

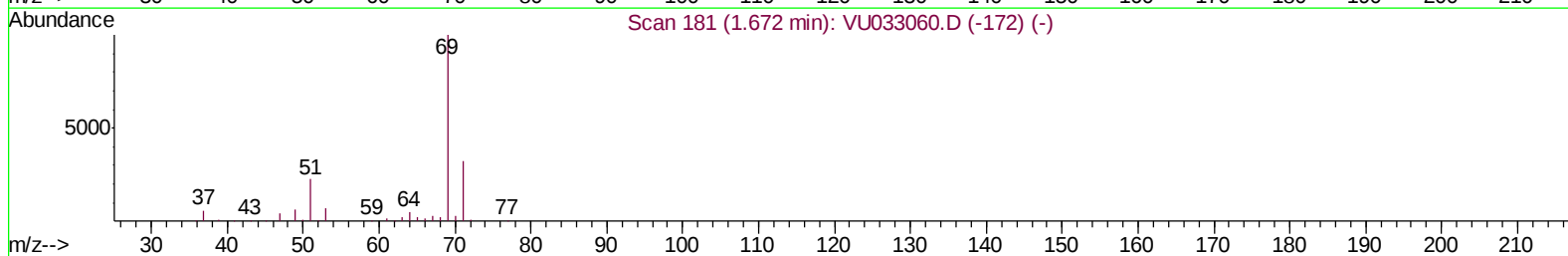
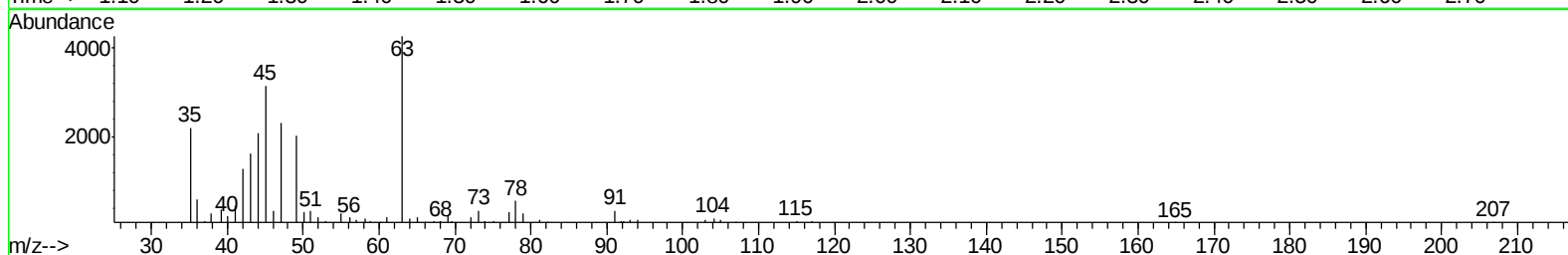
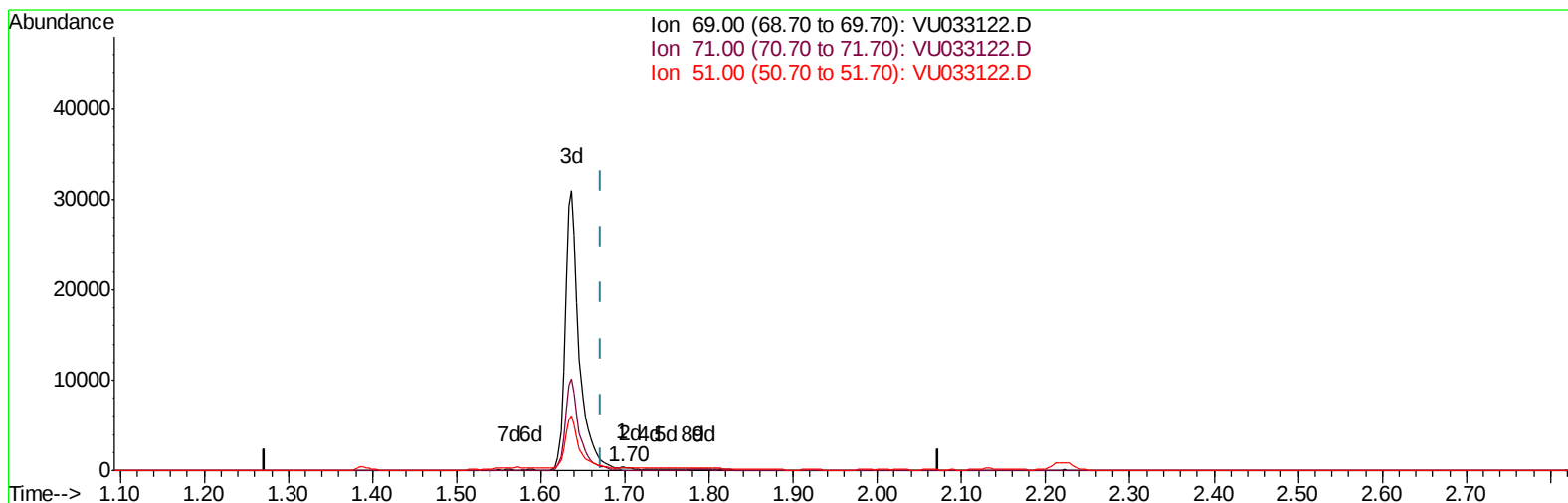
Data File : VU033122.D  
Acq On : 01 Jul 2019 18:10  
Operator : JC/SP  
Sample : K3599-09  
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAM18

Manual Integrations  
APPROVED

MMDadoda  
7/3/2019 9:03:12 AM

Quant Time: Jul 02 04:22:38 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 02 04:16:18 2019  
Response via : Initial Calibration



TIC: VU033122.D

(7) Chloroethane-d5 (S)

1.698min (+0.025) 0.06ug/L

response 77

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.00 | 100   | 100   |
| 71.00 | 31.30 | 0.00# |
| 51.00 | 30.80 | 0.00# |
| 0.00  | 0.00  | 0.00  |

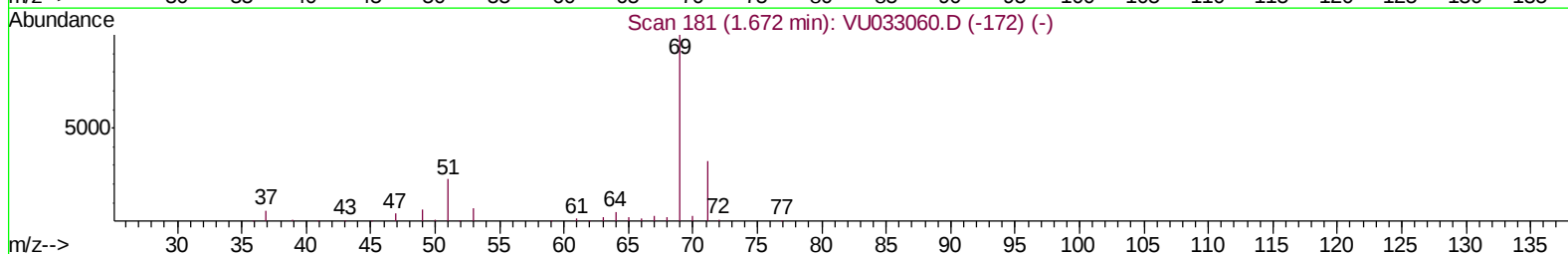
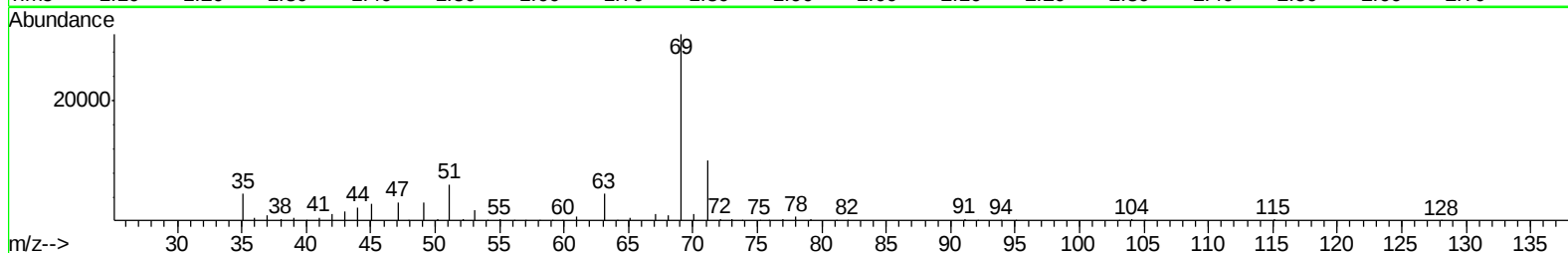
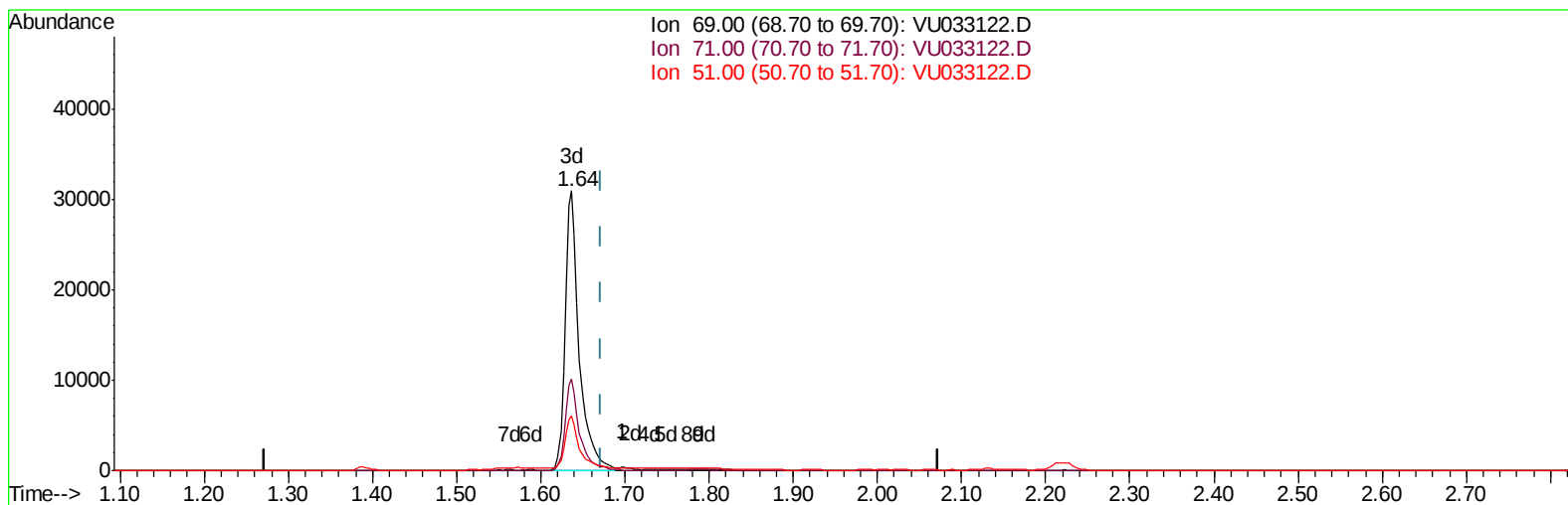
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Acq On : 01 Jul 2019 18:10  
Operator : JC/SP  
Sample : K3599-09  
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAM18

Manual Integrations  
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7/3/2019 9:03:12 AM

Quant Time: Jul 02 04:22:38 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 02 04:16:18 2019  
Response via : Initial Calibration



TIC: VU033122.D

(7) Chloroethane-d5 (S)

1.637min (-0.036) 30.00ug/L m

response 36328

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.00 | 100   | 100   |
| 71.00 | 31.30 | 0.00# |
| 51.00 | 30.80 | 0.00# |
| 0.00  | 0.00  | 0.00  |

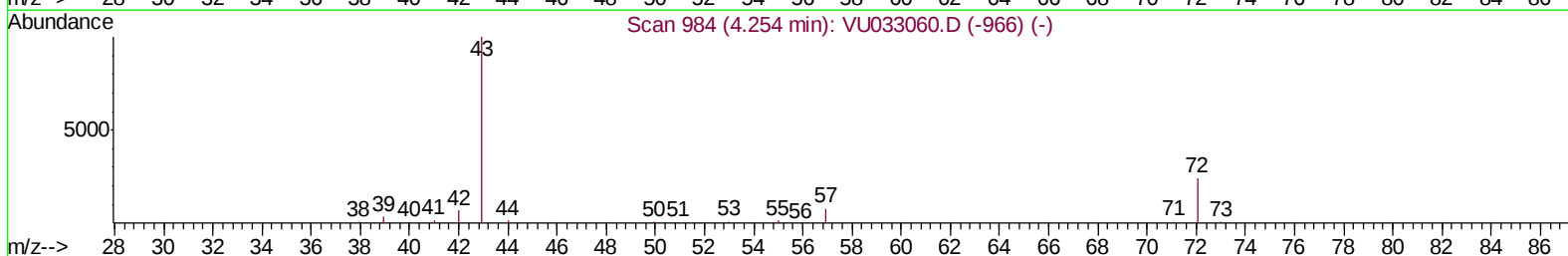
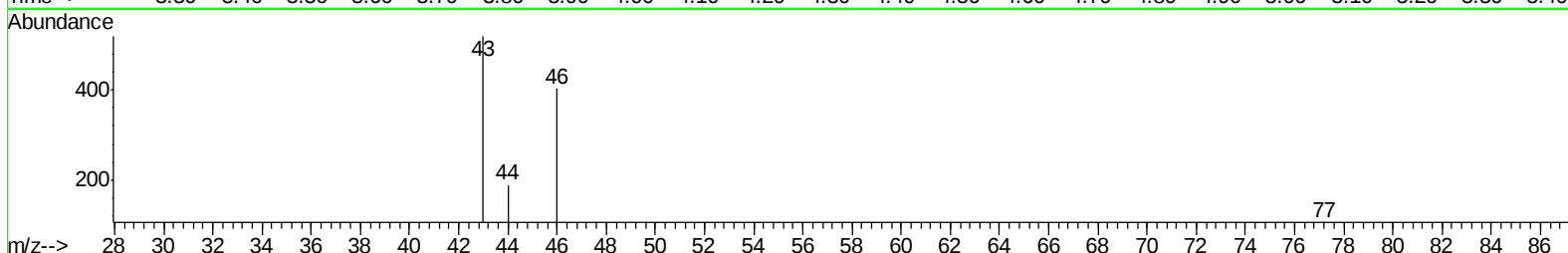
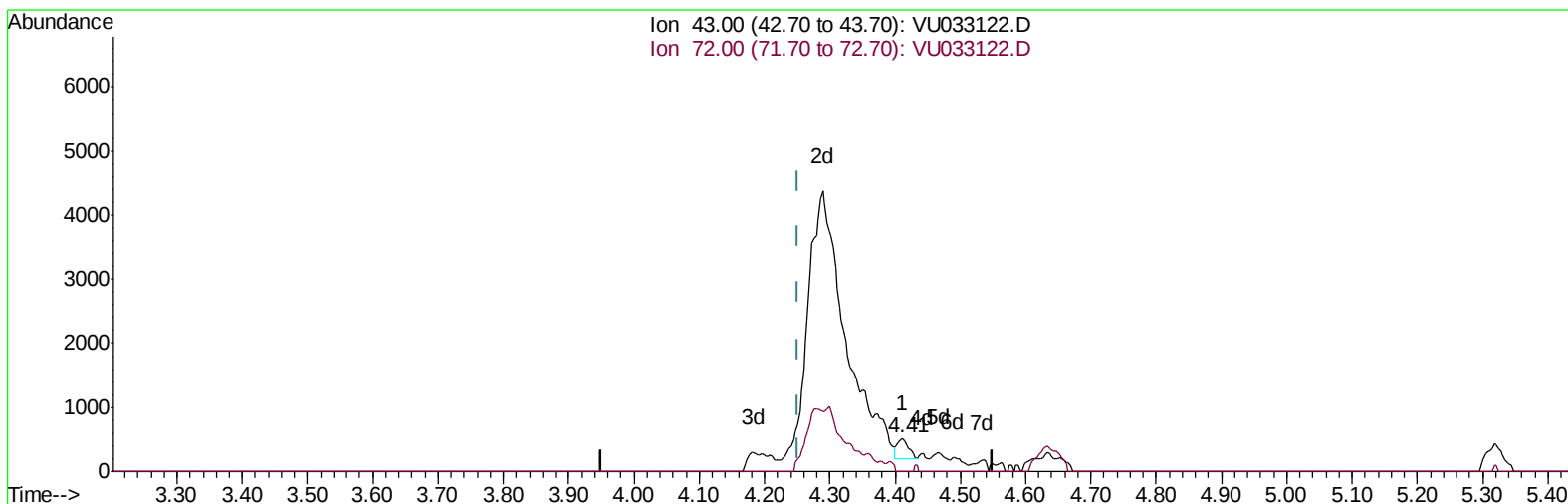
Data File : VU033122.D  
Acq On : 01 Jul 2019 18:10  
Operator : JC/SP  
Sample : K3599-09  
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAM18

Manual Integrations  
APPROVED

MMDadoda  
7/3/2019 9:03:12 AM

Quant Time: Jul 02 04:22:38 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 02 04:16:18 2019  
Response via : Initial Calibration



TIC: VU033122.D

(22) 2-Butanone (T)  
4.411min (+0.160) 0.20ug/L

response 357

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 25.70 | 29.69 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

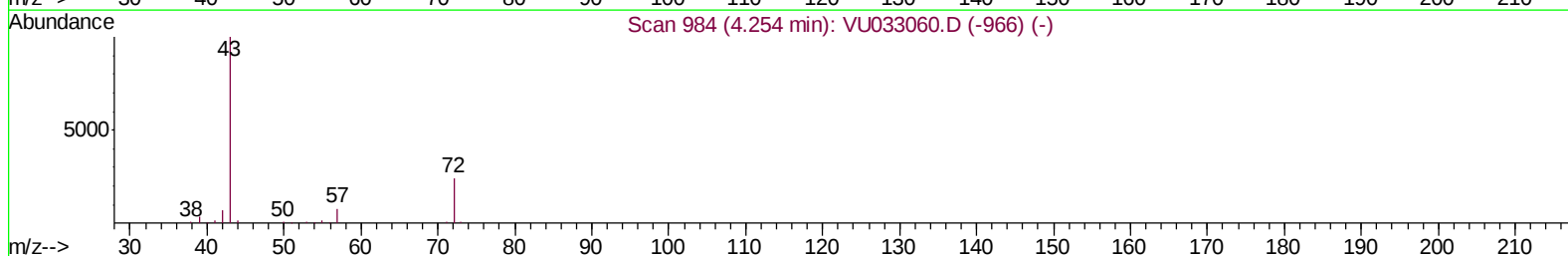
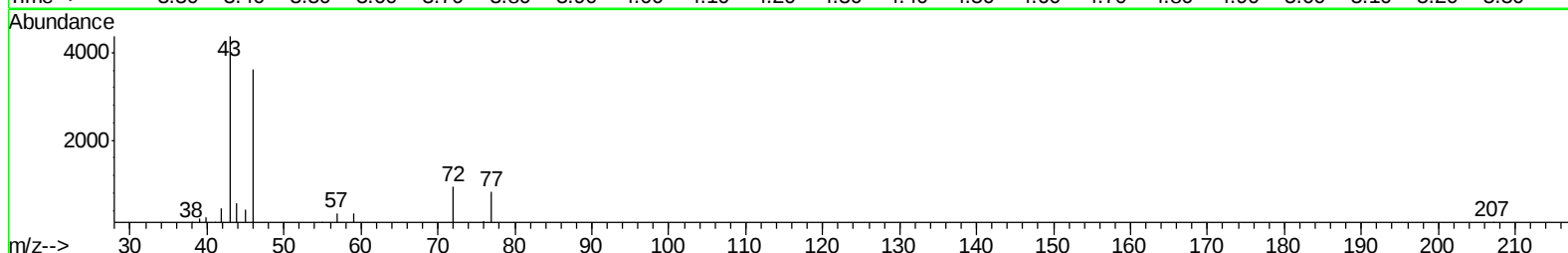
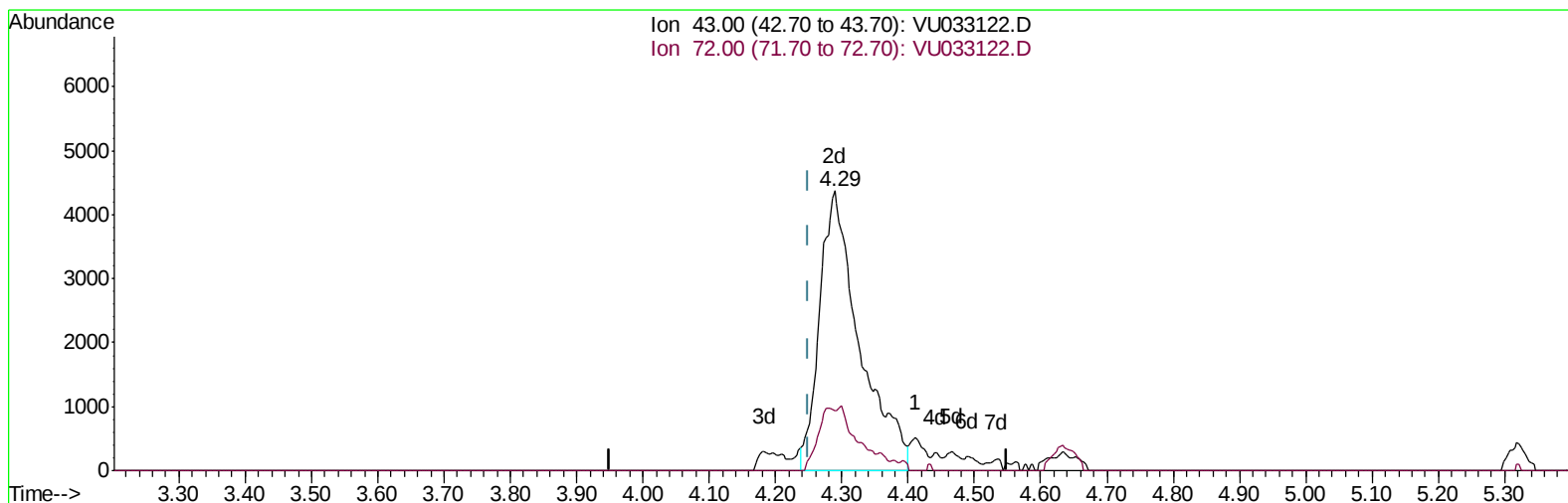
Data File : VU033122.D  
Acq On : 01 Jul 2019 18:10  
Operator : JC/SP  
Sample : K3599-09  
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
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Quant Title : VOC Analysis  
QLast Update : Tue Jul 02 04:16:18 2019  
Response via : Initial Calibration



TIC: VU033122.D

(22) 2-Butanone (T)  
4.289min (+0.038) 10.13ug/L m

response 18329

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 25.70 | 0.58# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

Data File : VU033122.D  
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Sample : K3599-09  
Misc : 7.92g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAM18

Manual Integrations  
APPROVED

MMDadoda  
7/3/2019 9:03:12 AM

Quant Time: Jul 02 07:22:56 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 02 04:16:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.87  | 114  | 222186   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 219935   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 107695   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 54094    | 35.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 71.24%  |
| 7) Chloroethane-d5             | 1.64    | 69    | 36328m   | 30.00    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 60.00%# |
| 11) 1,1-Dichloroethene-d2      | 2.22    | 63    | 94929    | 31.03    | ug/L | -0.05   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.06%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 144985   | 114.72   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 114.72% |
| 24) Chloroform-d               | 4.63    | 84    | 139019   | 47.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.18%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 101200   | 51.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.94% |
| 32) Benzene-d6                 | 5.32    | 84    | 262285   | 45.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.50%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 88487    | 48.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.90%  |
| 41) Toluene-d8                 | 7.56    | 98    | 233493   | 43.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.98%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 41458    | 43.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.28%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 88090    | 103.29   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.29% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 141218   | 50.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.04% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 98068    | 47.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.12%  |

| Target Compounds |      |    |        |        | Qvalue |
|------------------|------|----|--------|--------|--------|
| 22) 2-Butanone   | 4.29 | 43 | 18329m | 10.130 | ug/L   |

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

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