

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
 Data File : BM040538.D  
 Acq On : 02 Jul 2023 13:48  
 Operator : MA/JU  
 Sample : 03243-07  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCGC7

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
 Supervised By :mohammad ahmed 07/03/2023

Quant Time: Jul 03 02:15:31 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jul 01 03:00:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.928  | 152  | 8473     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.740 | 136  | 31260    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.573 | 164  | 16977    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.320 | 188  | 32539    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.506 | 240  | 18251    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.918 | 264  | 18706    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.321  | 96   | 45920    | 3.450 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.323 | 152  | 11309    | 0.258 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.347 | 212  | 18987    | 0.325 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.789 | 128  | 61864    | 0.718 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.400 | 142  | 15628    | 0.309 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.620 | 142  | 6299     | 0.124 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.290 | 152  | 55883    | 0.737 | ng/ul  | 100      |
| 11) Acenaphthene            | 14.633 | 153  | 8001     | 0.125 | ng/ul  | 99       |
| 12) Fluorene                | 15.623 | 166  | 8543     | 0.125 | ng/ul# | 99       |
| 15) Phenanthrene            | 17.362 | 178  | 190426   | 1.884 | ng/ul  | 99       |
| 16) Anthracene              | 17.455 | 178  | 50581    | 0.596 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.375 | 202  | 518647   | 6.690 | ng/ul  | 96       |
| 20) Pyrene                  | 19.742 | 202  | 408037   | 4.909 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.489 | 228  | 222821   | 3.609 | ng/ul  | 96       |
| 22) Chrysene                | 21.541 | 228  | 234609   | 3.332 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.184 | 252  | 388845   | 5.371 | ng/ul  | 89       |
| 25) Benzo(k)fluoranthene    | 23.225 | 252  | 150265m  | 2.106 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.809 | 252  | 227726   | 3.492 | ng/ul# | 84       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.420 | 276  | 250785   | 2.761 | ng/ul# | 86       |
| 28) Dibenzo(a,h)anthracene  | 26.427 | 278  | 58644    | 0.825 | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 27.195 | 276  | 226844   | 2.850 | ng/ul  | 94       |
| -----                       |        |      |          |       |        |          |

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

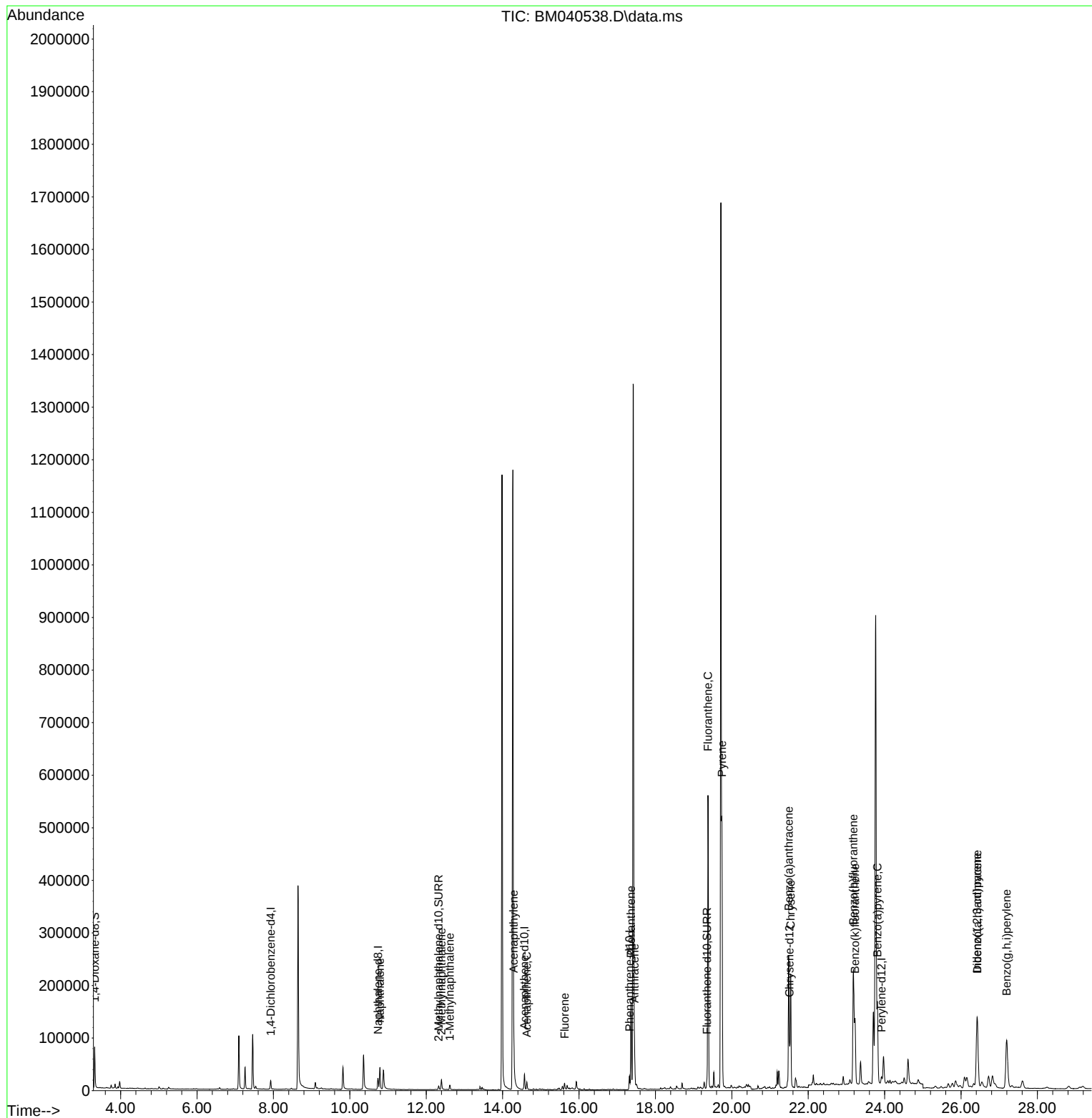
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
Data File : BM040538.D  
Acq On : 02 Jul 2023 13:48  
Operator : MA/JU  
Sample : 03243-07  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

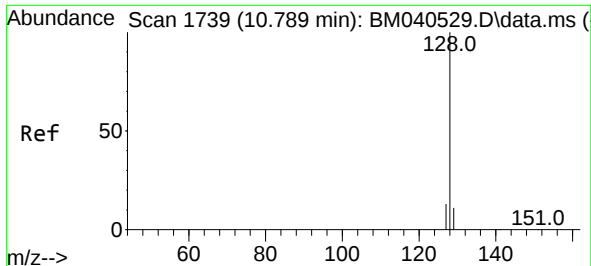
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

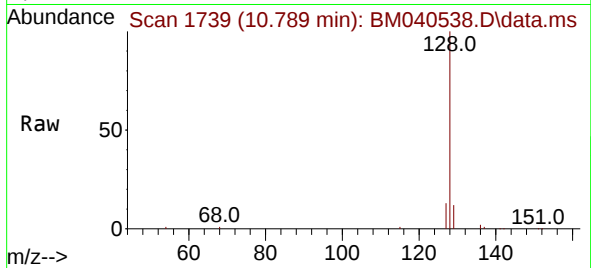
Quant Time: Jul 03 02:15:31 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 01 03:00:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.718 ng/ul  
RT: 10.789 min Scan# 1739  
Delta R.T. -0.005 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

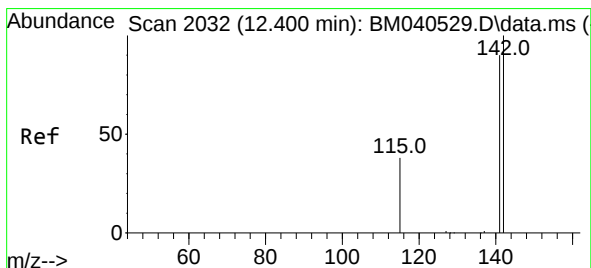
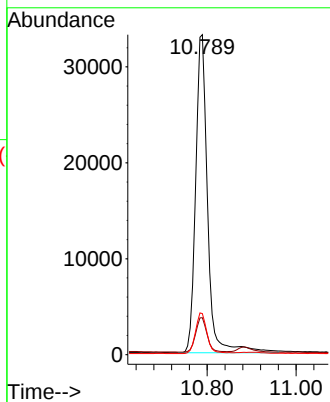
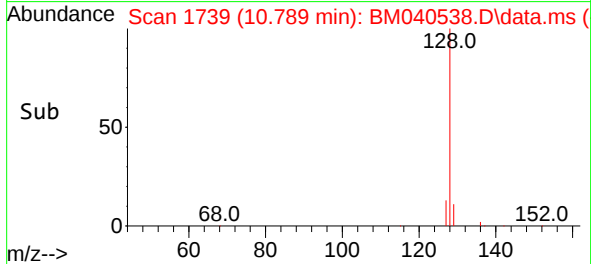
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



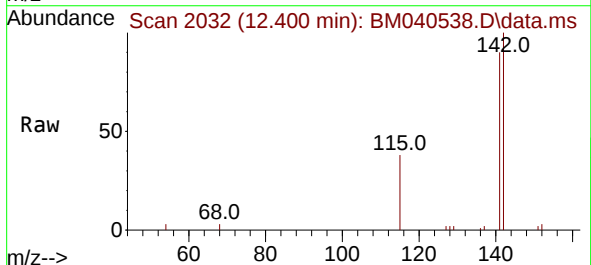
Tgt Ion:128 Resp: 61864  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.2 13.8  
127 12.8 10.6 15.8

Manual Integrations  
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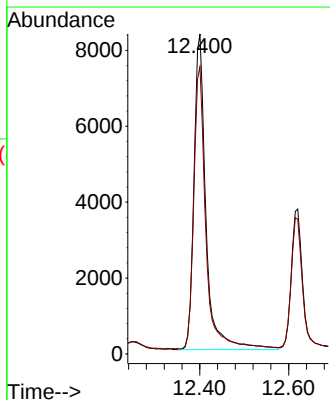
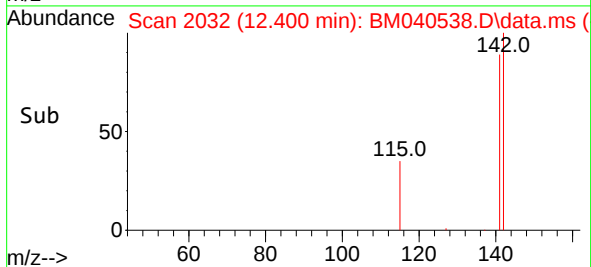
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

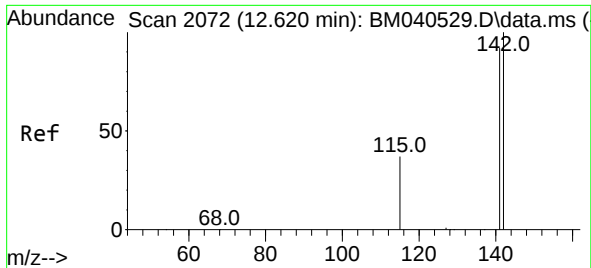


#7  
2-Methylnaphthalene  
Concen: 0.309 ng/ul  
RT: 12.400 min Scan# 2032  
Delta R.T. -0.005 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48



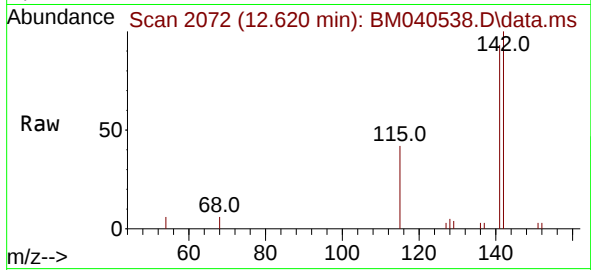
Tgt Ion:142 Resp: 15628  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.124 ng/ul  
RT: 12.620 min Scan# 2072  
Delta R.T. -0.005 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

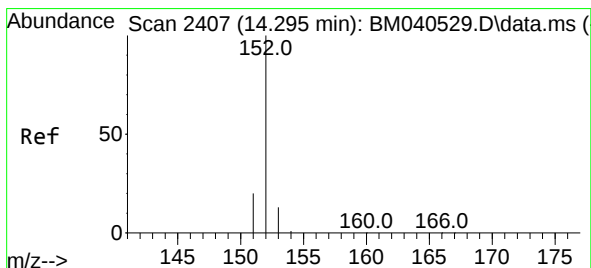
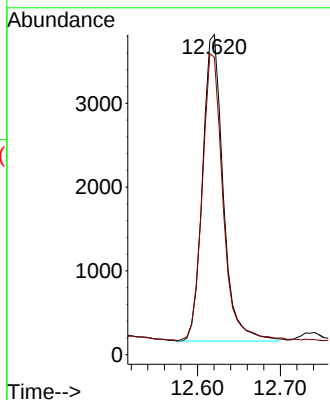
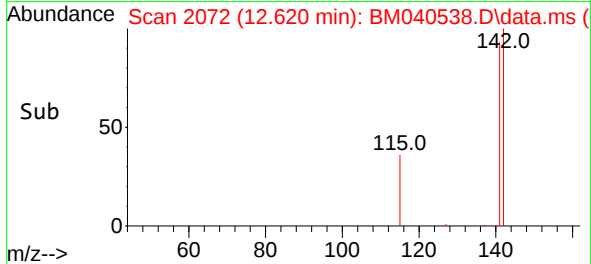
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



Tgt Ion:142 Resp: 6299  
Ion Ratio Lower Upper  
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141 94.3 73.7 110.5

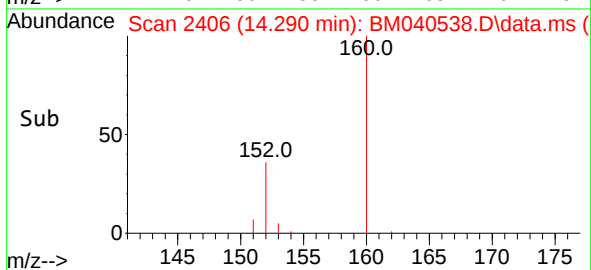
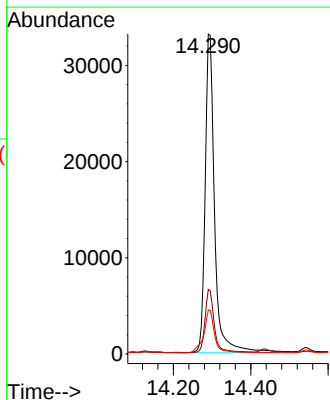
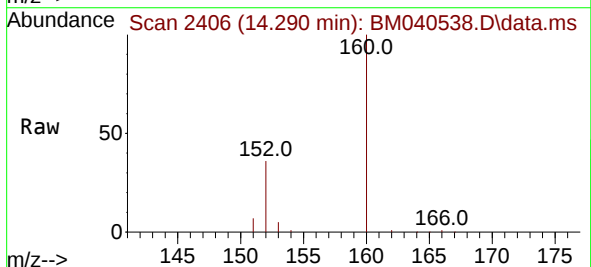
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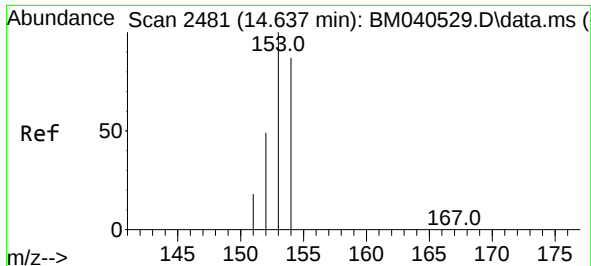
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#10  
Acenaphthylene  
Concen: 0.737 ng/ul  
RT: 14.290 min Scan# 2406  
Delta R.T. -0.009 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

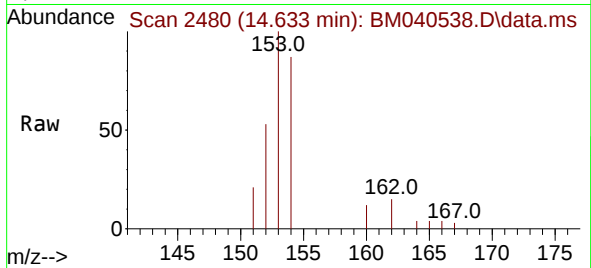
Tgt Ion:152 Resp: 55883  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.2 24.2  
153 13.7 10.9 16.3





#11  
Acenaphthene  
Concen: 0.125 ng/ul  
RT: 14.633 min Scan# 2481  
Delta R.T. -0.009 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

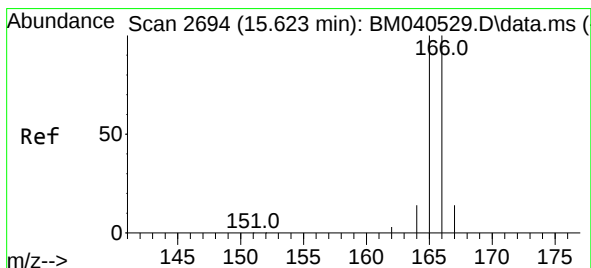
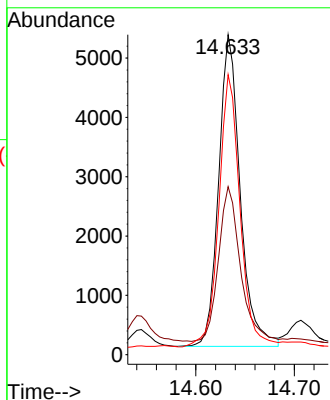
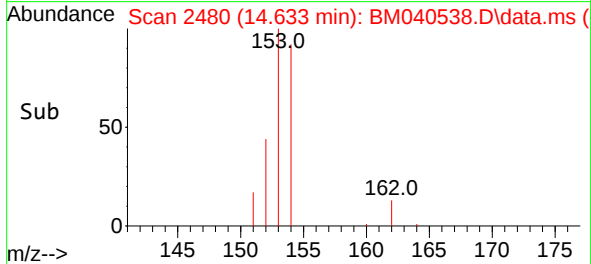
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



Tgt Ion:153 Resp: 800  
Ion Ratio Lower Upper  
153 100  
152 52.5 41.0 61.4  
154 87.5 70.8 106.2

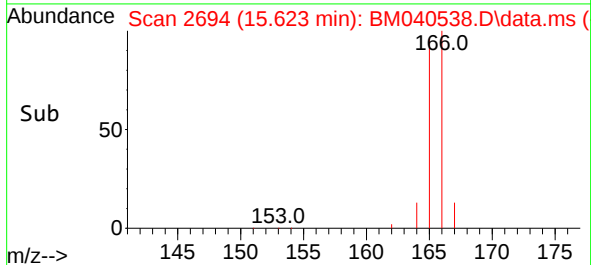
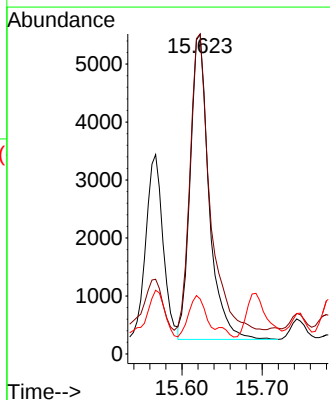
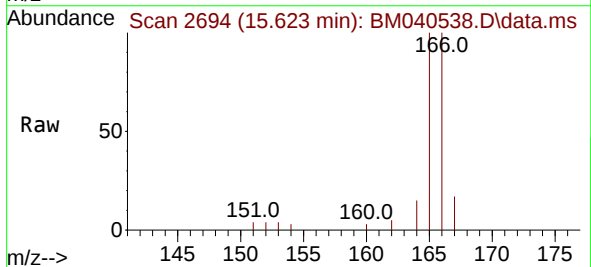
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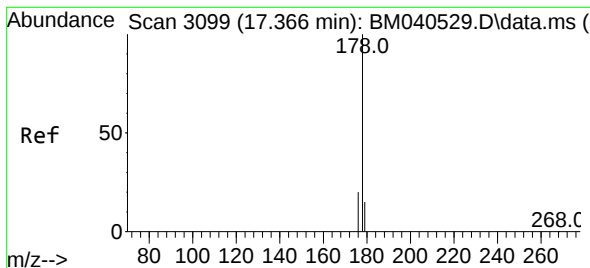
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#12  
Fluorene  
Concen: 0.125 ng/ul  
RT: 15.623 min Scan# 2694  
Delta R.T. -0.009 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

Tgt Ion:166 Resp: 8543  
Ion Ratio Lower Upper  
166 100  
165 100.1 79.6 119.4  
167 17.2 11.4 17.0#





#15

Phenanthrene

Concen: 1.884 ng/ul

RT: 17.362 min Scan# 3099

Delta R.T. -0.008 min

Lab File: BM040538.D

Acq: 02 Jul 2023 13:48

Instrument :

BNA\_M

ClientSampleId :

DCGC7

Tgt Ion:178 Resp: 190420

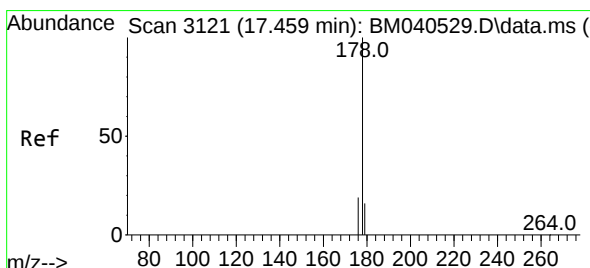
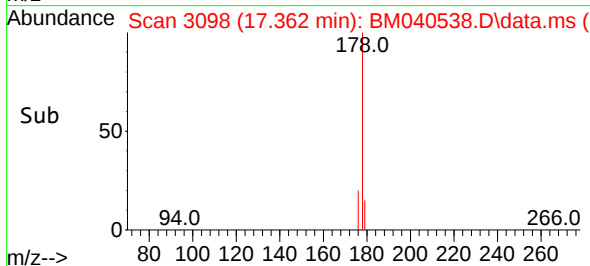
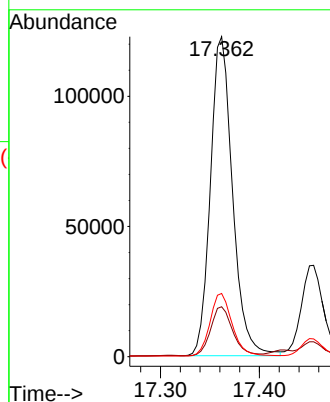
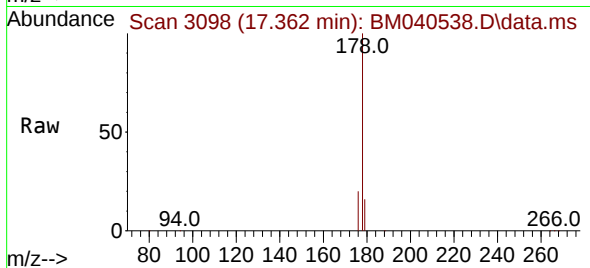
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 12.8  | 19.2  |
| 176 | 19.8  | 16.4  | 24.6  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/03/2023



#16

Anthracene

Concen: 0.596 ng/ul

RT: 17.455 min Scan# 3120

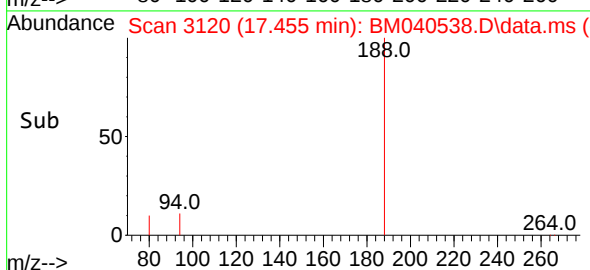
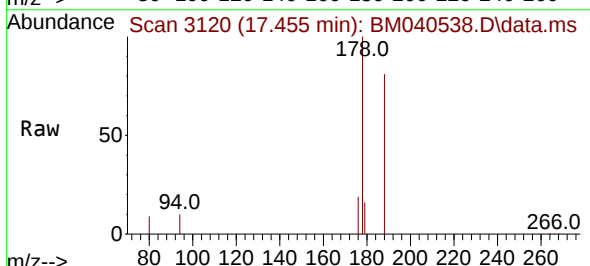
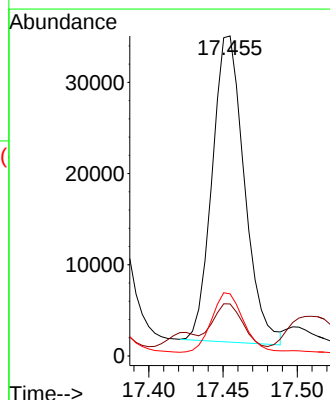
Delta R.T. -0.008 min

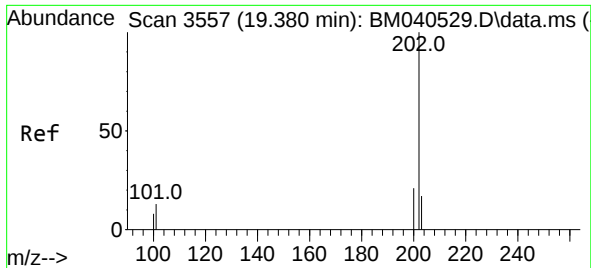
Lab File: BM040538.D

Acq: 02 Jul 2023 13:48

Tgt Ion:178 Resp: 50581

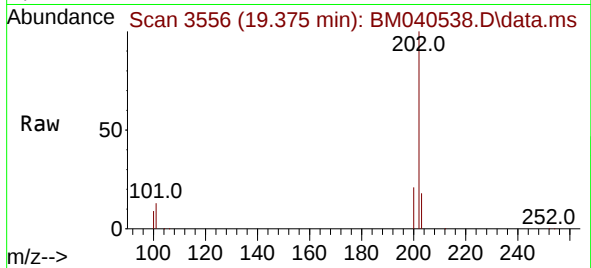
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.3  | 12.9  | 19.3  |
| 176 | 19.4  | 15.8  | 23.6  |





#19  
Fluoranthene  
Concen: 6.690 ng/u1  
RT: 19.375 min Scan# 3556  
Delta R.T. -0.009 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

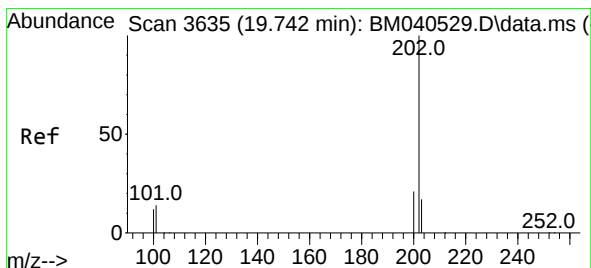
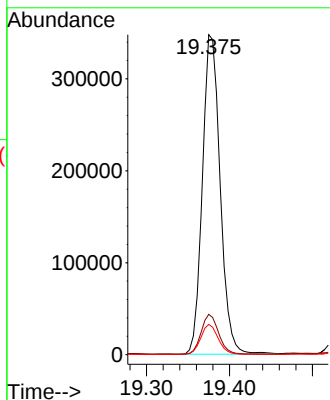
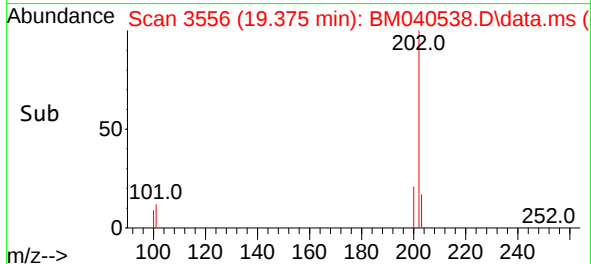
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



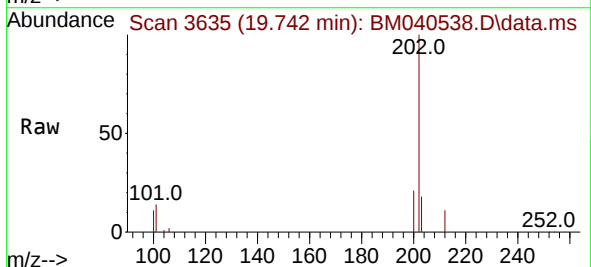
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Ion Ratio Lower Upper  
202 100  
101 12.6 11.4 17.0  
100 9.4 8.7 13.1

Manual Integrations  
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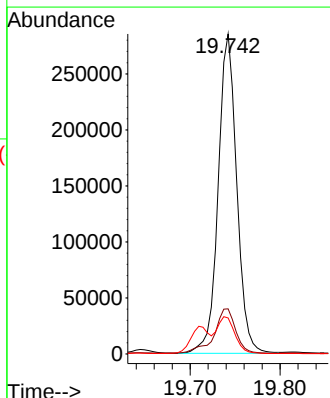
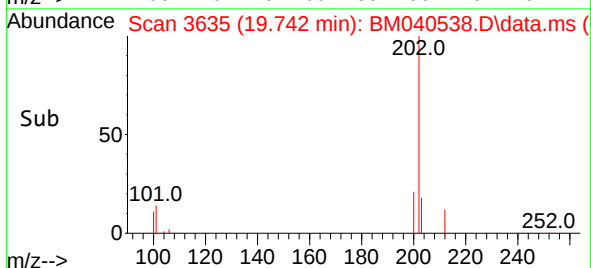
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

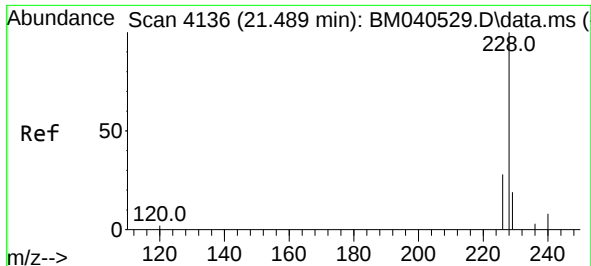


#20  
Pyrene  
Concen: 4.909 ng/u1  
RT: 19.742 min Scan# 3635  
Delta R.T. -0.004 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48



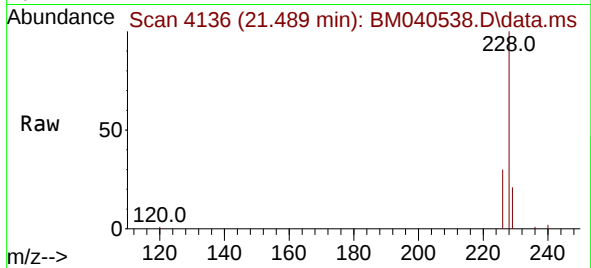
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Ion Ratio Lower Upper  
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101 14.1 12.6 18.8  
100 11.3 9.8 14.6





#21  
Benzo(a)anthracene  
Concen: 3.609 ng/ul  
RT: 21.489 min Scan# 4136  
Delta R.T. -0.003 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

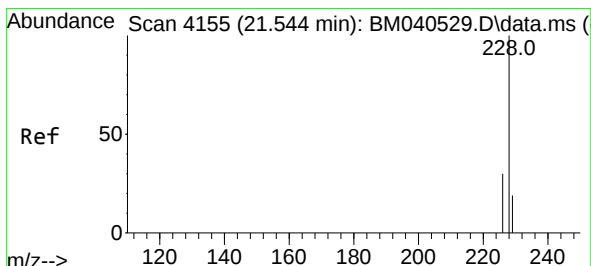
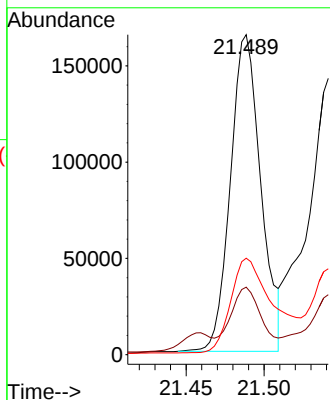
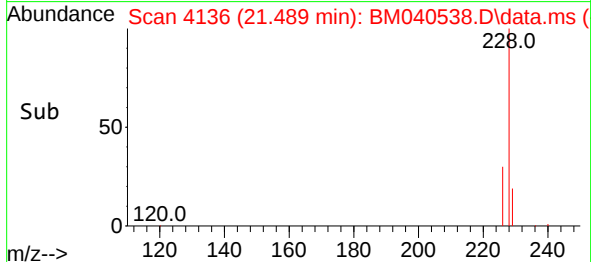
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



Tgt Ion:228 Resp: 22282  
Ion Ratio Lower Upper  
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229 21.1 16.0 24.0  
226 30.2 22.3 33.5

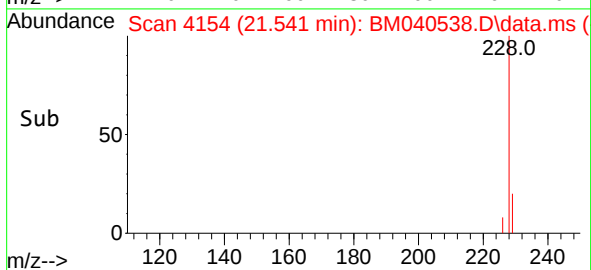
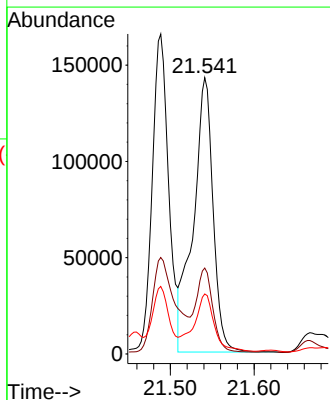
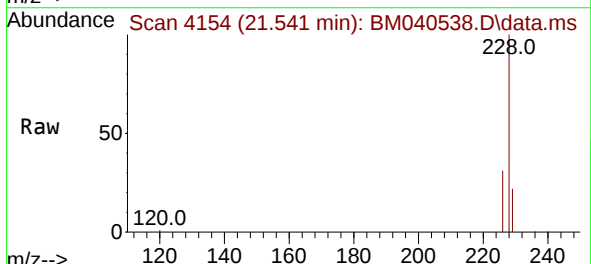
Manual Integrations  
APPROVED

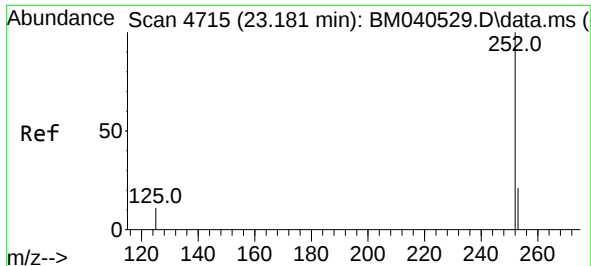
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#22  
Chrysene  
Concen: 3.332 ng/ul  
RT: 21.541 min Scan# 4154  
Delta R.T. -0.003 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

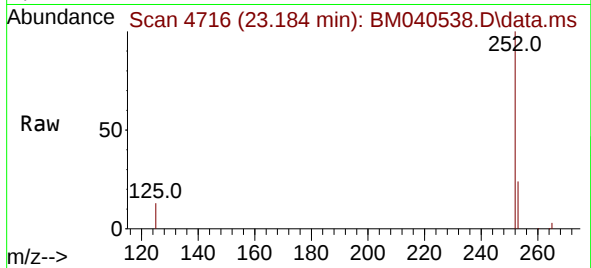
Tgt Ion:228 Resp: 234609  
Ion Ratio Lower Upper  
228 100  
226 31.1 24.9 37.3  
229 21.7 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 5.371 ng/ul  
RT: 23.184 min Scan# 4715  
Delta R.T. 0.003 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

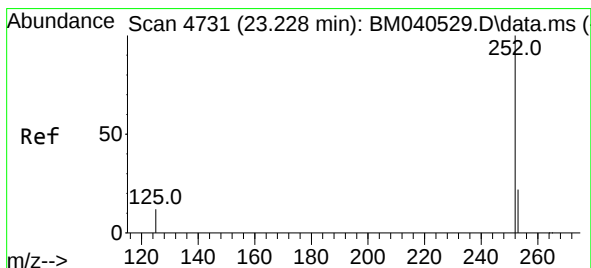
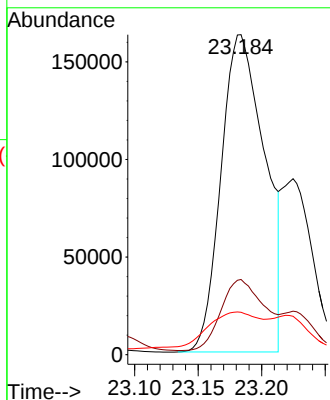
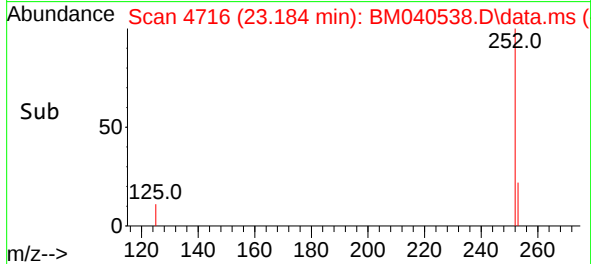
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



Tgt Ion:252 Resp: 38884  
Ion Ratio Lower Upper  
252 100  
253 23.5 0.0 52.8  
125 13.2 0.0 43.0

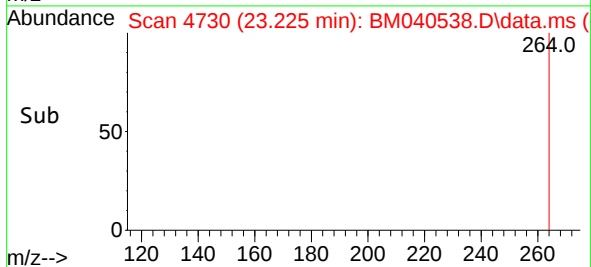
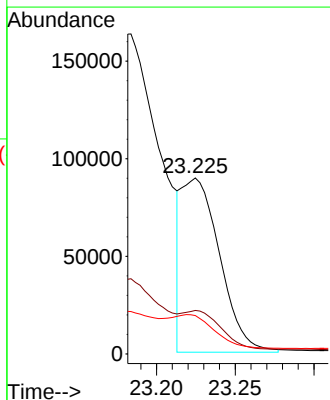
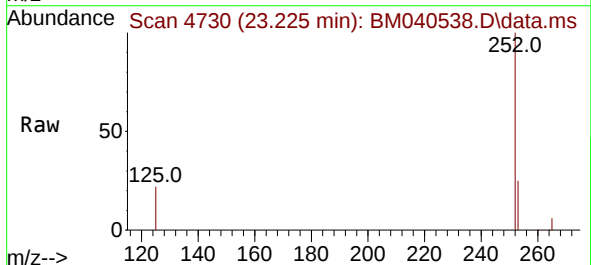
Manual Integrations  
APPROVED

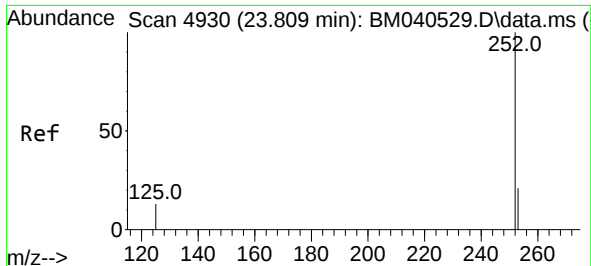
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#25  
Benzo(k)fluoranthene  
Concen: 2.106 ng/ul m  
RT: 23.225 min Scan# 4730  
Delta R.T. -0.003 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

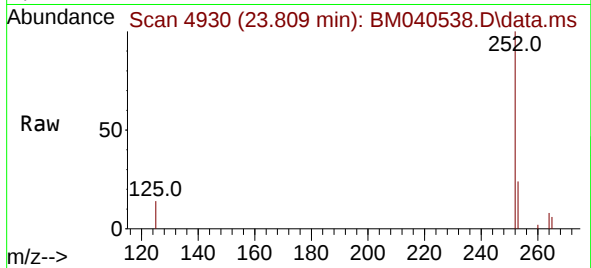
Tgt Ion:252 Resp: 150265  
Ion Ratio Lower Upper  
252 100  
253 24.8 21.2 31.8  
125 21.8 16.4 24.6





#26  
Benzo(a)pyrene  
Concen: 3.492 ng/ul  
RT: 23.809 min Scan# 4930  
Delta R.T. -0.003 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

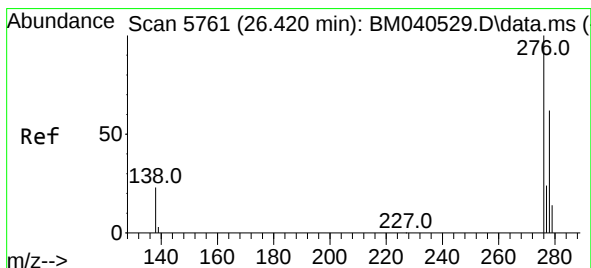
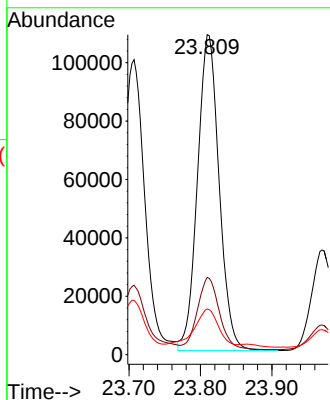
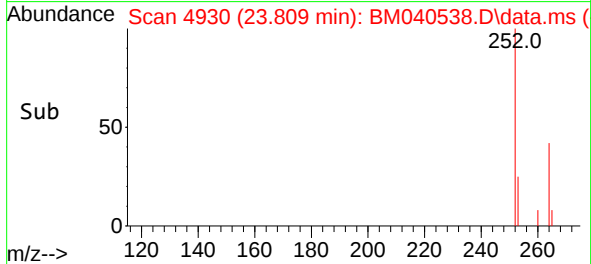
Instrument :  
BNA\_M  
ClientSampleId :  
DCGC7



Tgt Ion:252 Resp: 227720  
Ion Ratio Lower Upper  
252 100  
253 24.1 22.9 34.3  
125 14.3 21.0 31.4

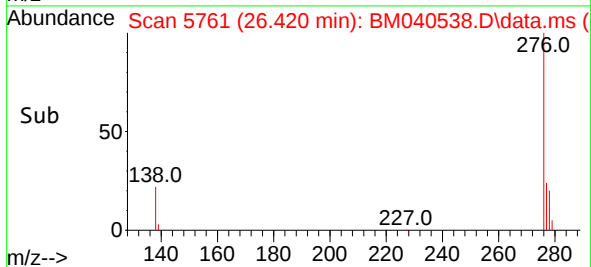
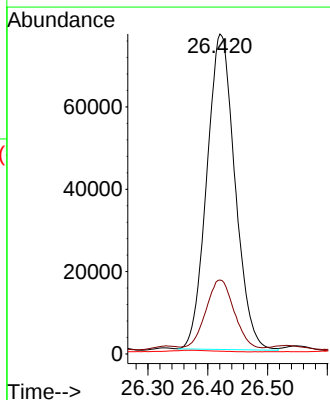
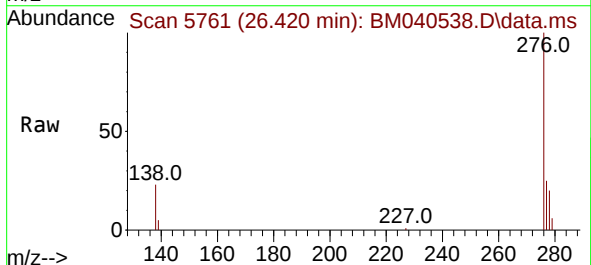
Manual Integrations  
APPROVED

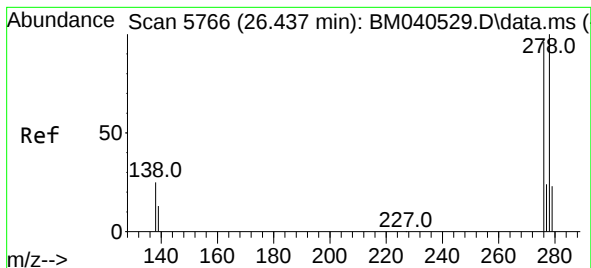
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.761 ng/ul  
RT: 26.420 min Scan# 5761  
Delta R.T. 0.000 min  
Lab File: BM040538.D  
Acq: 02 Jul 2023 13:48

Tgt Ion:276 Resp: 250785  
Ion Ratio Lower Upper  
276 100  
138 22.7 24.5 36.7#  
227 0.0 0.1 0.1#





#28

Dibenzo(a,h)anthracene

Concen: 0.825 ng/ul

RT: 26.427 min Scan# 51

Delta R.T. -0.010 min

Lab File: BM040538.D

Acq: 02 Jul 2023 13:48

Instrument :

BNA\_M

ClientSampleId :

DCGC7

Tgt Ion:278 Resp: 58644

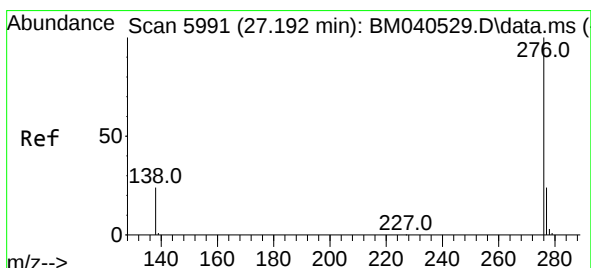
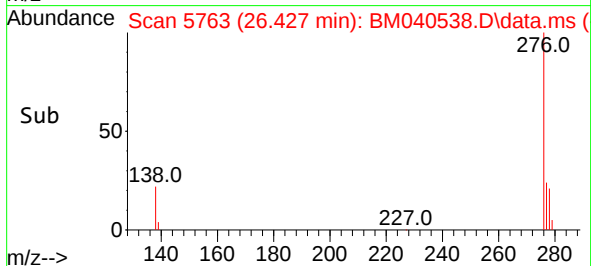
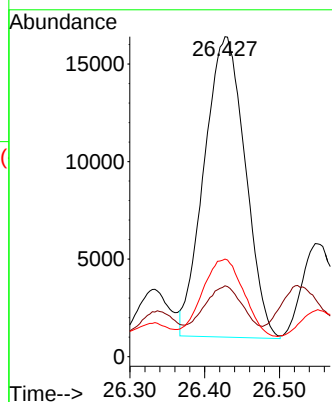
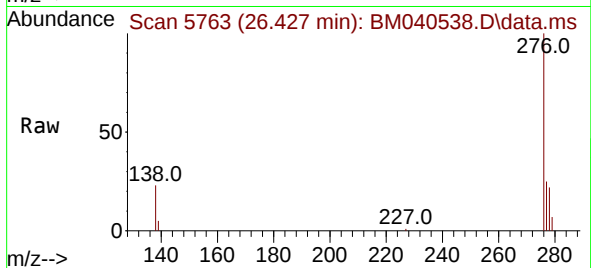
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 22.1  | 17.9  | 26.9  |
| 279 | 30.5  | 22.0  | 33.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/03/2023



#29

Benzo(g,h,i)perylene

Concen: 2.850 ng/ul

RT: 27.195 min Scan# 5992

Delta R.T. 0.010 min

Lab File: BM040538.D

Acq: 02 Jul 2023 13:48

Tgt Ion:276 Resp: 226844

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 24.1  | 23.0  | 34.6  |
| 277 | 24.5  | 20.3  | 30.5  |

