

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012120\  
 Data File : BM024558.D  
 Acq On : 21 Jan 2020 12:08  
 Operator : JU  
 Sample : L1109-09ME  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GASG8ME

Manual Integrations  
 APPROVED

mohammad  
 1/23/2020 7:57:22 AM

Quant Time: Jan 21 14:41:10 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011520MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 21 11:19:17 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.46  | 152  | 231070   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.21 | 136  | 1003016  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.10 | 164  | 707554   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.86 | 188  | 1523327  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.07 | 240  | 1417625  | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 23.19 | 264  | 1205968  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.06  | 96  | 23044   | 4.87  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.65  | 99  | 546687  | 31.92 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 294106  | 30.91 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 484867  | 33.15 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 476937  | 30.20 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.59  | 128 | 252170  | 35.78 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.31  | 143 | 295638  | 38.73 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.85  | 165 | 547297  | 31.86 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.35 | 131 | 694288  | 36.35 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.53 | 166 | 1683037 | 30.36 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.79 | 160 | 1962526 | 30.76 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.32 | 143 | 287762  | 31.10 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.10 | 176 | 1468580 | 30.09 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.24 | 200 | 241127  | 27.73 | ng/ul | 0.02 |
| 71) Anthracene-d10             | 16.96 | 188 | 2294278 | 32.39 | ng/ul | 0.01 |
| 79) Pyrene-d10                 | 19.26 | 212 | 2685015 | 35.43 | ng/ul | 0.01 |
| 90) Benzo(a)pyrene-d12         | 23.06 | 264 | 2033408 | 32.51 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 41) 1,1'-Biophenyl         | 12.93 | 154 | 573941    | 11.173  | ng/ul 98  |
| 48) Acenaphthylene         | 13.82 | 152 | 1440158   | 22.096  | ng/ul 99  |
| 50) Acenaphthene           | 14.17 | 153 | 727239    | 16.486  | ng/ul 99  |
| 54) Dibenzofuran           | 14.51 | 168 | 3345243   | 51.765  | ng/ul 99  |
| 59) Fluorene               | 15.16 | 166 | 3553936   | 65.044  | ng/ul 98  |
| 70) Phenanthrene           | 16.90 | 178 | 21149008m | 257.436 | ng/ul     |
| 72) Anthracene             | 17.00 | 178 | 6863881   | 81.932  | ng/ul 99  |
| 75) Carbazole              | 17.26 | 167 | 1861197   | 26.404  | ng/ul 99  |
| 77) Fluoranthene           | 18.93 | 202 | 18669630m | 185.941 | ng/ul     |
| 80) Pyrene                 | 19.30 | 202 | 18776944m | 193.484 | ng/ul     |
| 83) Benzo(a)anthracene     | 21.06 | 228 | 10758403  | 111.405 | ng/ul 95  |
| 85) Chrysene               | 21.11 | 228 | 9167544   | 98.518  | ng/ul 98  |
| 88) Benzo(b)fluoranthene   | 22.57 | 252 | 6907464   | 86.659  | ng/ul 99  |
| 89) Benzo(k)fluoranthene   | 22.60 | 252 | 2847510m  | 36.350  | ng/ul     |
| 91) Benzo(a)pyrene         | 23.10 | 252 | 5090396   | 73.487  | ng/ul 100 |
| 92) Indeno(1,2,3-cd)pyrene | 25.26 | 276 | 3036903   | 41.901  | ng/ul 99  |
| 93) Dibenzo(a,h)anthracene | 25.27 | 278 | 885871m   | 14.402  | ng/ul     |
| 94) Benzo(g,h,i)perylene   | 25.89 | 276 | 2517865   | 43.711  | ng/ul 98  |

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

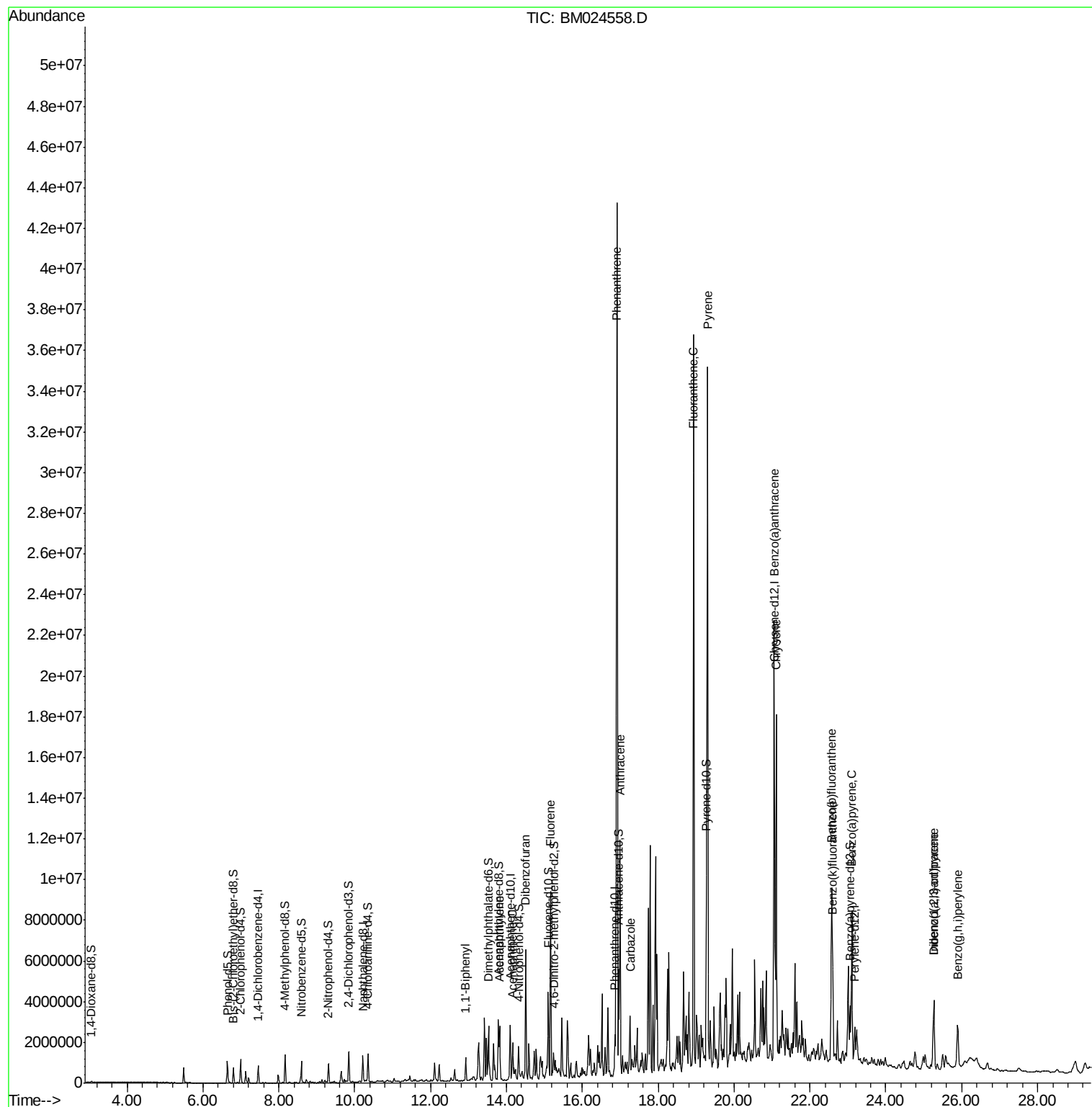
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012120\  
Data File : BM024558.D  
Acq On : 21 Jan 2020 12:08  
Operator : JU  
Sample : L1109-09ME  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

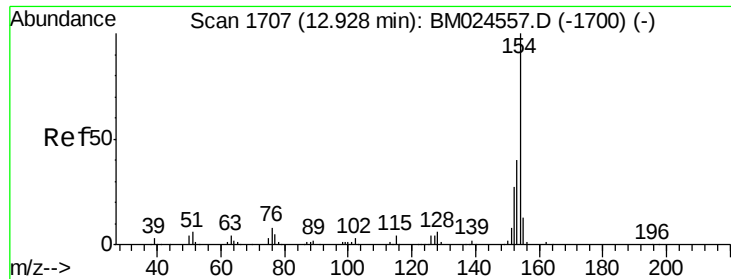
Instrument :  
BNA\_M  
ClientSampleId :  
GASG8ME

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Quant Time: Jan 21 14:41:10 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011520MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jan 21 11:19:17 2020  
Response via : Initial Calibration





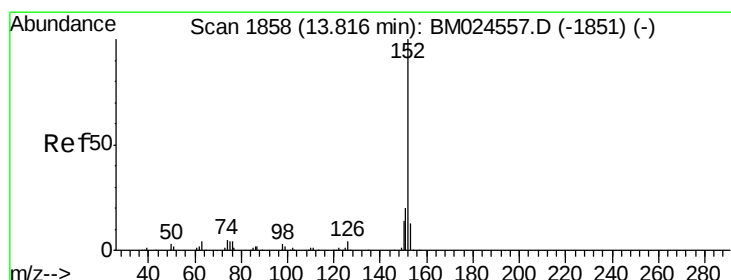
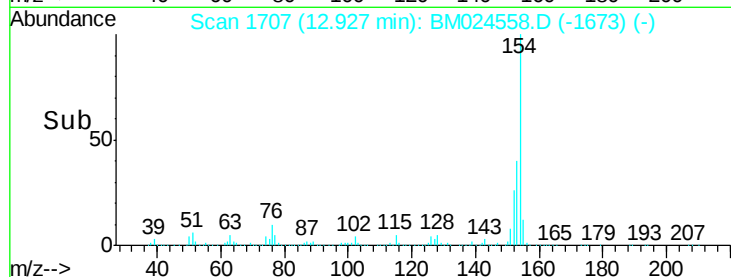
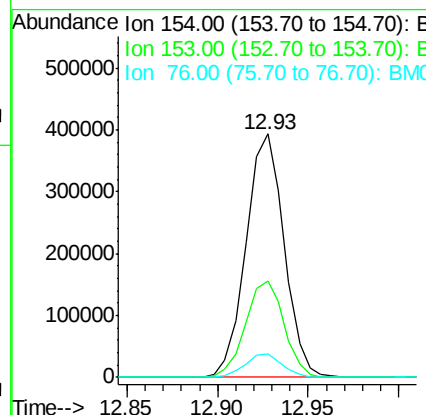
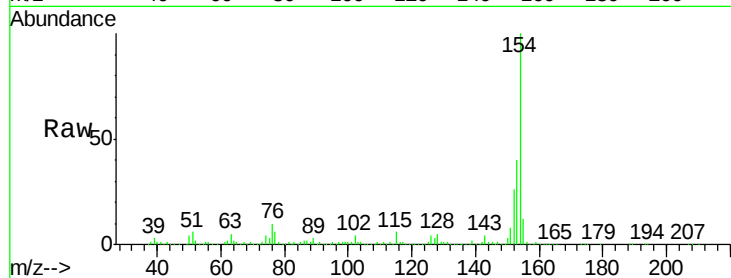
#41  
1,1'-Biphenyl  
Concen: 11.173 ng/ul  
RT: 12.93 min Scan# 1707  
Delta R.T. -0.00 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

Instrument :  
BNA\_M  
ClientSampled :  
GASG8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 39.6  | 32.3  | 48.5  |
| 76      | 9.7   | 7.0   | 10.6  |

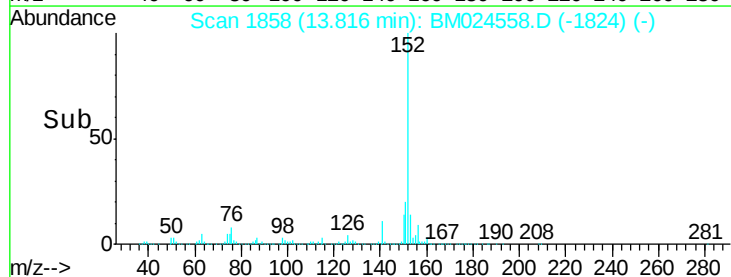
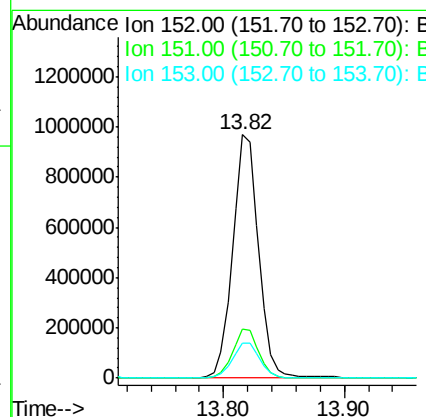
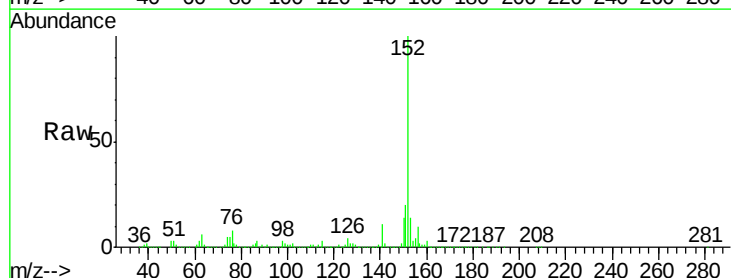
Manual Integrations  
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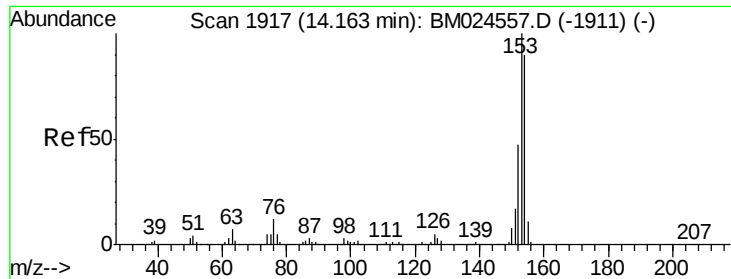
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#48  
Acenaphthylene  
Concen: 22.096 ng/ul  
RT: 13.82 min Scan# 1858  
Delta R.T. -0.00 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.9  | 23.9  |
| 153     | 14.3  | 10.3  | 15.5  |





#50

Acenaphthene

Concen: 16.486 ng/ul

RT: 14.17 min Scan# 1918

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Instrument :

BNA\_M

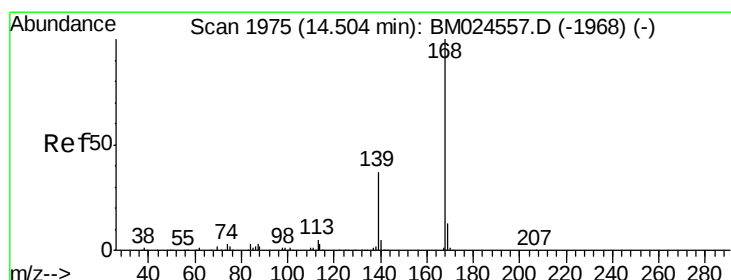
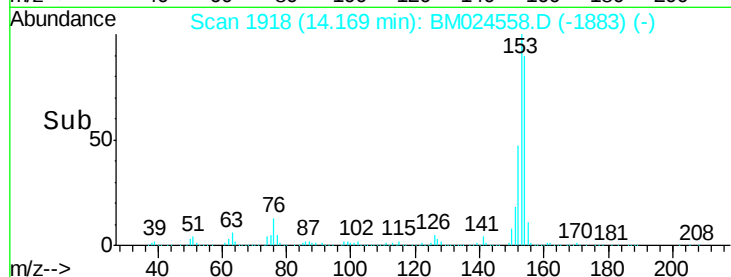
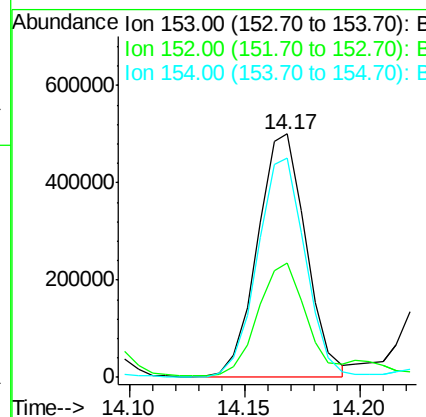
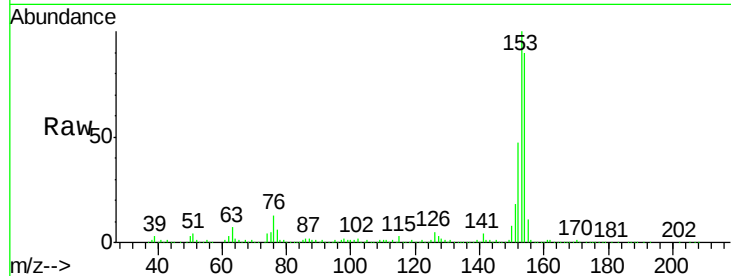
ClientSampleId :

GAS8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.0  | 37.2  | 55.8  |
| 154     | 89.8  | 70.6  | 106.0 |

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#54

Dibenzofuran

Concen: 51.765 ng/ul

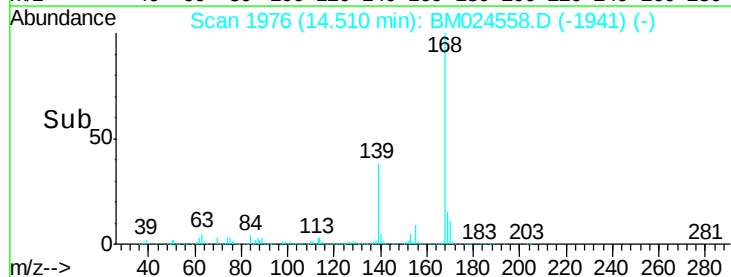
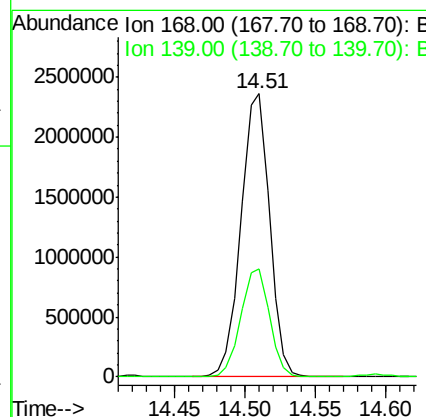
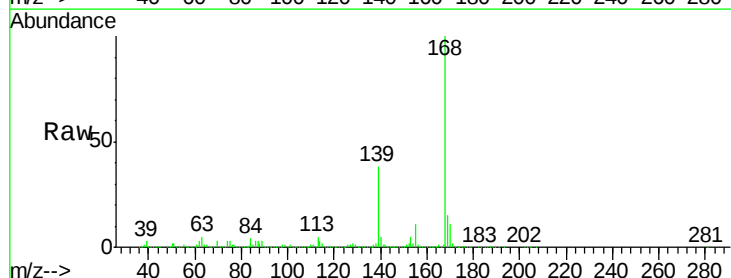
RT: 14.51 min Scan# 1976

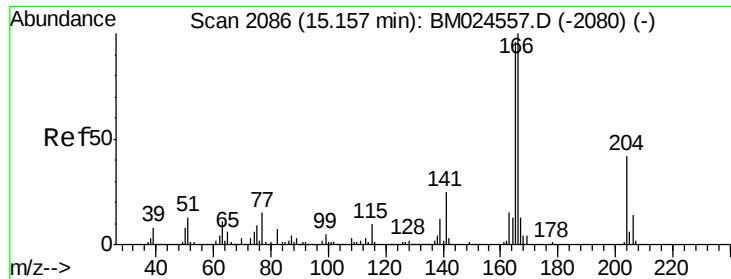
Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 38.0  | 30.7  | 46.1  |





#59

Fluorene

Concen: 65.044 ng/ul

RT: 15.16 min Scan# 2087

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Instrument :

BNA\_M

ClientSampleId :

GAS8ME

Tot Ion:166 Resp: 3553936

Ion Ratio Lower Upper

166 100

165 97.0 79.6 119.4

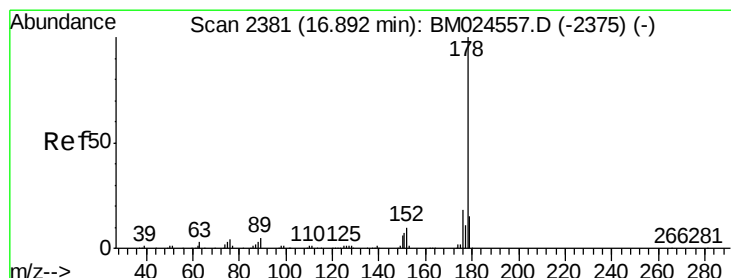
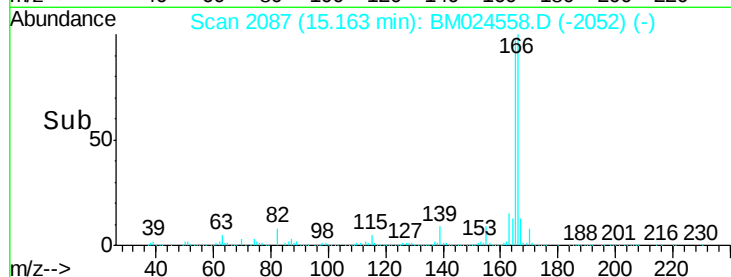
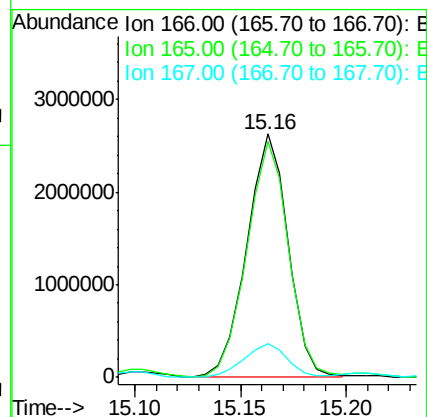
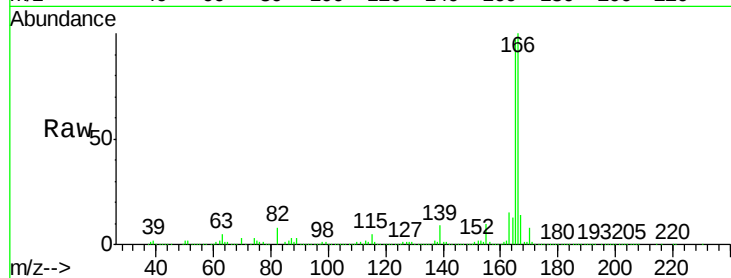
167 13.9 10.8 16.2

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#70

Phenanthrene

Concen: 257.436 ng/ul m

RT: 16.90 min Scan# 2383

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

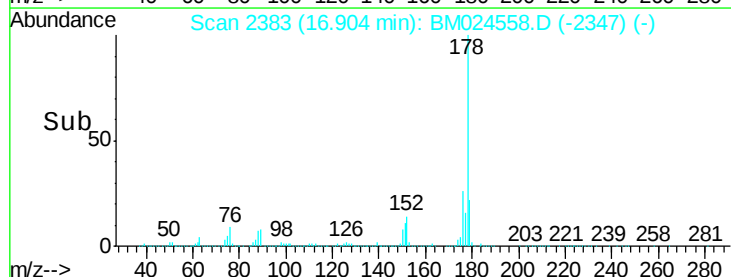
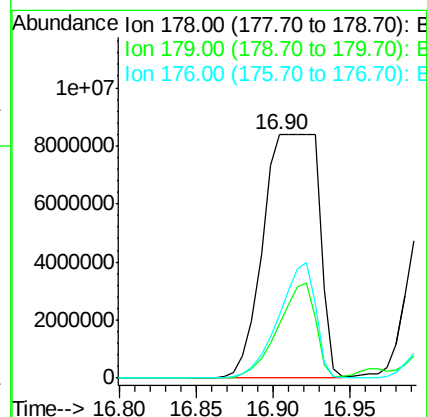
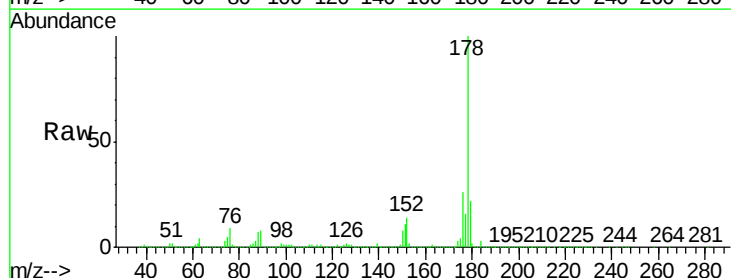
Tgt Ion:178 Resp:21149008

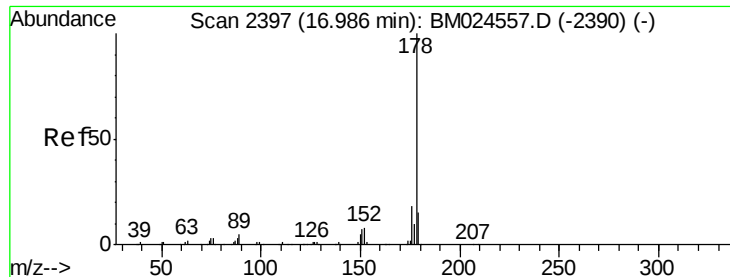
Ion Ratio Lower Upper

178 100

179 22.0 12.3 18.5#

176 25.8 14.9 22.3#





#72

Anthracene

Concen: 81.932 ng/ul

RT: 17.00 min Scan# 2399

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Instrument :

BNA\_M

ClientSampleId :

GASG8ME

Tot Ion:178 Resp: 6863881

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.8  | 12.3  | 18.5  |
| 176 | 18.1  | 14.6  | 22.0  |

178 100

179 15.8 12.3 18.5

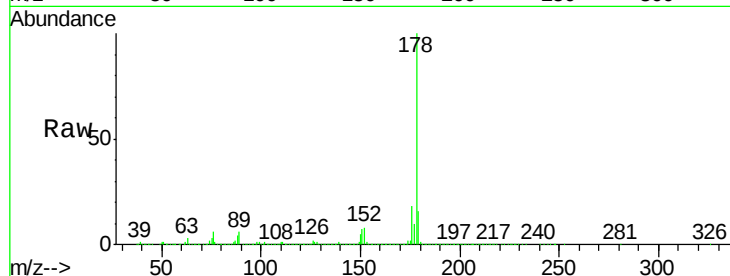
176 18.1 14.6 22.0

Manual Integrations

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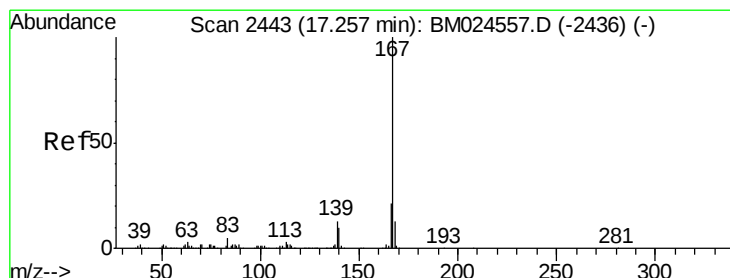
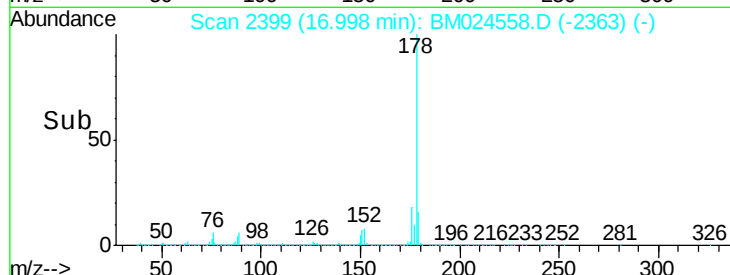
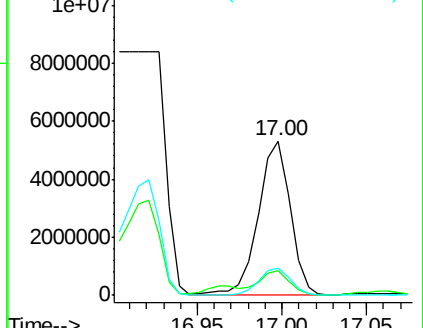
1/23/2020 7:57:22 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#75

Carbazole

Concen: 26.404 ng/ul

RT: 17.26 min Scan# 2444

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Tgt Ion:167 Resp: 1861197

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 21.5  | 17.1  | 25.7  |
| 139 | 12.7  | 10.6  | 15.8  |

167 100

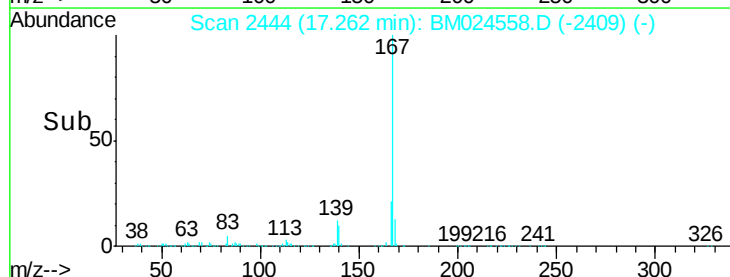
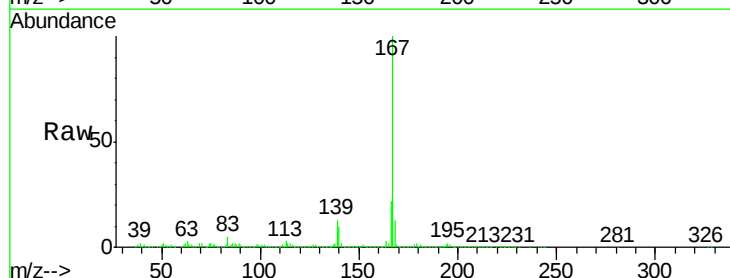
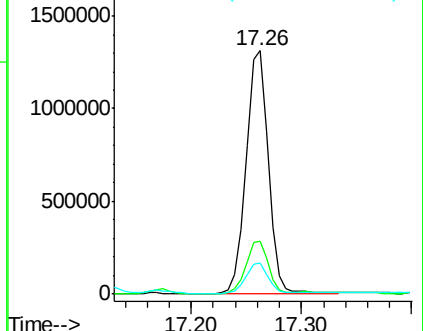
166 21.5 17.1 25.7

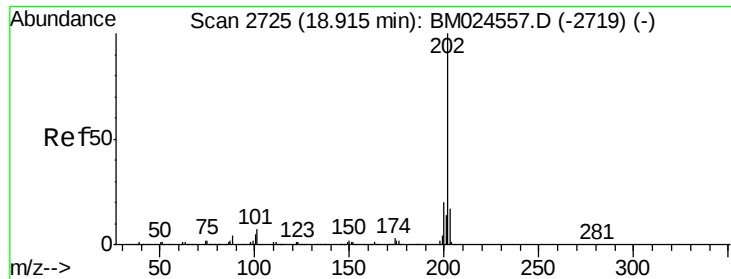
139 12.7 10.6 15.8

Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





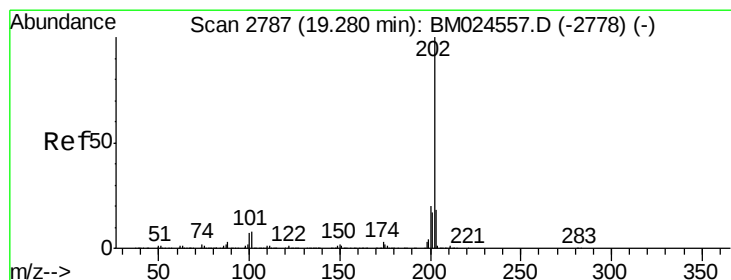
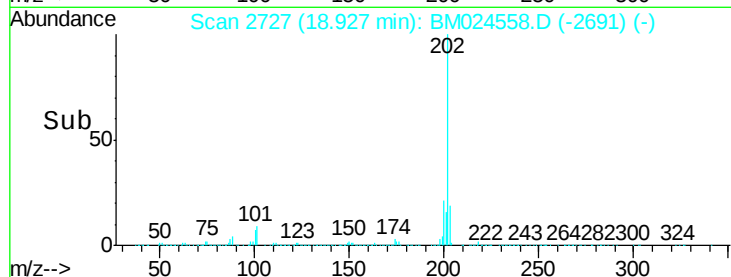
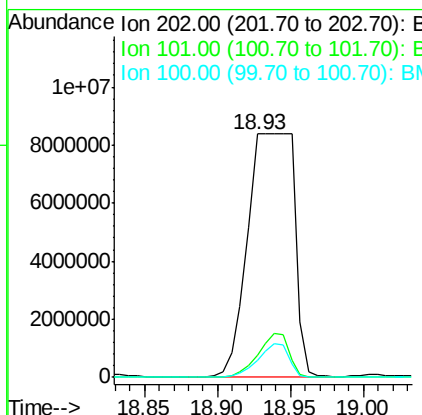
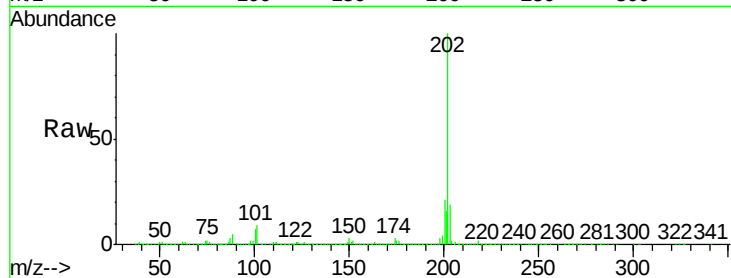
#77  
Fluoranthene  
Concen: 185.941 ng/ul m  
RT: 18.93 min Scan# 2727  
Delta R.T. 0.01 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

Instrument :  
BNA\_M  
ClientSampleId :  
GASG8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.9   | 5.4   | 8.2#  |
| 100     | 7.0   | 4.3   | 6.5#  |

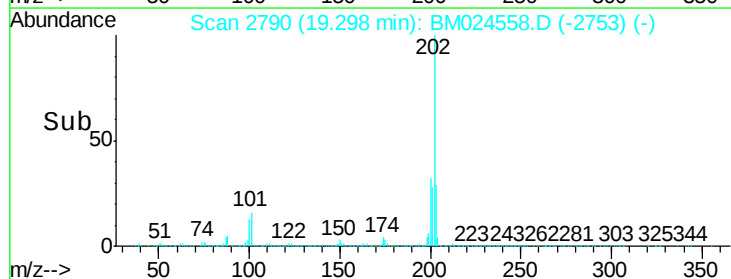
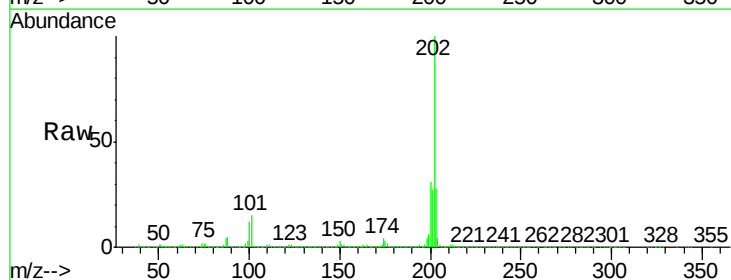
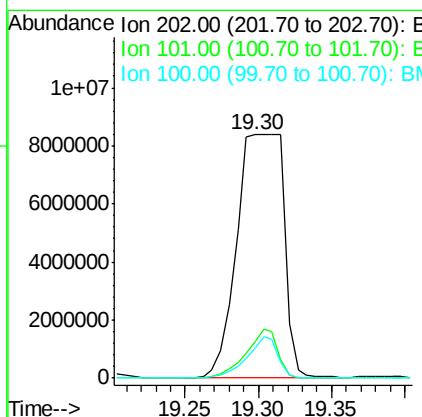
Manual Integrations  
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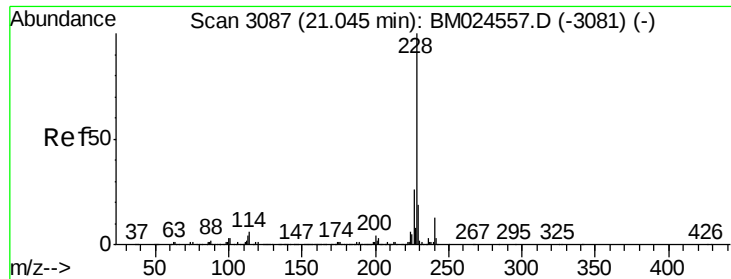
mohammad  
1/23/2020 7:57:22 AM



#80  
Pyrene  
Concen: 193.484 ng/ul m  
RT: 19.30 min Scan# 2790  
Delta R.T. 0.02 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.9  | 6.5   | 9.7#  |
| 100     | 12.4  | 5.0   | 7.6#  |





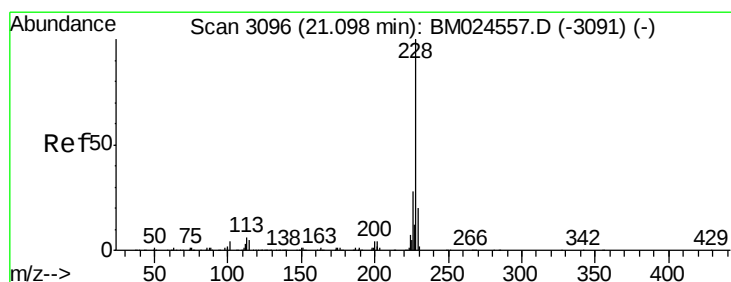
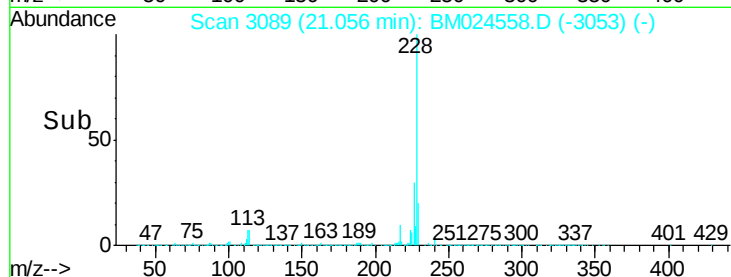
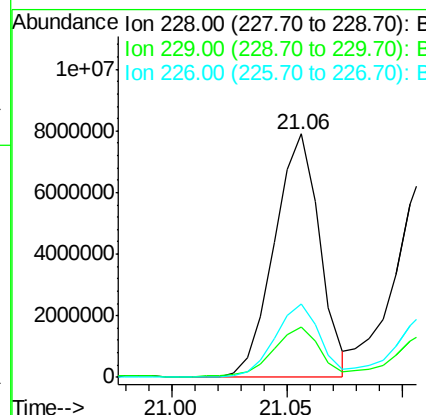
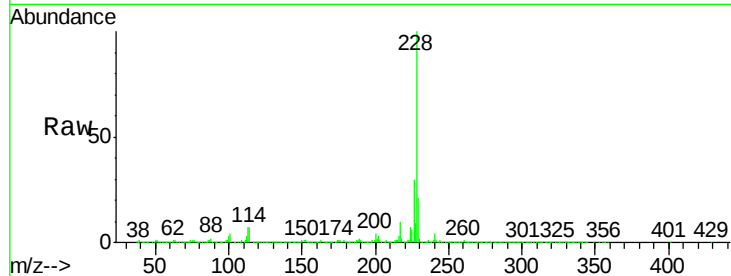
#83  
Benzo(a)anthracene  
Concen: 111.405 ng/ul  
RT: 21.06 min Scan# 3089  
Delta R.T. 0.01 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

Instrument :  
BNA\_M  
ClientSampleId :  
GASG8ME

Tot Ion:228 Resp:10758403  
Ion Ratio Lower Upper  
228 100  
229 20.9 15.9 23.9  
226 30.2 21.1 31.7

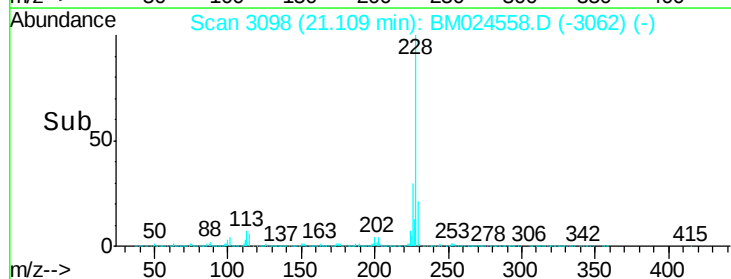
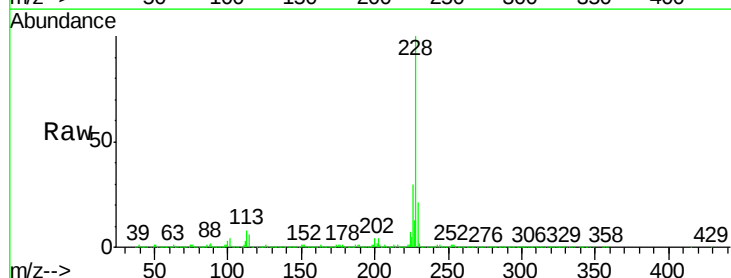
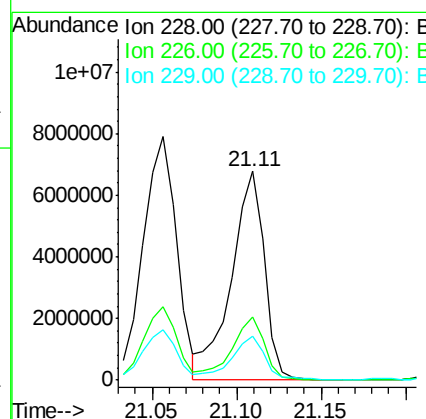
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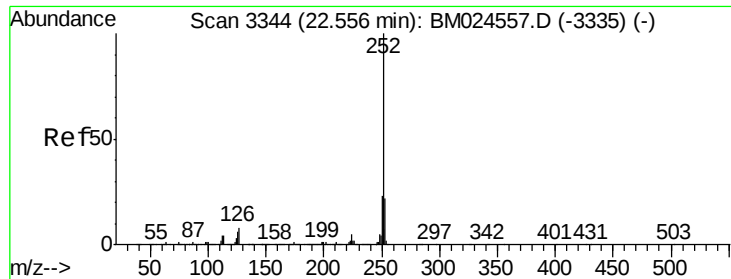
mohammad  
1/23/2020 7:57:22 AM



#85  
Chrysene  
Concen: 98.518 ng/ul  
RT: 21.11 min Scan# 3098  
Delta R.T. 0.01 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

Tgt Ion:228 Resp: 9167544  
Ion Ratio Lower Upper  
228 100  
226 30.3 23.4 35.2  
229 21.3 16.1 24.1





#88

Benzo(b)fluoranthene

Concen: 86.659 ng/ul

RT: 22.57 min Scan# 3346

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Instrument :

BNA\_M

ClientSampleId :

GASG8ME

Tot Ion:252 Resp: 6907464

Ion Ratio Lower Upper

252 100

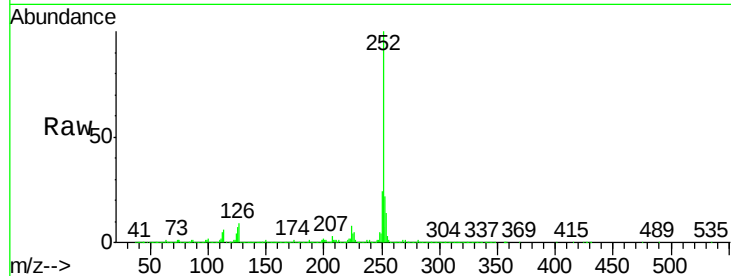
253 22.3 17.8 26.6

125 7.3 5.3 7.9

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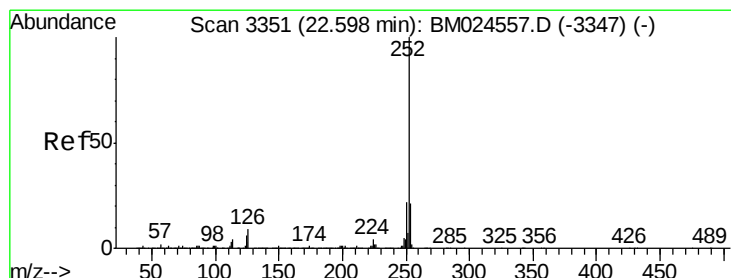
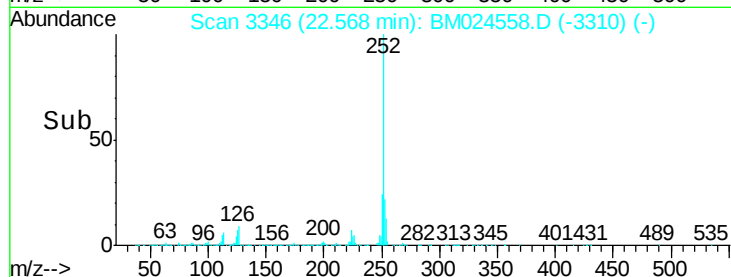
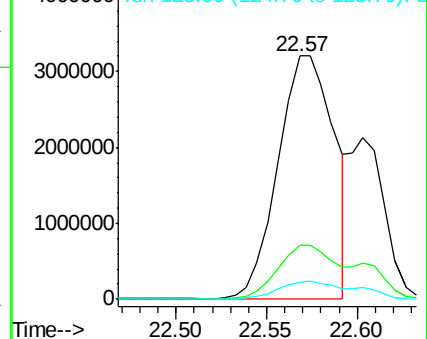
1/23/2020 7:57:22 AM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 36.350 ng/ul m

RT: 22.60 min Scan# 3352

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

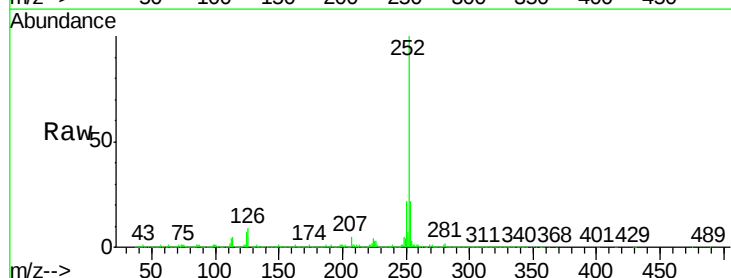
Tgt Ion:252 Resp: 2847510

Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

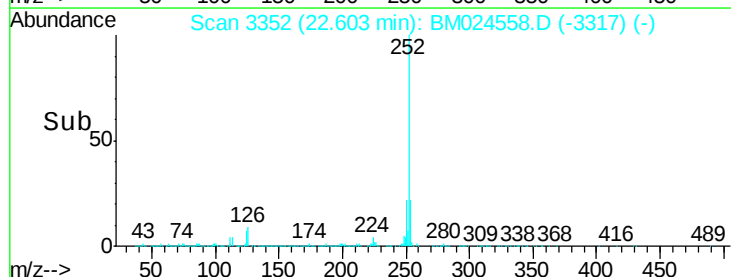
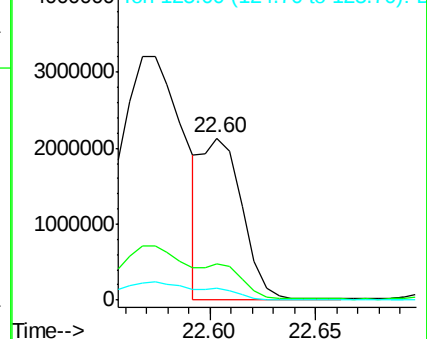
125 7.1 5.2 7.8

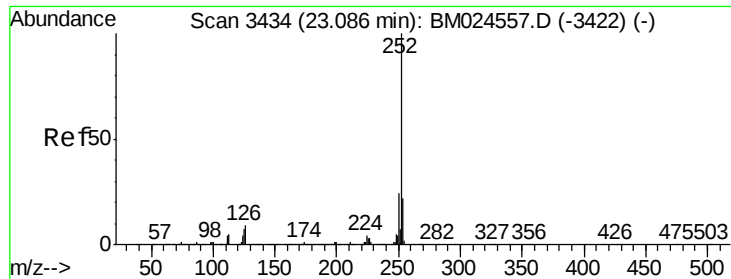


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





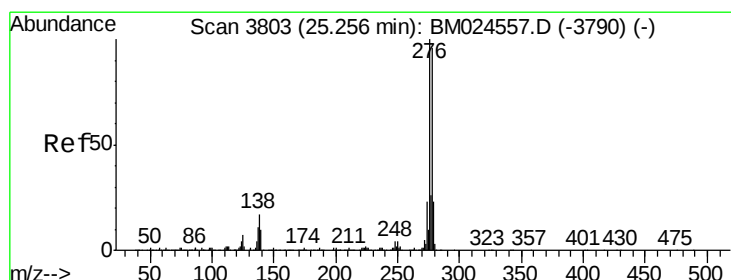
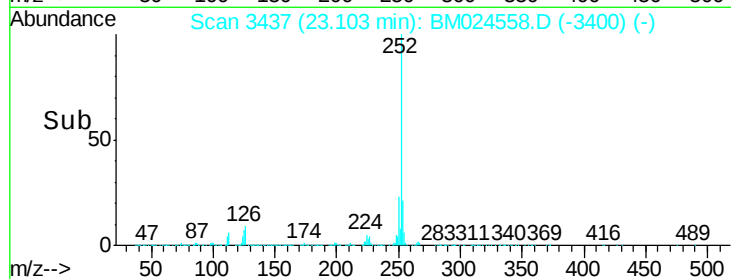
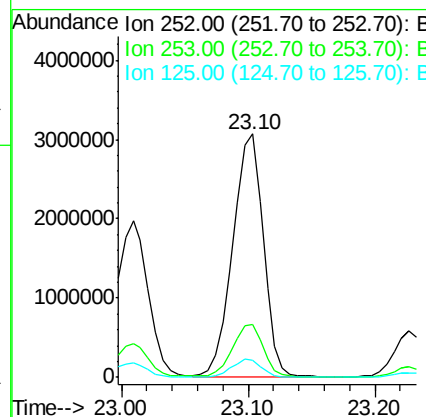
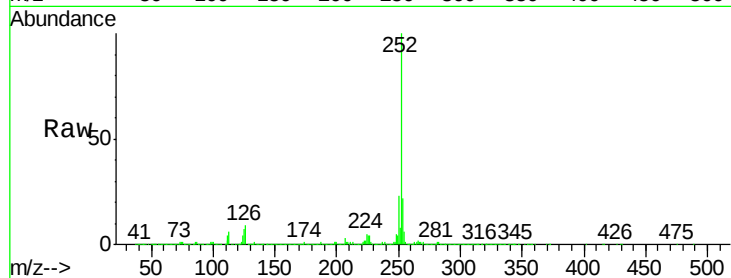
#91  
Benzo(a)pyrene  
Concen: 73.487 ng/ul  
RT: 23.10 min Scan# 3437  
Delta R.T. 0.02 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

Instrument :  
BNA\_M  
ClientSampleId :  
GASG8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.5  | 26.3  |
| 125     | 7.2   | 5.7   | 8.5   |

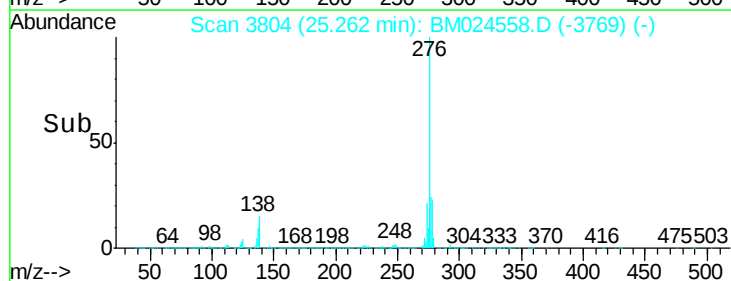
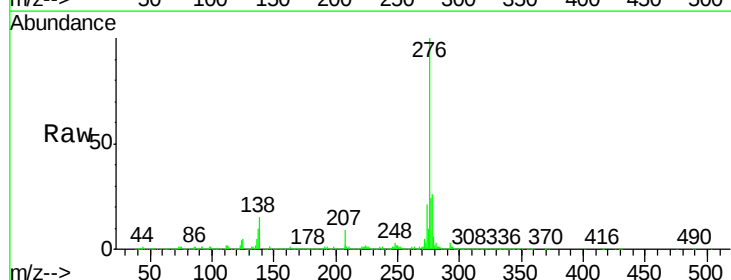
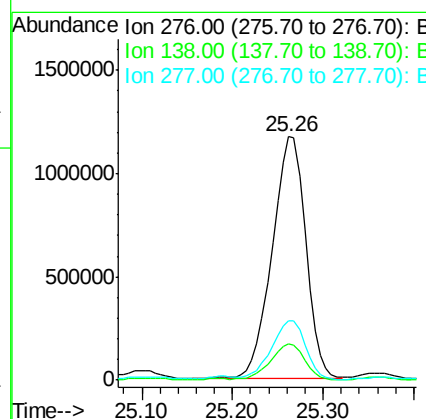
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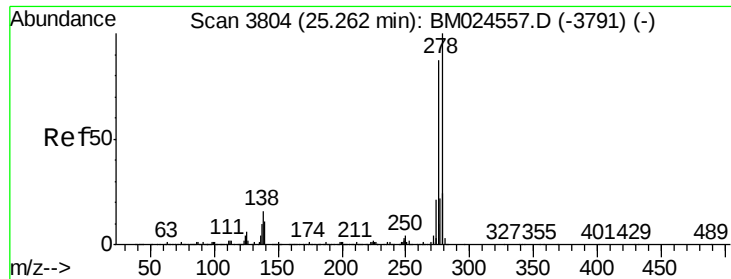
mohammad  
1/23/2020 7:57:22 AM



#92  
Indeno(1,2,3-cd)pyrene  
Concen: 41.901 ng/ul  
RT: 25.26 min Scan# 3804  
Delta R.T. 0.01 min  
Lab File: BM024558.D  
Acq: 21 Jan 2020 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.0  | 12.5  | 18.7  |
| 277     | 24.3  | 19.0  | 28.6  |





#93

Dibenzo(a,h)anthracene

Concen: 14.402 ng/ul m

RT: 25.27 min Scan# 3805

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

Instrument :

BNA\_M

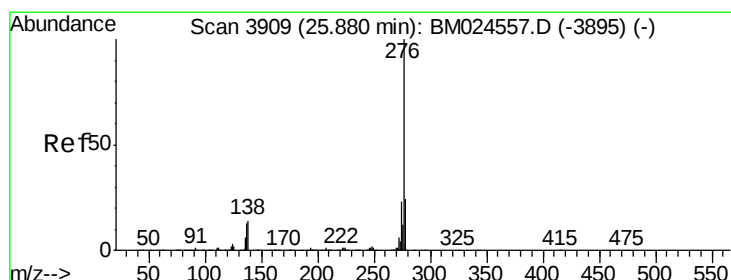
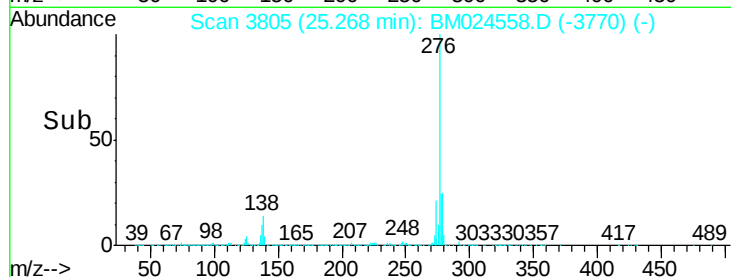
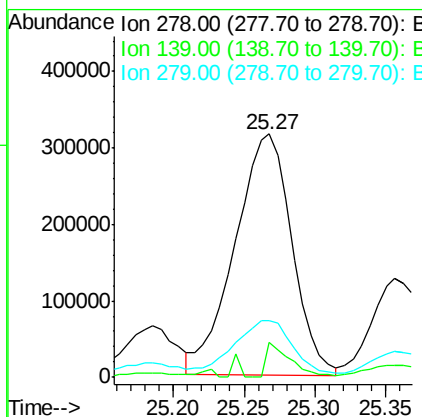
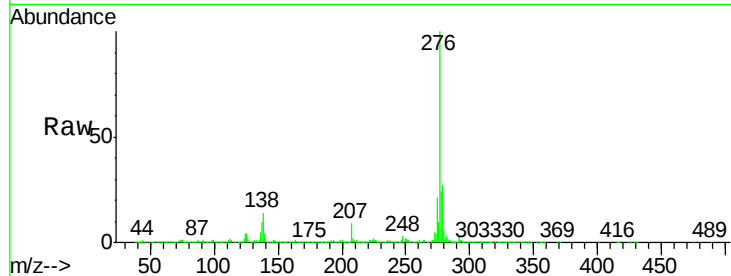
ClientSampleId :

GASG8ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 885871 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 14.6  | 8.7   | 13.1#  |
| 279       | 23.1  | 18.6  | 27.8   |

Manual Integrations  
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mohammad  
1/23/2020 7:57:22 AM



#94

Benzo(g,h,i)perylene

Concen: 43.711 ng/ul

RT: 25.89 min Scan# 3911

Delta R.T. 0.01 min

Lab File: BM024558.D

Acq: 21 Jan 2020 12:08

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 276   | Resp: | 2517865 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 14.3  | 12.2  | 18.2    |
| 277       | 24.6  | 18.8  | 28.2    |

