

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012721\  
 Data File : BN013514.D  
 Acq On : 27 Jan 2021 20:08  
 Operator : CG/JU  
 Sample : M1099-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 F1C04

Manual Integrations  
 APPROVED

mohammad  
 1/28/2021 11:44:29 AM

Quant Time: Jan 28 06:46:04 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN012721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 27 11:55:49 2021  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 4161     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 16013    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.20 | 164  | 9496     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.95 | 188  | 19654m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.15 | 240  | 18008    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.32 | 264  | 17993    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.92 | 152  | 9209     | 0.38   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.99 | 212  | 18701    | 0.36   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.38 | 128  | 2053     | 0.044  | ng/ul# | 88       |
| 5) 2-Methylnaphthalene      | 12.00 | 142  | 822      | 0.028  | ng/ul  | 96       |
| 7) Acenaphthylene           | 13.92 | 152  | 2771     | 0.071  | ng/ul# | 94       |
| 8) Acenaphthene             | 14.26 | 153  | 1069     | 0.031  | ng/ul  | 98       |
| 9) Fluorene                 | 15.25 | 166  | 1296     | 0.034  | ng/ul# | 94       |
| 11) Pentachlorophenol       | 16.60 | 266  | 74       | 0.026  | ng/ul  | 96       |
| 12) Phenanthrene            | 16.99 | 178  | 6213     | 0.097  | ng/ul  | 97       |
| 13) Anthracene              | 17.08 | 178  | 1317     | 0.025  | ng/ul# | 81       |
| 15) Fluoranthene            | 19.01 | 202  | 6330     | 0.090  | ng/ul  | 95       |
| 17) Pyrene                  | 19.38 | 202  | 14477    | 0.196  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.14 | 228  | 2094     | 0.035  | ng/ul# | 59       |
| 19) Chrysene                | 21.19 | 228  | 2588     | 0.035  | ng/ul# | 90       |
| 21) Benzo(b)fluoranthene    | 22.68 | 252  | 4926m    | 0.065  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.71 | 252  | 1635m    | 0.020  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.23 | 252  | 2755     | 0.043  | ng/ul# | 50       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.47 | 276  | 2790     | 0.033  | ng/ul# | 100      |
| 26) Benzo(a,h,i)perylene    | 26.13 | 276  | 3736     | 0.050  | ng/ul# | 91       |

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

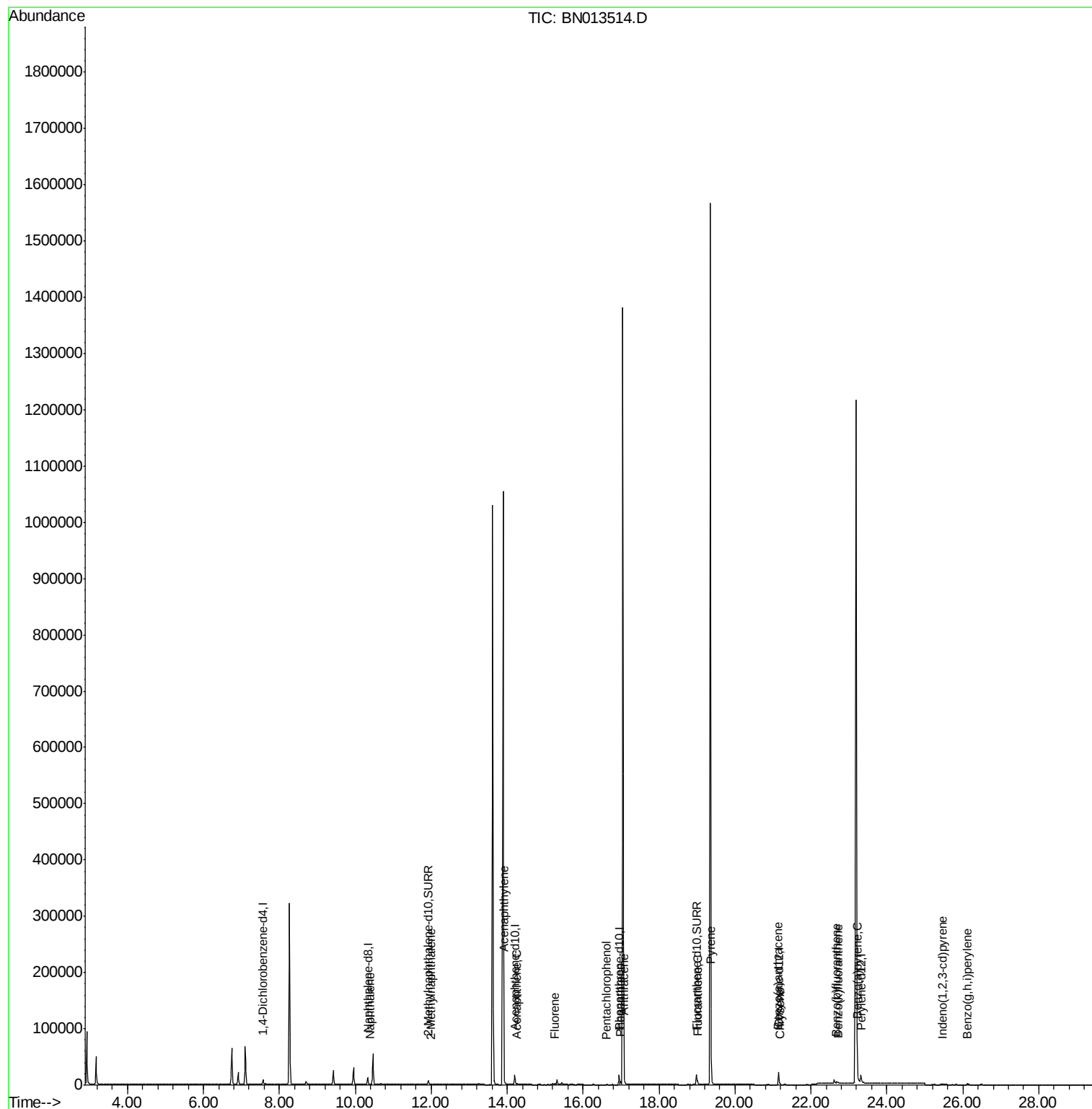
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012721\  
Data File : BN013514.D  
Acq On : 27 Jan 2021 20:08  
Operator : CG/JU  
Sample : M1099-04  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

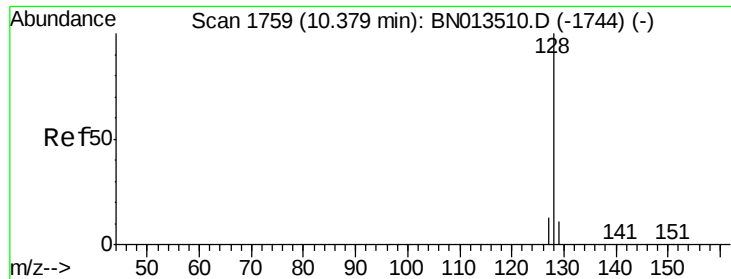
Instrument :  
BNA\_N  
ClientSampleId :  
F1C04

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1/28/2021 11:44:29 AM

Quant Time: Jan 28 06:46:04 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN012721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 27 11:55:49 2021  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.044 ng/ul

RT: 10.38 min Scan# 1759

Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

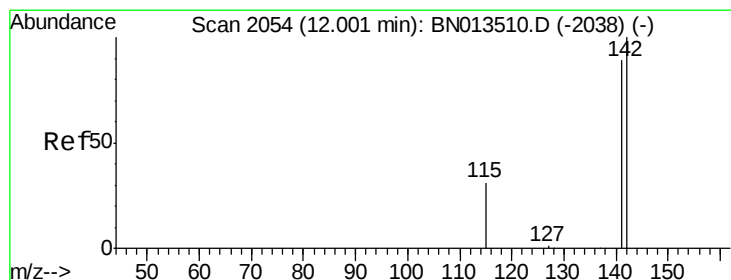
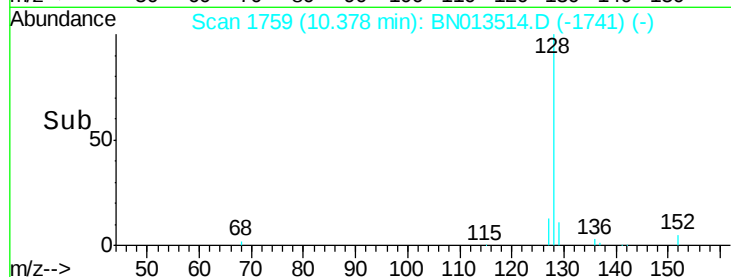
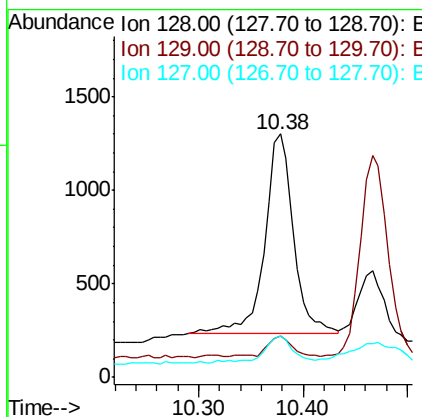
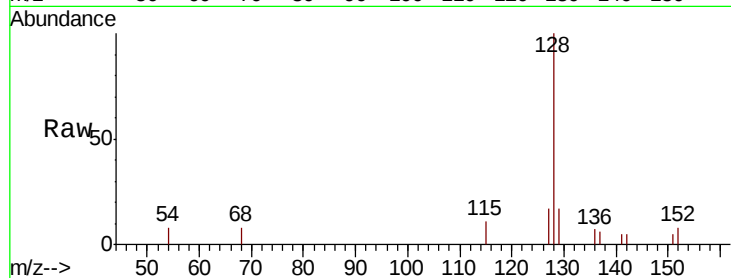
ClientSampleId :

F1C04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 2053  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 17.1  | 9.0   | 13.6# |
| 127      | 17.0  | 10.6  | 15.8# |

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#5

2-Methylnaphthalene

Concen: 0.028 ng/ul

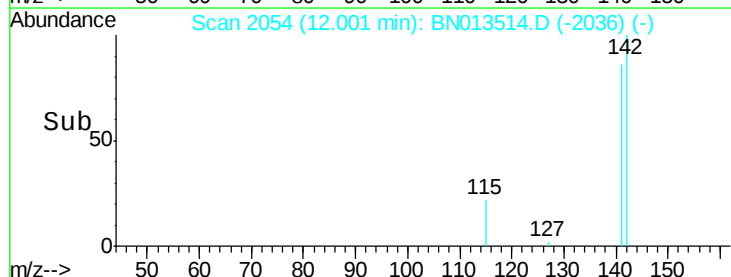
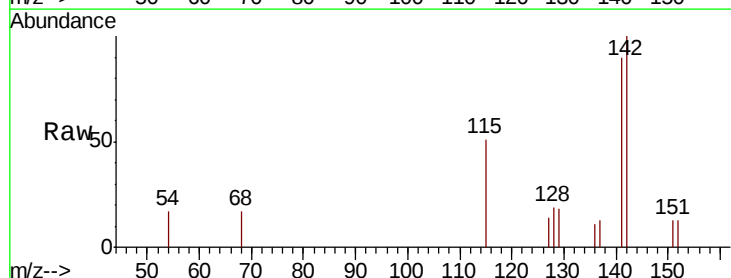
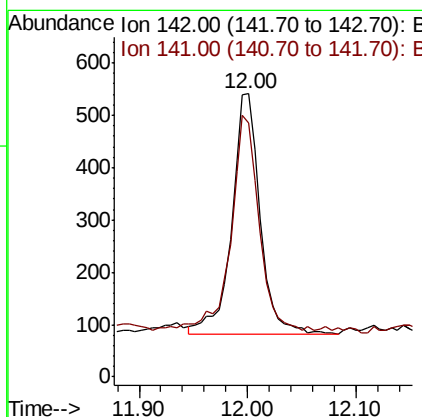
RT: 12.00 min Scan# 2054

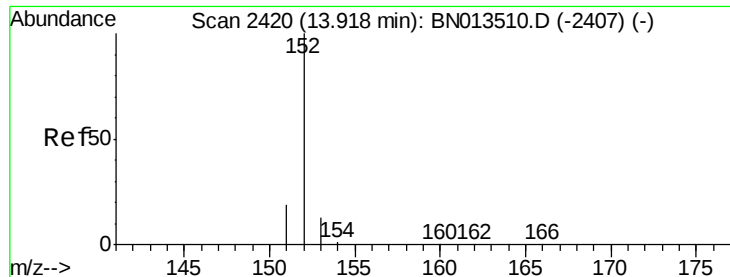
Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 822   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 91.8  | 70.6  | 106.0 |





#7

Acenaphthylene

Concen: 0.071 ng/ul

RT: 13.92 min Scan# 2420

Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

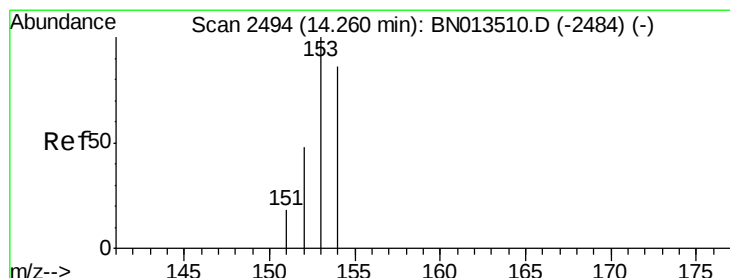
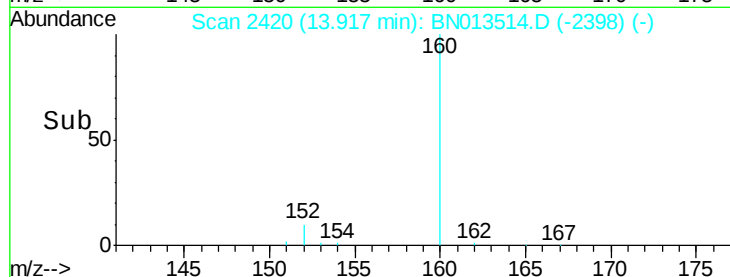
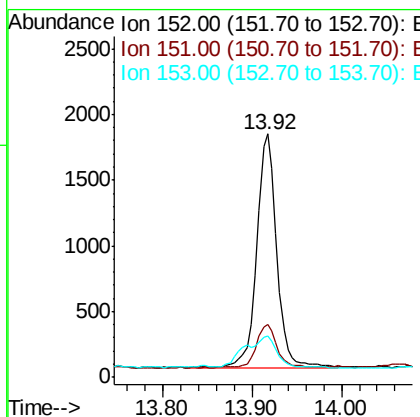
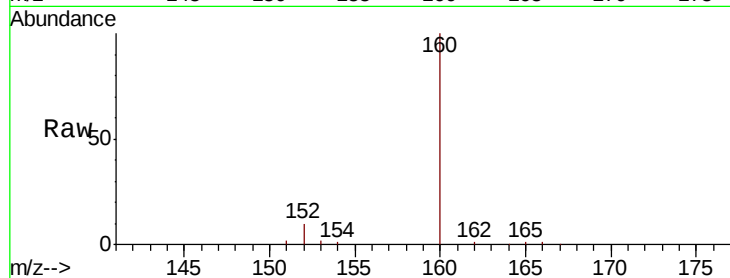
ClientSampled :

F1C04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2771  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.8  | 16.1  | 24.1  |
| 153       | 17.1  | 10.7  | 16.1# |

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#8

Acenaphthene

Concen: 0.031 ng/ul

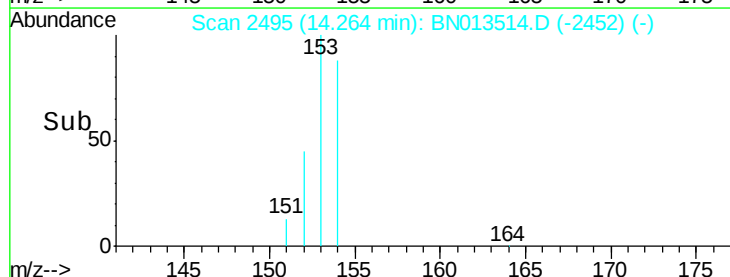
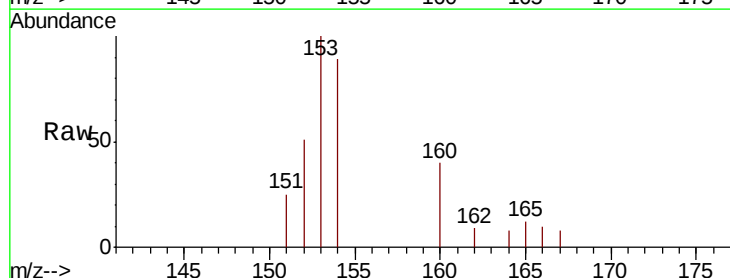
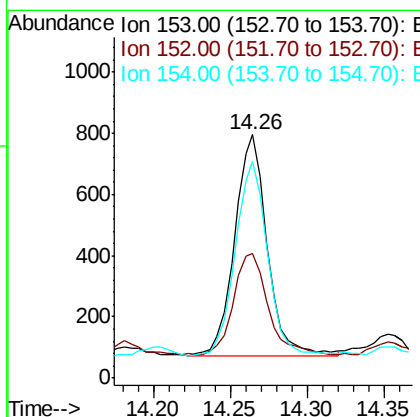
RT: 14.26 min Scan# 2495

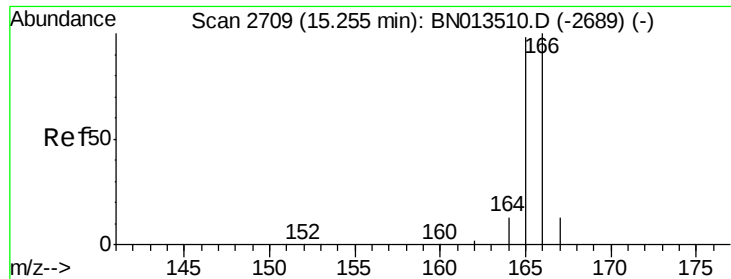
Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1069  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.3  | 39.5  | 59.3  |
| 154       | 89.1  | 70.6  | 105.8 |





#9

Fluorene

Concen: 0.034 ng/ul

RT: 15.25 min Scan# 2709

Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

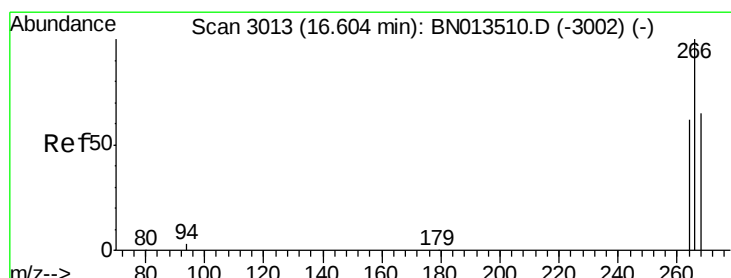
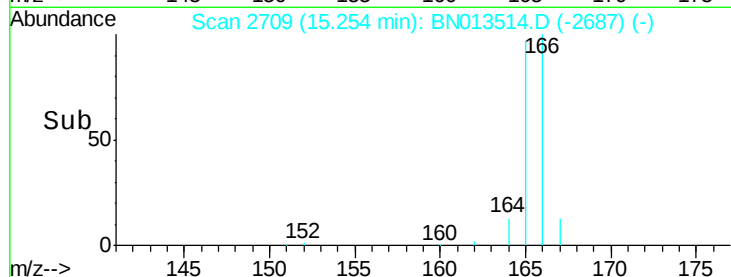
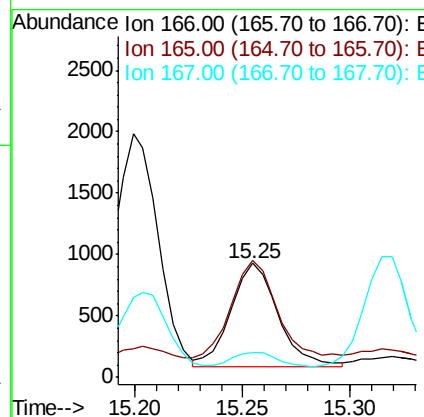
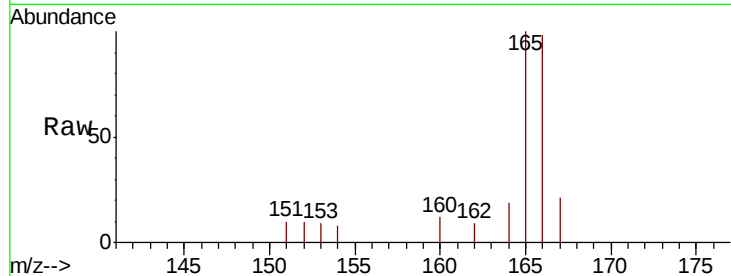
ClientSampled :

F1C04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 1296  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.3 | 78.7  | 118.1 |
| 167       | 21.9  | 11.3  | 16.9# |

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#11

Pentachlorophenol

Concen: 0.026 ng/ul

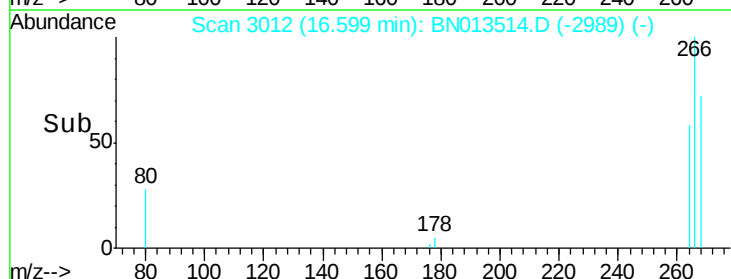
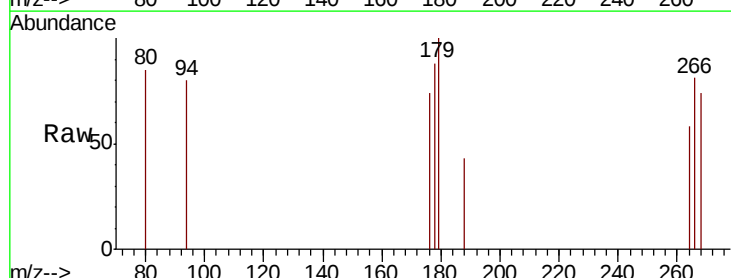
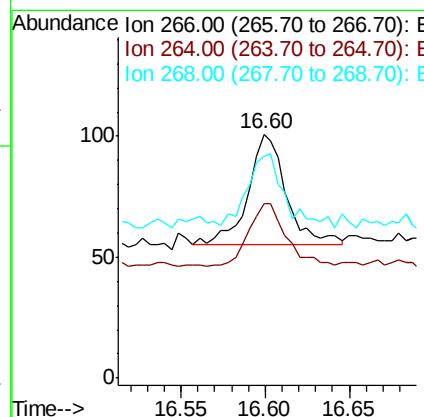
RT: 16.60 min Scan# 3012

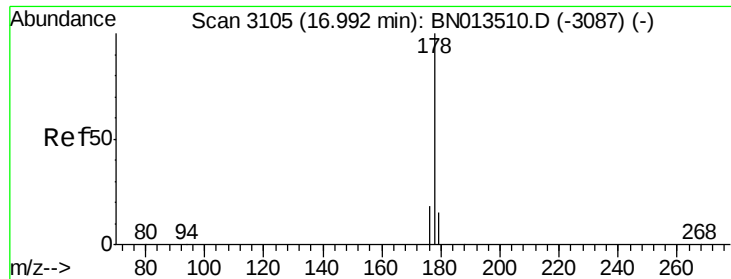
Delta R.T. -0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 74   |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 56.8  | 49.8  | 74.6 |
| 268       | 64.9  | 52.2  | 78.4 |





#12

Phenanthrene

Concen: 0.097 ng/ul

RT: 16.99 min Scan# 3104

Delta R.T. -0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

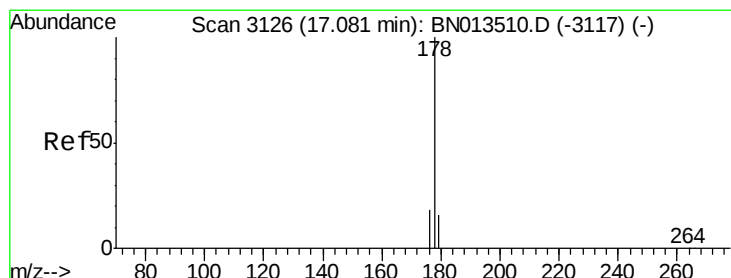
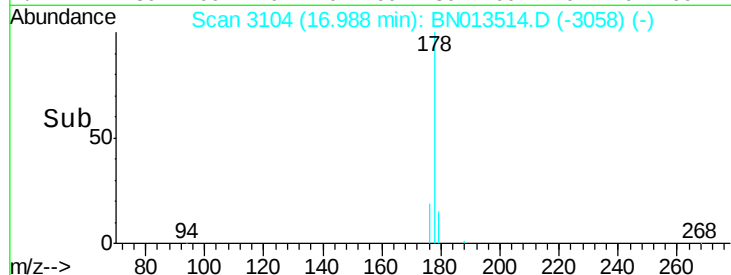
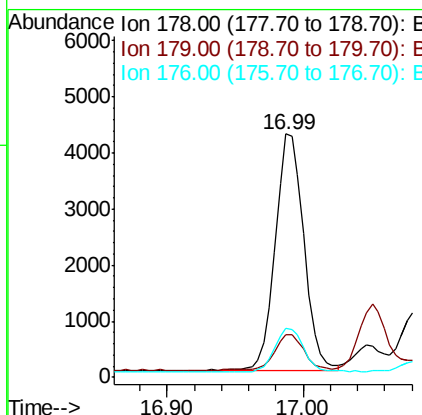
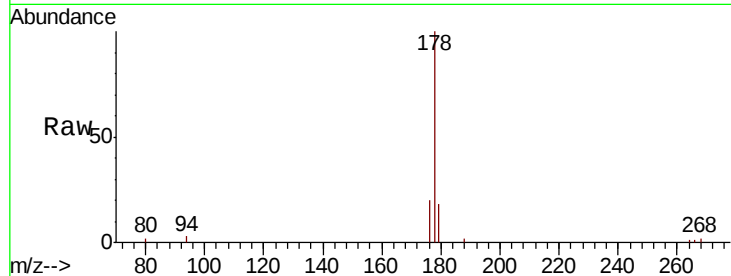
ClientSampleId :

F1C04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.6  | 12.5  | 18.7  |
| 176     | 20.3  | 15.6  | 23.4  |

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#13

Anthracene

Concen: 0.025 ng/ul

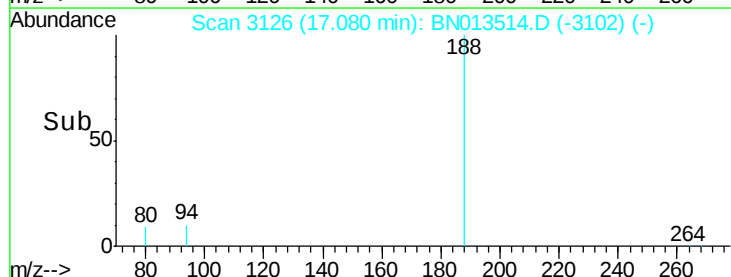
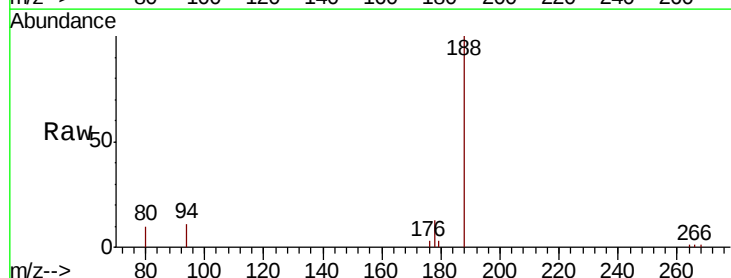
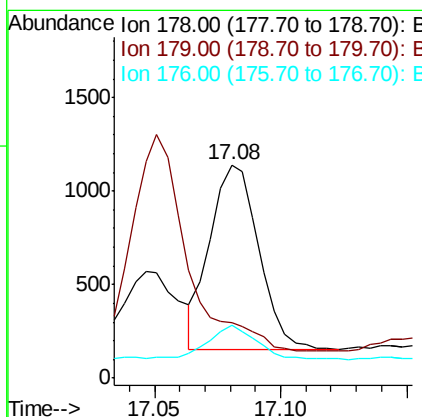
RT: 17.08 min Scan# 3126

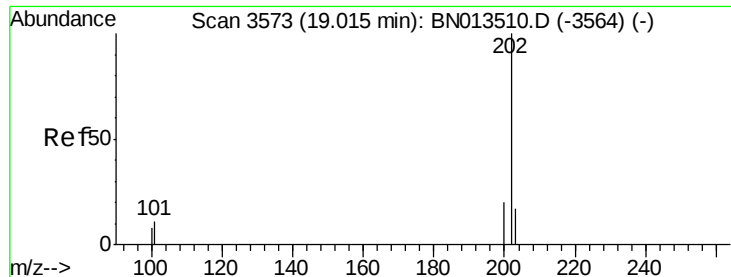
Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 26.2  | 12.6  | 19.0# |
| 176     | 25.0  | 15.0  | 22.4# |





#15

Fluoranthene

Concen: 0.090 ng/ul

RT: 19.01 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

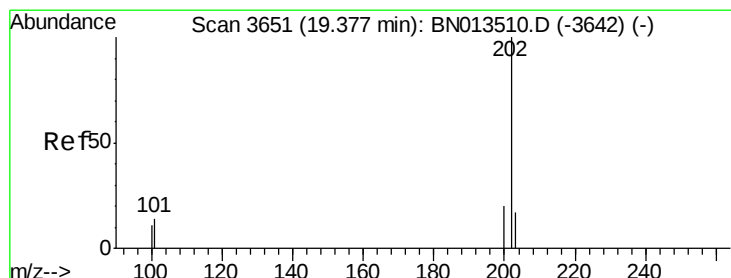
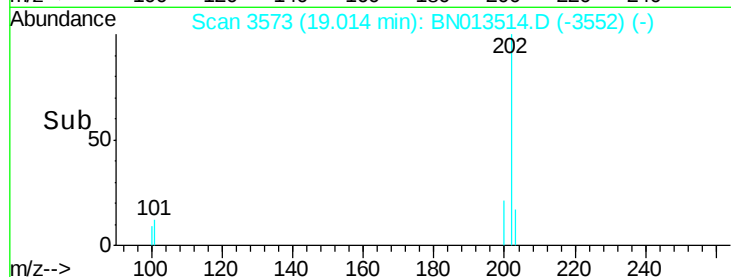
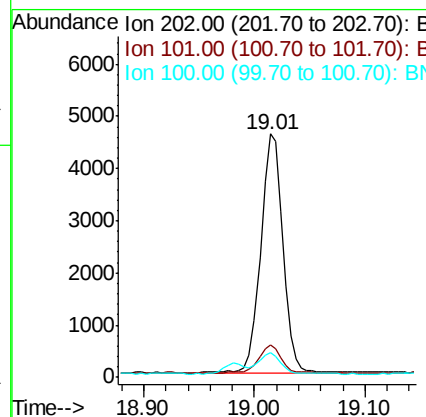
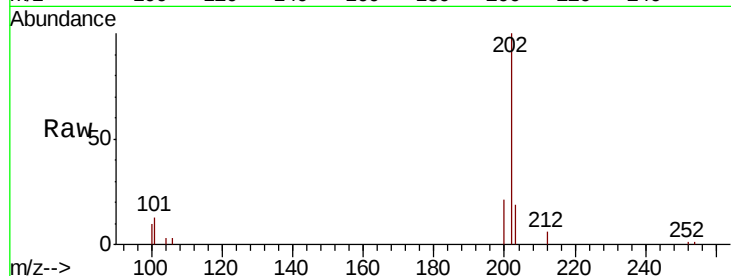
ClientSampleId :

F1C04

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 6330 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 13.5  | 0.0   | 31.6 |
| 100       | 10.2  | 0.0   | 28.5 |

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#17

Pyrene

Concen: 0.196 ng/ul

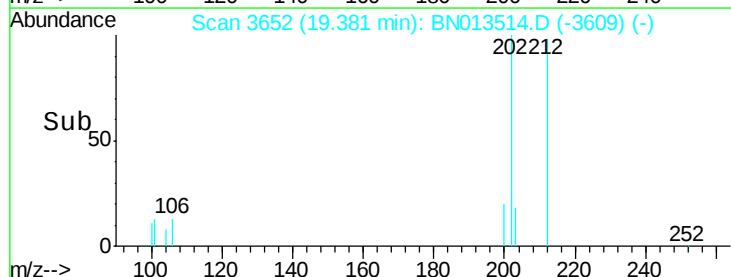
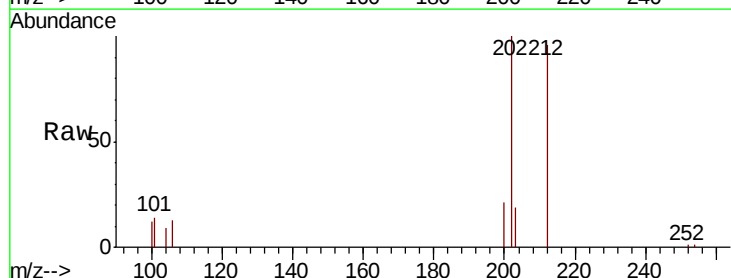
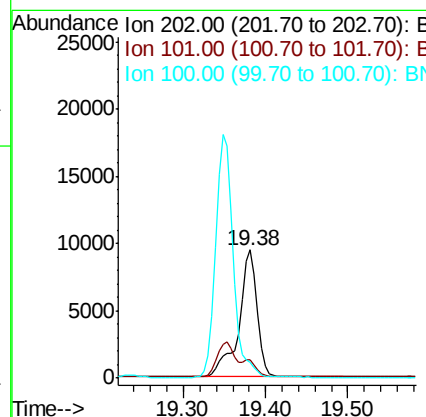
RT: 19.38 min Scan# 3652

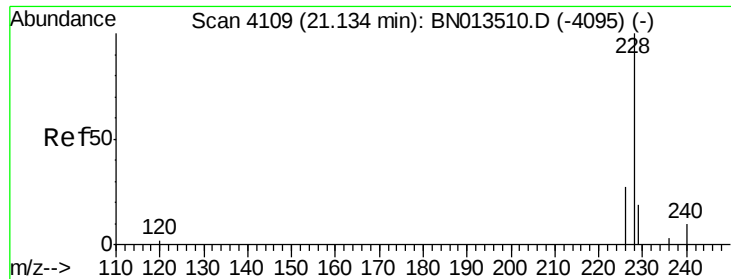
Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 14477 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.1  | 11.2  | 16.8  |
| 100       | 11.9  | 9.0   | 13.4  |





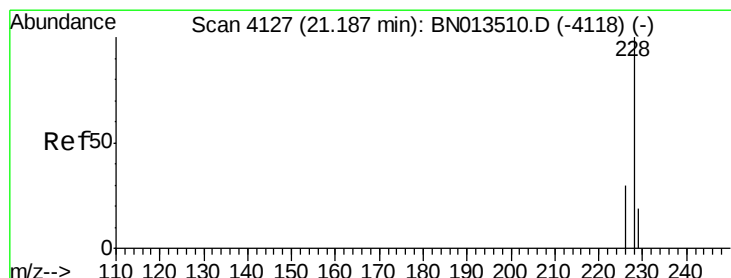
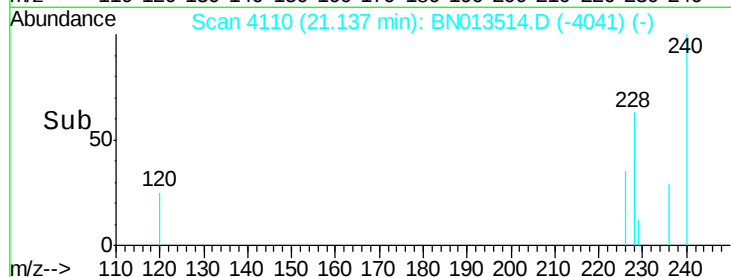
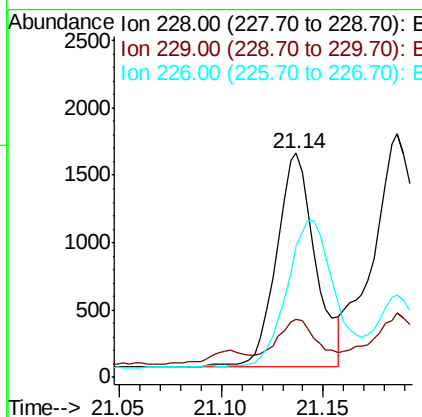
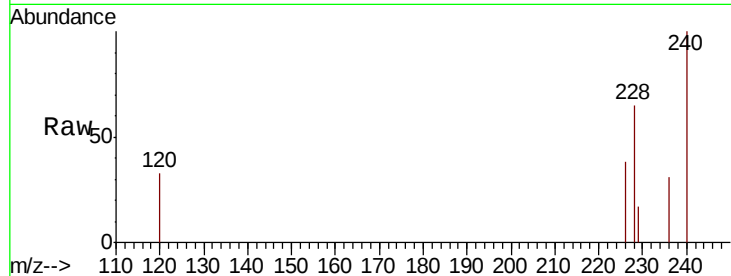
#18  
Benzo(a)anthracene  
Concen: 0.035 ng/ul  
RT: 21.14 min Scan# 4110  
Delta R.T. 0.00 min  
Lab File: BN013514.D  
Acq: 27 Jan 2021 20:08

Instrument :  
BNA\_N  
ClientSampleId :  
F1C04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 25.9  | 15.6  | 23.4# |
| 226     | 58.3  | 21.9  | 32.9# |

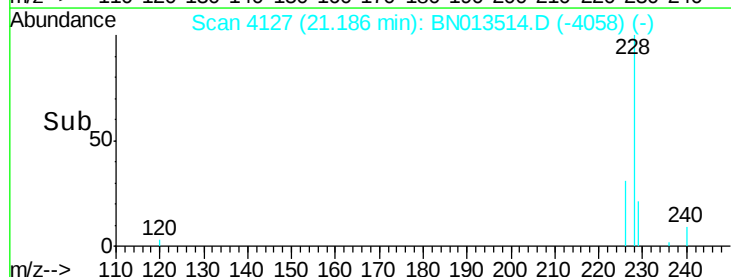
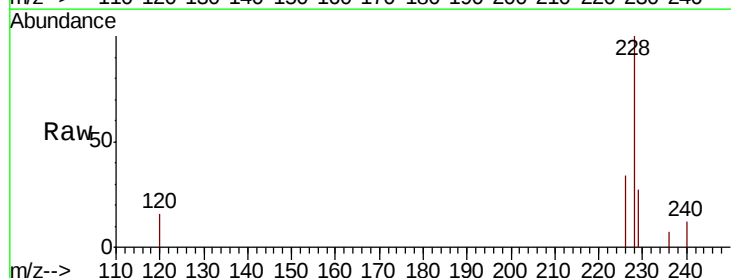
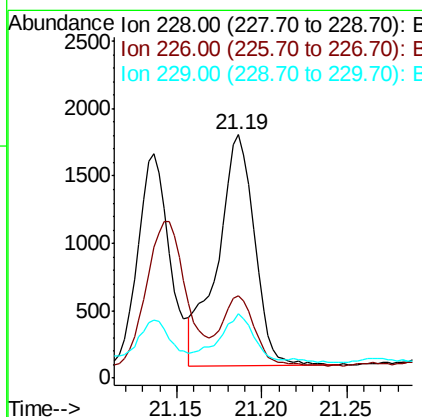
Manual Integrations  
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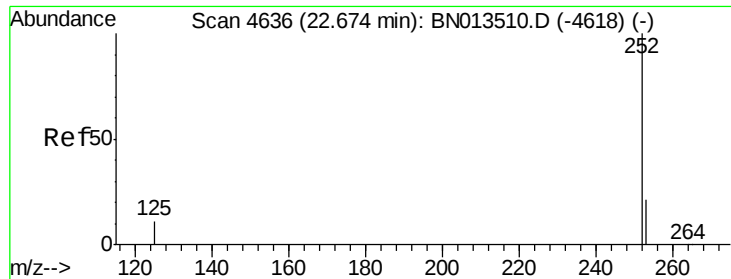
mohammad  
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#19  
Chrysene  
Concen: 0.035 ng/ul  
RT: 21.19 min Scan# 4127  
Delta R.T. 0.00 min  
Lab File: BN013514.D  
Acq: 27 Jan 2021 20:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.9  | 24.0  | 36.0  |
| 229     | 26.5  | 15.8  | 23.8# |





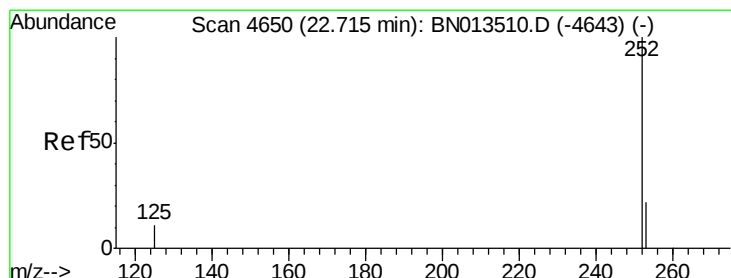
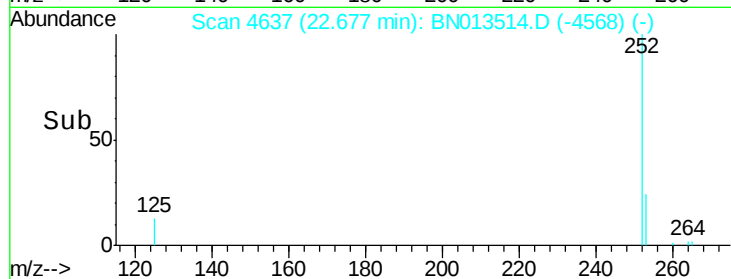
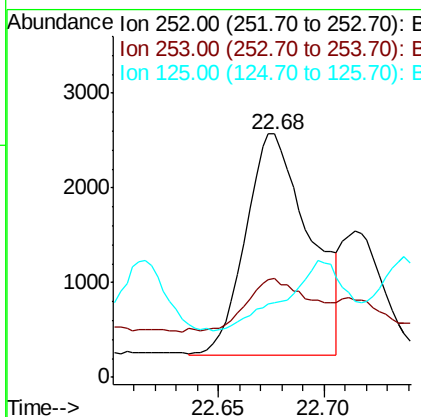
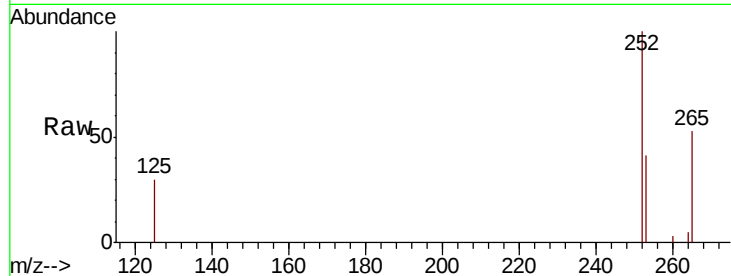
#21  
Benzo(b)fluoranthene  
Concen: 0.065 ng/ul m  
RT: 22.68 min Scan# 4637  
Delta R.T. 0.00 min  
Lab File: BN013514.D  
Acq: 27 Jan 2021 20:08

Instrument :  
BNA\_N  
ClientSampleId :  
F1C04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 40.6  | 0.0   | 47.4  |
| 125     | 30.4  | 0.0   | 26.8# |

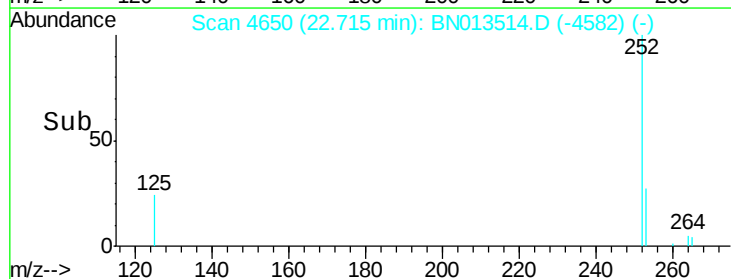
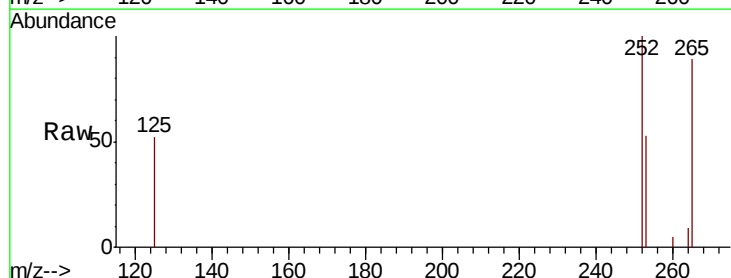
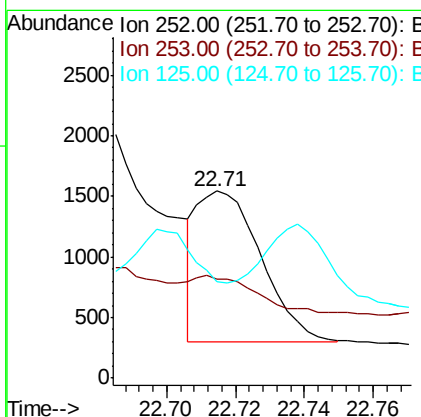
Manual Integrations  
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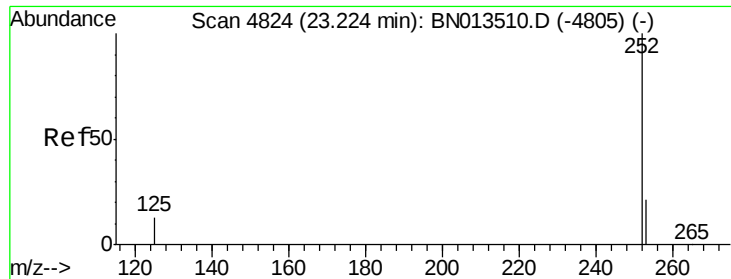
mohammad  
1/28/2021 11:44:29 AM



#22  
Benzo(k)fluoranthene  
Concen: 0.020 ng/ul m  
RT: 22.71 min Scan# 4650  
Delta R.T. 0.00 min  
Lab File: BN013514.D  
Acq: 27 Jan 2021 20:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 53.3  | 19.2  | 28.8# |
| 125     | 52.0  | 11.4  | 17.2# |





#23

Benzo(a)pyrene

Concen: 0.043 ng/ul

RT: 23.23 min Scan# 4826

Delta R.T. 0.00 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

Instrument :

BNA\_N

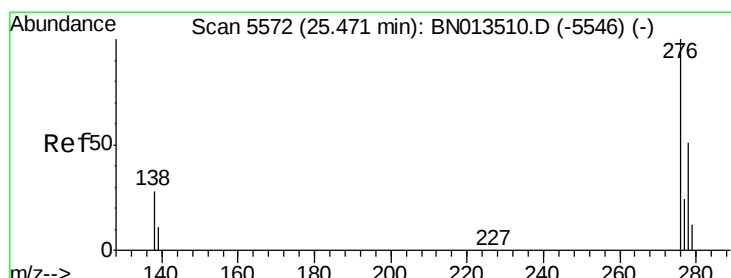
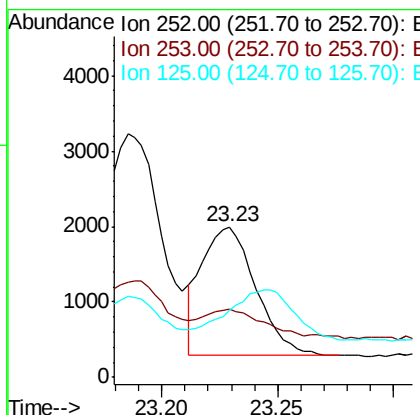
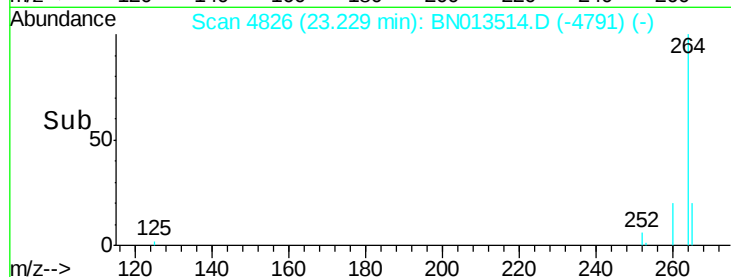
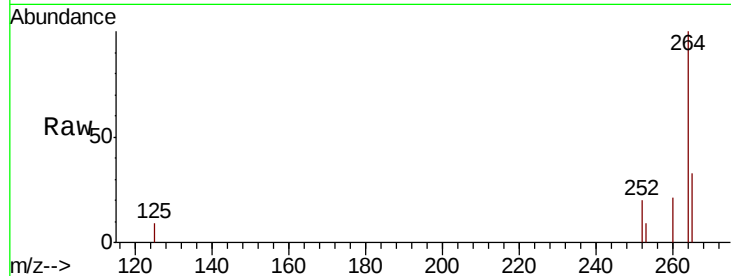
ClientSampleId :

F1C04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 2755  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 45.0  | 20.1  | 30.1# |
| 125       | 44.3  | 13.1  | 19.7# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.033 ng/ul

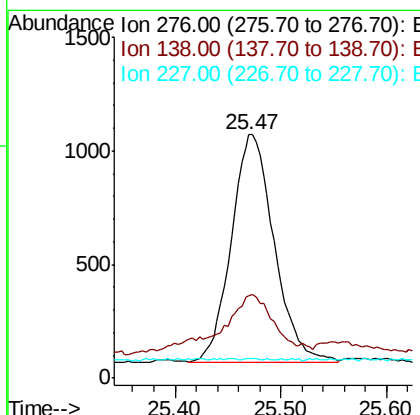
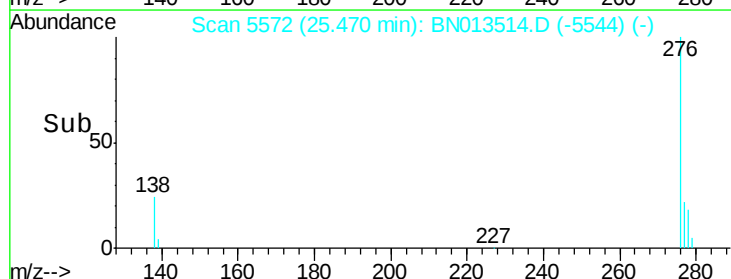
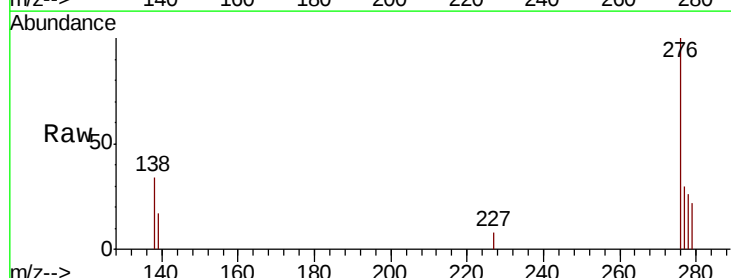
RT: 25.47 min Scan# 5572

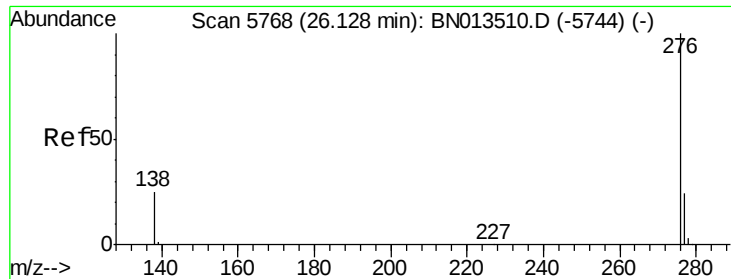
Delta R.T. -0.01 min

Lab File: BN013514.D

Acq: 27 Jan 2021 20:08

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2790 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 29.0  | 0.0   | 0.0# |
| 227       | 0.2   | 0.0   | 0.0# |





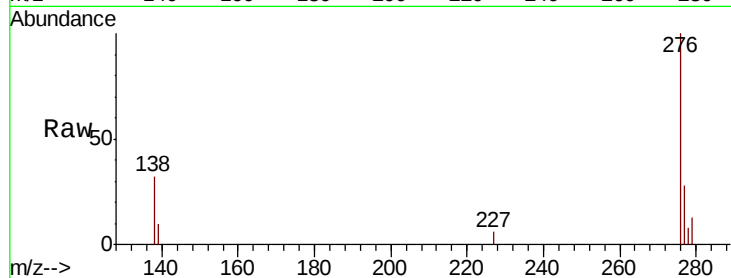
#26  
Benzo(a,h,i)perylene  
Concen: 0.050 ng/ul  
RT: 26.13 min Scan# 5768  
Delta R.T. -0.00 min  
Lab File: BN013514.D  
Acq: 27 Jan 2021 20:08

Instrument :  
BNA\_N  
ClientSampleId :  
F1C04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.8  | 21.0  | 31.4# |
| 277     | 28.2  | 19.5  | 29.3  |

Manual Integrations  
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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

