

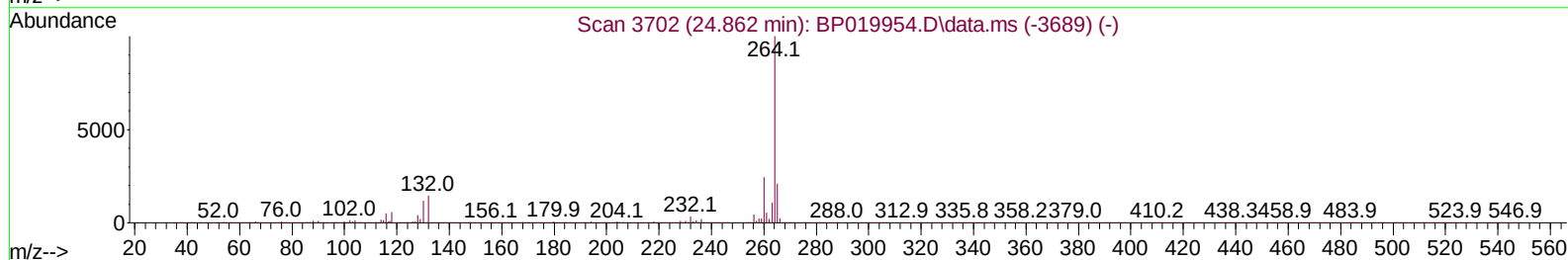
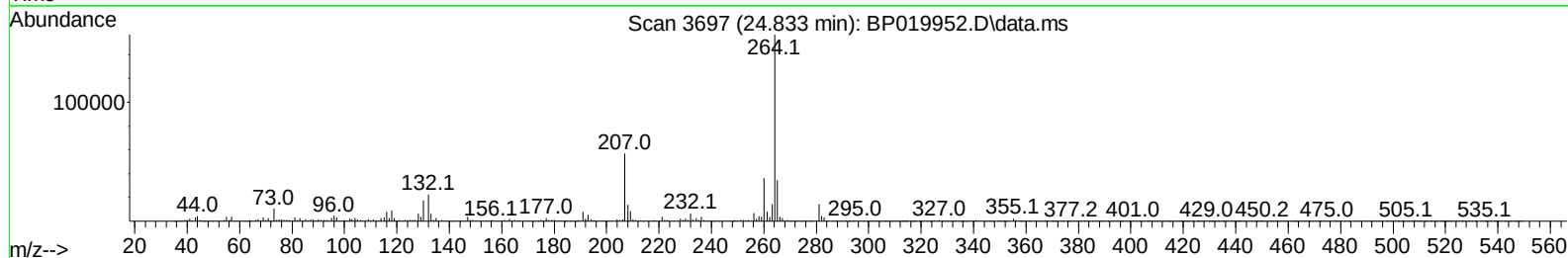
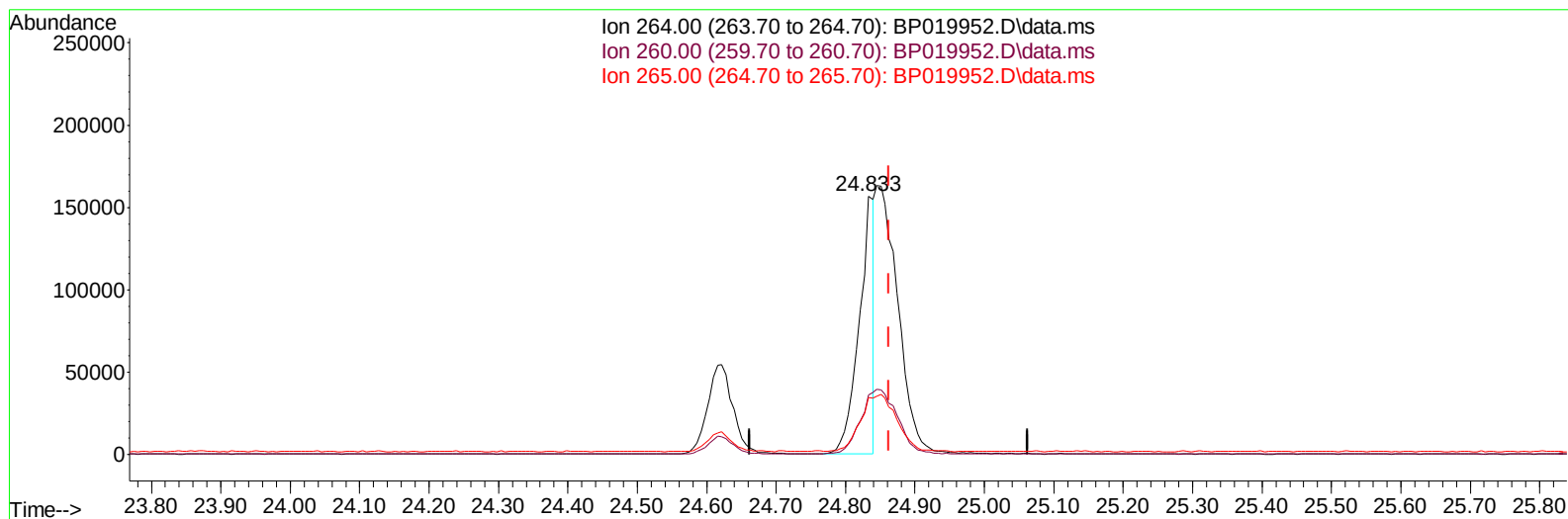
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SST00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:53:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

(88) Perylene-d12 (I)

24.833min (-0.029) 20.00 ng/ul

response 232496

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 24.30  | 23.01  |
| 265.00 | 21.80  | 22.03  |
| 0.00   | 0.00   | 0.00   |

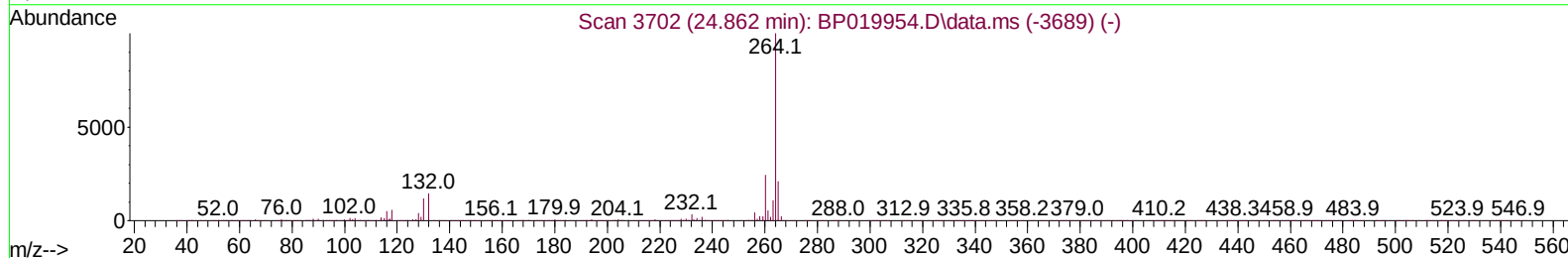
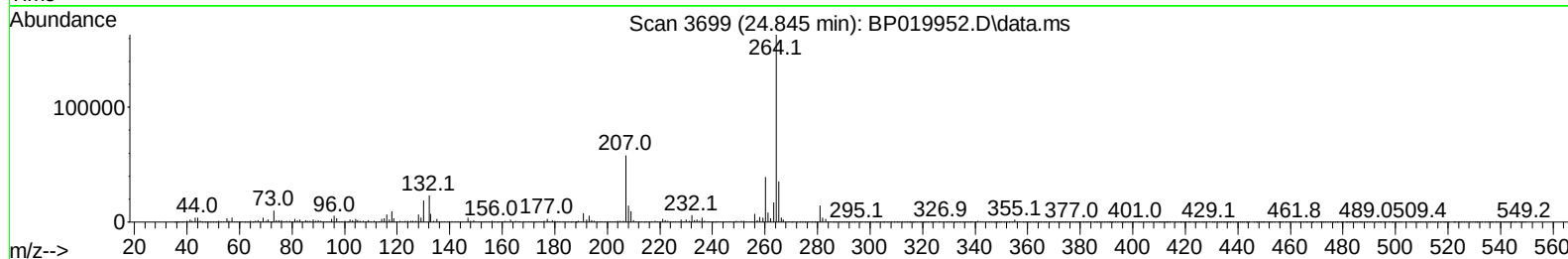
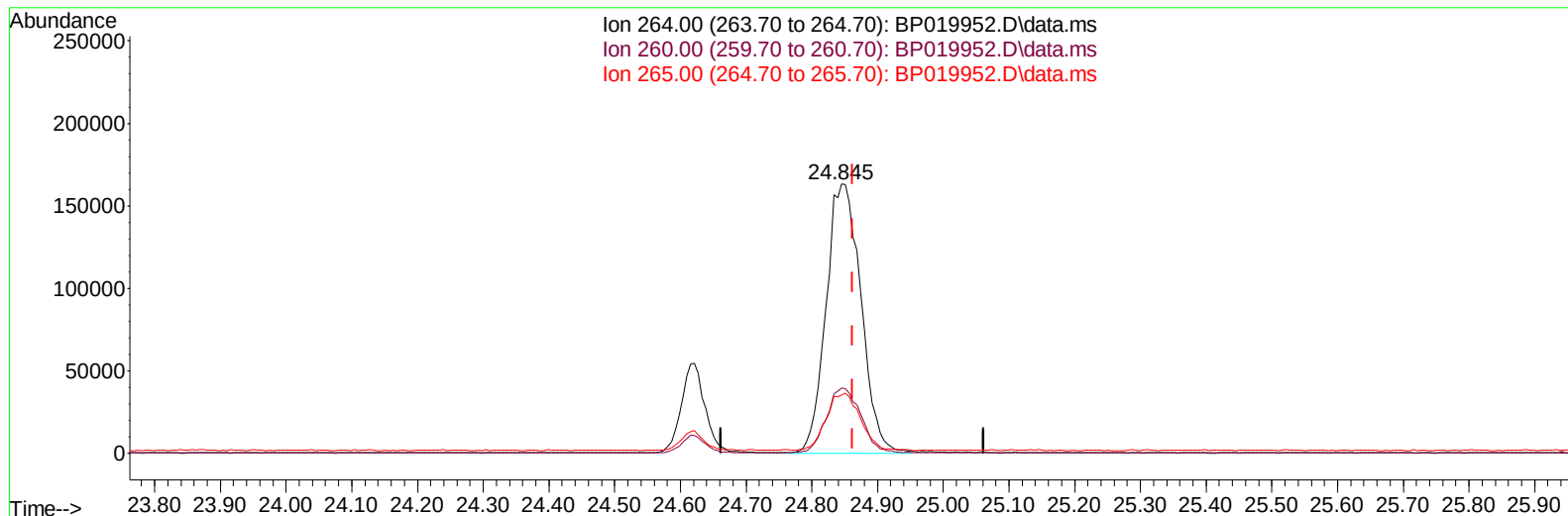
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SST00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:53:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

(88) Perylene-d12 (I)

24.845min (-0.017) 20.00 ng/ul m

response 601330

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100.00 | 100.00 |
| 260.00 | 24.30  | 24.21  |
| 265.00 | 21.80  | 21.69  |
| 0.00   | 0.00   | 0.00   |

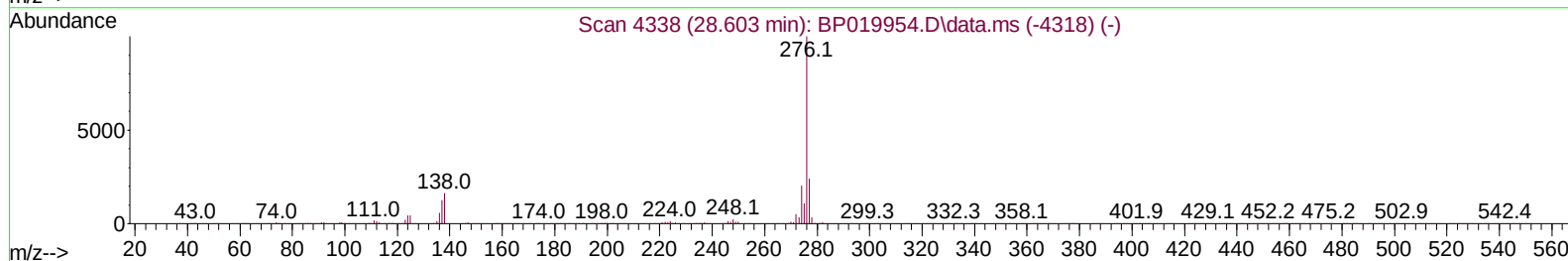
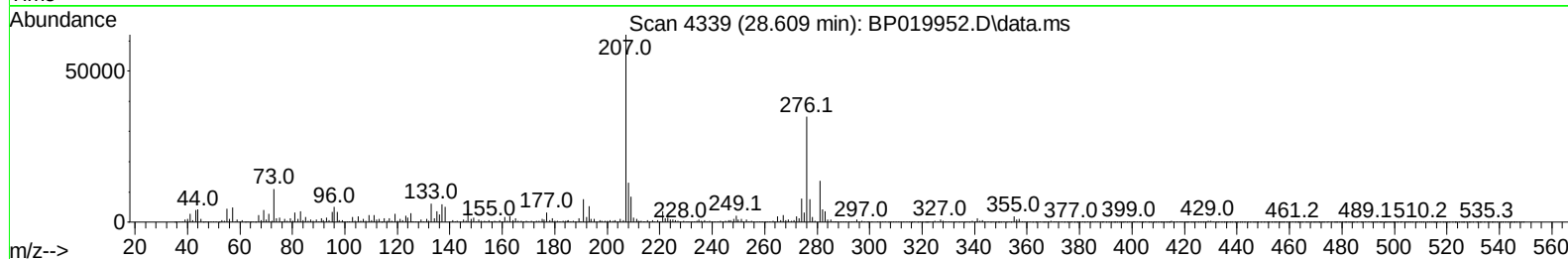
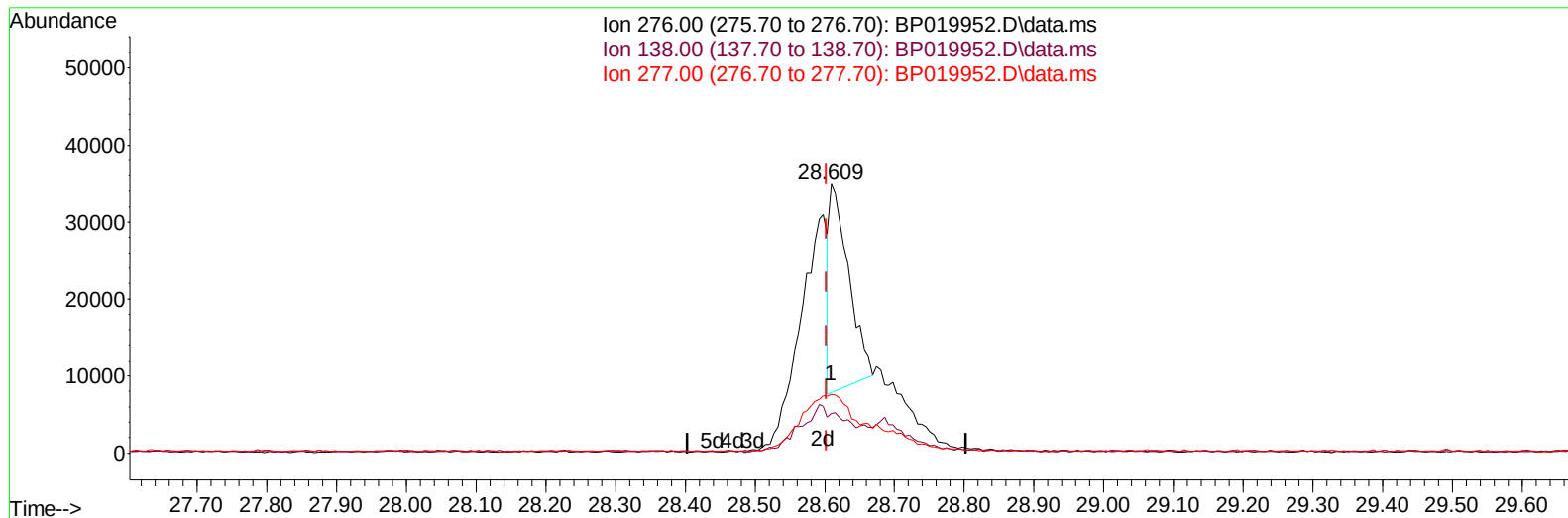
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SSTD00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

(94) Indeno(1,2,3-cd)pyrene

28.609min (+ 0.006) 1.17 ng/u1

response 50391

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 16.40  | 14.72  |
| 277.00 | 24.40  | 21.92  |
| 0.00   | 0.00   | 0.00   |

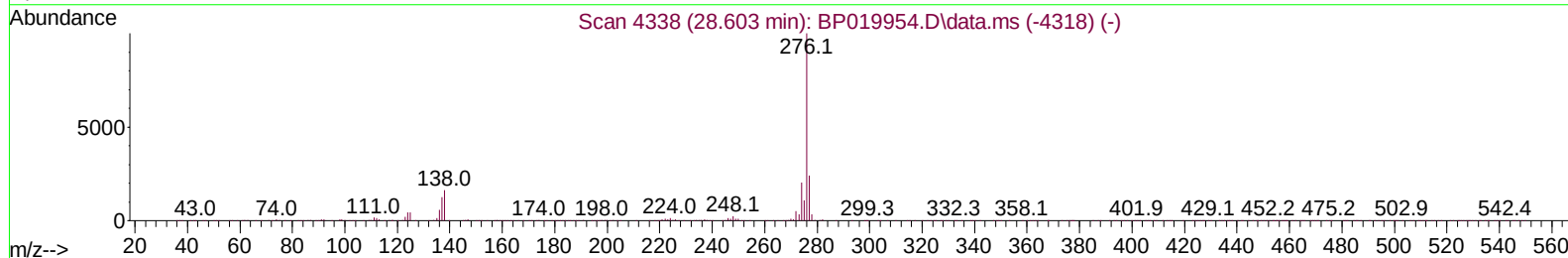
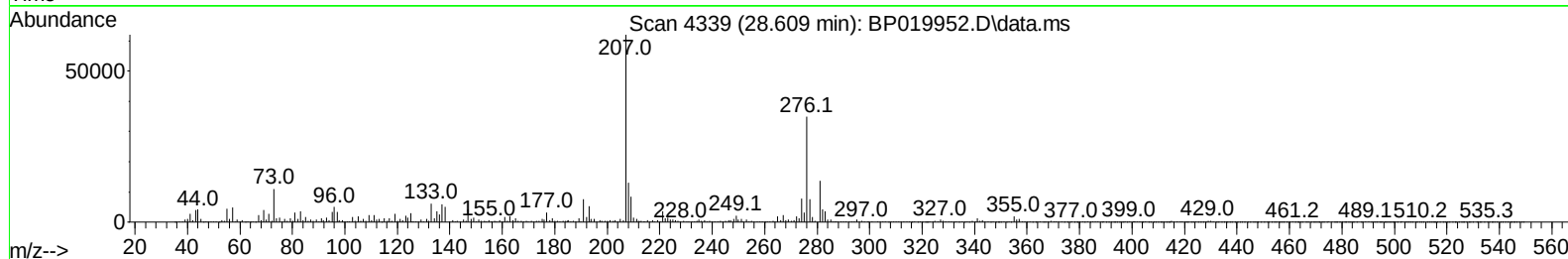
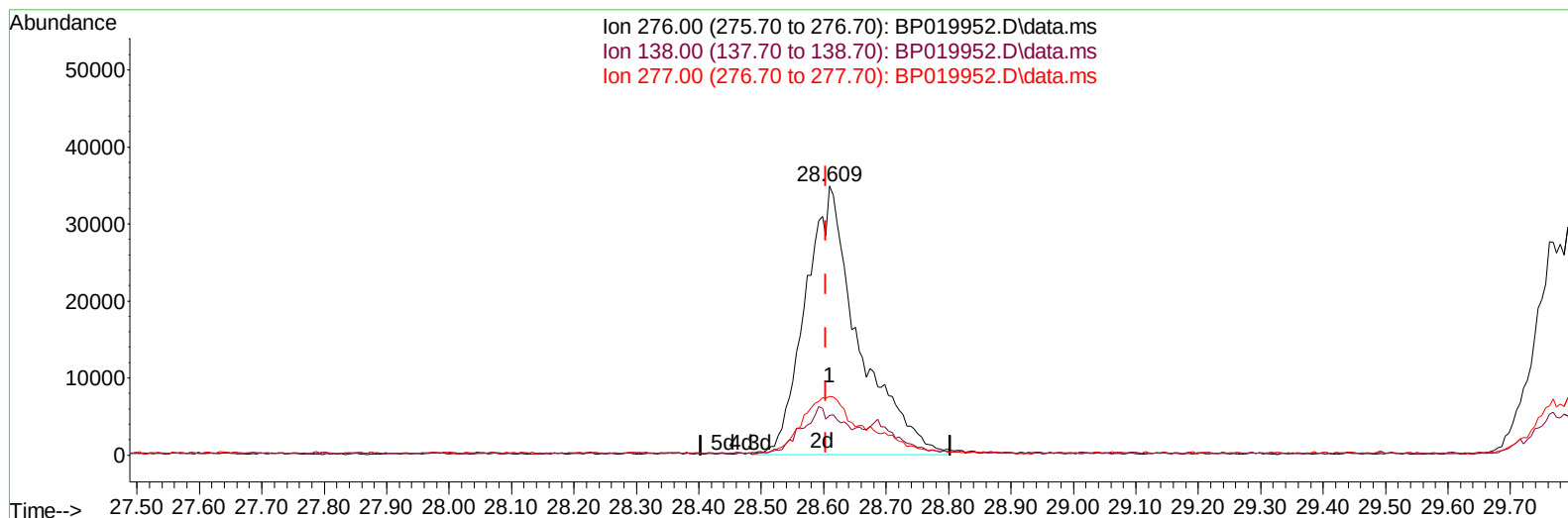
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
 Data File : BP019952.D  
 Acq On : 22 Mar 2024 10:44  
 Operator : MA/JU  
 Sample : SSTD00582  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 22 15:51:30 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
 Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

**(94) Indeno(1,2,3-cd)pyrene**

**28.609min (+ 0.006) 4.82 ng/ul m**

**response 206956**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 16.40  | 14.72  |
| 277.00 | 24.40  | 21.92  |
| 0.00   | 0.00   | 0.00   |

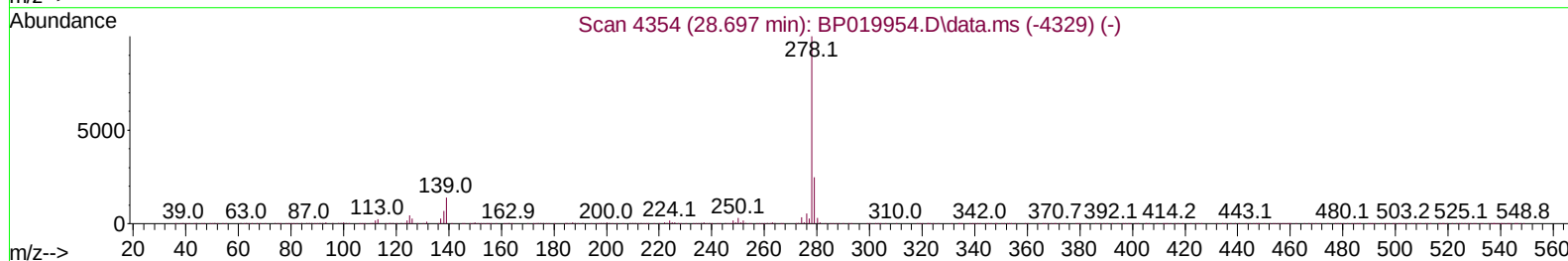
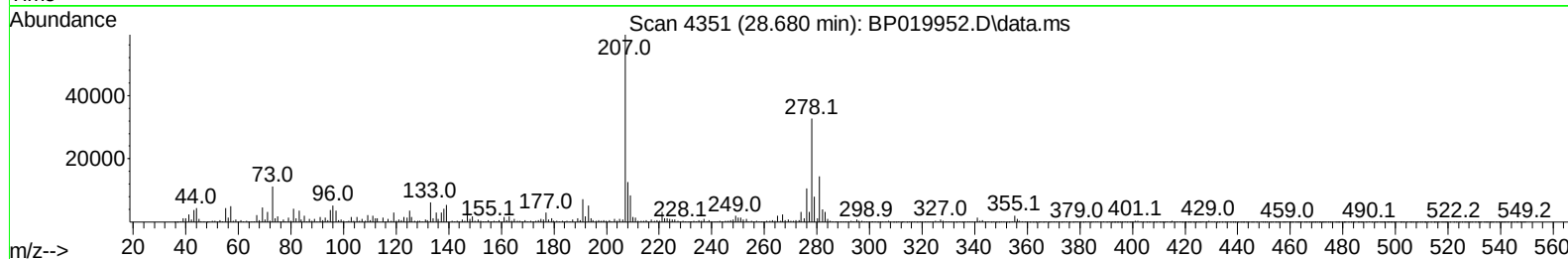
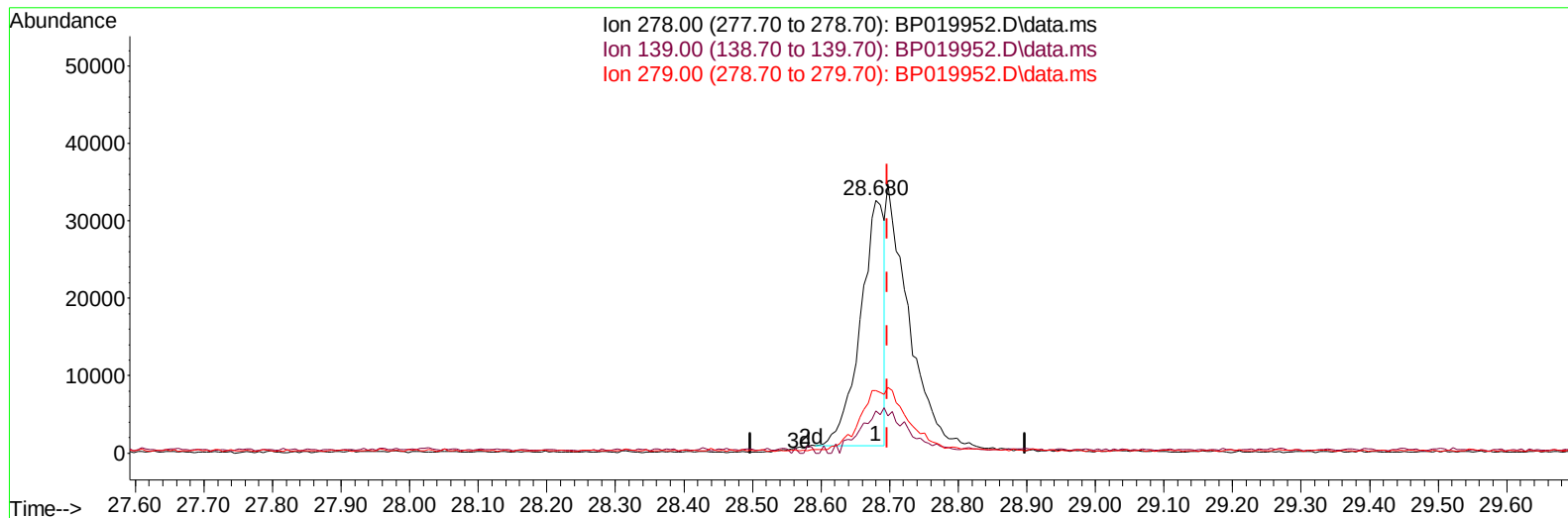
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SSTD00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

**(95) Dibenzo(a,h)anthracene**

**28.680min (-0.017) 2.20 ng/u1**

**response 76674**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 14.30  | 16.63  |
| 279.00 | 24.60  | 24.72  |
| 0.00   | 0.00   | 0.00   |

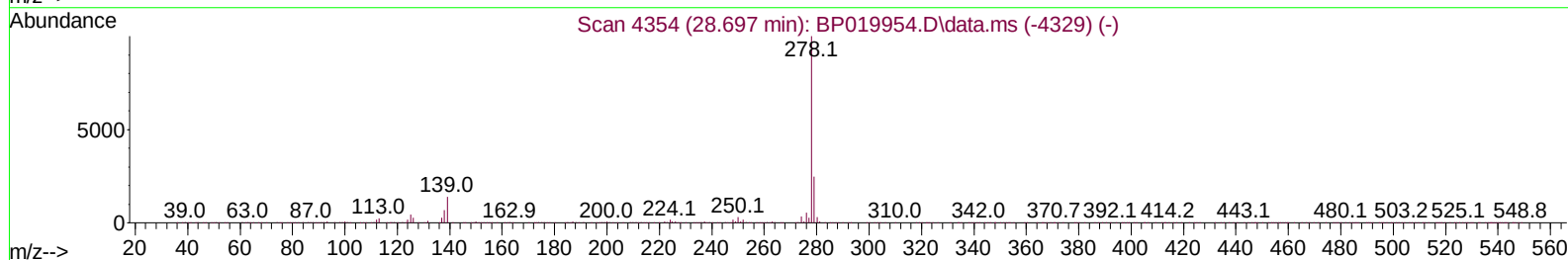
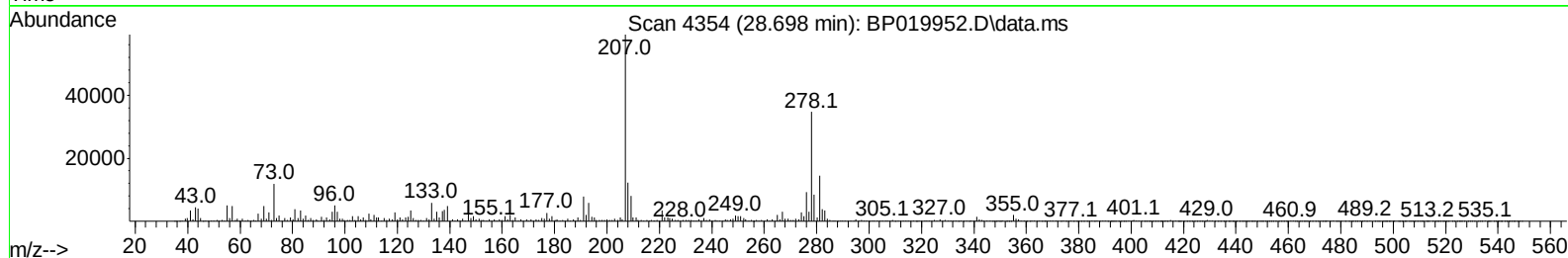
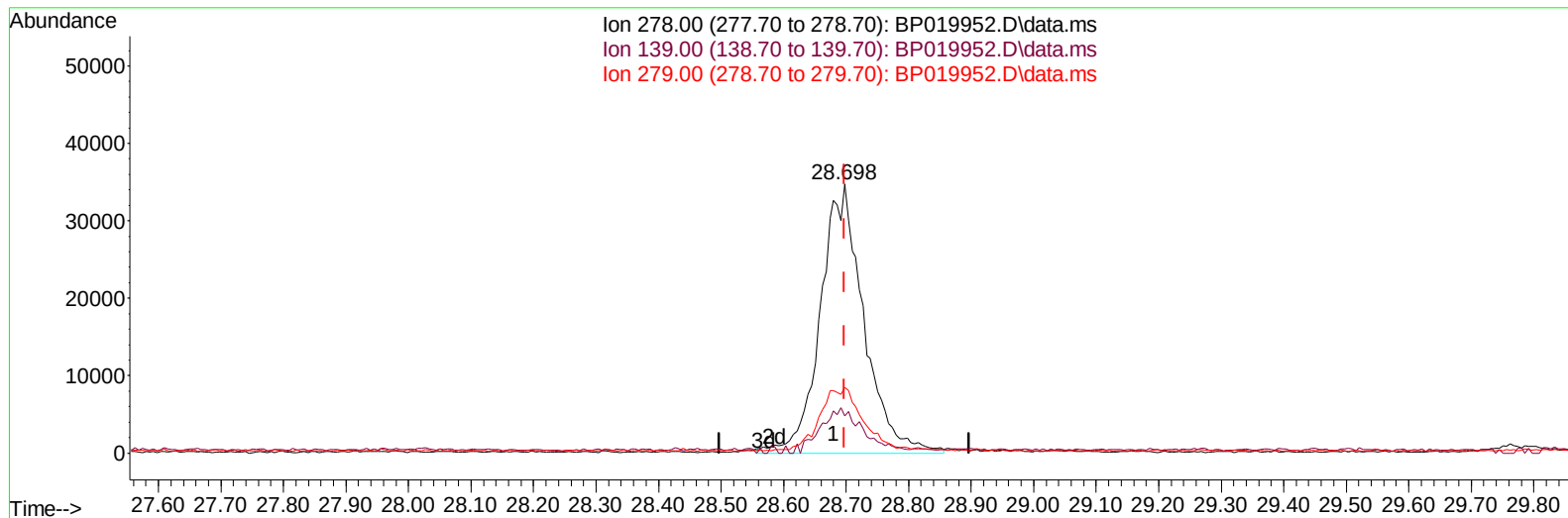
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
 Data File : BP019952.D  
 Acq On : 22 Mar 2024 10:44  
 Operator : MA/JU  
 Sample : SSTD00582  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 22 15:51:30 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
 Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

**(95) Dibenzo(a,h)anthracene**

**28.698min (+ 0.000) 4.79 ng/ul m**

**response 167384**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 278.00 | 100.00 | 100.00 |
| 139.00 | 14.30  | 13.71  |
| 279.00 | 24.60  | 24.49  |
| 0.00   | 0.00   | 0.00   |

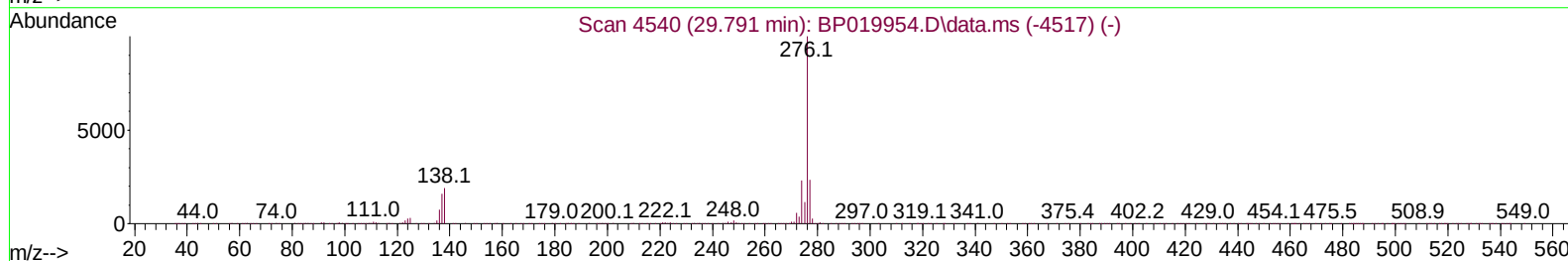
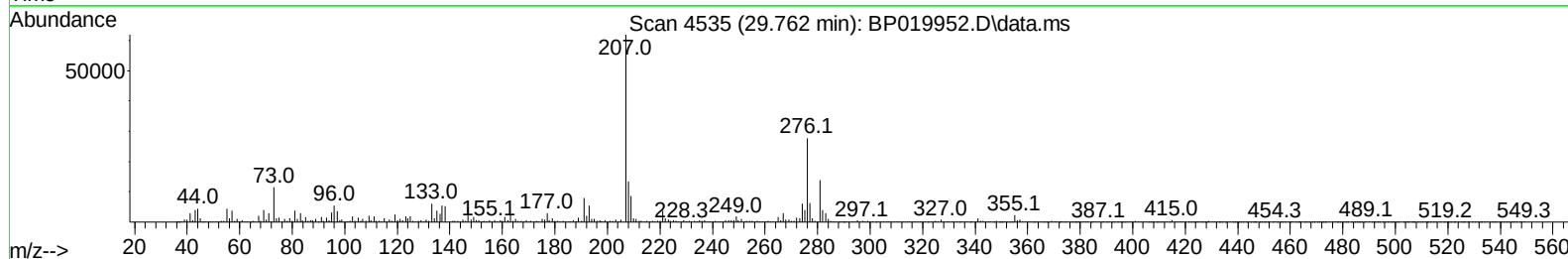
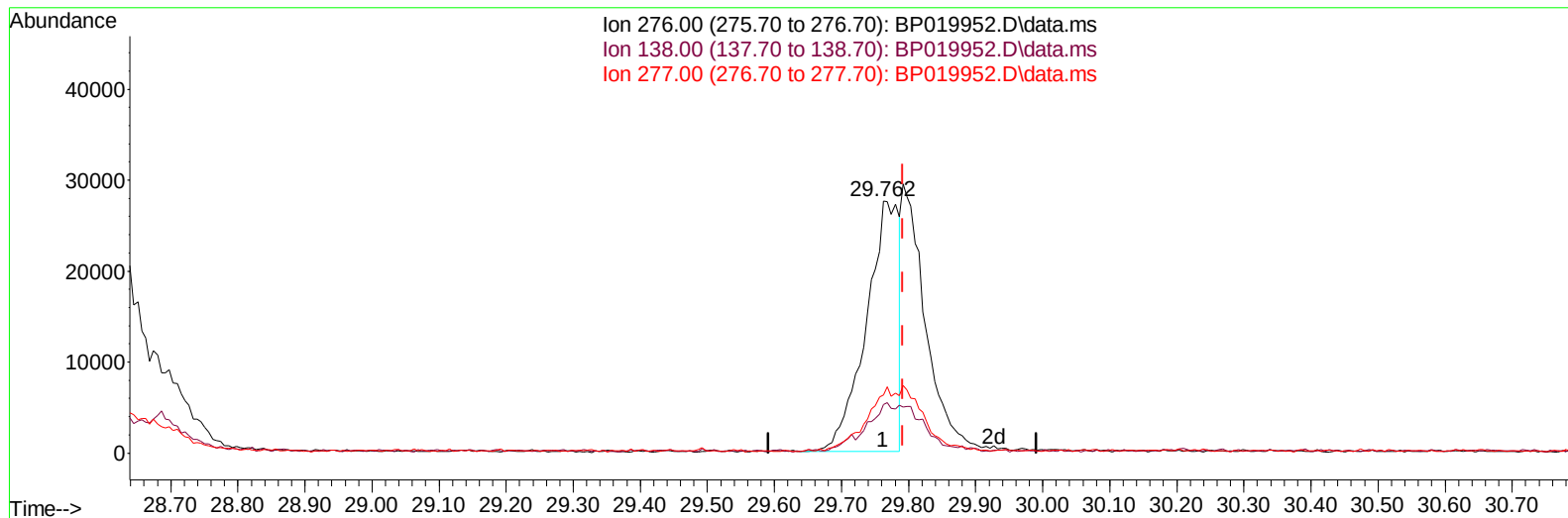
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SSTD00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

(96) Benzo(g,h,i)perylene

29.762min (-0.029) 2.68 ng/u1

response 93106

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 19.32  |
| 277.00 | 23.50  | 23.05  |
| 0.00   | 0.00   | 0.00   |

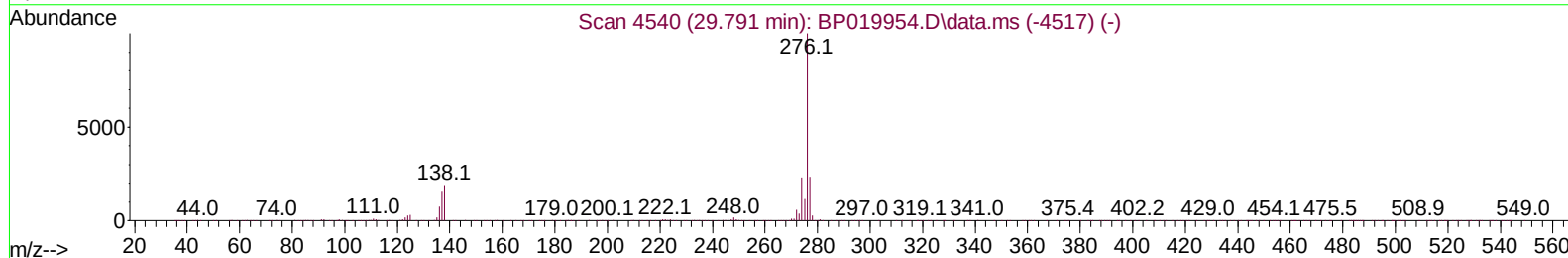
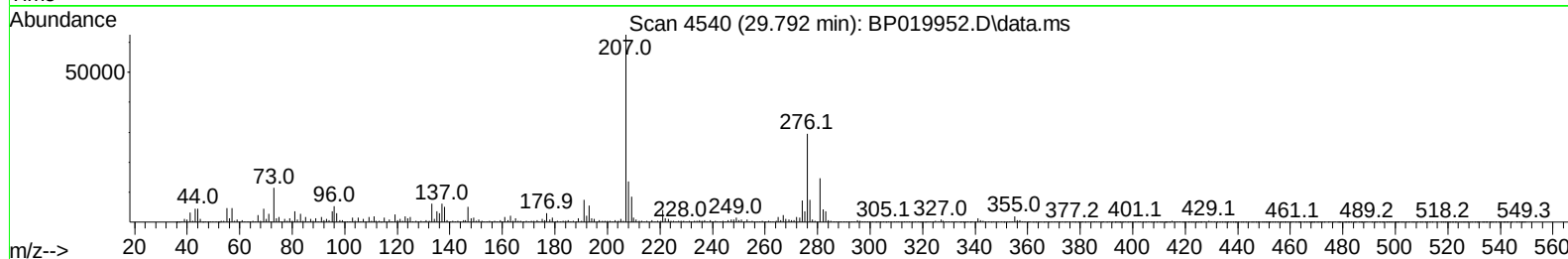
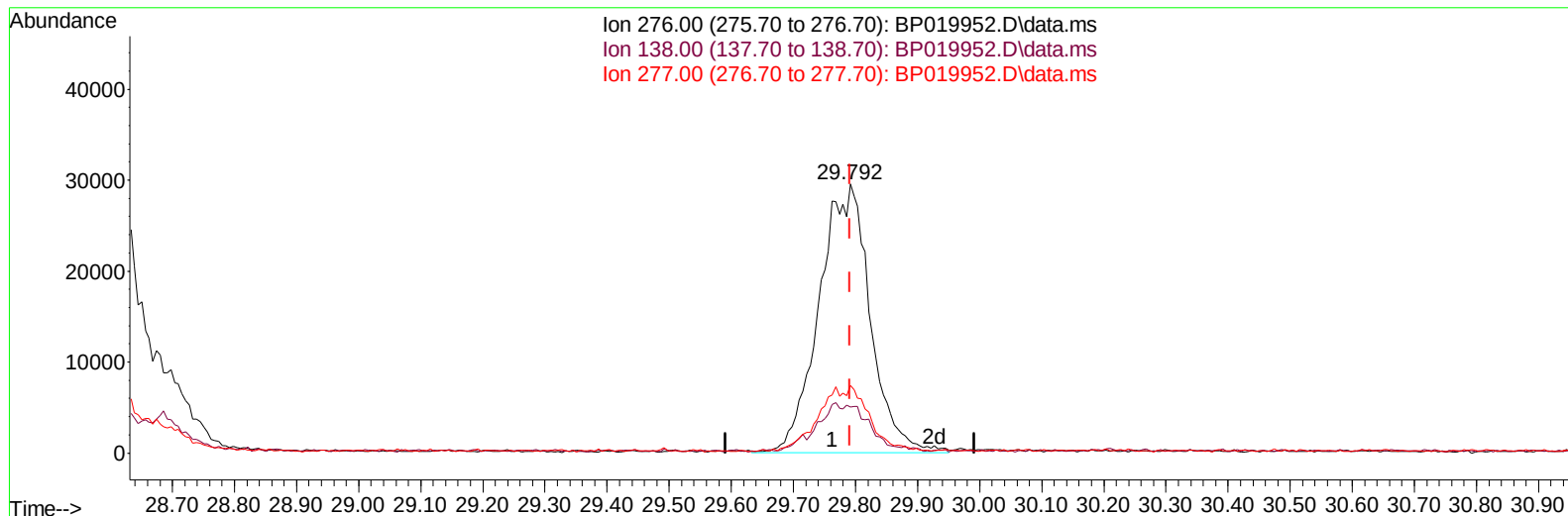
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
Data File : BP019952.D  
Acq On : 22 Mar 2024 10:44  
Operator : MA/JU  
Sample : SSTD00582  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:56:30 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 22 15:51:30 2024  
Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
Supervised By :mohammad ahmed 03/26/2024



TIC: BP019952.D\data.ms

(96) Benzo(g,h,i)perylene

29.792min (+ 0.000) 4.84 ng/ul m

response 168141

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 19.40  | 17.22  |
| 277.00 | 23.50  | 25.13  |
| 0.00   | 0.00   | 0.00   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
 Data File : BP019952.D  
 Acq On : 22 Mar 2024 10:44  
 Operator : MA/JU  
 Sample : SSTD00582  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:57:35 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 22 15:51:30 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
 Supervised By :mohammad ahmed 03/26/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.628  | 152  | 121756   | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.375 | 136  | 477043   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.257 | 164  | 300810   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.087 | 188  | 614507   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.557 | 240  | 524567   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.845 | 264  | 601330m  | 20.000 | ng/ul  | -0.02    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.246  | 96   | 5007     | 1.802  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/ul  |          |
| 7) Phenol-d5                  | 0.000  | 99   | 0d       | 0.000  | ng/ul  |          |
| 9) Bis-(2-Chloroethyl)eth...  | 0.000  | 67   | 0d       | 0.000  | ng/ul  |          |
| 11) 2-Chlorophenol-d4         | 7.169  | 132  | 34255    | 4.645  | ng/ul  | 0.01     |
| 15) 4-Methylphenol-d8         | 0.000  | 113  | 0d       | 0.000  | ng/ul  |          |
| 21) Nitrobenzene-d5           | 8.775  | 128  | 16975    | 4.643  | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.481  | 143  | 18053    | 4.413  | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.016 | 165  | 33555    | 4.491  | ng/ul  | 0.01     |
| 31) 4-Chloroaniline-d4        | 0.000  | 131  | 0d       | 0.000  | ng/ul  |          |
| 46) Dimethylphthalate-d6      | 13.669 | 166  | 103709   | 4.917  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 13.951 | 160  | 120961   | 4.910  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d       | 0.000  | ng/ul  |          |
| 60) Fluorene-d10              | 15.287 | 176  | 87866    | 4.891  | ng/ul  | 0.01     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/ul  |          |
| 73) Anthracene-d10            | 17.198 | 188  | 128636   | 4.729  | ng/ul  | 0.01     |
| 81) Pyrene-d10                | 19.598 | 212  | 147986   | 4.808  | ng/ul  | 0.01     |
| 92) Benzo(a)pyrene-d12        | 24.621 | 264  | 135349   | 4.682  | ng/ul  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.281  | 88   | 6514     | 2.054  | ng/uL  | 86       |
| 12) 2-Chlorophenol            | 7.199  | 128  | 36181    | 4.655  | ng/ul  | 95       |
| 17) N-Nitroso-di-n-propyla... | 8.422  | 70   | 33863    | 4.738  | ng/ul  | 99       |
| 19) Hexachloroethane          | 8.669  | 117  | 17295    | 4.791  | ng/ul  | 93       |
| 22) Nitrobenzene              | 8.822  | 77   | 48695    | 4.675  | ng/ul  | 98       |
| 23) Isophorone                | 9.334  | 82   | 91070    | 4.691  | ng/ul  | 99       |
| 25) 2-Nitrophenol             | 9.510  | 139  | 18931    | 4.439  | ng/ul  | 99       |
| 26) 2,4-Dimethylphenol        | 9.575  | 107  | 44188    | 4.746  | ng/ul  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 9.810  | 93   | 52901    | 4.660  | ng/ul  | 97       |
| 29) 2,4-Dichlorophenol        | 10.052 | 162  | 34567    | 4.729  | ng/ul  | 97       |
| 30) Naphthalene               | 10.422 | 128  | 119863   | 4.898  | ng/ul  | 99       |
| 33) Hexachlorobutadiene       | 10.687 | 225  | 28232    | 4.901  | ng/ul  | 99       |
| 35) 4-Chloro-3-methylphenol   | 11.693 | 107  | 35745    | 4.402  | ng/ul  | 98       |
| 36) 2-Methylnaphthalene       | 12.046 | 142  | 79683    | 4.890  | ng/ul  | 96       |
| 37) 1-Methylnaphthalene       | 12.269 | 142  | 78815    | 4.836  | ng/ul# | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.416 | 216  | 47401    | 4.766  | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.669 | 196  | 27928    | 4.571  | ng/ul  | 96       |
| 42) 2,4,5-Trichlorophenol     | 12.757 | 196  | 27435    | 4.341  | ng/ul  | 99       |
| 43) 1,1'-Biphenyl             | 13.069 | 154  | 107174   | 4.920  | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.116 | 162  | 87582    | 4.985  | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.351 | 65   | 23967    | 4.331  | ng/ul  | 92       |
| 47) Dimethylphthalate         | 13.710 | 163  | 101589   | 4.772  | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 13.846 | 165  | 19563    | 4.526  | ng/ul  | 97       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
 Data File : BP019952.D  
 Acq On : 22 Mar 2024 10:44  
 Operator : MA/JU  
 Sample : SSTD00582  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD005602

## Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/26/2024  
 Supervised By :mohammad ahmed 03/26/2024

Quant Time: Mar 22 15:57:35 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 22 15:51:30 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 50) Acenaphthylene            | 13.981 | 152  | 134899   | 4.896 | ng/ul  | 99       |
| 52) Acenaphthene              | 14.322 | 153  | 91290    | 4.988 | ng/ul  | 97       |
| 56) Dibenzofuran              | 14.669 | 168  | 123960   | 4.987 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 14.669 | 165  | 26129    | 4.422 | ng/ul# | 93       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.904 | 232  | 25021    | 4.617 | ng/ul# | 96       |
| 59) Diethylphthalate          | 15.122 | 149  | 100902   | 4.780 | ng/ul  | 99       |
| 61) Fluorene                  | 15.334 | 166  | 100575   | 4.961 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.334 | 204  | 54532    | 5.022 | ng/ul  | 95       |
| 67) N-Nitrosodiphenylamine    | 15.569 | 169  | 80697    | 4.754 | ng/ul  | 95       |
| 68) 4-Bromophenyl-phenylether | 16.251 | 248  | 30894    | 4.632 | ng/ul  | 96       |
| 69) Hexachlorobenzene         | 16.369 | 284  | 35639    | 4.812 | ng/ul  | 96       |
| 72) Phenanthrene              | 17.140 | 178  | 156696   | 4.932 | ng/ul  | 99       |
| 74) Anthracene                | 17.239 | 178  | 156425   | 4.849 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.028 | 216  | 47644    | 4.755 | ng/uL  | 99       |
| 76) Pentachlorobenzene        | 14.581 | 250  | 45010    | 4.851 | ng/uL  | 95       |
| 78) Di-n-butylphthalate       | 18.116 | 149  | 151084   | 4.334 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.245 | 202  | 172315   | 4.767 | ng/ul  | 99       |
| 82) Pyrene                    | 19.622 | 202  | 178666   | 4.755 | ng/ul# | 94       |
| 83) Butylbenzylphthalate      | 20.592 | 149  | 67865    | 4.448 | ng/ul  | 95       |
| 85) Benzo(a)anthracene        | 21.533 | 228  | 175645   | 4.839 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.492 | 149  | 99320    | 4.455 | ng/ul  | 97       |
| 87) Chrysene                  | 21.598 | 228  | 162327   | 4.810 | ng/ul  | 98       |
| 90) Benzo(b)fluoranthene      | 23.810 | 252  | 168538   | 4.778 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.869 | 252  | 171707   | 4.790 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 24.686 | 252  | 164340   | 4.816 | ng/ul# | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.609 | 276  | 206956m  | 4.818 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.698 | 278  | 167384m  | 4.793 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.792 | 276  | 168141m  | 4.842 | ng/ul  |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032224\  
 Data File : BP019952.D  
 Acq On : 22 Mar 2024 10:44  
 Operator : MA/JU  
 Sample : SSTD00582  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SSTD005602

Manual IntegrationsAPPROVED

Quant Time: Mar 22 15:57:35 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP032224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 22 15:51:30 2024  
 Response via : Initial Calibration

Reviewed By :Yogesh Patel 03/26/2024  
 Supervised By :mohammad ahmed 03/26/2024

