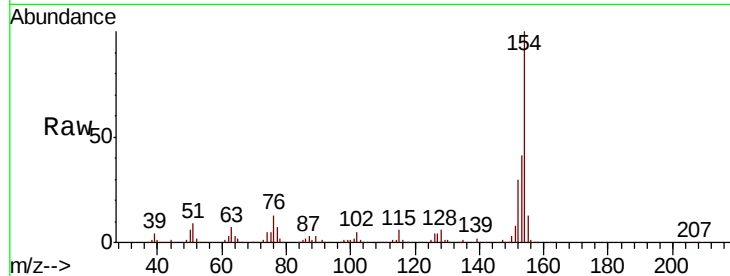
#41  
 1,1'-Biphenyl  
 Concen: 10.317 ng/ul  
 RT: 12.92 min Scan# 1774  
 Delta R.T. -0.01 min  
 Lab File: BN012635.D  
 Acq: 19 Nov 2020 16:33

Instrument :  
 BNA\_N  
 ClientSampled :  
 DBGH6

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 40.9  | 31.4 | 47.0  |       |
| 76      | 12.9  | 9.3  | 13.9  |       |

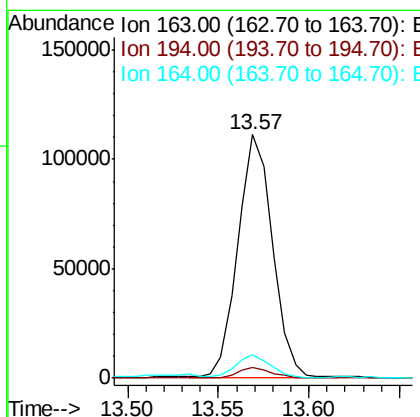
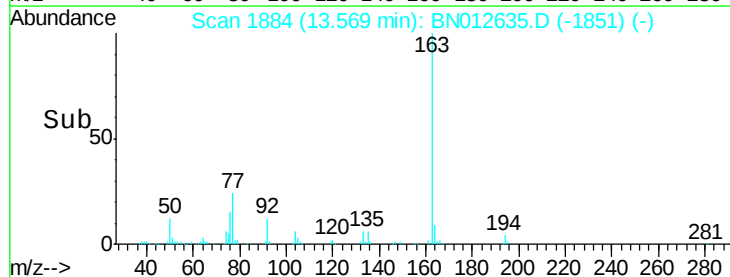
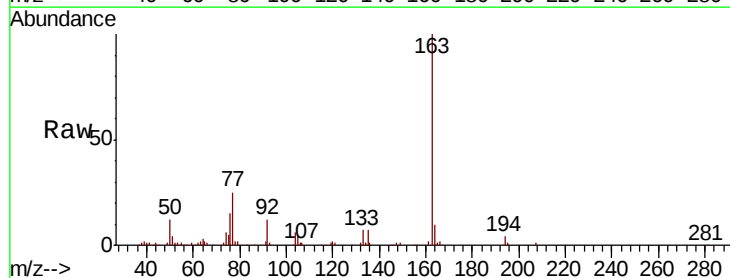
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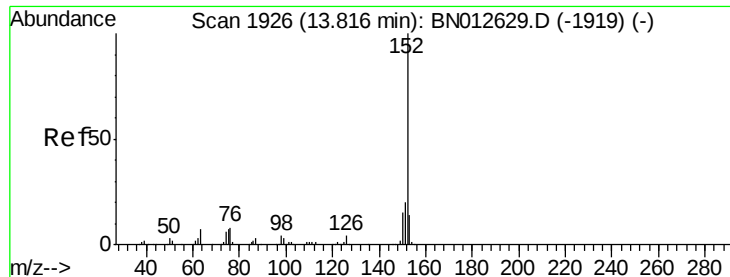
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#45  
 Dimethylphthalate  
 Concen: 4.799 ng/ul  
 RT: 13.57 min Scan# 1884  
 Delta R.T. -0.01 min  
 Lab File: BN012635.D  
 Acq: 19 Nov 2020 16:33

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 4.2   | 3.0  | 4.4   |       |
| 164     | 9.6   | 8.6  | 13.0  |       |





#48

Acenaphthylene

Concen: 4.055 ng/ul

RT: 13.82 min Scan# 1926

Delta R.T. -0.01 min

Lab File: BN012635.D

Acq: 19 Nov 2020 16:33

Instrument :

BNA\_N

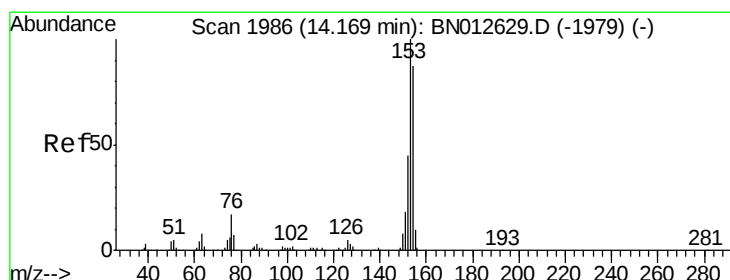
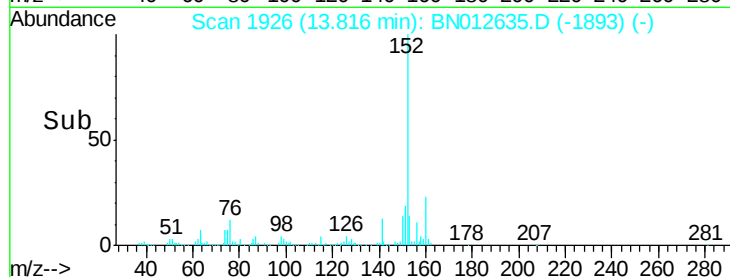
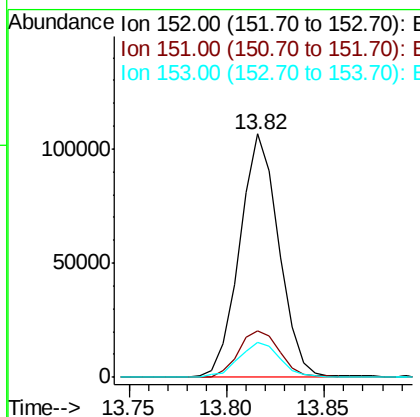
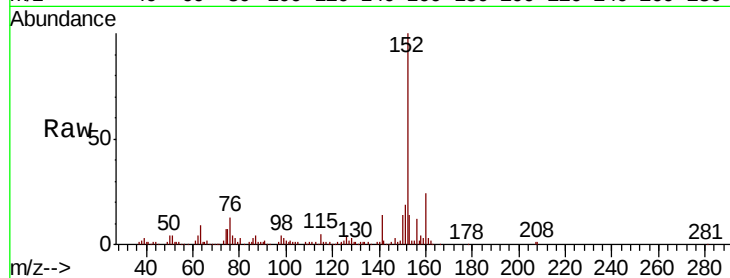
ClientSampleId :

DBGH6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 148558 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 18.9  | 15.5  | 23.3   |
| 153       | 14.5  | 10.5  | 15.7   |

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#50

Acenaphthene

Concen: 110.840 ng/ul

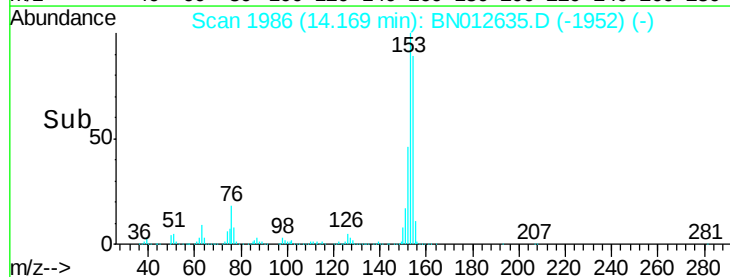
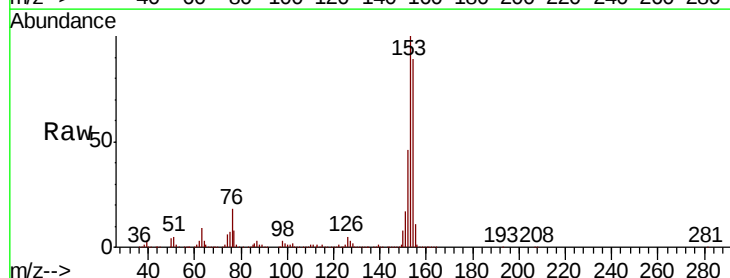
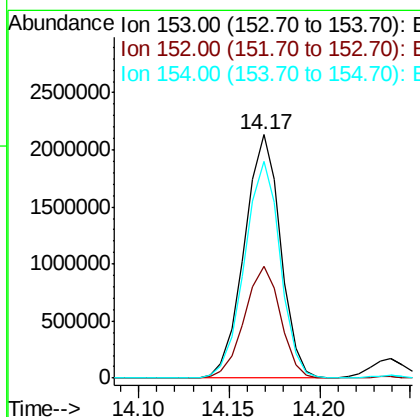
RT: 14.17 min Scan# 1986

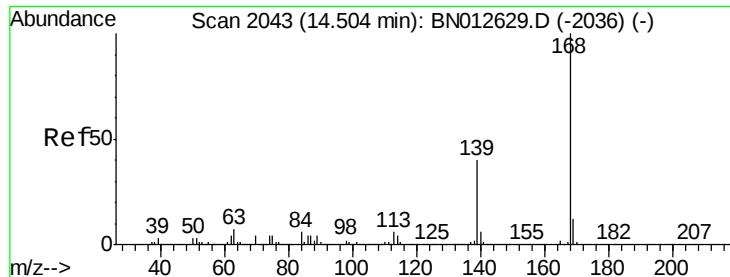
Delta R.T. 0.00 min

Lab File: BN012635.D

Acq: 19 Nov 2020 16:33

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 153   | Resp: | 2965285 |
| Ion Ratio | Lower | Upper |         |
| 153       | 100   |       |         |
| 152       | 45.9  | 37.1  | 55.7    |
| 154       | 88.9  | 69.7  | 104.5   |





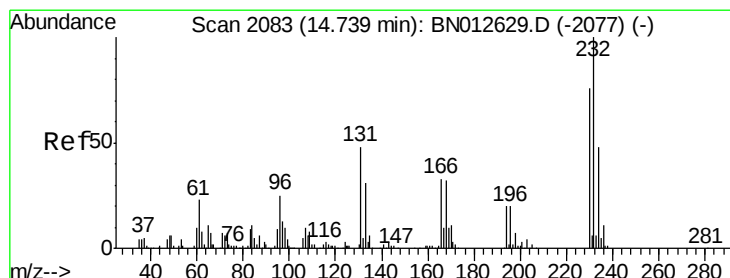
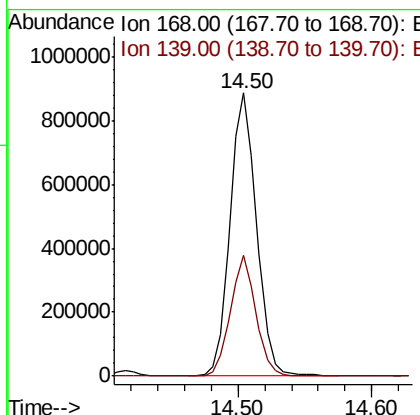
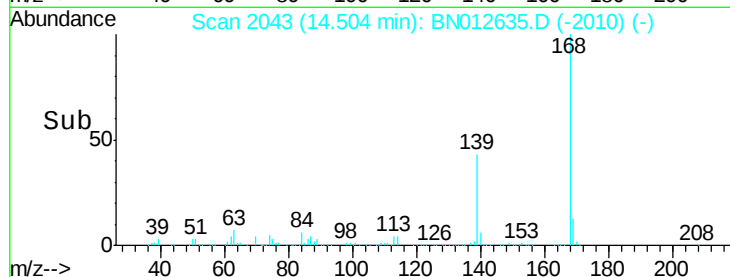
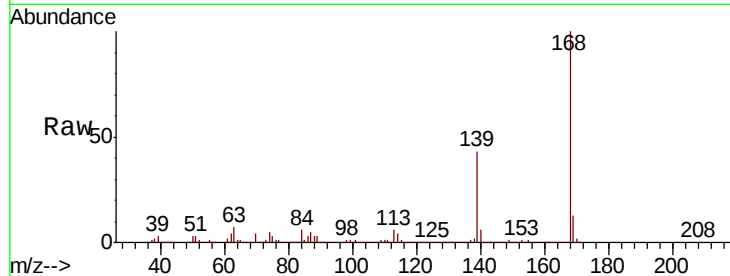
#54  
Dibenzofuran  
Concen: 33.206 ng/ul  
RT: 14.50 min Scan# 2043  
Delta R.T. -0.01 min  
Lab File: BN012635.D  
Acq: 19 Nov 2020 16:33

Instrument :  
BNA\_N  
ClientSampleId :  
DBGH6

Tot Ion:168 Resp: 1231526  
Ion Ratio Lower Upper  
168 100  
139 42.6 30.5 45.7

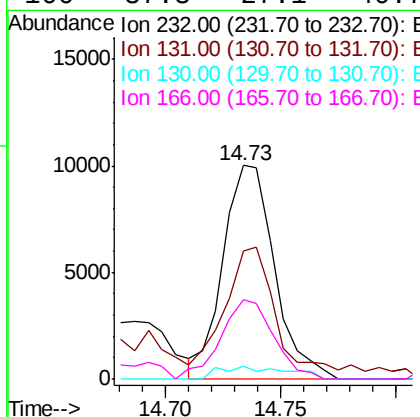
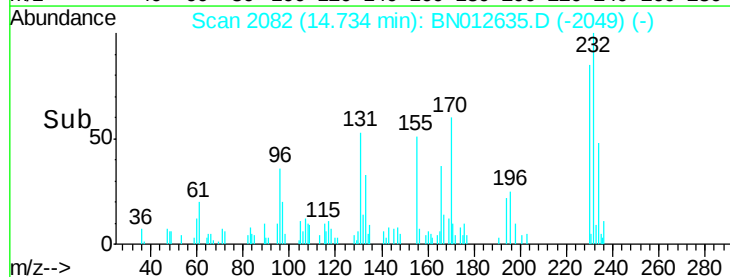
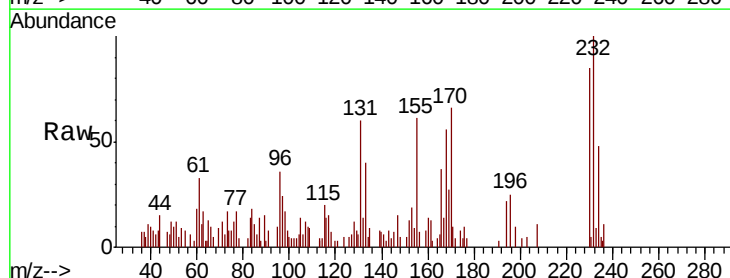
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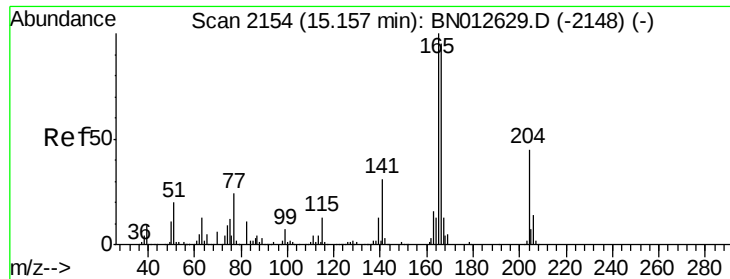
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11/20/2020 11:30:58 AM



#56  
2,3,4,6-Tetrachlorophenol  
Concen: 2.221 ng/ul  
RT: 14.73 min Scan# 2082  
Delta R.T. -0.01 min  
Lab File: BN012635.D  
Acq: 19 Nov 2020 16:33

Tgt Ion:232 Resp: 15573  
Ion Ratio Lower Upper  
232 100  
131 59.8 42.9 64.3  
130 6.0 2.5 3.7#  
166 37.3 27.1 40.7





#59

Fluorene

Concen: 38.214 ng/ul

RT: 15.16 min Scan# 2154

Delta R.T. -0.01 min

Lab File: BN012635.D

Acq: 19 Nov 2020 16:33

Instrument :

BNA\_N

ClientSampled :

DBGH6

Tot Ion:166 Resp: 1184234

Ion Ratio Lower Upper

166 100

165 98.0 83.3 124.9

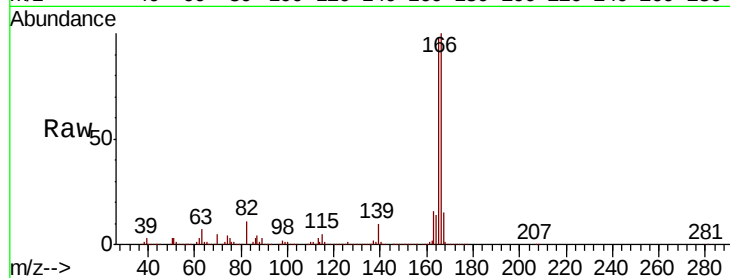
167 14.6 11.0 16.6

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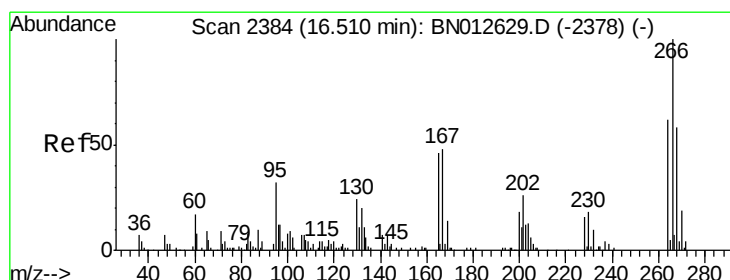
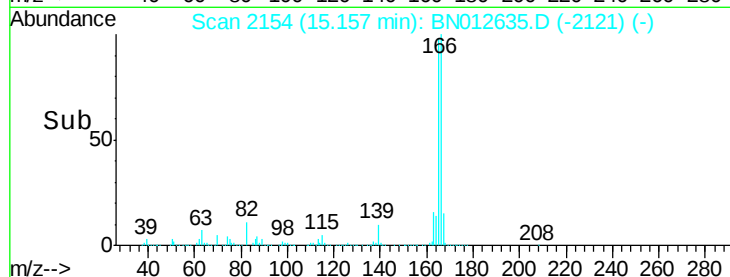
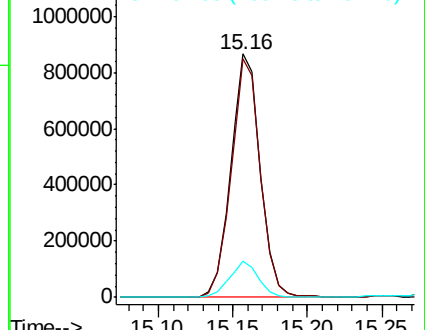


Abundance

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



#69

Pentachlorophenol

Concen: 8.719 ng/ul

RT: 16.51 min Scan# 2384

Delta R.T. -0.01 min

Lab File: BN012635.D

Acq: 19 Nov 2020 16:33

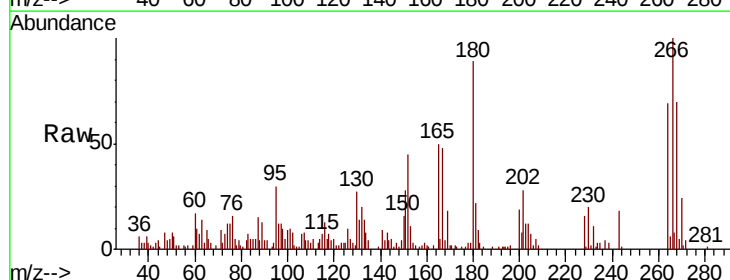
Tgt Ion:266 Resp: 58375

Ion Ratio Lower Upper

266 100

264 69.2 55.0 82.6

268 70.1 56.9 85.3

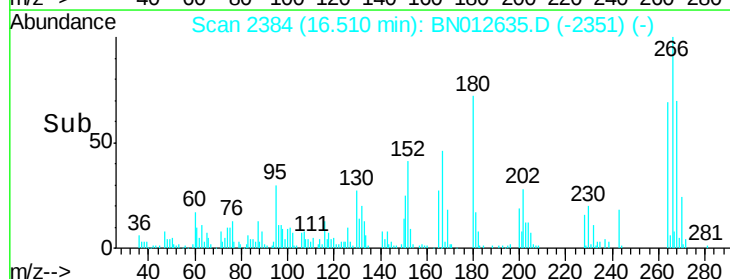
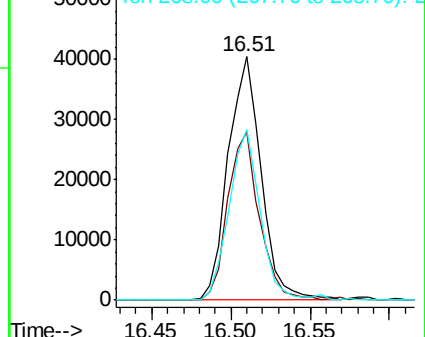


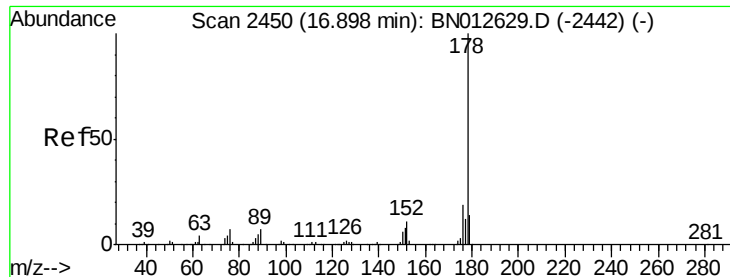
Abundance

Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





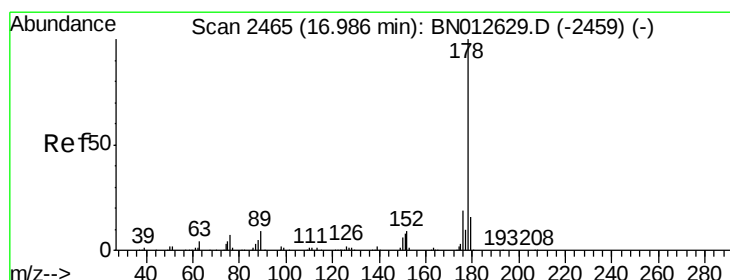
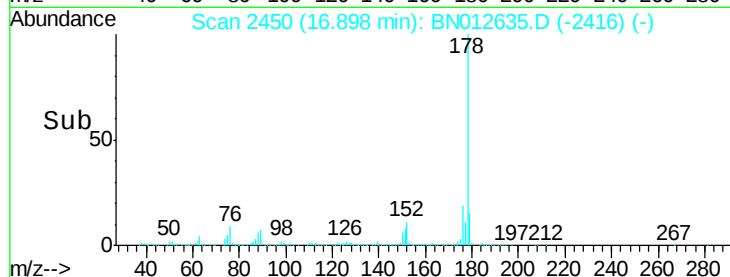
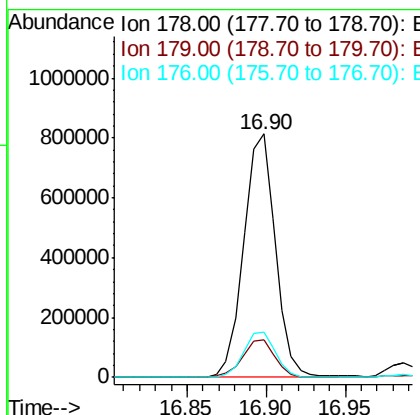
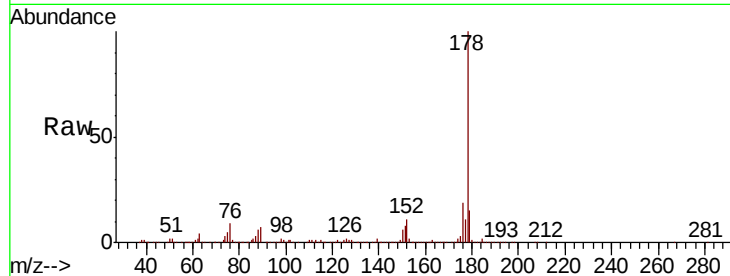
#70  
Phenanthrene  
Concen: 21.626 ng/ul  
RT: 16.90 min Scan# 2450  
Delta R.T. 0.00 min  
Lab File: BN012635.D  
Acq: 19 Nov 2020 16:33

Instrument :  
BNA\_N  
ClientSampled :  
DBGH6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 13.1  | 19.7  |
| 176     | 18.7  | 15.4  | 23.0  |

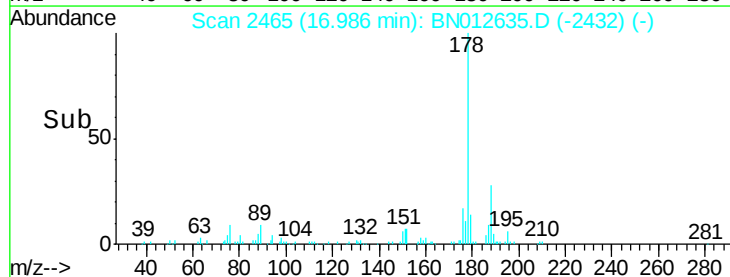
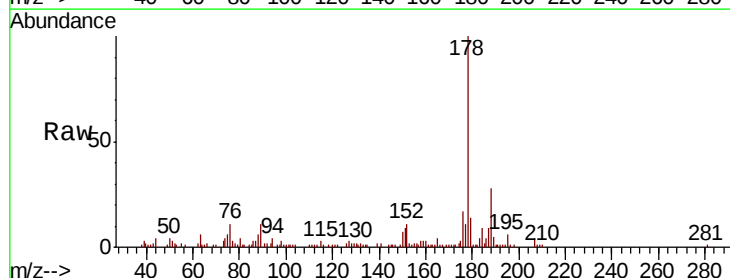
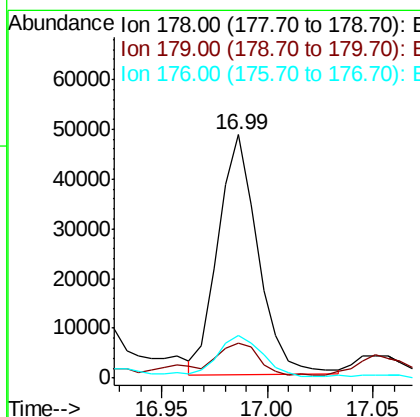
Manual Integrations  
APPROVED

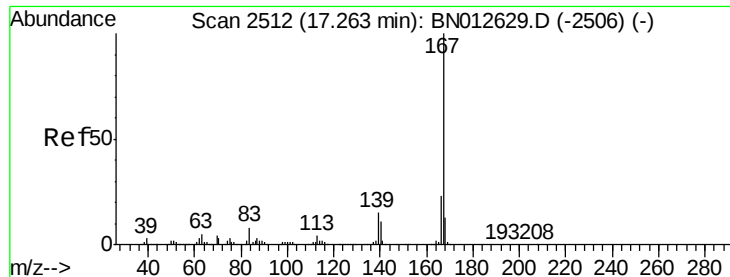
mohammad  
11/20/2020 11:30:58 AM



#72  
Anthracene  
Concen: 1.197 ng/ul  
RT: 16.99 min Scan# 2465  
Delta R.T. -0.01 min  
Lab File: BN012635.D  
Acq: 19 Nov 2020 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.5  | 12.4  | 18.6  |
| 176     | 17.5  | 14.8  | 22.2  |





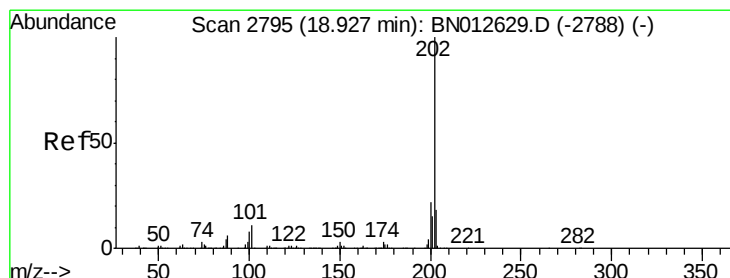
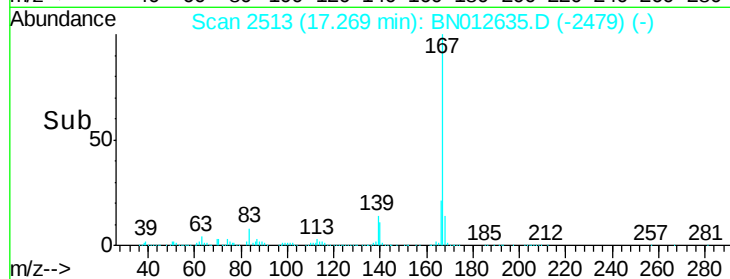
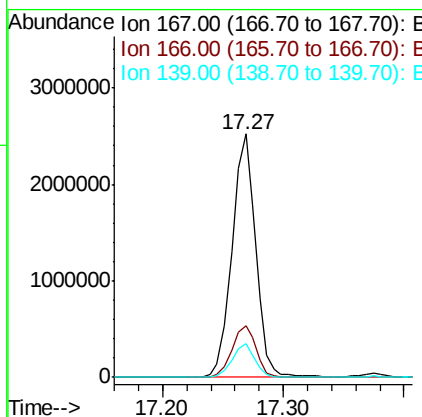
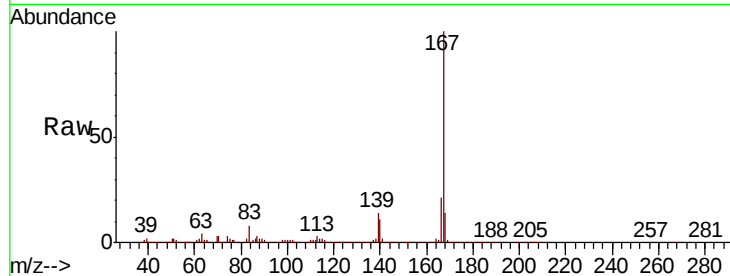
#75  
 Carbazole  
 Concen: 76.426 ng/ul  
 RT: 17.27 min Scan# 2513  
 Delta R.T. 0.00 min  
 Lab File: BN012635.D  
 Acq: 19 Nov 2020 16:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DBGH6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.0  | 17.8  | 26.8  |
| 139     | 13.7  | 10.4  | 15.6  |

Manual Integrations  
 APPROVED

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 11/20/2020 11:30:58 AM



#77  
 Fluoranthene  
 Concen: 1.274 ng/ul  
 RT: 18.92 min Scan# 2794  
 Delta R.T. -0.01 min  
 Lab File: BN012635.D  
 Acq: 19 Nov 2020 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 10.2  | 15.2  |
| 100     | 9.1   | 7.7   | 11.5  |

