

Data File : VW013615.D

Acq On : 18 Oct 2019 10:23

Operator : SY/VA

Sample : VSTD00522

Misc : 5.00G/10ML/MSVOA\_W/SOIL

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA\_W

ClientSampleId :

VSTD00504

Manual Integrations  
APPROVED

MMDadoda  
10/21/2019 2:45:07 PM

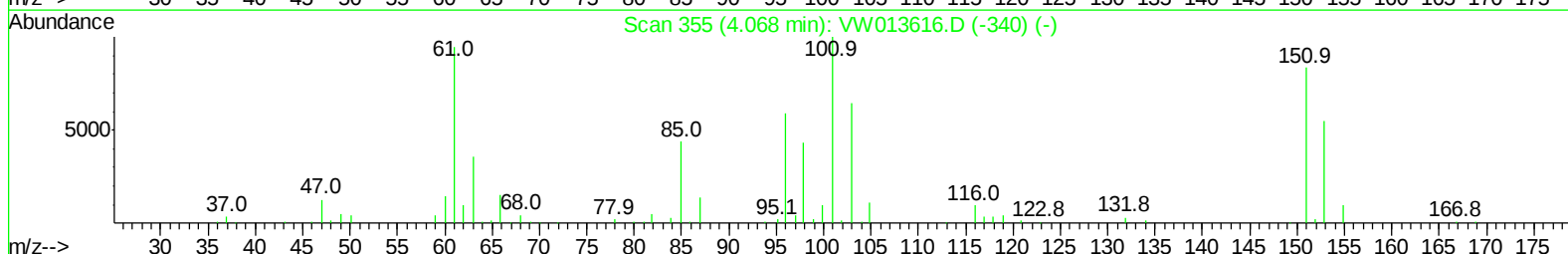
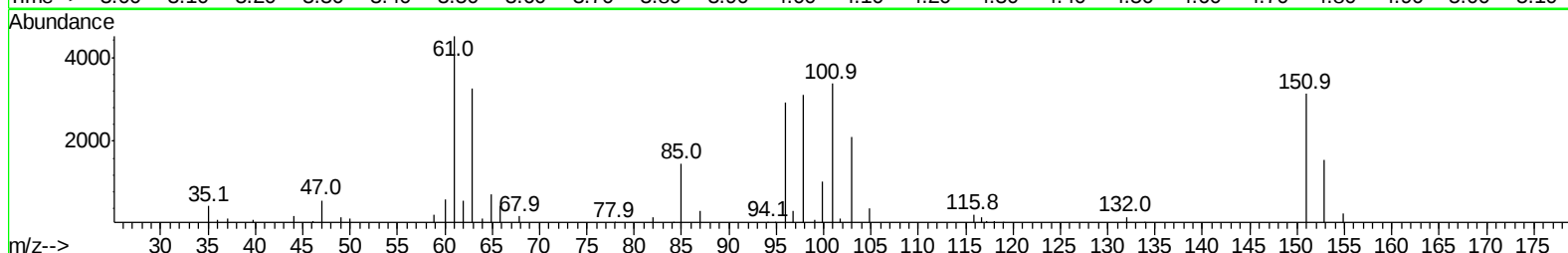
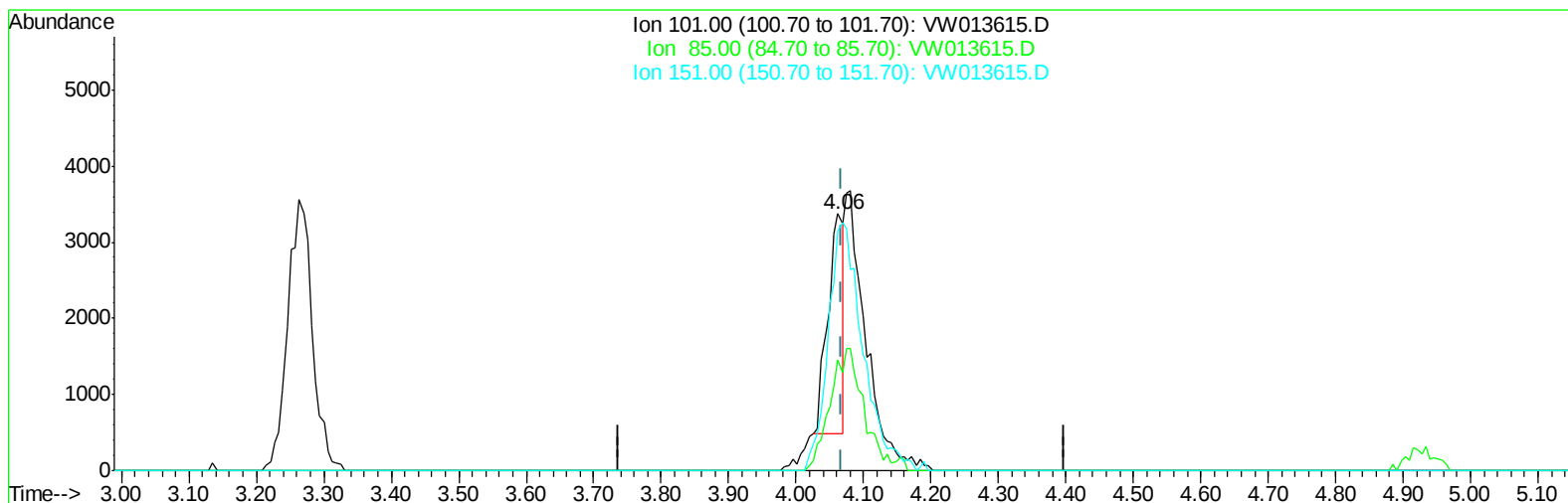
Quant Time: Oct 18 11:41:24 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M

Quant Title : VOC Analysis

QLast Update : Fri Oct 18 11:37:41 2019

Response via : Initial Calibration



TIC: VW013615.D

(11) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

4.062min (-0.006) 1.07ug/L

response 4510

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 101.00 | 100   | 100     |
| 85.00  | 40.00 | 108.58# |
| 151.00 | 83.60 | 249.14# |
| 0.00   | 0.00  | 0.00    |

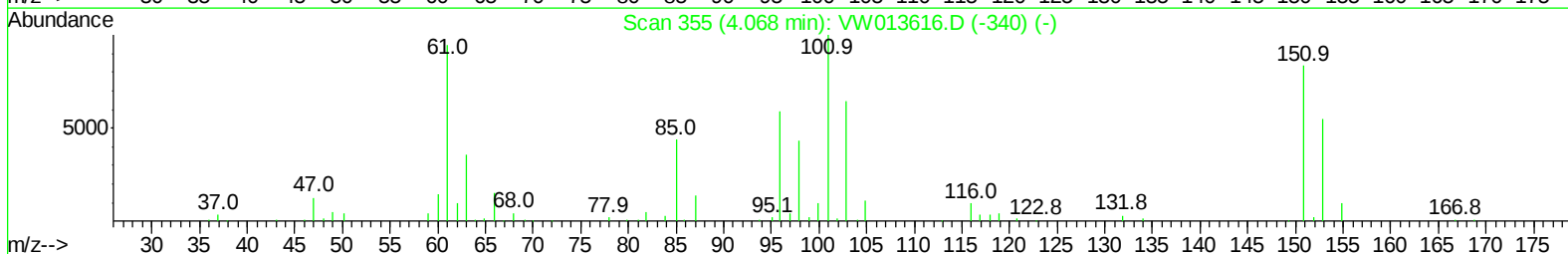
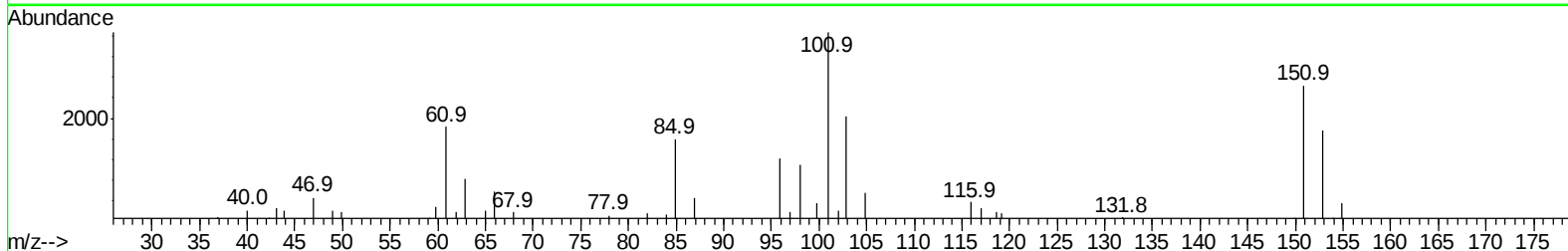
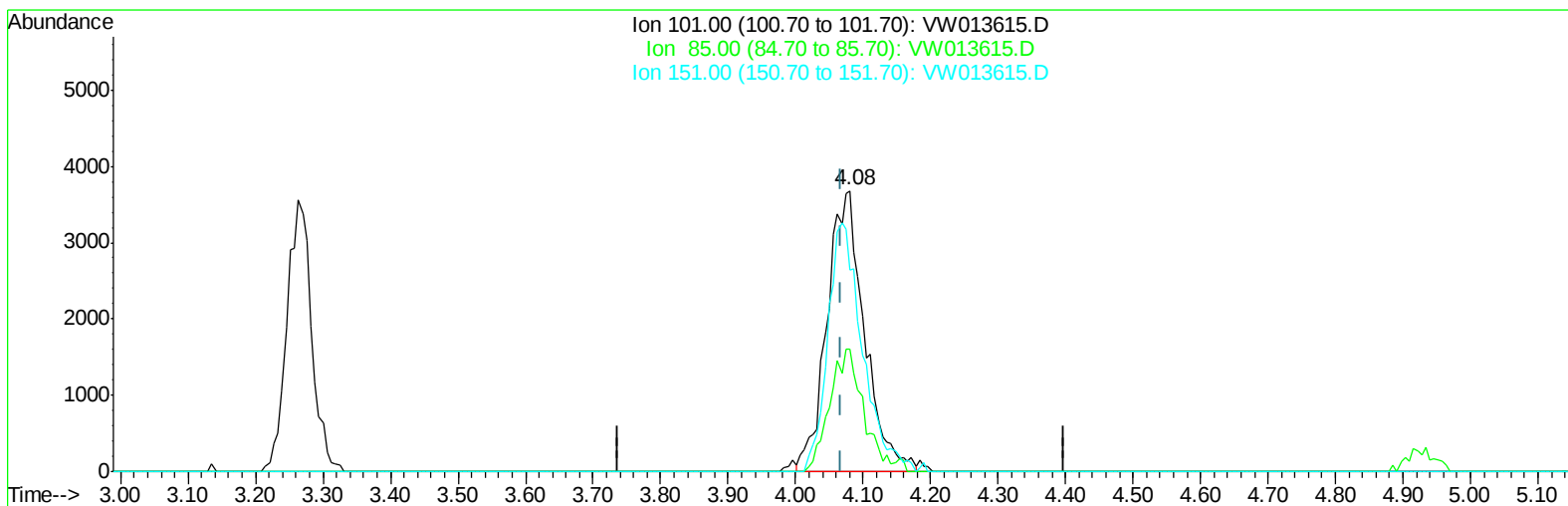
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TIC: VW013615.D

(11) 1,1,2-Trichloro-1,2,2-trifluoroethane (T)

4.080min (+0.012) 3.38ug/L m

response 14166

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 101.00 | 100   | 100   |
| 85.00  | 40.00 | 34.57 |
| 151.00 | 83.60 | 79.32 |
| 0.00   | 0.00  | 0.00  |

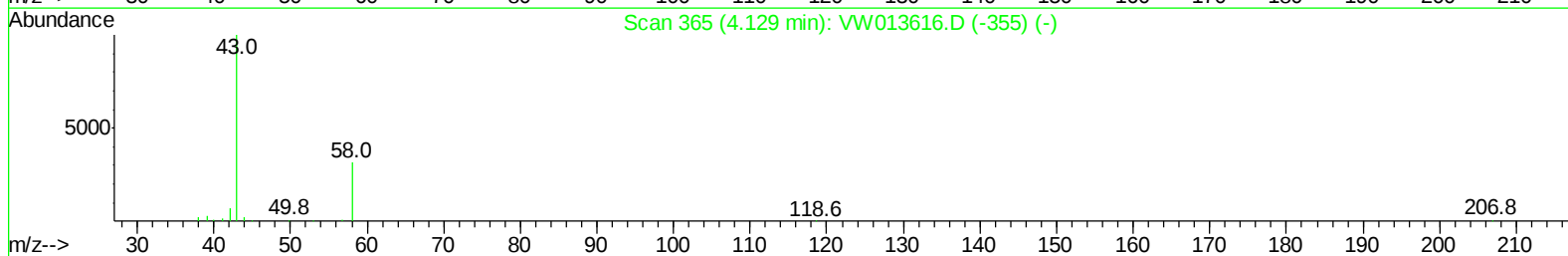
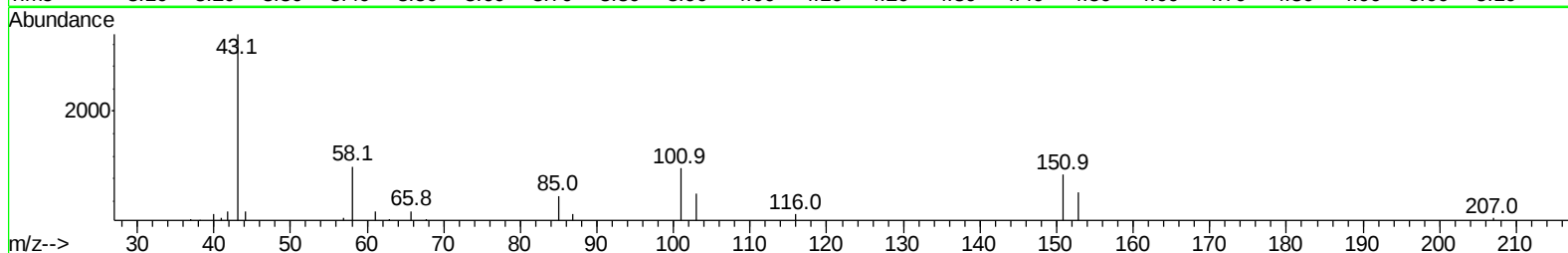
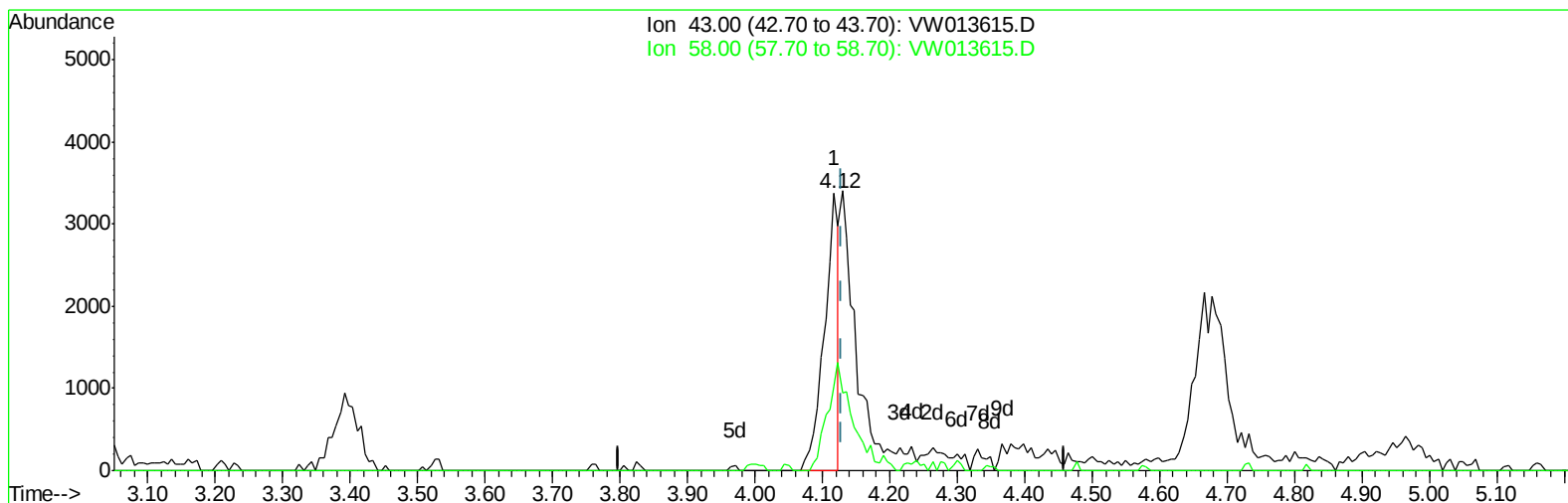
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QLast Update : Fri Oct 18 11:37:41 2019  
Response via : Initial Calibration



TIC: VW013615.D

(13) Acetone (T)

4.117min (-0.012) 3.77ug/L

response 5005

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 58.00 | 35.20 | 62.80 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

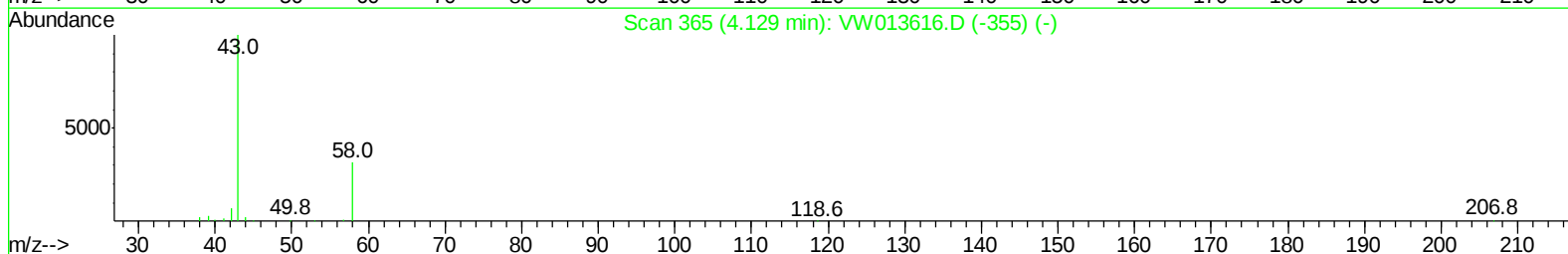
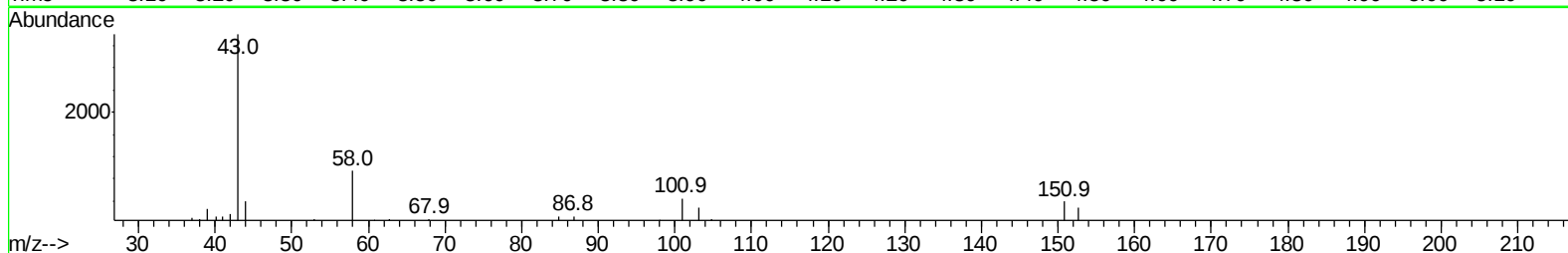
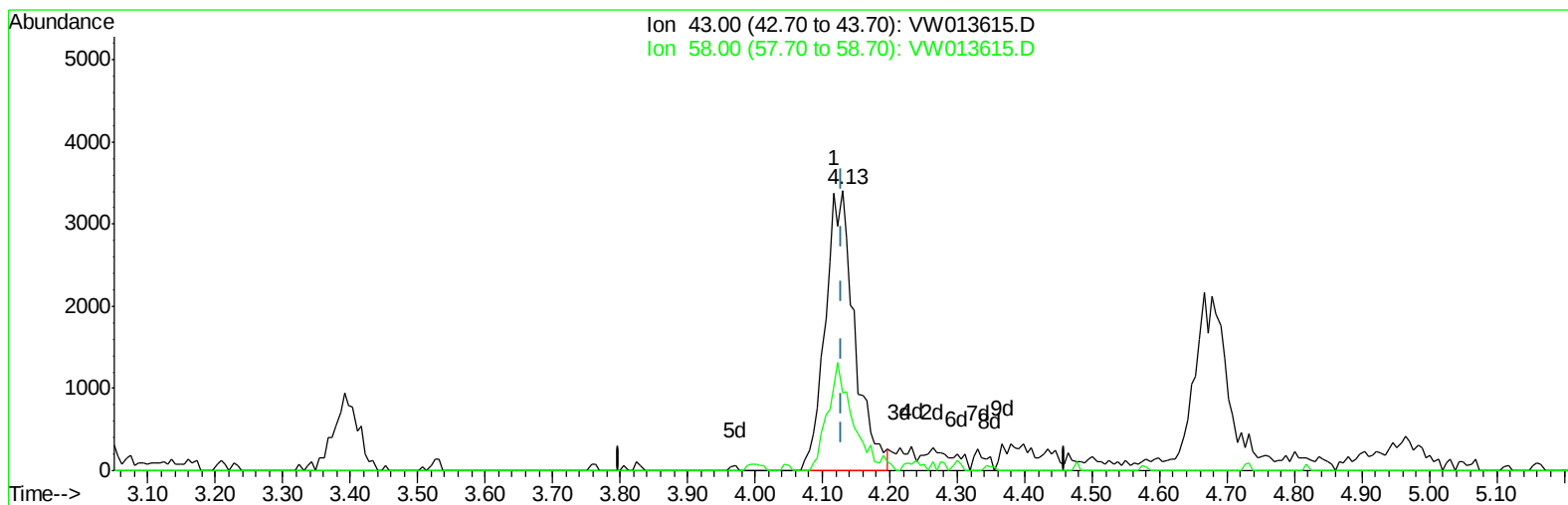
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Misc : 5.00G/10ML/MSVOA\_W/SOIL  
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TIC: VW013615.D

(13) Acetone (T)

4.129min (+0.000) 7.78ug/L m

response 10317

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 58.00 | 35.20 | 30.46 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

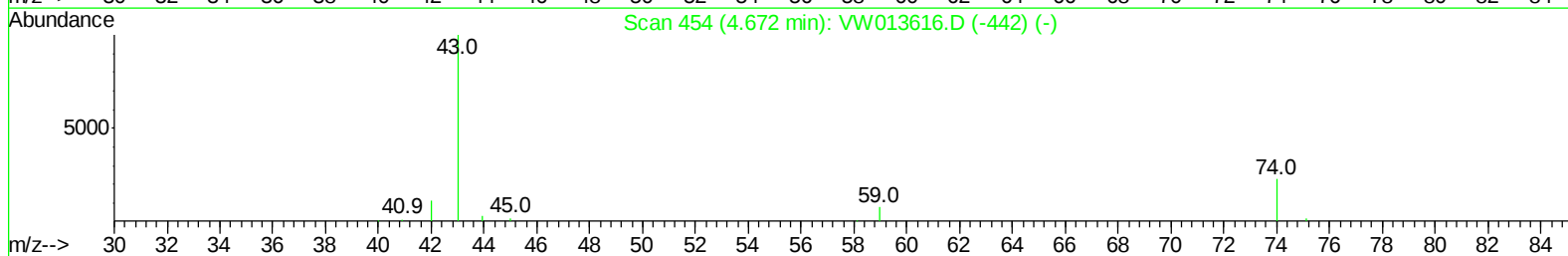
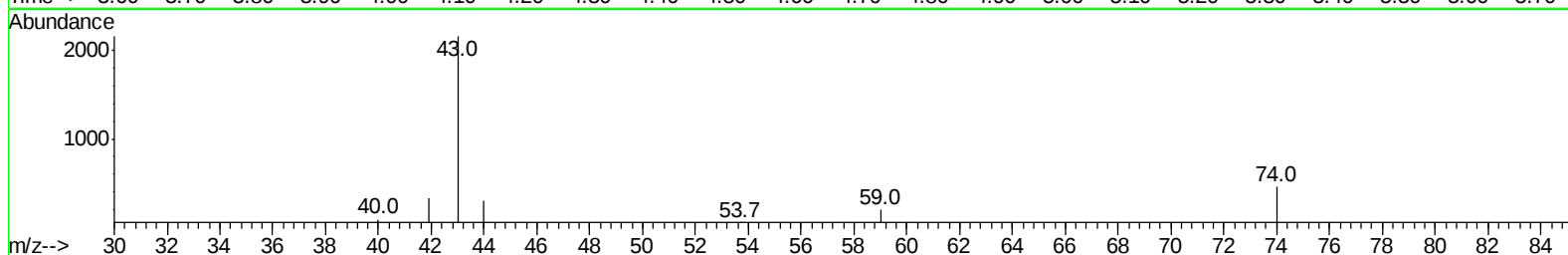
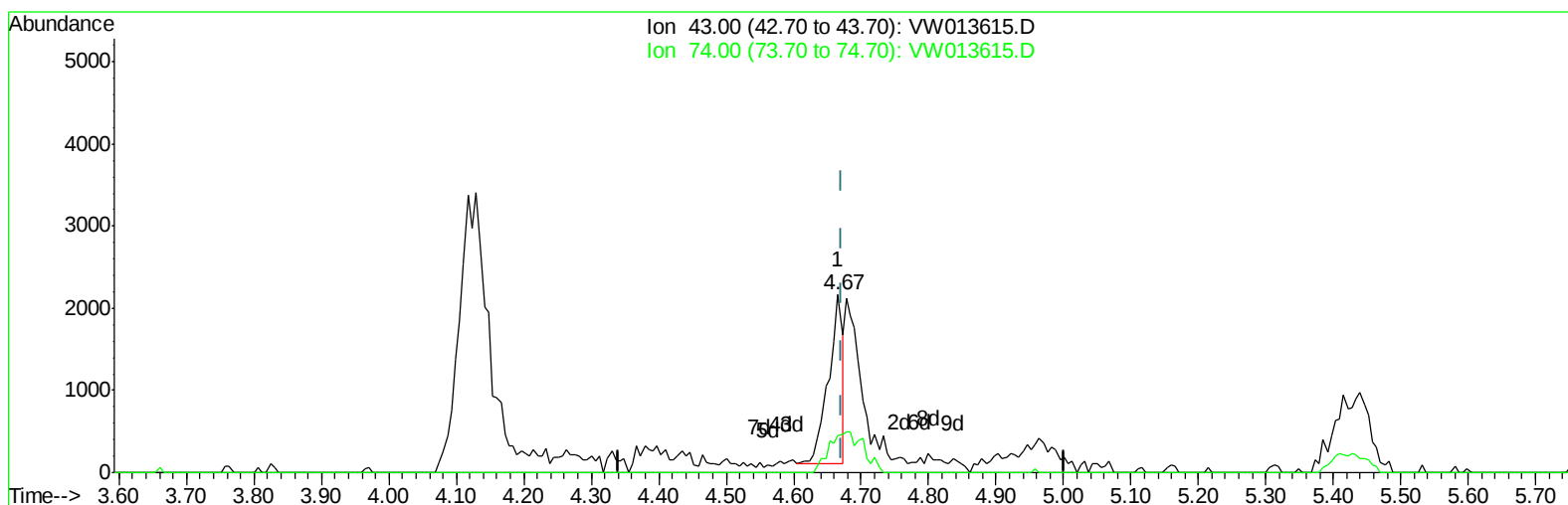
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Operator : SY/VA  
Sample : VSTD00522  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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TIC: VW013615.D

(15) Methyl Acetate (T)

4.666min (-0.006) 1.42ug/L

response 2933

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 43.00 | 100   | 100    |
| 74.00 | 24.00 | 42.24# |
| 0.00  | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

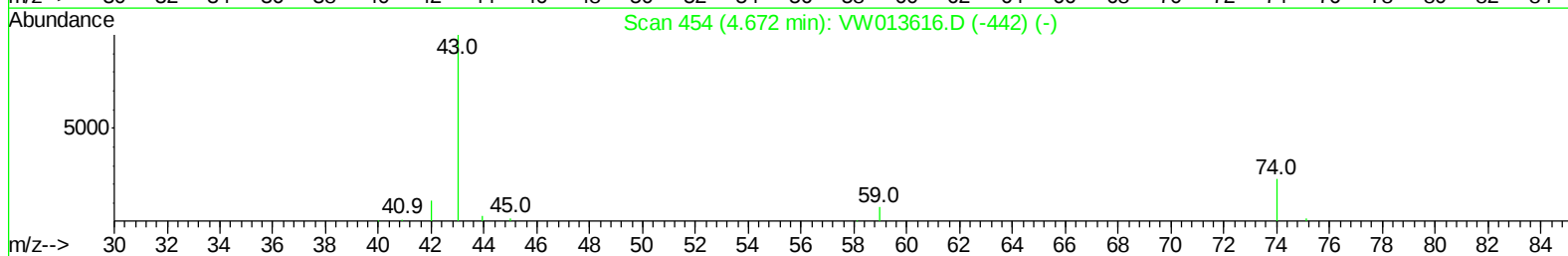
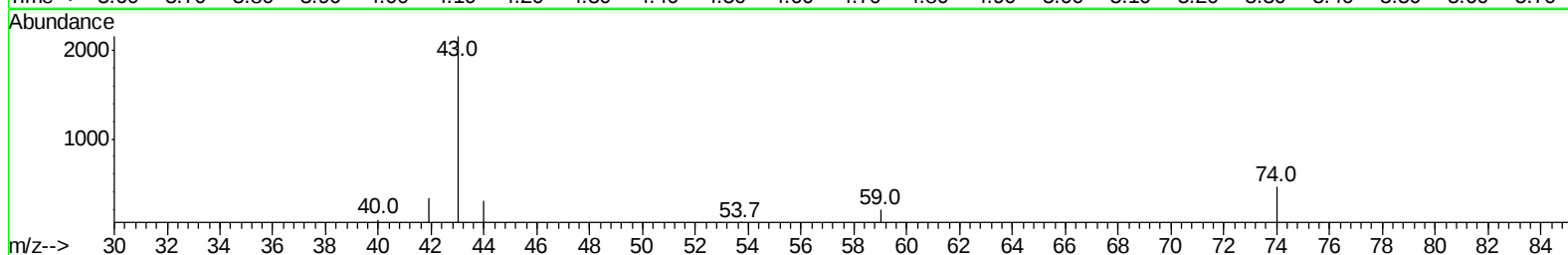
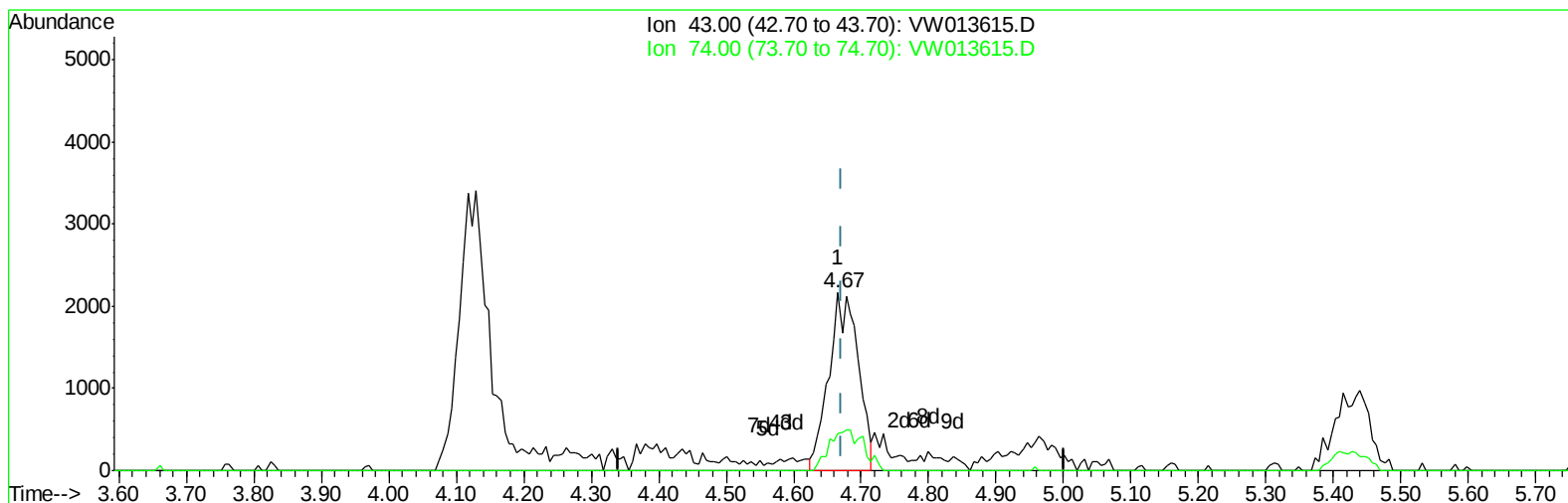
Data File : VW013615.D  
Acq On : 18 Oct 2019 10:23  
Operator : SY/VA  
Sample : VSTD00522  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Manual Integrations  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 18 11:37:41 2019  
Response via : Initial Calibration



TIC: VW013615.D

(15) Methyl Acetate (T)

4.666min (-0.006) 3.17ug/L m

response 6565

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 43.00 | 100   | 100    |
| 74.00 | 24.00 | 18.87# |
| 0.00  | 0.00  | 0.00   |
| 0.00  | 0.00  | 0.00   |

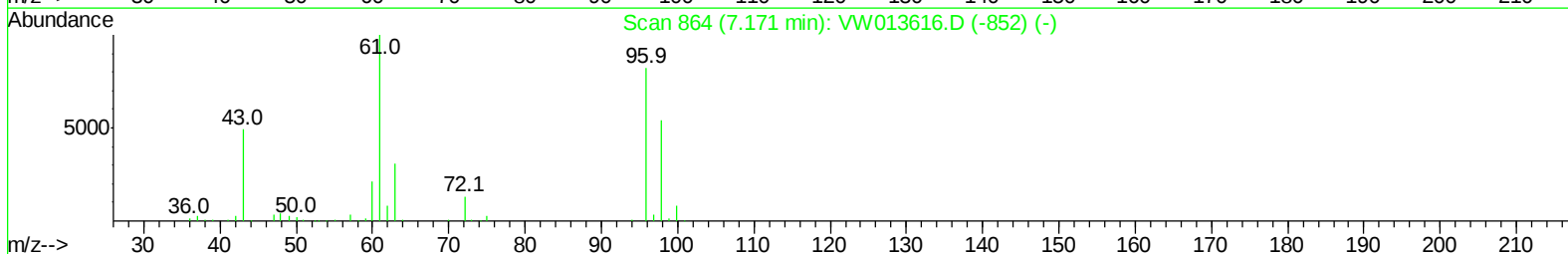
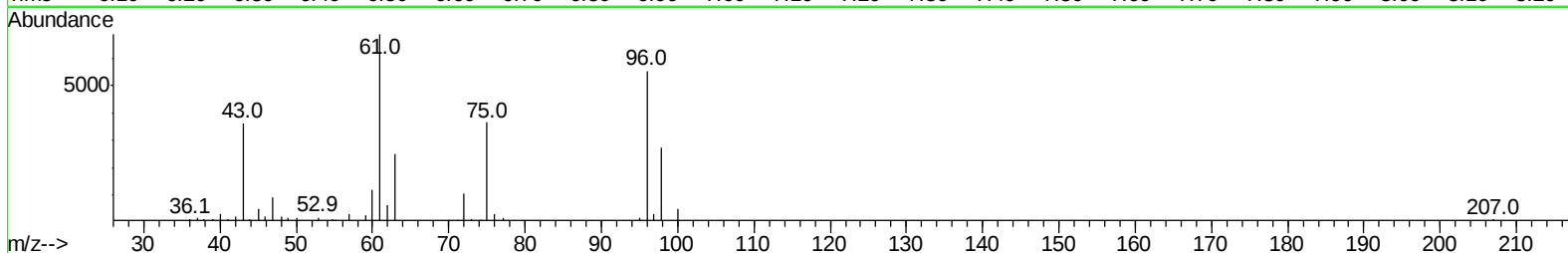
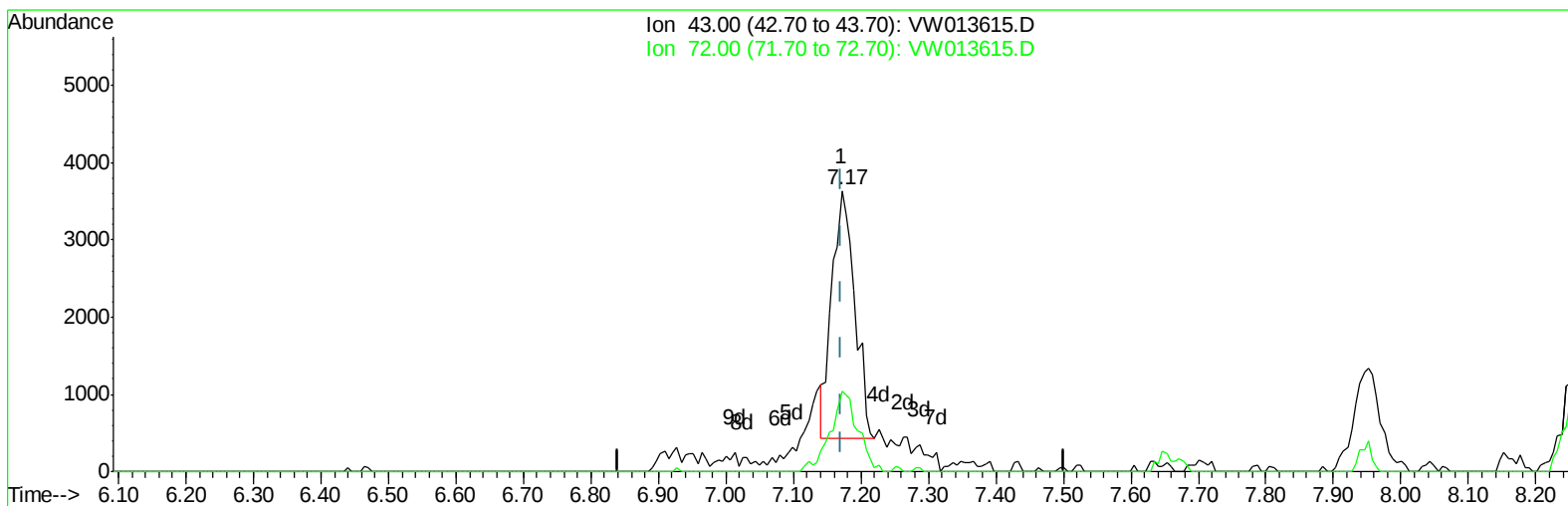
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Instrument :  
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TIC: VW013615.D

(21) 2-Butanone

7.171min (+0.000) 4.62ug/L

response 7492

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 27.40 | 37.92 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

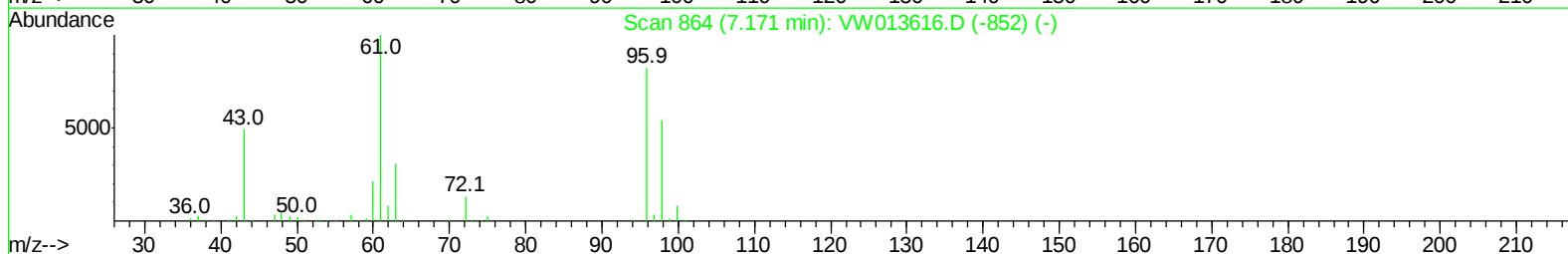
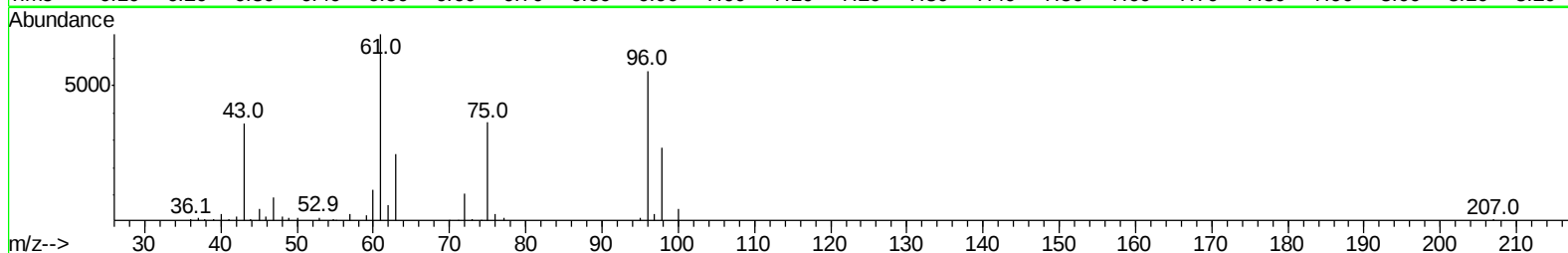
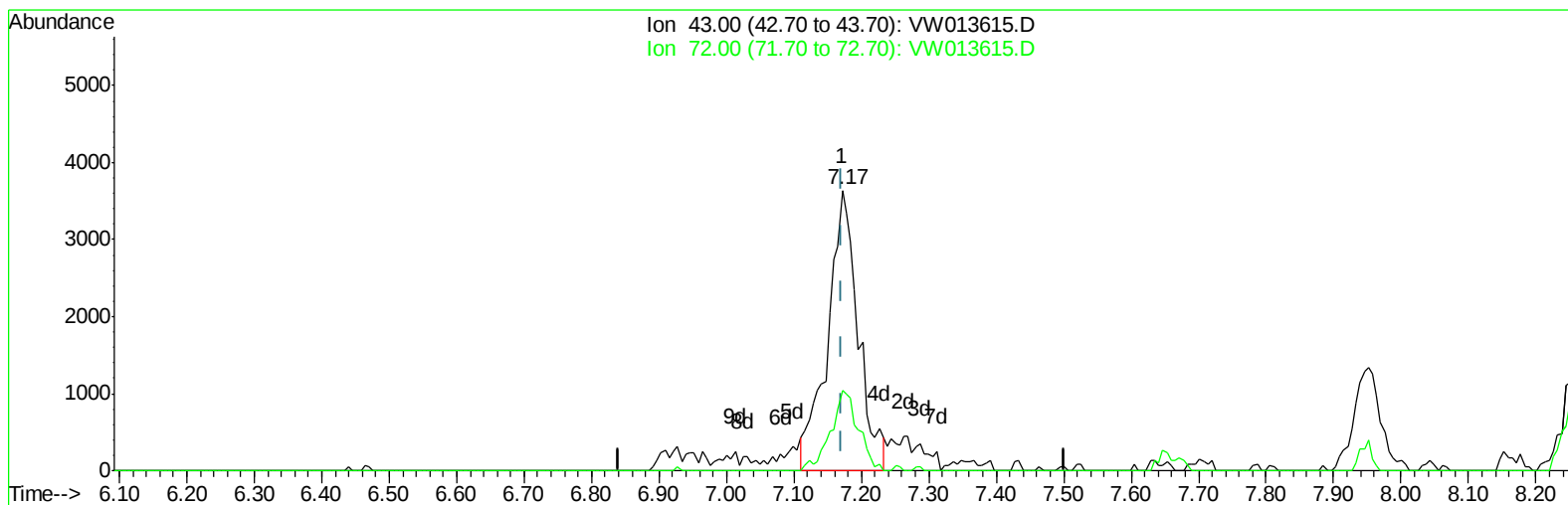
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Operator : SY/VA  
Sample : VSTD00522  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
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Manual Integrations  
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TIC: VW013615.D

(21) 2-Butanone

7.171min (+0.000) 7.04ug/L m

response 11429

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 27.40 | 24.86 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

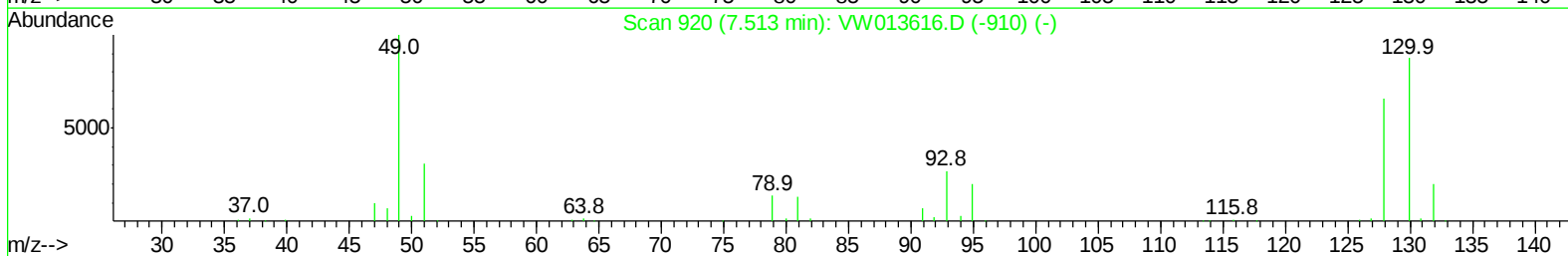
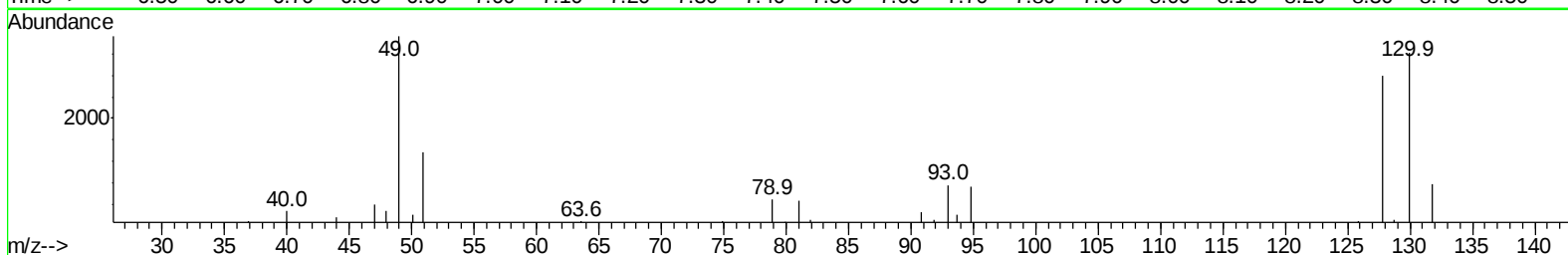
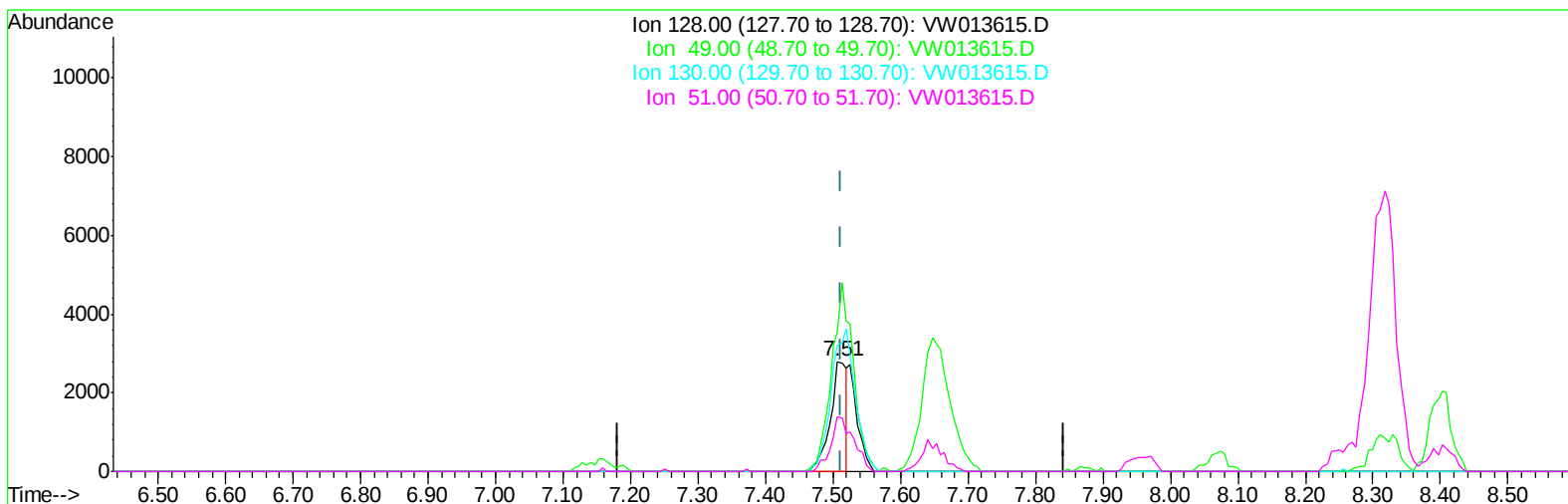
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TIC: VW013615.D

(23) Bromochloromethane (T)

7.507min (-0.006) 2.16ug/L

response 4630

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100    | 100    |
| 49.00  | 151.80 | 121.18 |
| 130.00 | 133.20 | 110.44 |
| 51.00  | 46.70  | 47.41  |

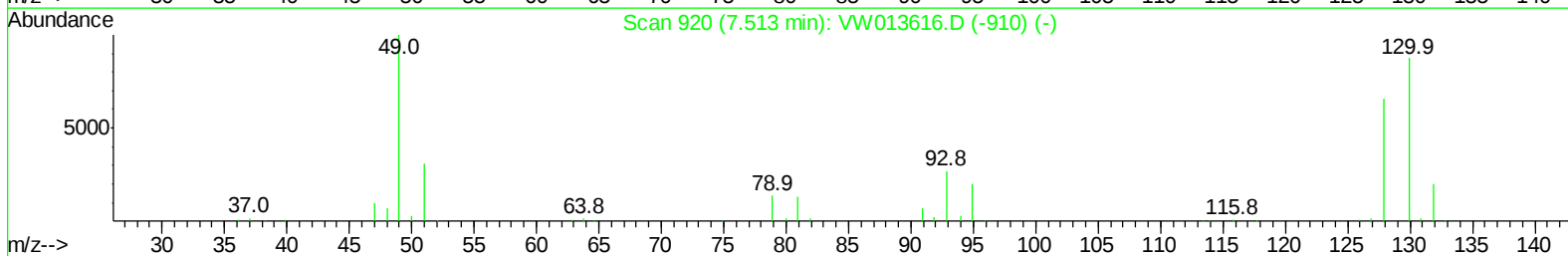
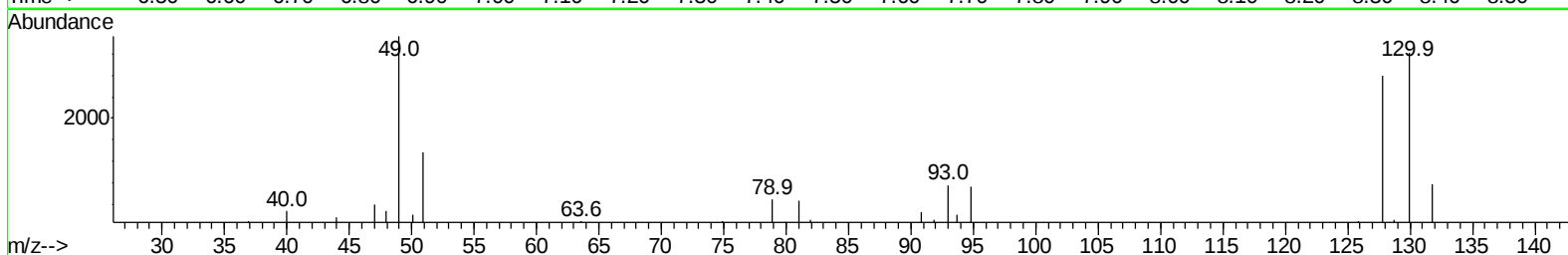
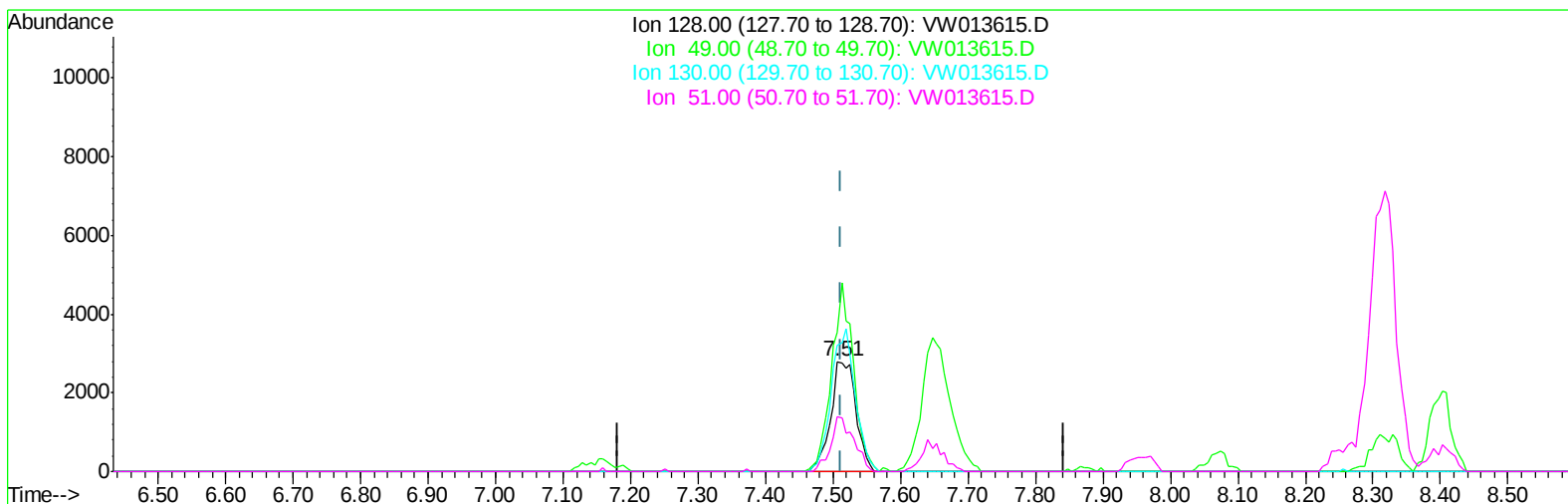
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Response via : Initial Calibration



TIC: VW013615.D

(23) Bromochloromethane (T)

7.507min (-0.006) 3.39ug/L m

response 7273

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100    | 100    |
| 49.00  | 151.80 | 126.12 |
| 130.00 | 133.20 | 114.93 |
| 51.00  | 46.70  | 49.34  |

Data File : VW013615.D  
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Manual Integrations  
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Quant Time: Oct 18 11:46:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis  
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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 334891   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 322934   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 194873   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.36  | 65  | 21424  | 5.59  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 21952  | 7.46  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 4.02  | 63  | 42256  | 5.31  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 14365  | 12.44 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 49766  | 6.84  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 25920  | 6.88  | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 106996 | 6.19  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 30863  | 6.01  | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 97783  | 5.96  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 12791  | 5.59  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.92 | 63  | 11117  | 10.83 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 25417  | 6.18  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 35931  | 5.13  | ug/L | 0.00 |

#### Target Compounds

|                                |       |     |        |            | Qvalue |
|--------------------------------|-------|-----|--------|------------|--------|
| 2) Dichlorodifluoromethane     | 2.02  | 85  | 8487   | 4.651 ug/L | 93     |
| 3) Chloromethane               | 2.21  | 50  | 9717   | 3.031 ug/L | 88     |
| 5) Vinyl chloride              | 2.37  | 62  | 11985  | 2.642 ug/L | 91     |
| 6) Bromomethane                | 2.78  | 94  | 9038   | 3.253 ug/L | 97     |
| 8) Chloroethane                | 2.93  | 64  | 8613   | 3.385 ug/L | 94     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 9056   | 3.829 ug/L | 97     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.08  | 101 | 14166m | 3.375 ug/L |        |
| 12) 1,1-Dichloroethene         | 4.05  | 96  | 12807  | 3.046 ug/L | 75     |
| 13) Acetone                    | 4.13  | 43  | 10317m | 7.775 ug/L |        |
| 14) Carbon disulfide           | 4.39  | 76  | 33294  | 2.595 ug/L | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 6565m  | 3.172 ug/L |        |
| 16) Methylene chloride         | 4.93  | 84  | 19253  | 3.796 ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 5.43  | 73  | 17185  | 2.544 ug/L | # 66   |
| 18) trans-1,2-Dichloroethene   | 5.43  | 96  | 13832  | 3.083 ug/L | 93     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 24493  | 3.252 ug/L | 97     |
| 21) 2-Butanone                 | 7.17  | 43  | 11429m | 7.041 ug/L |        |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 15090  | 3.145 ug/L | 94     |
| 23) Bromochloromethane         | 7.51  | 128 | 7273m  | 3.385 ug/L |        |
| 25) Chloroform                 | 7.68  | 83  | 24935  | 3.356 ug/L | 97     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 15643  | 3.329 ug/L | 95     |
| 30) Cyclohexane                | 7.96  | 56  | 21955  | 2.586 ug/L | 98     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 18757  | 2.884 ug/L | 98     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 17842  | 2.860 ug/L | 100    |
| 34) Benzene                    | 8.32  | 78  | 58061  | 2.976 ug/L | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 14968  | 2.941 ug/L | 100    |
| 36) Methylcyclohexane          | 9.34  | 83  | 25157  | 2.718 ug/L | 96     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 14546  | 3.095 ug/L | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 16545  | 2.866 ug/L | 99     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 19974  | 2.649 ug/L | 97     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 19283  | 5.880 ug/L | 95     |

Data File : VW013615.D  
Acq On : 18 Oct 2019 10:23  
Operator : SY/VA  
Sample : VSTD00522  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

Manual Integrations  
APPROVED

MMDadoda  
10/21/2019 2:45:07 PM

Quant Time: Oct 18 11:46:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 18 11:37:41 2019  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                   | 10.39 | 91   | 61241    | 2.897 | ug/L   | 96       |
| 45) trans-1,3-Dichloropropene | 10.60 | 75   | 16617    | 2.791 | ug/L   | 95       |
| 46) 1,1,2-Trichloroethane     | 10.79 | 97   | 10160    | 2.848 | ug/L   | 96       |
| 47) Tetrachloroethene         | 10.86 | 164  | 14504    | 3.127 | ug/L   | 92       |
| 49) 2-Hexanone                | 10.97 | 43   | 13335    | 5.595 | ug/L   | 96       |
| 50) Dibromochloromethane      | 11.13 | 129  | 12184    | 2.901 | ug/L   | 99       |
| 51) 1,2-Dibromoethane         | 11.24 | 107  | 10440    | 2.979 | ug/L   | 89       |
| 52) Chlorobenzene             | 11.66 | 112  | 40107    | 2.989 | ug/L   | 98       |
| 53) Ethylbenzene              | 11.73 | 91   | 67383    | 2.879 | ug/L   | 95       |
| 54) m,p-Xylene                | 11.84 | 106  | 25637    | 2.808 | ug/L   | 99       |
| 55) o-xylene                  | 12.16 | 106  | 23949    | 2.810 | ug/L   | 93       |
| 56) Styrene                   | 12.18 | 104  | 39168    | 2.699 | ug/L   | 98       |
| 57) Isopropylbenzene          | 12.46 | 105  | 62884    | 2.720 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane | 12.72 | 83   | 12748    | 3.024 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane    | 12.77 | 75   | 9509     | 3.021 | ug/L   | 97       |
| 62) Bromoform                 | 12.35 | 173  | 7327     | 2.338 | ug/L # | 96       |
| 63) 1,3-Dichlorobenzene       | 13.50 | 146  | 31499    | 2.412 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene       | 13.58 | 146  | 31763    | 2.444 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene       | 13.87 | 146  | 29392    | 2.503 | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene    | 14.63 | 180  | 23263    | 2.360 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene    | 15.13 | 180  | 18438    | 2.257 | ug/L   | 96       |
| 69) Naphthalene               | 15.37 | 128  | 30272    | 2.035 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene    | 15.55 | 180  | 16305    | 2.241 | ug/L   | 97       |

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

Data File : VW013615.D  
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Operator : SY/VA  
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Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD00504

Manual Integrations  
APPROVED

MMDadoda  
10/21/2019 2:45:07 PM

Quant Time: Oct 18 11:46:44 2019  
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