

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021224\  
 Data File : BP019666.D  
 Acq On : 12 Feb 2024 17:02  
 Operator : MA/JU  
 Sample : P1428-01 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EO-01-020824

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/14/2024  
 Supervised By :mohammad ahmed 02/14/2024

Quant Time: Feb 12 17:49:37 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 01 00:51:48 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.905  | 152  | 84081    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.705 | 136  | 272177   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.540 | 164  | 163592   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.292 | 188  | 402575   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.386 | 240  | 448118   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.810 | 264  | 516760   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.475  | 112  | 196686   | 37.707 | ng    | -0.01    |
| 7) Phenol-d6                | 7.075  | 99   | 237097   | 33.710 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.069  | 82   | 162334   | 25.844 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.034 | 330  | 114009   | 47.731 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.163 | 172  | 325764   | 24.617 | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.863 | 244  | 654463   | 24.018 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.263 | 152  | 37525    | 2.495  | ng    | 94       |
| 71) Phenanthrene            | 17.334 | 178  | 133076   | 6.281  | ng    | 100      |
| 72) Anthracene              | 17.428 | 178  | 59996m   | 2.839  | ng    |          |
| 75) Fluoranthene            | 19.304 | 202  | 343582   | 13.275 | ng    | 99       |
| 78) Pyrene                  | 19.657 | 202  | 360454   | 11.397 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.369 | 228  | 189876   | 6.019  | ng    | 93       |
| 83) Chrysene                | 21.422 | 228  | 191028m  | 6.379  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 26.333 | 276  | 148938   | 3.765  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.074 | 252  | 268741   | 8.251  | ng    | # 88     |
| 89) Benzo(k)fluoranthene    | 23.116 | 252  | 84975m   | 2.731  | ng    |          |
| 90) Benzo(a)pyrene          | 23.698 | 252  | 206721   | 7.133  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 27.110 | 276  | 162735   | 4.931  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

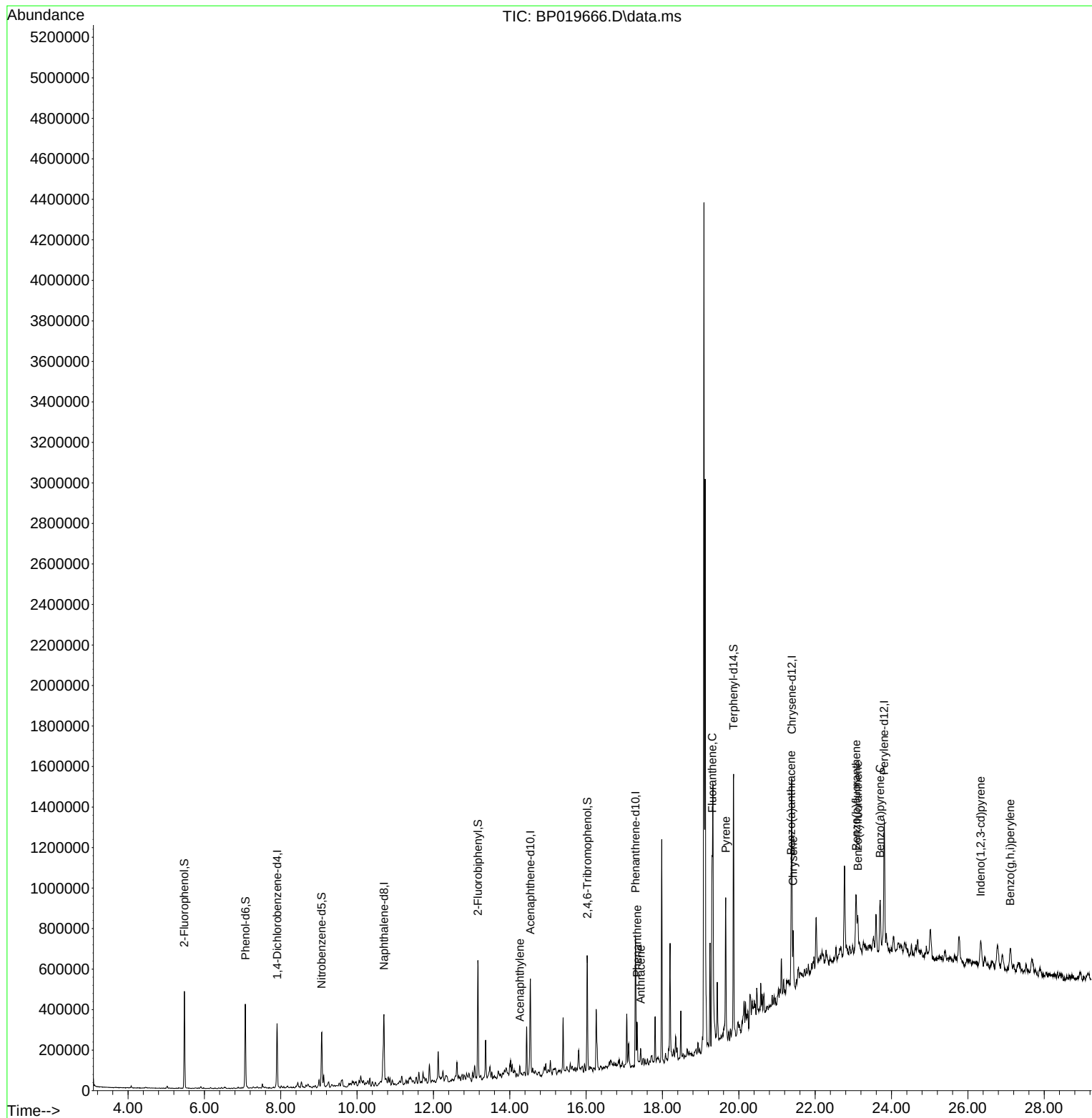
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021224\  
Data File : BP019666.D  
Acq On : 12 Feb 2024 17:02  
Operator : MA/JU  
Sample : P1428-01 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

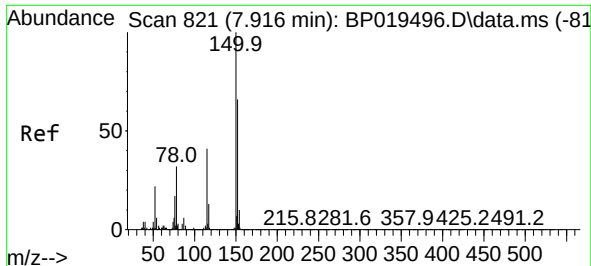
Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824

Quant Time: Feb 12 17:49:37 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP013124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 01 00:51:48 2024  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.905 min Scan# 81  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

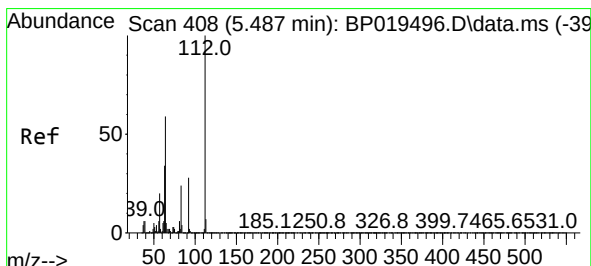
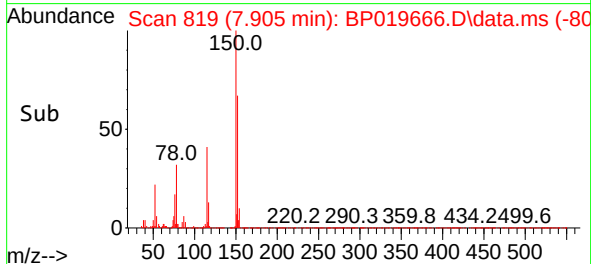
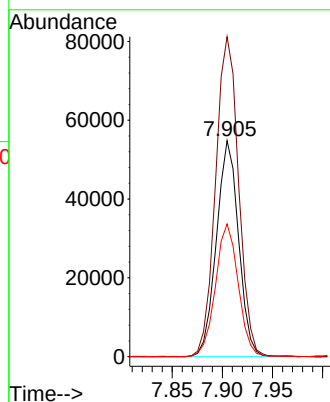
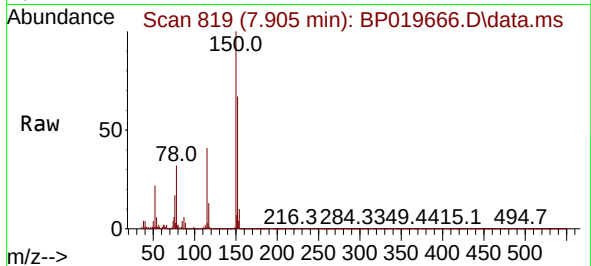
ClientSampleId :

EO-01-020824

Tgt Ion:152 Resp: 8408  
Ion Ratio Lower Upper  
152 100  
150 148.2 121.8 182.8  
115 61.5 49.9 74.9

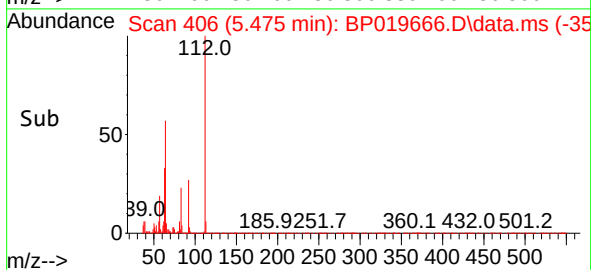
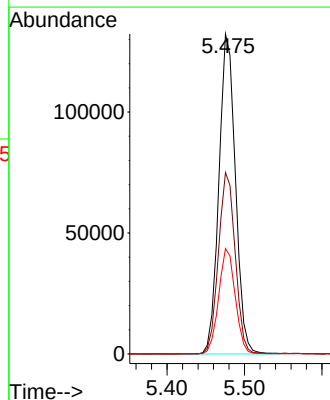
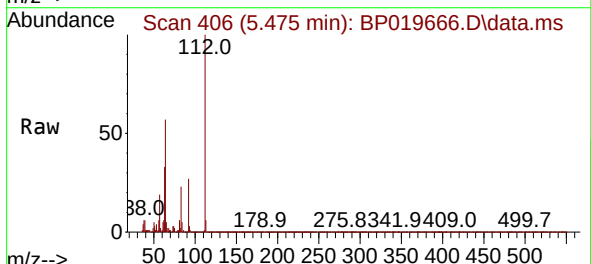
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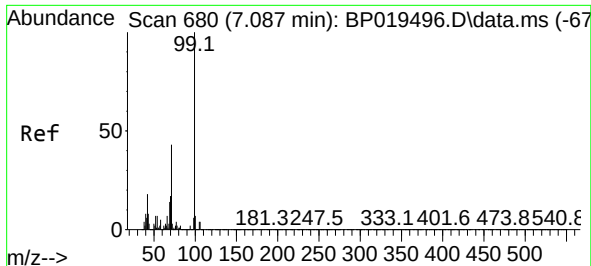
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#5  
2-Fluorophenol  
Concen: 37.707 ng  
RT: 5.475 min Scan# 406  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

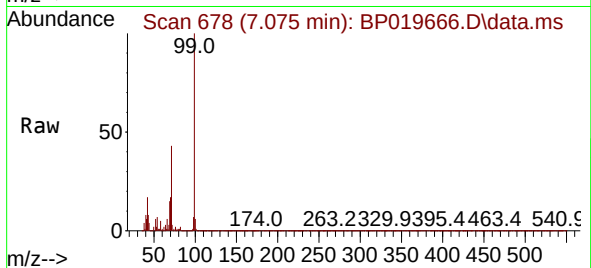
Tgt Ion:112 Resp: 196686  
Ion Ratio Lower Upper  
112 100  
64 56.7 47.4 71.0  
63 33.0 27.0 40.6





#7  
Phenol-d6  
Concen: 33.710 ng  
RT: 7.075 min Scan# 61  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

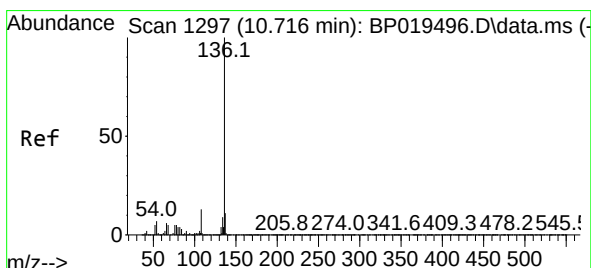
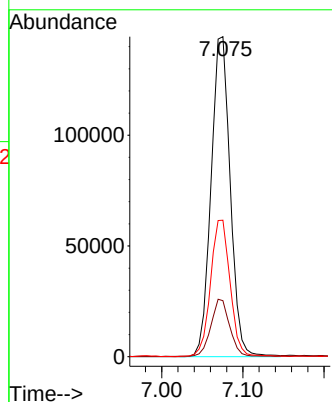
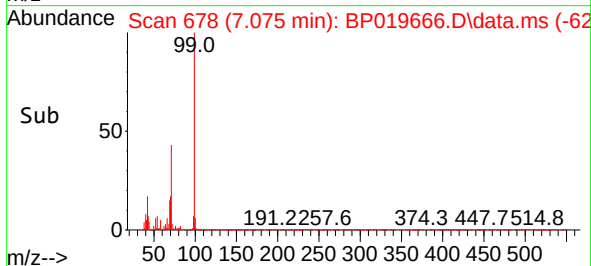
Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824



Tgt Ion: 99 Resp: 23709  
Ion Ratio Lower Upper  
99 100  
42 17.5 14.7 22.1  
71 42.7 34.8 52.2

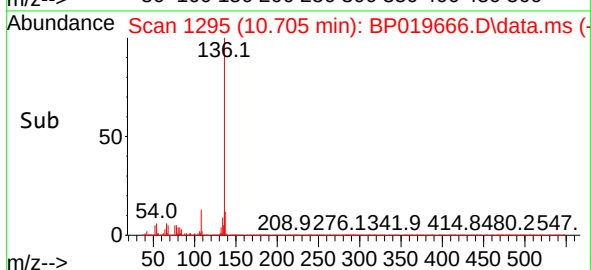
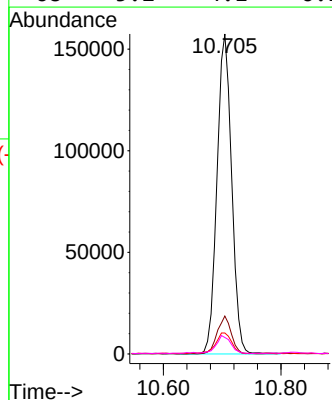
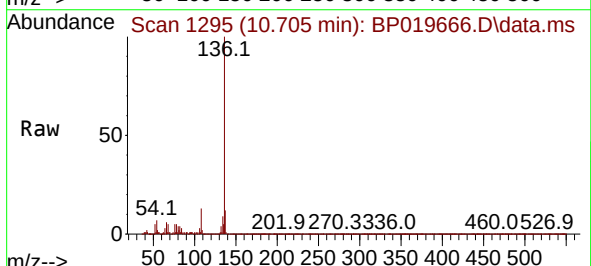
Manual Integrations  
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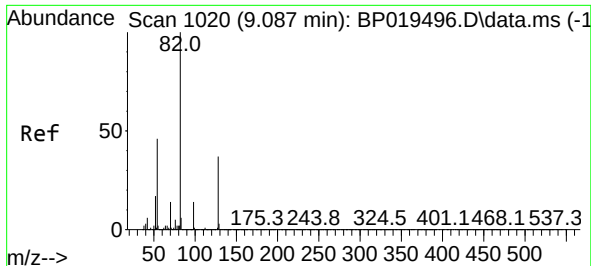
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.705 min Scan# 1295  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

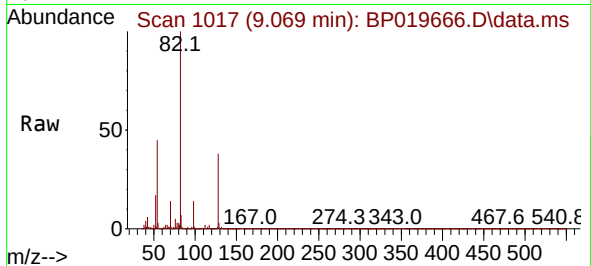
Tgt Ion:136 Resp: 272177  
Ion Ratio Lower Upper  
136 100  
137 11.9 8.8 13.2  
54 6.5 5.3 7.9  
68 5.2 4.1 6.1





#23  
Nitrobenzene-d5  
Concen: 25.844 ng  
RT: 9.069 min Scan# 1017  
Delta R.T. -0.017 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

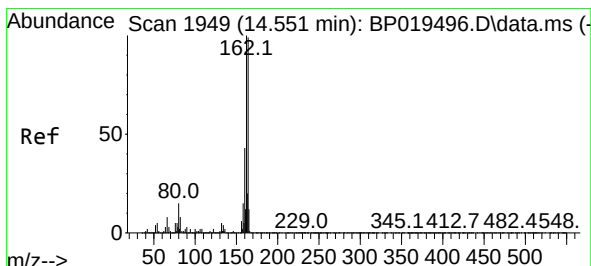
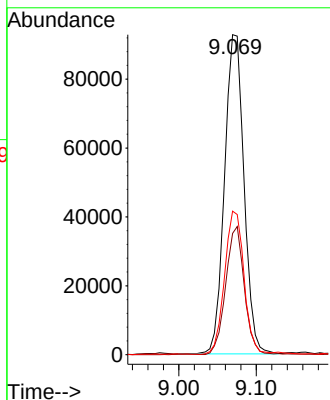
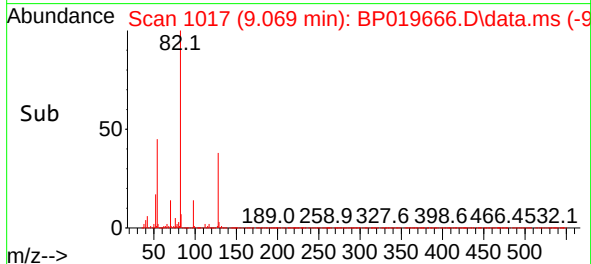
Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824



Tgt Ion: 82 Resp: 162334  
Ion Ratio Lower Upper  
82 100  
128 37.9 29.7 44.5  
54 44.8 36.8 55.2

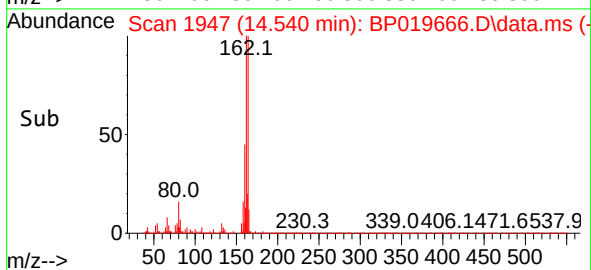
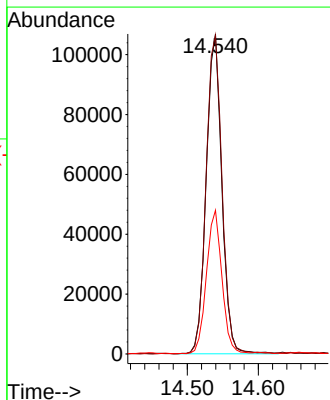
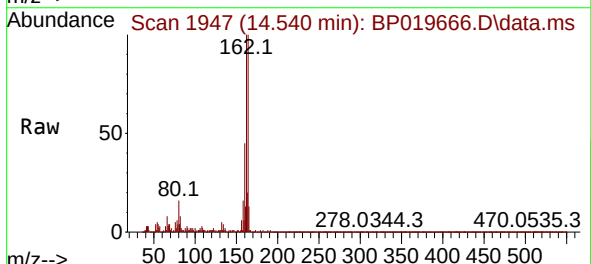
Manual Integrations  
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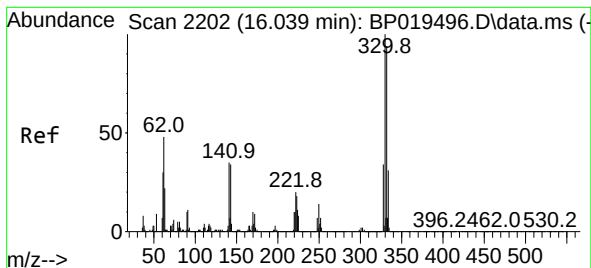
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.540 min Scan# 1947  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

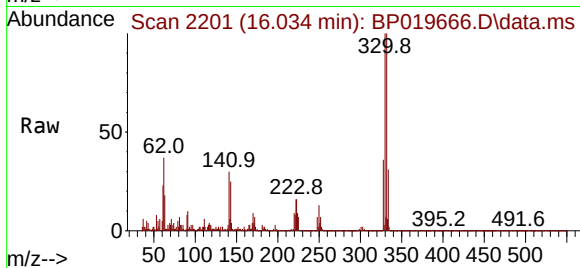
Tgt Ion:164 Resp: 163592  
Ion Ratio Lower Upper  
164 100  
162 99.6 81.2 121.8  
160 44.9 35.1 52.7





#42  
2,4,6-Tribromophenol  
Concen: 47.731 ng  
RT: 16.034 min Scan# 211  
Delta R.T. -0.005 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

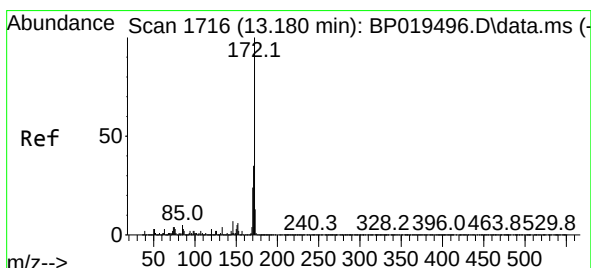
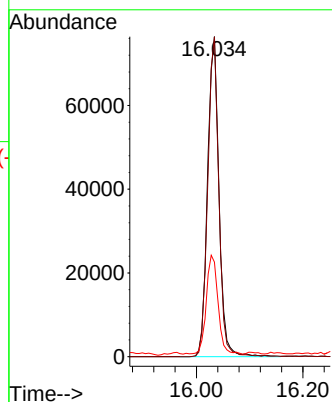
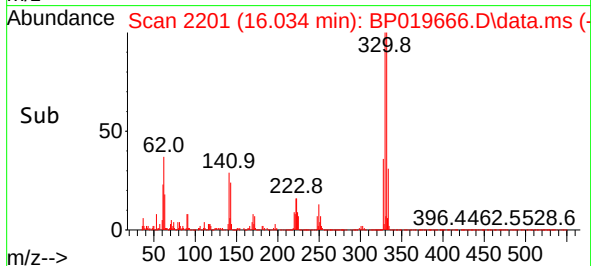
Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824



Tgt Ion:330 Resp: 114009  
Ion Ratio Lower Upper  
330 100  
332 96.8 77.2 115.8  
141 32.0 27.0 40.4

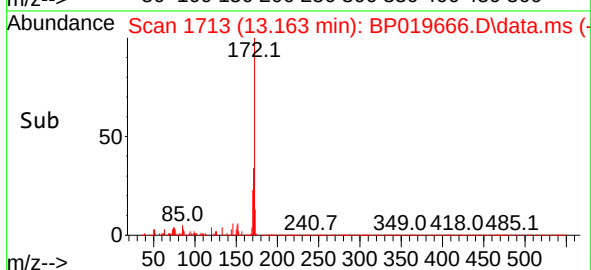
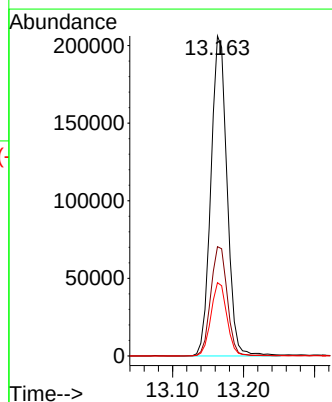
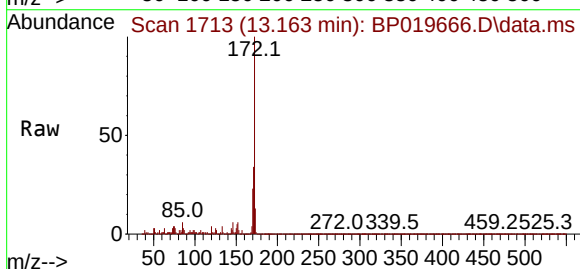
Manual Integrations  
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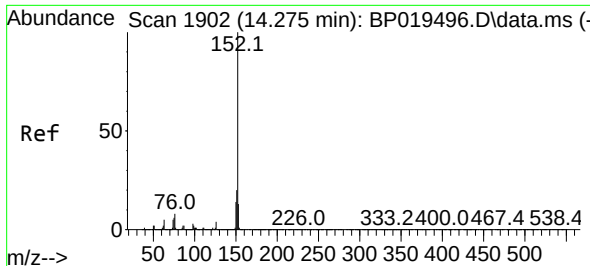
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#45  
2-Fluorobiphenyl  
Concen: 24.617 ng  
RT: 13.163 min Scan# 1713  
Delta R.T. -0.017 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Tgt Ion:172 Resp: 325764  
Ion Ratio Lower Upper  
172 100  
171 34.2 28.2 42.4  
170 22.9 18.9 28.3





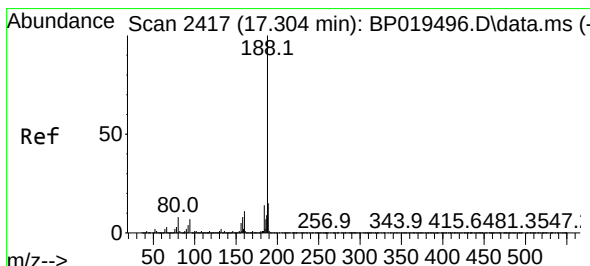
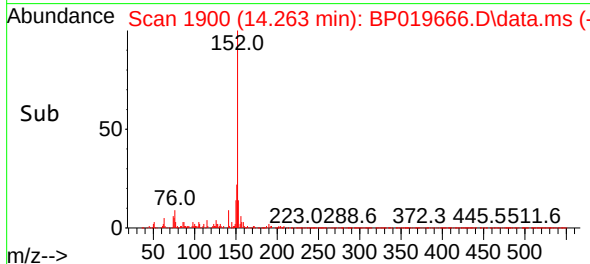
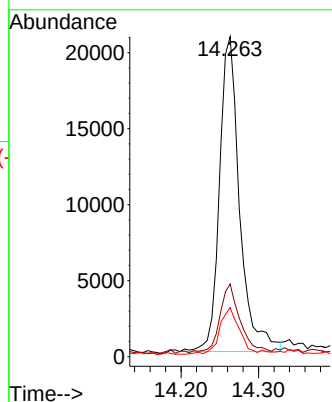
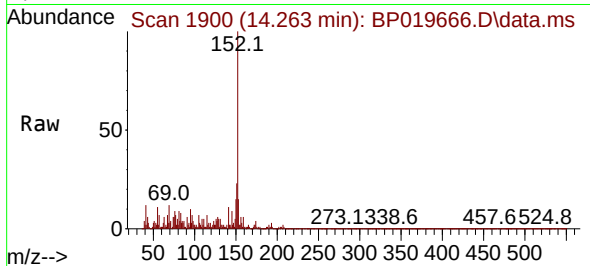
#49  
Acenaphthylene  
Concen: 2.495 ng  
RT: 14.263 min Scan# 1900  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824

Tgt Ion:152 Resp: 3752  
Ion Ratio Lower Upper  
152 100  
151 22.7 15.8 23.6  
153 15.4 10.6 15.8

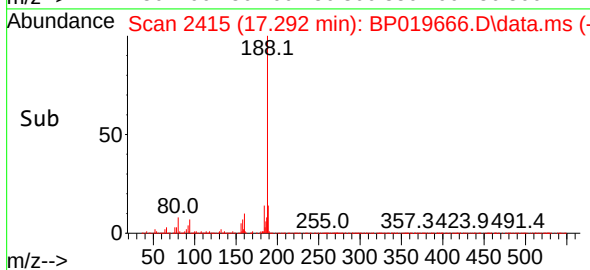
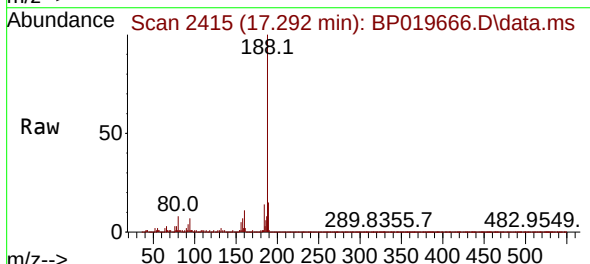
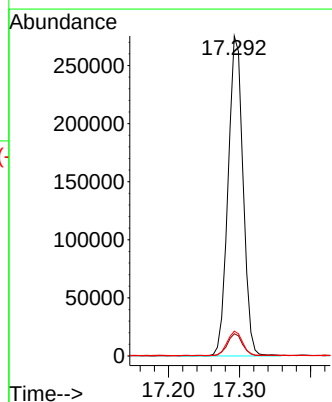
Manual Integrations  
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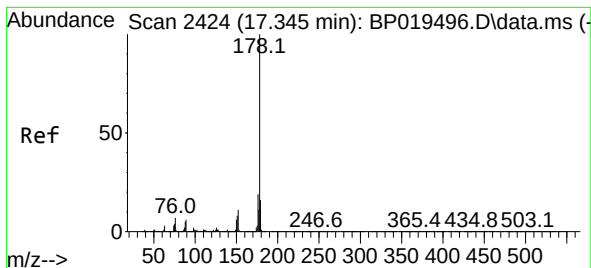
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.292 min Scan# 2415  
Delta R.T. -0.012 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Tgt Ion:188 Resp: 402575  
Ion Ratio Lower Upper  
188 100  
94 6.9 5.4 8.2  
80 7.8 6.3 9.5





#71

Phenanthrene

Concen: 6.281 ng

RT: 17.334 min Scan# 2424

Delta R.T. -0.011 min

Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

EO-01-020824

Tgt Ion:178 Resp: 133070

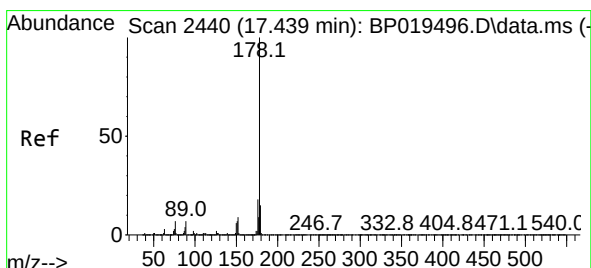
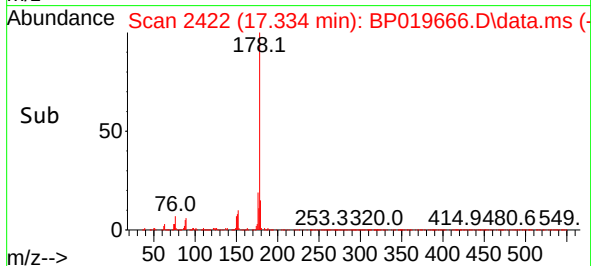
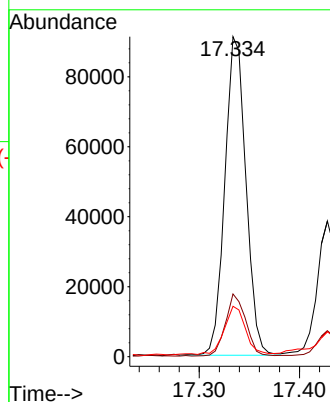
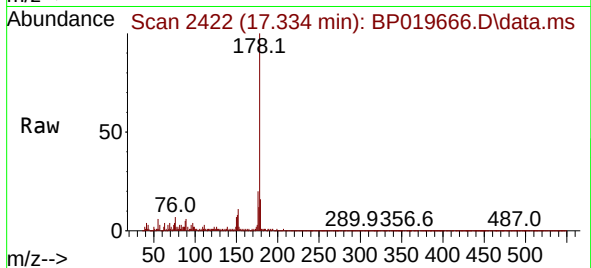
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.6  | 15.5  | 23.3  |
| 179 | 15.8  | 12.6  | 19.0  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/14/2024

Supervised By :mohammad ahmed 02/14/2024



#72

Anthracene

Concen: 2.839 ng m

RT: 17.428 min Scan# 2438

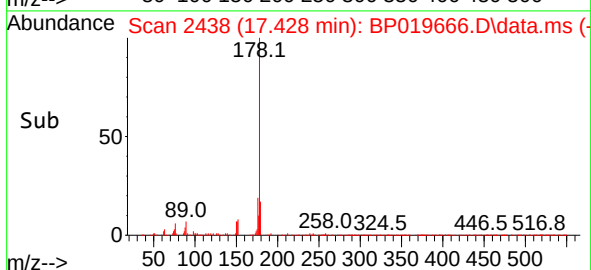
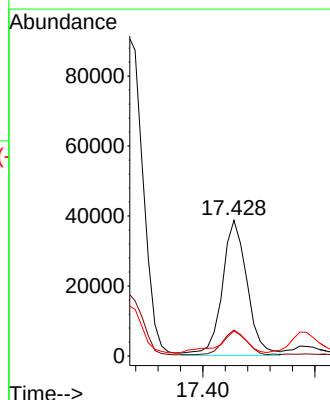
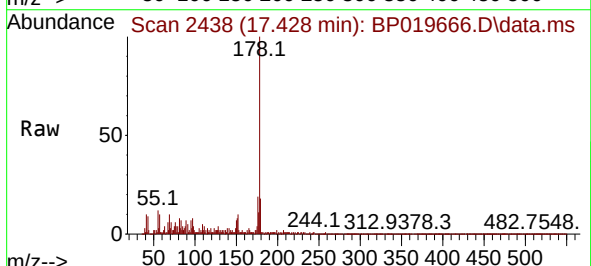
Delta R.T. -0.011 min

Lab File: BP019666.D

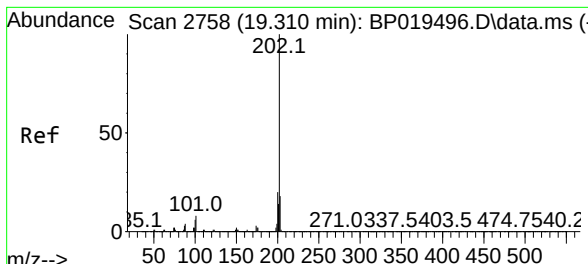
Acq: 12 Feb 2024 17:02

Tgt Ion:178 Resp: 59996

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.1  | 14.7  | 22.1  |
| 179 | 18.4  | 12.2  | 18.2# |







#75  
Fluoranthene  
Concen: 13.275 ng  
RT: 19.304 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

EO-01-020824

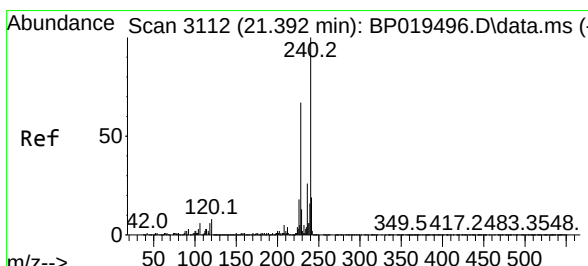
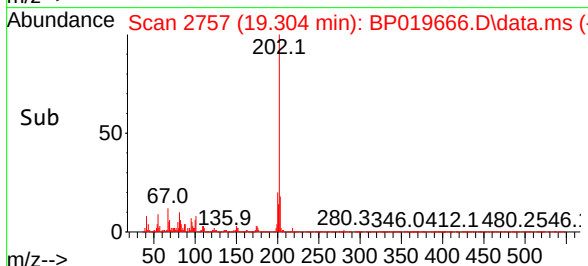
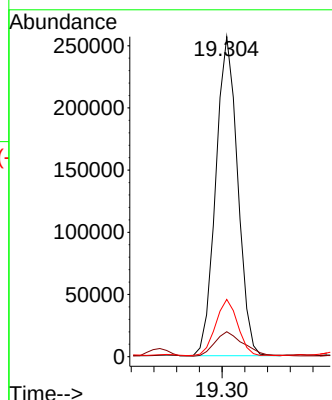
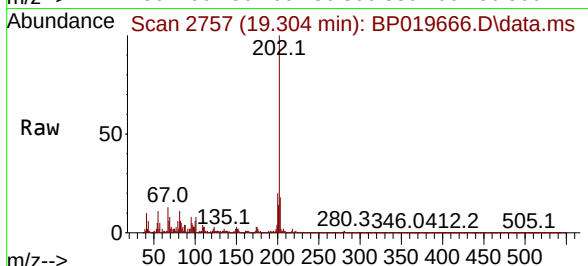
Tgt Ion:202 Resp: 34358  
Ion Ratio Lower Upper  
202 100  
101 7.8 0.0 27.7  
203 17.9 0.0 37.5

Manual Integrations

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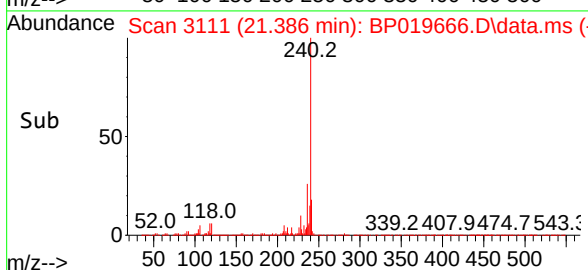
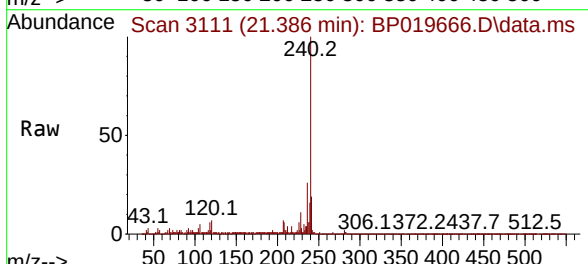
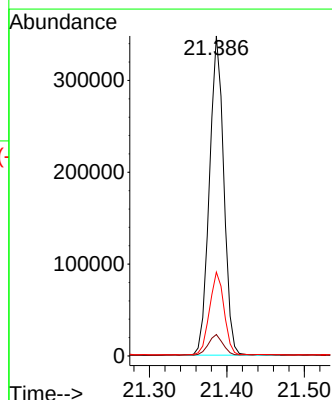
Reviewed By :Yogesh Patel 02/14/2024

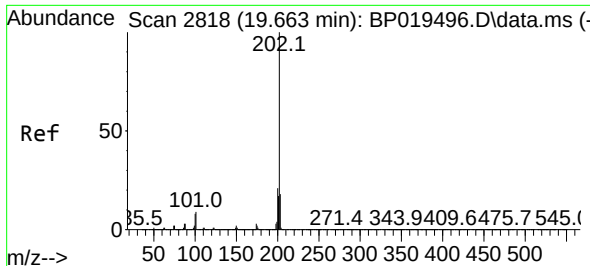
Supervised By :mohammad ahmed 02/14/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.386 min Scan# 3111  
Delta R.T. -0.005 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Tgt Ion:240 Resp: 448118  
Ion Ratio Lower Upper  
240 100  
120 6.7 6.1 9.1  
236 26.2 20.7 31.1





#78  
 Pyrene  
 Concen: 11.397 ng  
 RT: 19.657 min Scan# 21  
 Delta R.T. -0.005 min  
 Lab File: BP019666.D  
 Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

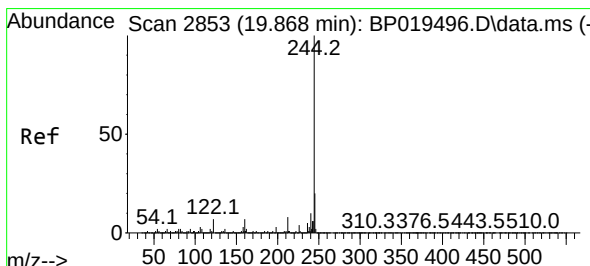
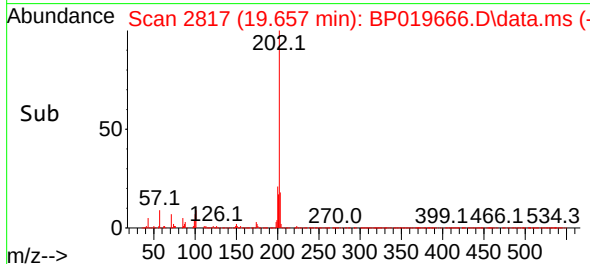
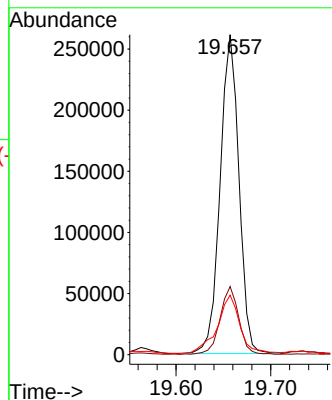
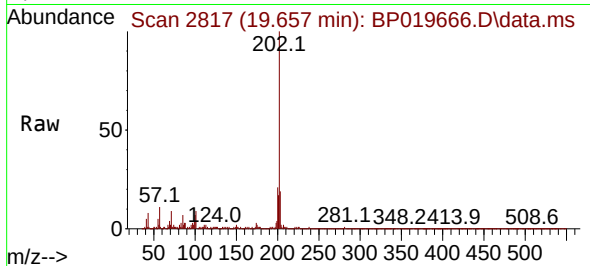
EO-01-020824

Tgt Ion:202 Resp: 360454  
 Ion Ratio Lower Upper  
 202 100  
 200 21.3 16.9 25.3  
 203 18.6 14.2 21.2

Manual Integrations

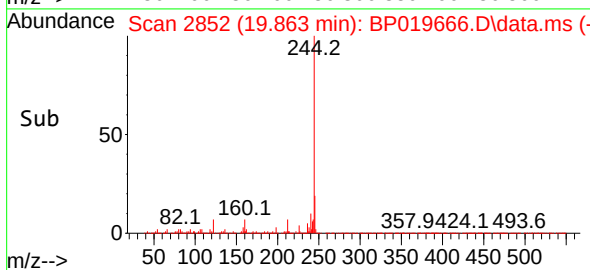
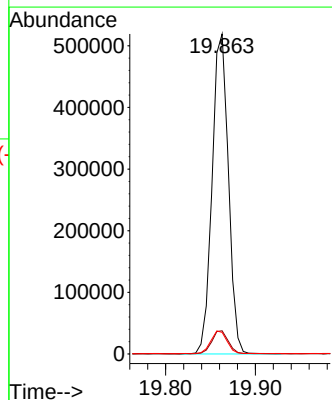
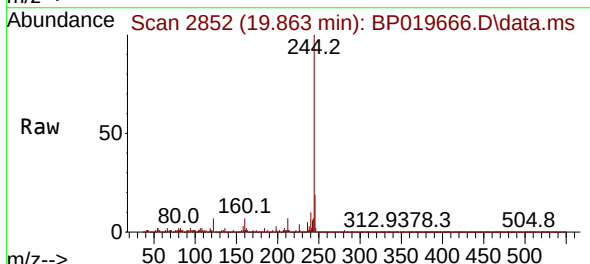
APPROVED

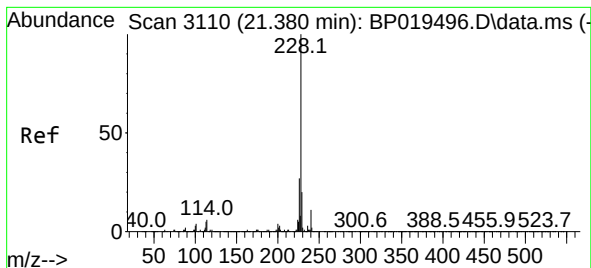
Reviewed By :Yogesh Patel 02/14/2024  
 Supervised By :mohammad ahmed 02/14/2024



#79  
 Terphenyl-d14  
 Concen: 24.018 ng  
 RT: 19.863 min Scan# 2852  
 Delta R.T. -0.005 min  
 Lab File: BP019666.D  
 Acq: 12 Feb 2024 17:02

Tgt Ion:244 Resp: 654463  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.1 9.1  
 122 6.7 5.9 8.9





#81

Benzo(a)anthracene

Concen: 6.019 ng

RT: 21.369 min Scan# 3110

Delta R.T. -0.011 min

Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

EO-01-020824

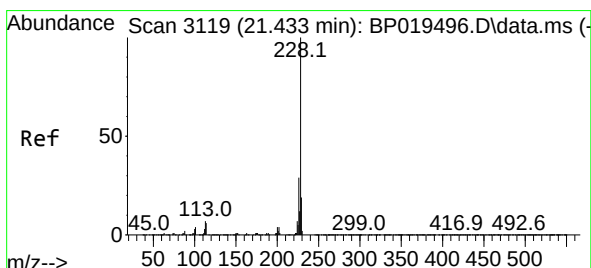
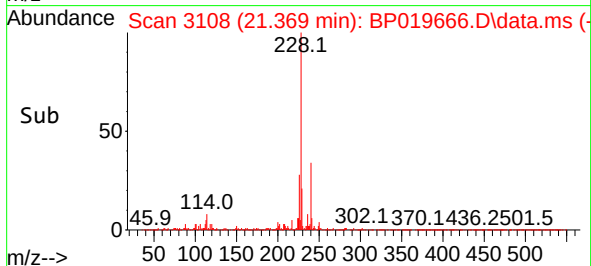
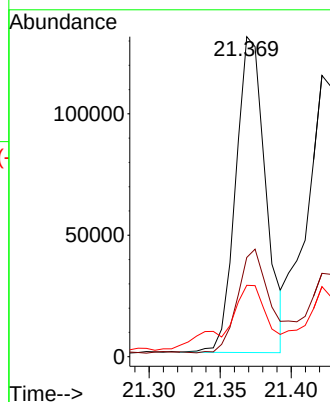
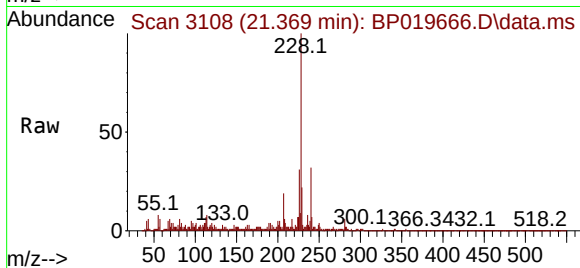
Tgt Ion:228 Resp: 189870  
 Ion Ratio Lower Upper  
 228 100  
 226 31.0 21.7 32.5  
 229 22.3 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/14/2024

Supervised By :mohammad ahmed 02/14/2024



#83

Chrysene

Concen: 6.379 ng m

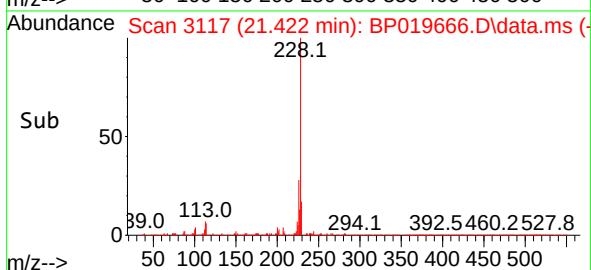
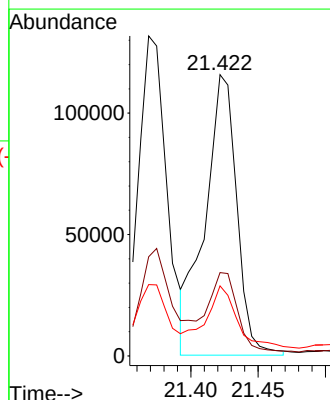
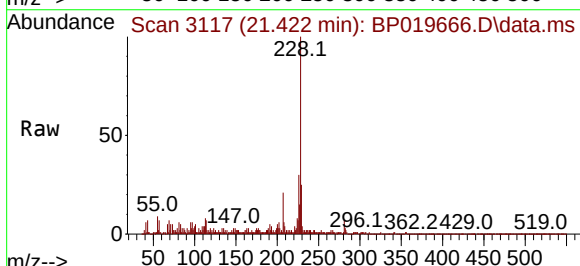
RT: 21.422 min Scan# 3117

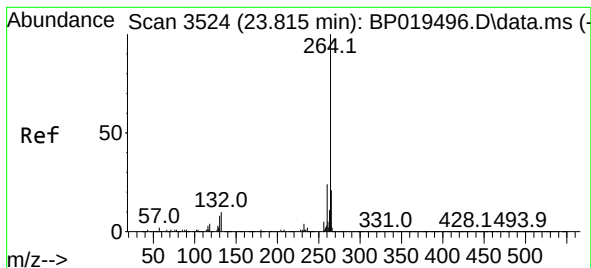
Delta R.T. -0.011 min

Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Tgt Ion:228 Resp: 191028  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 23.4 35.2  
 229 24.9 15.6 23.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.810 min Scan# 3524

Delta R.T. -0.005 min

Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

EO-01-020824

Tgt Ion:264 Resp: 516760

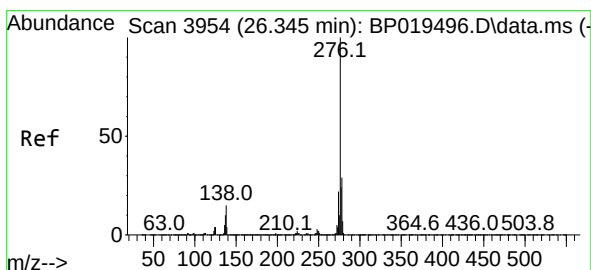
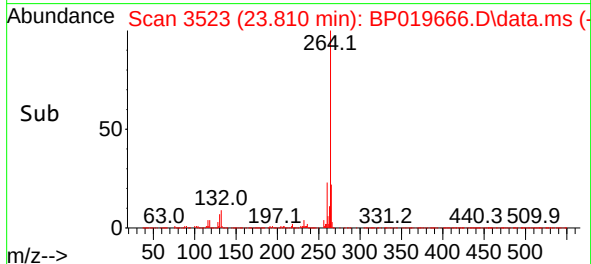
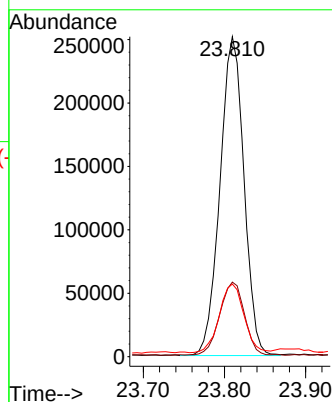
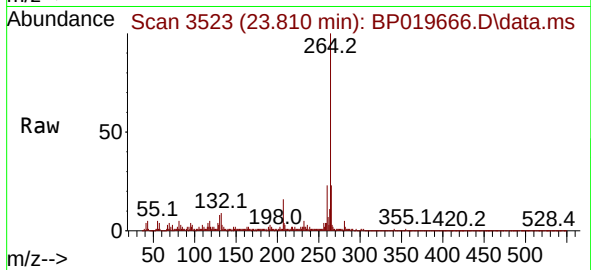
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 19.2  | 28.8  |
| 265 | 22.7  | 17.0  | 25.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/14/2024

Supervised By :mohammad ahmed 02/14/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.765 ng

RT: 26.333 min Scan# 3952

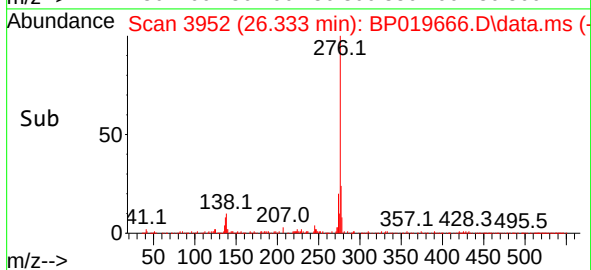
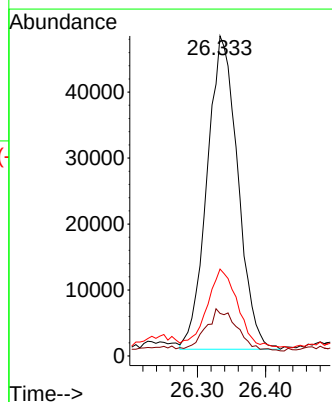
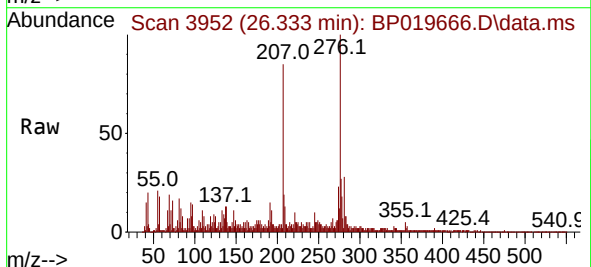
Delta R.T. -0.011 min

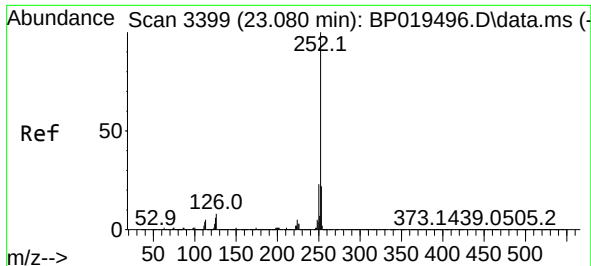
Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Tgt Ion:276 Resp: 148938

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 13.8  | 13.1  | 19.7  |
| 277 | 25.2  | 20.3  | 30.5  |





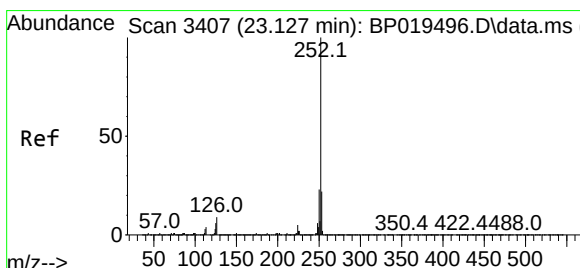
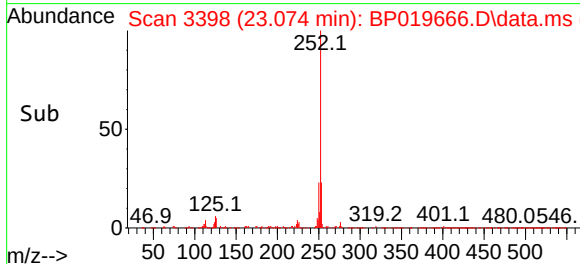
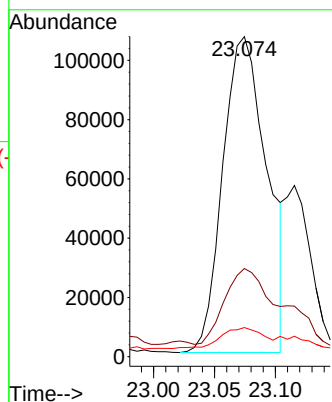
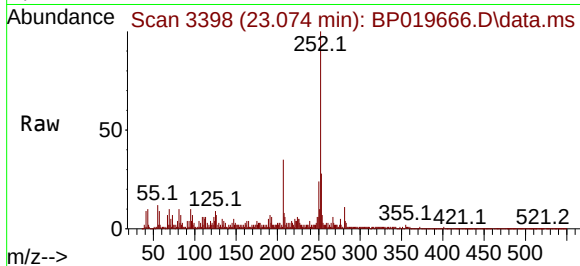
#88  
Benzo(b)fluoranthene  
Concen: 8.251 ng  
RT: 23.074 min Scan# 31  
Delta R.T. -0.005 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-020824

Tgt Ion:252 Resp: 26874  
Ion Ratio Lower Upper  
252 100  
253 27.6 17.3 25.9#  
125 9.1 4.9 7.3#

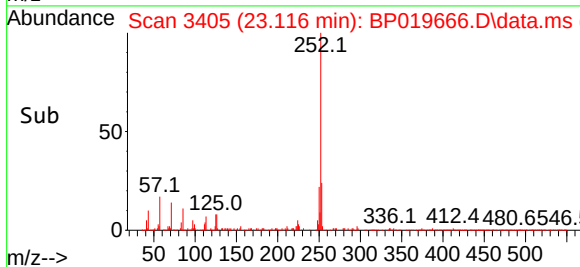
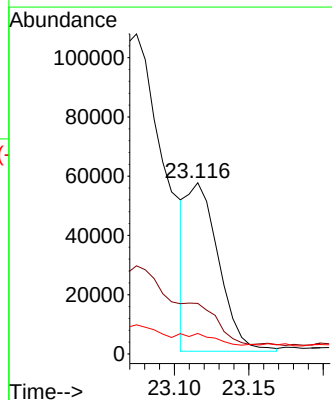
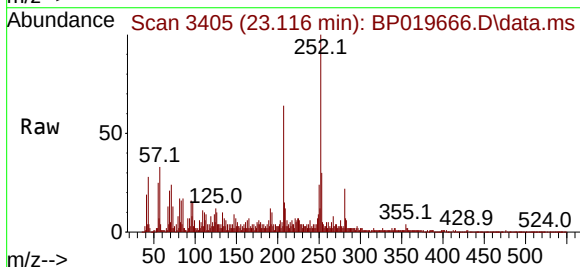
Manual Integrations  
APPROVED

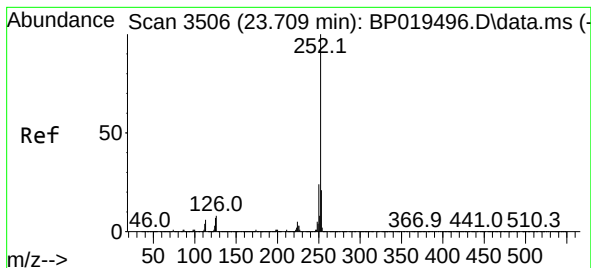
Reviewed By :Yogesh Patel 02/14/2024  
Supervised By :mohammad ahmed 02/14/2024



#89  
Benzo(k)fluoranthene  
Concen: 2.731 ng m  
RT: 23.116 min Scan# 3405  
Delta R.T. -0.011 min  
Lab File: BP019666.D  
Acq: 12 Feb 2024 17:02

Tgt Ion:252 Resp: 84975  
Ion Ratio Lower Upper  
252 100  
253 29.5 17.1 25.7#  
125 12.0 5.0 7.6#





#90

Benzo(a)pyrene

Concen: 7.133 ng

RT: 23.698 min Scan# 3506

Delta R.T. -0.011 min

Lab File: BP019666.D

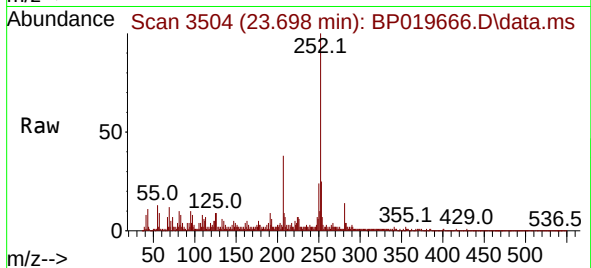
Acq: 12 Feb 2024 17:02

Instrument :

BNA\_P

ClientSampleId :

EO-01-020824



Tgt Ion:252 Resp: 20672

Ion Ratio Lower Upper

252 100

253 25.4 17.1 25.7

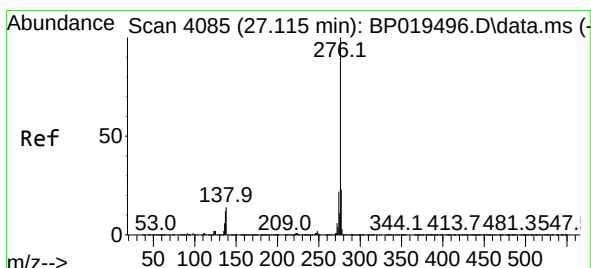
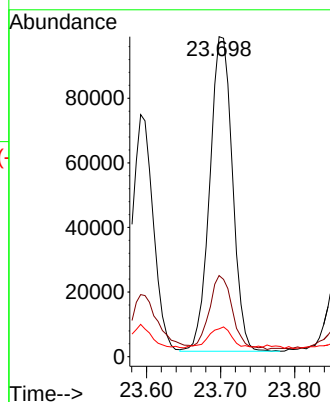
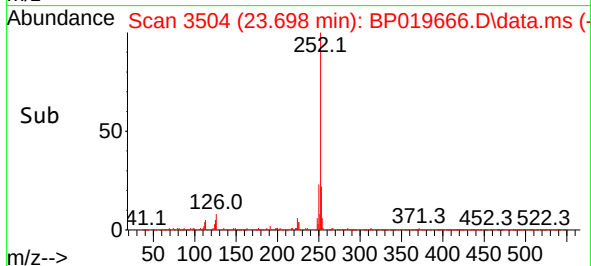
125 8.7 5.6 8.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/14/2024

Supervised By :mohammad ahmed 02/14/2024



#92

Benzo(g,h,i)perylene

Concen: 4.931 ng

RT: 27.110 min Scan# 4084

Delta R.T. -0.005 min

Lab File: BP019666.D

Acq: 12 Feb 2024 17:02

Tgt Ion:276 Resp: 162735

Ion Ratio Lower Upper

276 100

277 24.9 18.6 28.0

138 15.1 10.9 16.3

