

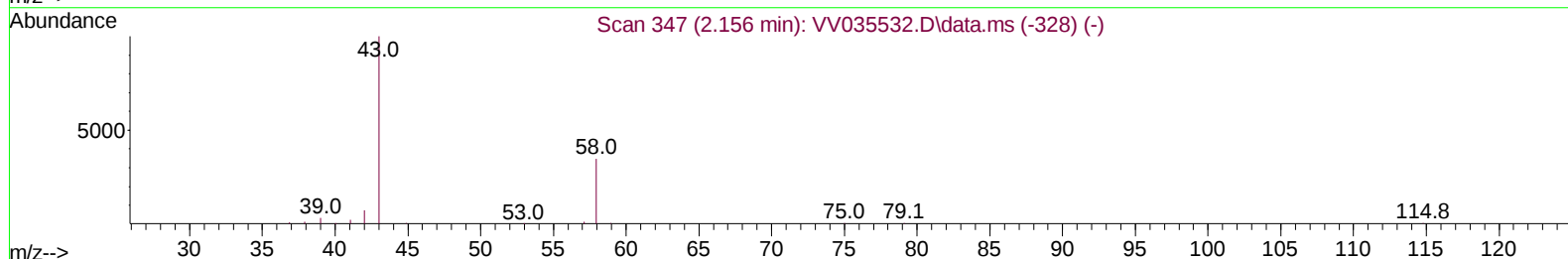
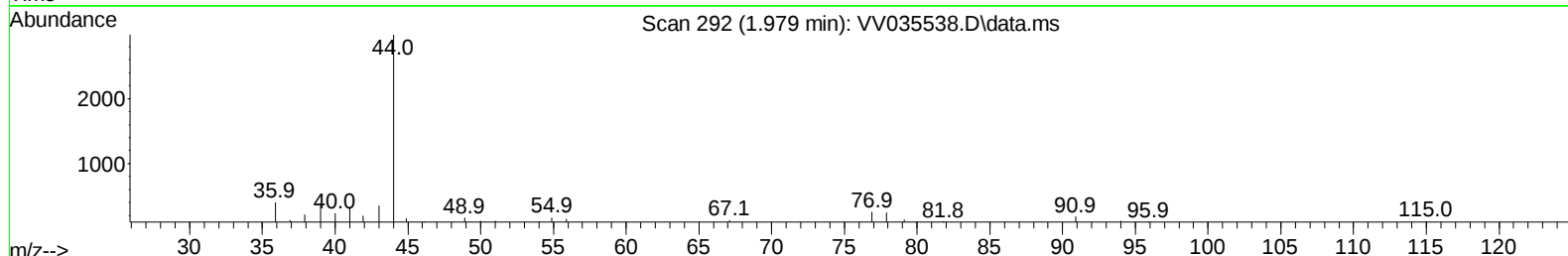
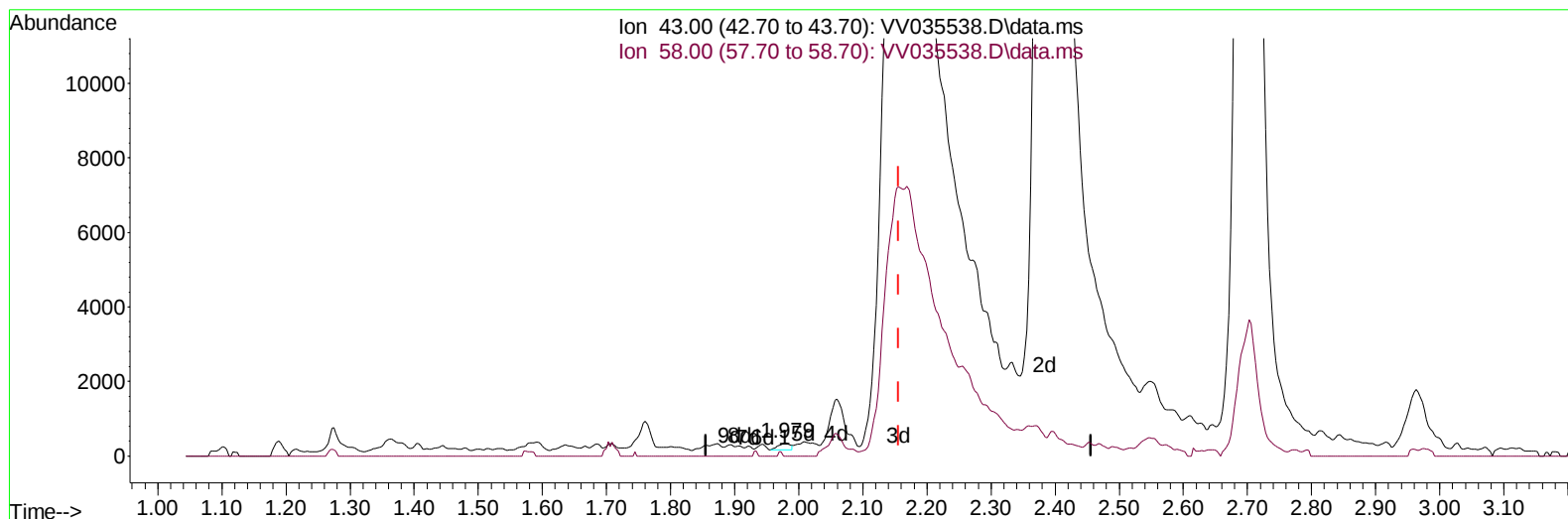
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV050624\  
Data File : VV035538.D  
Acq On : 06 May 2024 16:15  
Operator : SY/MD  
Sample : VSTDICV025  
Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV261

## Manual IntegrationsAPPROVED

Reviewed By :Mahesh Dadoda 05/08/2024  
Supervised By :Semsettin Yesilyurt 05/08/2024

Quant Time: May 08 01:56:43 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 08 01:49:05 2024  
Response via : Initial Calibration



TIC: VV035538.D\data.ms

## (13) Acetone (T)

1.979min (-0.177) 0.07 ug/L

response 225

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 58.00 | 11.40  | 19.11  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

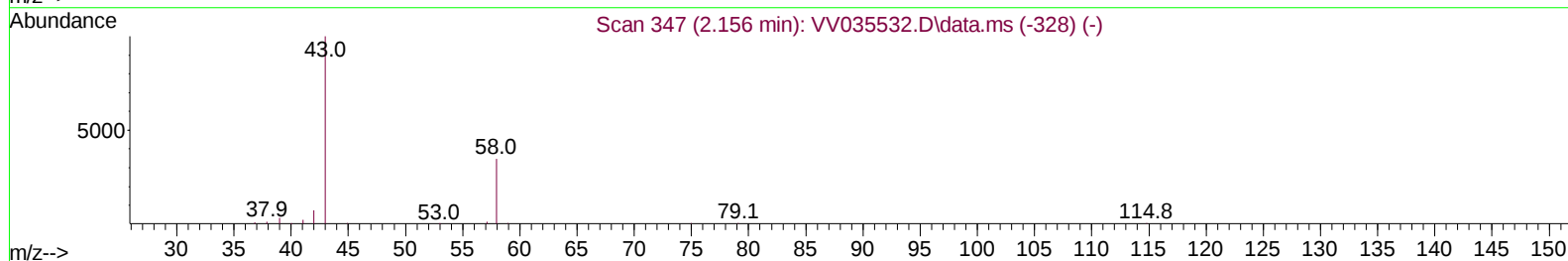
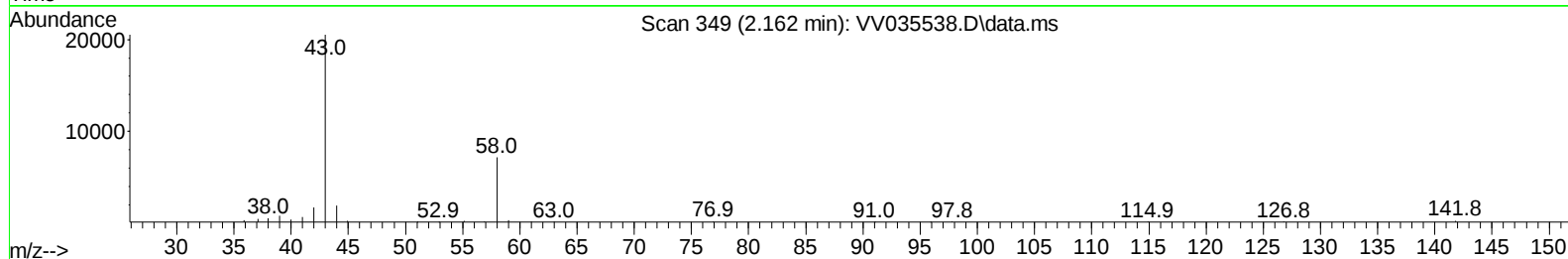
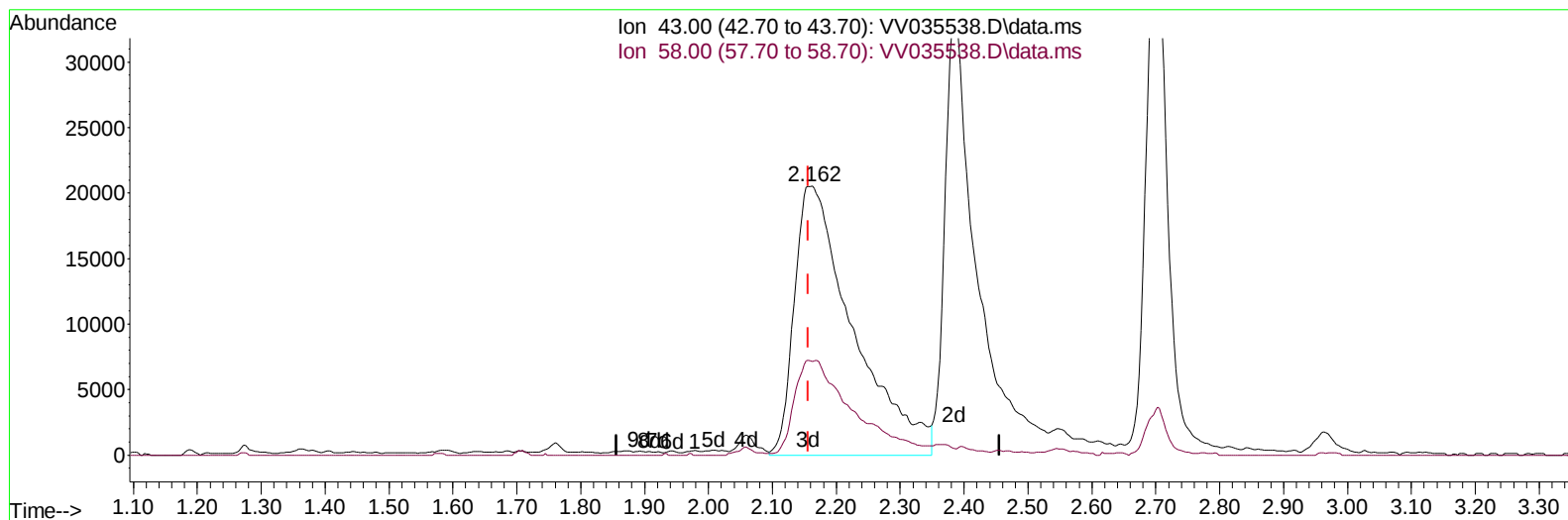
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(13) Acetone (T)

2.162min (+ 0.006) 42.82 ug/L m

response 130680

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 58.00 | 11.40  | 0.03   |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

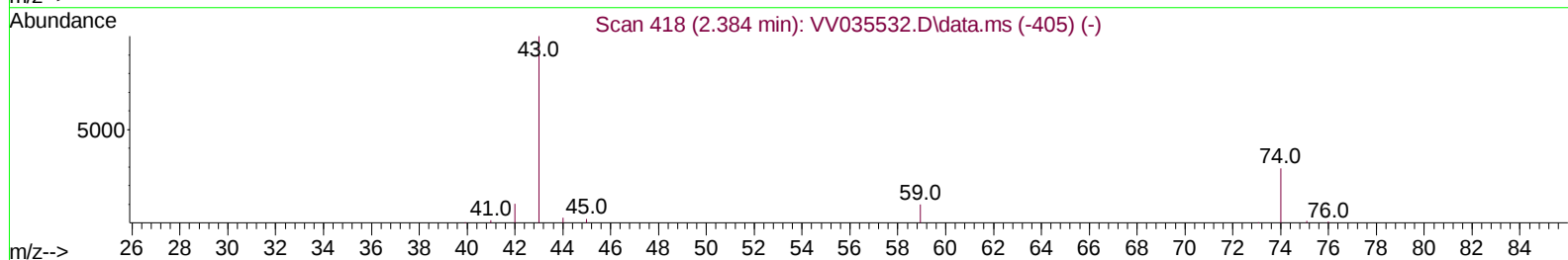
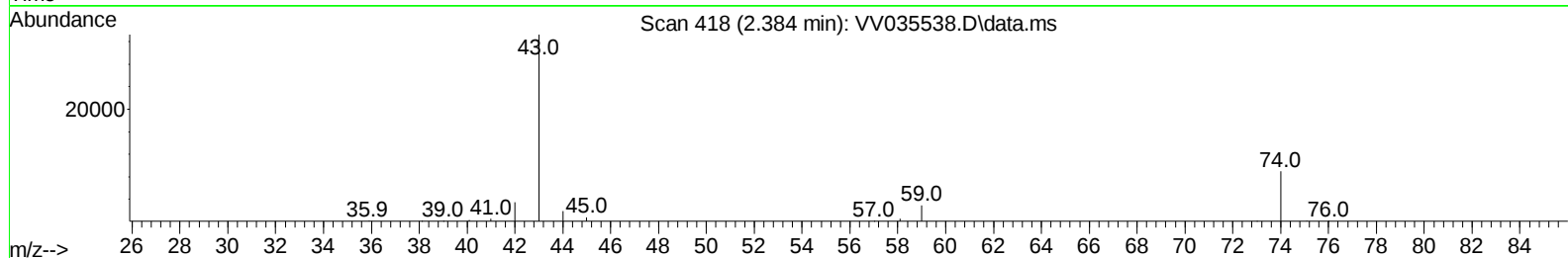
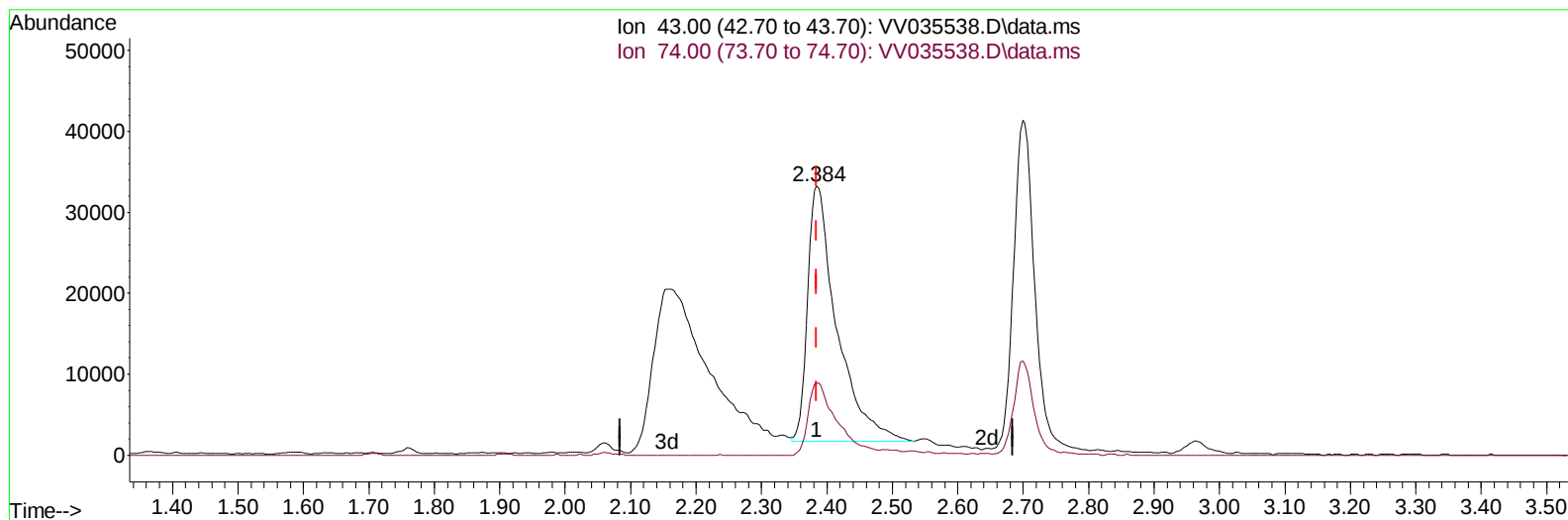
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TIC: VV035538.D\data.ms

(15) Methyl Acetate (T)

2.384min (-0.000) 21.26 ug/L

response 98324

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 74.00 | 23.20  | 27.79  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

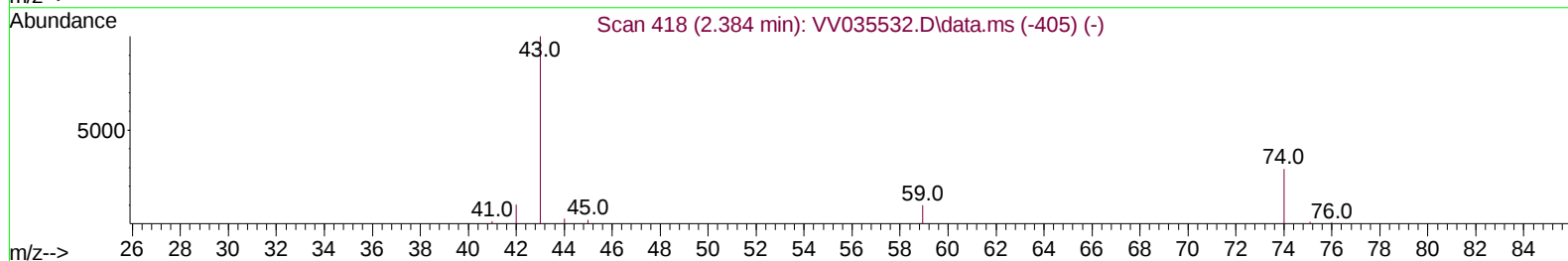
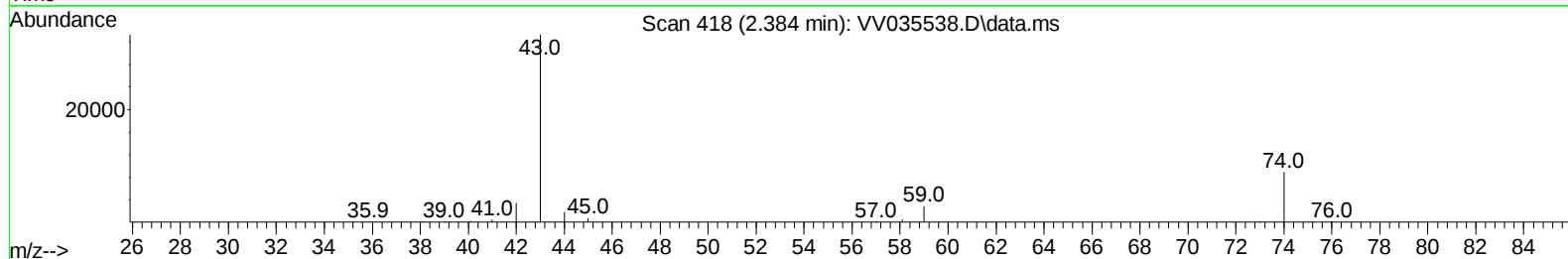
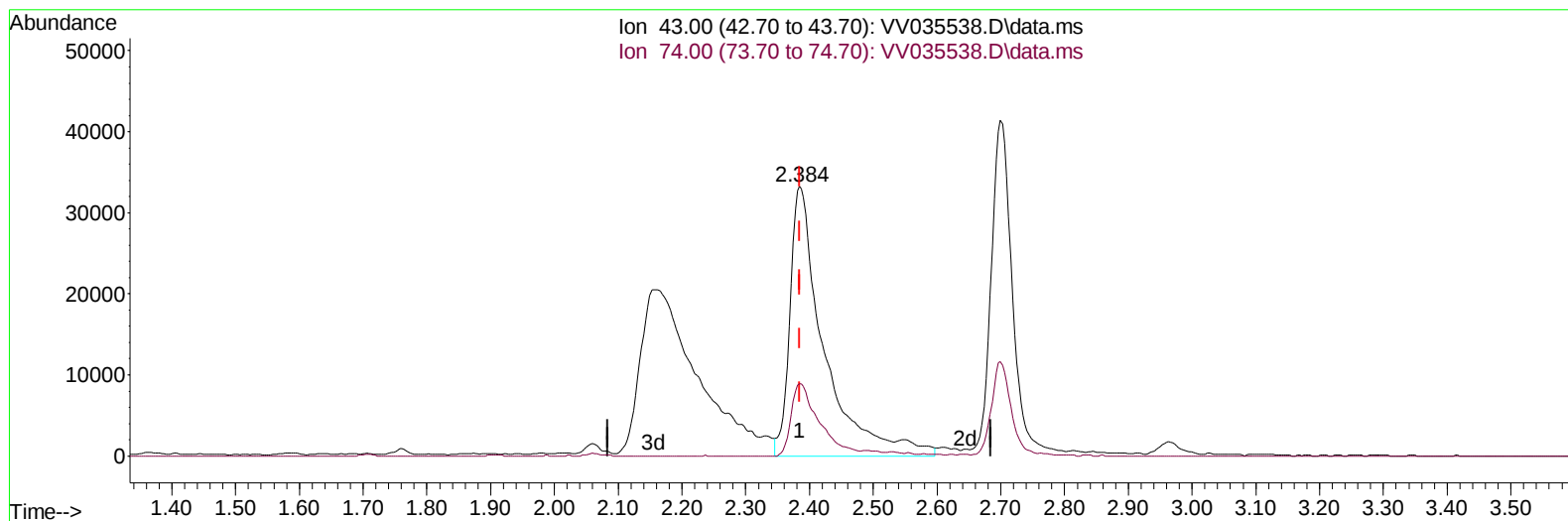
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Instrument :  
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TIC: VV035538.D\data.ms

(15) Methyl Acetate (T)

2.384min (-0.000) 26.62 ug/L m

response 123085

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 74.00 | 23.20  | 22.20  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

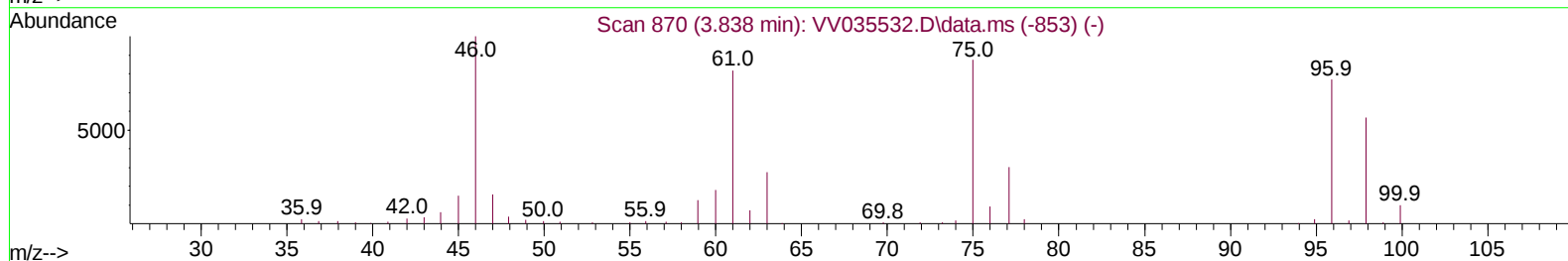
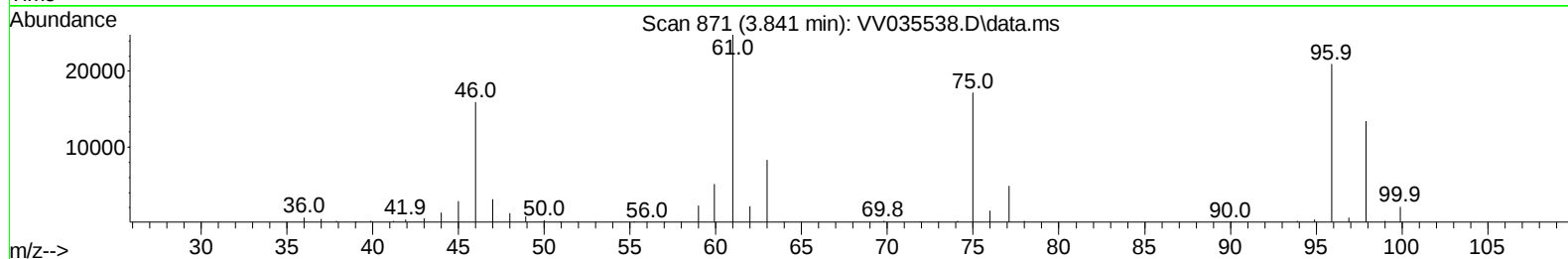
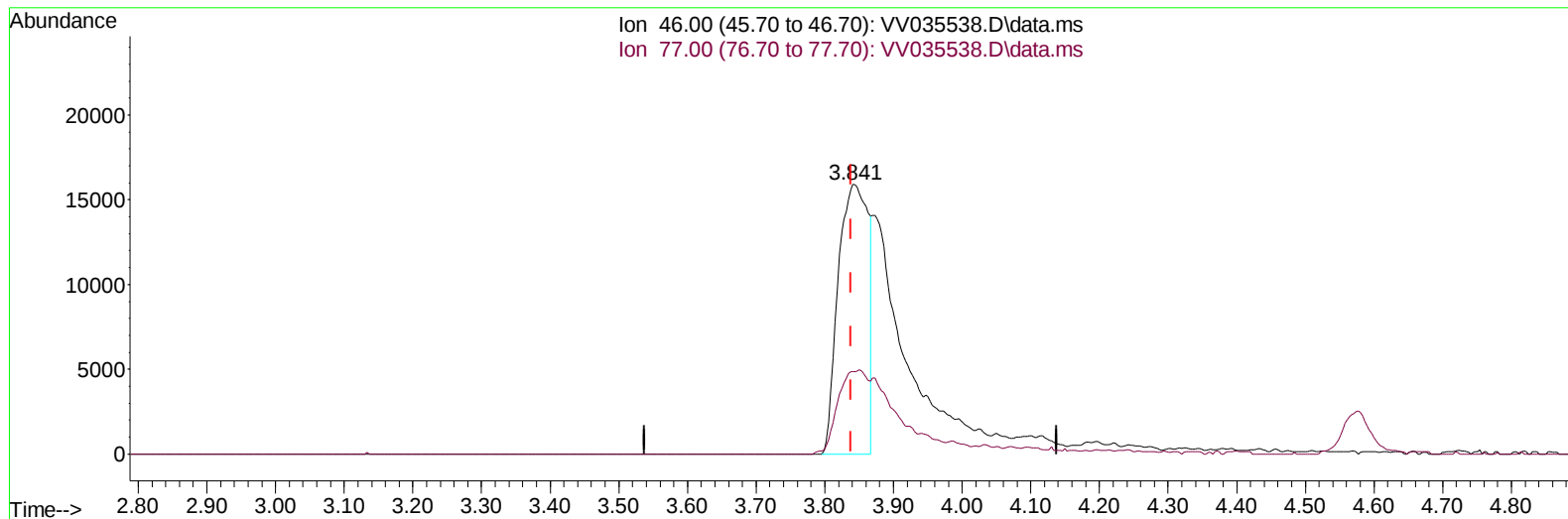
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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
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TIC: VV035538.D\data.ms

(21) 2-Butanone-d5 (S)

3.841min (+ 0.003) 23.05 ug/L

response 48070

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 13.10  | 31.69# |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

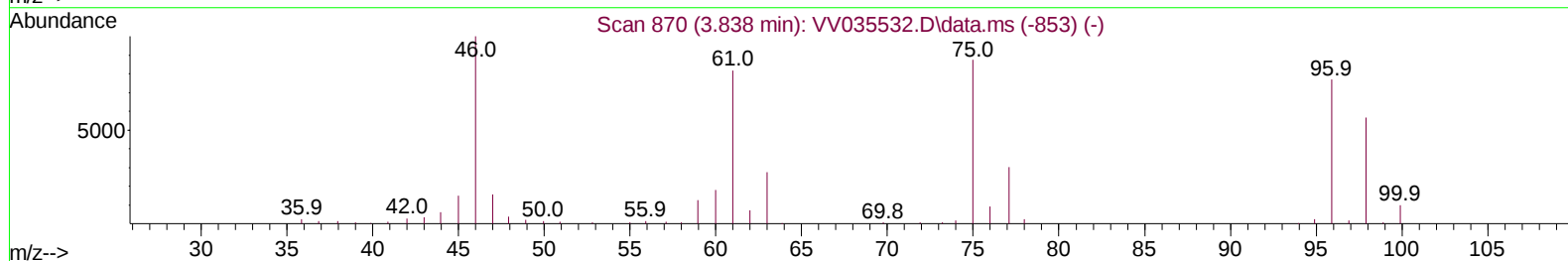
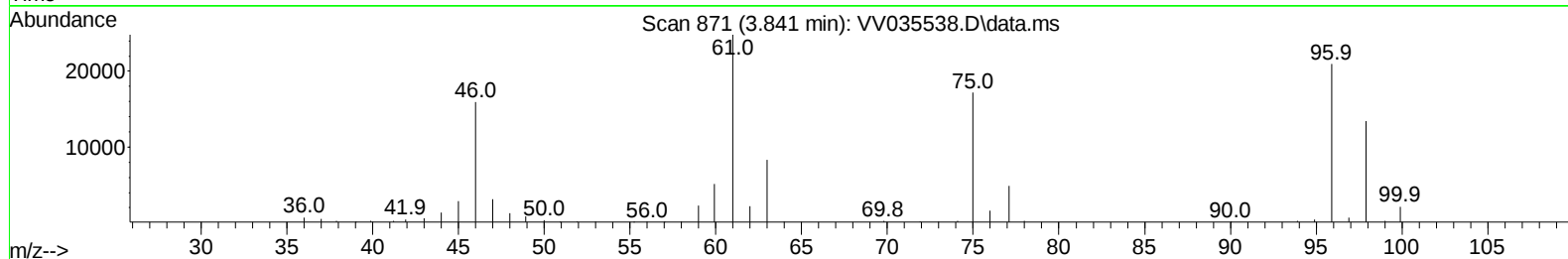
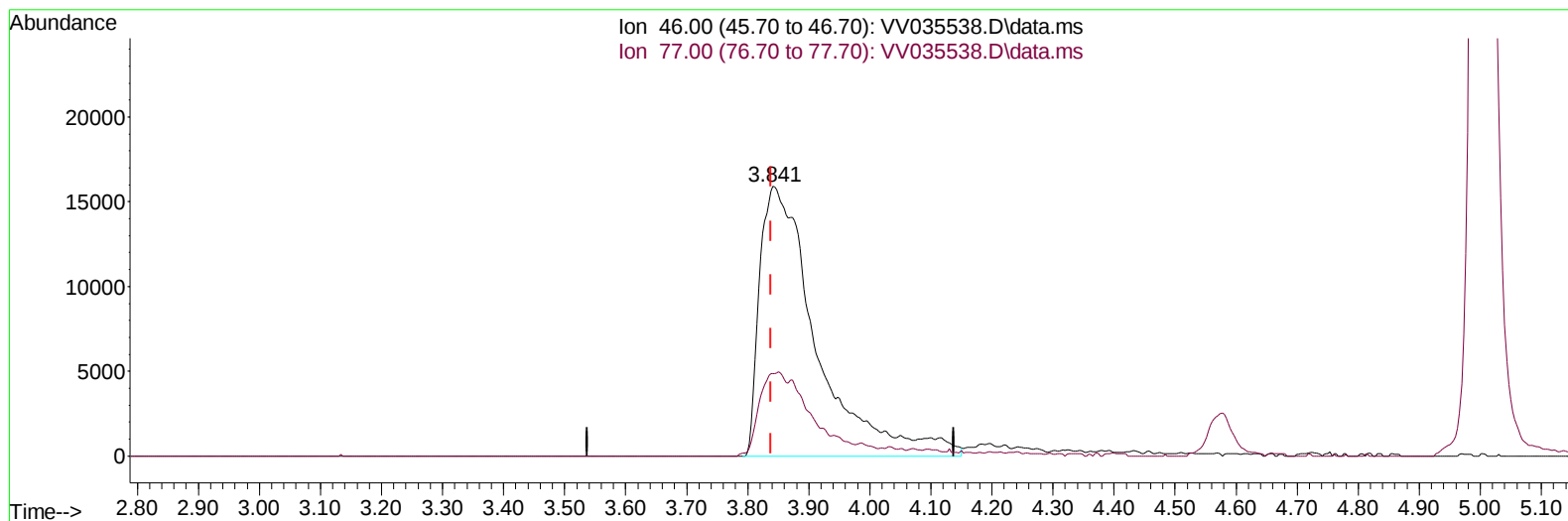
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV050624\  
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Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV261

## Manual IntegrationsAPPROVED

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TIC: VV035538.D\data.ms

## (21) 2-Butanone-d5 (S)

3.841min (+ 0.003) 49.51 ug/L m

response 103227

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 13.10  | 14.76  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

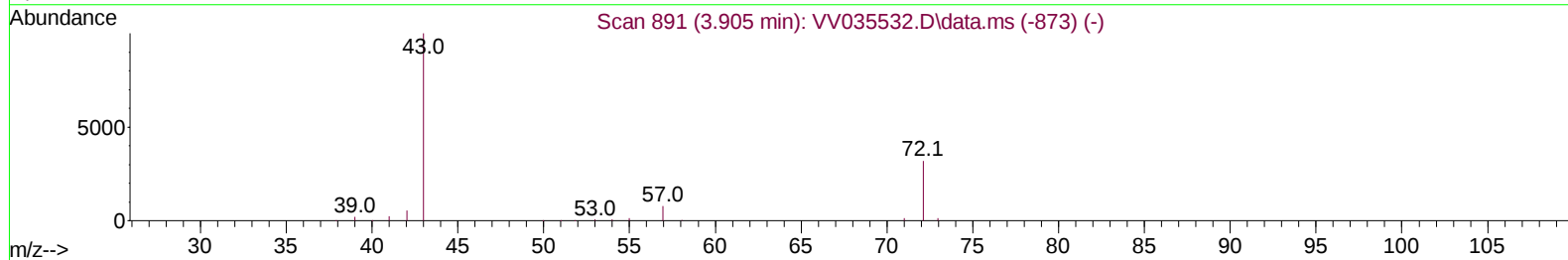
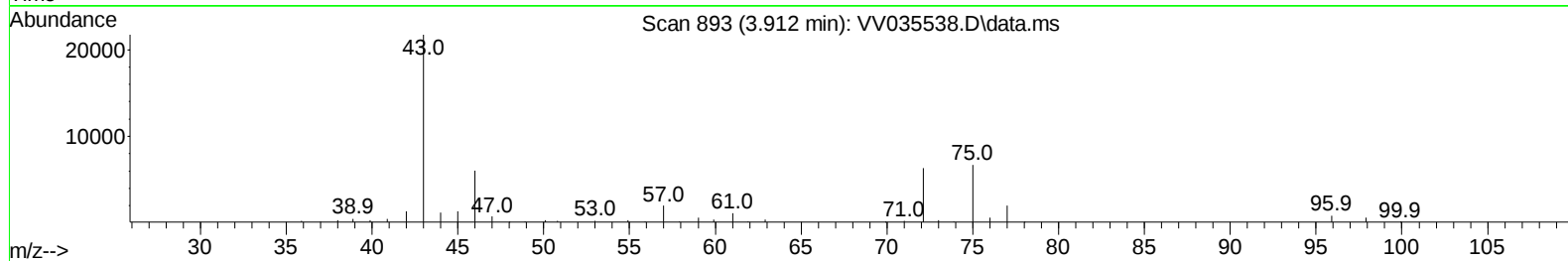
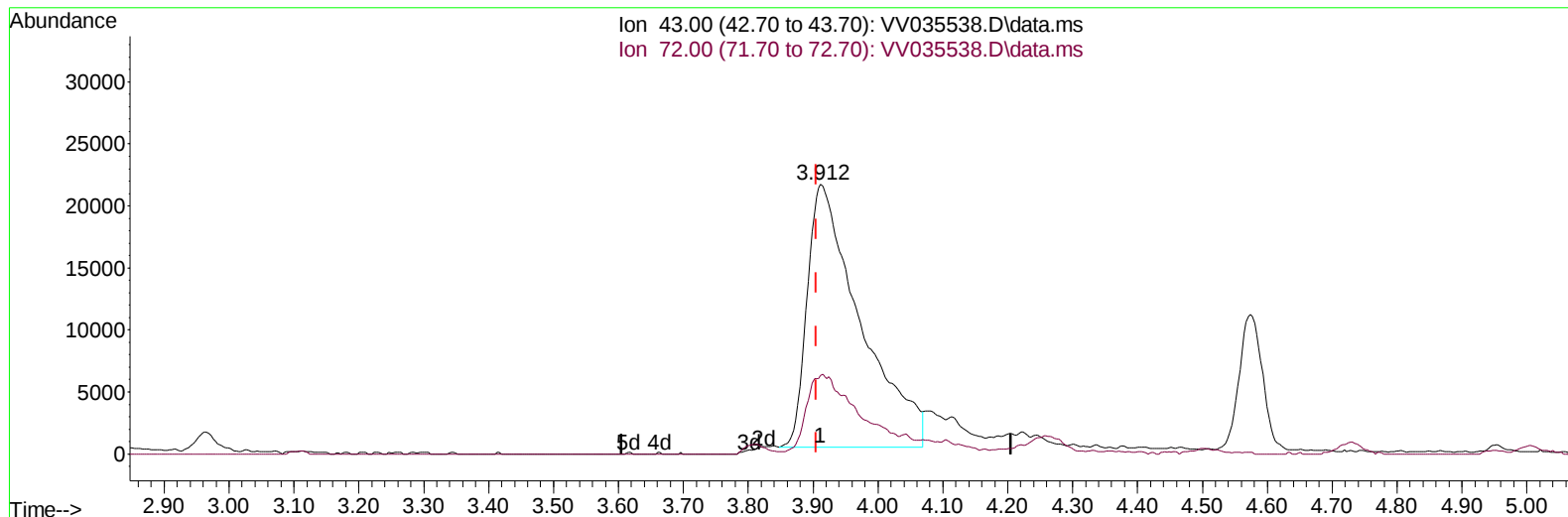
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Data File : VV035538.D  
Acq On : 06 May 2024 16:15  
Operator : SY/MD  
Sample : VSTDICV025  
Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV261

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TIC: VV035538.D\data.ms

## (22) 2-Butanone (T)

3.912min (+ 0.006) 42.50 ug/L

response 120460

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 24.60  | 7.14#  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

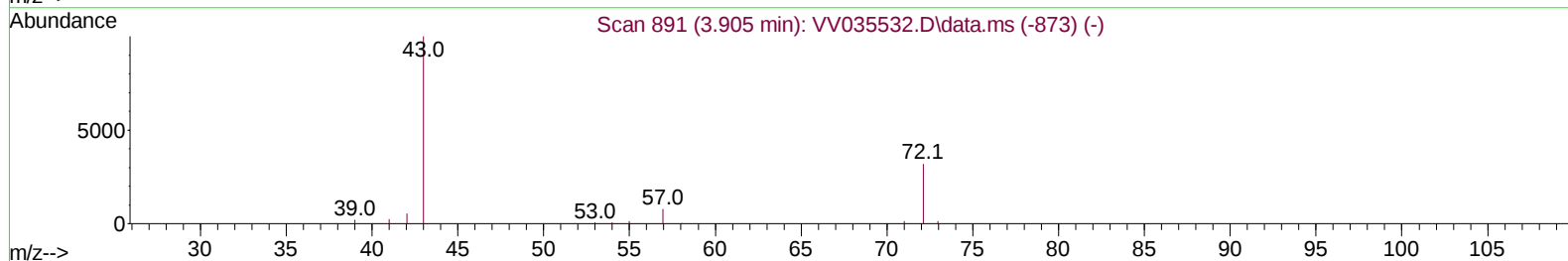
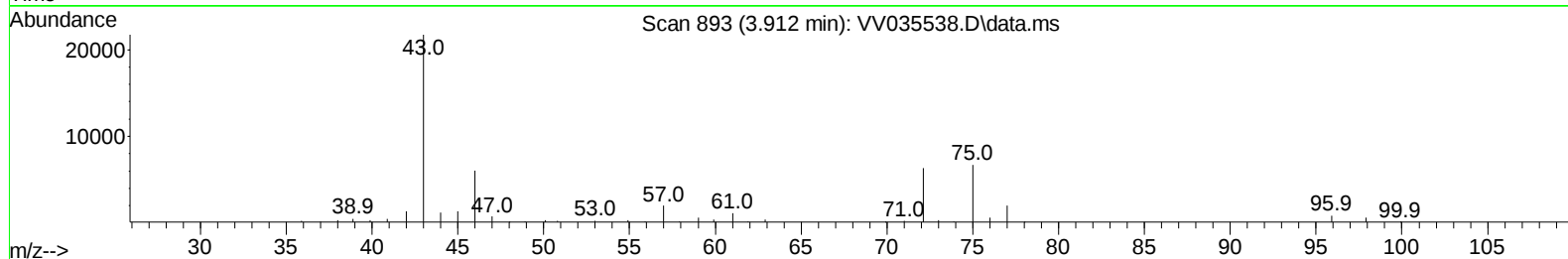
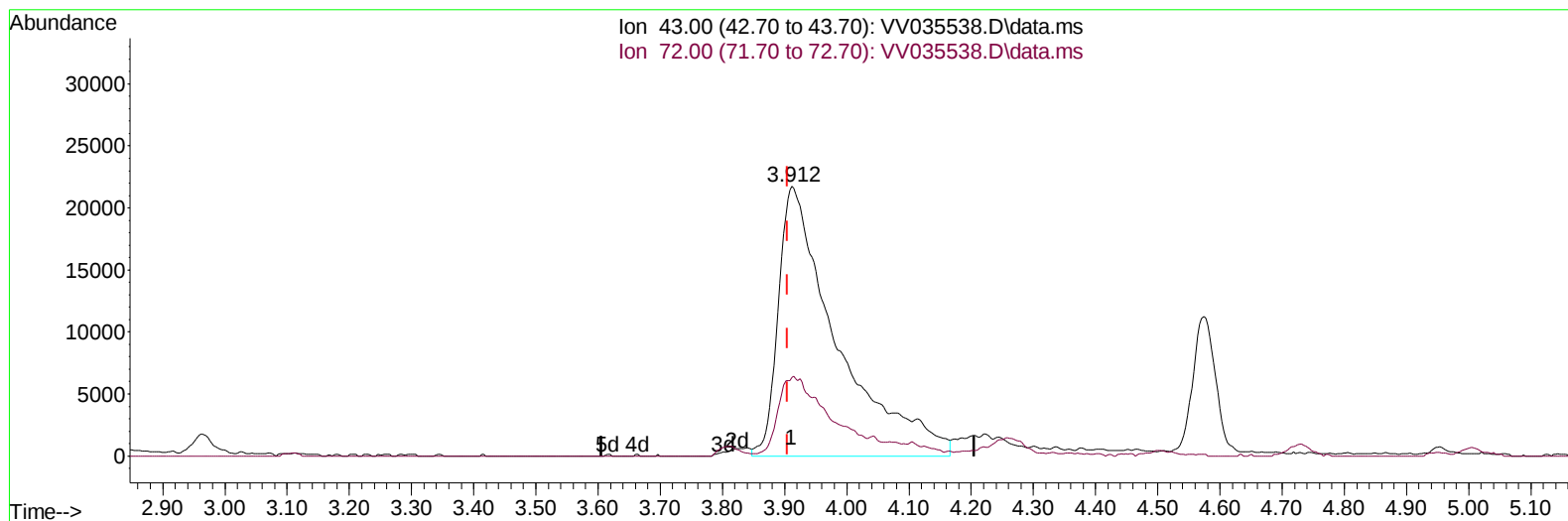
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Data File : VV035538.D  
Acq On : 06 May 2024 16:15  
Operator : SY/MD  
Sample : VSTDICV025  
Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV261

## Manual IntegrationsAPPROVED

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TIC: VV035538.D\data.ms

## (22) 2-Butanone (T)

3.912min (+ 0.006) 50.13 ug/L m

response 142089

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 24.60  | 6.05#  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

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| Compound                      | R.T.     | QIon  | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------|-------|----------|--------|---------|----------|
| -----                         |          |       |          |        |         |          |
| Internal Standards            |          |       |          |        |         |          |
| 1) 1,4-Difluorobenzene        | 5.529    | 114   | 475343   | 25.000 | ug/L    | 0.00     |
| 28) Chlorobenzene-d5          | 8.783    | 117   | 486881   | 25.000 | ug/L    | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181   | 152   | 280898   | 25.000 | ug/L    | 0.00     |
| System Monitoring Compounds   |          |       |          |        |         |          |
| 4) Vinyl Chloride-d3          | 1.272    | 65    | 148076   | 20.155 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 150 | Recovery | =      | 80.600% |          |
| 7) Chloroethane-d5            | 1.526    | 69    | 122335   | 20.640 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 150 | Recovery | =      | 82.560% |          |
| 11) 1,1-Dichloroethene-d2     | 2.053    | 65    | 66243    | 20.366 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 45 | - 110 | Recovery | =      | 81.480% |          |
| 21) 2-Butanone-d5             | 3.841    | 46    | 103227m  | 49.509 | ug/L    | 0.00     |
| Spiked Amount 50.000          | Range 20 | - 135 | Recovery | =      | 99.020% |          |
| 24) Chloroform-d              | 4.243    | 84    | 311347   | 22.032 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 40 | - 150 | Recovery | =      | 88.120% |          |
| 26) 1,2-Dichloroethane-d4     | 4.937    | 65    | 152622   | 21.846 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 70 | - 130 | Recovery | =      | 87.400% |          |
| 32) Benzene-d6                | 4.953    | 84    | 572062   | 21.464 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 20 | - 135 | Recovery | =      | 85.840% |          |
| 36) 1,2-Dichloropropane-d6    | 5.985    | 67    | 177136   | 21.537 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 70 | - 120 | Recovery | =      | 86.160% |          |
| 41) Toluene-d8                | 7.239    | 98    | 520230   | 21.932 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 130 | Recovery | =      | 87.720% |          |
| 43) trans-1,3-Dichloroprop... | 7.551    | 79    | 78193    | 22.229 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 135 | Recovery | =      | 88.920% |          |
| 47) 2-Hexanone-d5             | 8.030    | 63    | 73349    | 49.595 | ug/L    | 0.00     |
| Spiked Amount 50.000          | Range 20 | - 135 | Recovery | =      | 99.180% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149   | 84    | 190418   | 24.026 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 45 | - 120 | Recovery | =      | 96.120% |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.558   | 152   | 210541   | 21.597 | ug/L    | 0.00     |
| Spiked Amount 25.000          | Range 75 | - 120 | Recovery | =      | 86.400% |          |
| Target Compounds              |          |       |          |        |         |          |
|                               |          |       |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.101    | 85    | 229698   | 23.768 | ug/L    | 98       |
| 3) Chloromethane              | 1.211    | 50    | 214416   | 22.098 | ug/L    | 99       |
| 5) Vinyl chloride             | 1.278    | 62    | 239395   | 23.882 | ug/L    | 100      |
| 6) Bromomethane               | 1.484    | 94    | 148669   | 23.423 | ug/L    | 98       |
| 8) Chloroethane               | 1.545    | 64    | 152152   | 24.623 | ug/L    | 99       |
| 9) Trichlorofluoromethane     | 1.709    | 101   | 332234   | 25.392 | ug/L    | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060    | 101   | 213814   | 25.900 | ug/L    | 100      |
| 12) 1,1-Dichloroethene        | 2.063    | 96    | 185922   | 24.934 | ug/L    | 98       |
| 13) Acetone                   | 2.162    | 43    | 130680m  | 42.816 | ug/L    |          |
| 14) Carbon disulfide          | 2.233    | 76    | 522305   | 22.115 | ug/L    | 99       |
| 15) Methyl Acetate            | 2.384    | 43    | 123085m  | 26.618 | ug/L    |          |
| 16) Methylene chloride        | 2.439    | 84    | 232634   | 21.223 | ug/L    | 97       |
| 17) trans-1,2-Dichloroethene  | 2.687    | 96    | 206401   | 24.934 | ug/L    | 97       |
| 18) Methyl tert-butyl Ether   | 2.699    | 73    | 540608   | 27.074 | ug/L    | 99       |
| 19) 1,1-Dichloroethane        | 3.104    | 63    | 399468   | 25.741 | ug/L    | 100      |
| 20) cis-1,2-Dichloroethene    | 3.809    | 96    | 229374   | 25.560 | ug/L    | 99       |
| 22) 2-Butanone                | 3.912    | 43    | 142089m  | 50.130 | ug/L    |          |
| 23) Bromochloromethane        | 4.143    | 128   | 113127   | 26.064 | ug/L    | 96       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 25) Chloroform                | 4.268  | 83   | 416972   | 26.020 | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 262986   | 26.354 | ug/L  | 100      |
| 29) Cyclohexane               | 4.574  | 56   | 303309   | 26.051 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 358155   | 26.530 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 314814   | 26.578 | ug/L  | 98       |
| 33) Benzene                   | 5.002  | 78   | 848459   | 26.330 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 237248   | 26.029 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.043  | 83   | 358922   | 25.937 | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 224875   | 26.748 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.429  | 83   | 303066   | 26.611 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 354498   | 26.959 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 280704   | 55.750 | ug/L  | 99       |
| 42) Toluene                   | 7.310  | 91   | 920622   | 26.997 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 316549   | 27.519 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 194731   | 27.260 | ug/L  | 100      |
| 46) Tetrachloroethene         | 7.902  | 164  | 189067   | 25.532 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.079  | 43   | 201298   | 53.322 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.172  | 129  | 217672   | 27.005 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 188022   | 26.718 | ug/L  | 98       |
| 51) Chlorobenzene             | 8.812  | 112  | 617878   | 26.112 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.943  | 91   | 1026116  | 27.253 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.069  | 106  | 390124   | 27.311 | ug/L  | 99       |
| 54) o-Xylene                  | 9.474  | 106  | 371371   | 27.430 | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 673699   | 28.530 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 240885   | 27.683 | ug/L  | 100      |
| 59) Bromoform                 | 9.664  | 173  | 151437   | 27.433 | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.863  | 105  | 1040882  | 27.818 | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 179494   | 27.269 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 849206   | 28.931 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 852016   | 28.246 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 516997   | 26.328 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 529710   | 26.057 | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 480185   | 25.978 | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 41622    | 27.265 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 397945   | 25.933 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 331165   | 25.845 | ug/L  | 100      |
| 71) Naphthalene               | 13.435 | 128  | 585126   | 26.012 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 300003   | 26.026 | ug/L  | 100      |

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

## Manual IntegrationsAPPROVED

Quant Time: May 08 01:56:43 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM050624SMA.M  
Quant Title : VOC Analysis  
QLast Update : wed May 08 01:49:05 2024  
Response via : Initial Calibration

