

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081225\  
 Data File : BF143363.D  
 Acq On : 12 Aug 2025 20:02  
 Operator : RC/JU  
 Sample : Q2831-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-238

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 08/13/2025  
 Supervised By :Jagrut Upadhyay 08/13/2025

Quant Time: Aug 13 01:01:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 12 13:25:39 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.928  | 152  | 150426   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.210  | 136  | 560117   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.963  | 164  | 283111   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.451 | 188  | 417526   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.086 | 240  | 395967   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.580 | 264  | 441728   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.557  | 112  | 380721   | 43.767 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.551  | 99   | 476726   | 42.736 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.481  | 82   | 298338   | 33.169 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.751 | 330  | 102238   | 49.413 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.280  | 172  | 598644   | 35.857 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.027 | 244  | 591498   | 26.669 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene              | 9.992  | 154  | 40829    | 2.698  | ng    | 99       |
| 58) Fluorene                  | 10.510 | 166  | 55789    | 3.353  | ng    | 98       |
| 71) Phenanthrene              | 11.474 | 178  | 566360   | 24.862 | ng    | 100      |
| 72) Anthracene                | 11.521 | 178  | 132678   | 5.743  | ng    | 99       |
| 73) Carbazole                 | 11.674 | 167  | 40517    | 2.059  | ng    | 99       |
| 75) Fluoranthene              | 12.663 | 202  | 815490   | 40.868 | ng    | 98       |
| 78) Pyrene                    | 12.892 | 202  | 696045   | 20.954 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.080 | 228  | 421522   | 16.749 | ng    | 97       |
| 83) Chrysene                  | 14.110 | 228  | 333948   | 14.230 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.062 | 149  | 14613    | 5.377  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.086 | 276  | 172472   | 5.450  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.145 | 252  | 512548m  | 21.214 | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.157 | 252  | 195897m  | 8.344  | ng    |          |
| 90) Benzo(a)pyrene            | 15.515 | 252  | 352233   | 15.479 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.545 | 276  | 148469   | 5.829  | ng    | 100      |
| -----                         |        |      |          |        |       |          |

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

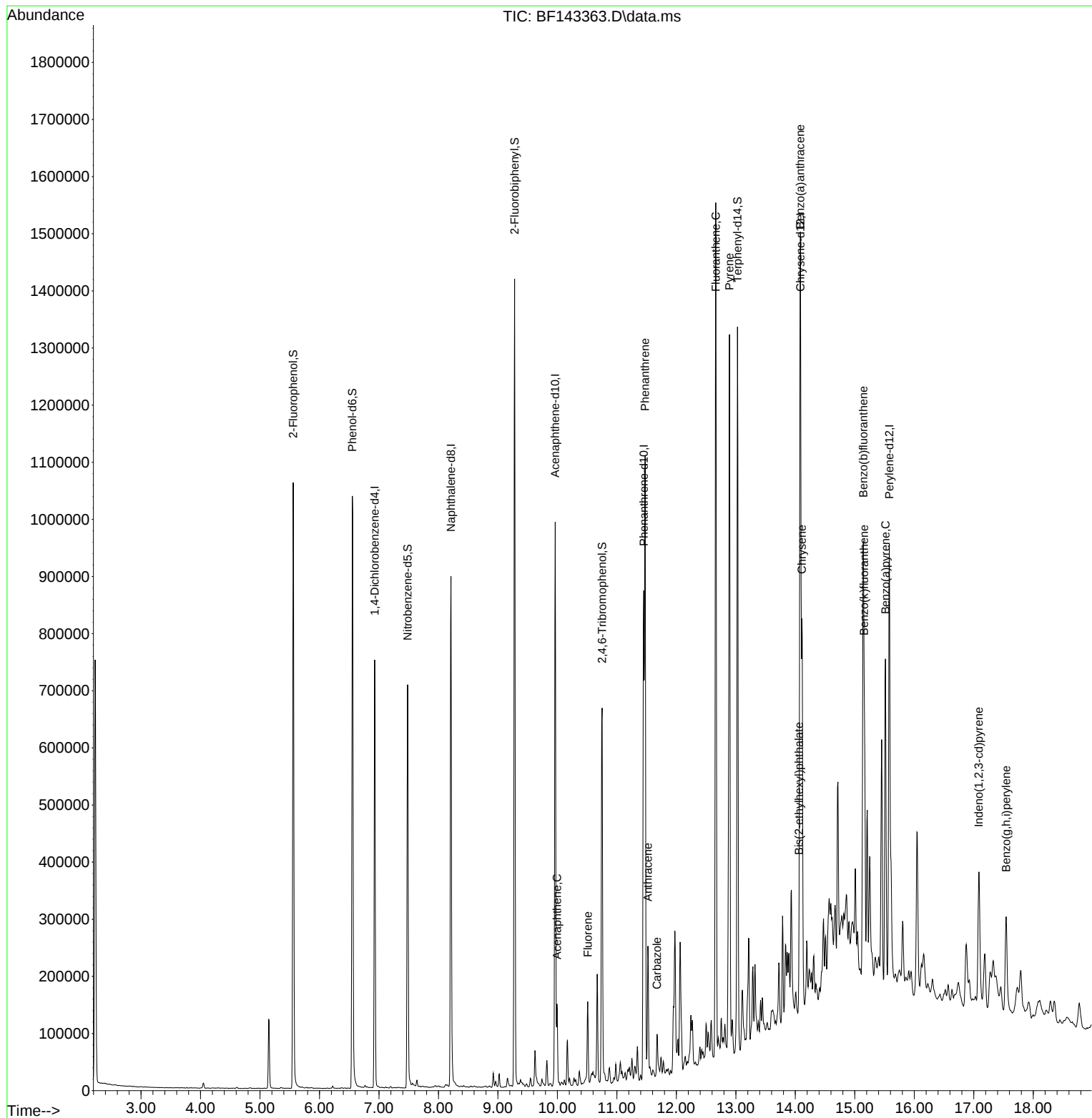
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081225\  
Data File : BF143363.D  
Acq On : 12 Aug 2025 20:02  
Operator : RC/JU  
Sample : Q2831-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

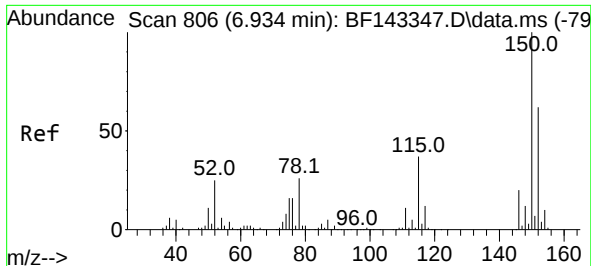
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238

Quant Time: Aug 13 01:01:18 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 12 13:25:39 2025  
Response via : Initial Calibration

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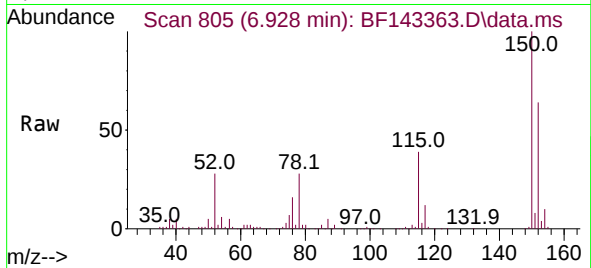
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.928 min Scan# 806  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

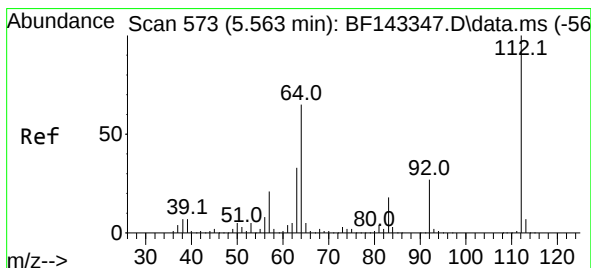
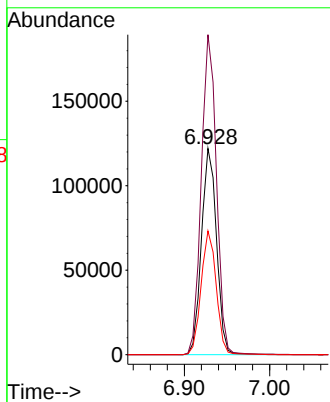
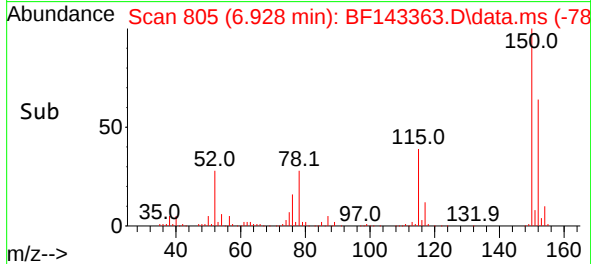
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:152 Resp: 150420  
Ion Ratio Lower Upper  
152 100  
150 155.2 129.8 194.8  
115 60.0 47.8 71.8

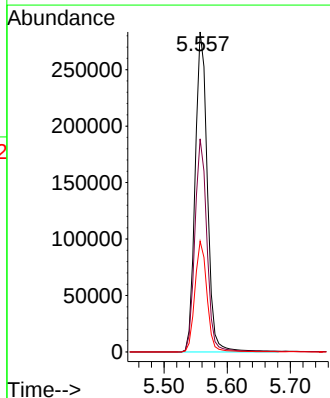
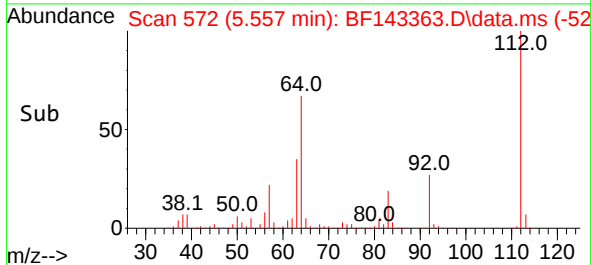
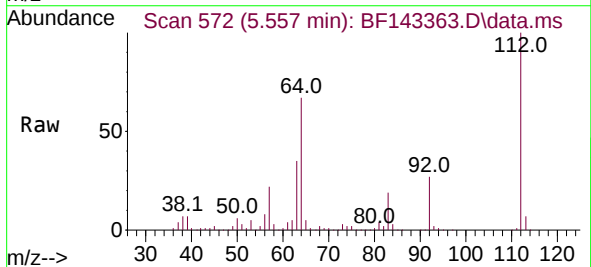
Manual Integrations  
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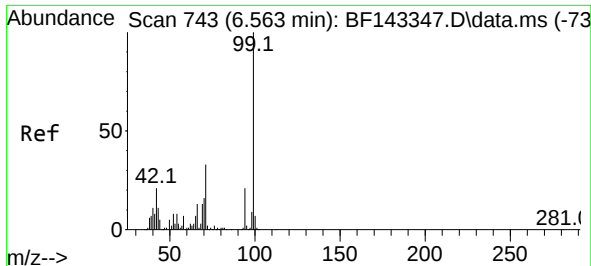
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#5  
2-Fluorophenol  
Concen: 43.767 ng  
RT: 5.557 min Scan# 572  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

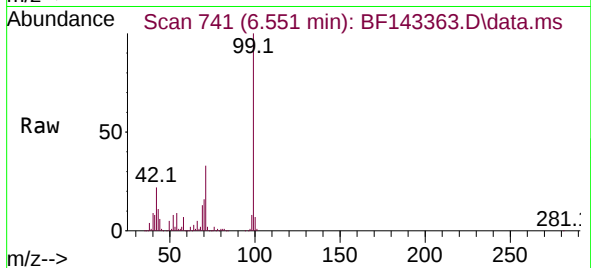
Tgt Ion:112 Resp: 380721  
Ion Ratio Lower Upper  
112 100  
64 66.6 52.1 78.1  
63 34.6 26.6 39.8





#7  
Phenol-d6  
Concen: 42.736 ng  
RT: 6.551 min Scan# 743  
Delta R.T. -0.012 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

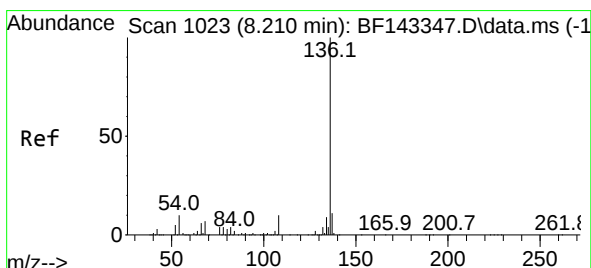
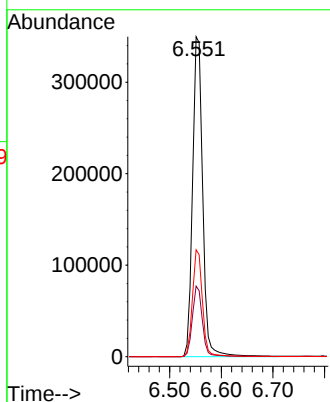
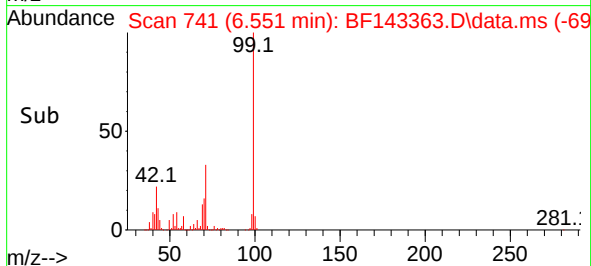
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion: 99 Resp: 476720  
Ion Ratio Lower Upper  
99 100  
42 22.1 16.6 25.0  
71 33.4 26.2 39.2

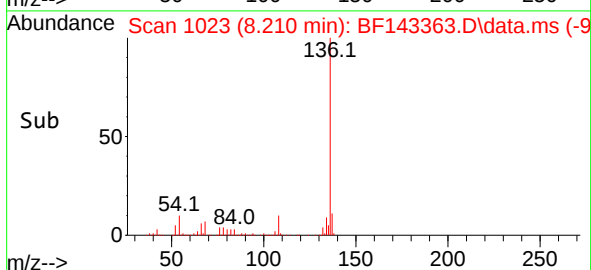
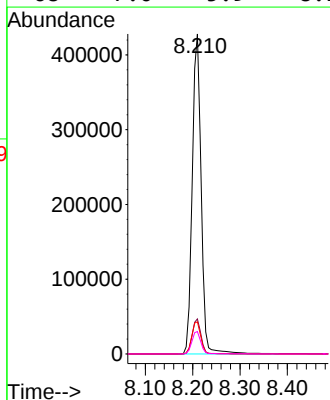
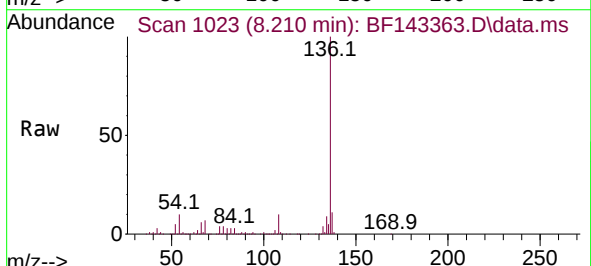
Manual Integrations  
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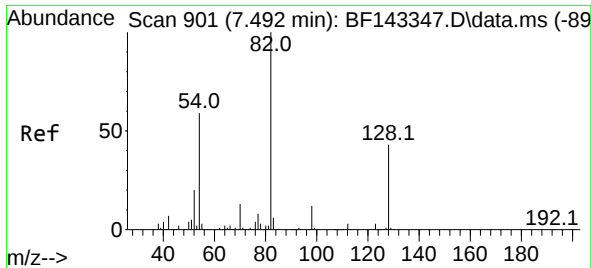
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.210 min Scan# 1023  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

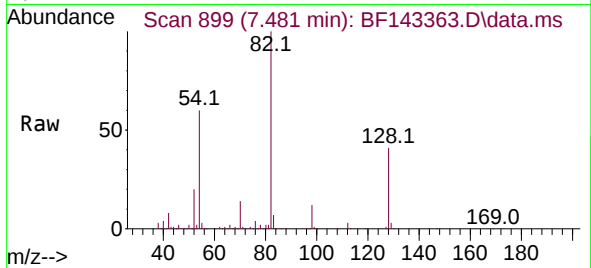
Tgt Ion:136 Resp: 560117  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 10.0 8.4 12.6  
68 7.0 5.9 8.9





#23  
Nitrobenzene-d5  
Concen: 33.169 ng  
RT: 7.481 min Scan# 899  
Delta R.T. -0.012 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

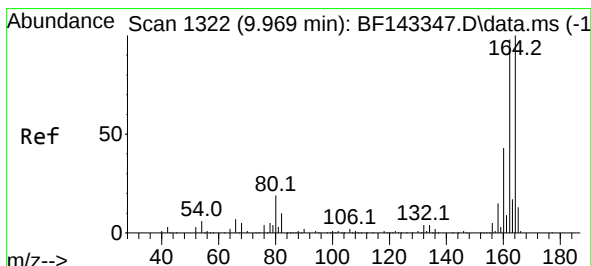
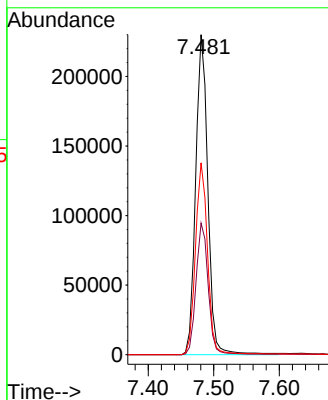
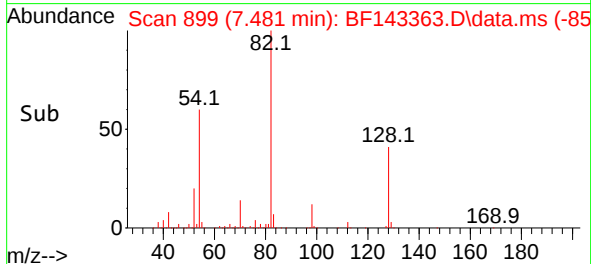
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



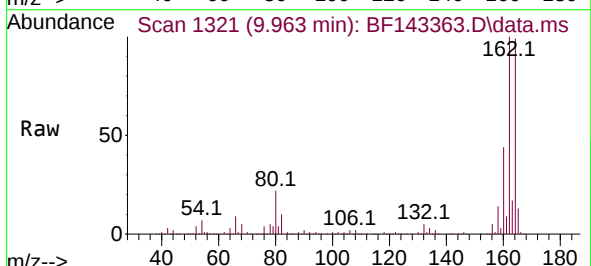
Tgt Ion: 82 Resp: 298338  
Ion Ratio Lower Upper  
82 100  
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54 60.0 46.7 70.1

Manual Integrations  
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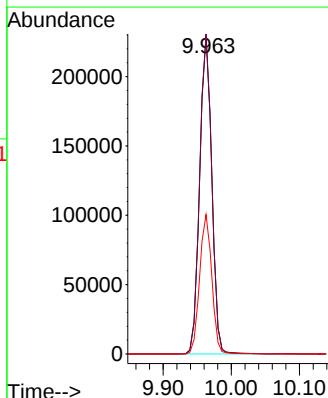
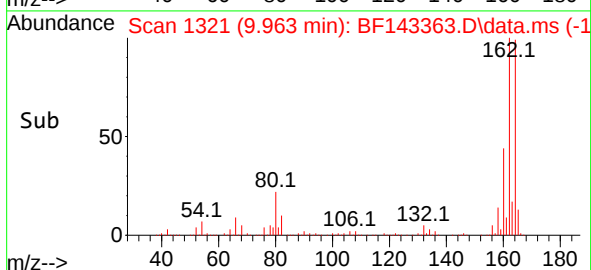
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025

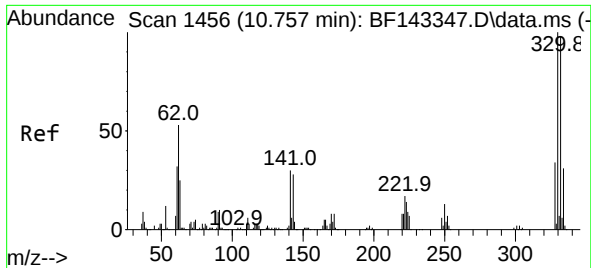


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.963 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02



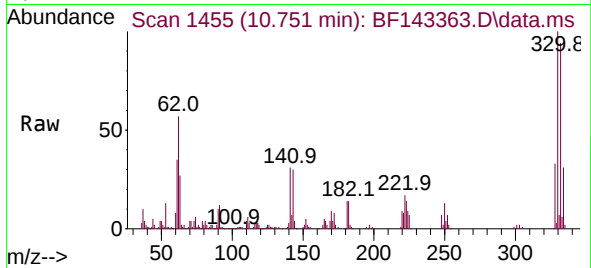
Tgt Ion:164 Resp: 283111  
Ion Ratio Lower Upper  
164 100  
162 100.6 78.6 118.0  
160 43.8 34.4 51.6





#42  
2,4,6-Tribromophenol  
Concen: 49.413 ng  
RT: 10.751 min Scan# 1456  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

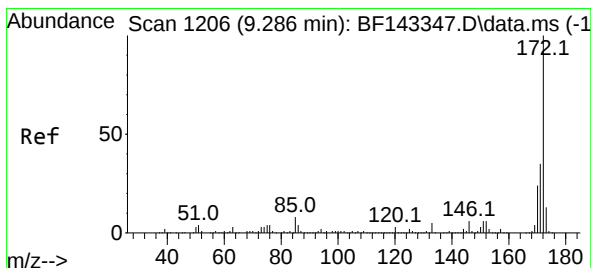
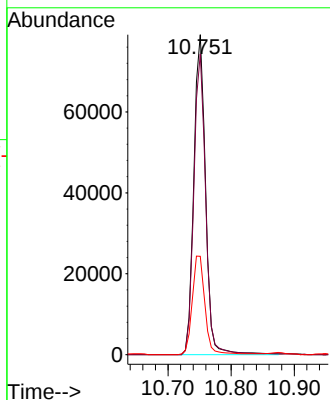
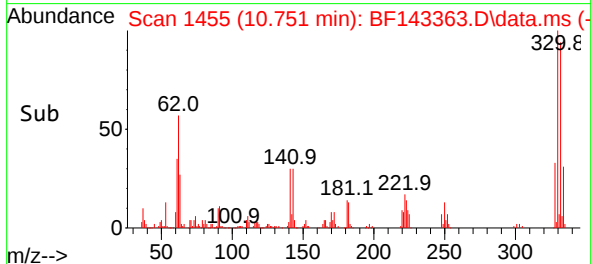
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



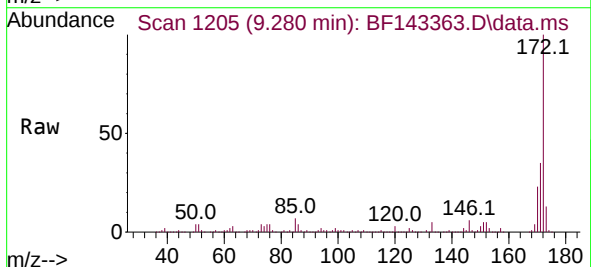
Tgt Ion:330 Resp: 102238  
Ion Ratio Lower Upper  
330 100  
332 95.2 78.1 117.1  
141 33.5 25.4 38.0

Manual Integrations  
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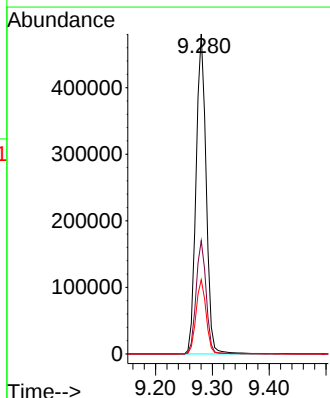
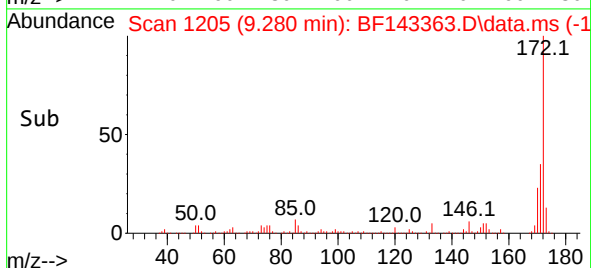
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025

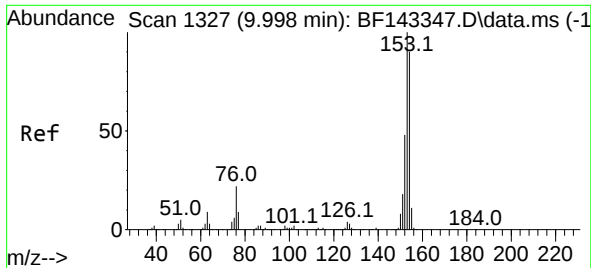


#45  
2-Fluorobiphenyl  
Concen: 35.857 ng  
RT: 9.280 min Scan# 1205  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02



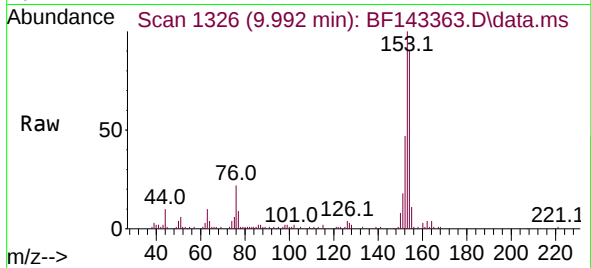
Tgt Ion:172 Resp: 598644  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.4 42.6  
170 23.2 19.1 28.7





#52  
Acenaphthene  
Concen: 2.698 ng  
RT: 9.992 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

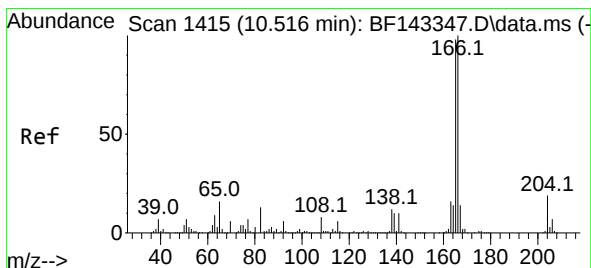
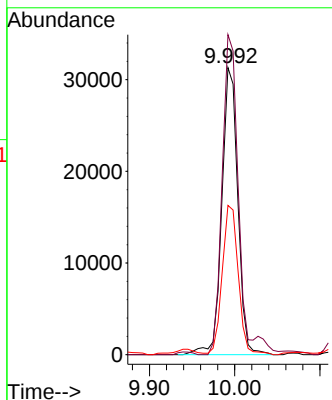
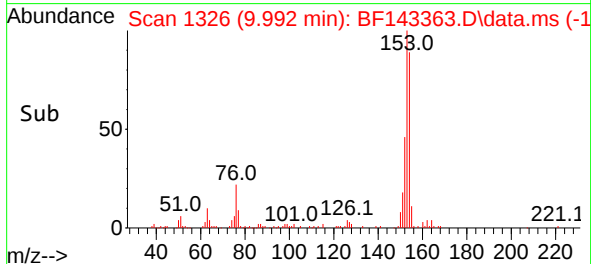
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



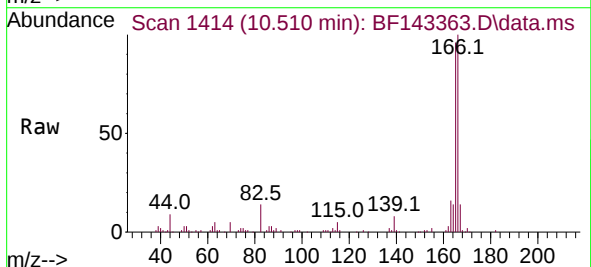
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Ion Ratio Lower Upper  
154 100  
153 111.5 88.5 132.7  
152 52.0 42.4 63.6

Manual Integrations  
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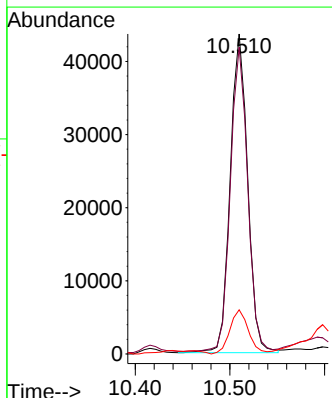
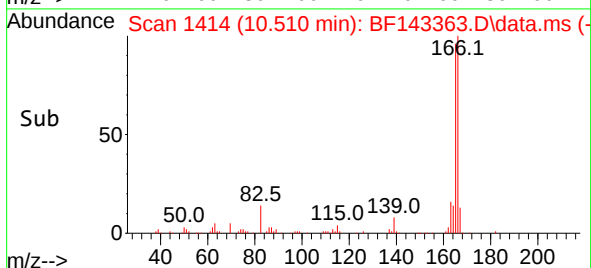
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025

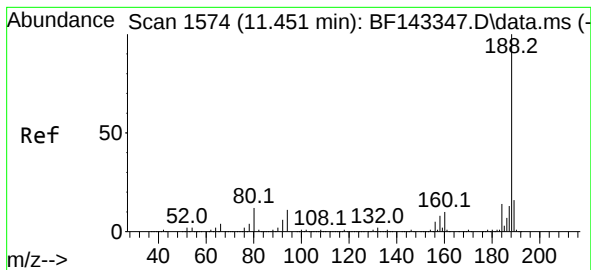


#58  
Fluorene  
Concen: 3.353 ng  
RT: 10.510 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02



Tgt Ion:166 Resp: 55789  
Ion Ratio Lower Upper  
166 100  
165 95.9 78.2 117.4  
167 13.8 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.451 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF143363.D

Acq: 12 Aug 2025 20:02

Instrument :

BNA\_F

ClientSampleId :

VNJ-238

Tgt Ion:188 Resp: 417520

Ion Ratio Lower Upper

188 100

94 10.8 8.8 13.2

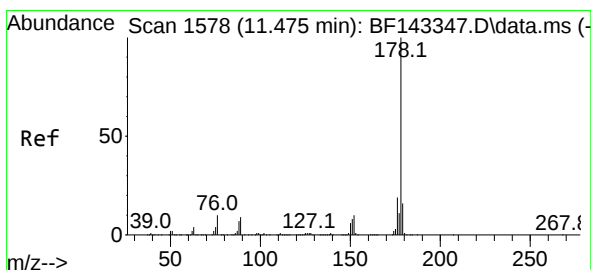
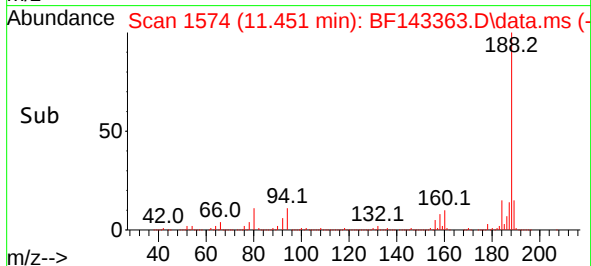
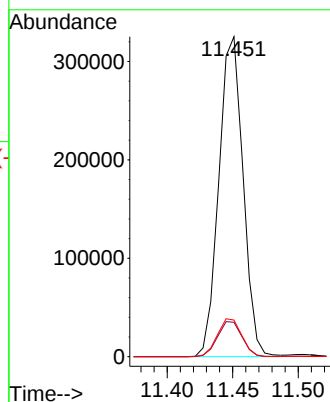
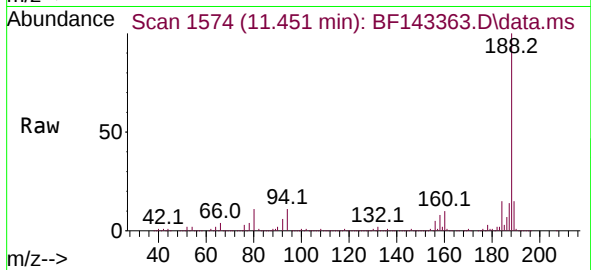
80 11.5 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#71

Phenanthrene

Concen: 24.862 ng

RT: 11.474 min Scan# 1578

Delta R.T. -0.000 min

Lab File: BF143363.D

Acq: 12 Aug 2025 20:02

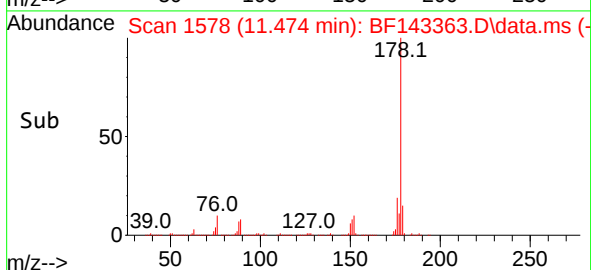
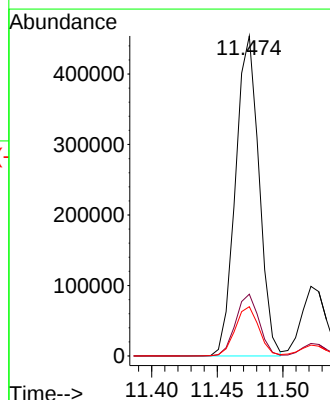
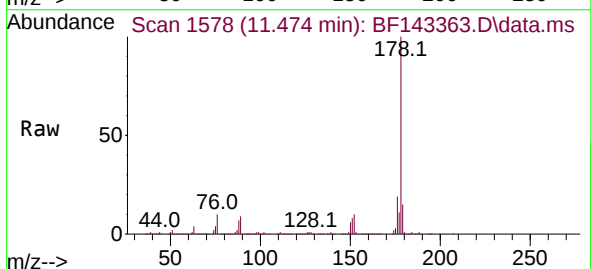
Tgt Ion:178 Resp: 566360

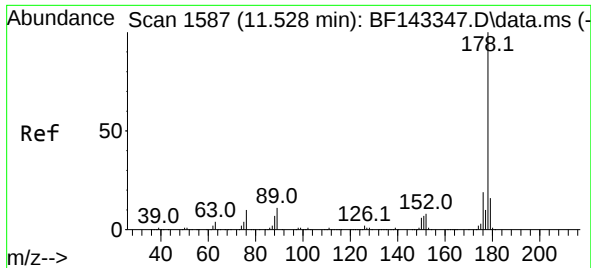
Ion Ratio Lower Upper

178 100

176 19.3 15.5 23.3

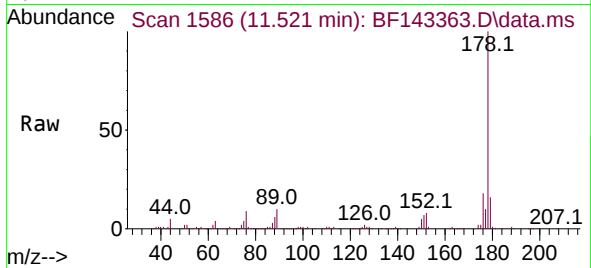
179 15.4 12.5 18.7





#72  
 Anthracene  
 Concen: 5.743 ng  
 RT: 11.521 min Scan# 11521  
 Delta R.T. -0.006 min  
 Lab File: BF143363.D  
 Acq: 12 Aug 2025 20:02

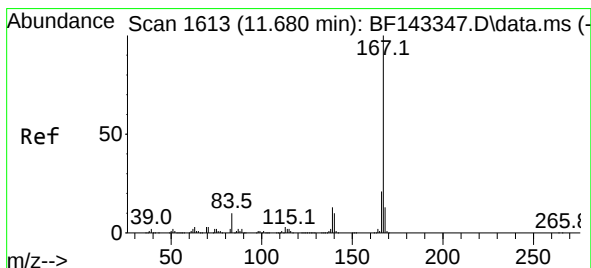
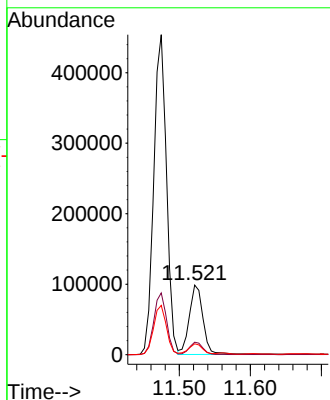
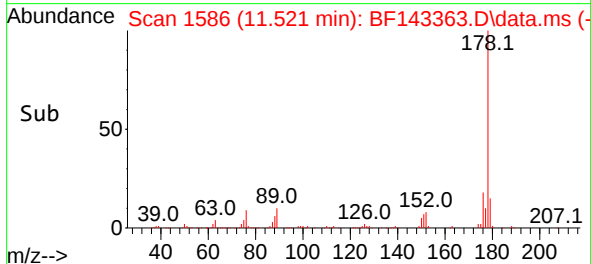
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-238



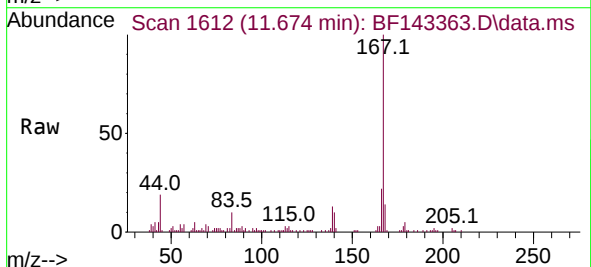
Tgt Ion:178 Resp: 132678  
 Ion Ratio Lower Upper  
 178 100  
 176 18.0 15.1 22.7  
 179 15.5 12.7 19.1

Manual Integrations  
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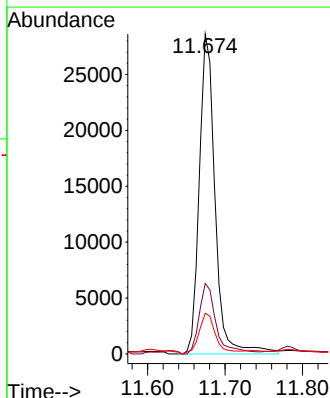
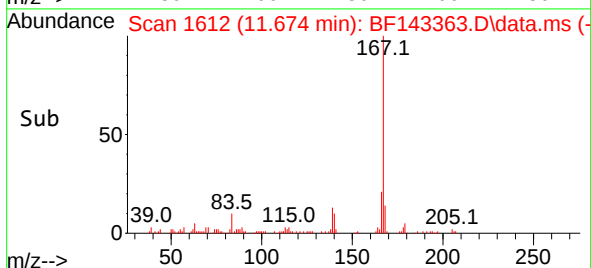
Reviewed By :Rahul Chavli 08/13/2025  
 Supervised By :Jagrut Upadhyay 08/13/2025

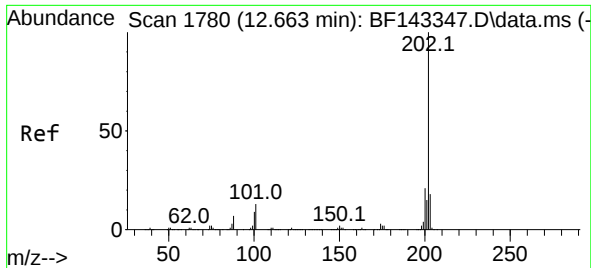


#73  
 Carbazole  
 Concen: 2.059 ng  
 RT: 11.674 min Scan# 1612  
 Delta R.T. -0.006 min  
 Lab File: BF143363.D  
 Acq: 12 Aug 2025 20:02



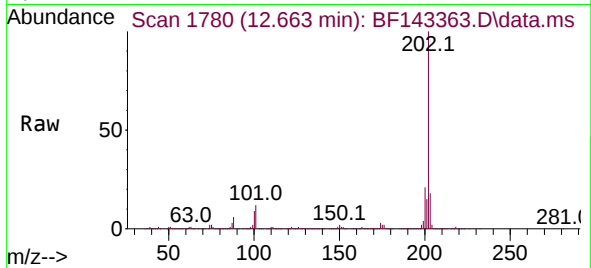
Tgt Ion:167 Resp: 40517  
 Ion Ratio Lower Upper  
 167 100  
 166 22.0 16.8 25.2  
 139 12.8 10.2 15.2





#75  
Fluoranthene  
Concen: 40.868 ng  
RT: 12.663 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

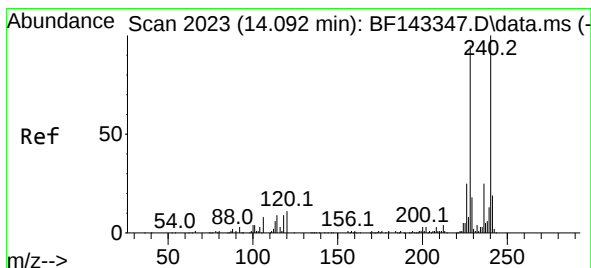
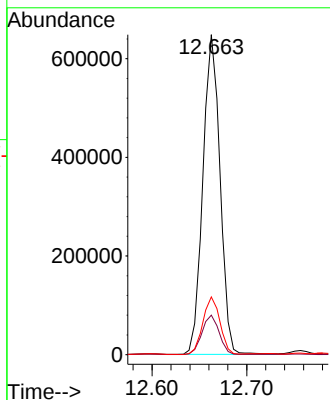
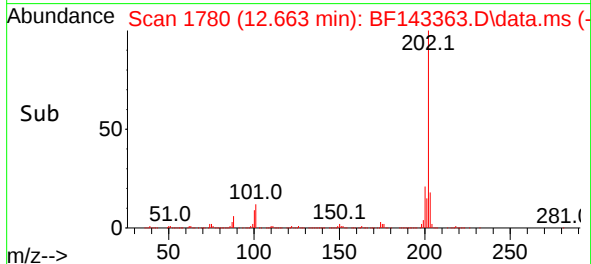
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:202 Resp: 815490  
Ion Ratio Lower Upper  
202 100  
101 12.4 0.0 33.2  
203 18.1 0.0 37.6

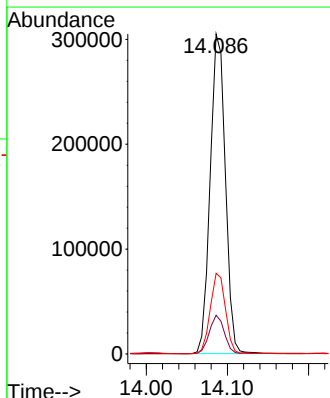
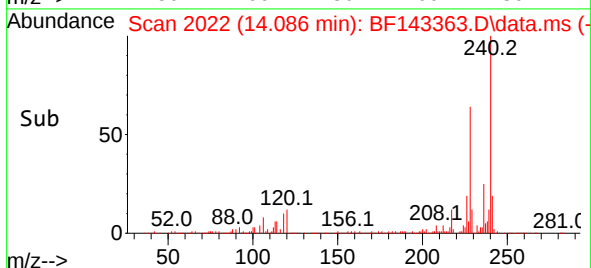
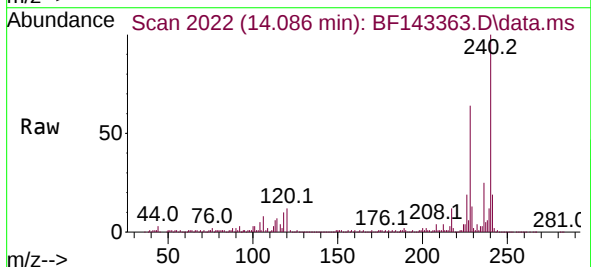
Manual Integrations  
APPROVED

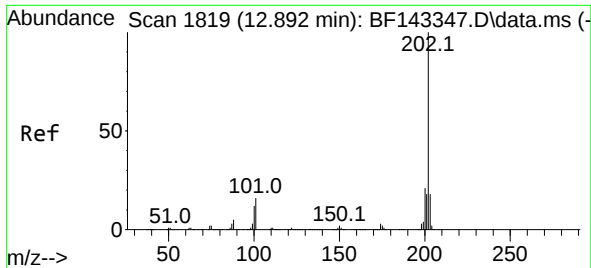
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.086 min Scan# 2022  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

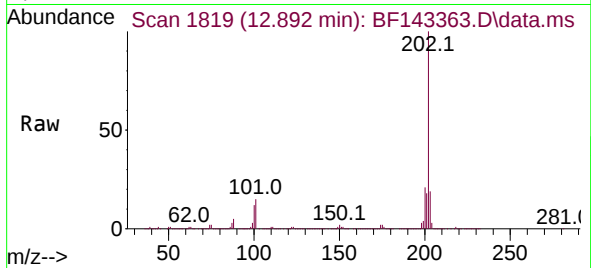
Tgt Ion:240 Resp: 395967  
Ion Ratio Lower Upper  
240 100  
120 12.1 9.0 13.6  
236 25.2 19.9 29.9





#78  
Pyrene  
Concen: 20.954 ng  
RT: 12.892 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

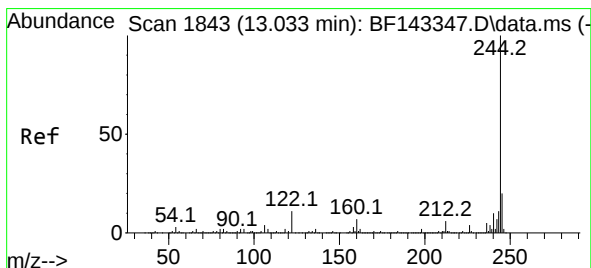
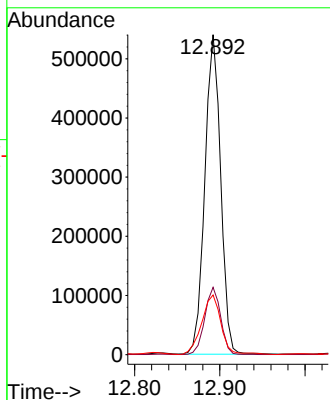
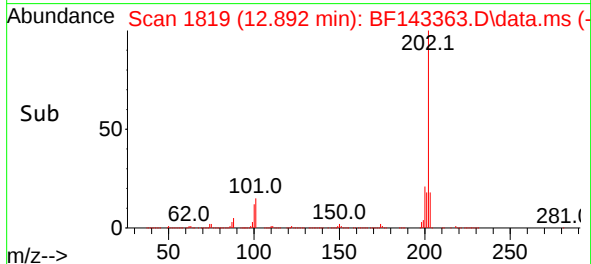
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



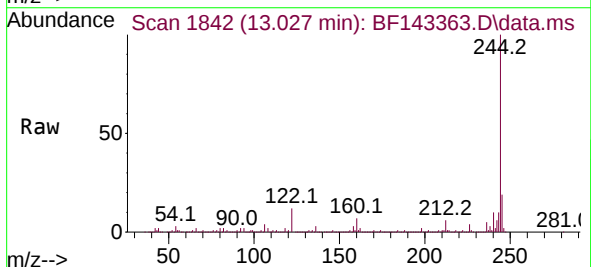
Tgt Ion:202 Resp: 69604  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.8 25.2  
203 18.6 14.2 21.4

Manual Integrations  
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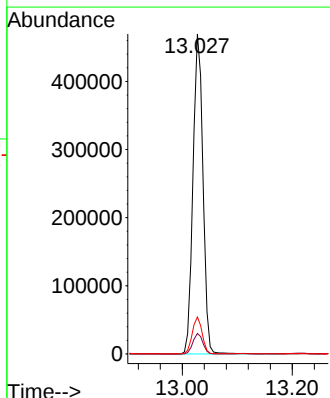
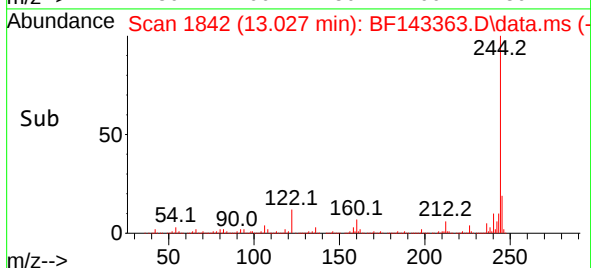
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025

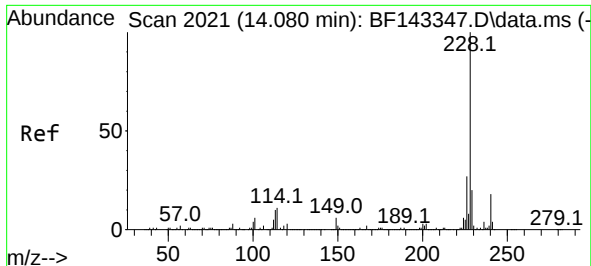


#79  
Terphenyl-d14  
Concen: 26.669 ng  
RT: 13.027 min Scan# 1842  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02



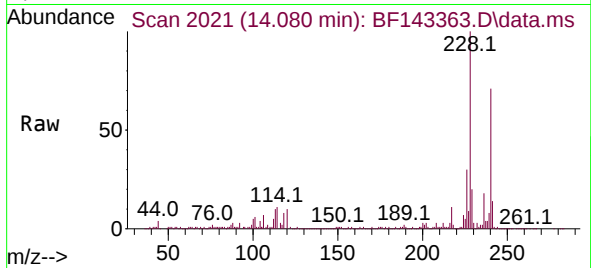
Tgt Ion:244 Resp: 591498  
Ion Ratio Lower Upper  
244 100  
212 6.4 5.1 7.7  
122 11.6 8.9 13.3





#81  
Benzo(a)anthracene  
Concen: 16.749 ng  
RT: 14.080 min Scan# 2021  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

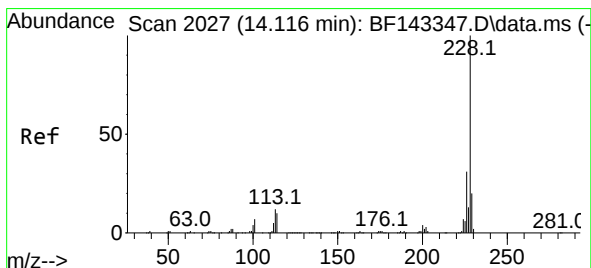
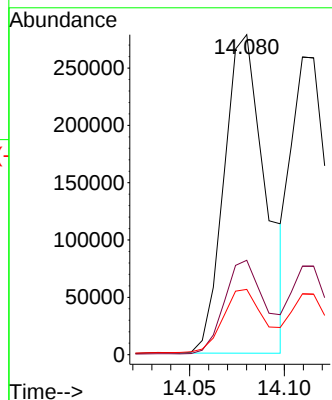
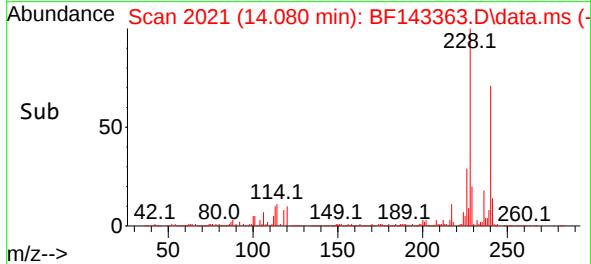
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:228 Resp: 42152  
Ion Ratio Lower Upper  
228 100  
226 29.5 22.0 33.0  
229 20.4 15.8 23.8

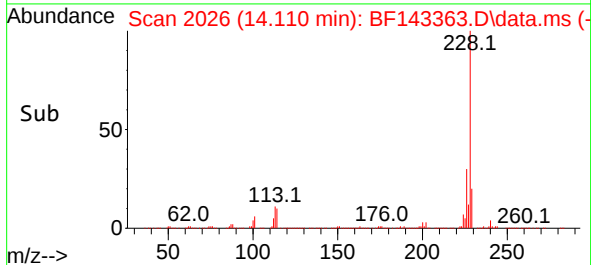
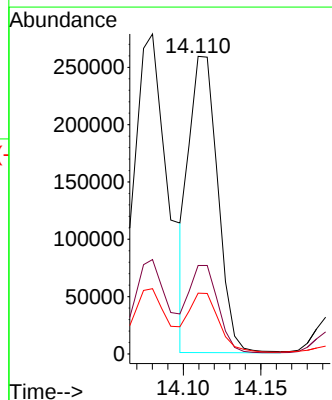
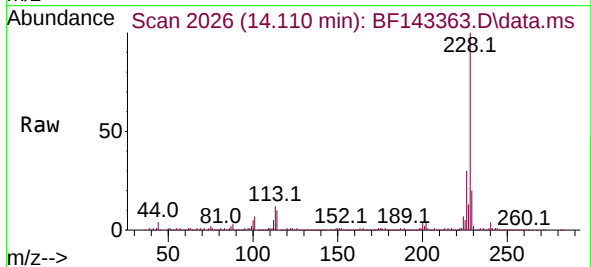
Manual Integrations  
APPROVED

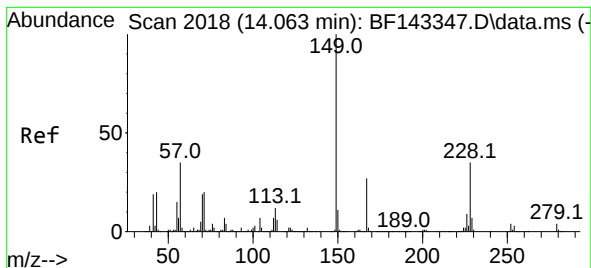
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#83  
Chrysene  
Concen: 14.230 ng  
RT: 14.110 min Scan# 2026  
Delta R.T. -0.006 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

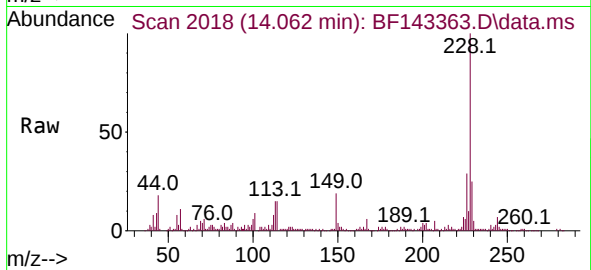
Tgt Ion:228 Resp: 333948  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.2 36.2  
229 20.4 15.8 23.6





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.377 ng  
RT: 14.062 min Scan# 2018  
Delta R.T. -0.001 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

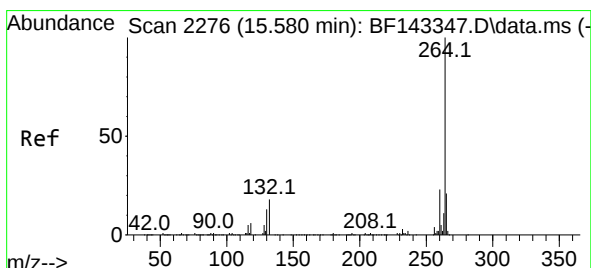
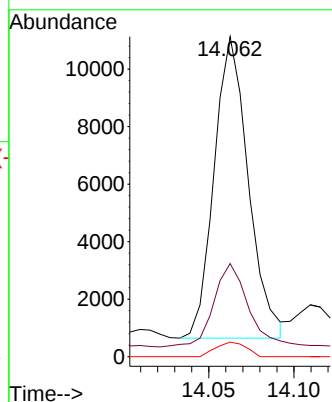
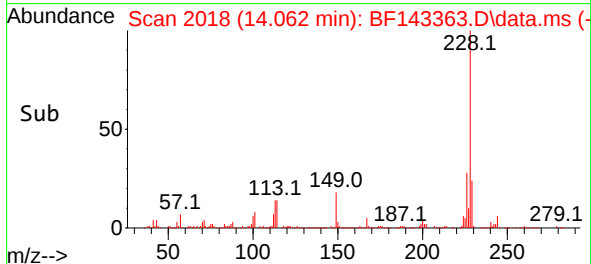
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:149 Resp: 1461  
Ion Ratio Lower Upper  
149 100  
167 29.1 21.4 32.0  
279 4.6 3.2 4.8

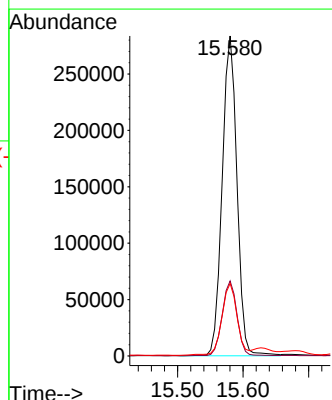
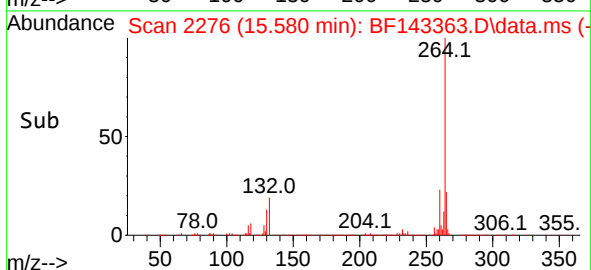
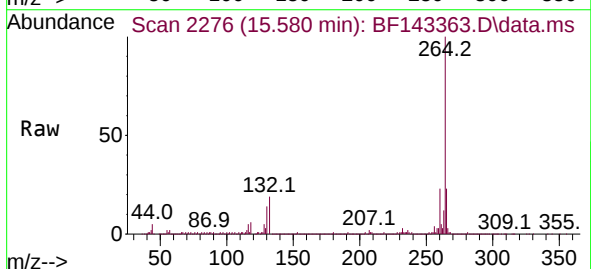
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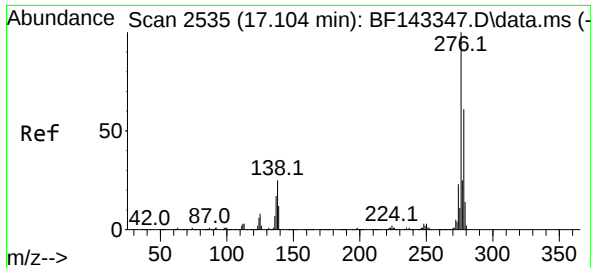
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.580 min Scan# 2276  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

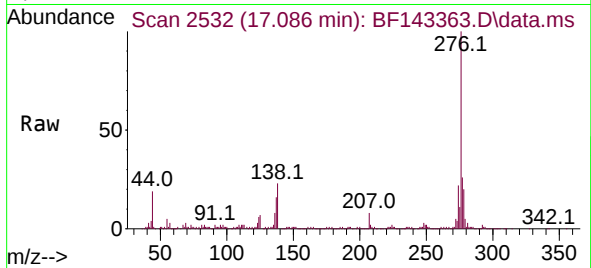
Tgt Ion:264 Resp: 441728  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.7 28.1  
265 22.6 17.2 25.8





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 5.450 ng  
RT: 17.086 min Scan# 2535  
Delta R.T. -0.018 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

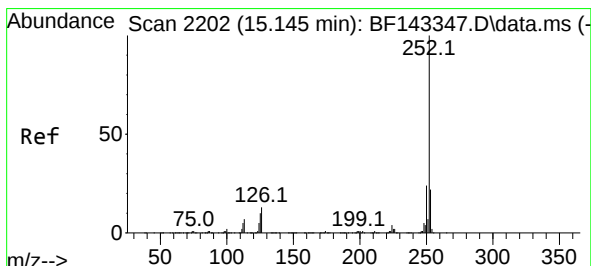
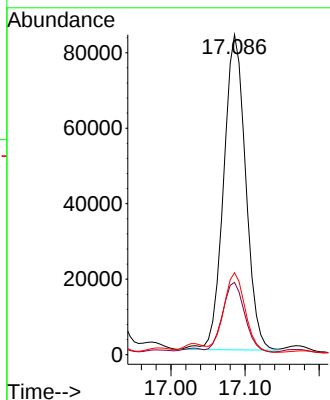
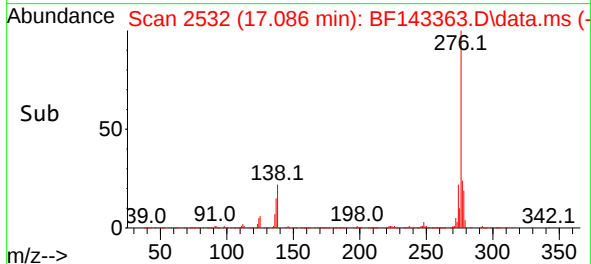
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:276 Resp: 172472  
Ion Ratio Lower Upper  
276 100  
138 22.5 21.1 31.7  
277 25.1 20.2 30.2

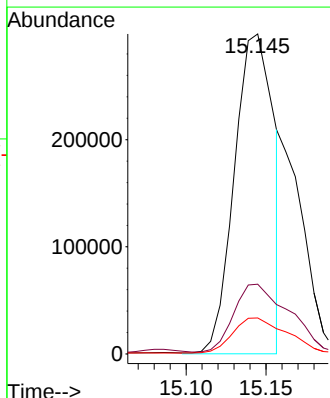
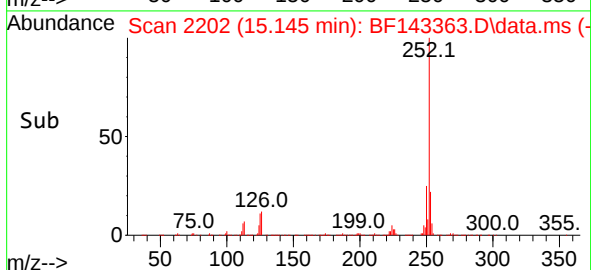
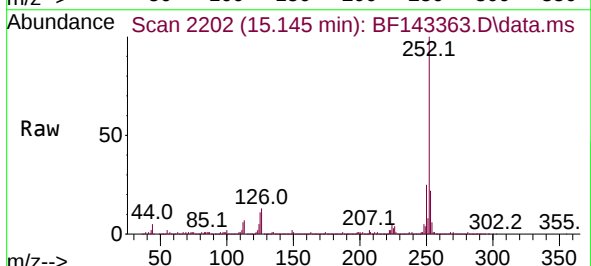
Manual Integrations  
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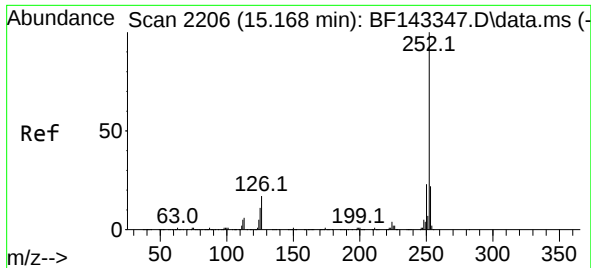
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#88  
Benzo(b)fluoranthene  
Concen: 21.214 ng m  
RT: 15.145 min Scan# 2202  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

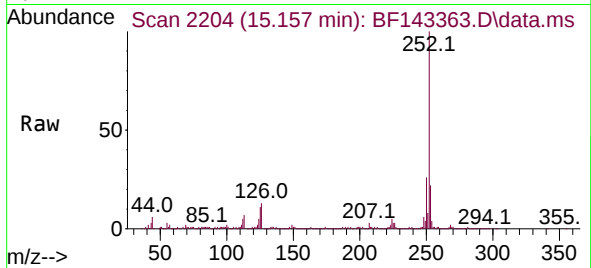
Tgt Ion:252 Resp: 512548  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.8 26.8  
125 11.2 7.8 11.6





#89  
Benzo(k)fluoranthene  
Concen: 8.344 ng m  
RT: 15.157 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

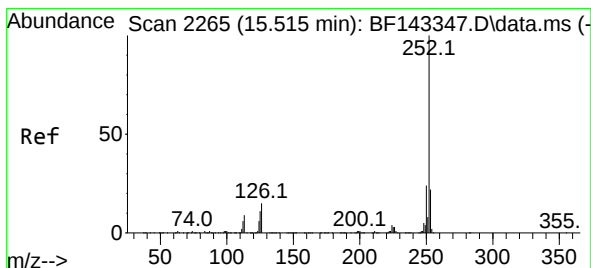
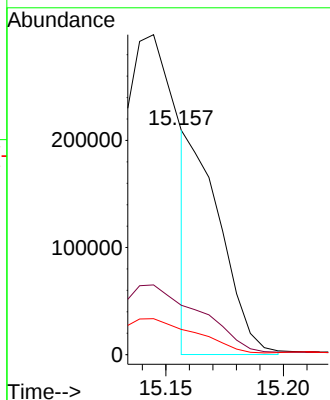
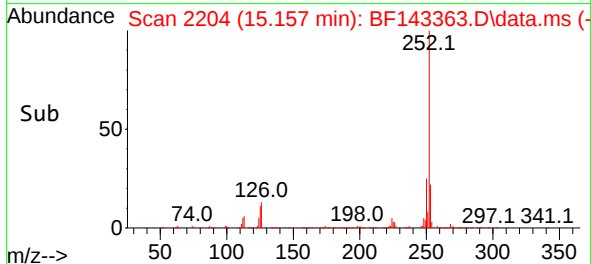
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-238



Tgt Ion:252 Resp: 19589  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.6 26.4  
125 11.3 8.4 12.6

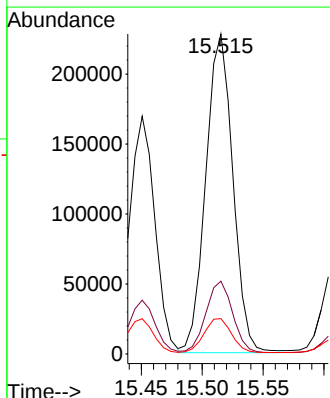
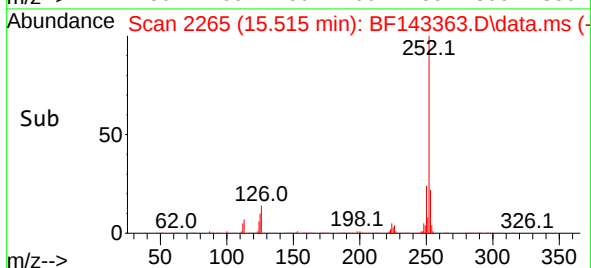
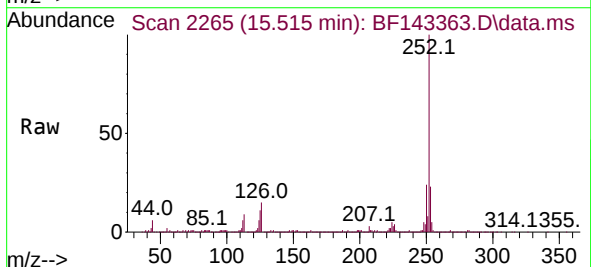
Manual Integrations  
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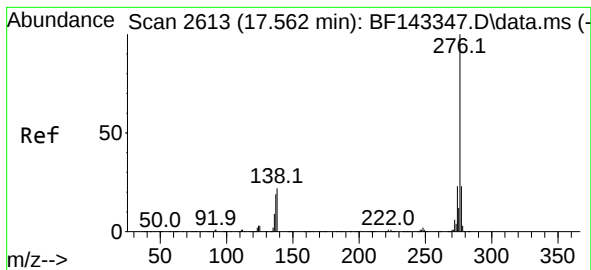
Reviewed By :Rahul Chavli 08/13/2025  
Supervised By :Jagrut Upadhyay 08/13/2025



#90  
Benzo(a)pyrene  
Concen: 15.479 ng  
RT: 15.515 min Scan# 2265  
Delta R.T. -0.000 min  
Lab File: BF143363.D  
Acq: 12 Aug 2025 20:02

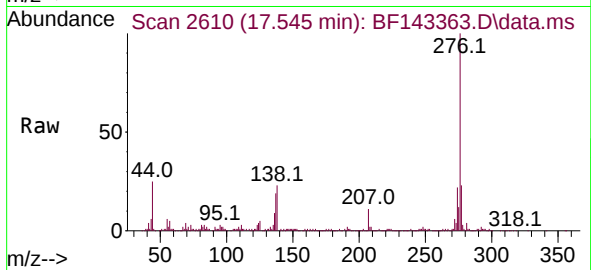
Tgt Ion:252 Resp: 352233  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.6 26.4  
125 11.1 9.1 13.7





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.829 ng  
 RT: 17.545 min Scan# 20  
 Delta R.T. -0.018 min  
 Lab File: BF143363.D  
 Acq: 12 Aug 2025 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-238



Tgt Ion: 276 Resp: 148469  
 Ion Ratio Lower Upper  
 276 100  
 277 23.3 18.7 28.1  
 138 22.7 17.8 26.8

Manual Integrations  
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Reviewed By :Rahul Chavli 08/13/2025  
 Supervised By :Jagrut Upadhyay 08/13/2025

