

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN012995.D  
 Acq On : 09 Dec 2020 03:29  
 Operator : CG/JU  
 Sample : L4942-04  
 Misc :  
 ALS Vial : 65 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B96

Manual Integrations  
 APPROVED

mohammad  
 12/9/2020 12:25:43 PM

Quant Time: Dec 09 07:41:12 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 09 07:33:34 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 1030     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.14 | 136  | 4226     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.05 | 164  | 2355     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.81 | 188  | 4825     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.03 | 240  | 3721     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.12 | 264  | 3091     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.75 | 152  | 1043     | 0.17   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.85 | 212  | 2391     | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.19 | 128  | 772      | 0.063  | ng/ul# | 89       |
| 5) 2-Methylnaphthalene      | 11.82 | 142  | 428      | 0.053  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.76 | 152  | 1514     | 0.136  | ng/ul  | 96       |
| 8) Acenaphthene             | 14.11 | 153  | 847      | 0.093  | ng/ul  | 94       |
| 9) Fluorene                 | 15.11 | 166  | 1319     | 0.126  | ng/ul  | 99       |
| 12) Phenanthrene            | 16.85 | 178  | 45569    | 2.817  | ng/ul  | 96       |
| 13) Anthracene              | 16.94 | 178  | 8161     | 0.593  | ng/ul  | 96       |
| 15) Fluoranthene            | 18.88 | 202  | 102175   | 5.315  | ng/ul  | 98       |
| 17) Pyrene                  | 19.25 | 202  | 88442    | 5.032  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.01 | 228  | 44384    | 2.883  | ng/ul  | 99       |
| 19) Chrysene                | 21.06 | 228  | 45991    | 2.704  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.51 | 252  | 54503m   | 3.811  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.54 | 252  | 18407m   | 1.165  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.03 | 252  | 35467    | 2.673  | ng/ul# | 85       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.17 | 276  | 21397    | 1.228  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.18 | 278  | 5572     | 0.404  | ng/ul  | 97       |
| 26) Benzo(a,h,i)perylene    | 25.80 | 276  | 17810    | 1.130  | ng/ul  | 97       |

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

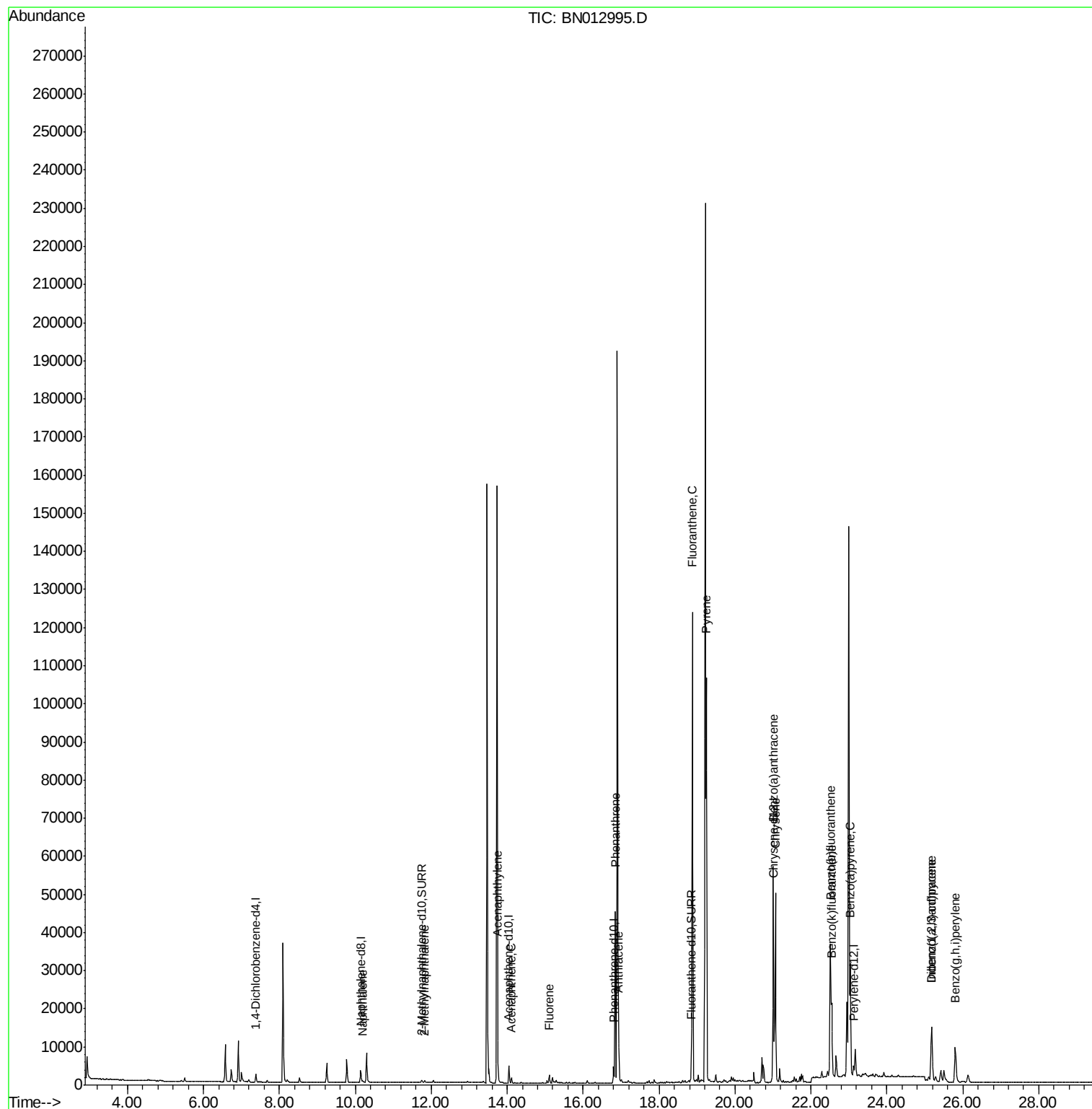
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN012995.D  
Acq On : 09 Dec 2020 03:29  
Operator : CG/JU  
Sample : L4942-04  
Misc :  
ALS Vial : 65 Sample Multiplier: 1

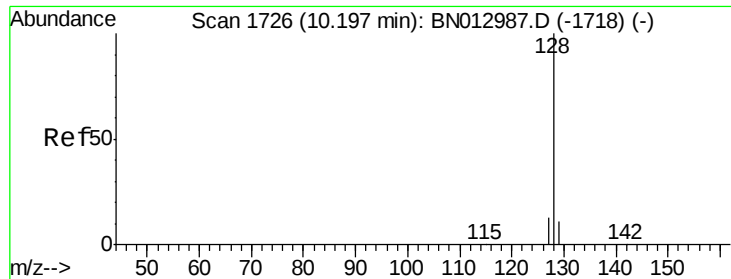
Instrument :  
BNA\_N  
ClientSampleId :  
C0B96

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Quant Time: Dec 09 07:41:12 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 09 07:33:34 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.063 ng/ul

RT: 10.19 min Scan# 1725

Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

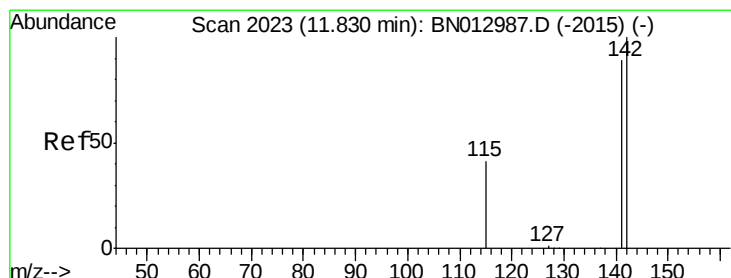
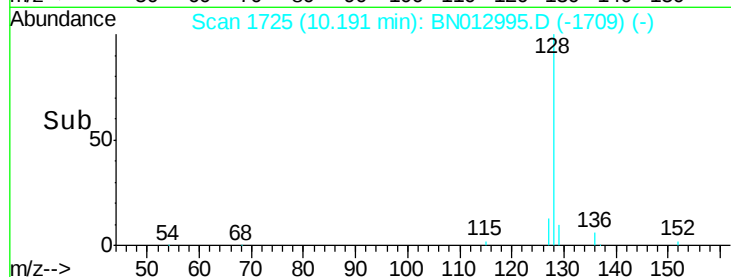
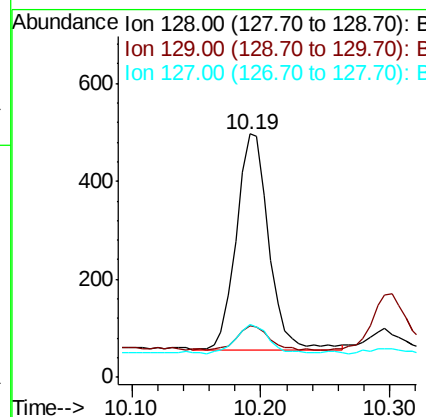
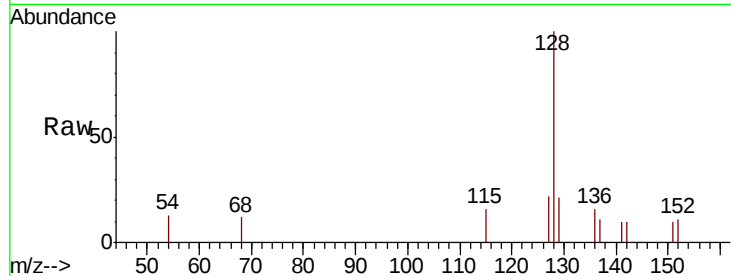
ClientSampleId :

C0B96

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 772   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 21.1  | 12.3  | 18.5# |
| 127       | 21.5  | 14.2  | 21.4# |

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#5

2-Methylnaphthalene

Concen: 0.053 ng/ul

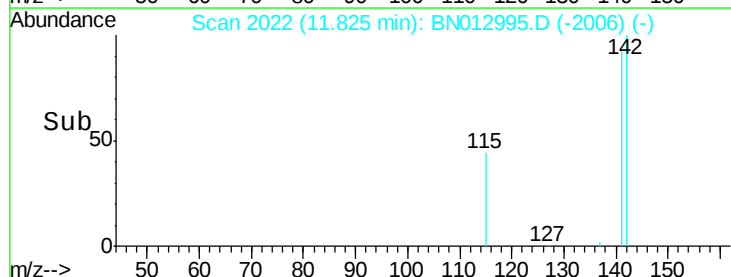
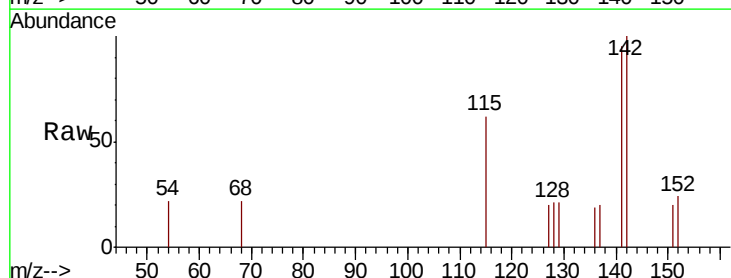
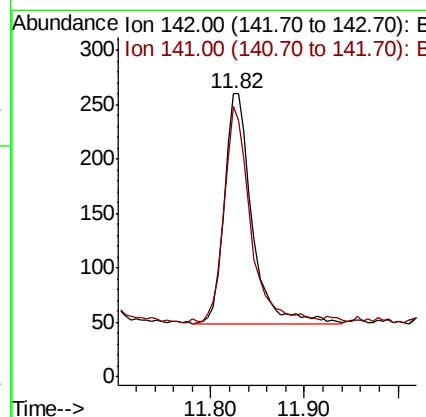
RT: 11.82 min Scan# 2022

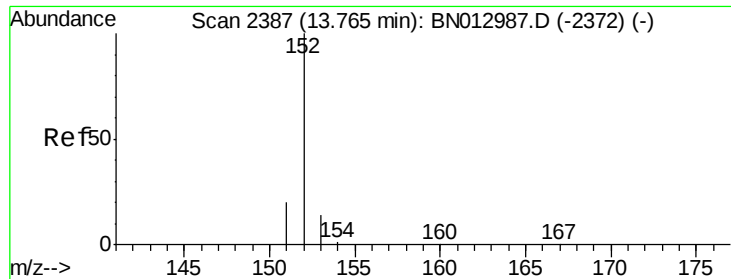
Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 428   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 90.2  | 73.0  | 109.6 |





#7

Acenaphthylene

Concen: 0.136 ng/ul

RT: 13.76 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

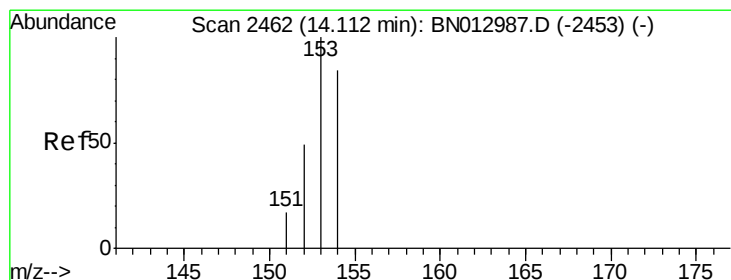
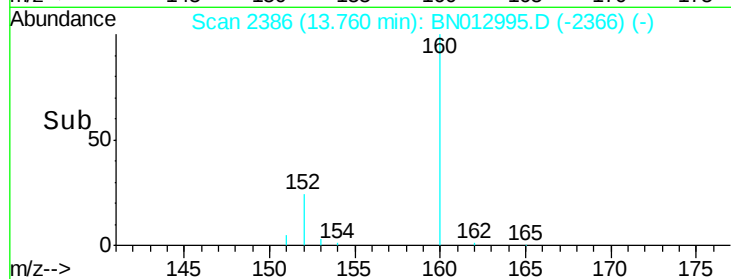
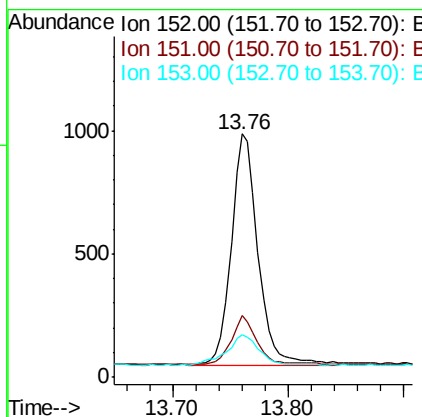
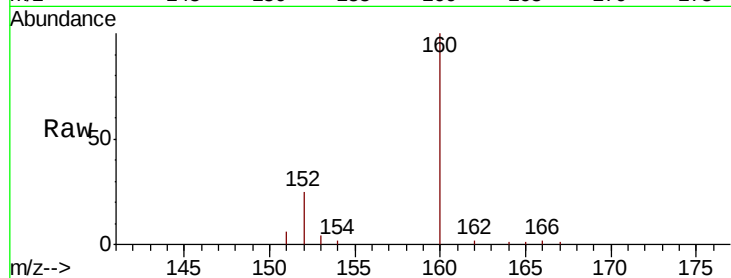
ClientSampled :

C0B96

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 1514  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 25.1  | 18.2  | 27.4  |
| 153      | 17.5  | 13.1  | 19.7  |

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#8

Acenaphthene

Concen: 0.093 ng/ul

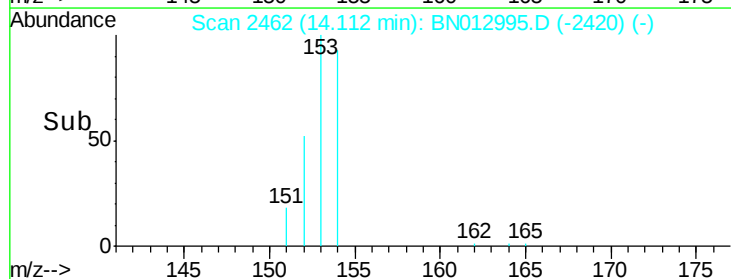
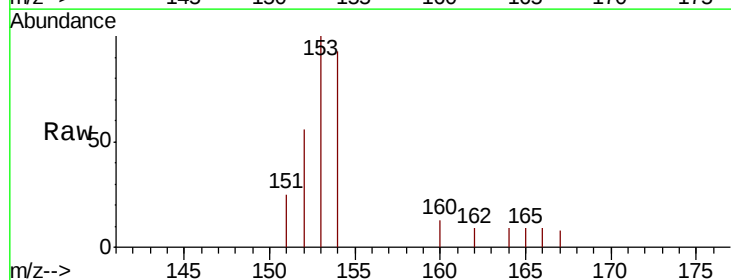
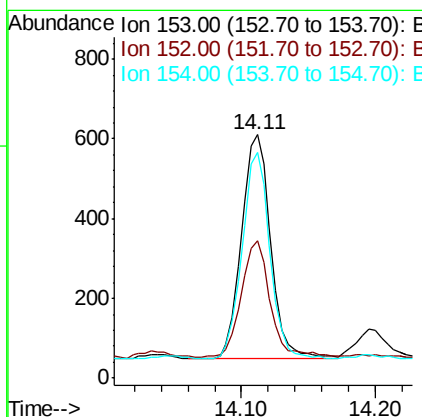
RT: 14.11 min Scan# 2462

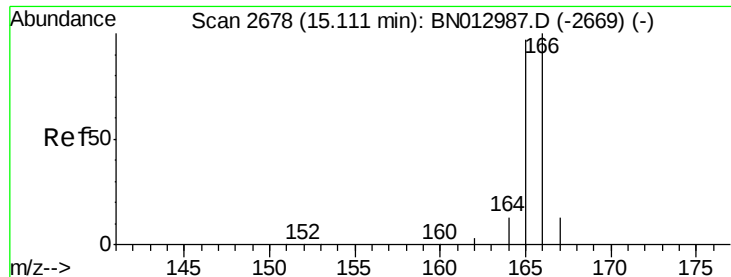
Delta R.T. -0.00 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 847   |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 56.5  | 40.7  | 61.1  |
| 154      | 92.6  | 70.8  | 106.2 |





#9

Fluorene

Concen: 0.126 ng/ul

RT: 15.11 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

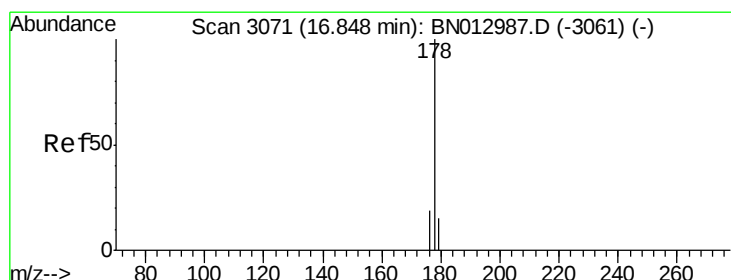
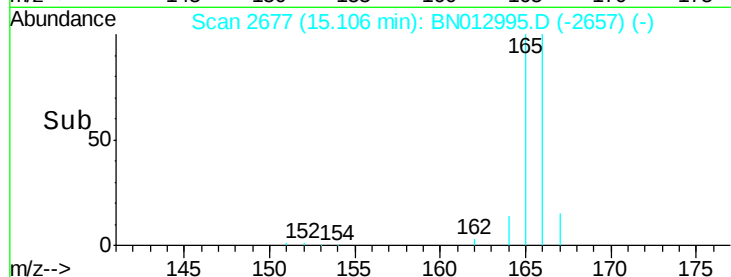
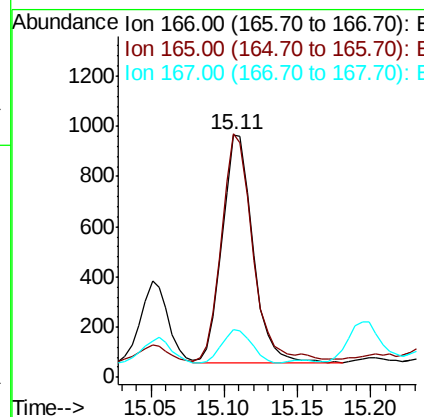
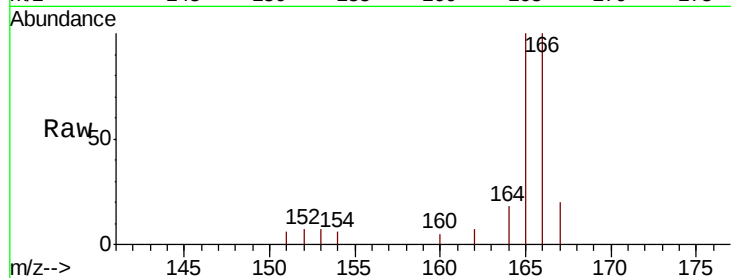
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 1319  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.3 | 79.8  | 119.8 |
| 167       | 19.8  | 13.8  | 20.8  |

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#12

Phenanthrene

Concen: 2.817 ng/ul

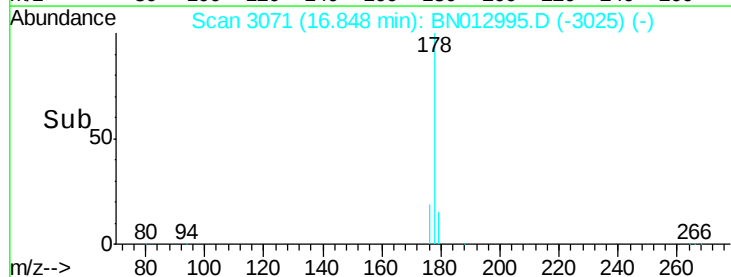
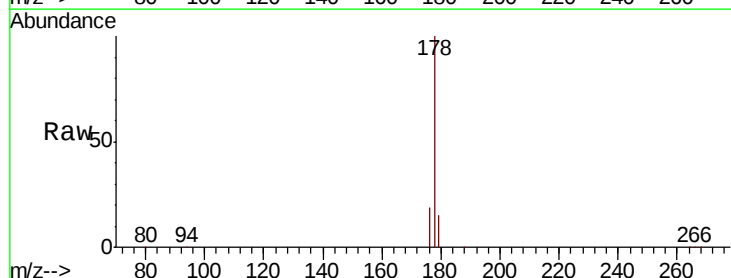
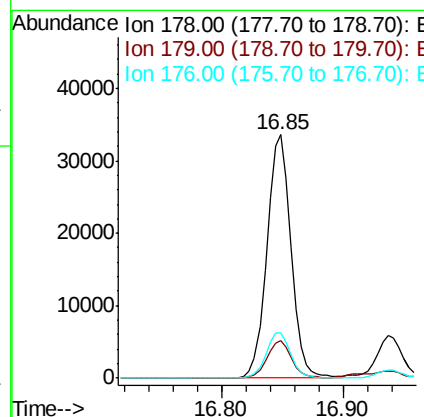
RT: 16.85 min Scan# 3071

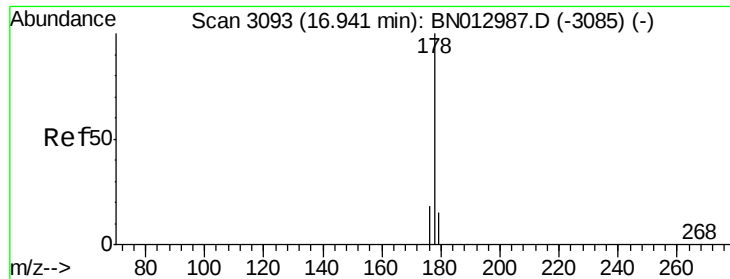
Delta R.T. -0.00 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 45569 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.4  | 13.6  | 20.4  |
| 176       | 18.8  | 16.4  | 24.6  |





#13

Anthracene

Concen: 0.593 ng/ul

RT: 16.94 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

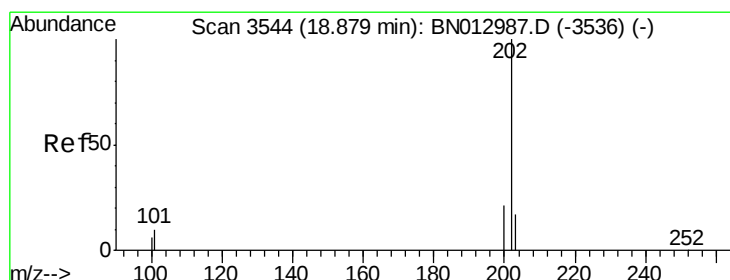
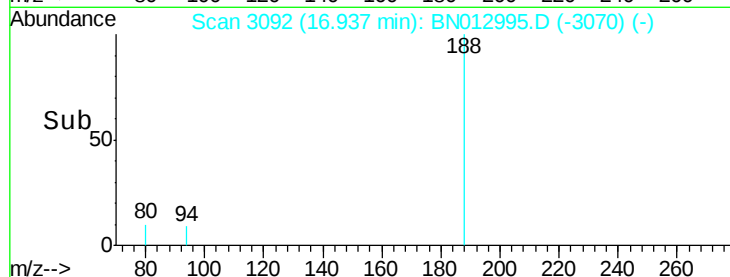
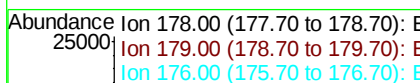
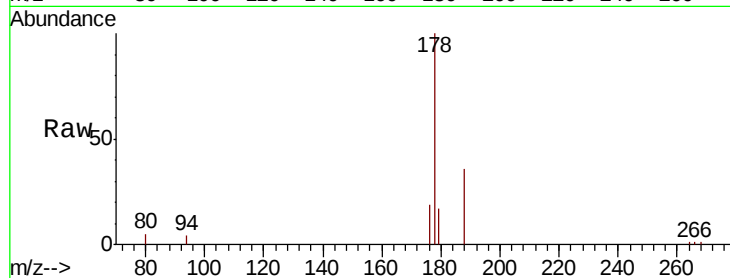
ClientSampled :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 178   | Resp: | 8161 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.6  | 14.6  | 21.8 |
| 176       | 19.1  | 17.1  | 25.7 |

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#15

Fluoranthene

Concen: 5.315 ng/ul

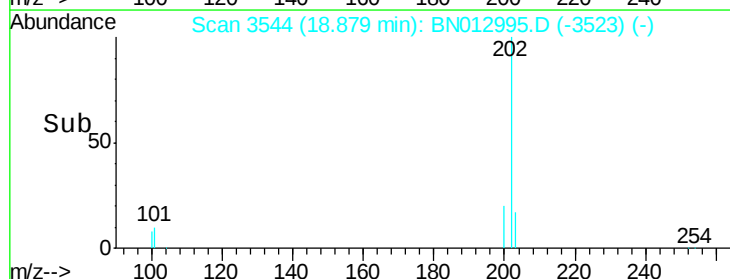
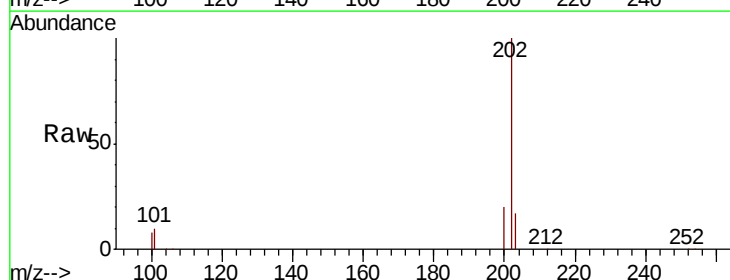
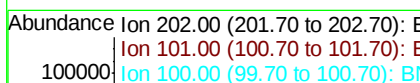
RT: 18.88 min Scan# 3544

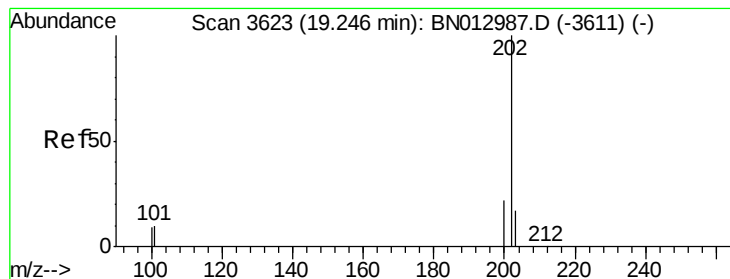
Delta R.T. -0.00 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 102175 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.9   | 0.0   | 30.6   |
| 100       | 7.6   | 0.0   | 28.7   |





#17

Pvrene

Concen: 5.032 ng/ul

RT: 19.25 min Scan# 3623

Delta R.T. -0.00 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

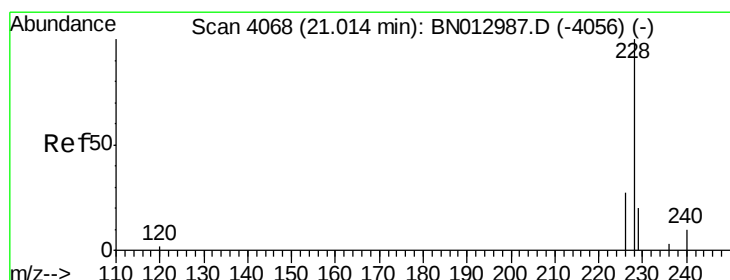
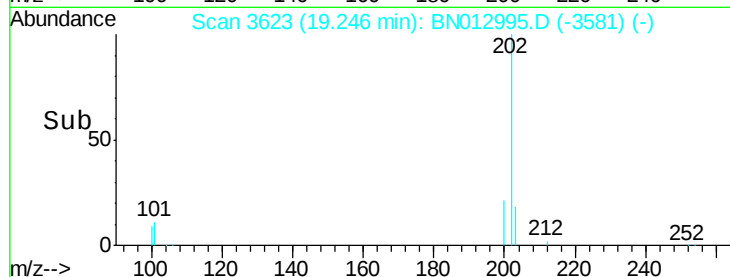
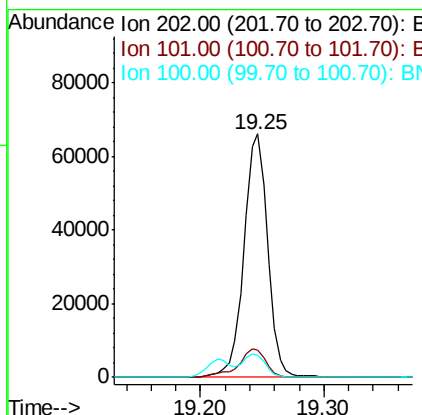
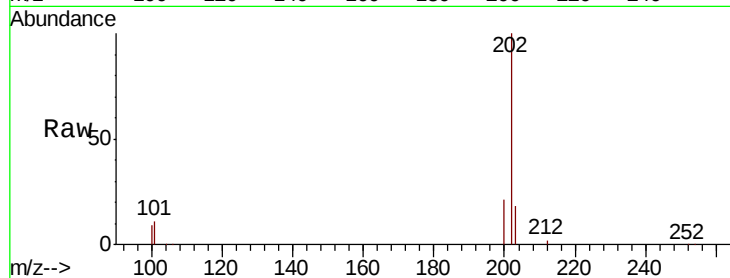
ClientSampleId :

C0B96

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 88442 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.1  | 9.1   | 13.7  |
| 100       | 9.2   | 7.5   | 11.3  |

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#18

Benzo(a)anthracene

Concen: 2.883 ng/ul

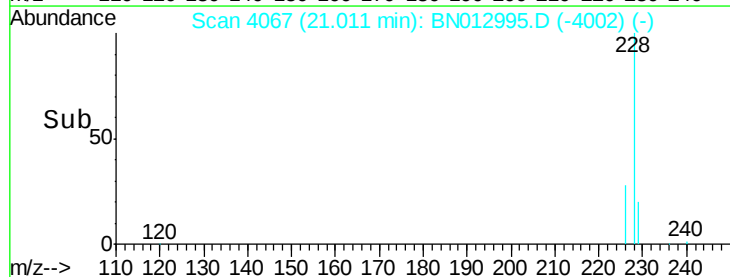
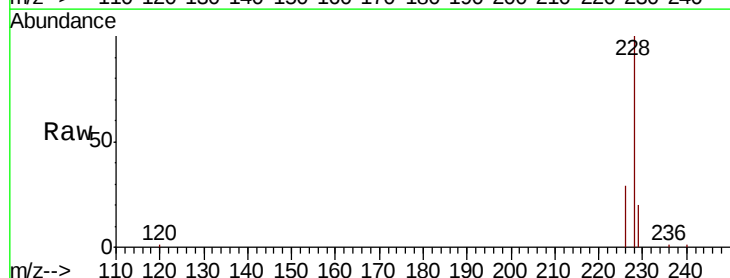
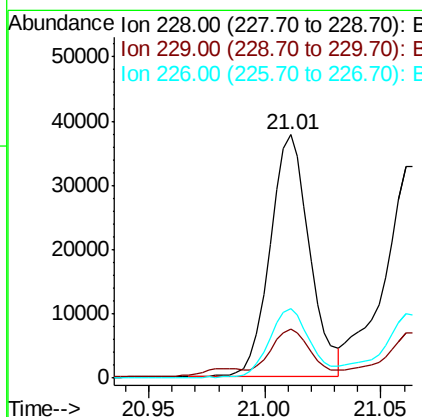
RT: 21.01 min Scan# 4067

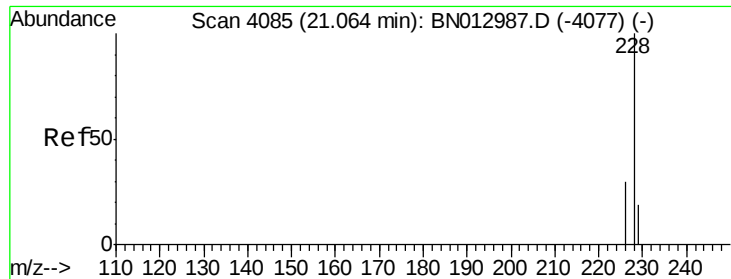
Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 44384 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.3  | 16.3  | 24.5  |
| 226       | 28.6  | 23.4  | 35.2  |





#19

Chrysene

Concen: 2.704 ng/ul

RT: 21.06 min Scan# 4085

Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

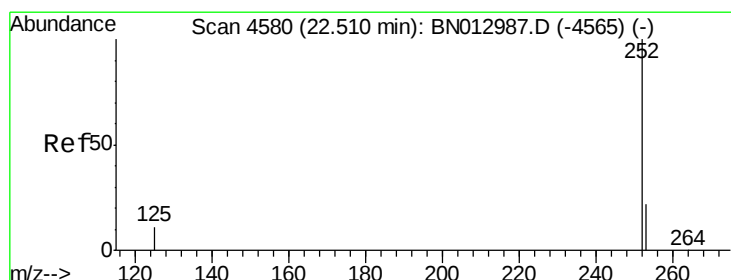
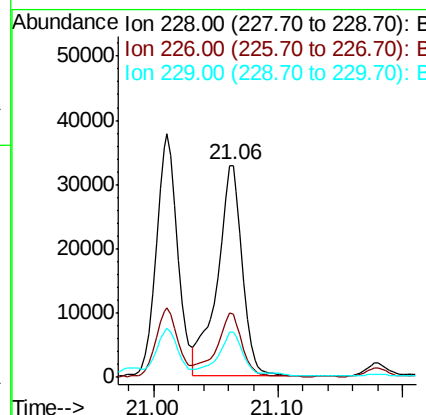
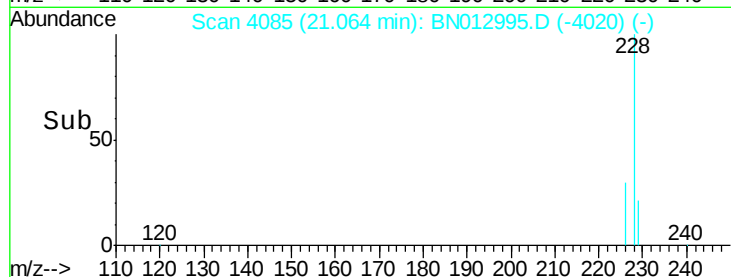
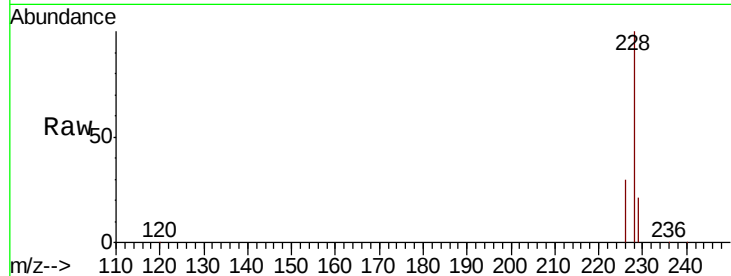
ClientSampleId :

C0B96

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 45991 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 25.0  | 37.6  |
| 229       | 21.5  | 16.4  | 24.6  |

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#21

Benzo(b)fluoranthene

Concen: 3.811 ng/ul m

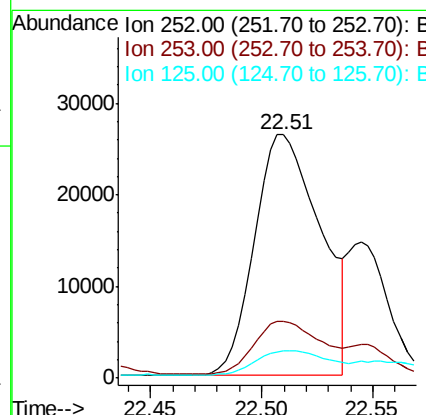
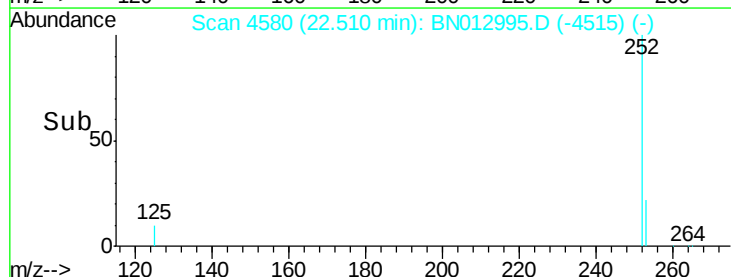
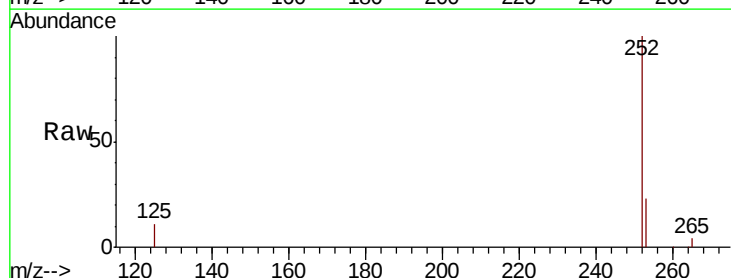
RT: 22.51 min Scan# 4580

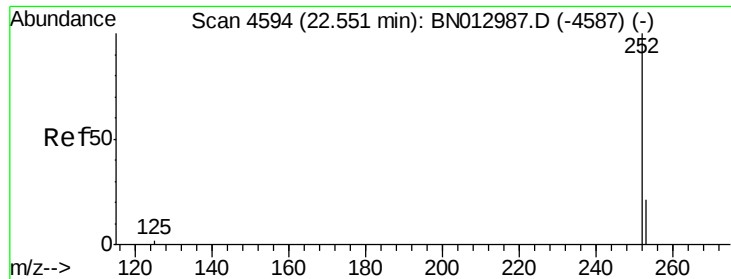
Delta R.T. -0.01 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 54503 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 0.0   | 59.6  |
| 125       | 11.4  | 0.0   | 26.0  |





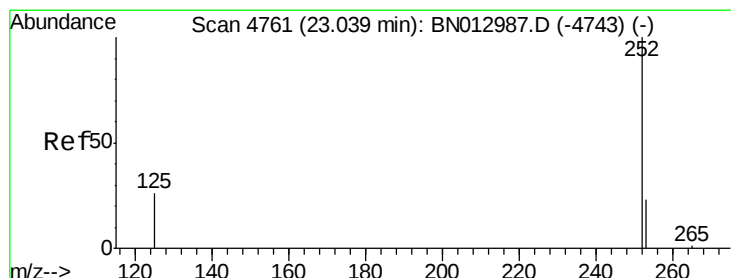
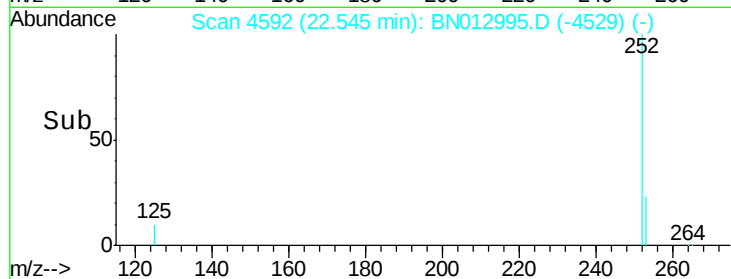
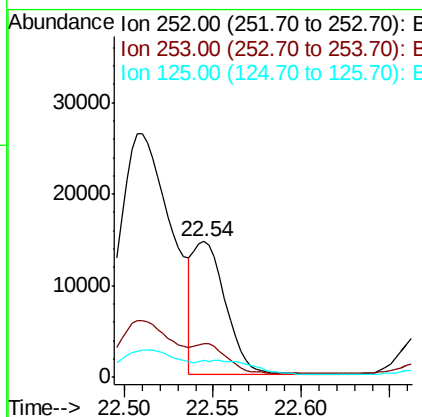
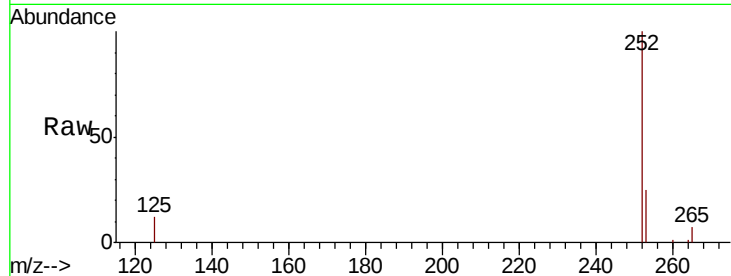
#22  
Benzo(k)fluoranthene  
Concen: 1.165 ng/ul m  
RT: 22.54 min Scan# 4592  
Delta R.T. -0.01 min  
Lab File: BN012995.D  
Acq: 09 Dec 2020 03:29

Instrument :  
BNA\_N  
ClientSampleId :  
C0B96

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 23.4  | 35.2  |
| 125     | 12.1  | 11.1  | 16.7  |

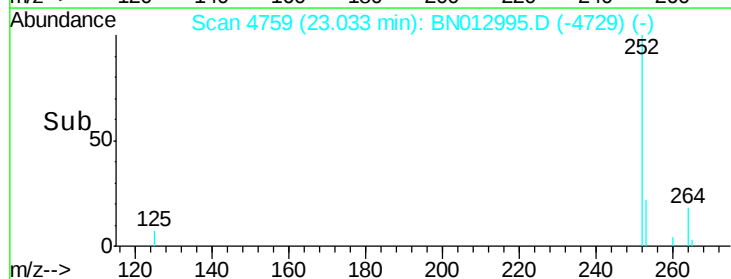
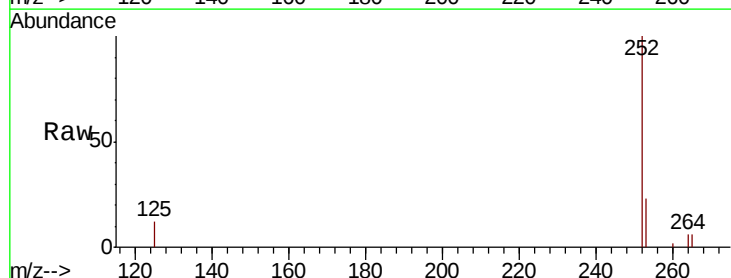
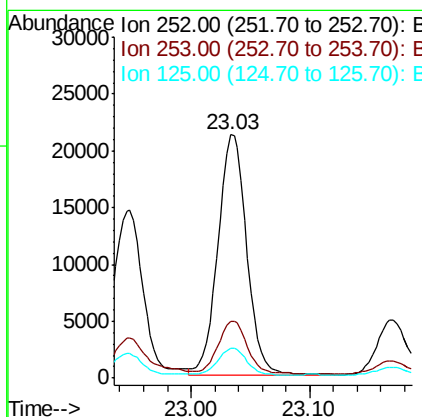
Manual Integrations  
APPROVED

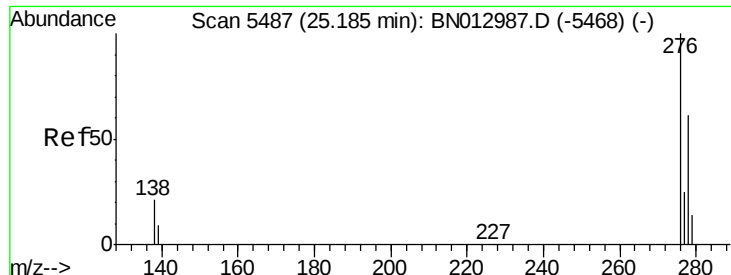
mohammad  
12/9/2020 12:25:43 PM



#23  
Benzo(a)pyrene  
Concen: 2.673 ng/ul  
RT: 23.03 min Scan# 4759  
Delta R.T. -0.01 min  
Lab File: BN012995.D  
Acq: 09 Dec 2020 03:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 26.5  | 39.7# |
| 125     | 12.3  | 14.2  | 21.2# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 1.228 ng/ul

RT: 25.17 min Scan# 5484

Delta R.T. -0.02 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Instrument :

BNA\_N

ClientSampleId :

C0B96

Tot Ion: 276 Resp: 21397

Ion Ratio Lower Upper

276 100

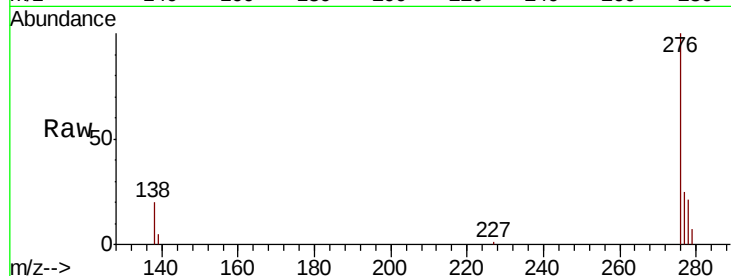
138 19.5 16.2 24.2

227 0.2 0.0 0.0#

Manual Integrations  
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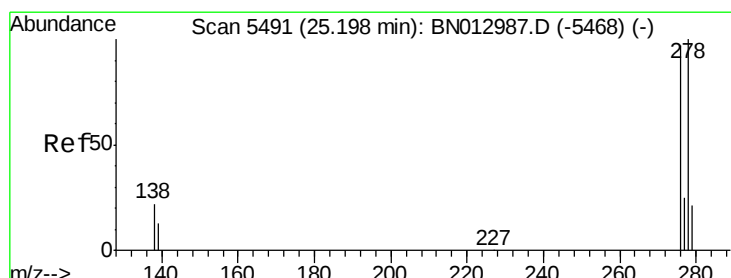
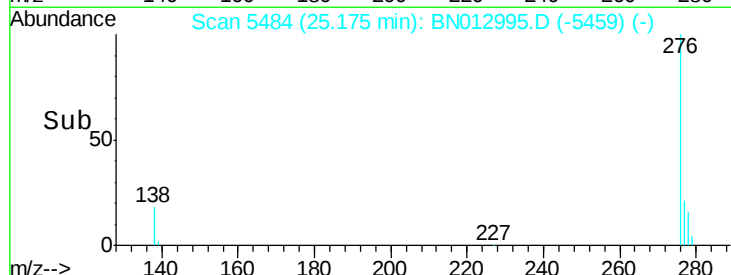
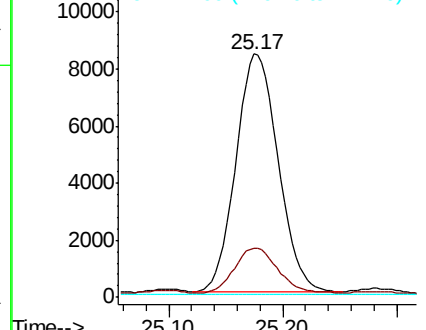
12/9/2020 12:25:43 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25

Dibenzo(a,h)anthracene

Concen: 0.404 ng/ul

RT: 25.18 min Scan# 5487

Delta R.T. -0.02 min

Lab File: BN012995.D

Acq: 09 Dec 2020 03:29

Tgt Ion: 278 Resp: 5572

Ion Ratio Lower Upper

278 100

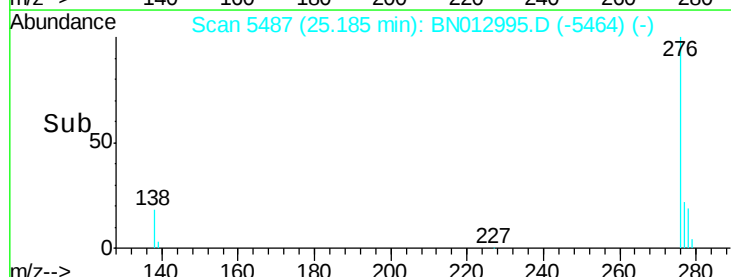
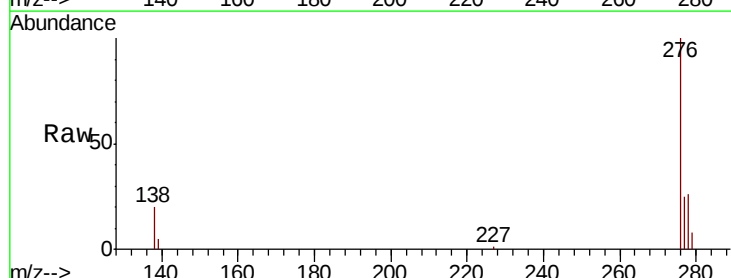
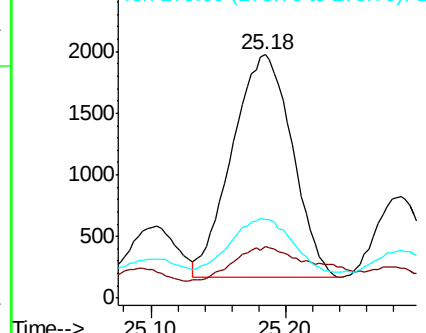
139 21.1 14.5 21.7

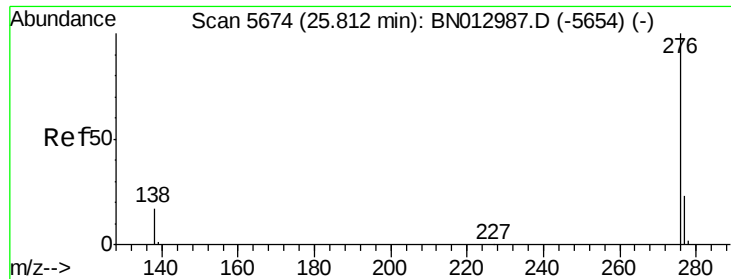
279 32.5 26.3 39.5

Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





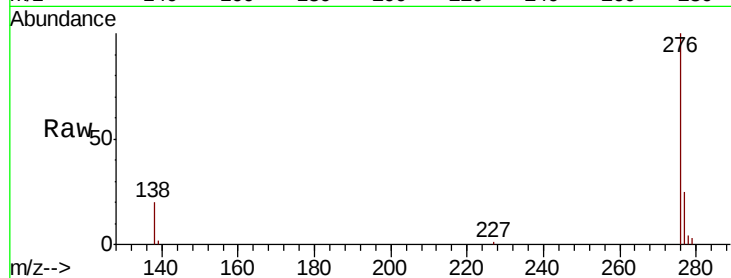
#26  
 Benzo(a,h,i)perylene  
 Concen: 1.130 ng/ul  
 RT: 25.80 min Scan# 5671  
 Delta R.T. -0.02 min  
 Lab File: BN012995.D  
 Acq: 09 Dec 2020 03:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B96

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.2  | 16.3  | 24.5  |
| 277     | 25.0  | 21.8  | 32.6  |

Manual Integrations  
 APPROVED

mohammad  
 12/9/2020 12:25:43 PM



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

