

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012220\  
 Data File : BM024585.D  
 Acq On : 22 Jan 2020 17:10  
 Operator : JU  
 Sample : L1118-11DL 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 GASK2DL

Manual Integrations  
 APPROVED

mohammad  
 1/23/2020 1:52:38 PM

Quant Time: Jan 22 17:44:52 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011520MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 22 15:40:34 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.45  | 152  | 271764   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.21 | 136  | 1172147  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.10 | 164  | 770600   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.86 | 188  | 1687937  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.06 | 240  | 1519151  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.19 | 264  | 1370754  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

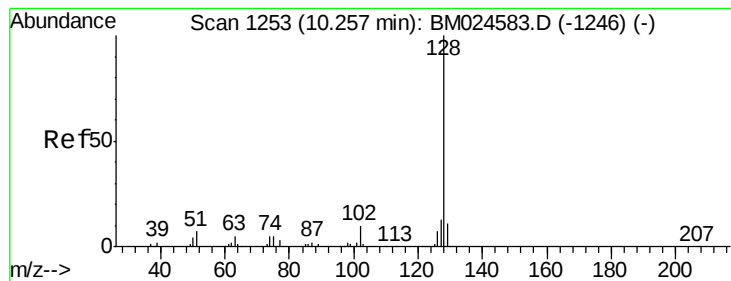
|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.06  | 96  | 1957   | 0.35 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.65  | 99  | 58089  | 2.88 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 38987  | 3.48 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.99  | 132 | 55278  | 3.21 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 56227  | 3.03 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.59  | 128 | 27119  | 3.29 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.30  | 143 | 32380  | 3.63 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.84  | 165 | 63499  | 3.16 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.35 | 131 | 61883  | 2.77 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.52 | 166 | 198181 | 3.28 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.79 | 160 | 258311 | 3.72 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.32 | 143 | 18067  | 1.79 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.10 | 176 | 192028 | 3.61 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.23 | 200 | 14694  | 1.53 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.95 | 188 | 308893 | 3.94 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.26 | 212 | 335780 | 4.14 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.06 | 264 | 263112 | 3.70 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |         |         | Ovalue |    |
|----------------------------|-------|-----|---------|---------|--------|----|
| 28) Naphthalene            | 10.27 | 128 | 9459885 | 157.535 | ng/ul  | 99 |
| 34) 2-Methylnaphthalene    | 11.89 | 142 | 2724801 | 58.477  | ng/ul  | 99 |
| 41) 1,1'-Biphenyl          | 12.92 | 154 | 238276  | 4.259   | ng/ul  | 99 |
| 48) Acenaphthylene         | 13.82 | 152 | 2036885 | 28.695  | ng/ul  | 99 |
| 50) Acenaphthene           | 14.16 | 153 | 103374  | 2.152   | ng/ul  | 97 |
| 54) Dibenzofuran           | 14.50 | 168 | 309698  | 4.400   | ng/ul  | 98 |
| 59) Fluorene               | 15.16 | 166 | 542568  | 9.118   | ng/ul  | 99 |
| 70) Phenanthrene           | 16.90 | 178 | 2397367 | 26.336  | ng/ul  | 98 |
| 72) Anthracene             | 16.99 | 178 | 842366  | 9.075   | ng/ul  | 98 |
| 77) Fluoranthene           | 18.92 | 202 | 965986  | 8.683   | ng/ul  | 97 |
| 80) Pyrene                 | 19.29 | 202 | 1526586 | 14.679  | ng/ul  | 99 |
| 83) Benzo(a)anthracene     | 21.05 | 228 | 448983  | 4.339   | ng/ul# | 40 |
| 85) Chrysene               | 21.08 | 228 | 1369815 | 13.737  | ng/ul  | 95 |
| 88) Benzo(b)fluoranthene   | 22.56 | 252 | 693402m | 7.653   | ng/ul  |    |
| 89) Benzo(k)fluoranthene   | 22.60 | 252 | 163014m | 1.831   | ng/ul  |    |
| 91) Benzo(a)pyrene         | 23.10 | 252 | 1864315 | 23.679  | ng/ul  | 99 |
| 92) Indeno(1,2,3-cd)pyrene | 25.27 | 276 | 2025793 | 24.590  | ng/ul  | 98 |
| 93) Dibenzo(a,h)anthracene | 25.26 | 278 | 409610  | 5.859   | ng/ul# | 89 |
| 94) Benzo(g,h,i)perylene   | 25.89 | 276 | 1628398 | 24.871  | ng/ul  | 99 |

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





#28

Naphthalene

Concen: 157.535 ng/ul

RT: 10.27 min Scan# 1255

Delta R.T. 0.01 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

Instrument :

BNA\_M

ClientSampleId :

GASK2DL

Tot Ion:128 Resp: 9459885

Ion Ratio Lower Upper

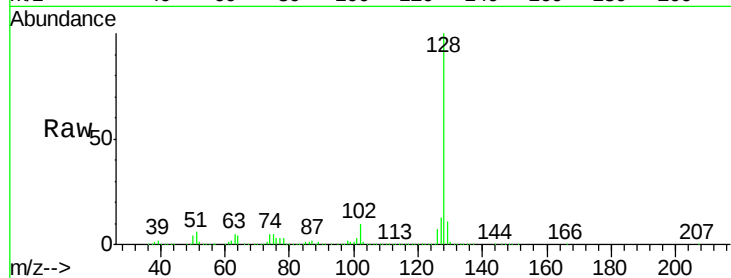
128 100

129 11.0 8.8 13.2

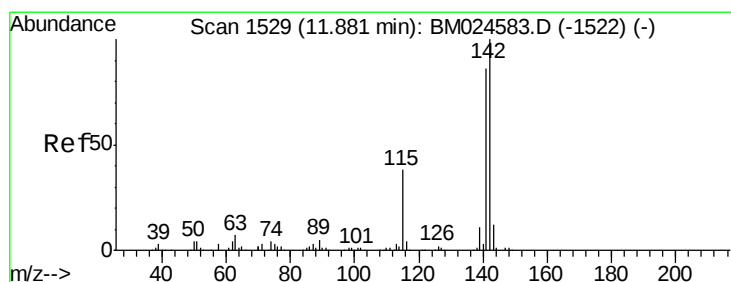
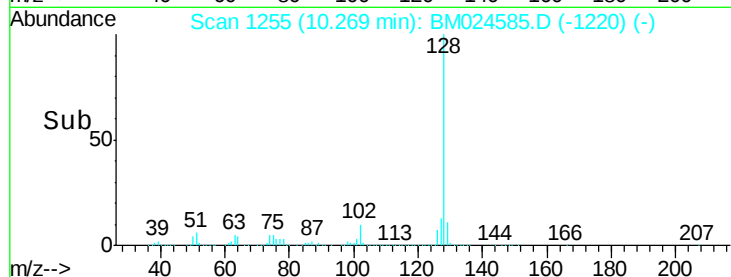
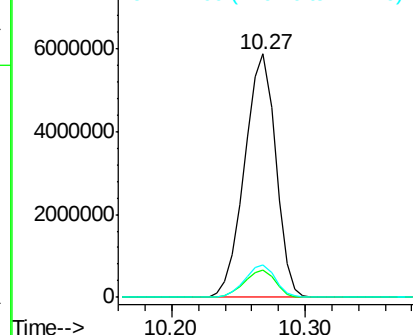
127 13.5 10.4 15.6

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Abundance Ion 128.00 (127.70 to 128.70): E  
8000000  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 58.477 ng/ul

RT: 11.89 min Scan# 1530

Delta R.T. 0.00 min

Lab File: BM024585.D

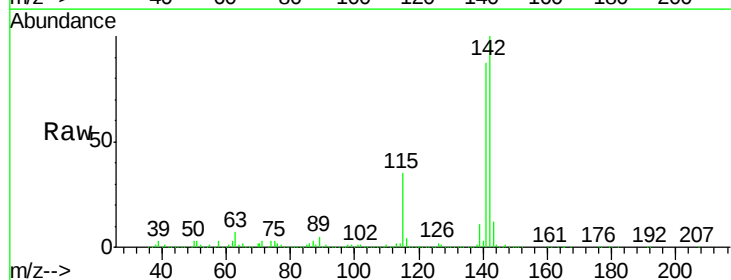
Acq: 22 Jan 2020 17:10

Tgt Ion:142 Resp: 2724801

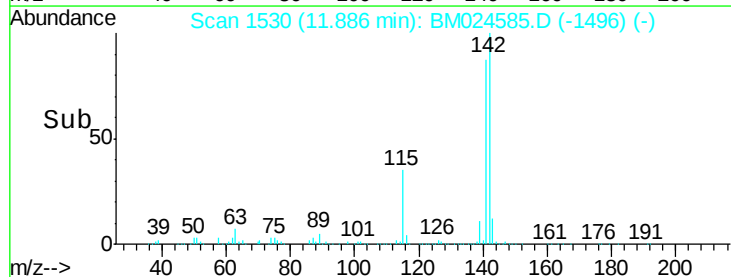
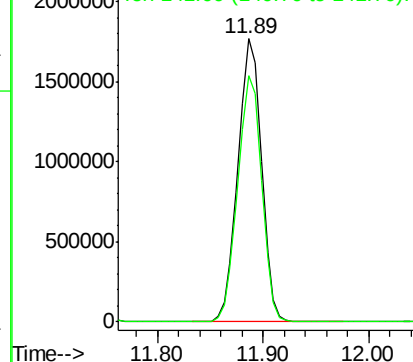
Ion Ratio Lower Upper

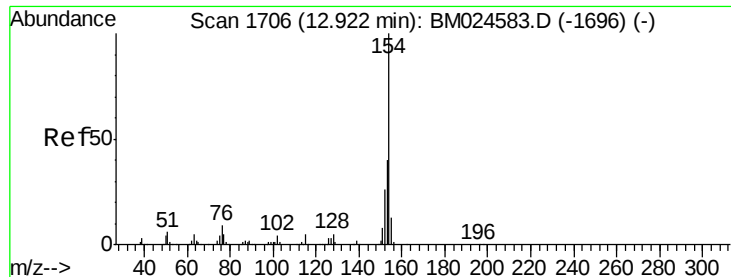
142 100

141 87.0 70.4 105.6



Abundance Ion 142.00 (141.70 to 142.70): E  
2000000  
Ion 141.00 (140.70 to 141.70): E





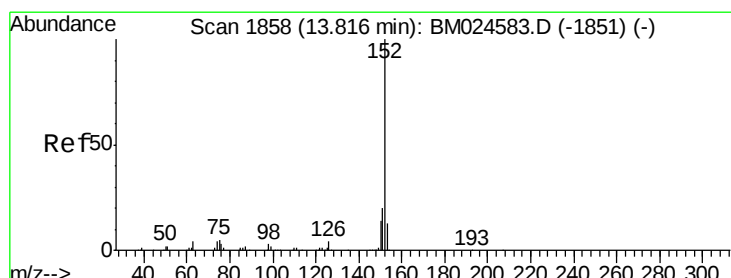
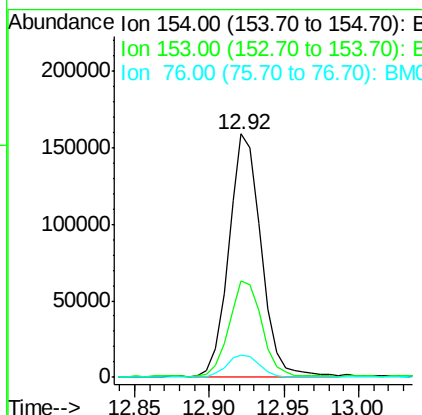
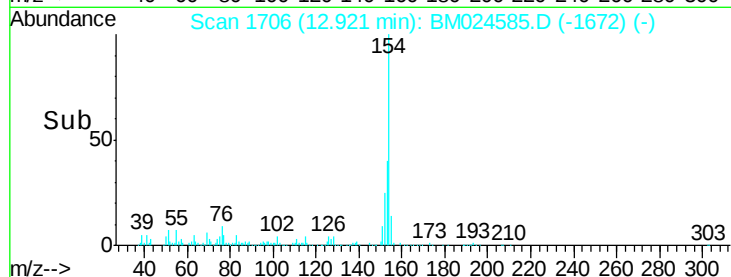
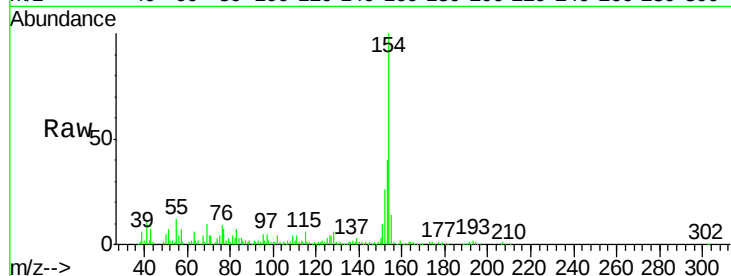
#41  
1,1'-Biphenyl  
Concen: 4.259 ng/ul  
RT: 12.92 min Scan# 1706  
Delta R.T. 0.00 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

Instrument :  
BNA\_M  
ClientSampleId :  
GASK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 238276 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 39.8  | 32.3  | 48.5   |
| 76        | 9.0   | 7.0   | 10.6   |

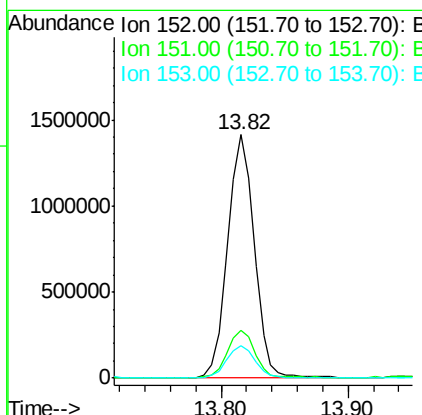
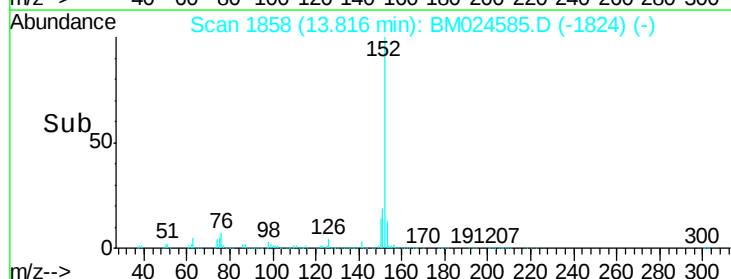
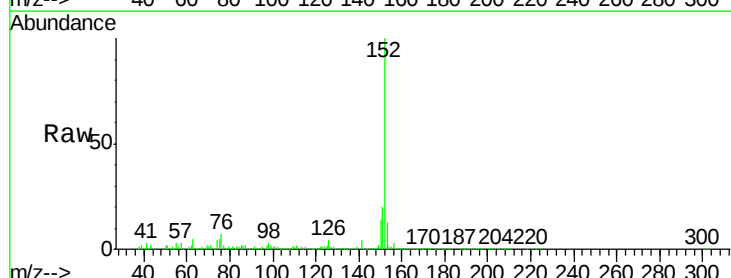
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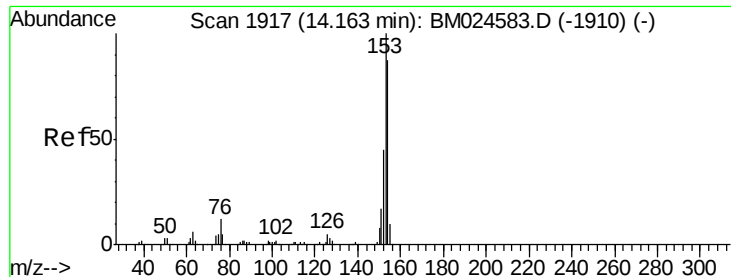
mohammad  
1/23/2020 1:52:38 PM



#48  
Acenaphthylene  
Concen: 28.695 ng/ul  
RT: 13.82 min Scan# 1858  
Delta R.T. -0.00 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 152   | Resp: | 2036885 |
| Ion Ratio | Lower | Upper |         |
| 152       | 100   |       |         |
| 151       | 19.7  | 15.9  | 23.9    |
| 153       | 13.3  | 10.3  | 15.5    |





#50

Acenaphthene

Concen: 2.152 ng/ul

RT: 14.16 min Scan# 1917

Delta R.T. -0.00 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

Instrument :

BNA\_M

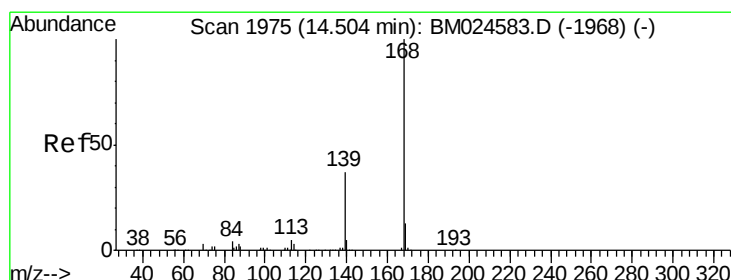
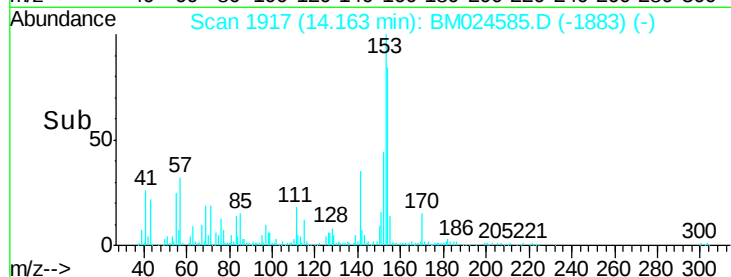
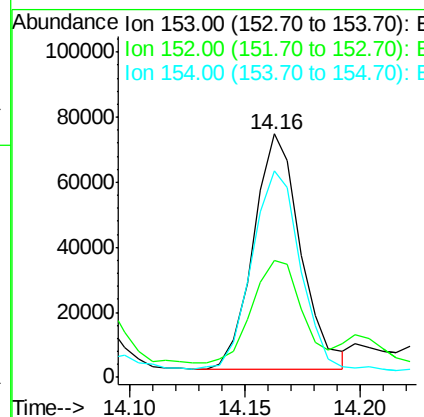
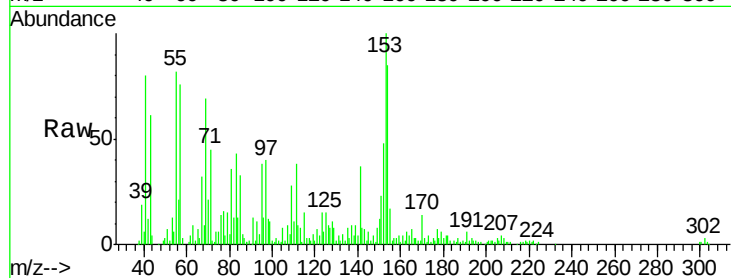
ClientSampled :

GASK2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 153   | Resp: | 103374 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 48.3  | 37.2  | 55.8   |
| 154       | 84.7  | 70.6  | 106.0  |

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#54

Dibenzofuran

Concen: 4.400 ng/ul

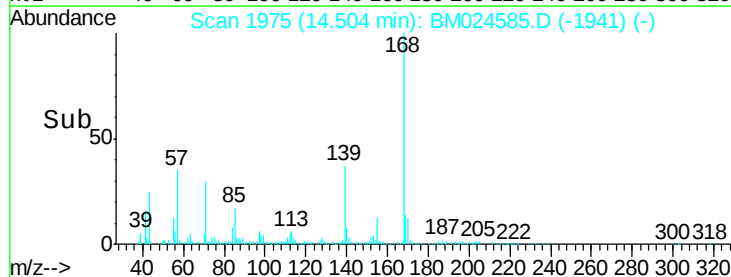
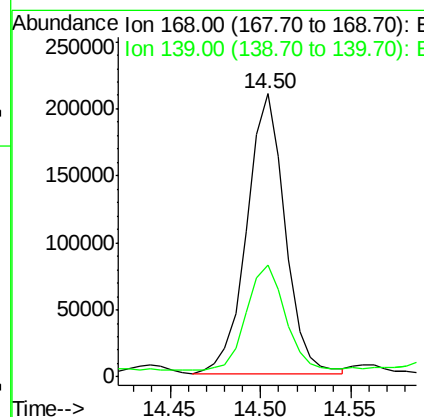
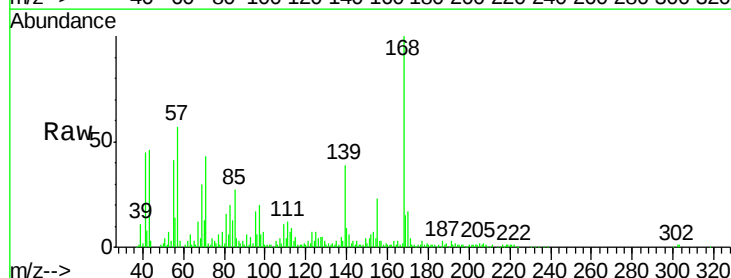
RT: 14.50 min Scan# 1975

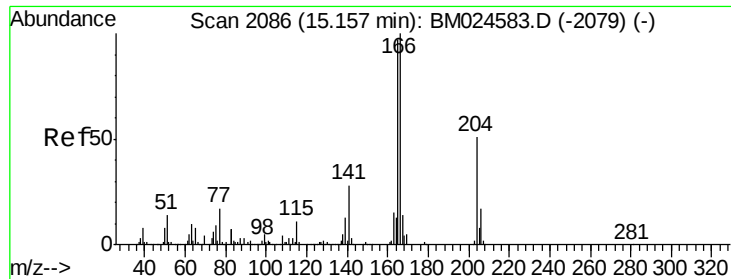
Delta R.T. 0.00 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 309698 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 39.3  | 30.7  | 46.1   |





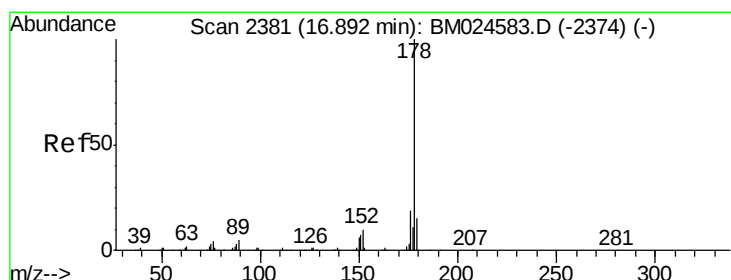
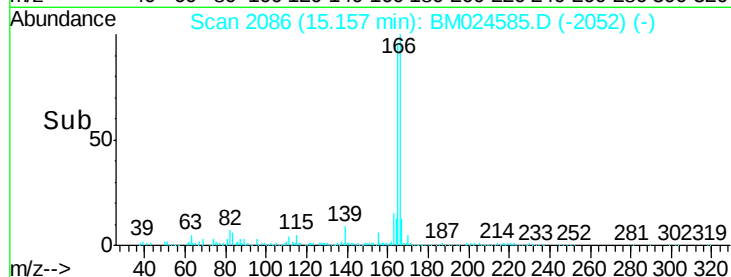
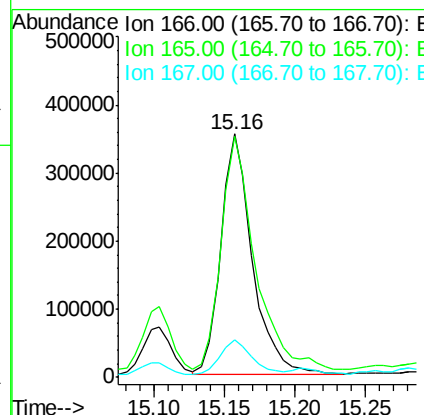
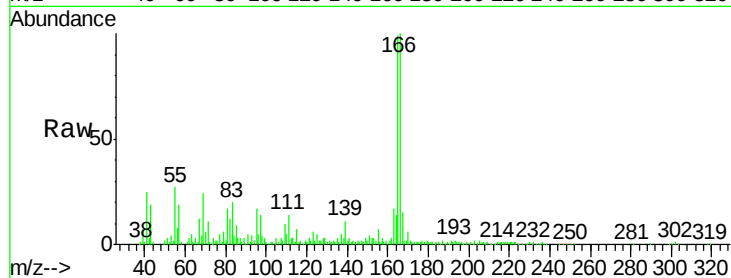
#59  
Fluorene  
Concen: 9.118 ng/ul  
RT: 15.16 min Scan# 2086  
Delta R.T. -0.00 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

Instrument :  
BNA\_M  
ClientSampleId :  
GASK2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.2  | 79.6  | 119.4 |
| 167     | 15.4  | 10.8  | 16.2  |

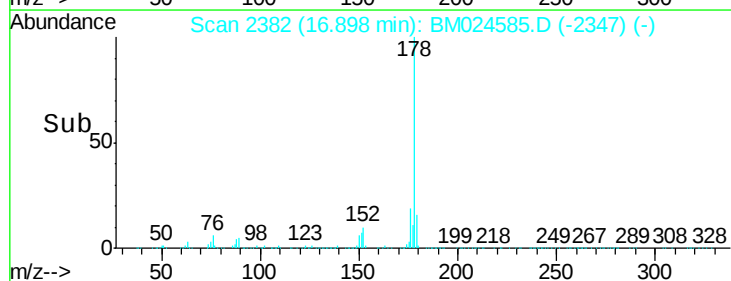
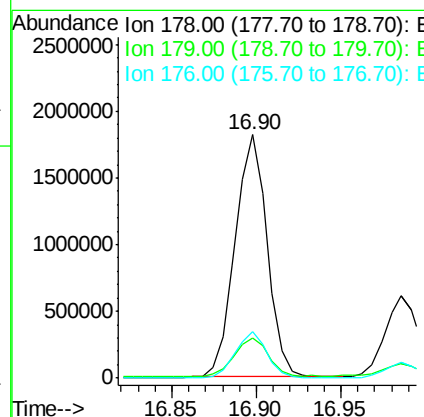
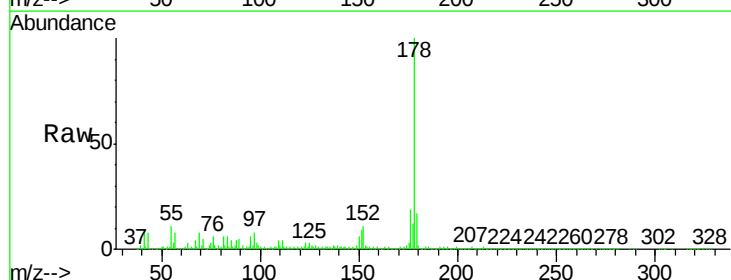
Manual Integrations  
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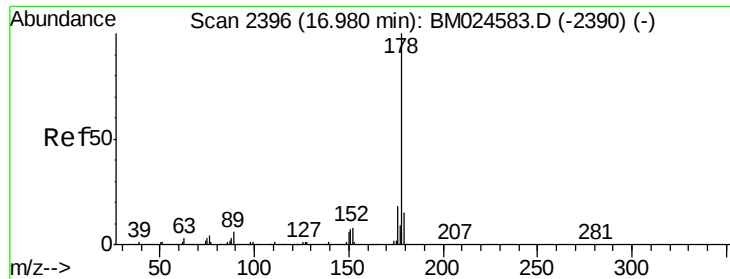
mohammad  
1/23/2020 1:52:38 PM



#70  
Phenanthrene  
Concen: 26.336 ng/ul  
RT: 16.90 min Scan# 2382  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.7  | 12.3  | 18.5  |
| 176     | 18.9  | 14.9  | 22.3  |





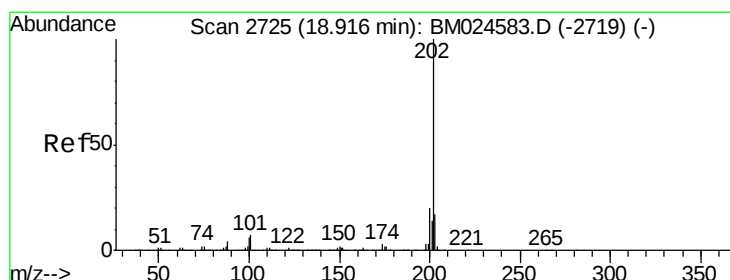
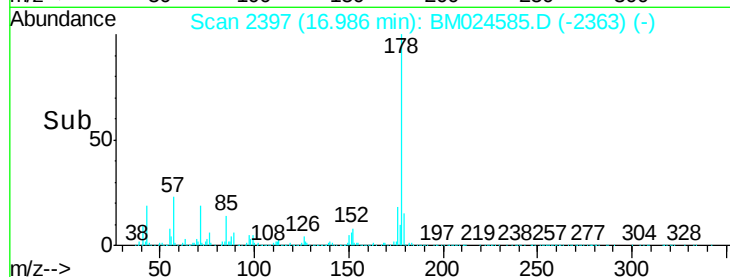
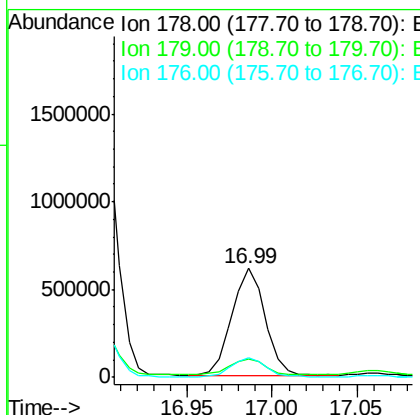
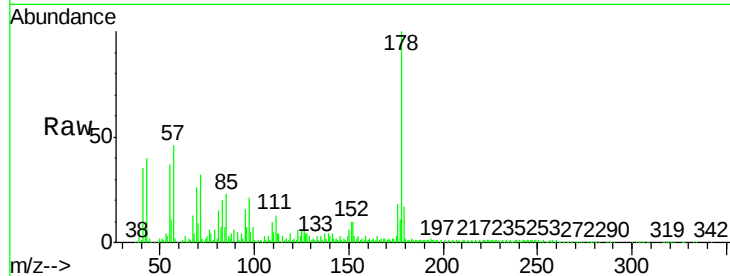
#72  
 Anthracene  
 Concen: 9.075 ng/ul  
 RT: 16.99 min Scan# 2397  
 Delta R.T. -0.00 min  
 Lab File: BM024585.D  
 Acq: 22 Jan 2020 17:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 GASK2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.2  | 12.3  | 18.5  |
| 176     | 18.3  | 14.6  | 22.0  |

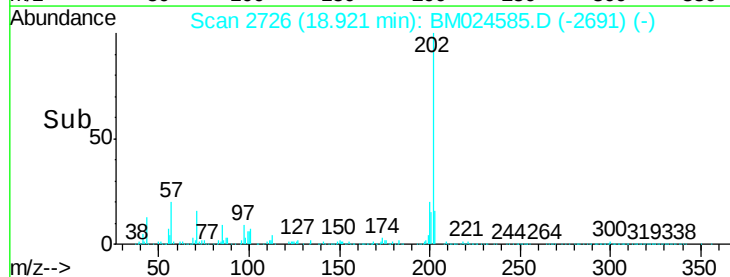
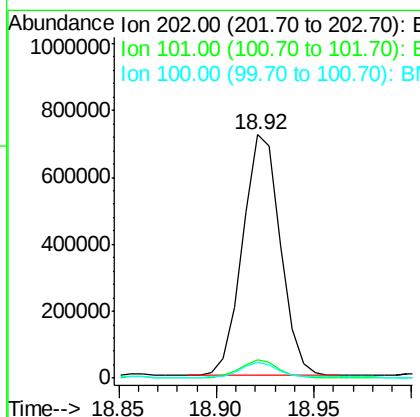
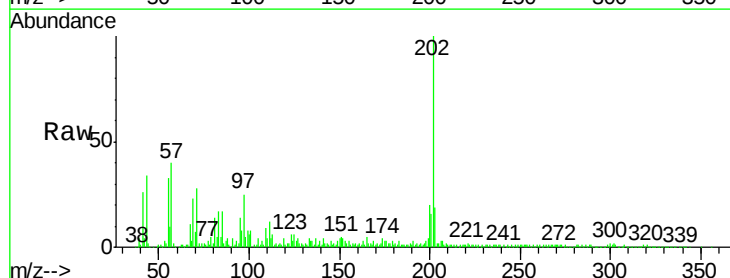
Manual Integrations  
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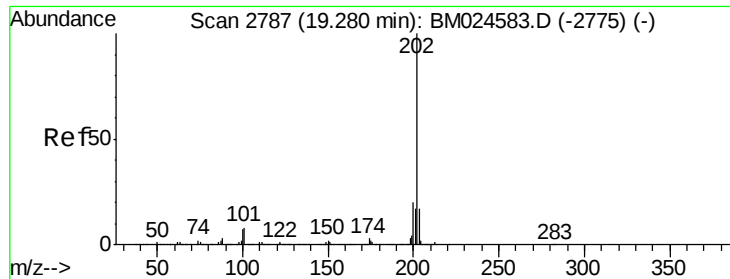
mohammad  
 1/23/2020 1:52:38 PM



#77  
 Fluoranthene  
 Concen: 8.683 ng/ul  
 RT: 18.92 min Scan# 2726  
 Delta R.T. 0.01 min  
 Lab File: BM024585.D  
 Acq: 22 Jan 2020 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.7   | 5.4   | 8.2   |
| 100     | 6.3   | 4.3   | 6.5   |





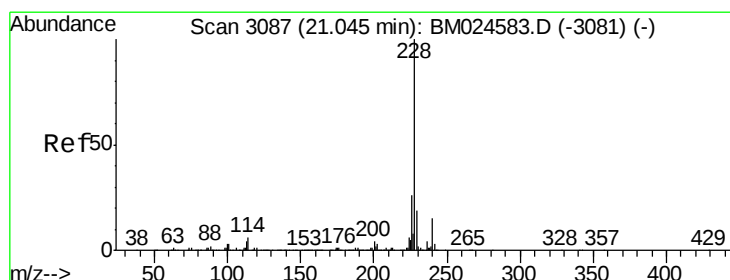
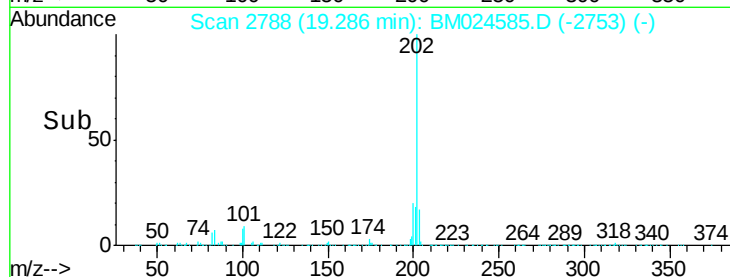
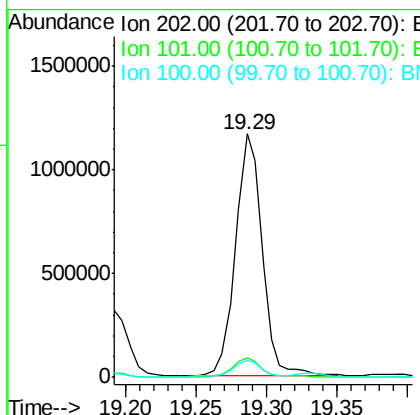
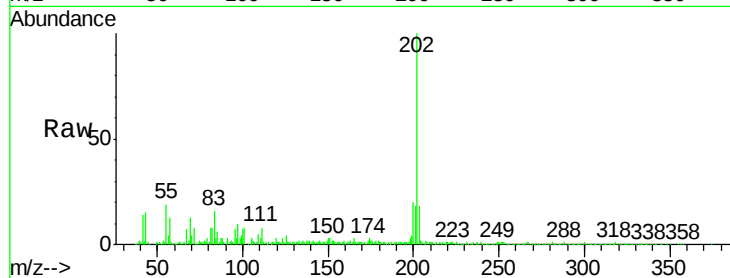
#80  
Pvrene  
Concen: 14.679 ng/ul  
RT: 19.29 min Scan# 2788  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

Instrument :  
BNA\_M  
ClientSampleId :  
GASK2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.2   | 6.5   | 9.7   |
| 100     | 7.2   | 5.0   | 7.6   |

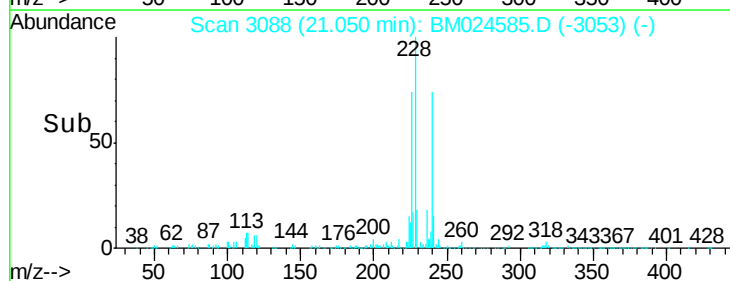
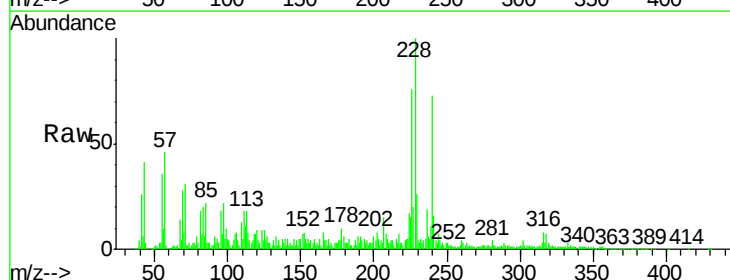
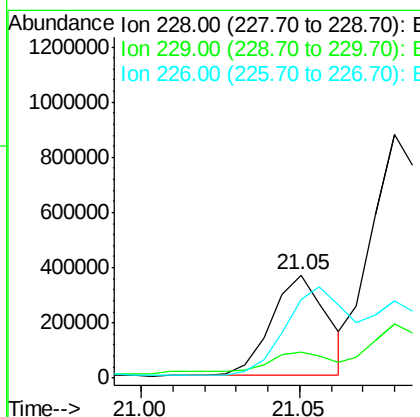
Manual Integrations  
APPROVED

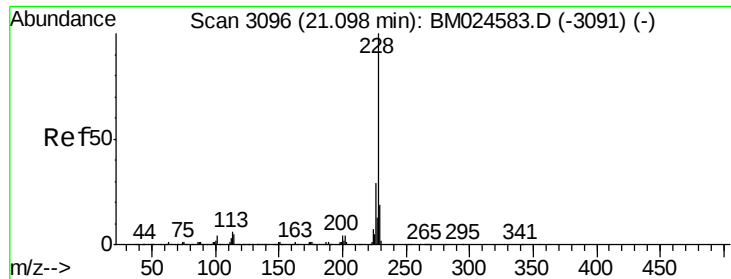
mohammad  
1/23/2020 1:52:38 PM



#83  
Benzo(a)anthracene  
Concen: 4.339 ng/ul  
RT: 21.05 min Scan# 3088  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 25.7  | 15.9  | 23.9# |
| 226     | 75.9  | 21.1  | 31.7# |





#85

Chrysene

Concen: 13.737 ng/ul

RT: 21.08 min Scan# 3093

Delta R.T. -0.02 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

Instrument :

BNA\_M

ClientSampleId :

GASK2DL

Tot Ion:228 Resp: 1369815

Ion Ratio Lower Upper

228 100

226 31.9 23.4 35.2

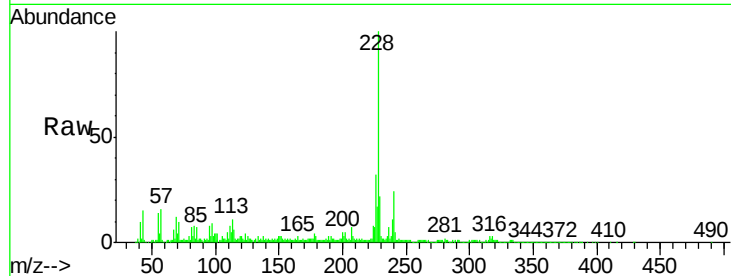
229 22.3 16.1 24.1

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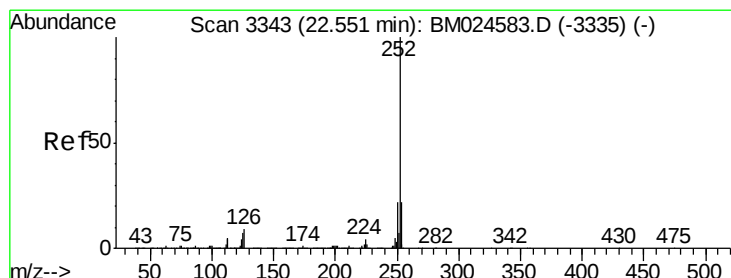
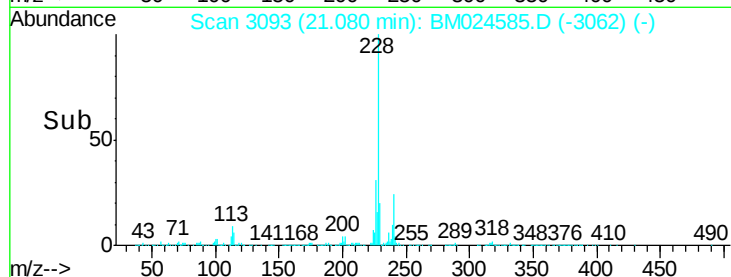
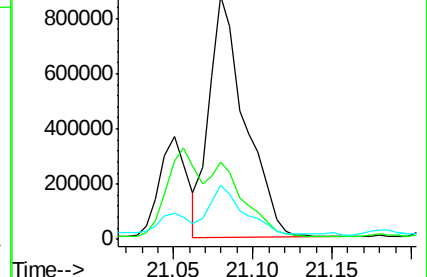
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 7.653 ng/ul m

RT: 22.56 min Scan# 3345

Delta R.T. 0.01 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

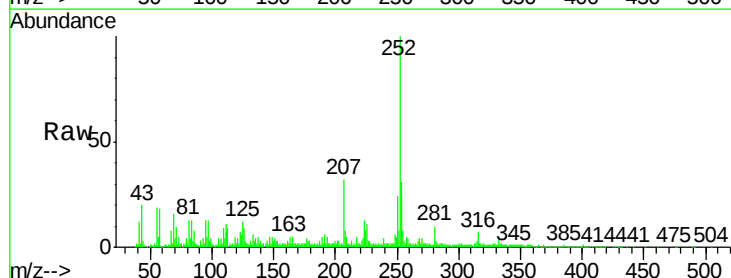
Tgt Ion:252 Resp: 693402

Ion Ratio Lower Upper

252 100

253 24.5 17.8 26.6

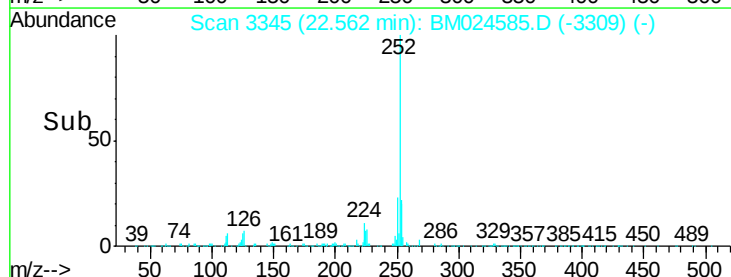
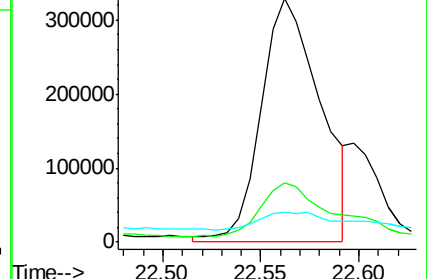
125 12.3 5.3 7.9#

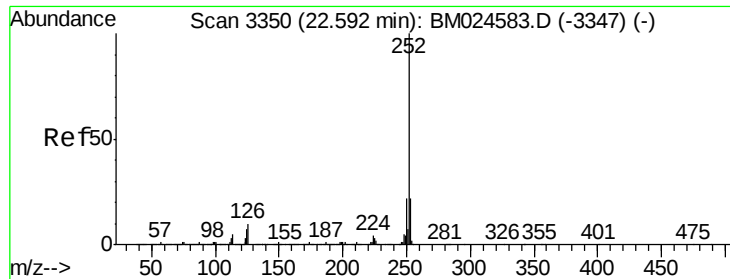


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





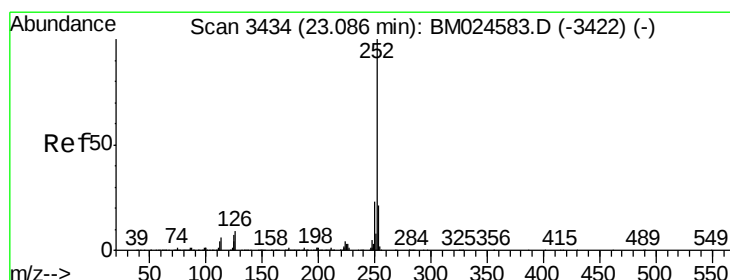
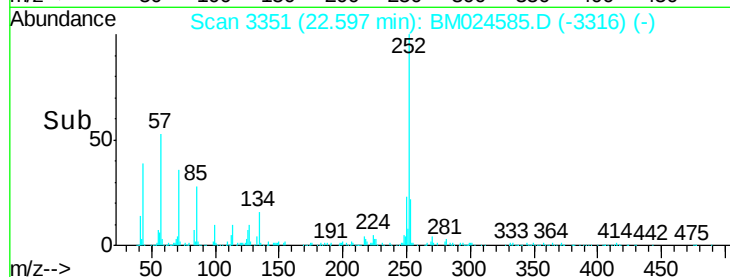
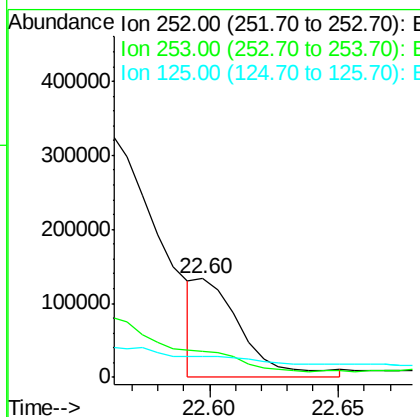
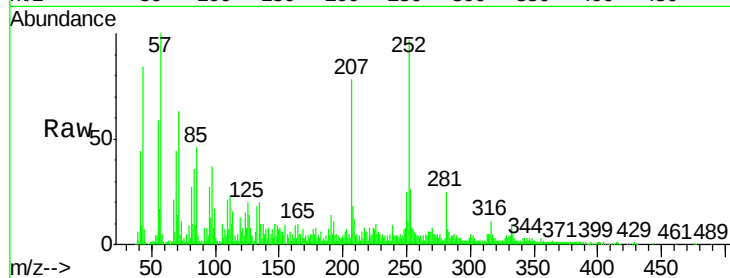
#89  
Benzo(k)fluoranthene  
Concen: 1.831 ng/ul m  
RT: 22.60 min Scan# 3351  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

Instrument :  
BNA\_M  
ClientSampled :  
GASK2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.6  | 17.1  | 25.7# |
| 125     | 20.7  | 5.2   | 7.8#  |

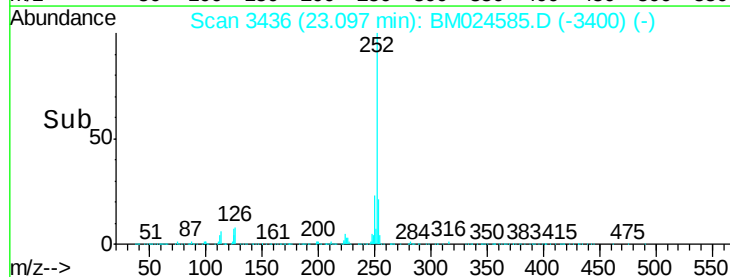
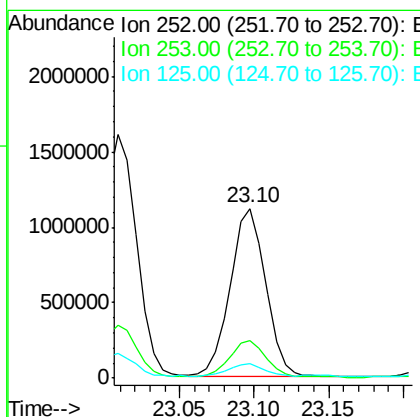
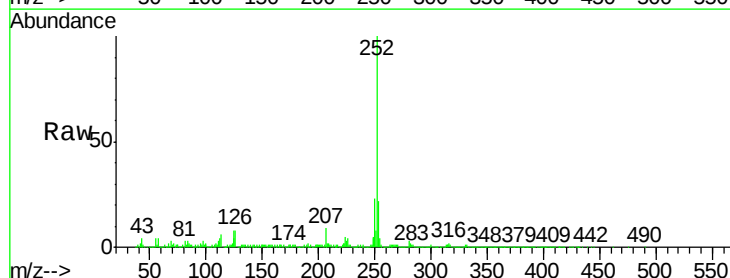
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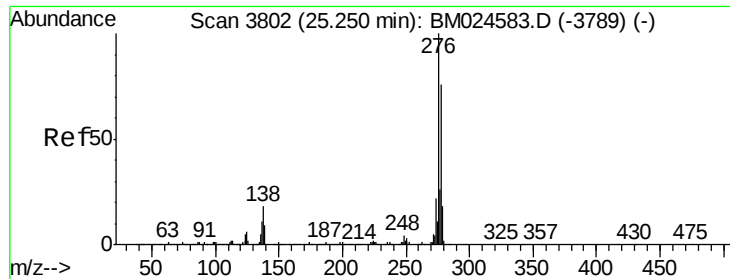
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#91  
Benzo(a)pyrene  
Concen: 23.679 ng/ul  
RT: 23.10 min Scan# 3436  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.5  | 26.3  |
| 125     | 8.4   | 5.7   | 8.5   |





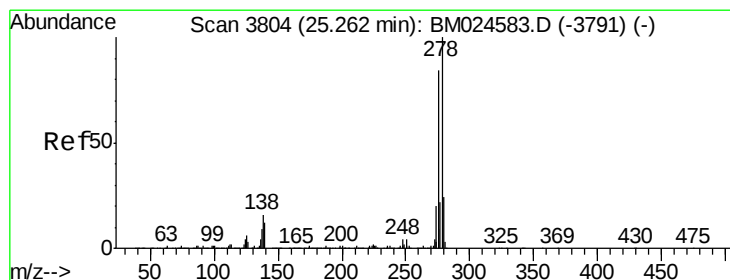
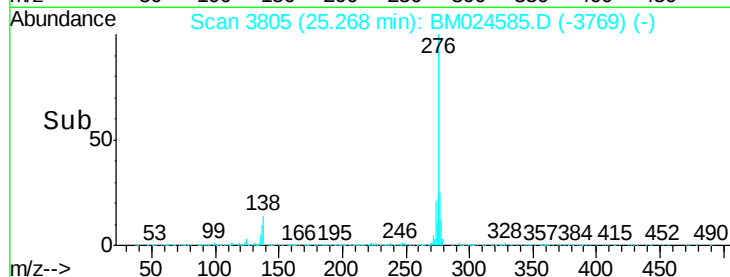
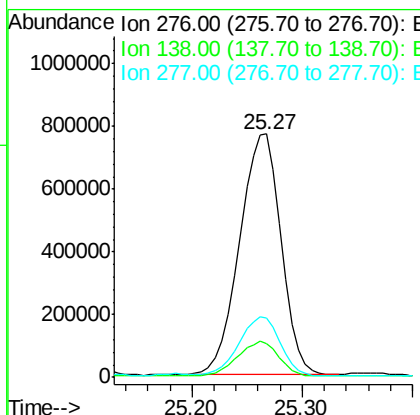
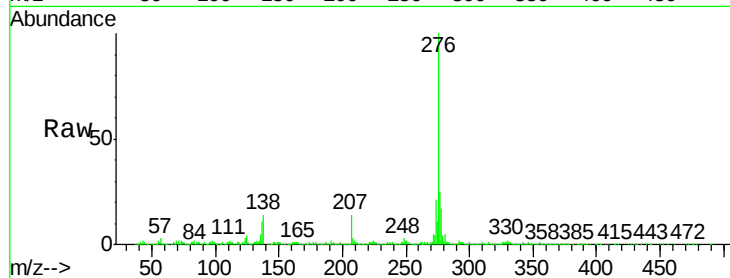
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 24.590 ng/ul  
RT: 25.27 min Scan# 3805  
Delta R.T. 0.01 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

Instrument :  
BNA\_M  
ClientSampled :  
GASK2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.0  | 12.5  | 18.7  |
| 277     | 24.6  | 19.0  | 28.6  |

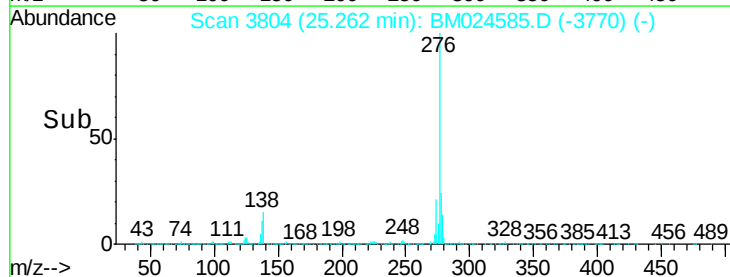
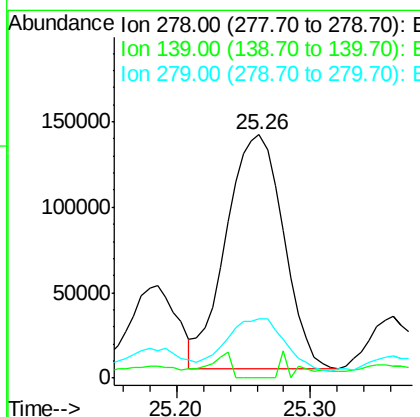
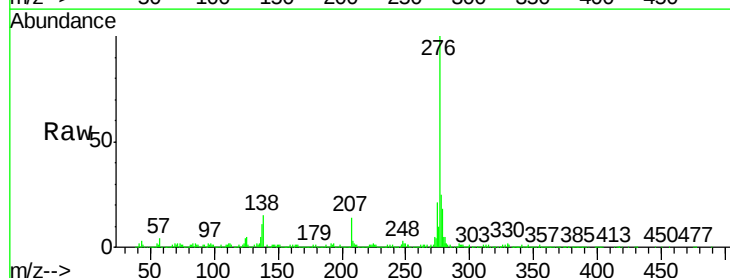
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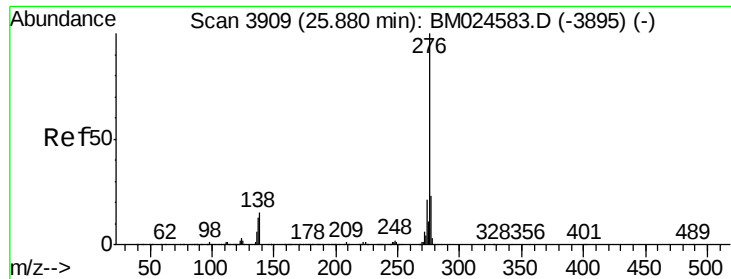
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1/23/2020 1:52:38 PM



#93  
Dibenzo(a,h)anthracene  
Concen: 5.859 ng/ul  
RT: 25.26 min Scan# 3804  
Delta R.T. -0.00 min  
Lab File: BM024585.D  
Acq: 22 Jan 2020 17:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 8.7   | 13.1# |
| 279     | 24.4  | 18.6  | 27.8  |





#94

Benzo(a,h,i)perylene

Concen: 24.871 ng/ul

RT: 25.89 min Scan# 3911

Delta R.T. 0.01 min

Lab File: BM024585.D

Acq: 22 Jan 2020 17:10

Instrument :

BNA\_M

ClientSampleId :

GASK2DL

Tot Ion: 276 Resp: 1628398

Ion Ratio Lower Upper

276 100

138 14.9 12.2 18.2

277 23.7 18.8 28.2

Manual Integrations

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