

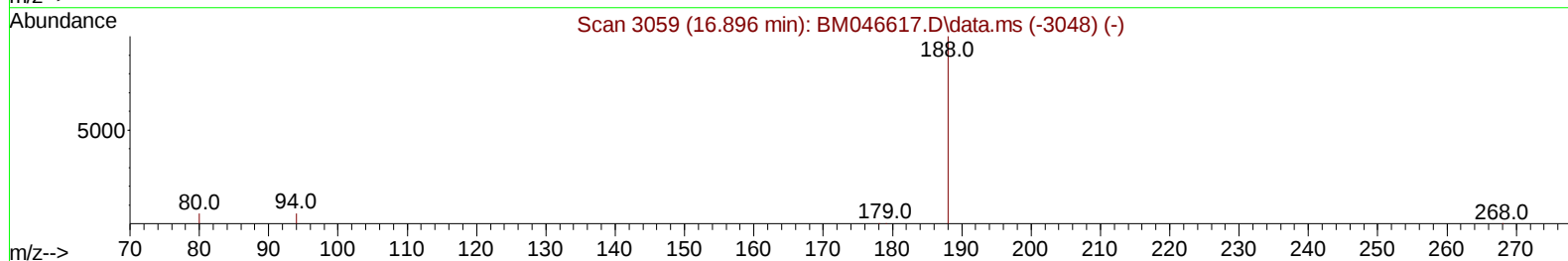
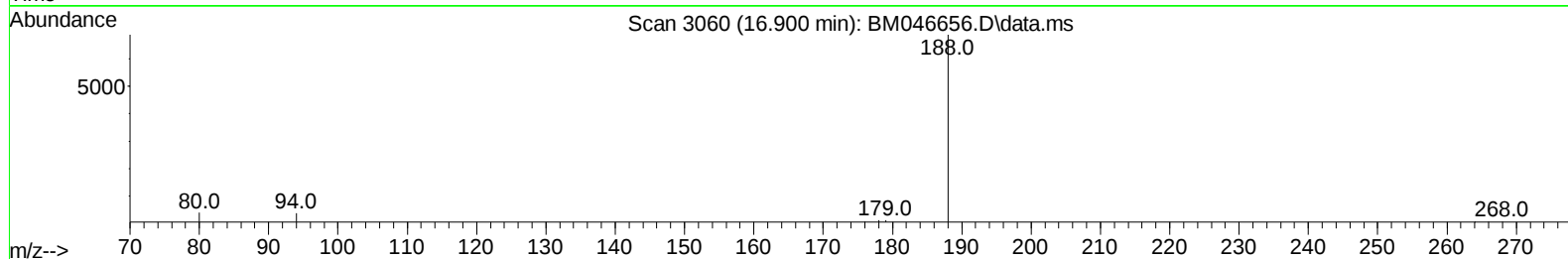
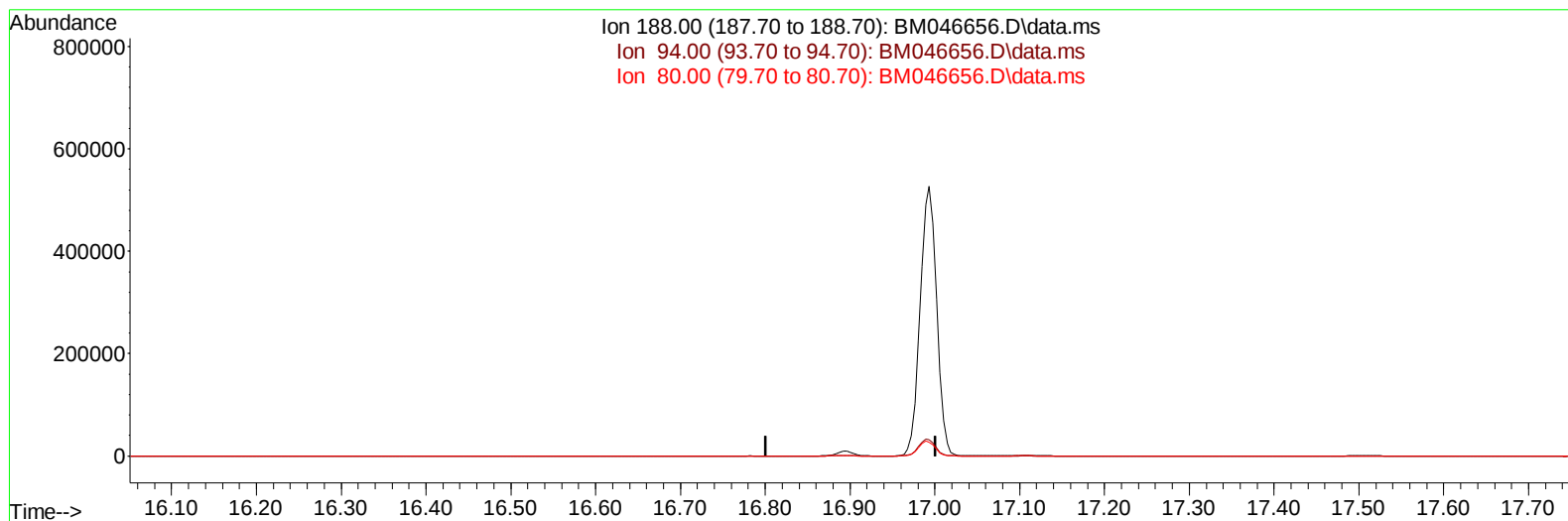
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

**(13) Phenanthrene-d10 (I)**

**16.901min (-16.901) 0.00 ng/u1**

**response 0**

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 188.00 | 100.00 | 0.00  |
| 94.00  | 6.40   | 0.00# |
| 80.00  | 6.60   | 0.00# |
| 0.00   | 0.00   | 0.00  |

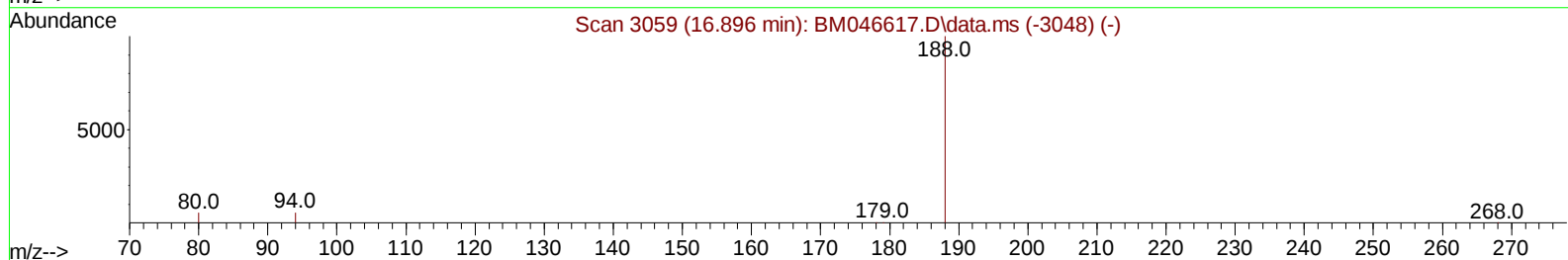
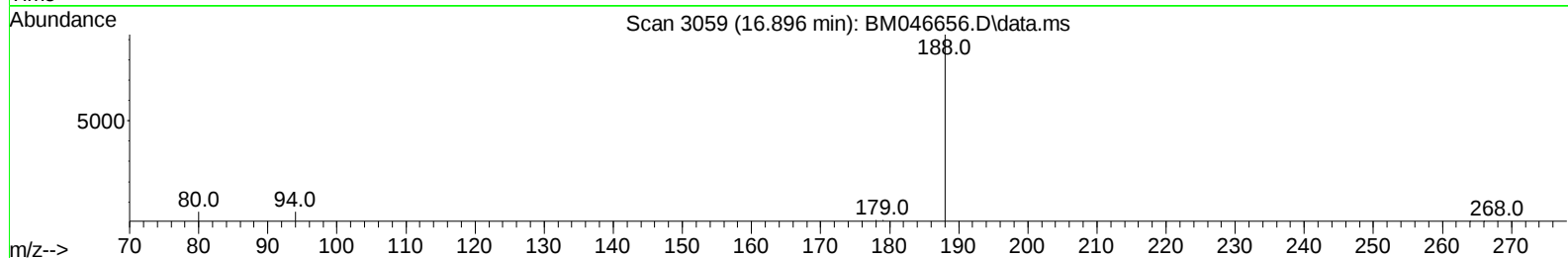
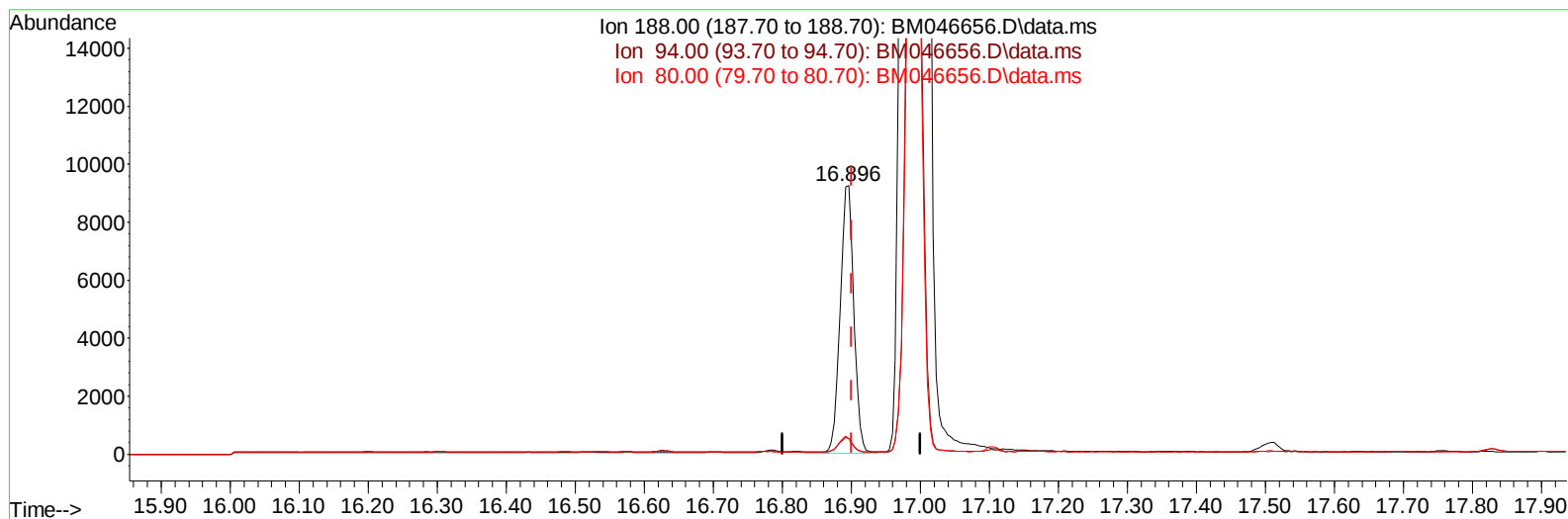
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
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Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

(13) Phenanthrene-d10 (I)

16.896min (-0.005) 0.40 ng/u1 m

response 12532

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 188.00 | 100.00 | 100.00 |
| 94.00  | 6.40   | 5.73   |
| 80.00  | 6.60   | 5.73   |
| 0.00   | 0.00   | 0.00   |

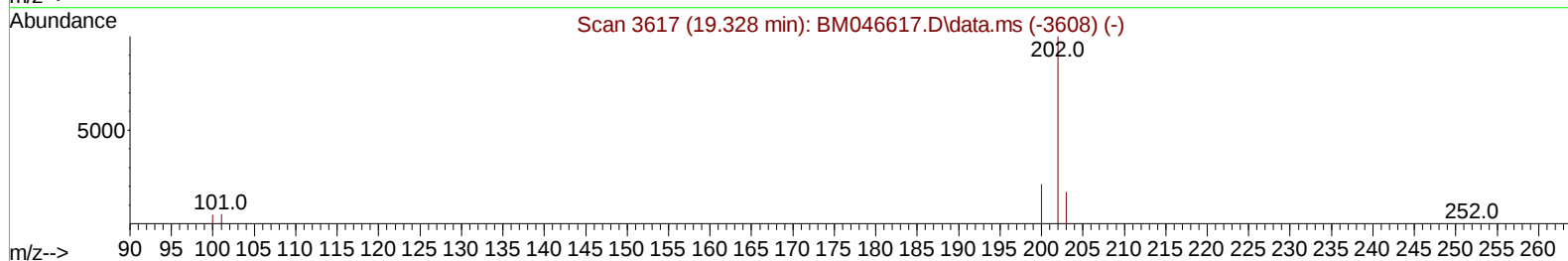
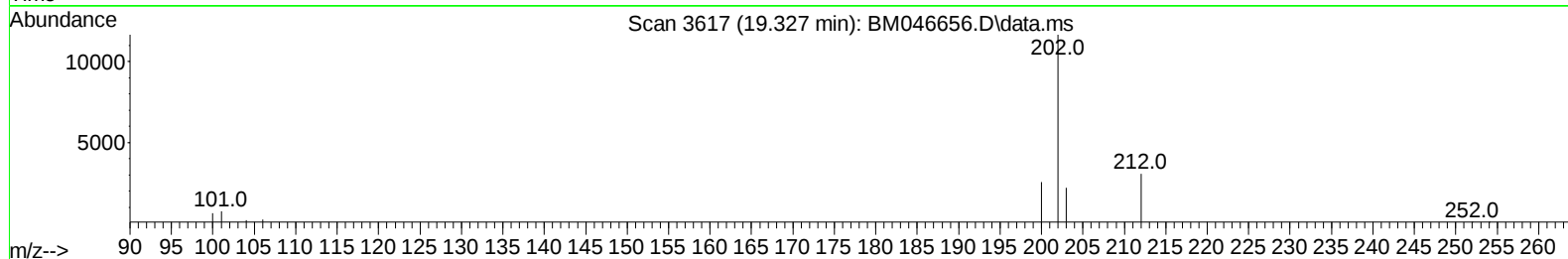
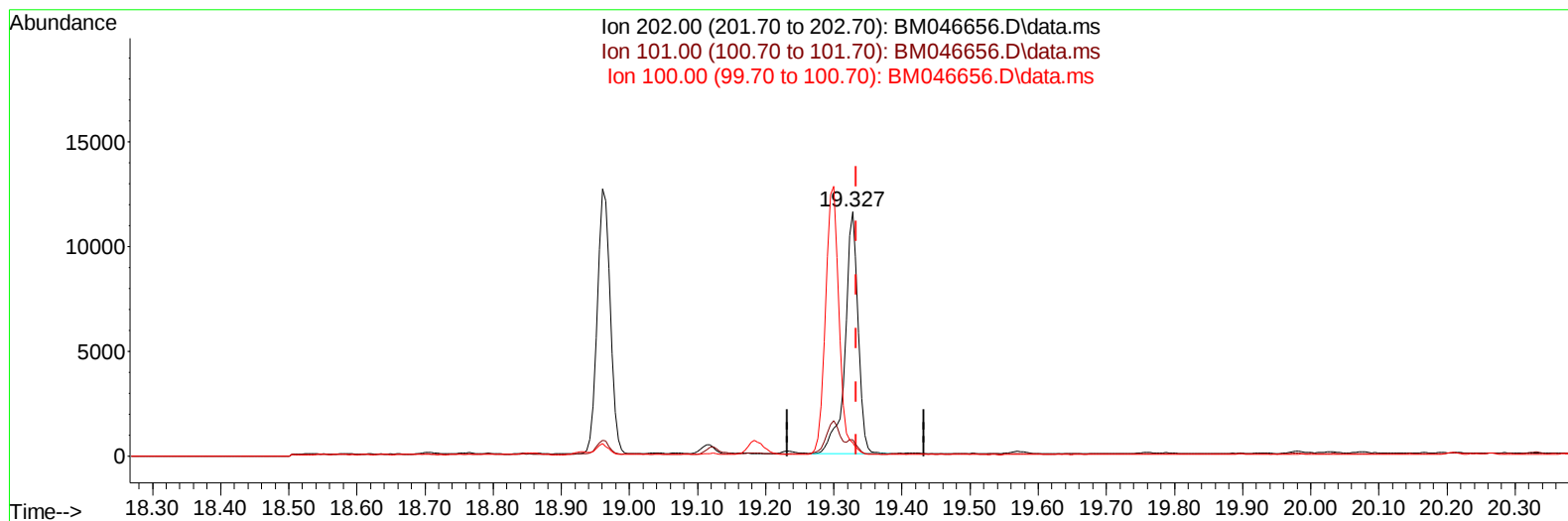
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
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QLast Update : Mon Jul 15 08:57:27 2024  
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Reviewed By :Yogesh Patel 07/18/2024  
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TIC: BM046656.D\data.ms

(20) Pyrene

19.327min (-0.005) 0.33 ng/u1

response 15871

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 6.40   | 6.60   |
| 100.00 | 4.70   | 5.37   |
| 0.00   | 0.00   | 0.00   |

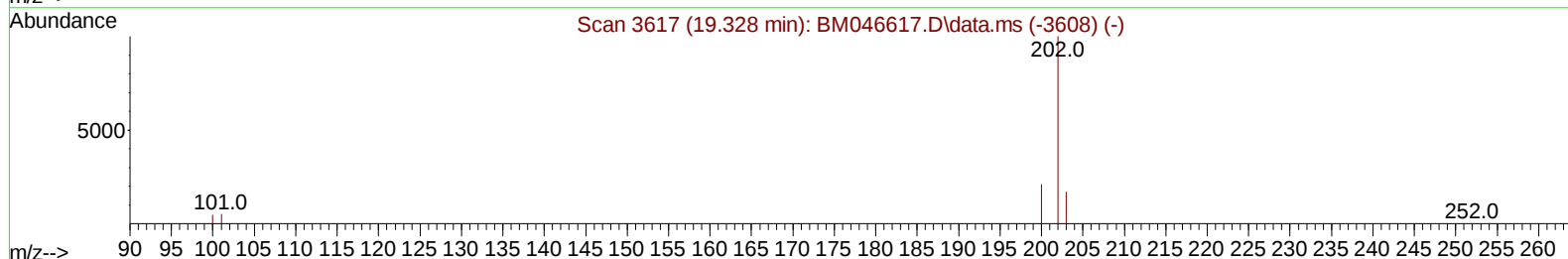
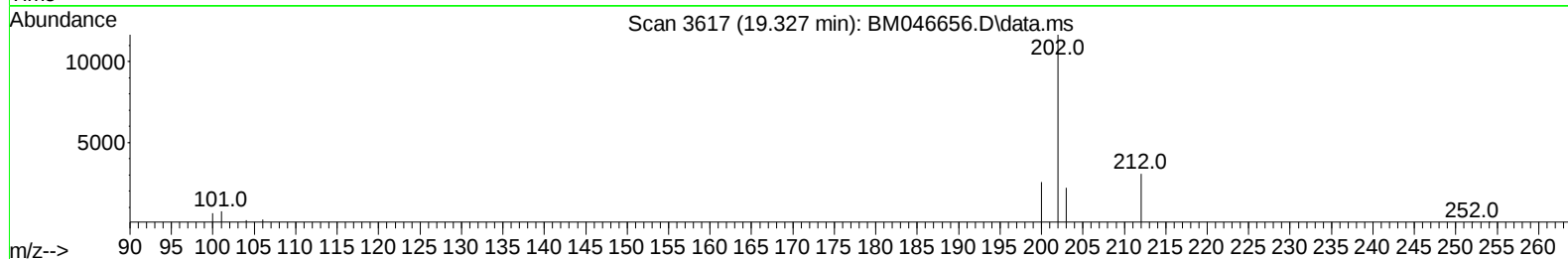
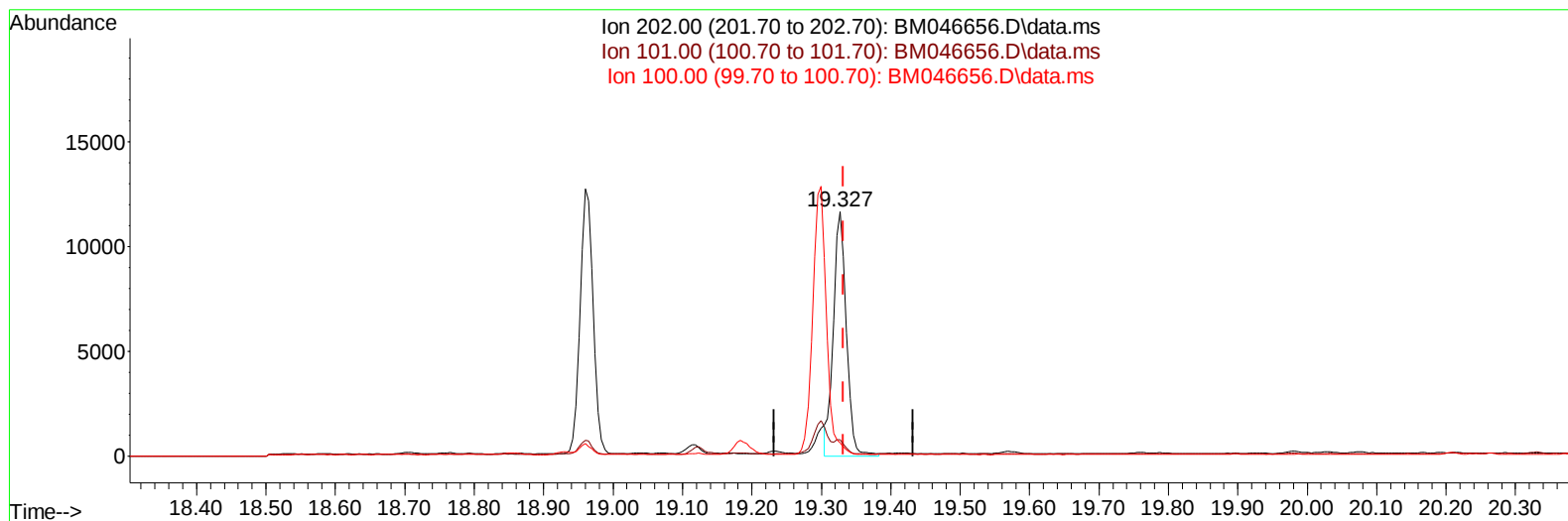
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

(20) Pyrene

19.327min (-0.005) 0.32 ng/ul m

response 15125

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 202.00 | 100.00 | 100.00 |
| 101.00 | 6.40   | 6.60   |
| 100.00 | 4.70   | 5.37   |
| 0.00   | 0.00   | 0.00   |

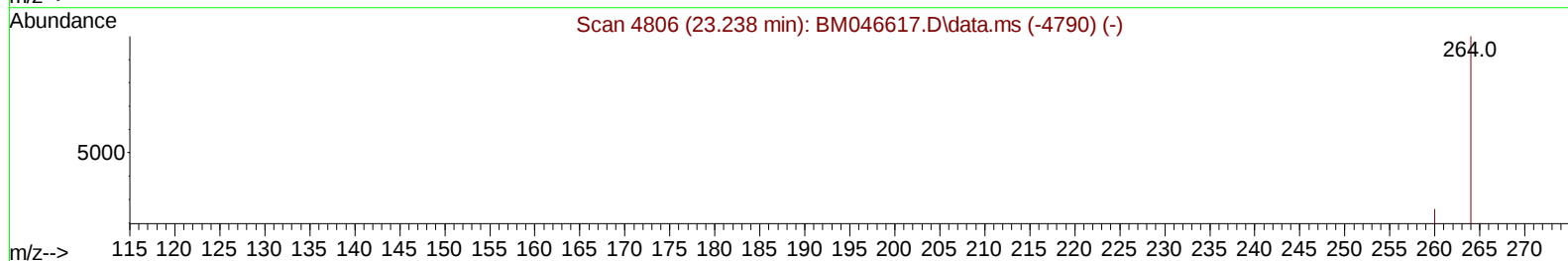
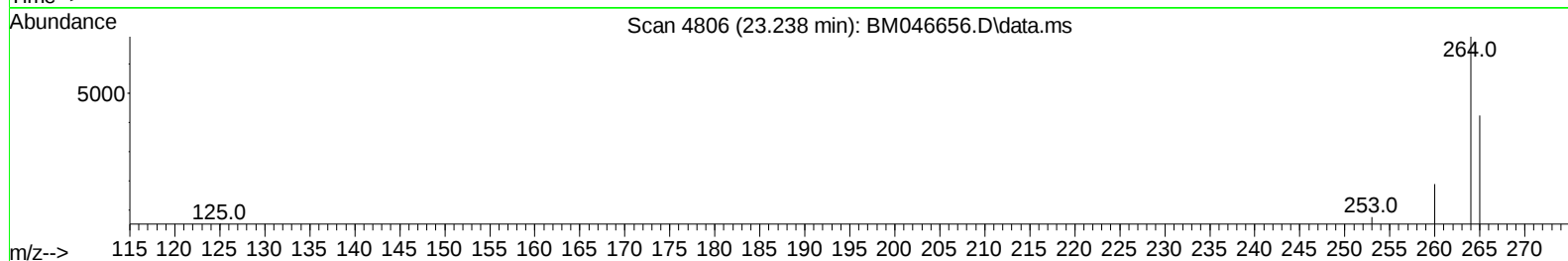
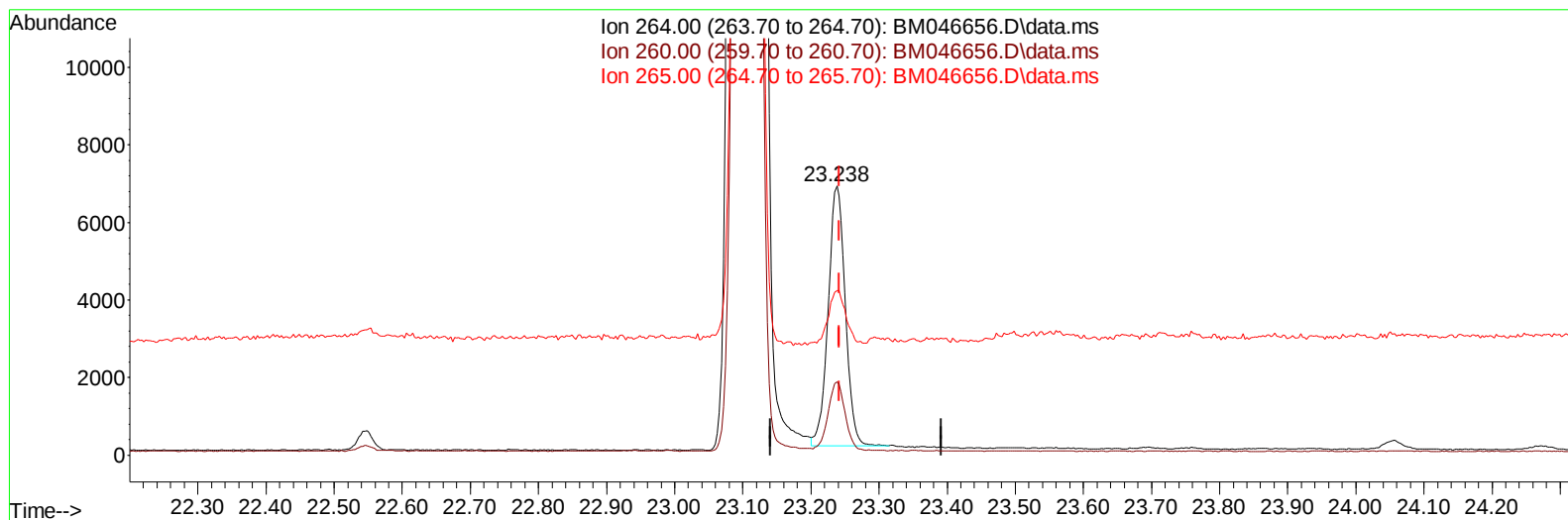
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
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Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

(23) Perylene-d12 (I)

23.238min (-0.003) 0.40 ng/u1

response 11695

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.80  | 27.15  |
| 265.00 | 88.90  | 61.09# |
| 0.00   | 0.00   | 0.00   |

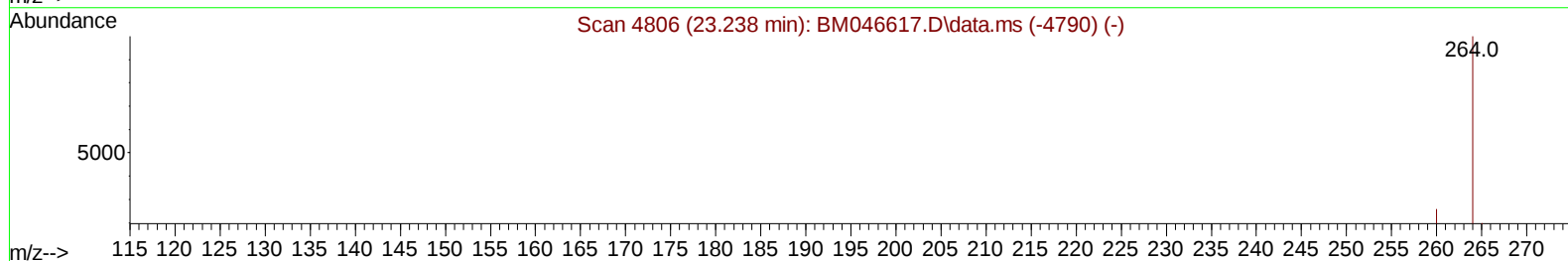
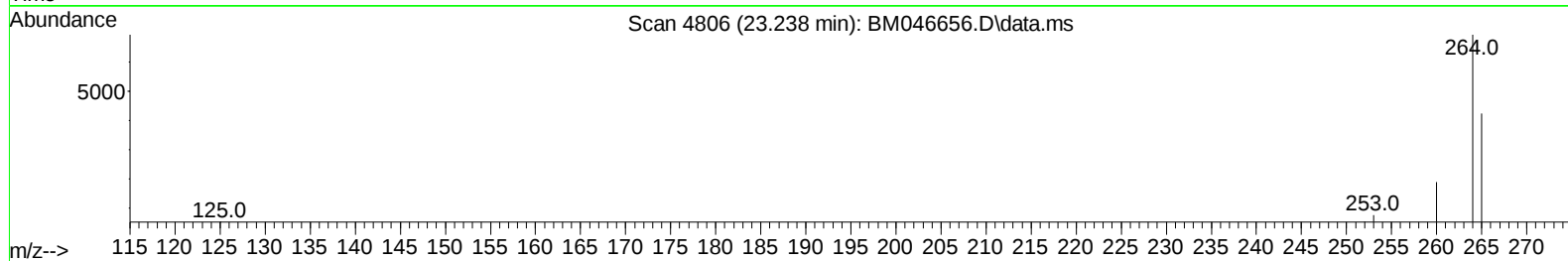
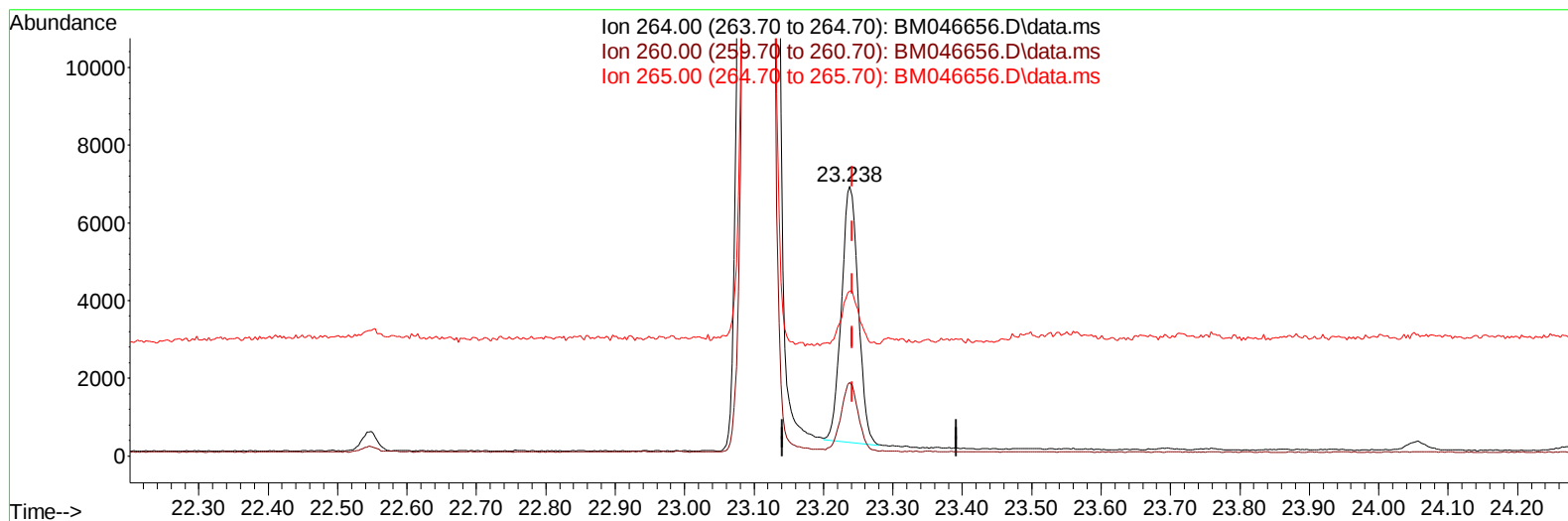
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

(23) Perylene-d12 (I)

23.238min (-0.003) 0.40 ng/ul m

response 11164

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 26.80  | 27.15  |
| 265.00 | 88.90  | 61.09# |
| 0.00   | 0.00   | 0.00   |

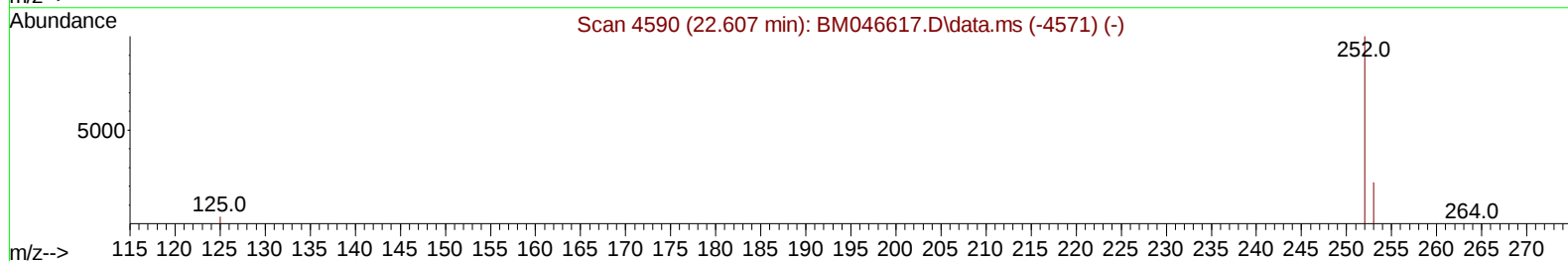
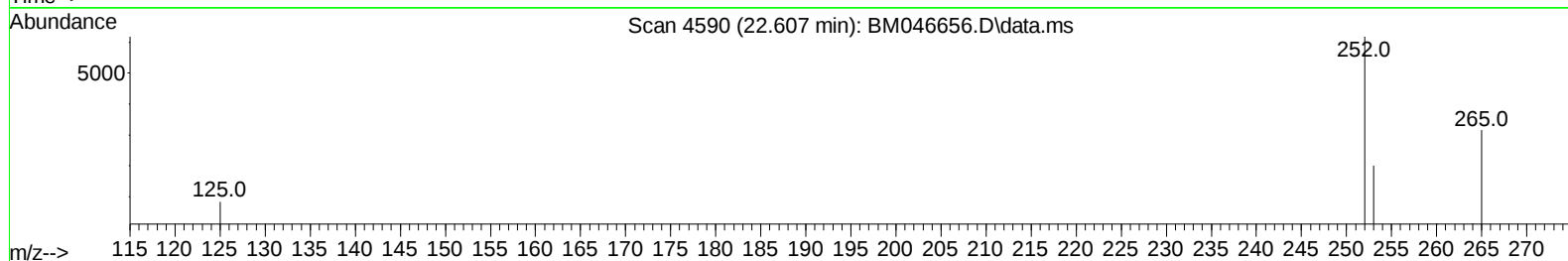
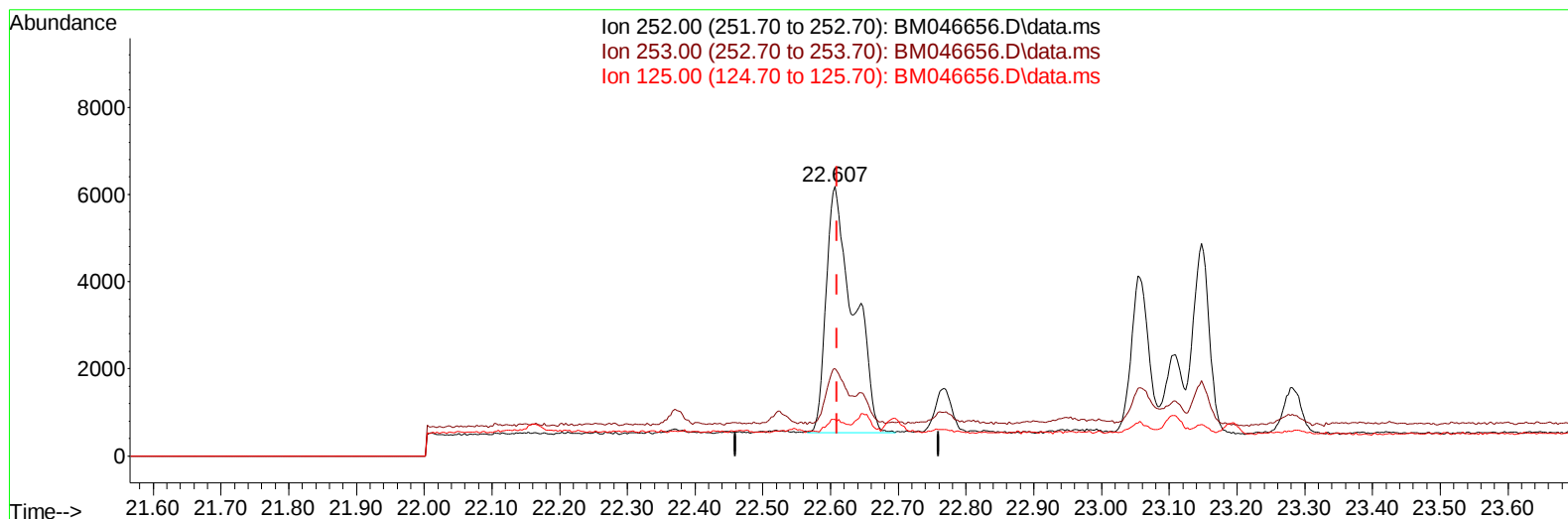
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
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QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration



TIC: BM046656.D\data.ms

## (24) Benzo(b)fluoranthene

22.607min (-0.003) 0.35 ng/u1

response 15719

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 28.10  | 32.51  |
| 125.00 | 8.90   | 13.56  |
| 0.00   | 0.00   | 0.00   |

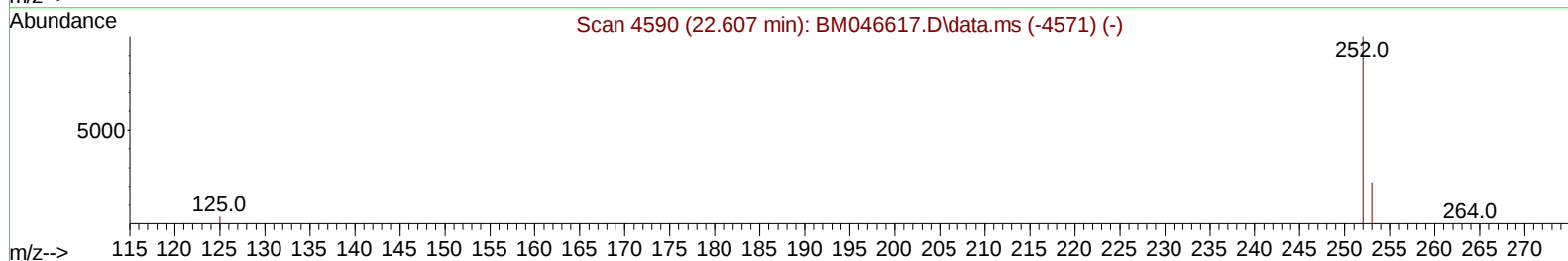
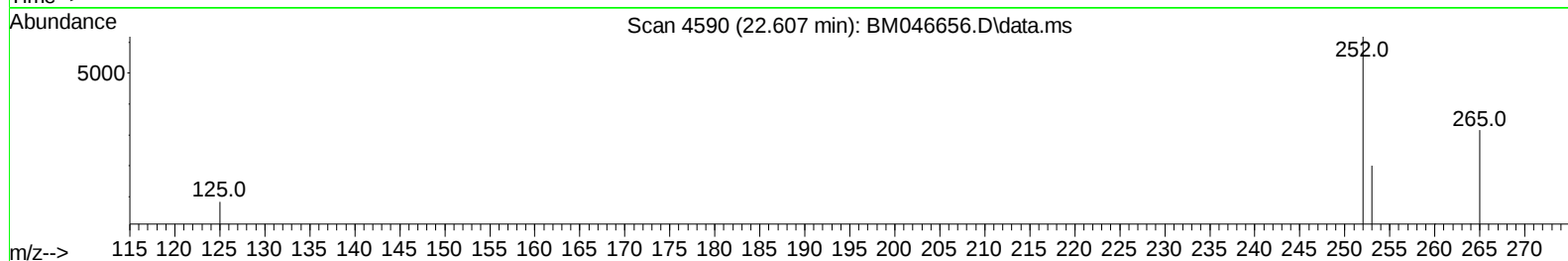
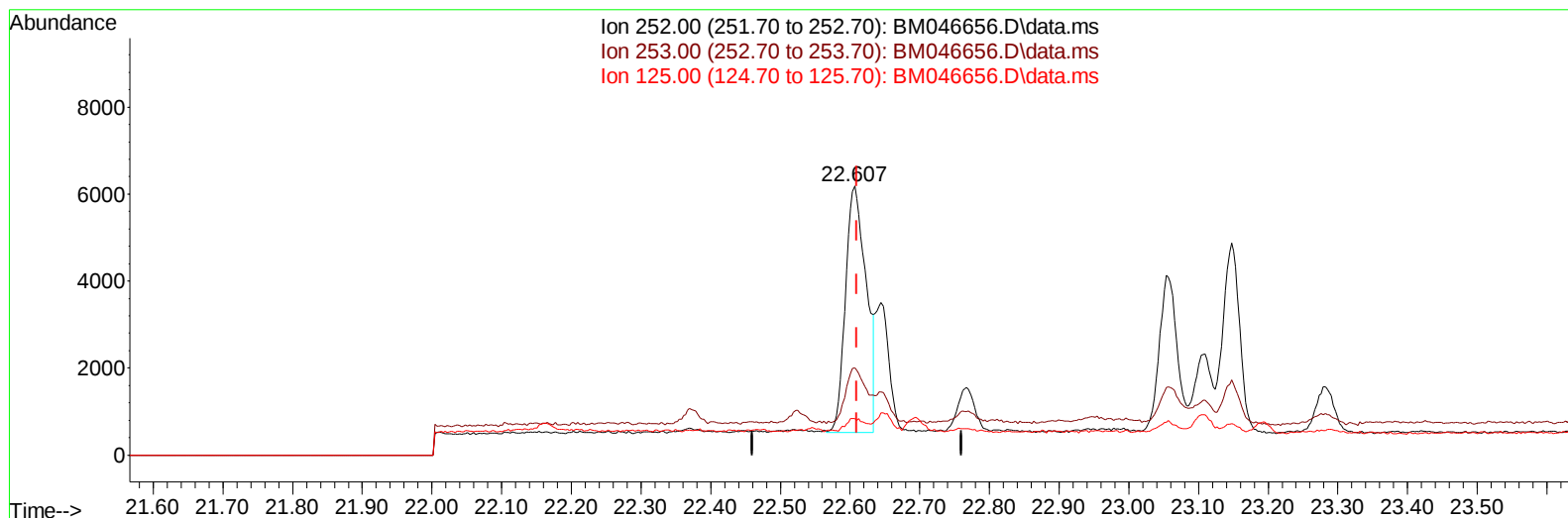
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

## Manual IntegrationsAPPROVED

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024



TIC: BM046656.D\data.ms

## (24) Benzo(b)fluoranthene

22.607min (-0.003) 0.26 ng/u1 m

response 11715

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 28.10  | 32.51  |
| 125.00 | 8.90   | 13.56  |
| 0.00   | 0.00   | 0.00   |

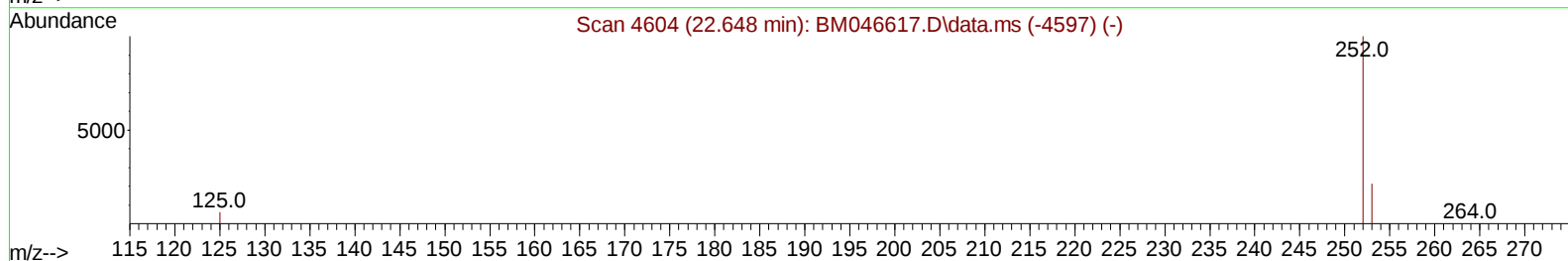
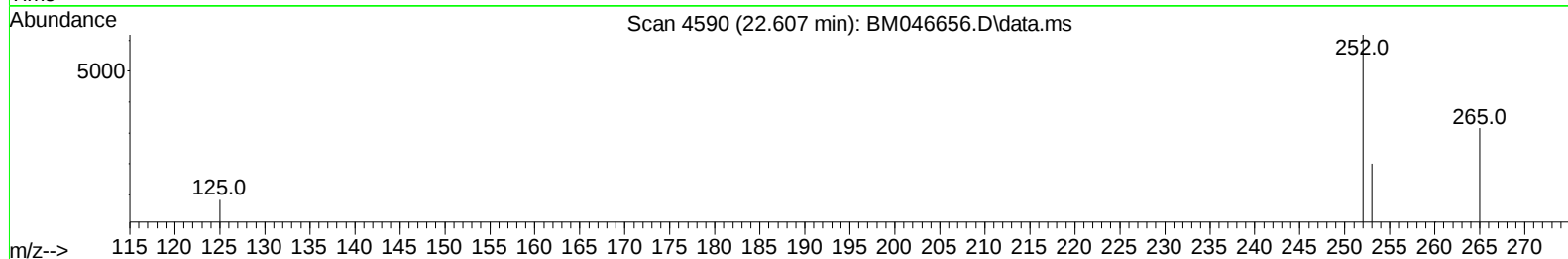
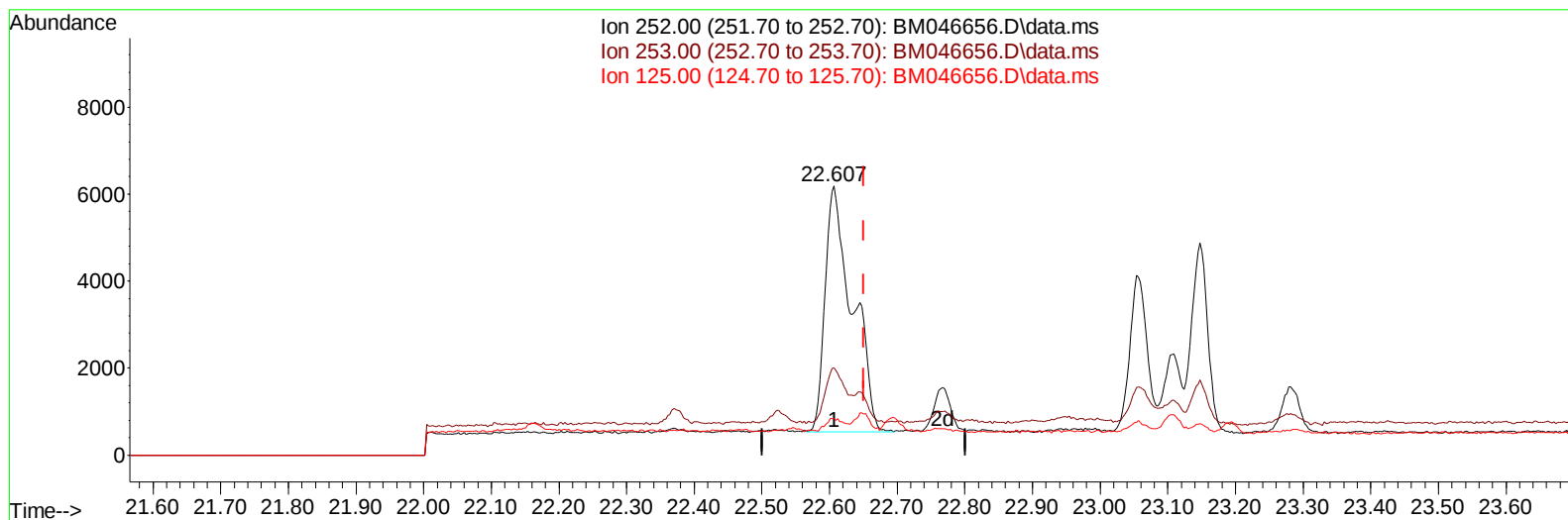
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
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TIC: BM046656.D\data.ms

## (25) Benzo(k)fluoranthene

22.607min (-0.044) 0.36 ng/u1

response 15719

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 28.00  | 32.51  |
| 125.00 | 8.70   | 13.56# |
| 0.00   | 0.00   | 0.00   |

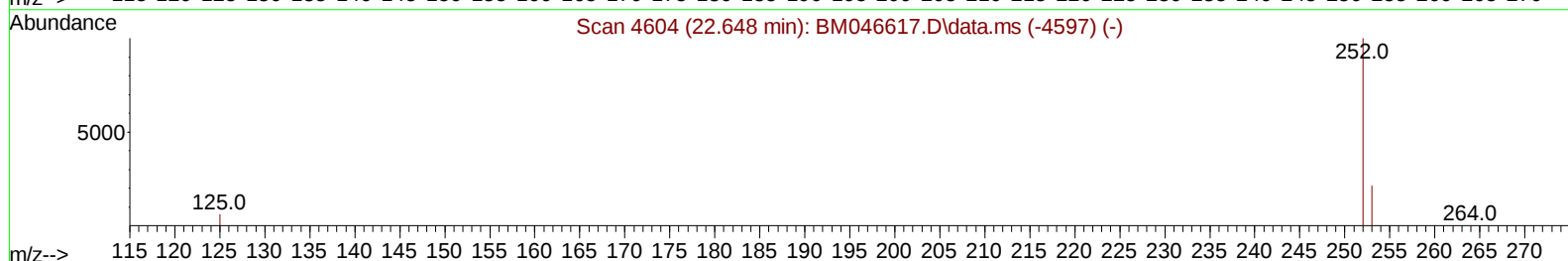
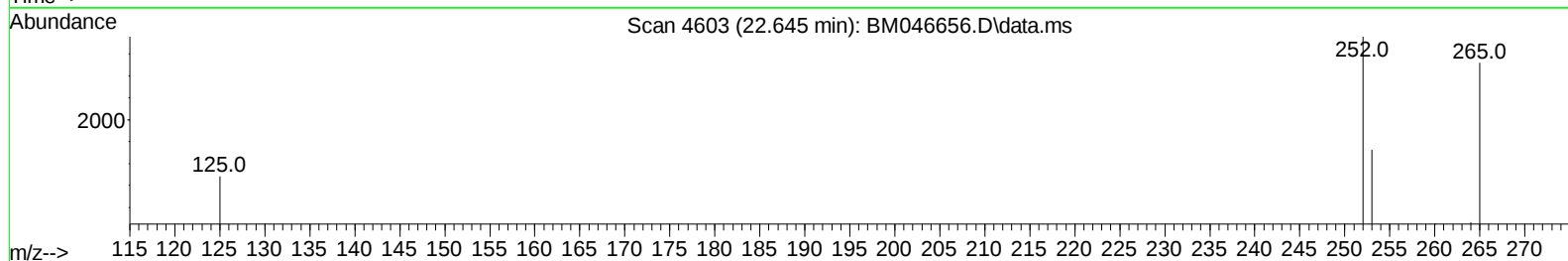
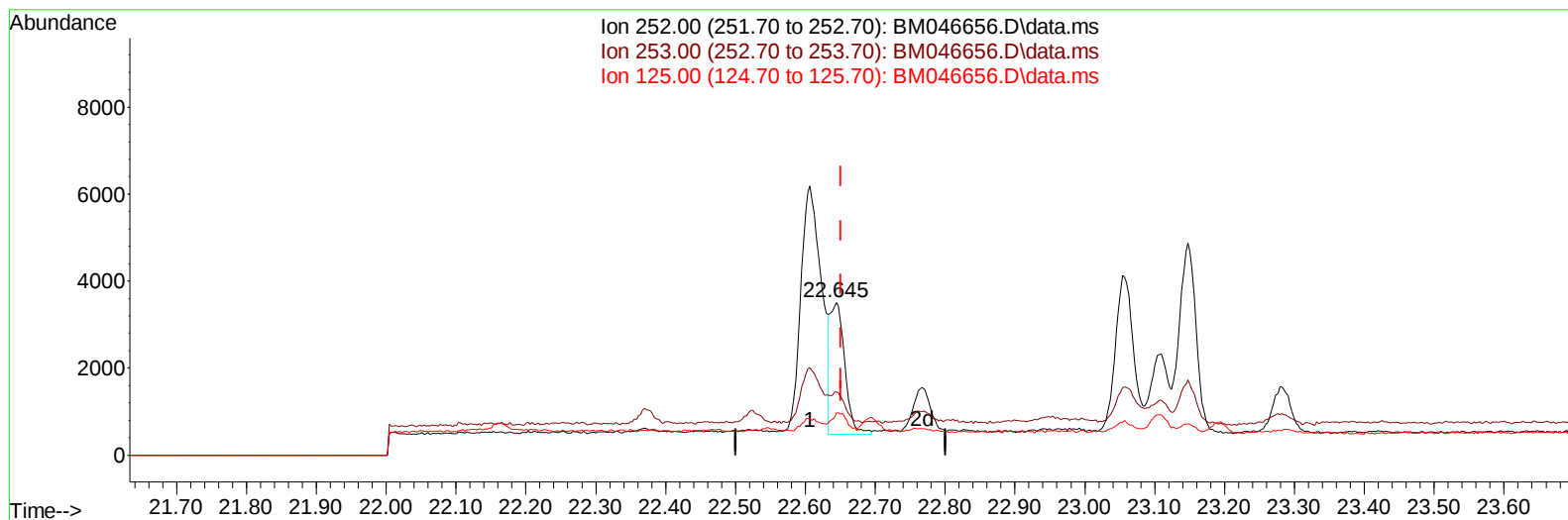
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
Data File : BM046656.D  
Acq On : 17 Jul 2024 05:54  
Operator : MA/JU  
Sample : P3100-06  
Misc :  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4BW2

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/18/2024  
Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 17 06:24:41 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 08:57:27 2024  
Response via : Initial Calibration



TIC: BM046656.D\data.ms

## (25) Benzo(k)fluoranthene

22.645min (-0.006) 0.10 ng/u1 m

response 4331

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 252.00 | 100.00 | 100.00 |
| 253.00 | 28.00  | 41.50# |
| 125.00 | 8.70   | 27.68# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071524\  
 Data File : BM046656.D  
 Acq On : 17 Jul 2024 05:54  
 Operator : MA/JU  
 Sample : P3100-06  
 Misc :  
 ALS Vial : 69 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4BW2

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/18/2024  
 Supervised By :mohammad ahmed 07/18/2024

Quant Time: Jul 17 06:24:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM071024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 08:57:27 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | Q   | Ion | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|-----|-----|----------|-------|--------|----------|
| -----                       |        |     |     |          |       |        |          |
| Internal Standards          |        |     |     |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.497  | 152 |     | 3018     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.254 | 136 |     | 8199     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.141 | 164 |     | 5454     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.896 | 188 |     | 12532m   | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.099 | 240 |     | 10777    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.238 | 264 |     | 11164m   | 0.400 | ng/ul  | 0.00     |
|                             |        |     |     |          |       |        |          |
| System Monitoring Compounds |        |     |     |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.113  | 96  |     | 8206     | 3.309 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.855 | 152 |     | 3222     | 0.244 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 18.932 | 212 |     | 8120     | 0.248 | ng/ul  | 0.00     |
|                             |        |     |     |          |       |        |          |
| Target Compounds            |        |     |     |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.304 | 128 |     | 1036     | 0.050 | ng/ul# | 86       |
| 7) 2-Methylnaphthalene      | 11.926 | 142 |     | 316      | 0.022 | ng/ul  | 96       |
| 10) Acenaphthylene          | 13.859 | 152 |     | 1258     | 0.051 | ng/ul# | 91       |
| 11) Acenaphthene            | 14.201 | 153 |     | 463      | 0.028 | ng/ul  | 95       |
| 12) Fluorene                | 15.196 | 166 |     | 502      | 0.024 | ng/ul# | 81       |
| 15) Phenanthrene            | 16.934 | 178 |     | 10312    | 0.288 | ng/ul  | 99       |
| 16) Anthracene              | 17.027 | 178 |     | 1985     | 0.057 | ng/ul# | 91       |
| 19) Fluoranthene            | 18.960 | 202 |     | 16803    | 0.380 | ng/ul# | 99       |
| 20) Pyrene                  | 19.327 | 202 |     | 15125m   | 0.316 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.084 | 228 |     | 7072     | 0.148 | ng/ul  | 94       |
| 22) Chrysene                | 21.134 | 228 |     | 8415     | 0.182 | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.607 | 252 |     | 11715m   | 0.263 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.645 | 252 |     | 4331m    | 0.099 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.147 | 252 |     | 7307     | 0.199 | ng/ul# | 89       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.353 | 276 |     | 6676     | 0.120 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 25.363 | 278 |     | 1625     | 0.037 | ng/ul# | 15       |
| 29) Benzo(g,h,i)perylene    | 25.993 | 276 |     | 6443     | 0.145 | ng/ul# | 94       |
| -----                       |        |     |     |          |       |        |          |

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

