

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110123\  
 Data File : BF136083.D  
 Acq On : 01 Nov 2023 18:30  
 Operator : CG\JU  
 Sample : 04858-07DL 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-3DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/02/2023  
 Supervised By :mohammad ahmed 11/02/2023

Quant Time: Nov 01 22:42:05 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 31 01:13:02 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 133293   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 505093   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.863  | 164  | 239833   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.357 | 188  | 368173   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.010 | 240  | 279646   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.504 | 264  | 262472   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.445  | 112  | 351502   | 41.439 | ng    | 0.00     |
| 7) Phenol-d6                | 6.451  | 99   | 428073   | 40.504 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 237410   | 28.335 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.651 | 330  | 91252    | 35.646 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.180  | 172  | 457975   | 30.440 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.951 | 244  | 355529   | 19.757 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 9.892  | 154  | 34368    | 2.571  | ng    | 99       |
| 58) Fluorene                | 10.410 | 166  | 59944    | 4.108  | ng    | 99       |
| 71) Phenanthrene            | 11.380 | 178  | 553901   | 29.880 | ng    | 98       |
| 72) Anthracene              | 11.427 | 178  | 135138   | 7.114  | ng    | 98       |
| 75) Fluoranthene            | 12.574 | 202  | 745019   | 39.121 | ng    | 99       |
| 78) Pyrene                  | 12.804 | 202  | 673109   | 27.301 | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.004 | 228  | 372826   | 20.138 | ng    | 97       |
| 83) Chrysene                | 14.039 | 228  | 331496   | 18.182 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.009 | 276  | 102148   | 5.955  | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.068 | 252  | 365028m  | 23.503 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.092 | 252  | 101925m  | 6.633  | ng    |          |
| 90) Benzo(a)pyrene          | 15.439 | 252  | 234596   | 16.257 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.033 | 278  | 29029m   | 2.066  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.468 | 276  | 89737    | 8.166  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

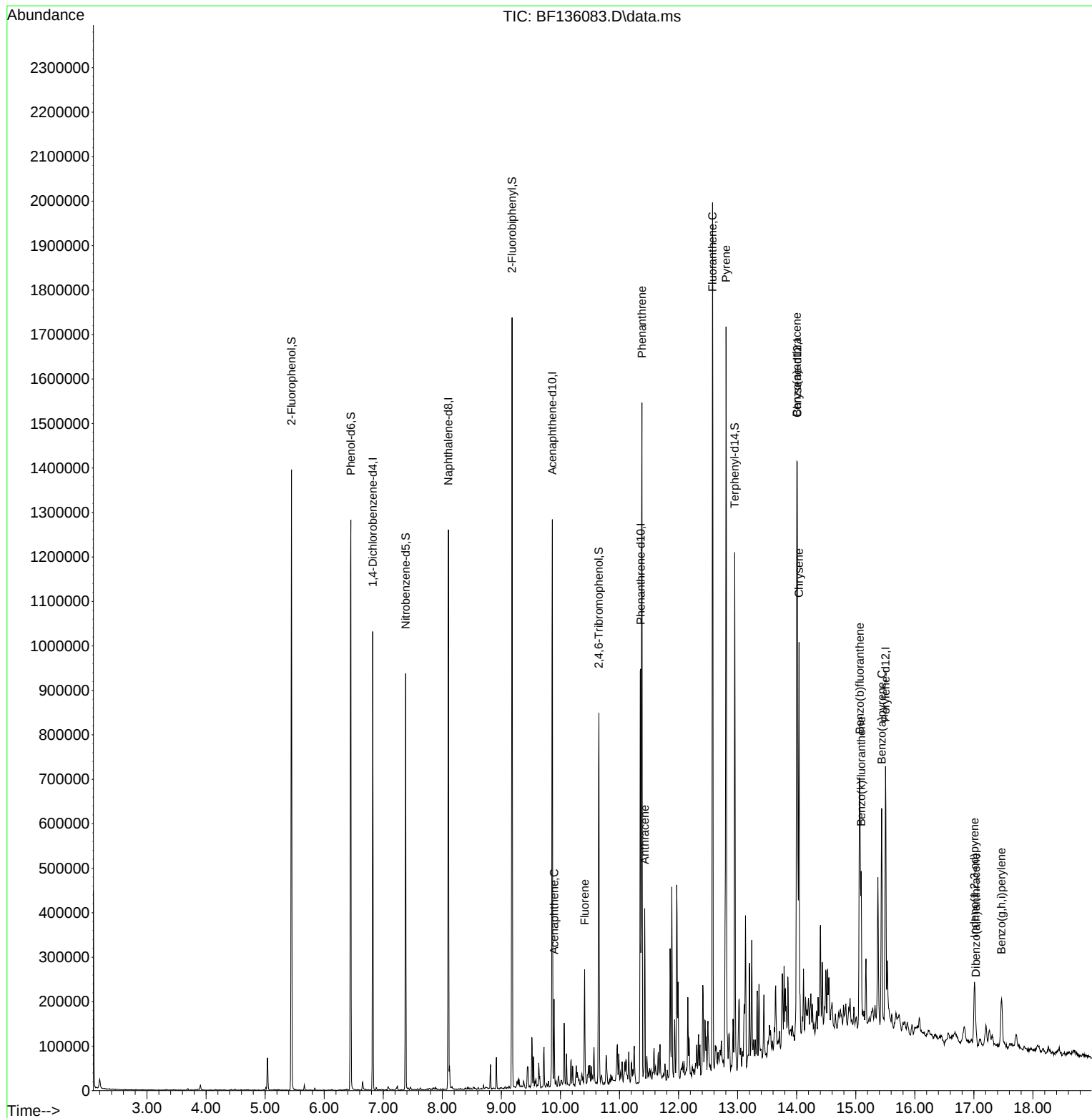
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110123\  
Data File : BF136083.D  
Acq On : 01 Nov 2023 18:30  
Operator : CG\JU  
Sample : 04858-07DL 2X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-3DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

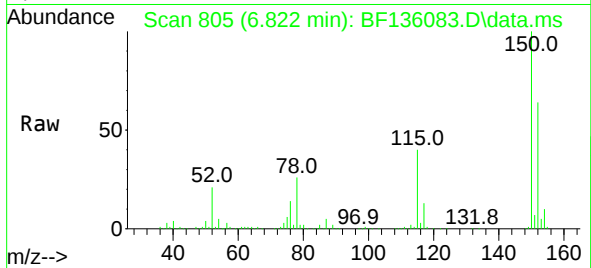
Quant Time: Nov 01 22:42:05 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 31 01:13:02 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

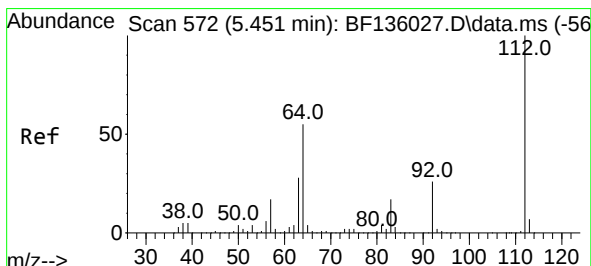
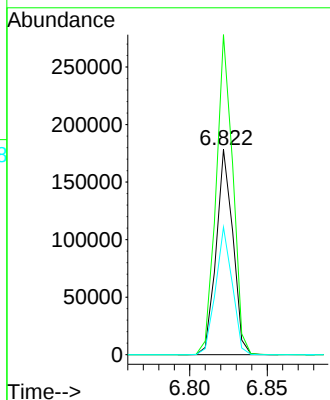
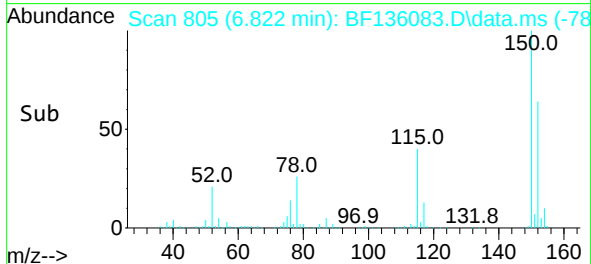
Instrument :  
BNA\_F  
Client SampleId :  
WC-3DL



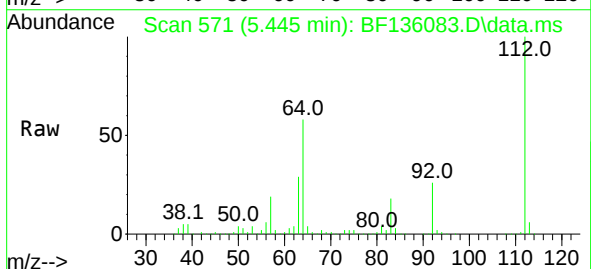
Tgt Ion:152 Resp: 13329  
Ion Ratio Lower Upper  
152 100  
150 155.9 126.4 189.6  
115 62.1 47.0 70.4

Manual Integrations  
APPROVED

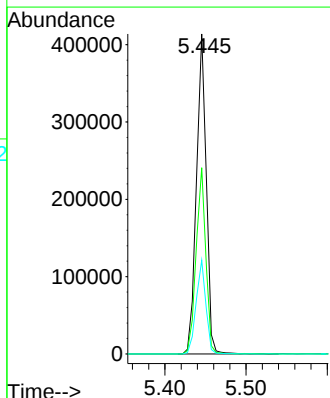
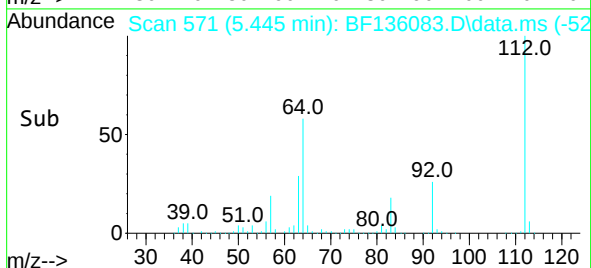
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

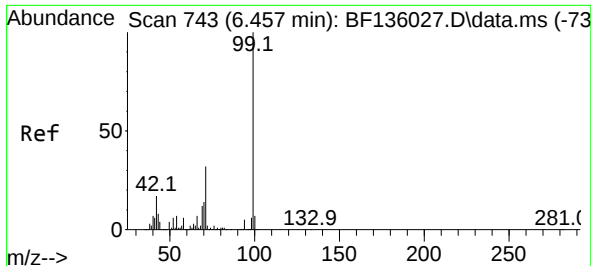


#5  
2-Fluorophenol  
Concen: 41.439 ng  
RT: 5.445 min Scan# 571  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



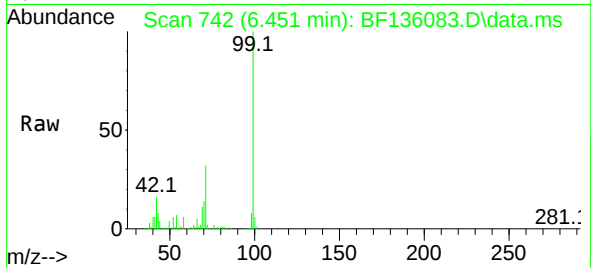
Tgt Ion:112 Resp: 351502  
Ion Ratio Lower Upper  
112 100  
64 58.2 43.9 65.9  
63 29.3 22.4 33.6





#7  
Phenol-d6  
Concen: 40.504 ng  
RT: 6.451 min Scan# 743  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

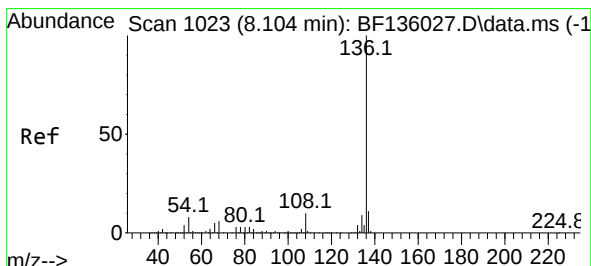
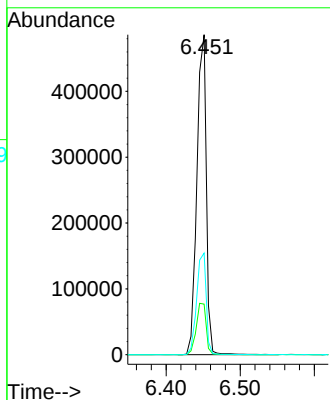
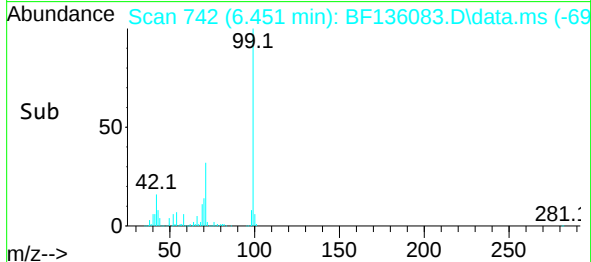
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3DL



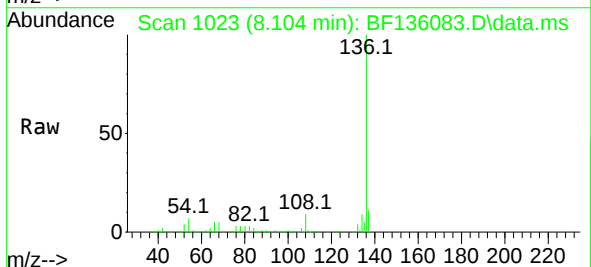
Tgt Ion: 99 Resp: 428073  
Ion Ratio Lower Upper  
99 100  
42 15.8 13.7 20.5  
71 31.8 25.9 38.9

Manual Integrations  
APPROVED

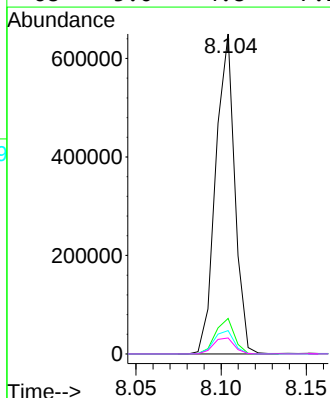
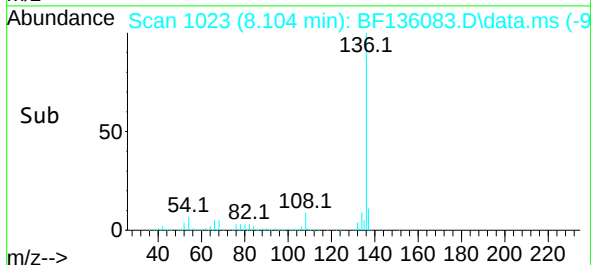
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. 0.000 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



Tgt Ion:136 Resp: 505093  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.6 13.0  
54 7.3 6.6 9.8  
68 5.0 4.8 7.2





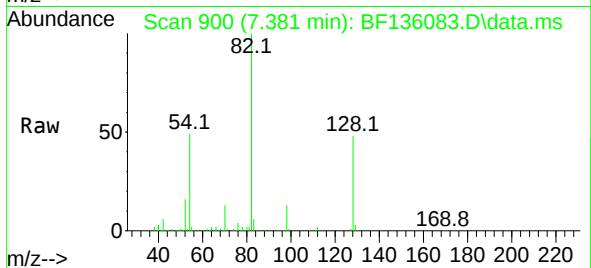
#23  
Nitrobenzene-d5  
Concen: 28.335 ng  
RT: 7.381 min Scan# 902  
Delta R.T. -0.012 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

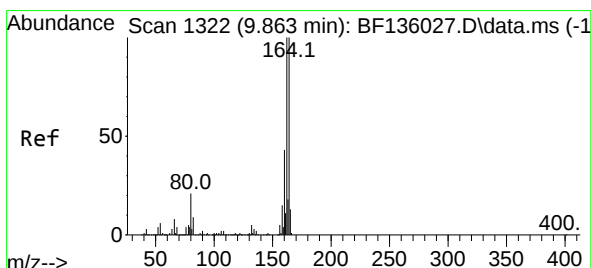
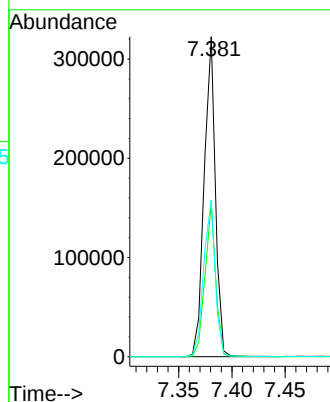
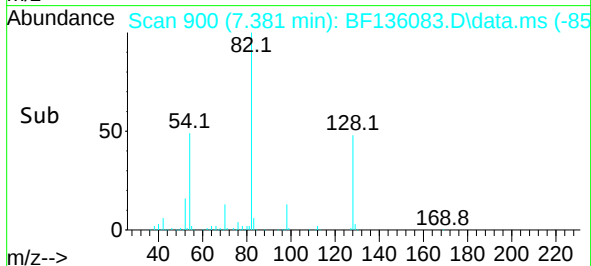


Tgt Ion: 82 Resp: 237410  
Ion Ratio Lower Upper  
82 100  
128 47.9 38.6 57.8  
54 48.9 40.8 61.2

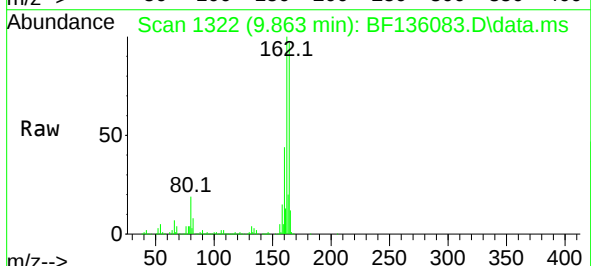
Manual Integrations

APPROVED

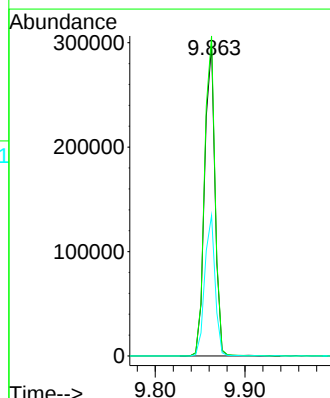
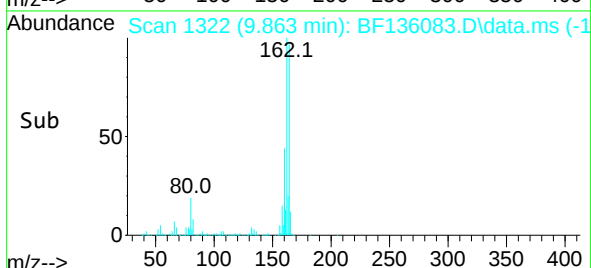
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

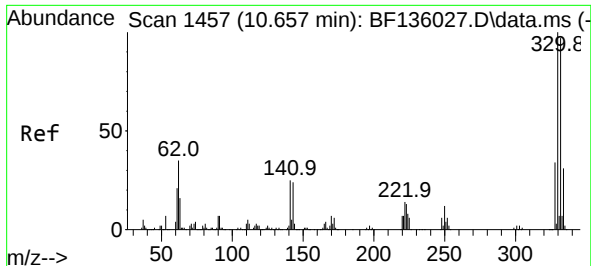


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.863 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



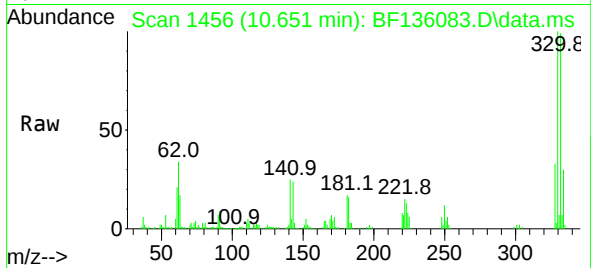
Tgt Ion:164 Resp: 239833  
Ion Ratio Lower Upper  
164 100  
162 102.9 80.1 120.1  
160 45.2 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 35.646 ng  
RT: 10.651 min Scan# 1457  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

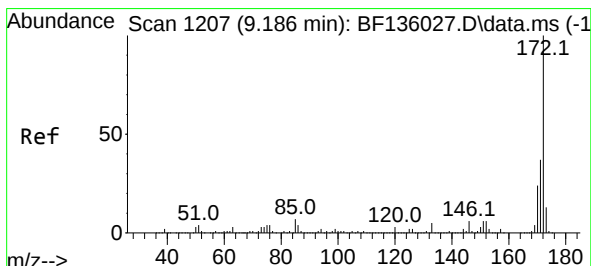
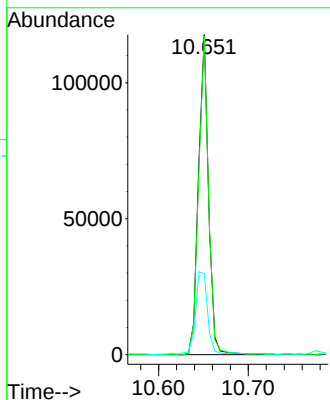
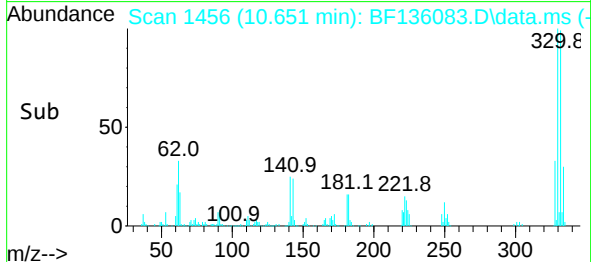
Instrument :  
BNA\_F  
Client Sample Id :  
WC-3DL



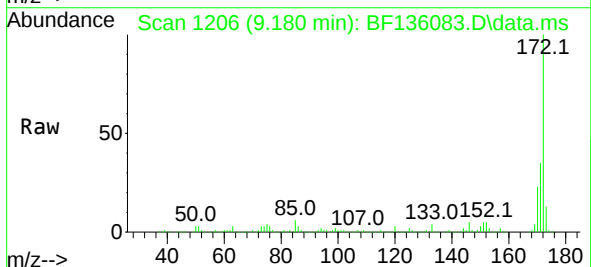
Tgt Ion: 330 Resp: 91252  
Ion Ratio Lower Upper  
330 100  
332 98.4 76.9 115.3  
141 31.4 23.2 34.8

Manual Integrations  
APPROVED

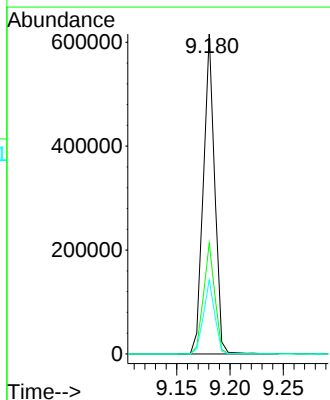
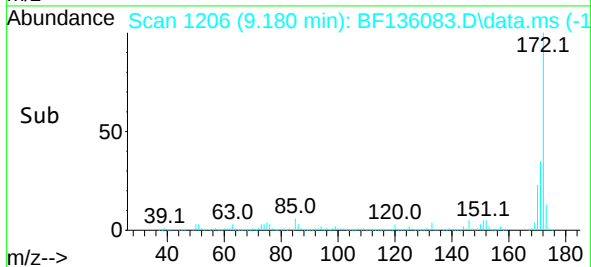
Reviewed By : Yogesh Patel 11/02/2023  
Supervised By : mohammad ahmed 11/02/2023

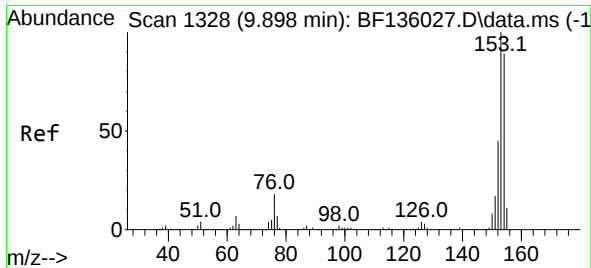


#45  
2-Fluorobiphenyl  
Concen: 30.440 ng  
RT: 9.180 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



Tgt Ion: 172 Resp: 457975  
Ion Ratio Lower Upper  
172 100  
171 34.7 29.4 44.0  
170 23.1 19.3 28.9





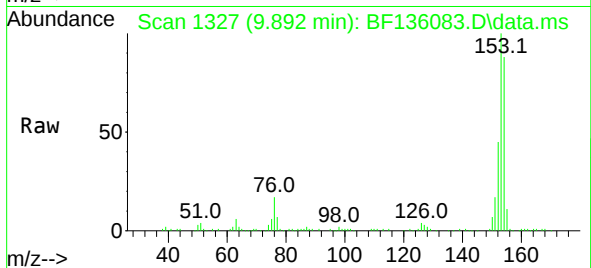
#52  
Acenaphthene  
Concen: 2.571 ng  
RT: 9.892 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

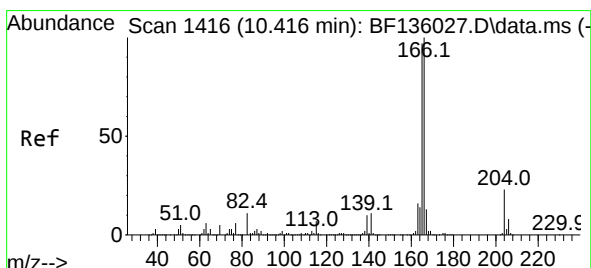
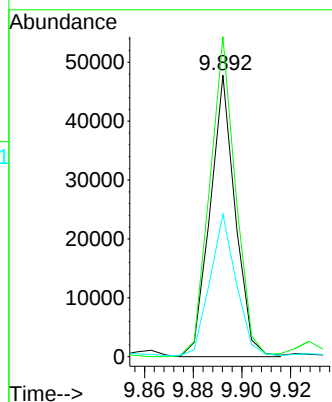
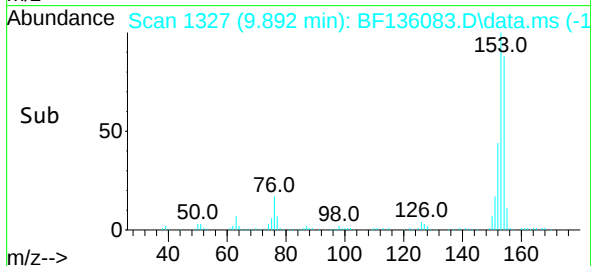


Tgt Ion:154 Resp: 3436  
Ion Ratio Lower Upper  
154 100  
153 113.7 89.9 134.9  
152 50.6 40.2 60.2

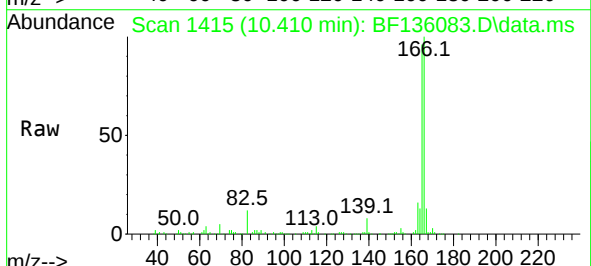
Manual Integrations

APPROVED

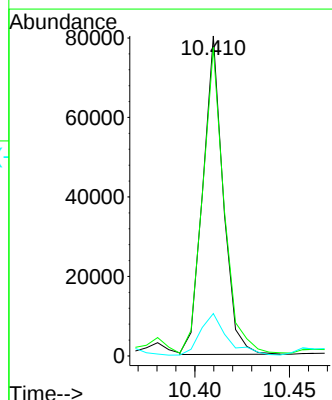
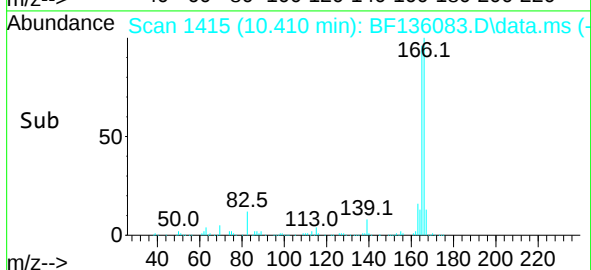
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

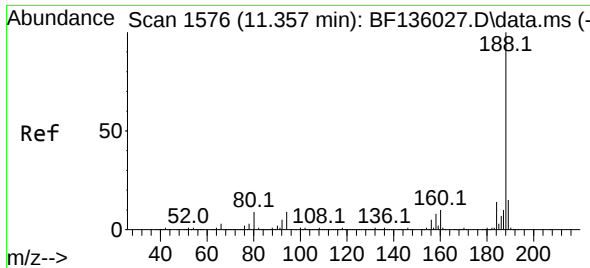


#58  
Fluorene  
Concen: 4.108 ng  
RT: 10.410 min Scan# 1415  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



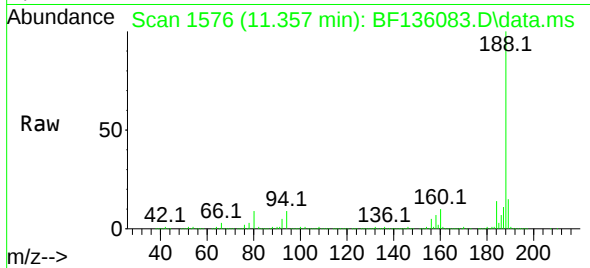
Tgt Ion:166 Resp: 59944  
Ion Ratio Lower Upper  
166 100  
165 96.4 77.7 116.5  
167 13.3 10.6 16.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.357 min Scan# 11357  
Delta R.T. -0.000 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

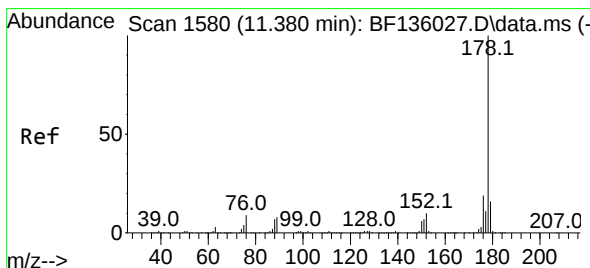
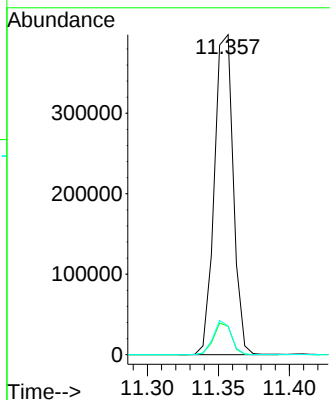
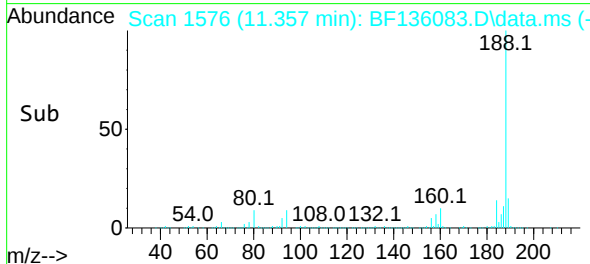
Instrument :  
BNA\_F  
ClientSampleId :  
WC-3DL



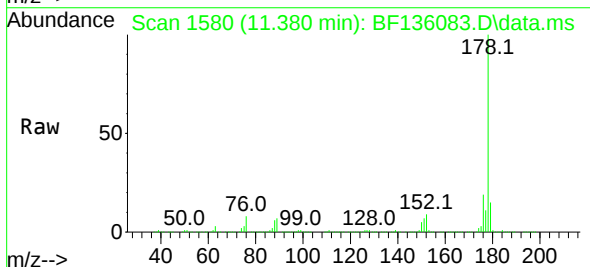
Tgt Ion:188 Resp: 36817  
Ion Ratio Lower Upper  
188 100  
94 8.8 7.2 10.8  
80 9.0 7.4 11.0

Manual Integrations  
APPROVED

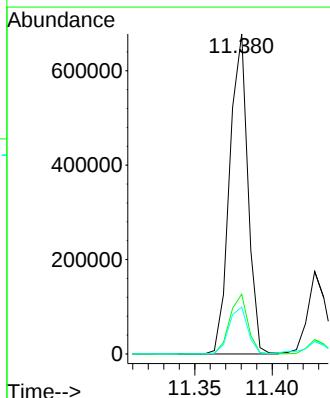
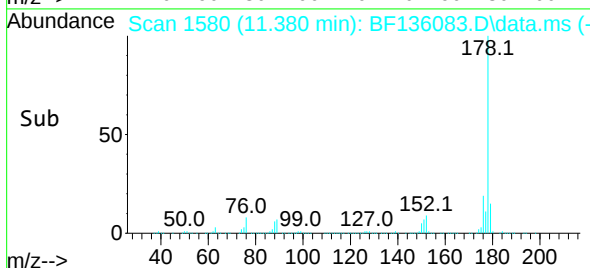
Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023

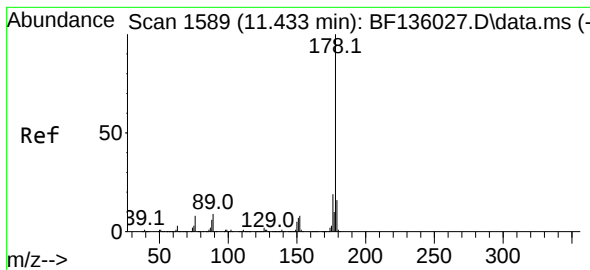


#71  
Phenanthrene  
Concen: 29.880 ng  
RT: 11.380 min Scan# 1580  
Delta R.T. 0.000 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30



Tgt Ion:178 Resp: 553901  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.5 23.3  
179 14.6 12.9 19.3





#72

Anthracene

Concen: 7.114 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

Tgt Ion:178 Resp: 135138

Ion Ratio Lower Upper

178 100

176 17.5 15.0 22.4

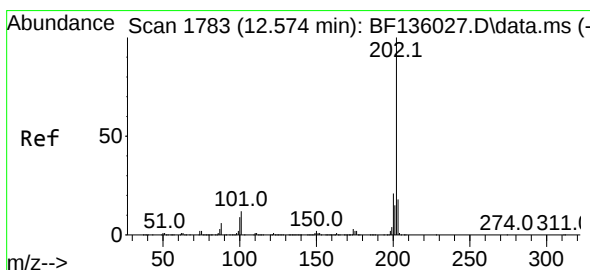
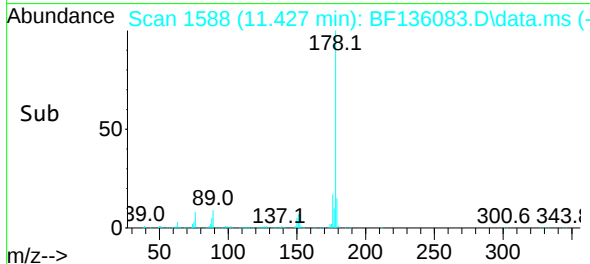
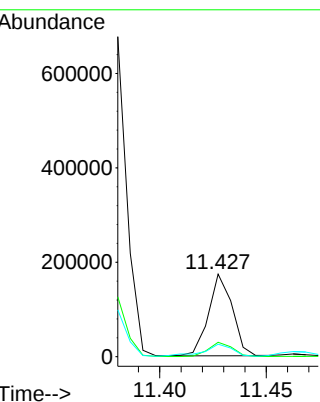
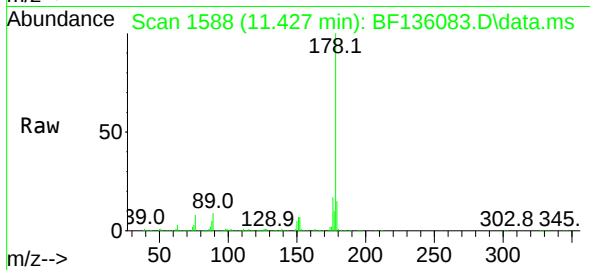
179 15.1 12.6 18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#75

Fluoranthene

Concen: 39.121 ng

RT: 12.574 min Scan# 1783

Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

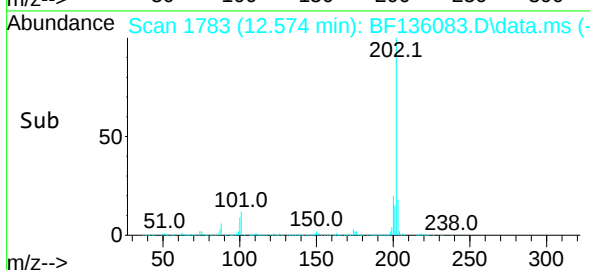
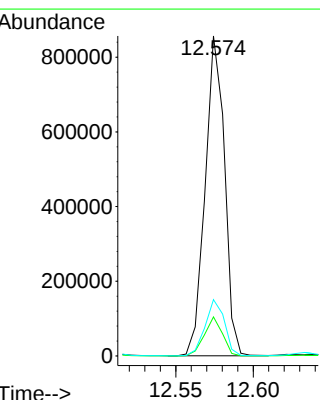
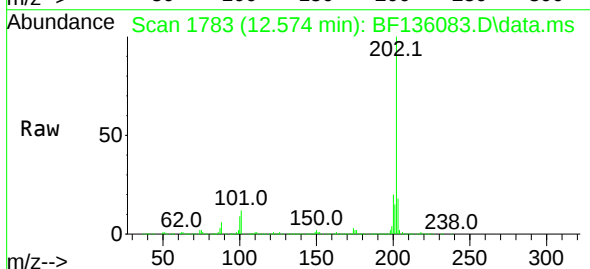
Tgt Ion:202 Resp: 745019

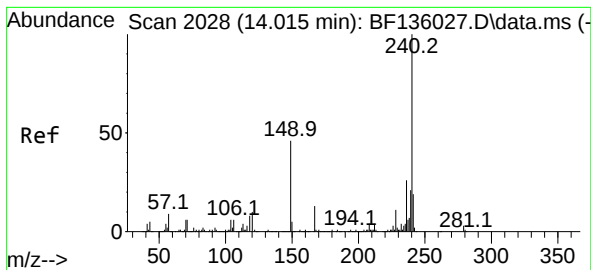
Ion Ratio Lower Upper

202 100

101 12.2 0.0 31.8

203 17.6 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

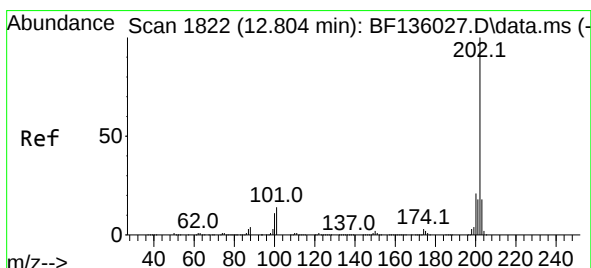
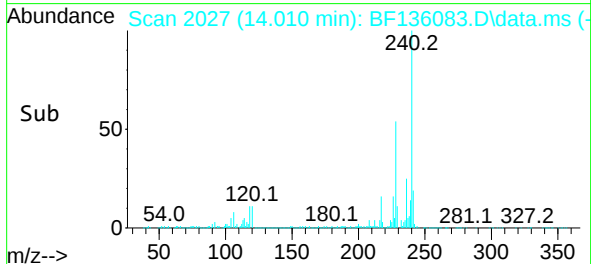
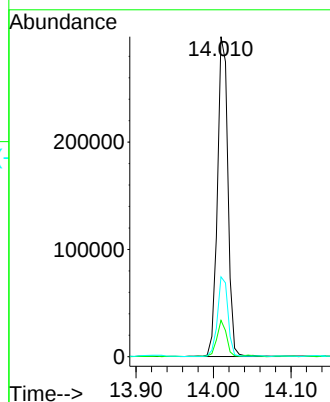
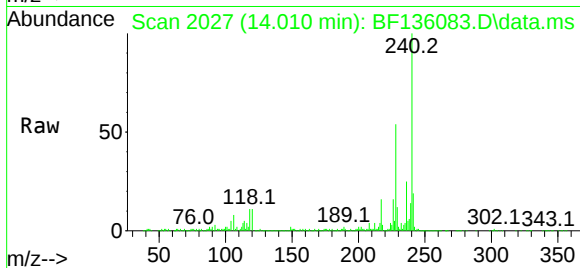
Tgt Ion:240 Resp: 279640  
 Ion Ratio Lower Upper  
 240 100  
 120 11.4 7.6 11.4  
 236 25.0 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#78

Pyrene

Concen: 27.301 ng

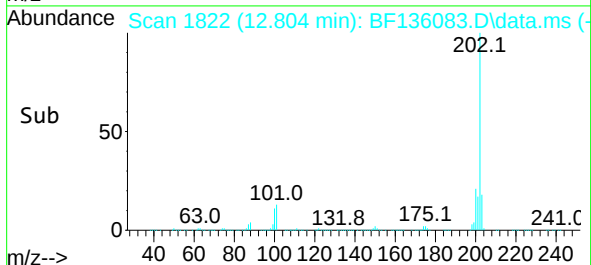
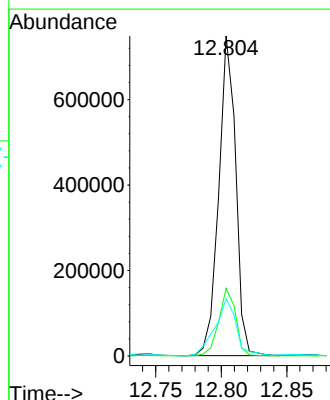
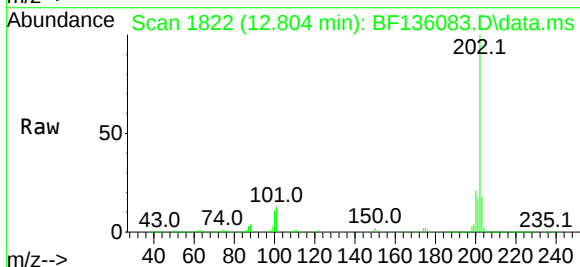
RT: 12.804 min Scan# 1822

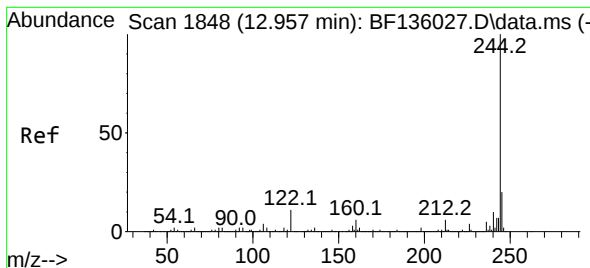
Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Tgt Ion:202 Resp: 673109  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 17.0 25.4  
 203 17.9 14.4 21.6





#79

Terphenyl-d14

Concen: 19.757 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136083.D

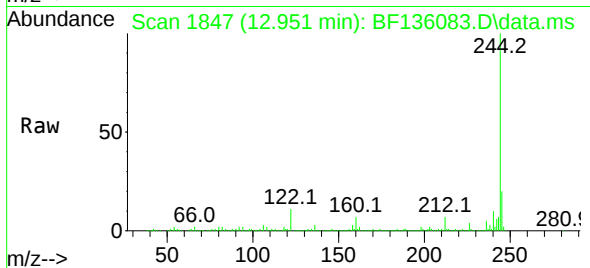
Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL



Tgt Ion:244 Resp: 355529

Ion Ratio Lower Upper

244 100

212 6.5 5.1 7.7

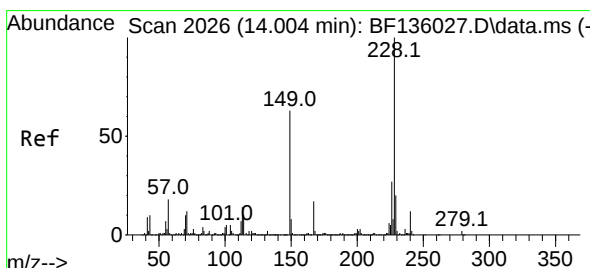
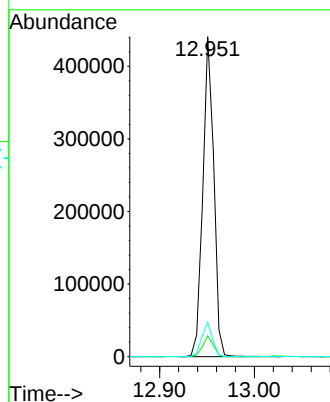
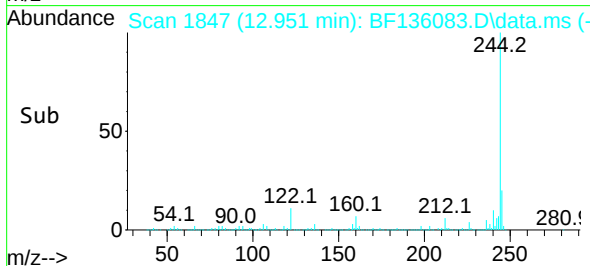
122 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#81

Benzo(a)anthracene

Concen: 20.138 ng

RT: 14.004 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

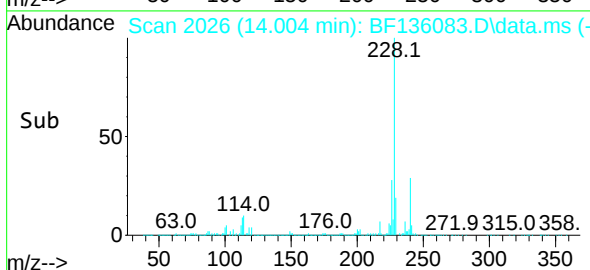
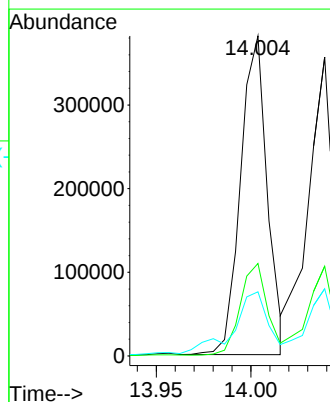
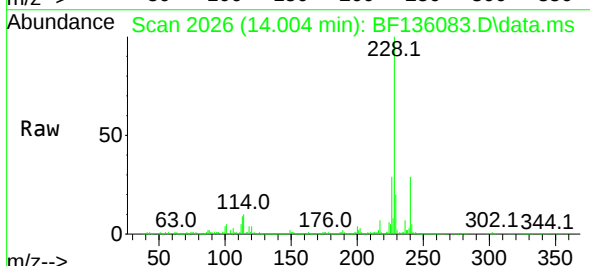
Tgt Ion:228 Resp: 372826

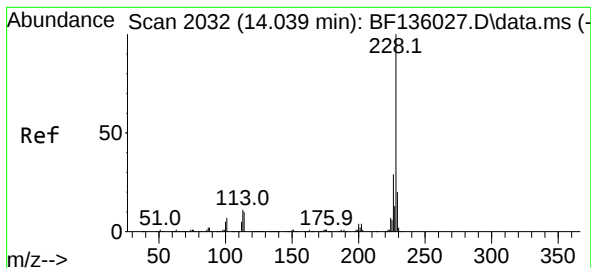
Ion Ratio Lower Upper

228 100

226 28.9 21.5 32.3

229 20.1 15.8 23.6





#83

Chrysene

Concen: 18.182 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

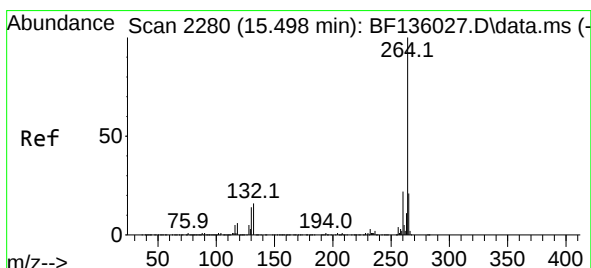
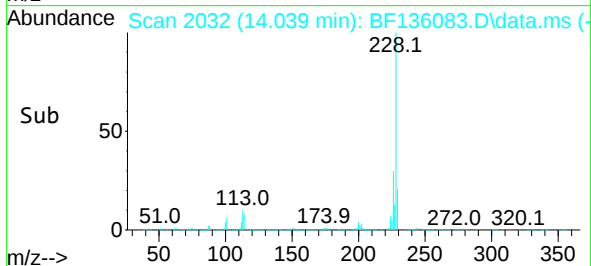
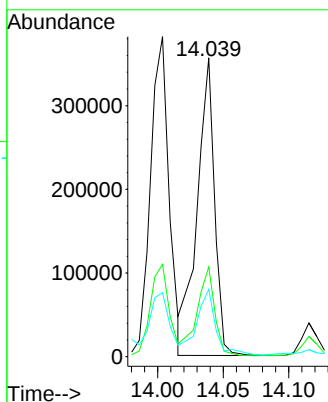
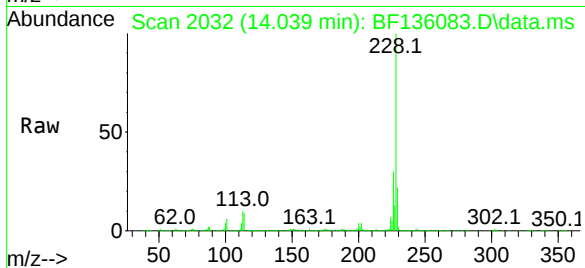
WC-3DL

Tgt Ion:228 Resp: 331490  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 23.5 35.3  
 229 22.5 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023  
 Supervised By :mohammad ahmed 11/02/2023



#86

Perylene-d12

Concen: 20.000 ng

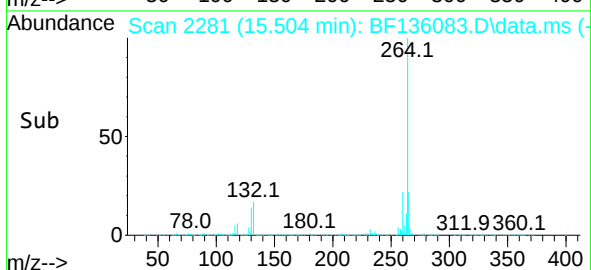
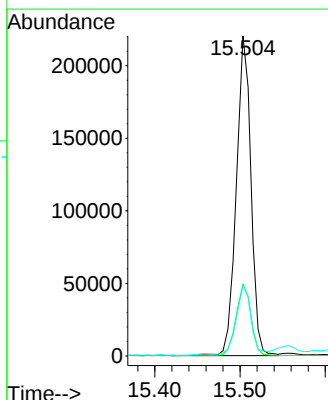
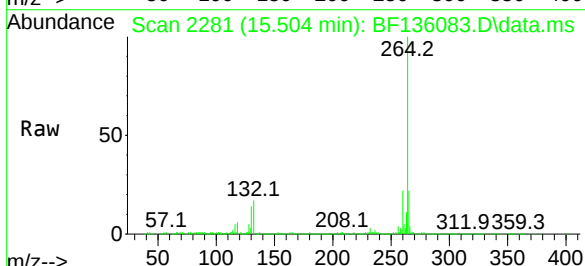
RT: 15.504 min Scan# 2281

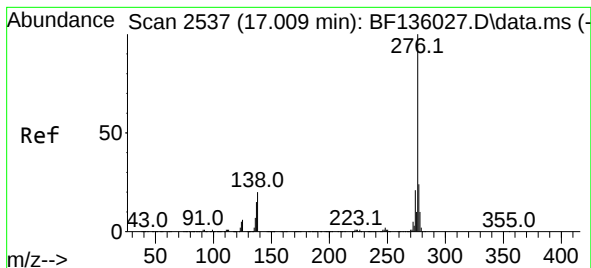
Delta R.T. 0.006 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Tgt Ion:264 Resp: 262472  
 Ion Ratio Lower Upper  
 264 100  
 260 22.3 17.9 26.9  
 265 22.1 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.955 ng

RT: 17.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

Tgt Ion:276 Resp: 10214

Ion Ratio Lower Upper

276 100

138 20.5 20.4 30.6

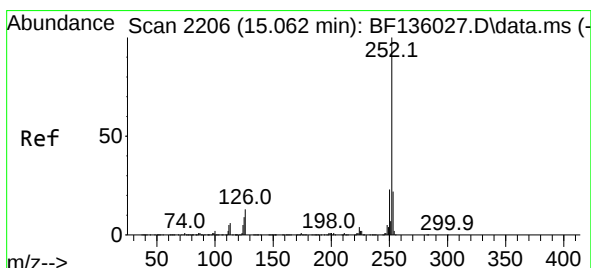
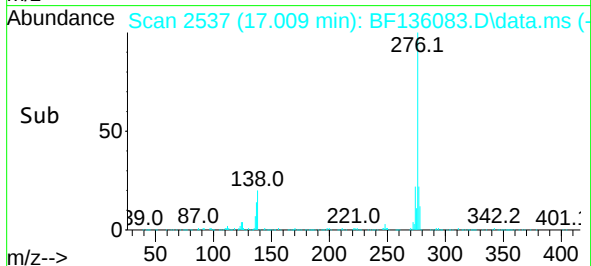
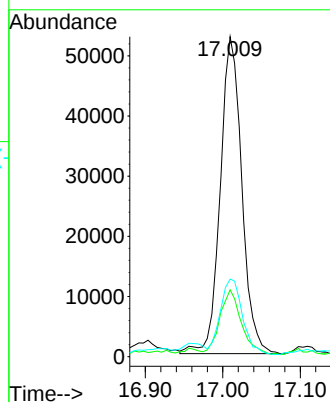
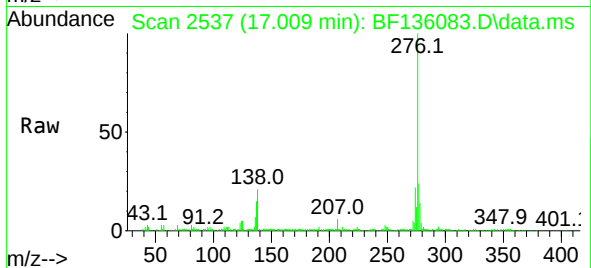
277 24.5 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#88

Benzo(b)fluoranthene

Concen: 23.503 ng m

RT: 15.068 min Scan# 2207

Delta R.T. 0.006 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

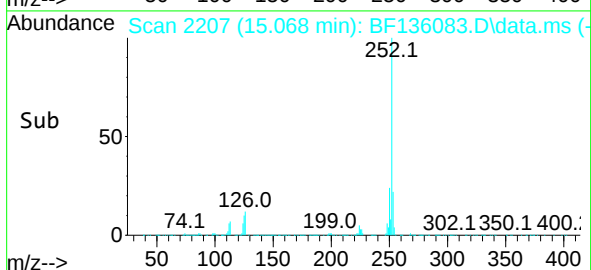
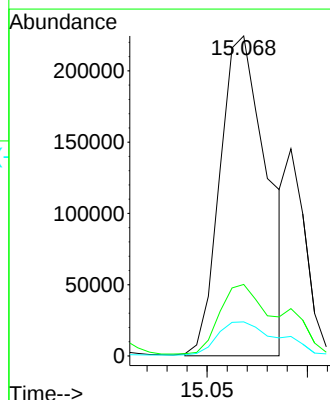
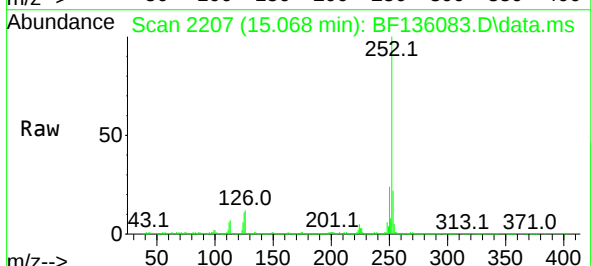
Tgt Ion:252 Resp: 365028

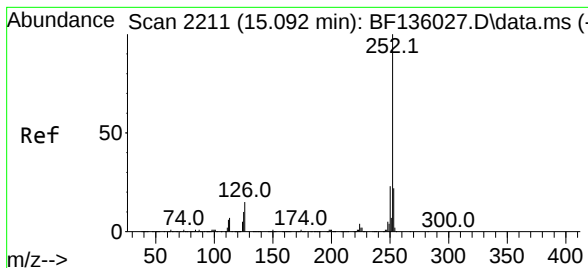
Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

125 10.7 7.5 11.3





#89

Benzo(k)fluoranthene

Concen: 6.633 ng m

RT: 15.092 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Instrument :

BNA\_F

ClientSampleId :

WC-3DL

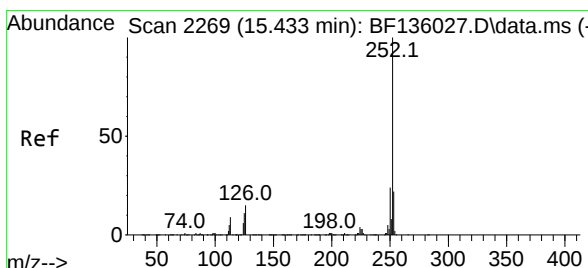
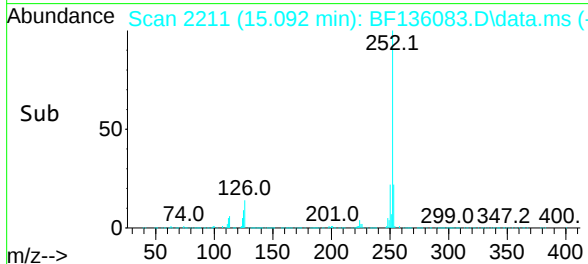
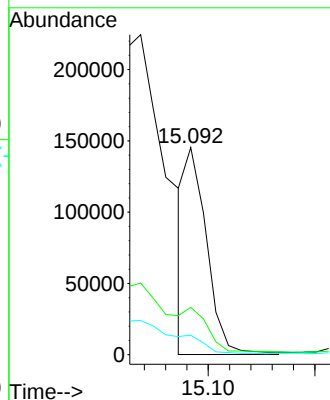
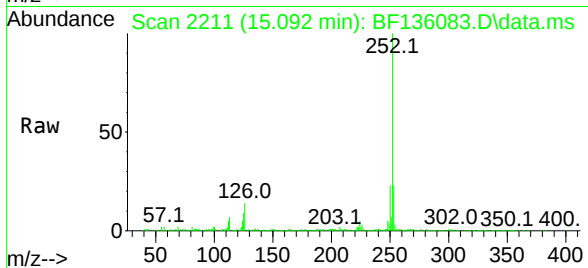
Tgt Ion:252 Resp: 101925  
 Ion Ratio Lower Upper  
 252 100  
 253 22.8 17.4 26.0  
 125 9.4 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/02/2023

Supervised By :mohammad ahmed 11/02/2023



#90

Benzo(a)pyrene

Concen: 16.257 ng

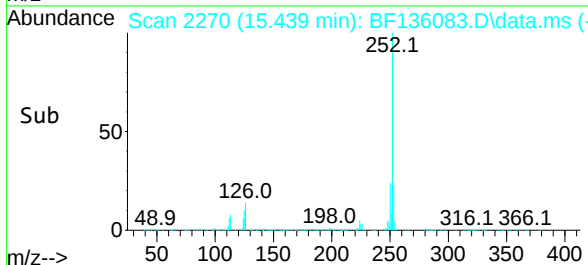
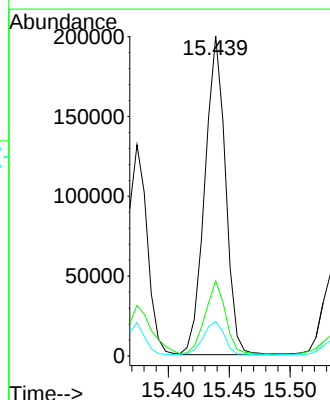
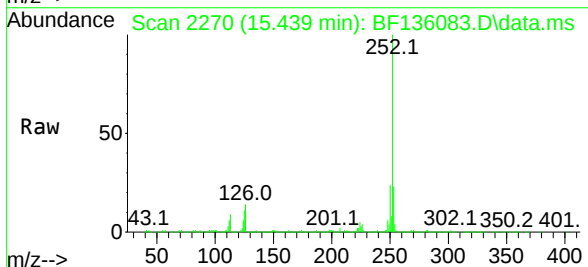
RT: 15.439 min Scan# 2270

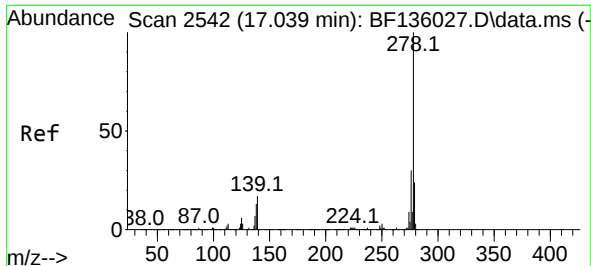
Delta R.T. 0.006 min

Lab File: BF136083.D

Acq: 01 Nov 2023 18:30

Tgt Ion:252 Resp: 234596  
 Ion Ratio Lower Upper  
 252 100  
 253 23.4 17.3 25.9  
 125 10.8 9.0 13.6





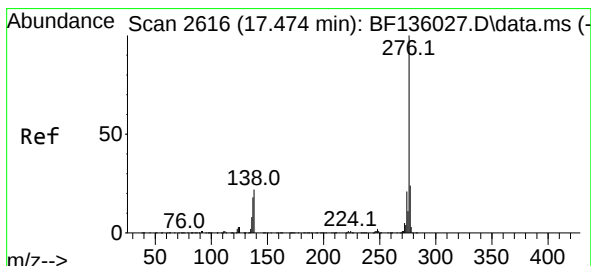
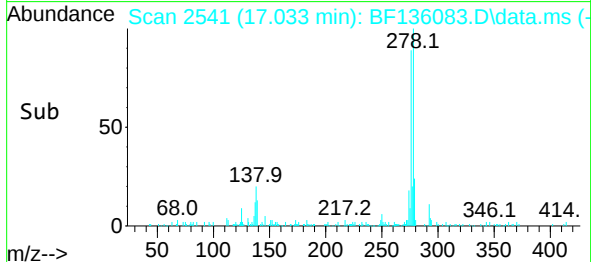
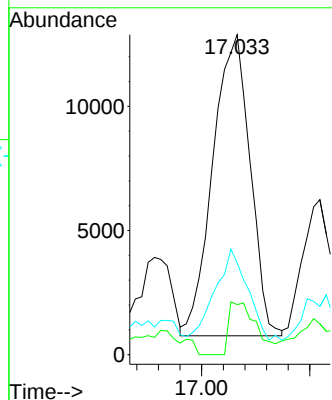
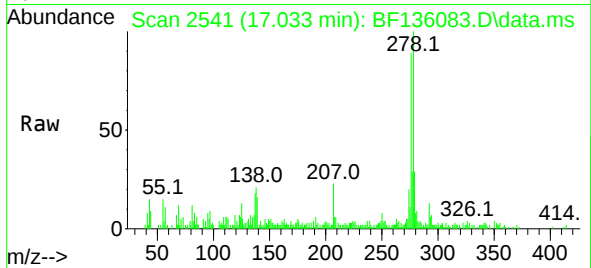
#91  
Dibenzo(a,h)anthracene  
Concen: 2.066 ng m  
RT: 17.033 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

Instrument :  
BNA\_F  
ClientSampleId :  
WC-3DL

Tgt Ion:278 Resp: 29029  
Ion Ratio Lower Upper  
278 100  
139 15.6 13.7 20.5  
279 28.6 19.0 28.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/02/2023  
Supervised By :mohammad ahmed 11/02/2023



#92  
Benzo(g,h,i)perylene  
Concen: 8.166 ng  
RT: 17.468 min Scan# 2615  
Delta R.T. -0.006 min  
Lab File: BF136083.D  
Acq: 01 Nov 2023 18:30

Tgt Ion:276 Resp: 89737  
Ion Ratio Lower Upper  
276 100  
277 25.3 19.0 28.4  
138 21.8 17.4 26.2

