

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032719\  
 Data File : VW009514.D  
 Acq On : 27 Mar 2019 22:16  
 Operator : SY/VA  
 Sample : K2068-06  
 Misc : 4.91G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5M8RE

Manual Integrations  
 APPROVED

MMDadoda  
 3/28/2019 2:48:07 PM

Quant Time: Mar 28 08:01:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 28 07:41:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 238071   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 175429   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 49650    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 68000    | 23.90    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.60%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 76717    | 23.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.20%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 107344   | 17.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 69.84%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 15988    | 13.59    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 27.18%   |
| 24) Chloroform-d               | 7.64   | 84    | 174120   | 26.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 107.20%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 107508m  | 27.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.88%  |
| 29) Benzene-d6                 | 8.27   | 84    | 289034   | 29.87    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 119.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 96835    | 33.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 133.28%# |
| 37) Toluene-d8                 | 10.32  | 98    | 204435   | 22.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.40%   |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 14573    | 9.99     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 39.96%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 10184    | 14.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 28.94%   |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 78372    | 27.39    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 109.56%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 42584    | 22.37    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 89.48%   |

| Target Compounds       |      |    |        |             | Ovalue |
|------------------------|------|----|--------|-------------|--------|
| 13) Acetone            | 4.12 | 43 | 8781   | 9.101 ug/L  | 97     |
| 16) Methylene chloride | 4.90 | 84 | 20775m | 5.984 ug/L  |        |
| 21) 2-Butanone         | 7.14 | 43 | 27458m | 20.611 ug/L |        |

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

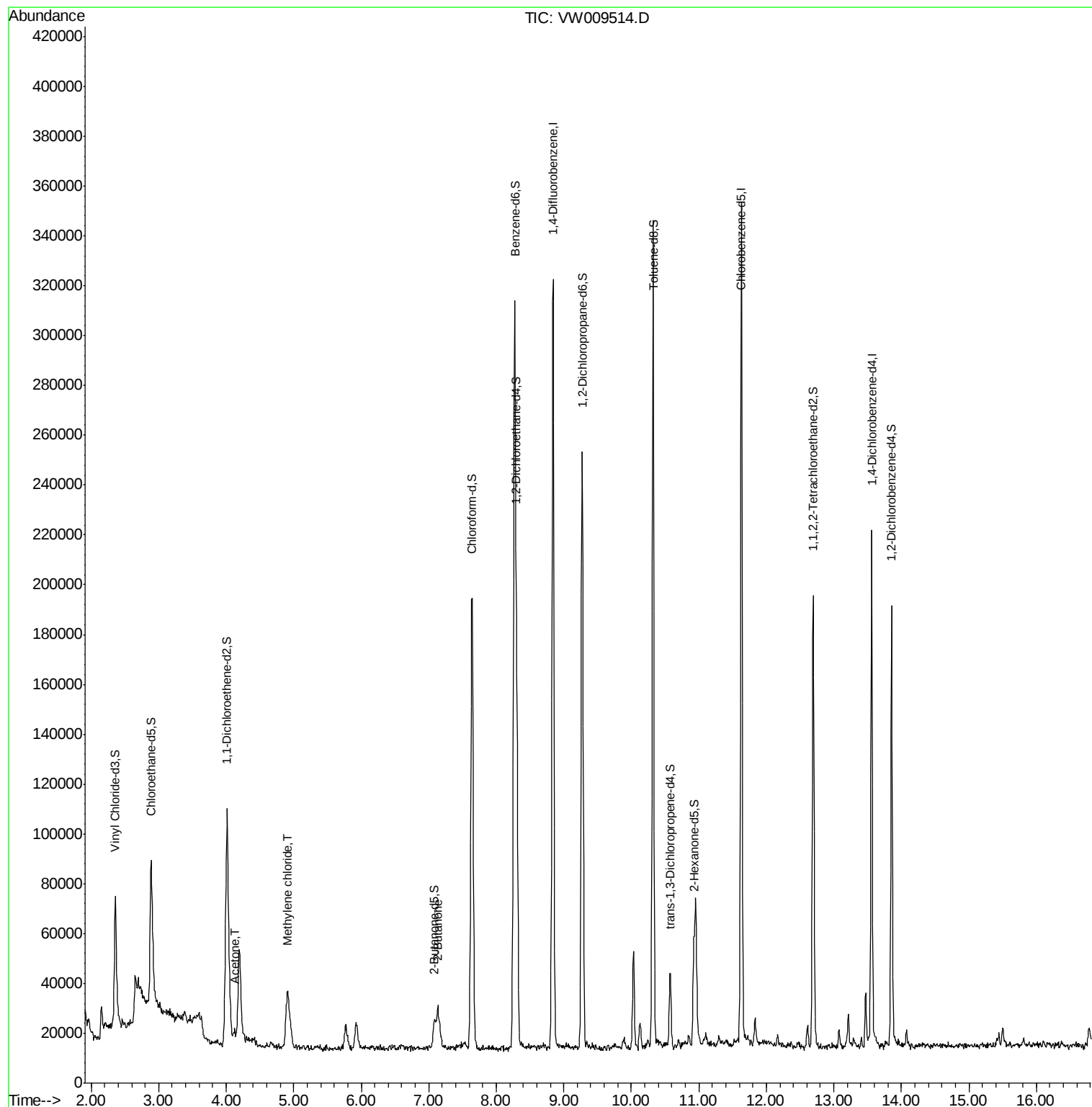
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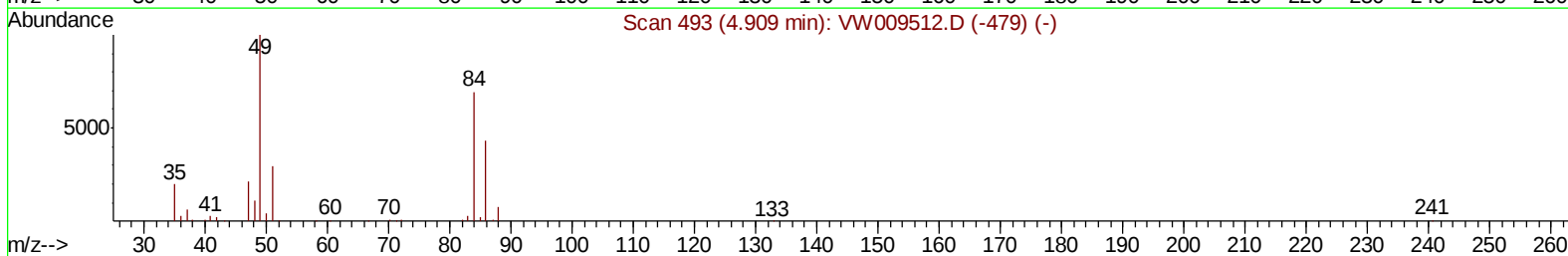
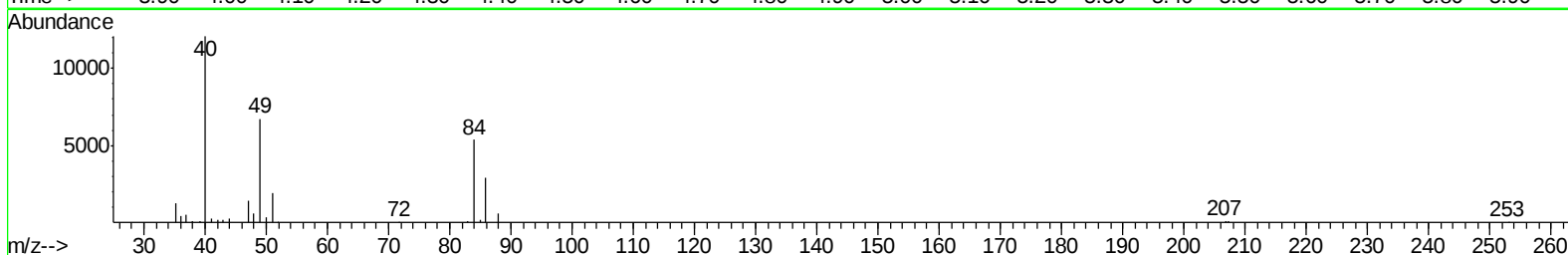
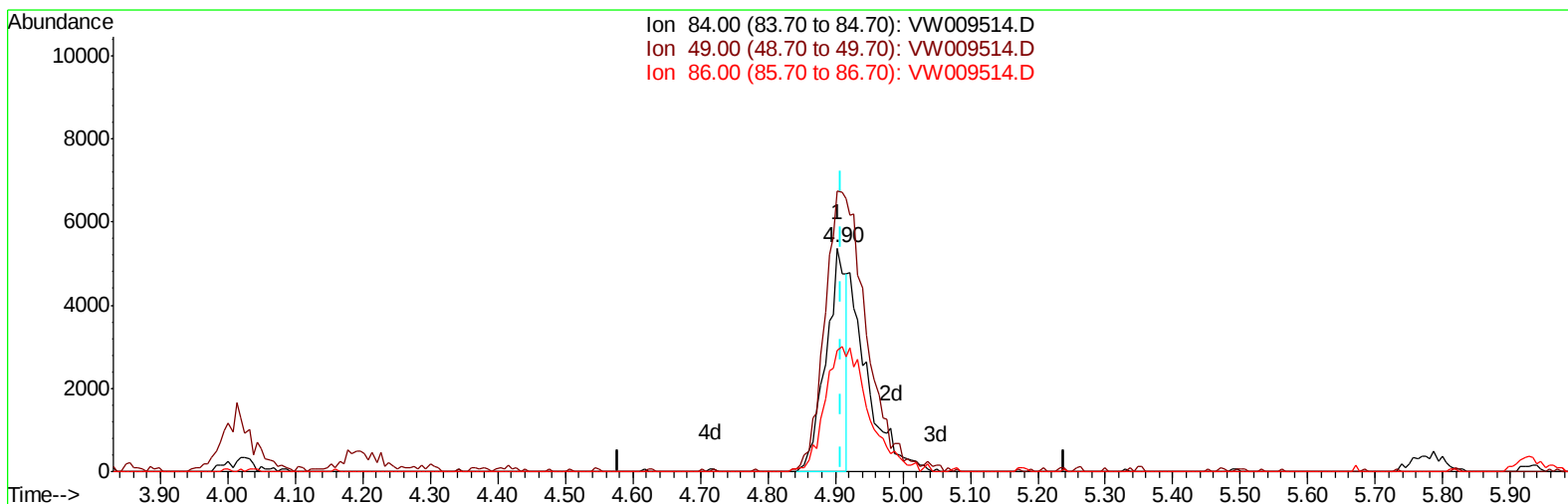
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TIC: VW009514.D

(16) Methylene chloride (T)

4.903min (-0.006) 3.15ug/L

response 10939

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 84.00 | 100    | 100    |
| 49.00 | 137.10 | 125.38 |
| 86.00 | 63.50  | 53.90  |
| 0.00  | 0.00   | 0.00   |

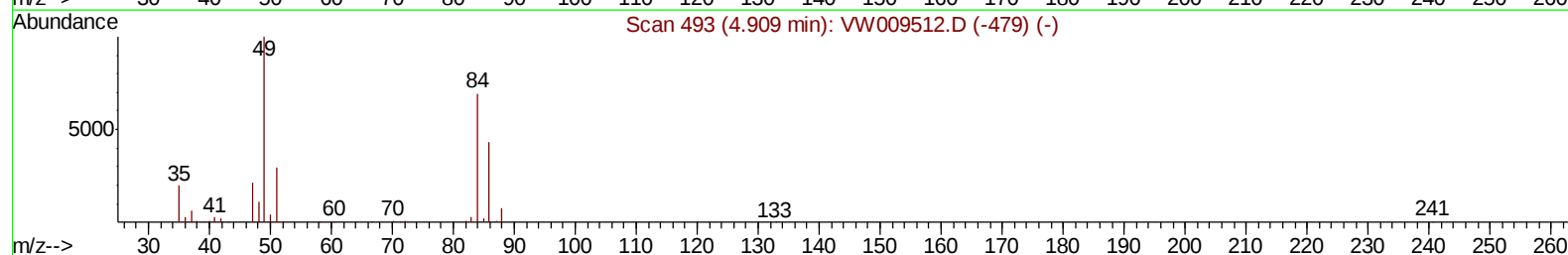
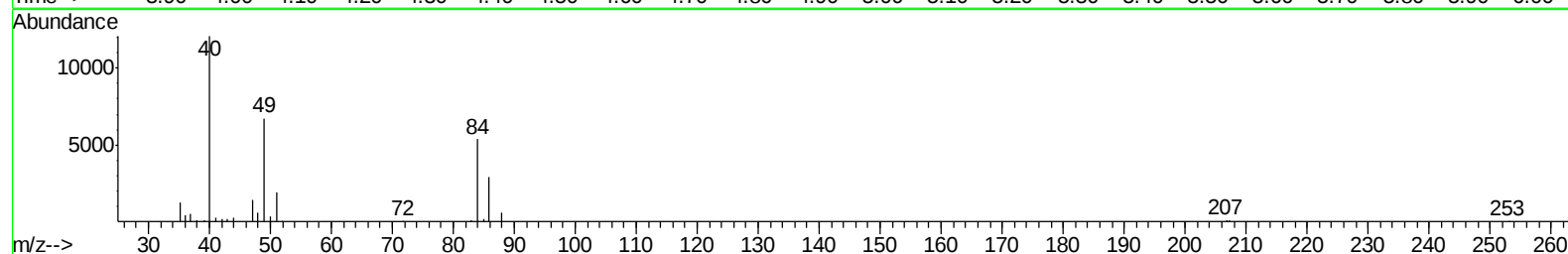
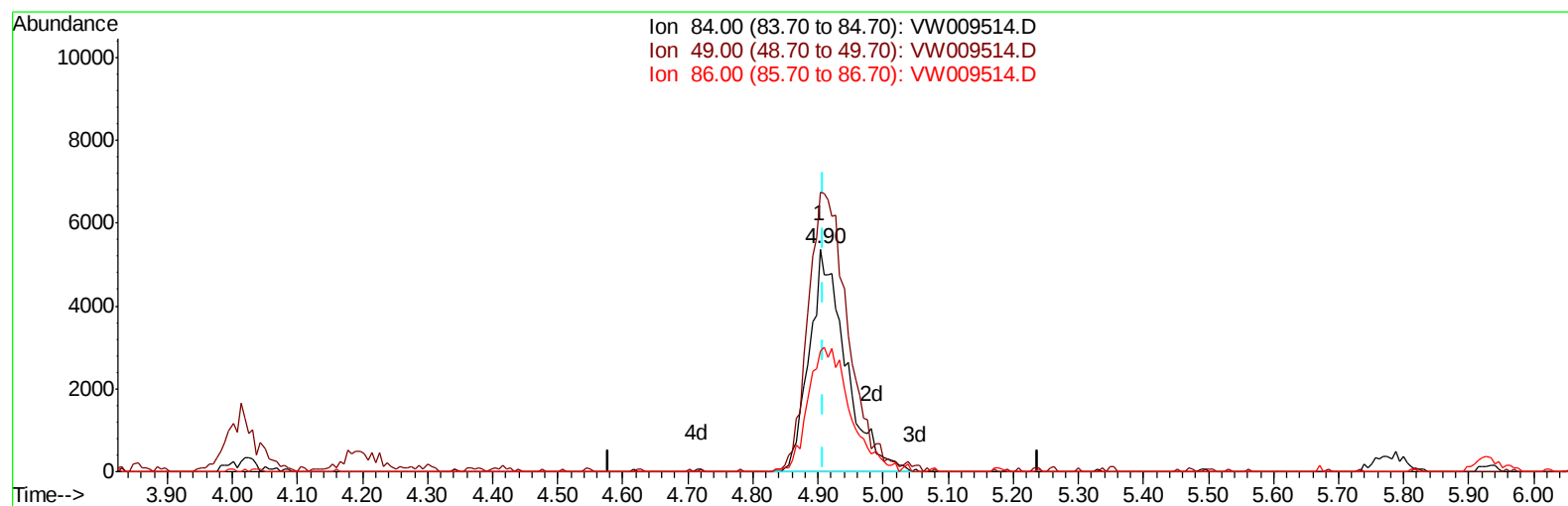
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TIC: VW009514.D

(16) Methylene chloride (T)  
4.903min (-0.006) 5.98ug/L m

response 20775

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 84.00 | 100    | 100    |
| 49.00 | 137.10 | 125.38 |
| 86.00 | 63.50  | 53.90  |
| 0.00  | 0.00   | 0.00   |

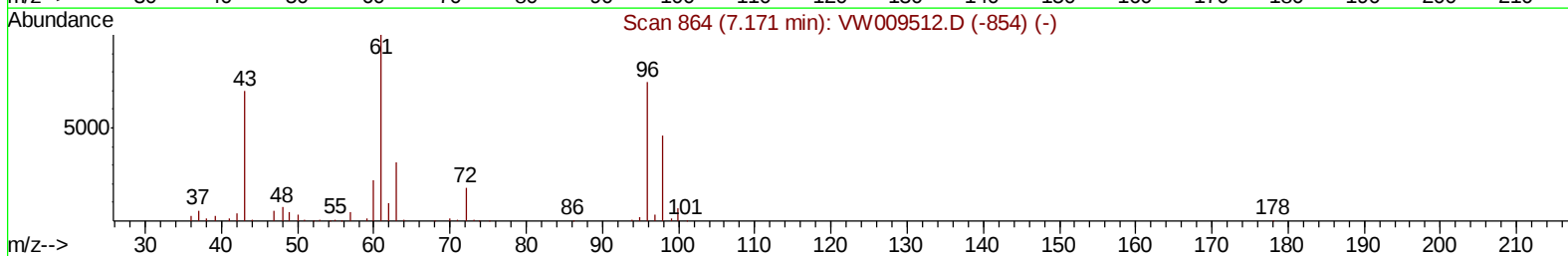
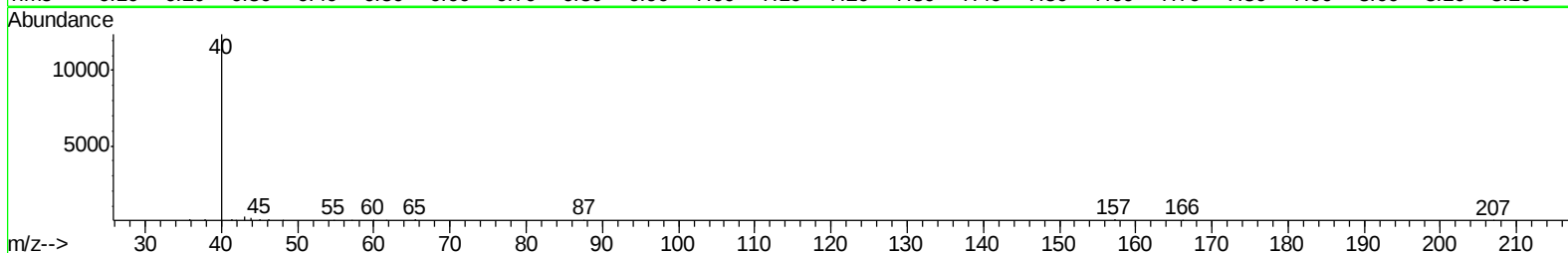
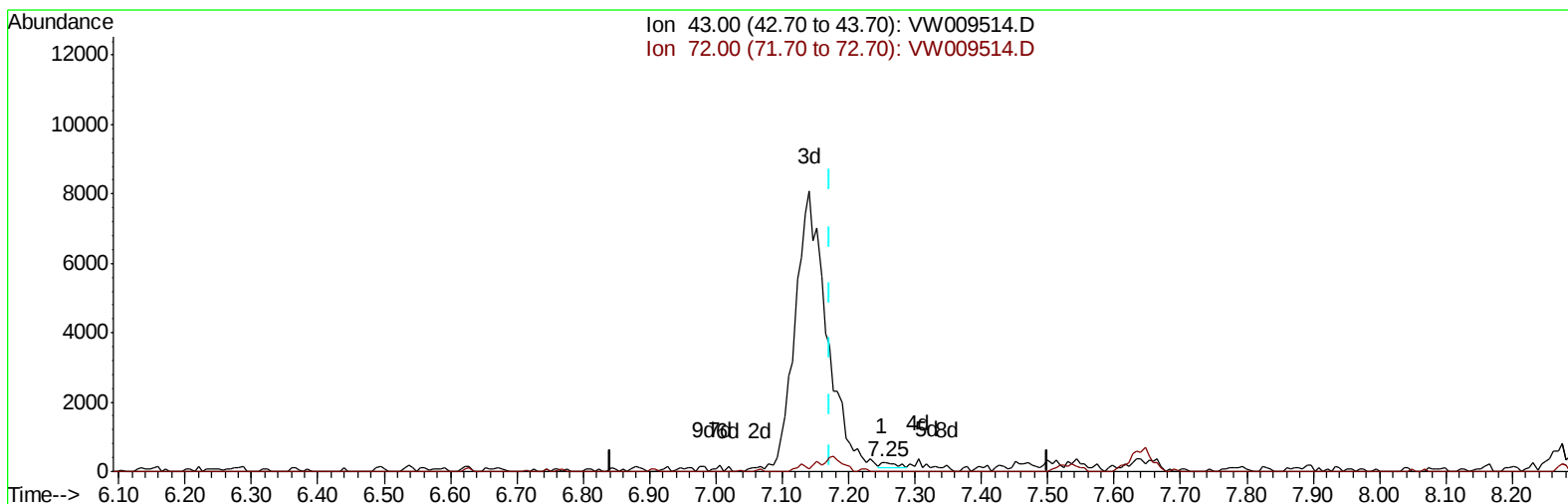
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TIC: VW009514.D

(21) 2-Butanone

7.250min (+0.079) 0.20ug/L

response 269

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 26.10 | 21.93 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

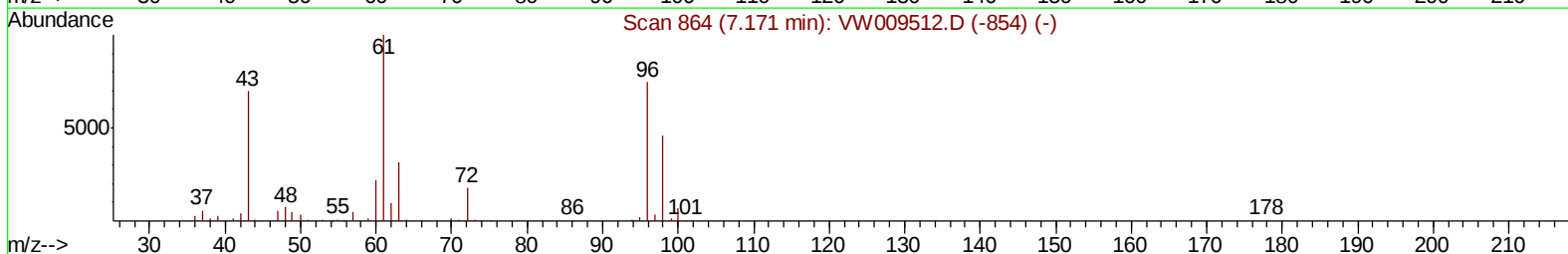
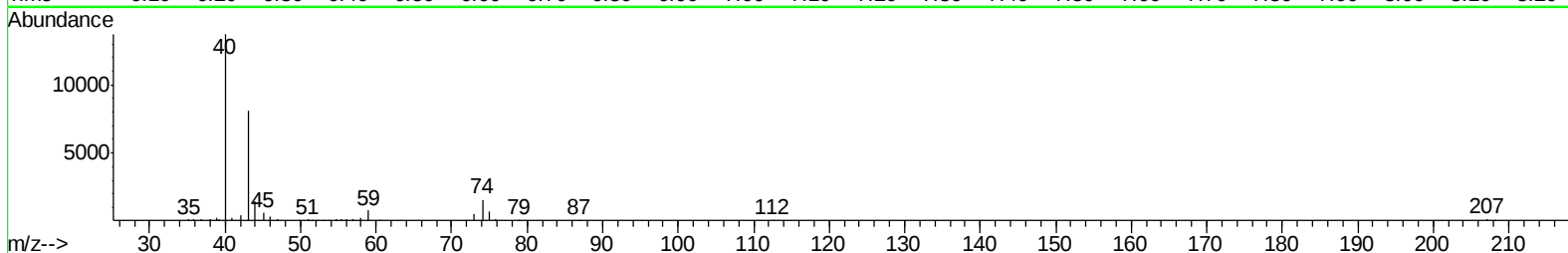
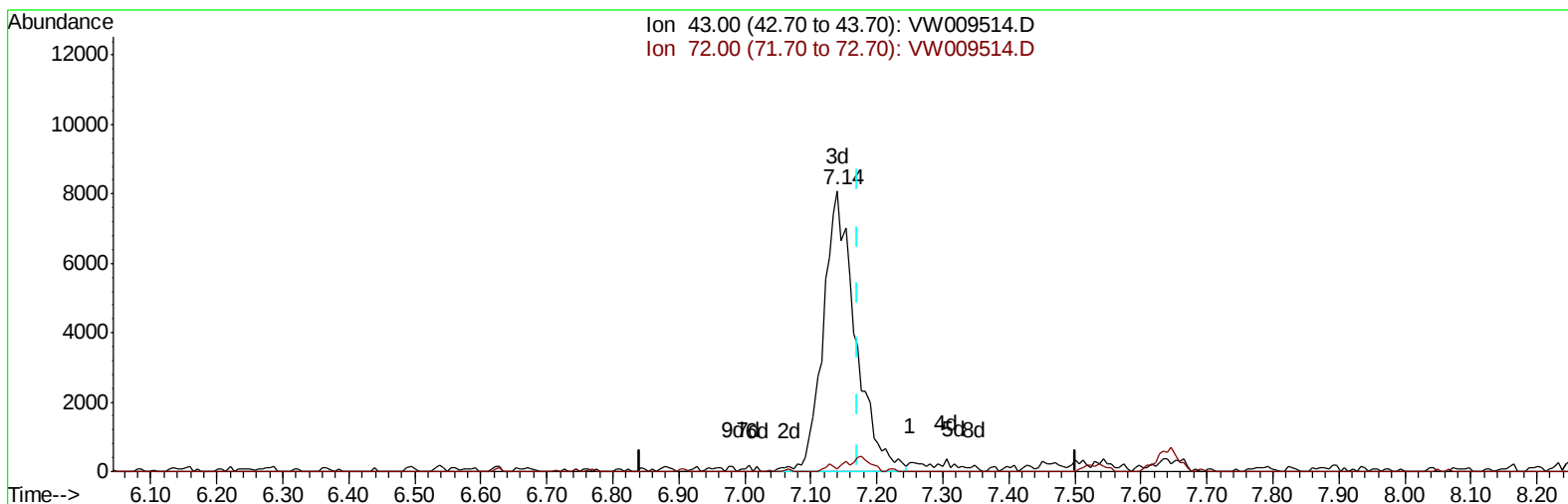
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TIC: VW009514.D

(21) 2-Butanone

7.141min (-0.031) 20.61ug/L m

response 27458

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 26.10 | 0.21# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

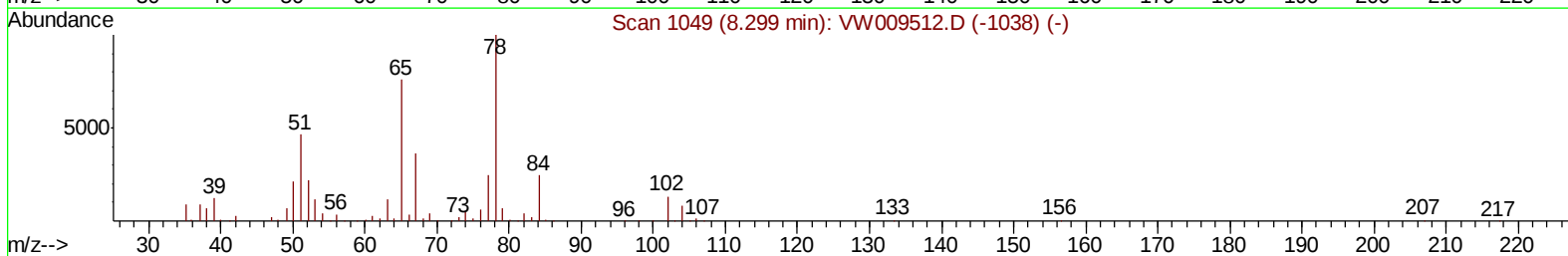
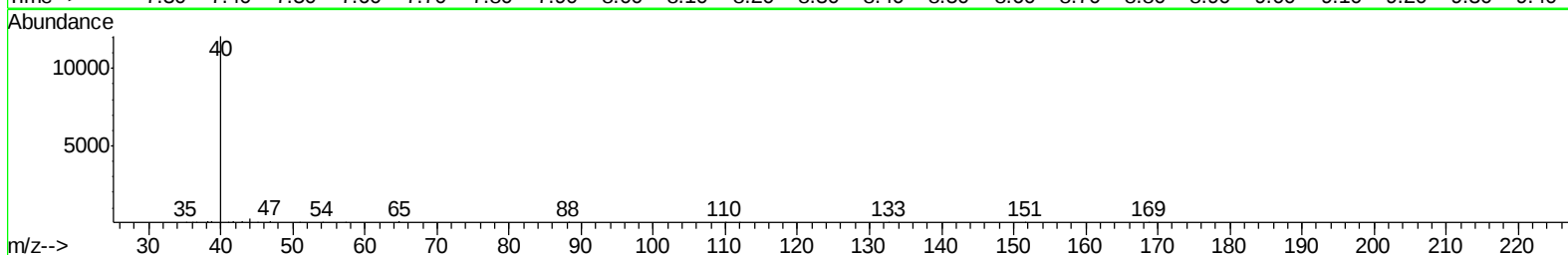
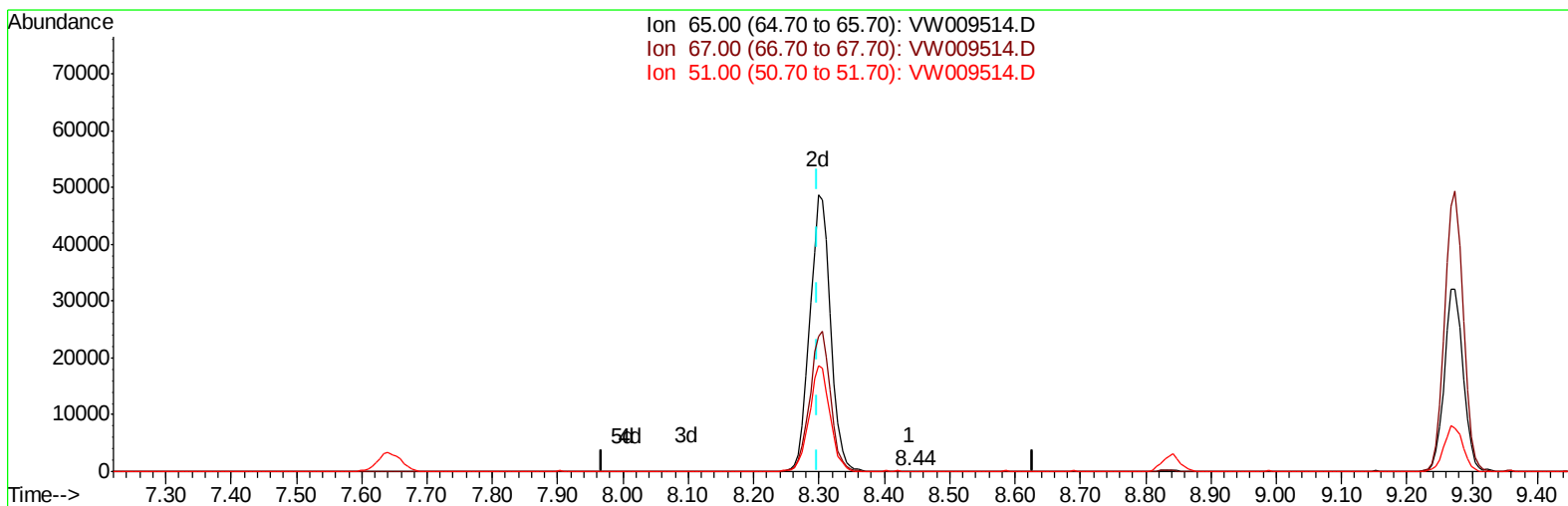
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TIC: VW009514.D

(26) 1,2-Dichloroethane-d4 (S)

8.439min (+0.140) 0.03ug/L

response 102

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 65.00 | 100   | 100    |
| 67.00 | 50.80 | 45.10  |
| 51.00 | 97.70 | 100.00 |
| 0.00  | 0.00  | 0.00   |

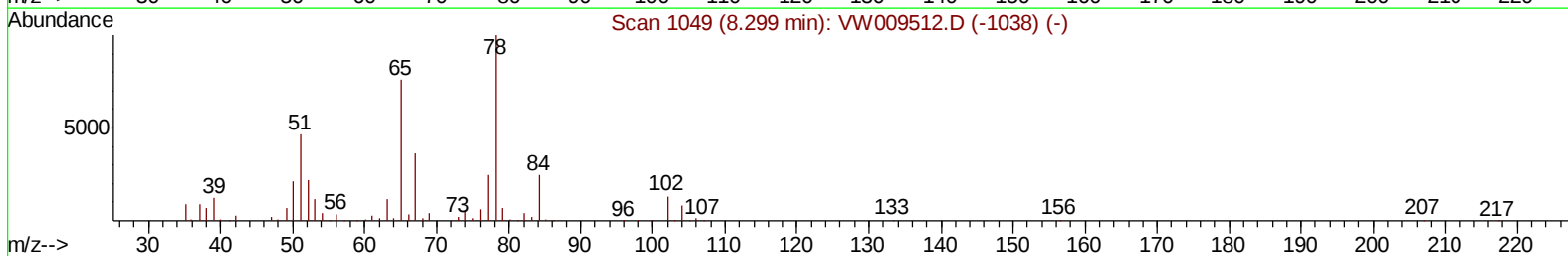
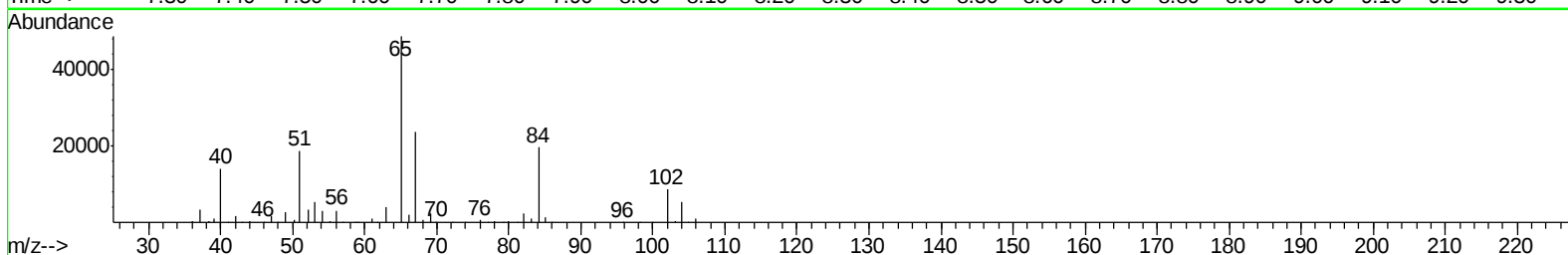
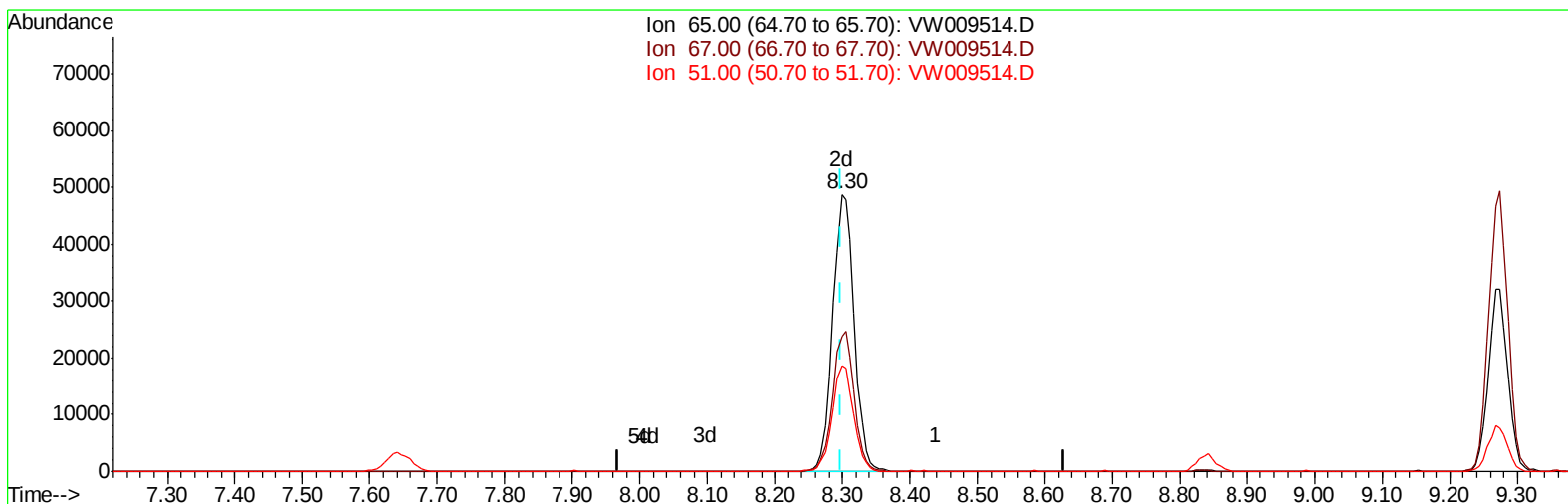
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(26) 1,2-Dichloroethane-d4 (S)

8.299min (-0.000) 27.47ug/L m

response 107508

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 65.00 | 100   | 100   |
| 67.00 | 50.80 | 0.04# |
| 51.00 | 97.70 | 0.09# |
| 0.00  | 0.00  | 0.00  |