

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061620\  
 Data File : BM026423.D  
 Acq On : 16 Jun 2020 21:42  
 Operator : JU/CG  
 Sample : L3013-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 V-202

Manual Integrations  
 APPROVED

mohammad  
 6/18/2020 11:52:43 AM

Quant Time: Jun 17 01:53:49 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 16 10:23:36 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.40  | 152  | 128881   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.16 | 136  | 513921   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.05 | 164  | 300802   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 16.81 | 188  | 612140   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.02 | 240  | 613414   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 23.11 | 264  | 666348   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.04  | 112  | 683474   | 93.76  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.61  | 99   | 969314   | 91.83  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.55  | 82   | 655339   | 62.61  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 15.56 | 330  | 350196   | 96.11  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 12.66 | 172  | 1339215  | 67.58  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.46 | 244  | 1966586  | 62.23  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 49) Acenaphthylene             | 13.77 | 152  | 184579   | 6.737  | ng    | 99       |
| 50) Dimethylphthalate          | 13.53 | 163  | 194878   | 8.857  | ng    | 99       |
| 71) Phenanthrene               | 16.85 | 178  | 468827   | 14.707 | ng    | 99       |
| 72) Anthracene                 | 16.94 | 178  | 198882   | 6.251  | ng    | 99       |
| 75) Fluoranthene               | 18.87 | 202  | 1184478  | 32.410 | ng    | 99       |
| 78) Pyrene                     | 19.24 | 202  | 1135038  | 28.005 | ng    | 100      |
| 81) Benzo(a)anthracene         | 21.00 | 228  | 678799m  | 18.436 | ng    |          |
| 83) Chrysene                   | 21.05 | 228  | 670657   | 19.114 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 20.96 | 149  | 52632    | 2.252  | ng    | # 94     |
| 87) Indeno(1,2,3-cd)pyrene     | 25.16 | 276  | 552529   | 14.334 | ng    | 95       |
| 88) Benzo(b)fluoranthene       | 22.50 | 252  | 1036118  | 25.848 | ng    | # 94     |
| 89) Benzo(k)fluoranthene       | 22.54 | 252  | 313857m  | 8.059  | ng    |          |
| 90) Benzo(a)pyrene             | 23.02 | 252  | 758581   | 21.308 | ng    | # 93     |
| 91) Dibenzo(a,h)anthracene     | 25.16 | 278  | 137928   | 4.286  | ng    | # 75     |
| 92) Benzo(a,h,i)perylene       | 25.78 | 276  | 557050   | 18.191 | ng    | 96       |

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

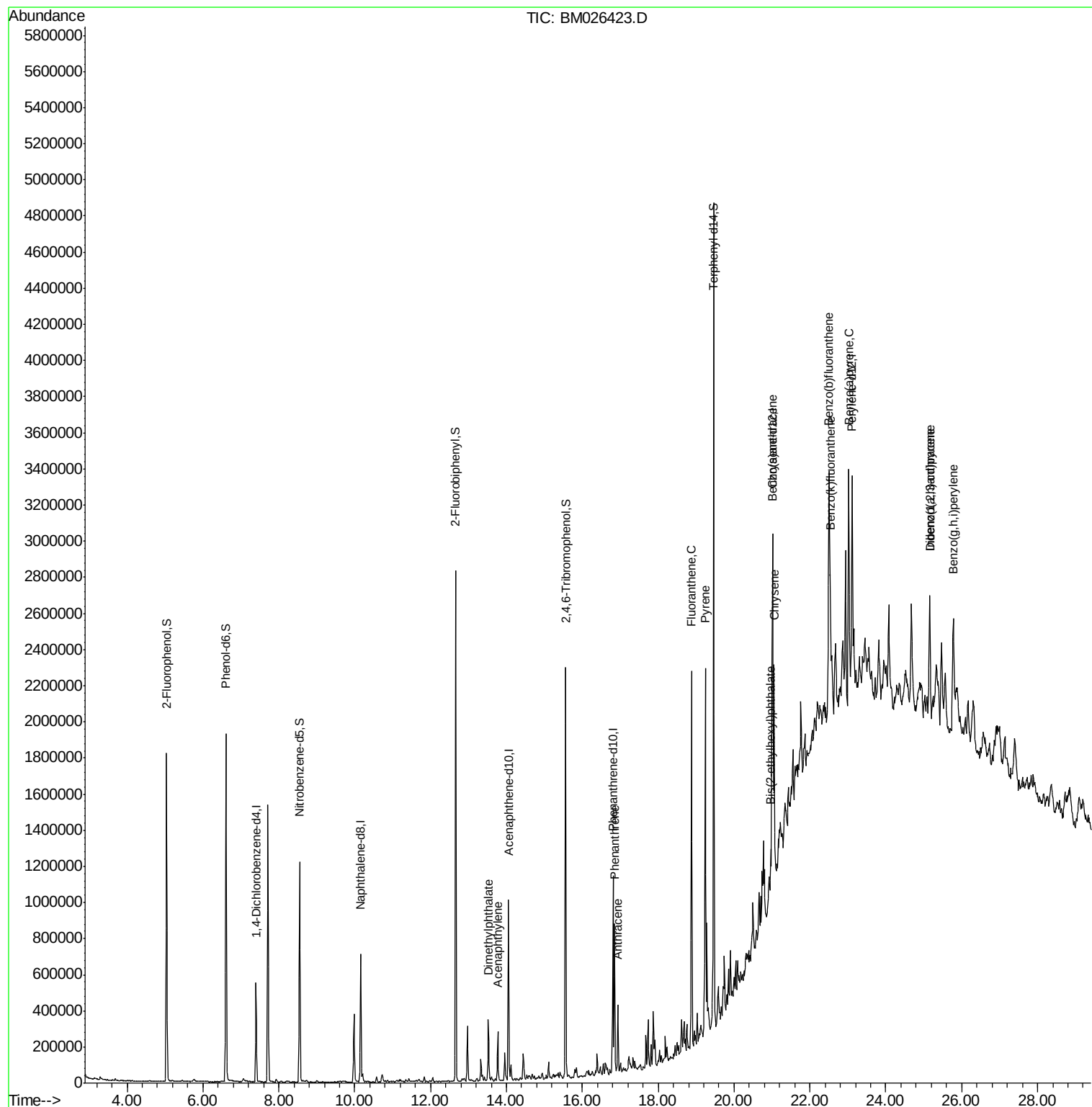
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061620\  
Data File : BM026423.D  
Acq On : 16 Jun 2020 21:42  
Operator : JU/CG  
Sample : L3013-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

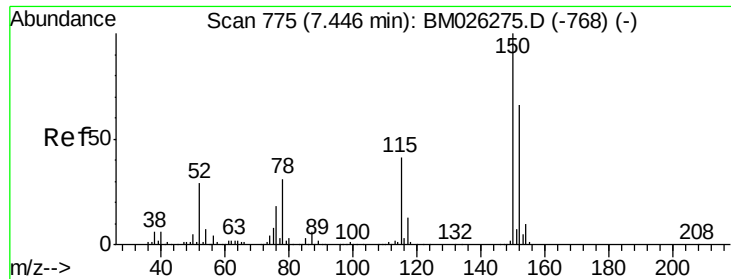
Instrument :  
BNA\_M  
ClientSampleId :  
V-202

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6/18/2020 11:52:43 AM

Quant Time: Jun 17 01:53:49 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 16 10:23:36 2020  
Response via : Initial Calibration





#1

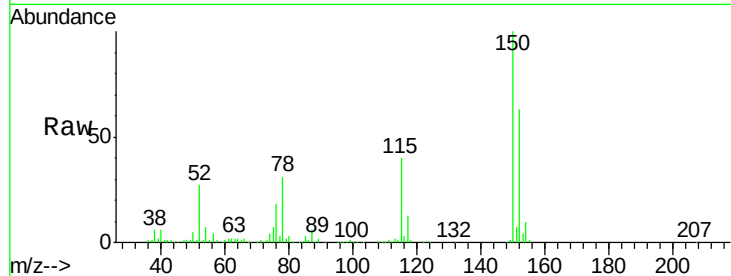
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.40 min Scan# 767  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampleId :  
V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 127.8 | 191.6 |
| 115     | 63.6  | 51.5  | 77.3  |

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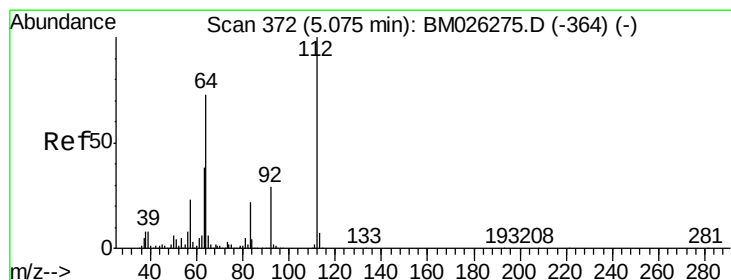
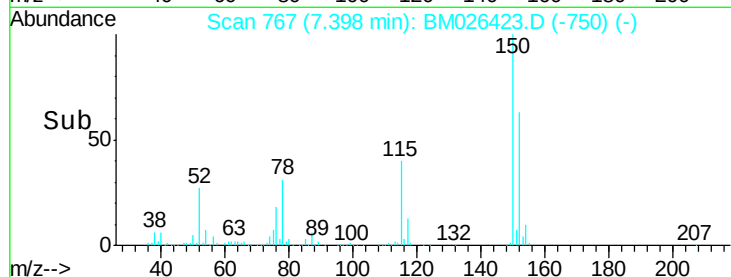
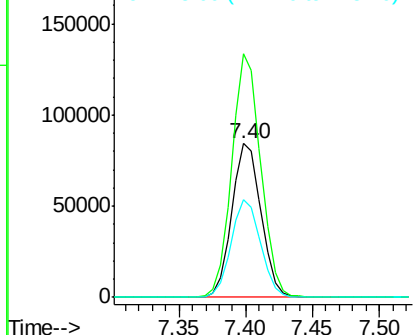


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

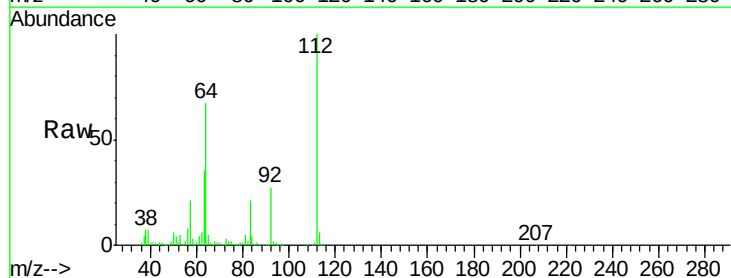
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 93.761 ng  
RT: 5.04 min Scan# 366  
Delta R.T. 0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.8  | 56.0  | 84.0  |
| 63      | 35.2  | 29.0  | 43.6  |

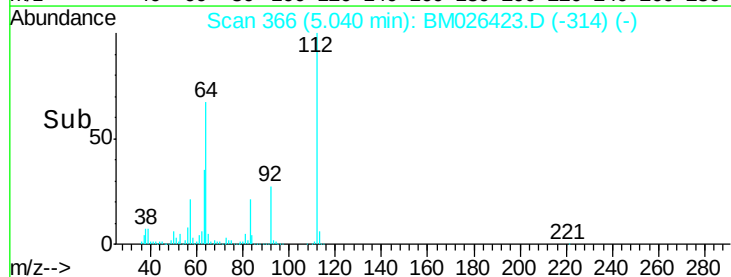
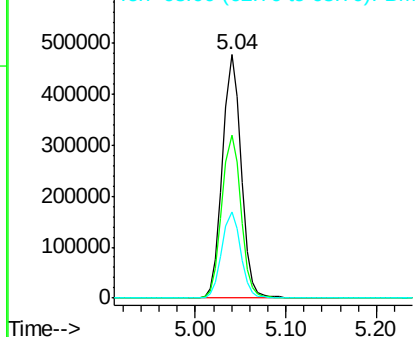


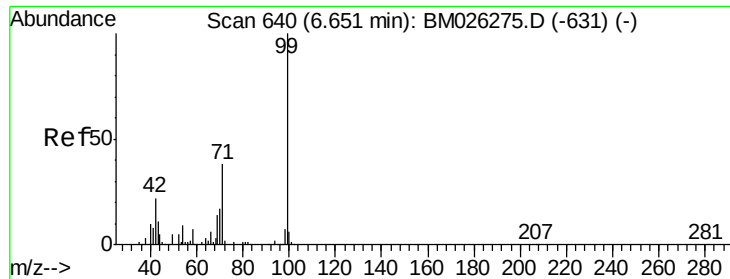
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 91.829 ng

RT: 6.61 min Scan# 633

Delta R.T. 0.01 min

Lab File: BM026423.D

Acq: 16 Jun 2020 21:42

Instrument :

BNA\_M

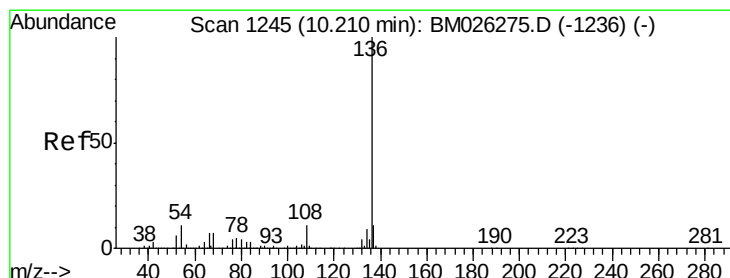
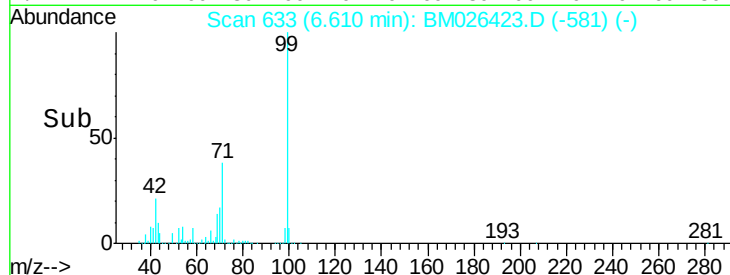
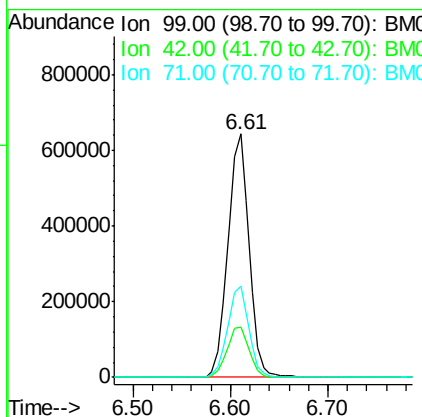
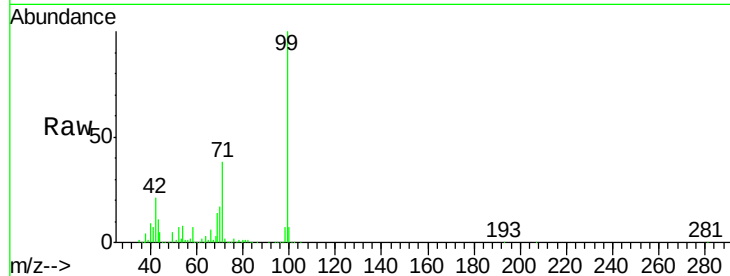
ClientSampleId :

V-202

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 969314 |       |       |
| 42      | 20.7 | 17.8  | 26.6   |       |       |
| 71      | 37.7 | 31.0  | 46.4   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

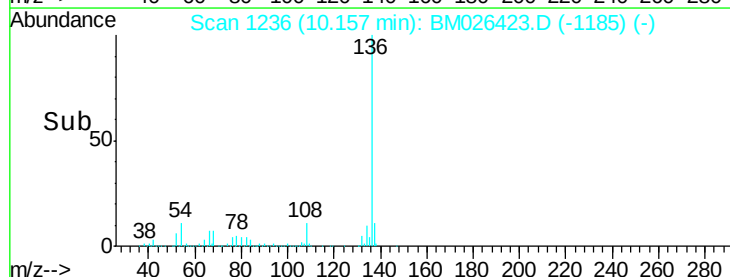
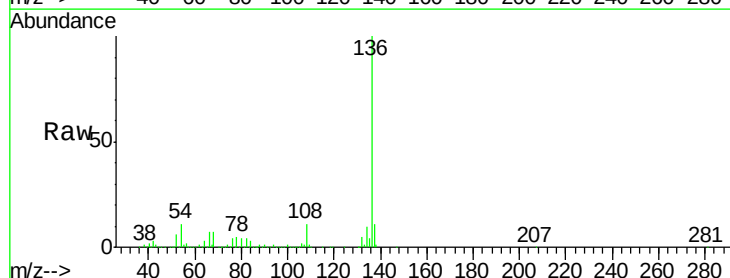
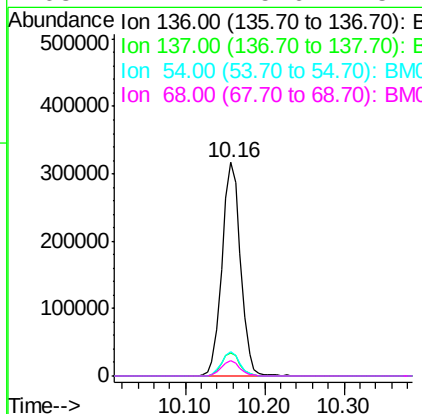
RT: 10.16 min Scan# 1236

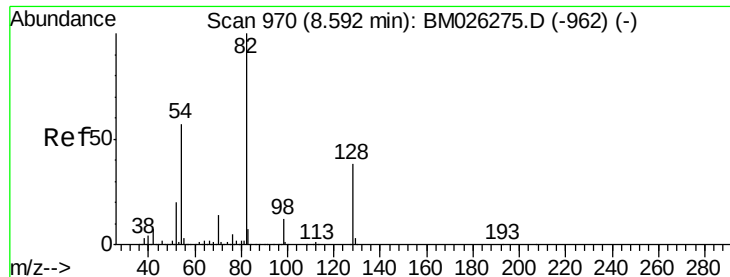
Delta R.T. -0.00 min

Lab File: BM026423.D

Acq: 16 Jun 2020 21:42

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 513921 |       |       |
| 137     | 10.9 | 8.5   | 12.7   |       |       |
| 54      | 11.4 | 9.0   | 13.6   |       |       |
| 68      | 7.4  | 5.6   | 8.4    |       |       |





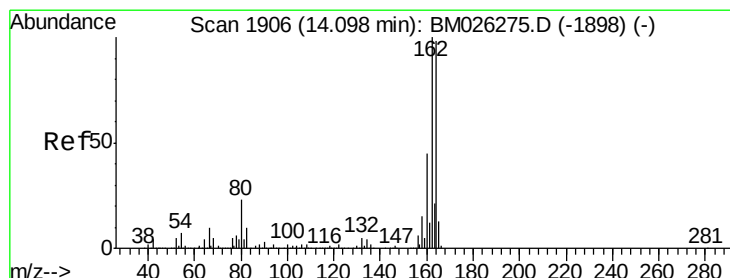
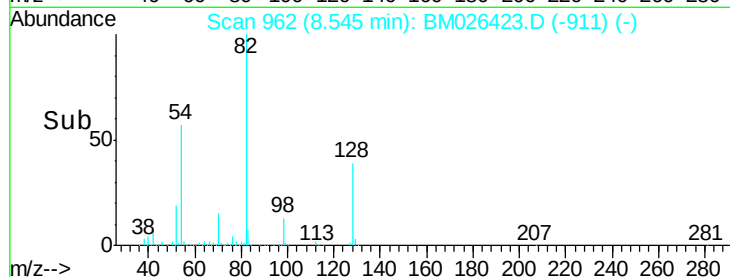
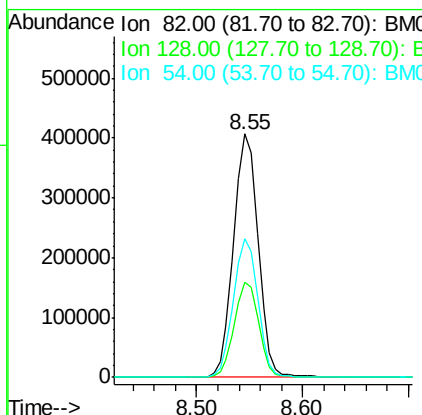
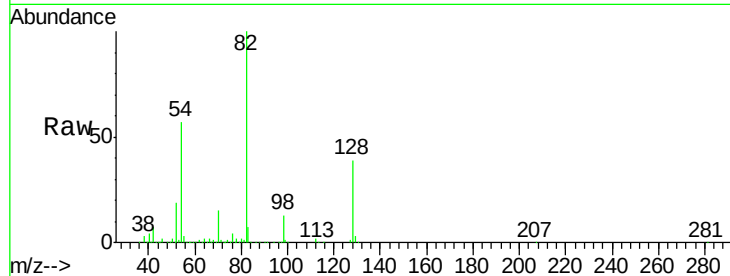
#23  
Nitrobenzene-d5  
Concen: 62.611 ng  
RT: 8.55 min Scan# 962  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampled :  
V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 39.2  | 31.0  | 46.6  |
| 54      | 57.2  | 45.4  | 68.2  |

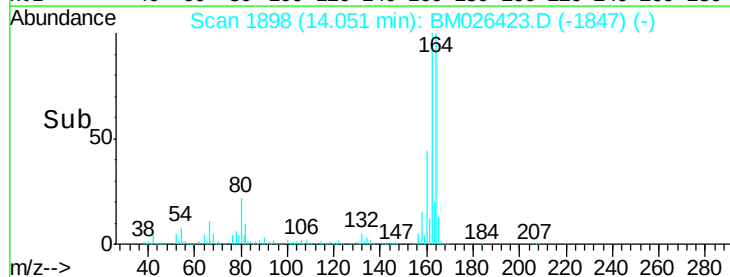
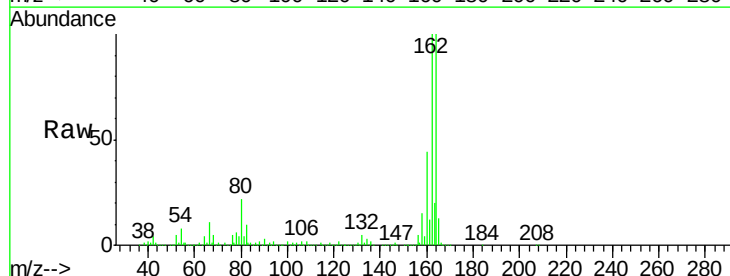
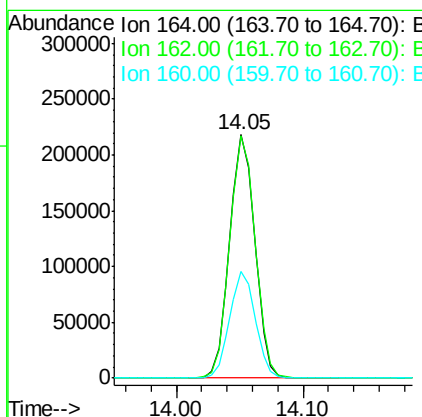
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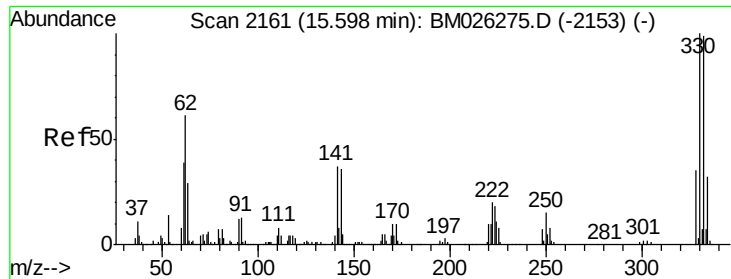
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.05 min Scan# 1898  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.6  | 77.7  | 116.5 |
| 160     | 43.8  | 34.2  | 51.2  |





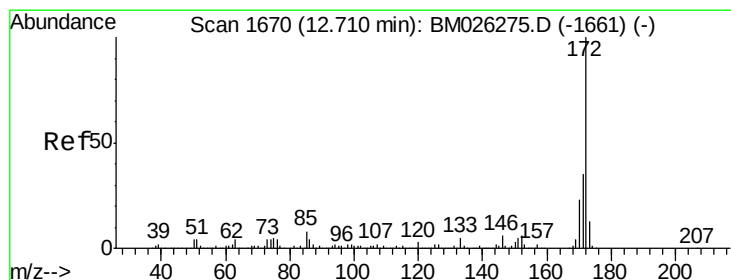
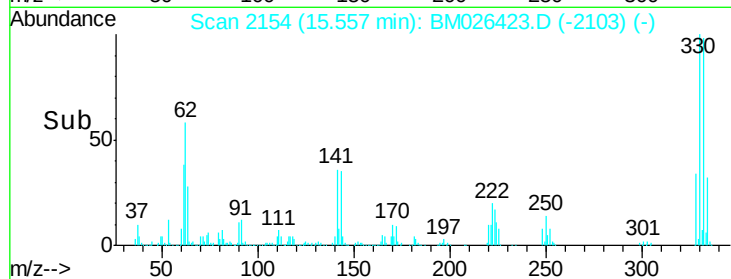
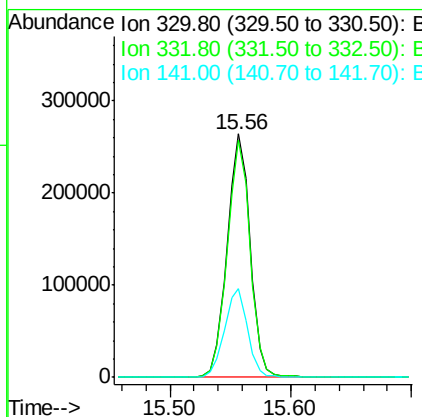
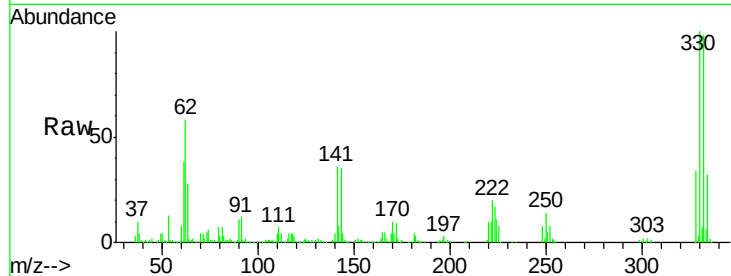
#42  
 2,4,6-Tribromophenol  
 Concen: 96.108 ng  
 RT: 15.56 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

Instrument :  
 BNA\_M  
 ClientSampleId :  
 V-202

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 350196 |       |       |
| 332     | 96.8  | 77.7   | 116.5 |       |
| 141     | 36.0  | 29.7   | 44.5  |       |

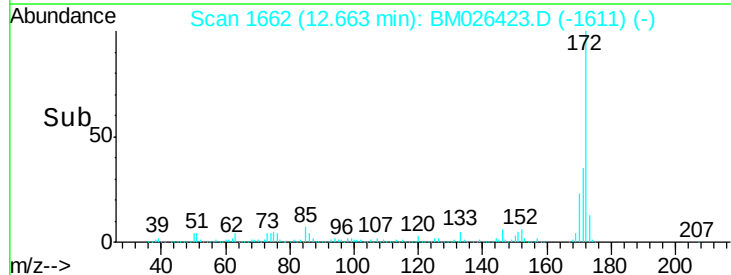
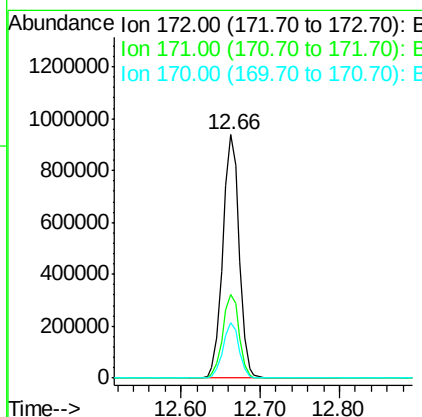
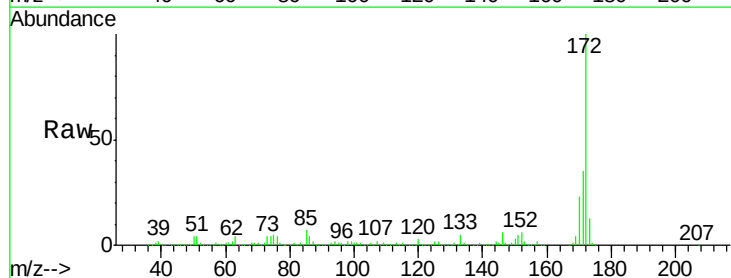
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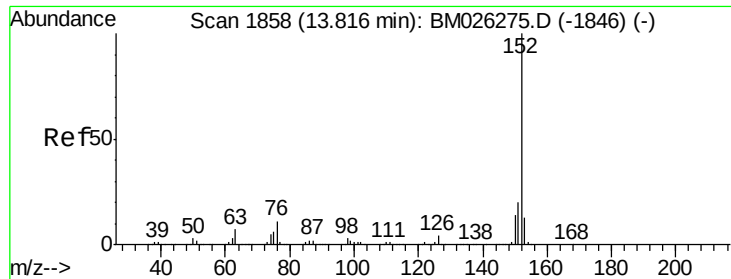
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#45  
 2-Fluorobiphenyl  
 Concen: 67.582 ng  
 RT: 12.66 min Scan# 1662  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1339215 |       |       |
| 171     | 34.6  | 27.8    | 41.8  |       |
| 170     | 22.8  | 18.2    | 27.4  |       |





#49

Acenaphthylene

Concen: 6.737 ng

RT: 13.77 min Scan# 1850

Delta R.T. -0.00 min

Lab File: BM026423.D

Acq: 16 Jun 2020 21:42

Instrument :

BNA\_M

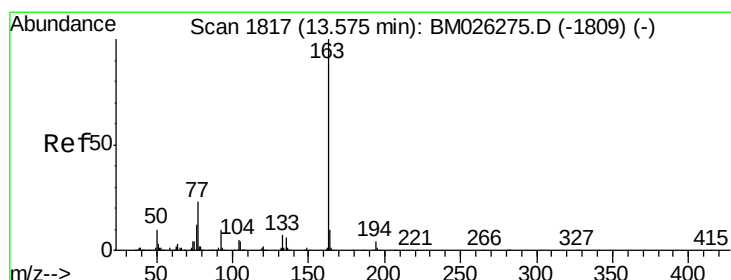
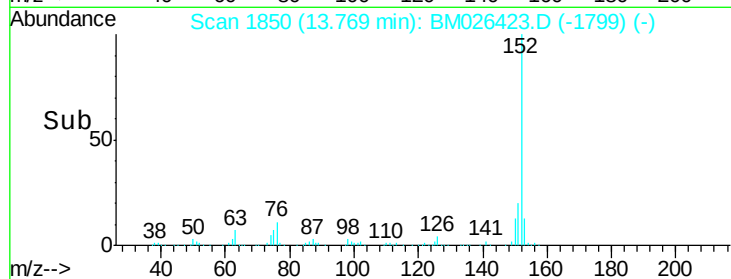
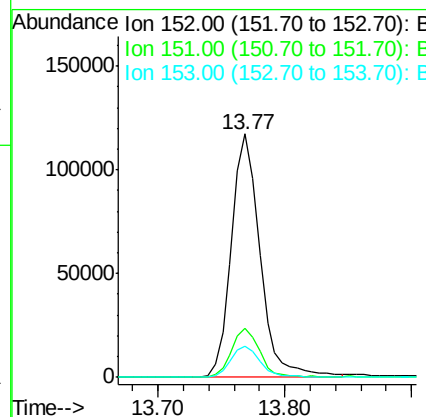
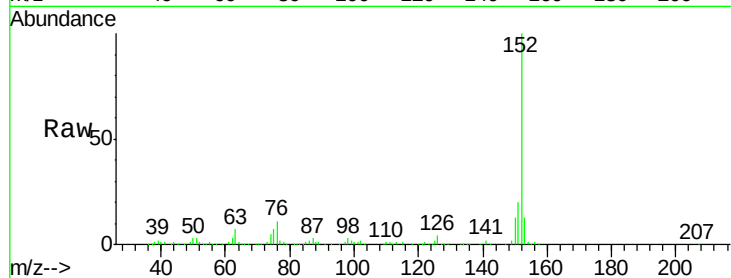
ClientSampleId :

V-202

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 184579 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.2  | 15.8  | 23.6   |
| 153       | 12.8  | 10.1  | 15.1   |

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#50

Dimethylphthalate

Concen: 8.857 ng

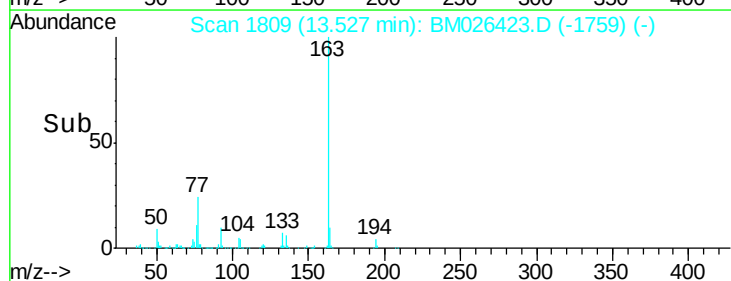
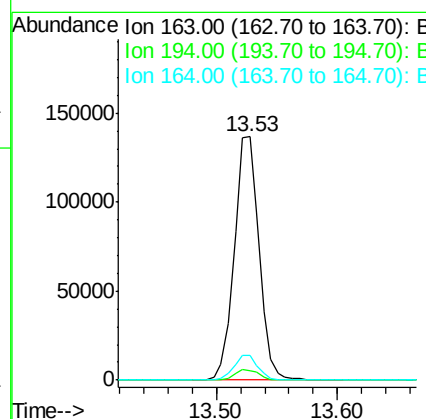
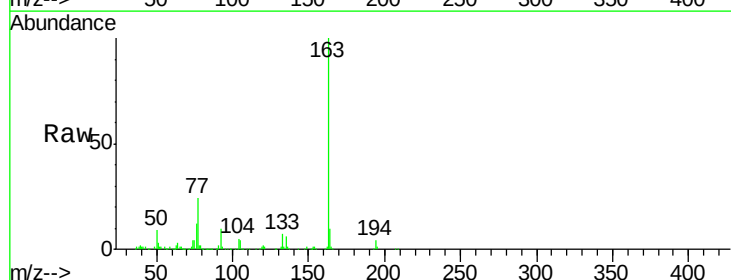
RT: 13.53 min Scan# 1809

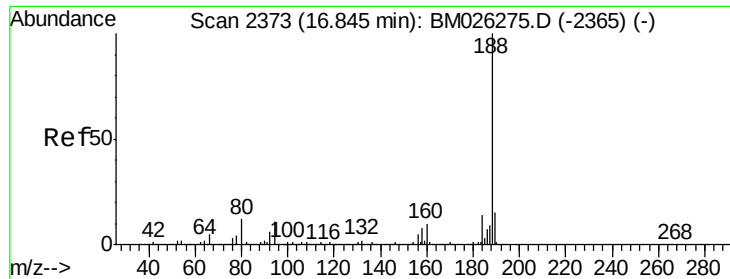
Delta R.T. -0.01 min

Lab File: BM026423.D

Acq: 16 Jun 2020 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 194878 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 3.4   | 5.2    |
| 164       | 10.1  | 7.8   | 11.8   |





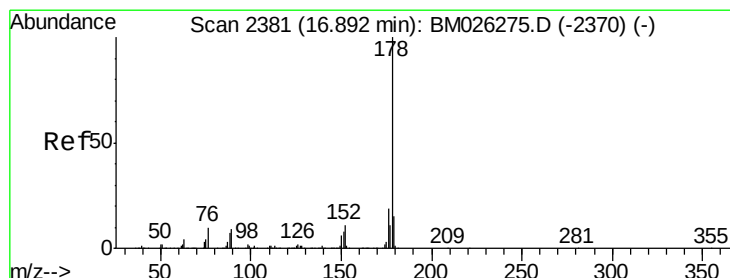
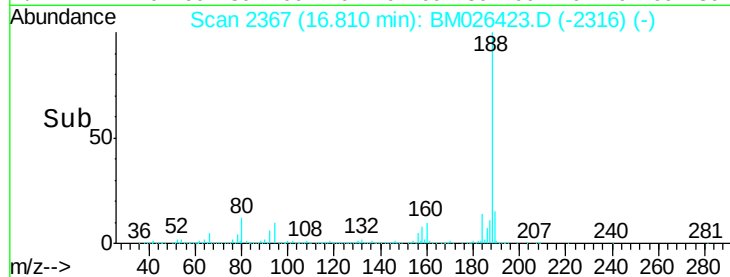
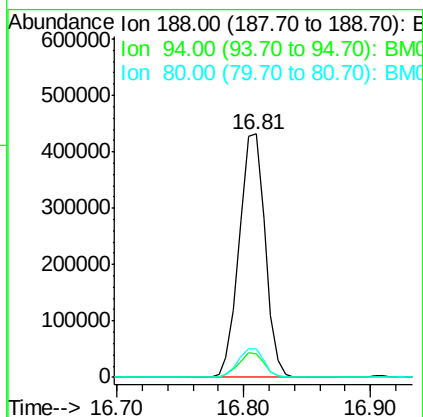
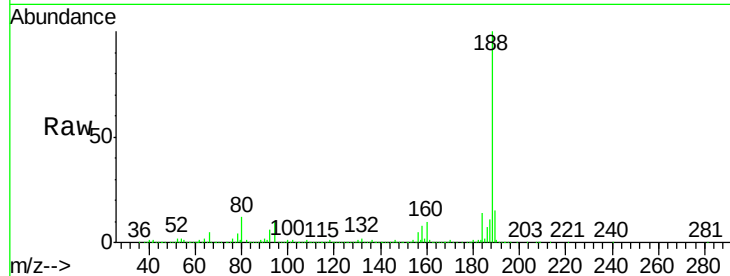
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.81 min Scan# 2367  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampled :  
V-202

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.6   | 7.8        | 11.6       |
| 80      | 11.6  | 9.5        | 14.3       |

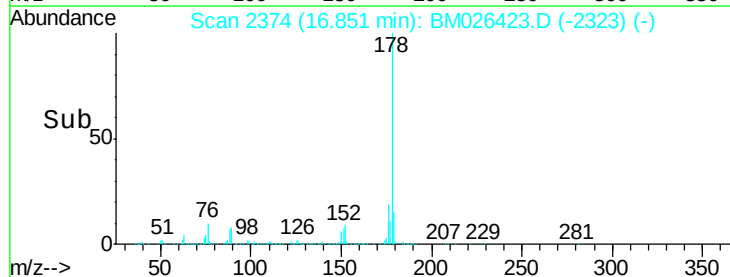
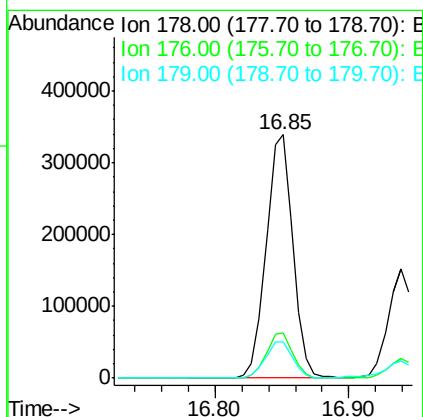
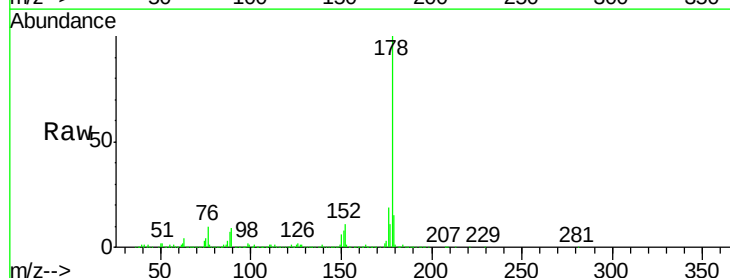
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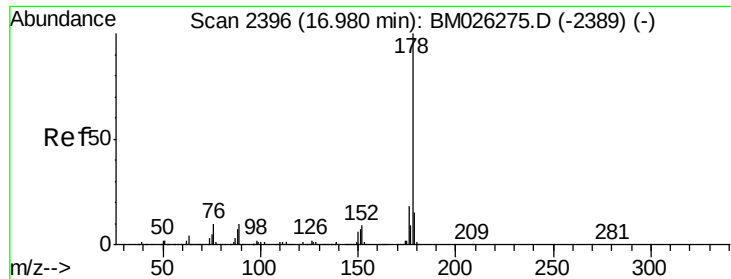


#71  
Phenanthrene  
Concen: 14.707 ng  
RT: 16.85 min Scan# 2374  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 18.7  | 15.1       | 22.7       |
| 179     | 15.0  | 12.3       | 18.5       |







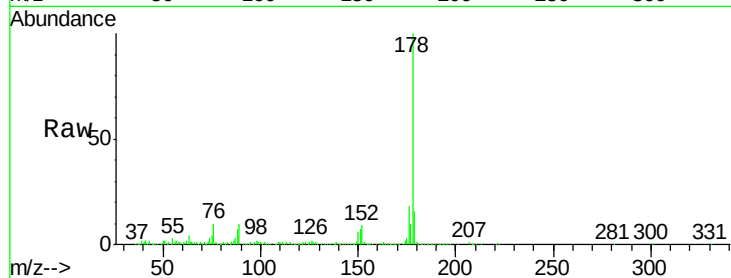
#72  
 Anthracene  
 Concen: 6.251 ng  
 RT: 16.94 min Scan# 2389  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

Instrument :  
 BNA\_M  
 ClientSampled :  
 V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.6  | 14.5  | 21.7  |
| 179     | 15.8  | 12.3  | 18.5  |

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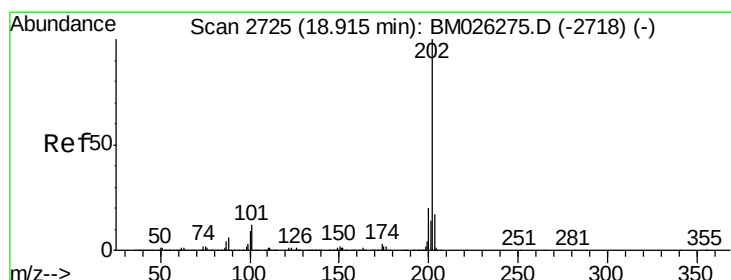
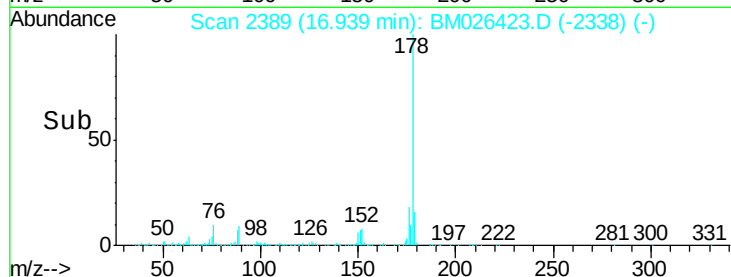
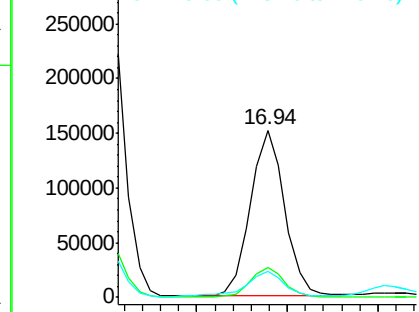


Abundance

Ion 178.00 (177.70 to 178.70): E

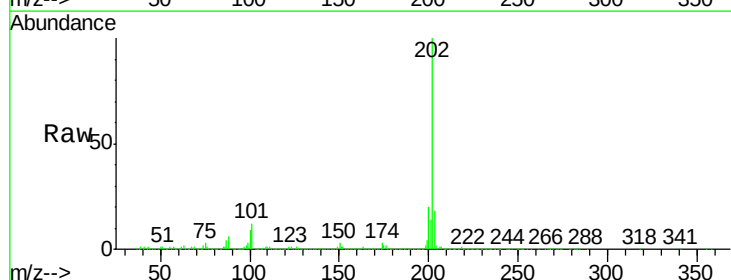
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75  
 Fluoranthene  
 Concen: 32.410 ng  
 RT: 18.87 min Scan# 2718  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 0.0   | 31.9  |
| 203     | 17.9  | 0.0   | 37.5  |

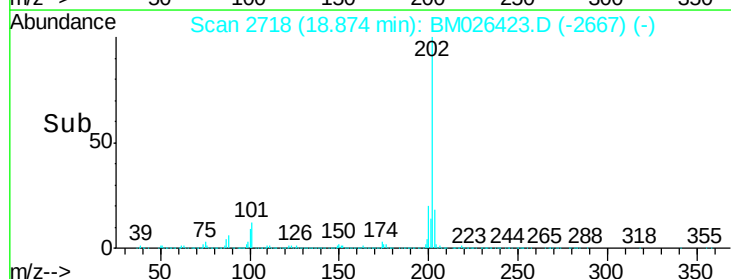
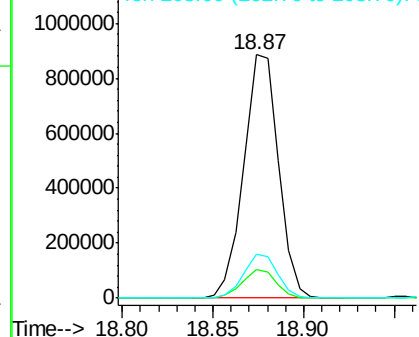


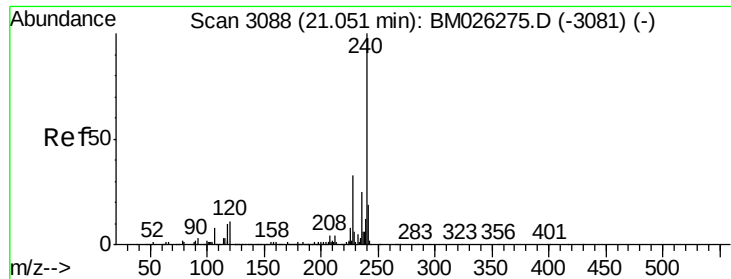
Abundance

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





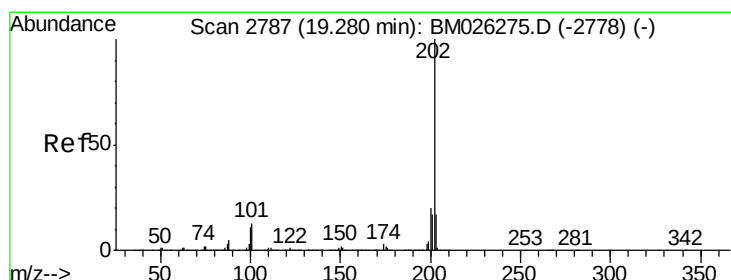
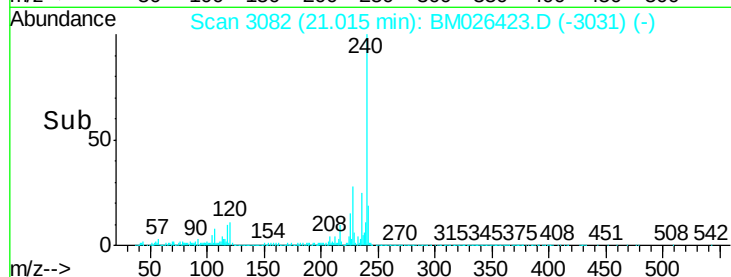
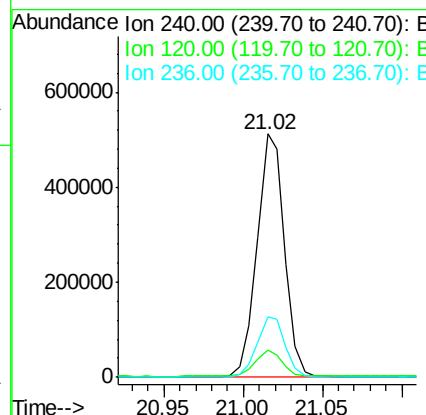
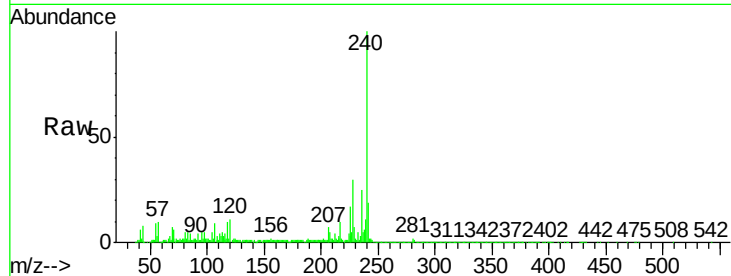
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.02 min Scan# 3082  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampleId :  
V-202

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 613414 |       |       |
| 120     | 11.1  |        | 9.3   | 13.9  |
| 236     | 24.9  |        | 19.4  | 29.0  |

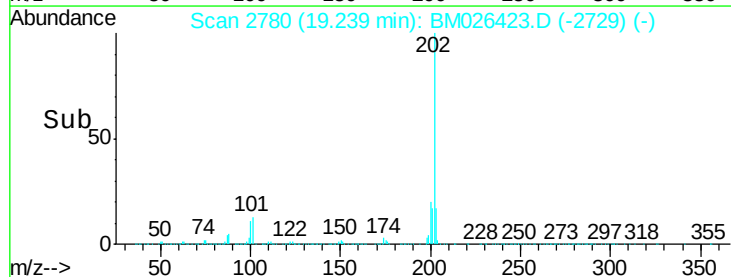
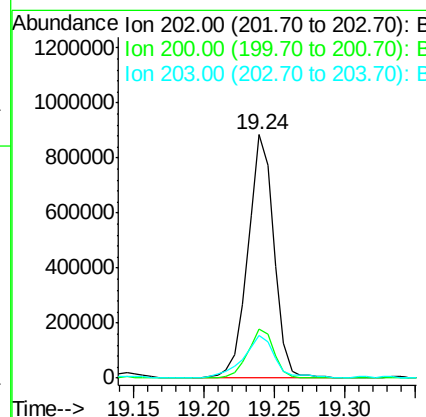
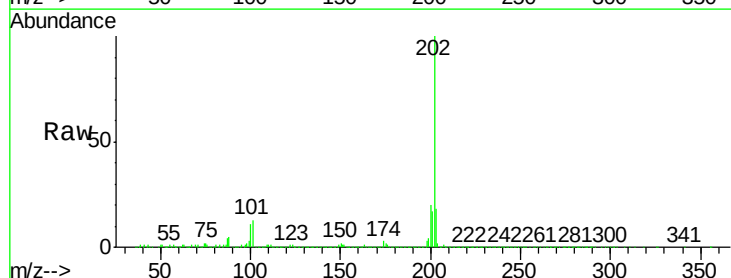
Manual Integrations  
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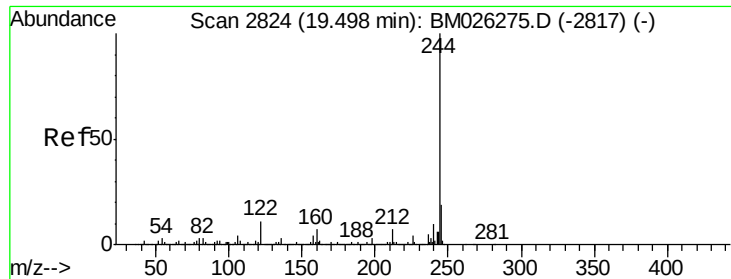
mohammad  
6/18/2020 11:52:43 AM



#78  
Pyrene  
Concen: 28.005 ng  
RT: 19.24 min Scan# 2780  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1135038 |       |       |
| 200     | 20.4  |         | 16.3  | 24.5  |
| 203     | 17.6  |         | 13.8  | 20.6  |





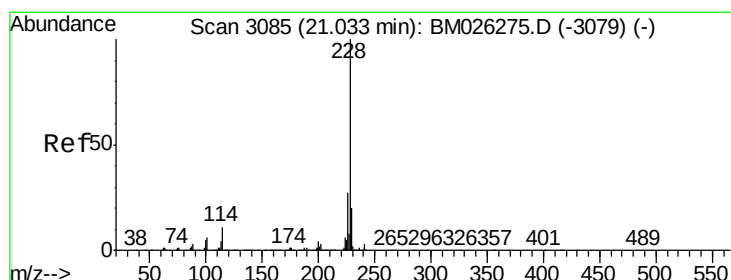
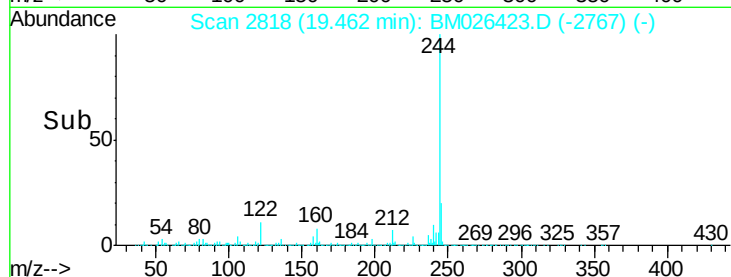
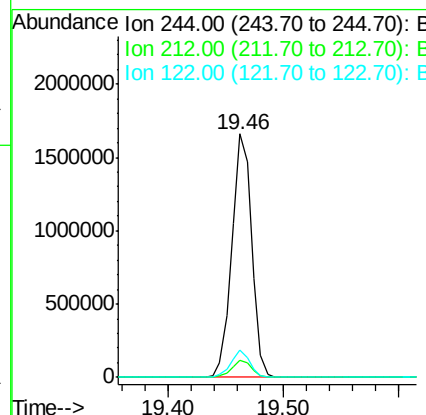
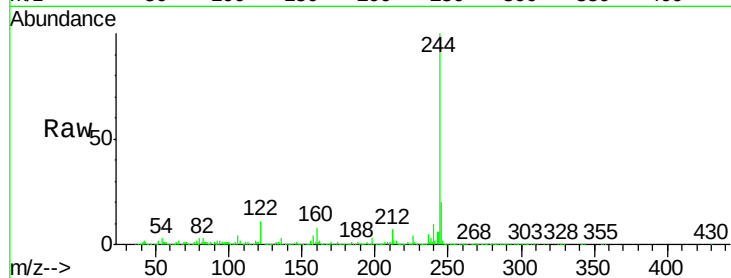
#79  
 Terphenyl-d14  
 Concen: 62.233 ng  
 RT: 19.46 min Scan# 2818  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

Instrument :  
 BNA\_M  
 ClientSampleId :  
 V-202

Tot Ion:244 Resp: 1966586  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.9 8.9  
 122 11.0 8.6 13.0

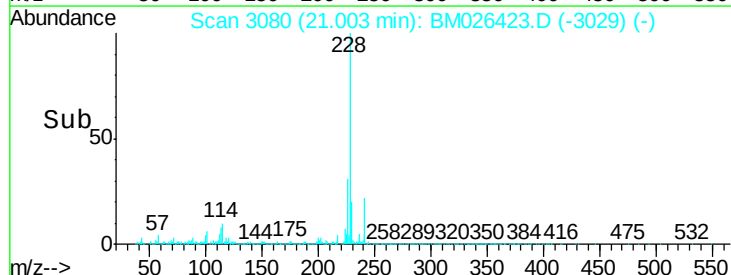
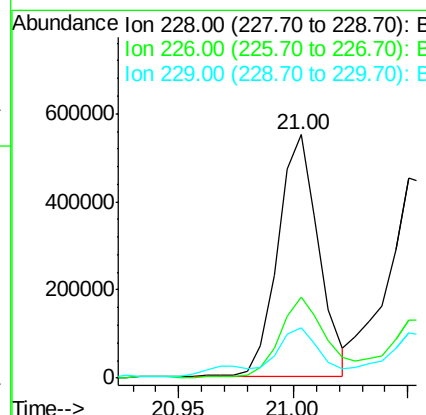
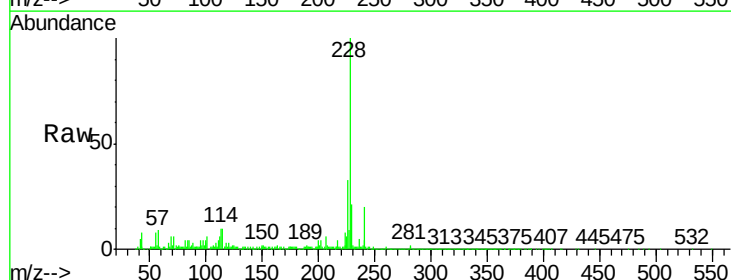
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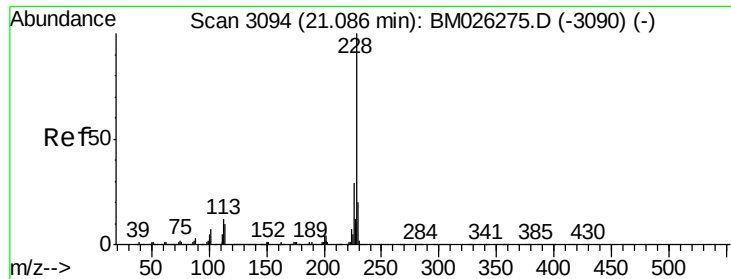
mohammad  
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#81  
 Benzo(a)anthracene  
 Concen: 18.436 ng m  
 RT: 21.00 min Scan# 3080  
 Delta R.T. -0.00 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

Tgt Ion:228 Resp: 678799  
 Ion Ratio Lower Upper  
 228 100  
 226 33.3 21.1 31.7#  
 229 20.6 15.7 23.5





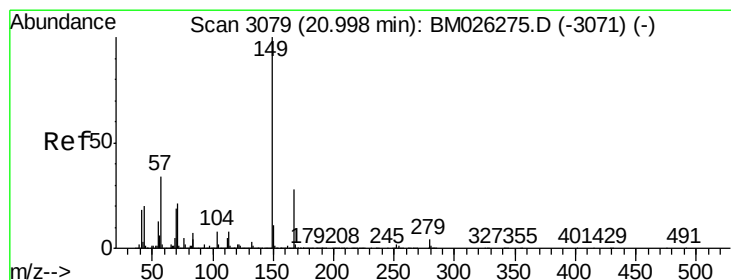
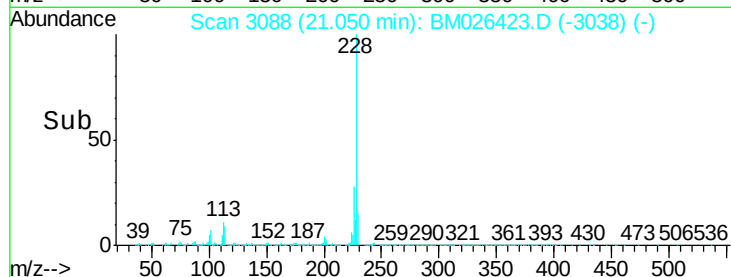
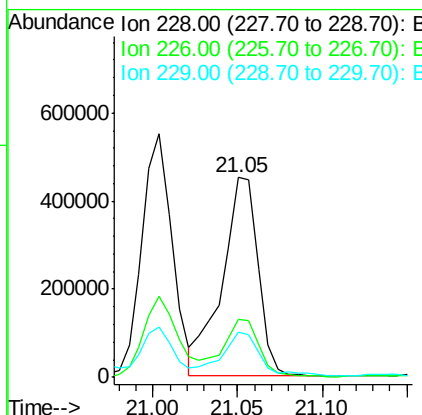
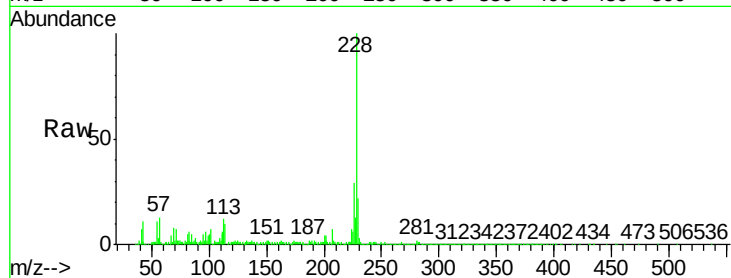
#83  
Chrysene  
Concen: 19.114 ng  
RT: 21.05 min Scan# 3088  
Delta R.T. -0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampled :  
V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 23.8  | 35.6  |
| 229     | 22.3  | 15.5  | 23.3  |

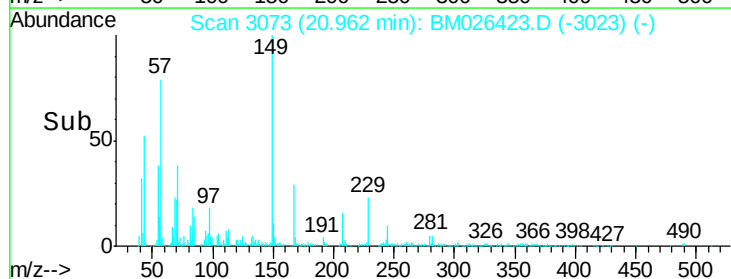
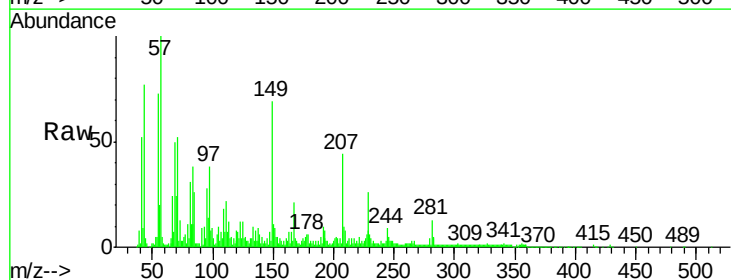
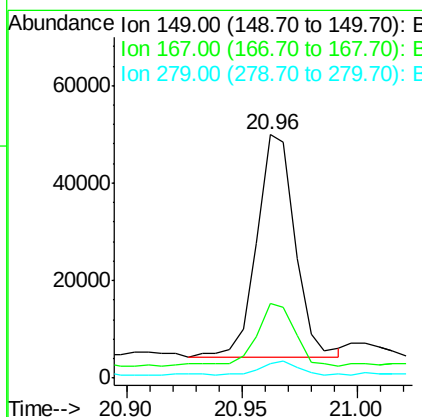
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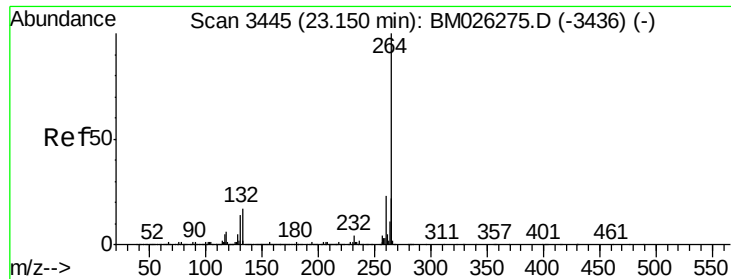
mohammad  
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#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.252 ng  
RT: 20.96 min Scan# 3073  
Delta R.T. -0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.7  | 22.0  | 33.0  |
| 279     | 5.9   | 3.7   | 5.5#  |





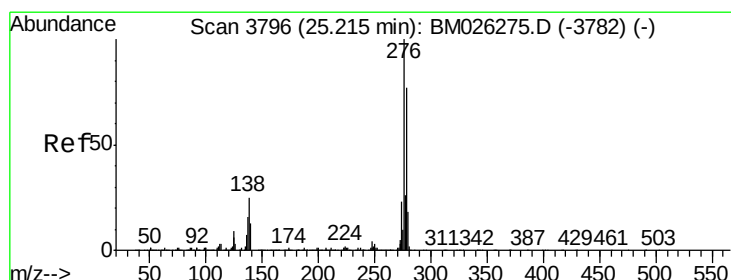
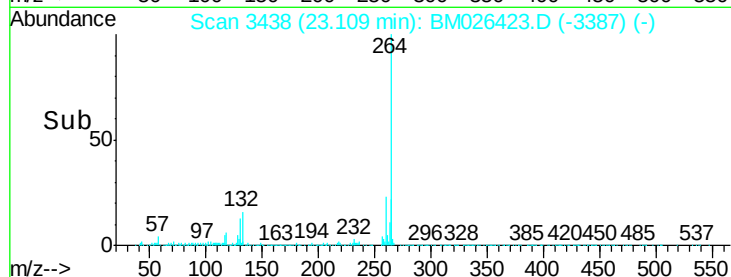
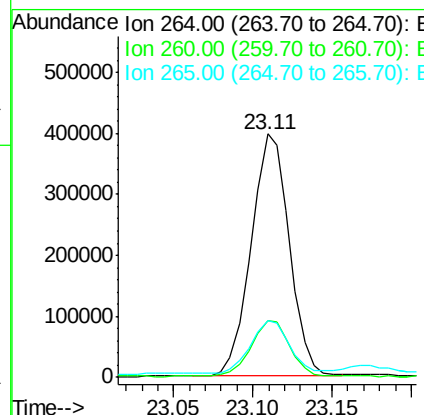
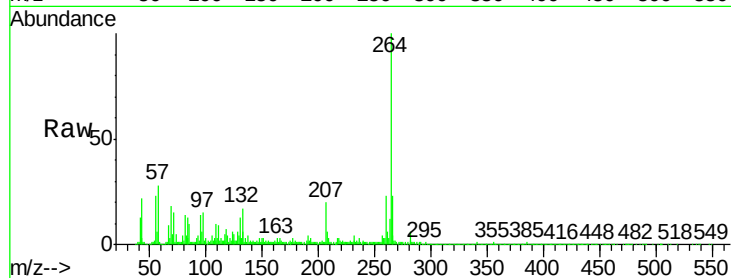
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.11 min Scan# 3438  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampled :  
V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.6  | 28.0  |
| 265     | 23.4  | 17.8  | 26.6  |

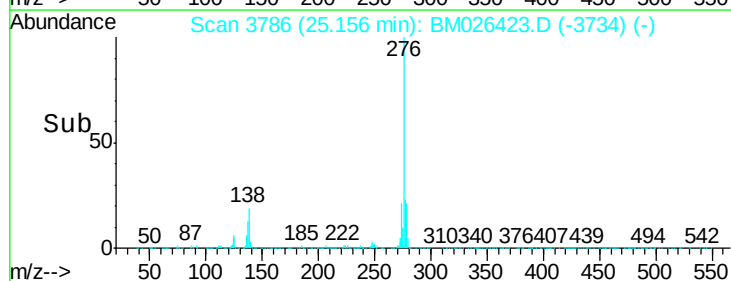
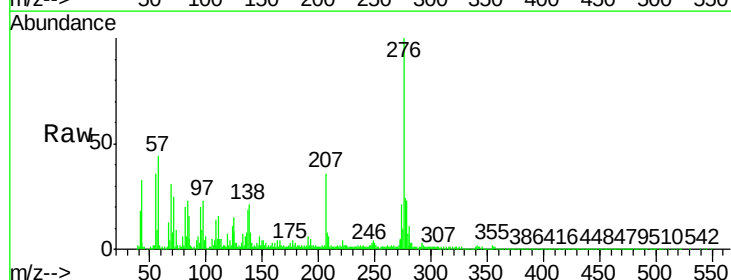
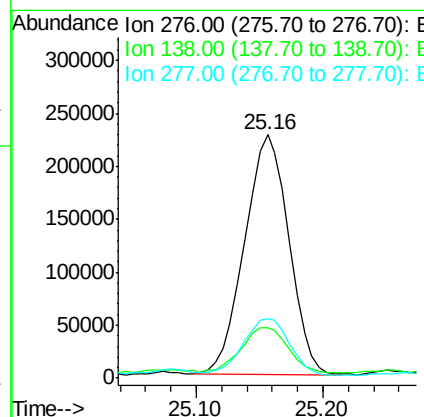
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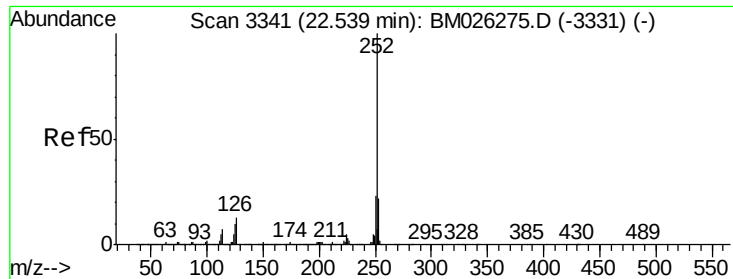
mohammad  
6/18/2020 11:52:43 AM



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.334 ng  
RT: 25.16 min Scan# 3786  
Delta R.T. 0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.6  | 19.0  | 28.6  |
| 277     | 24.5  | 20.2  | 30.4  |





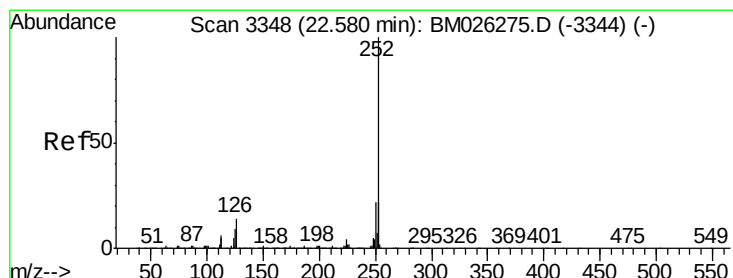
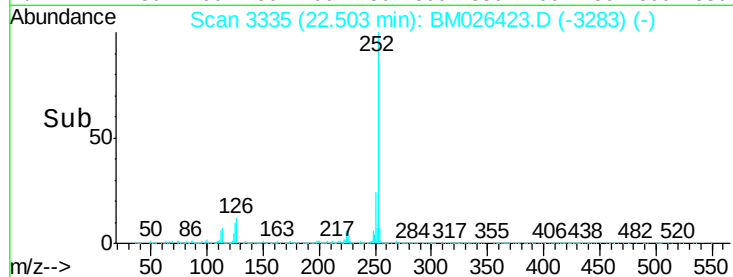
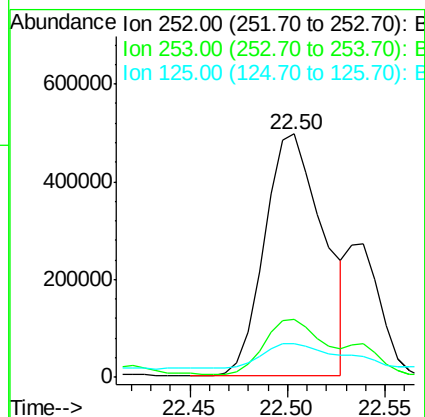
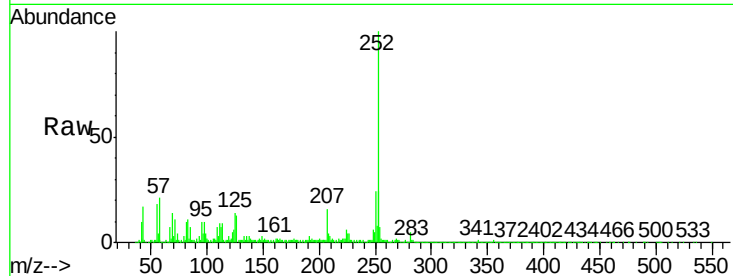
#88  
Benzo(b)fluoranthene  
Concen: 25.848 ng  
RT: 22.50 min Scan# 3335  
Delta R.T. 0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampled :  
V-202

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.6  | 26.4  |
| 125     | 13.7  | 8.0   | 12.0  |

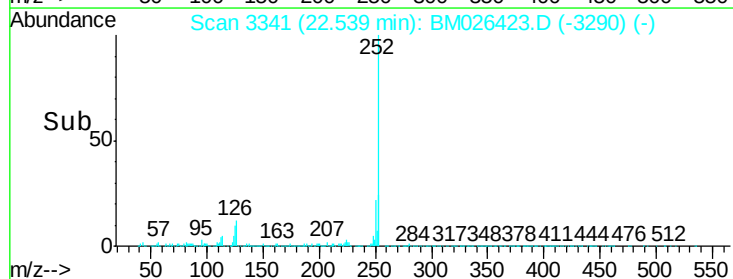
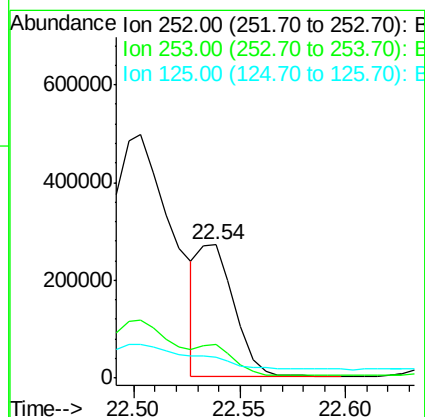
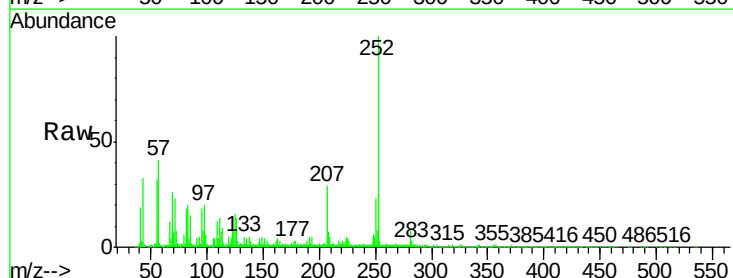
Manual Integrations  
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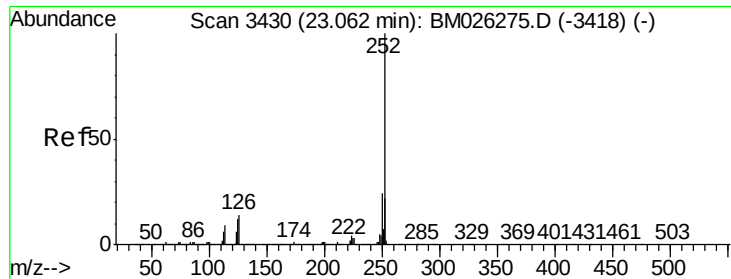
mohammad  
6/18/2020 11:52:43 AM



#89  
Benzo(k)fluoranthene  
Concen: 8.059 ng m  
RT: 22.54 min Scan# 3341  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.2  | 25.8  |
| 125     | 16.1  | 7.8   | 11.8  |





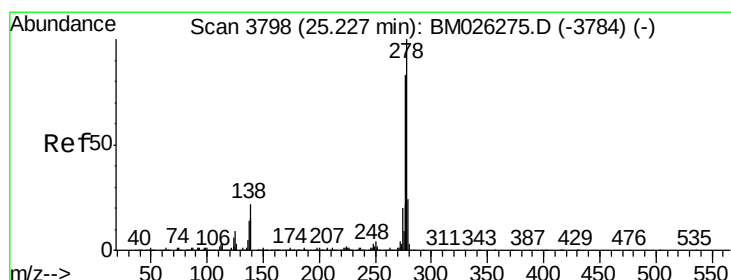
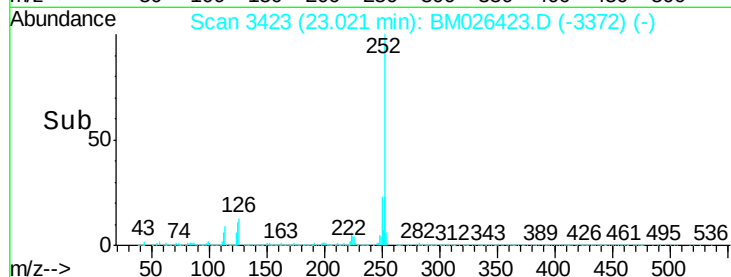
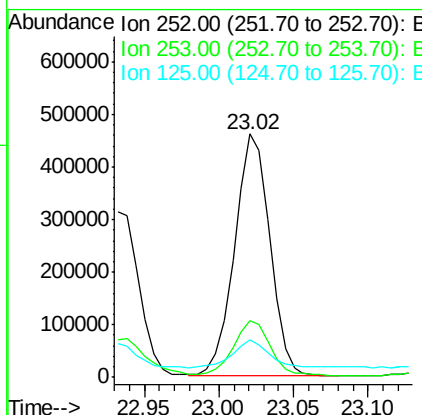
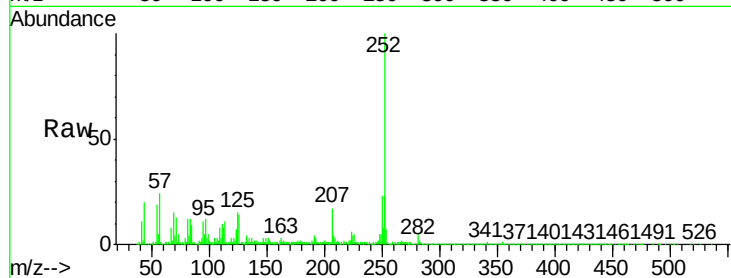
#90  
Benzo(a)pyrene  
Concen: 21.308 ng  
RT: 23.02 min Scan# 3423  
Delta R.T. -0.00 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

Instrument :  
BNA\_M  
ClientSampleId :  
V-202

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.5  | 17.3       | 25.9  |
| 125     | 15.3  | 8.6        | 12.8  |

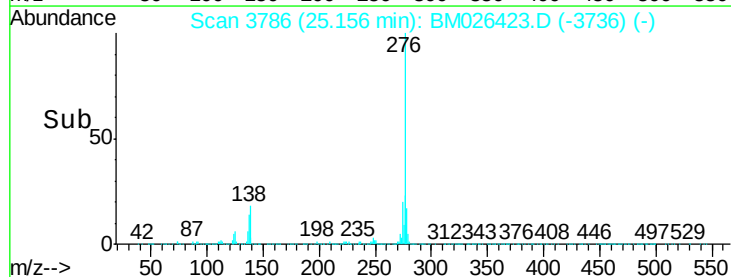
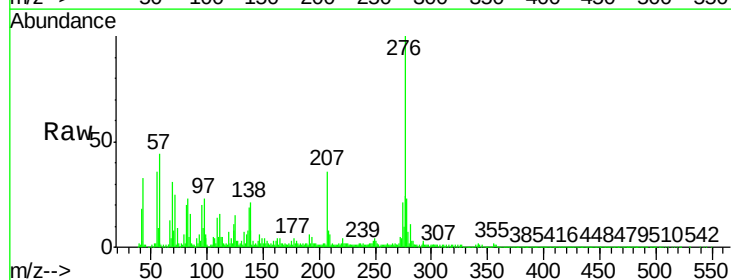
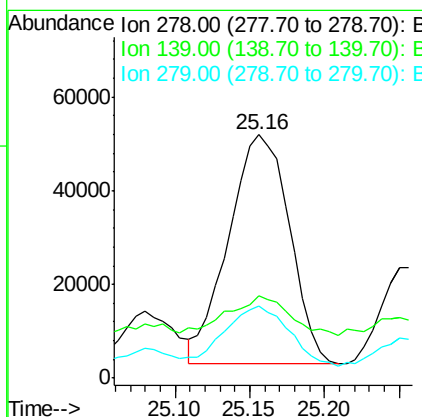
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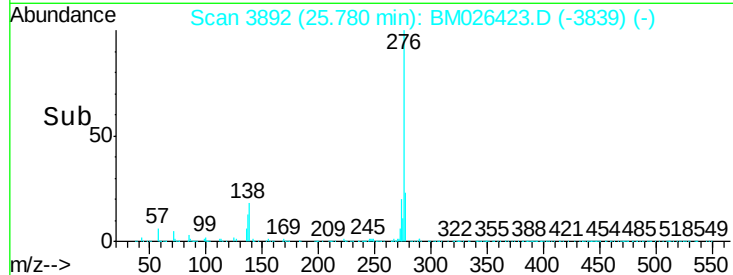
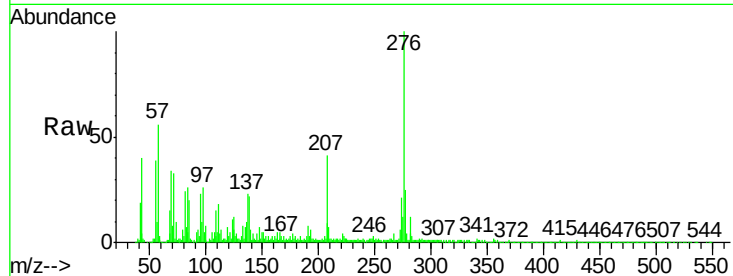
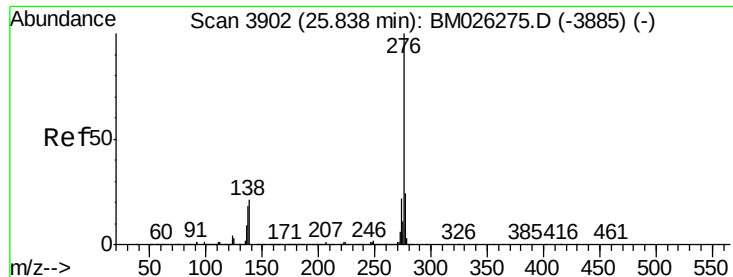
mohammad  
6/18/2020 11:52:43 AM



#91  
Dibenzo(a,h)anthracene  
Concen: 4.286 ng  
RT: 25.16 min Scan# 3786  
Delta R.T. -0.01 min  
Lab File: BM026423.D  
Acq: 16 Jun 2020 21:42

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 34.1  | 12.3       | 18.5  |
| 279     | 29.6  | 18.9       | 28.3  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 18.191 ng  
 RT: 25.78 min Scan# 3892  
 Delta R.T. 0.01 min  
 Lab File: BM026423.D  
 Acq: 16 Jun 2020 21:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 557050 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.3  | 19.0  | 28.4   |
| 138       | 22.2  | 16.2  | 24.4   |

Instrument :  
 BNA\_M  
 ClientSampleId :  
 V-202

Manual Integrations  
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