

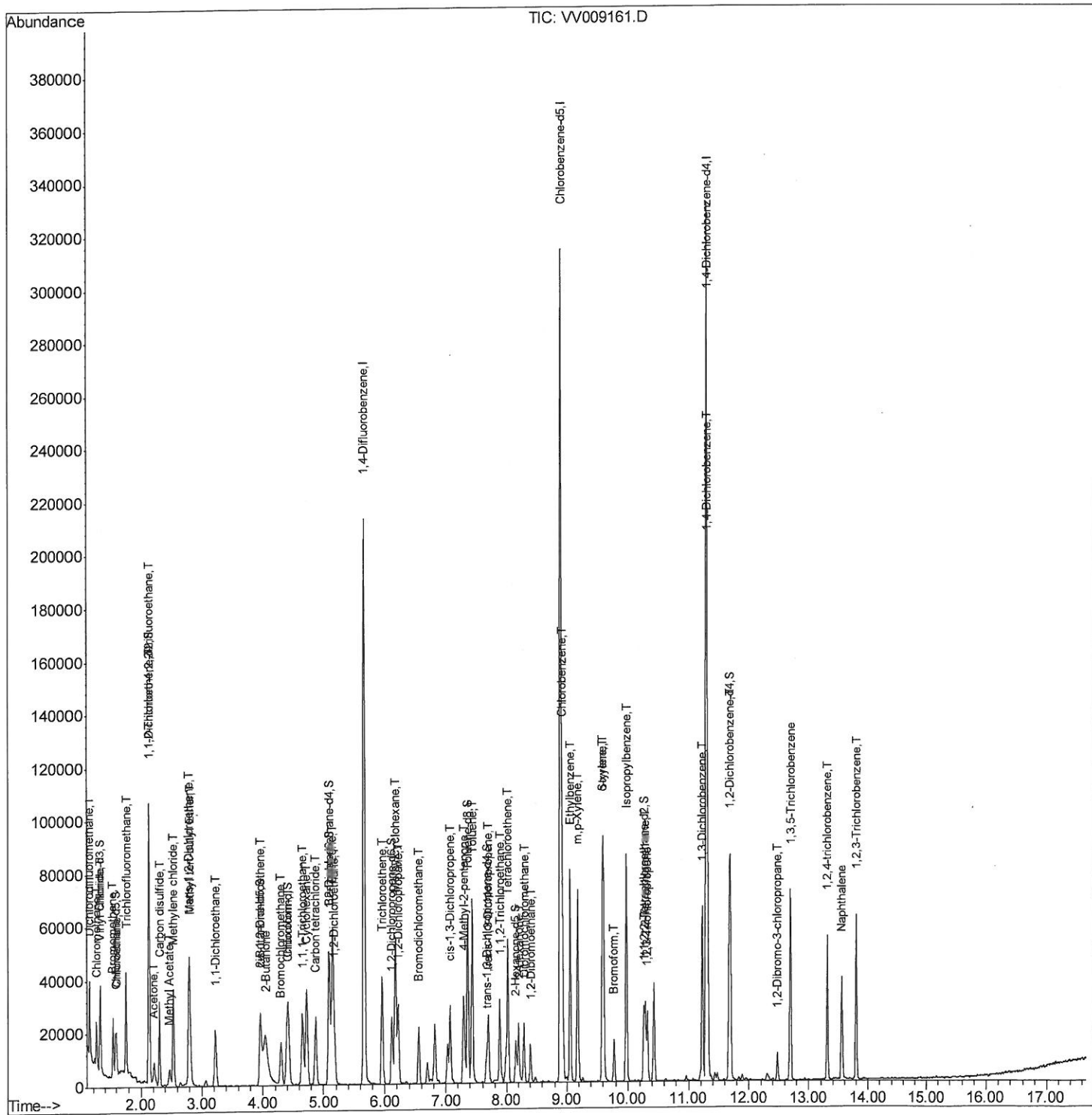
```
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VW010419\  
Data File : VV009161.D  
Acq On : 04 Jan 2019 14:41  
Operator : SY/MD  
Sample : VSTD00568  
Misc : 5.00 G/10ML/MSVOA_V/SOIL  
ALS Vial : 9 Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00568

## Manual Integrations

MMDadoda  
1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:44:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jan 05 04:20:20 2019  
Response via : Initial Calibration



# Quantitation Report (Qedit)

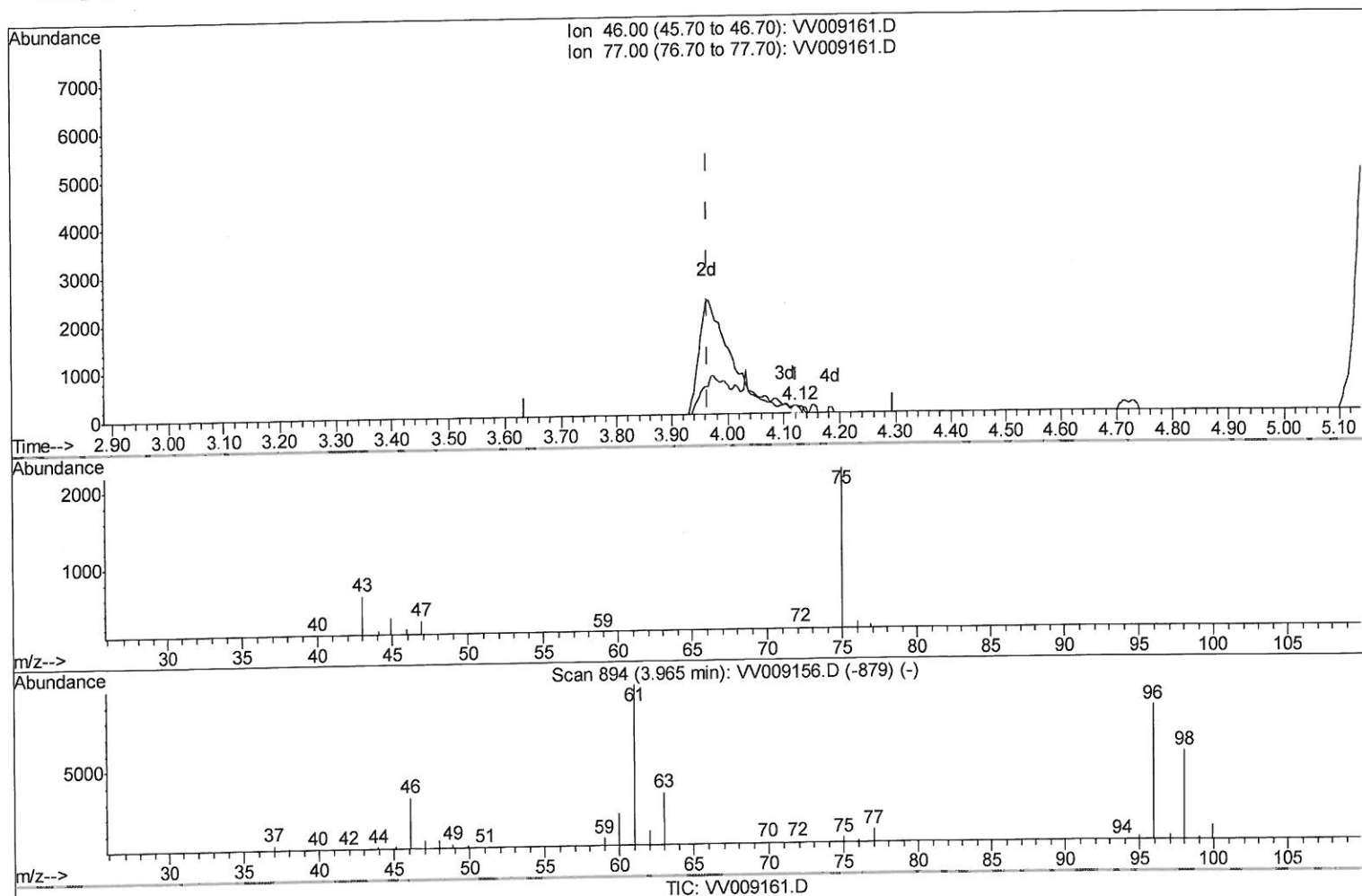
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
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Manual Integrations  
 APPROVED

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 1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:25:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM010419S.M  
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(20) 2-Butanone-d5 (S)

4.119min (+0.154) 0.21ug/L

response 190

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 19.90 | 23.16 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

# Quantitation Report (Qedit)

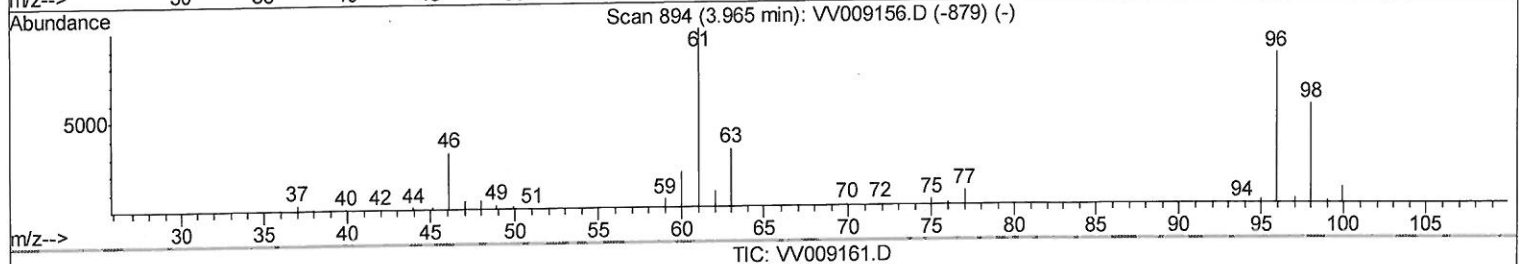
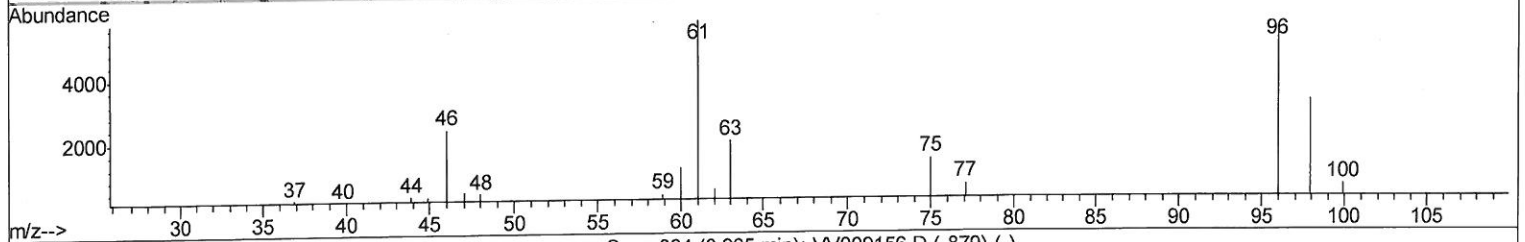
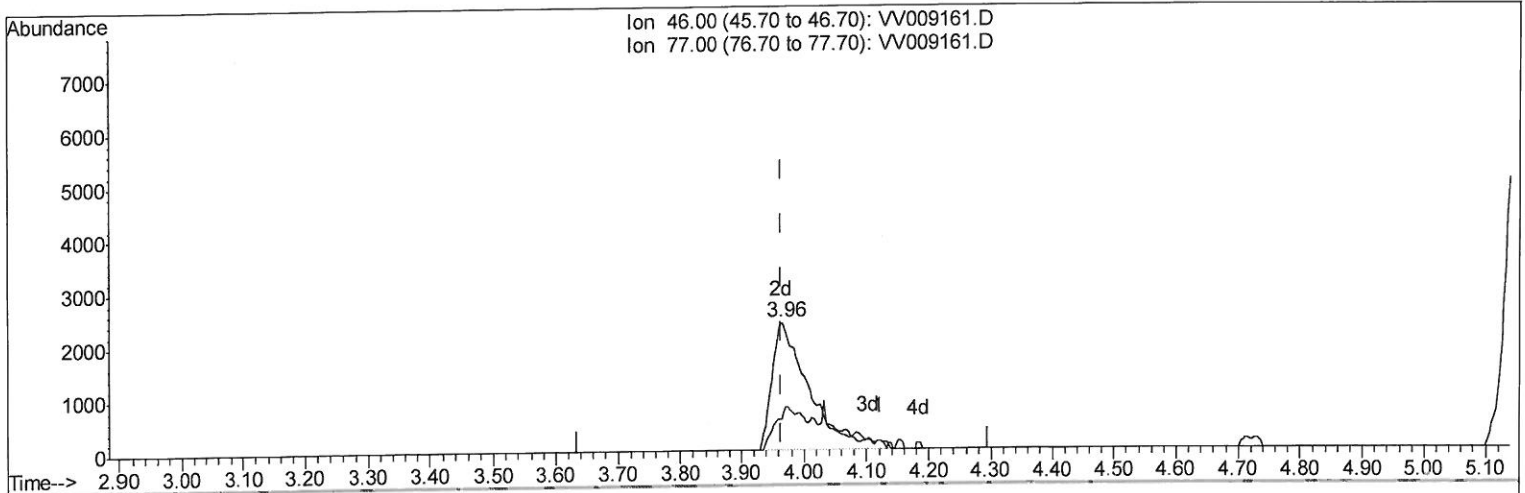
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
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(20) 2-Butanone-d5 (S)

3.965min (-0.000) 10.96ug/L m

response 9846

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 19.90 | 0.45# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

> 01/07/19 Sy

# Quantitation Report (Qedit)

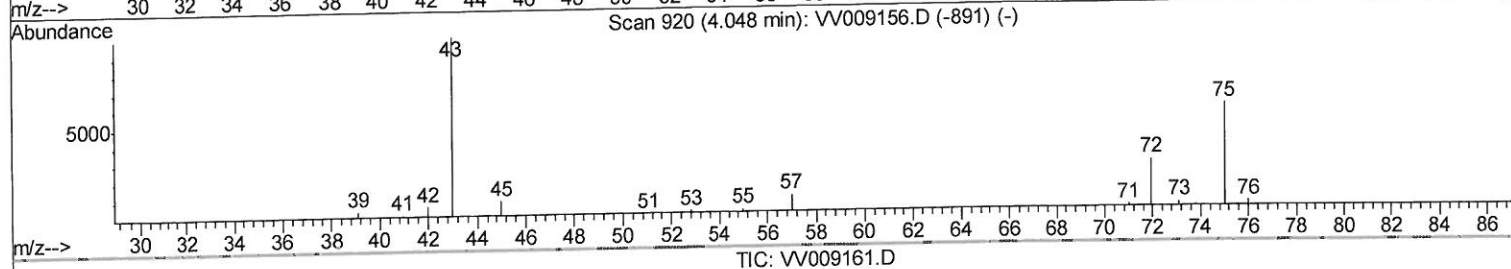
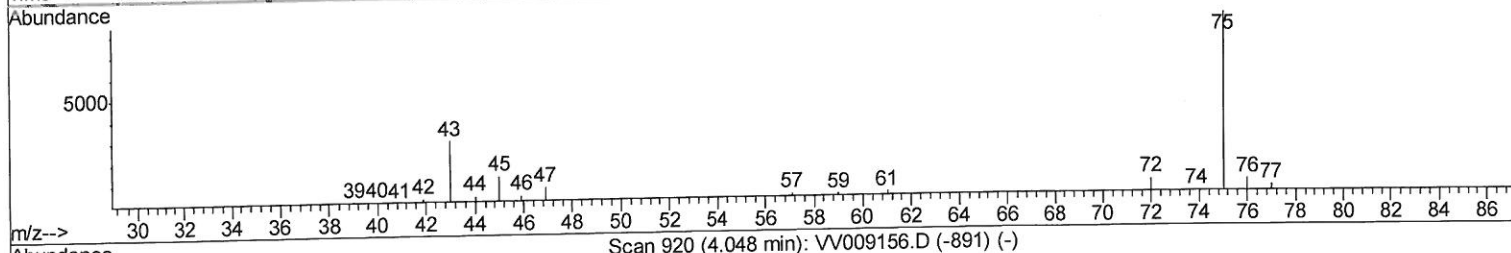
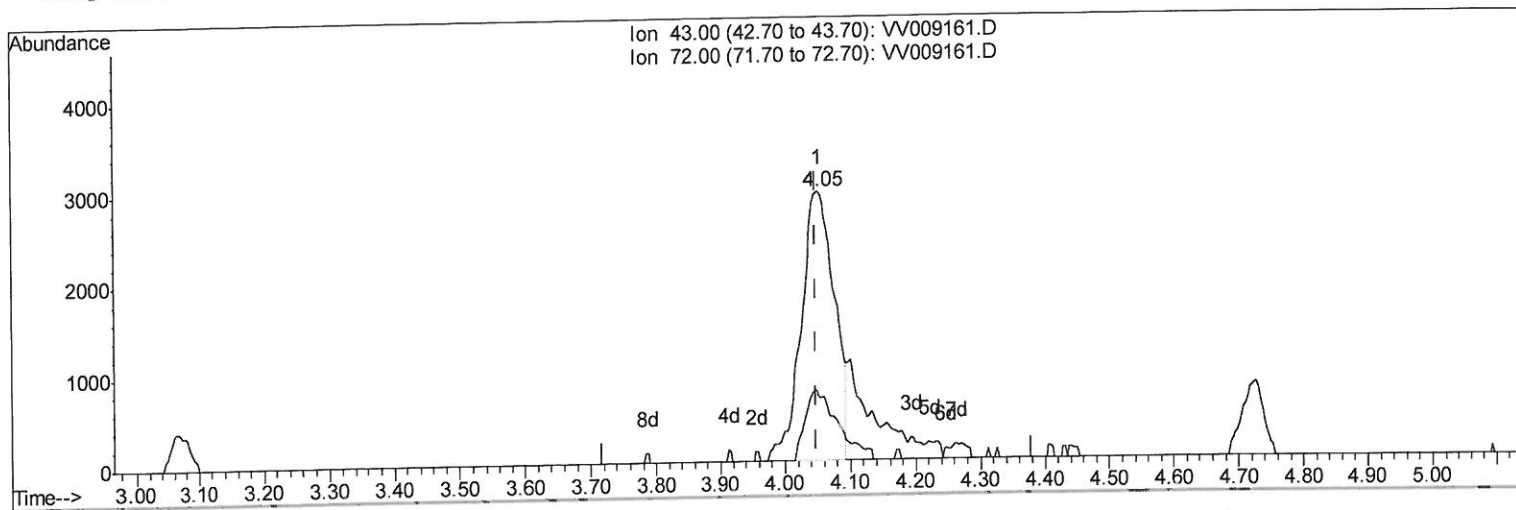
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
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 MSVOA\_V  
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(21) 2-Butanone  
 4.052min (+0.003) 8.75ug/L  
 response 10401

| Ion   | Exp% | Act%   |
|-------|------|--------|
| 43.00 | 100  | 100    |
| 72.00 | 0.10 | 12.09# |
| 0.00  | 0.00 | 0.00   |
| 0.00  | 0.00 | 0.00   |

# Quantitation Report (Qedit)

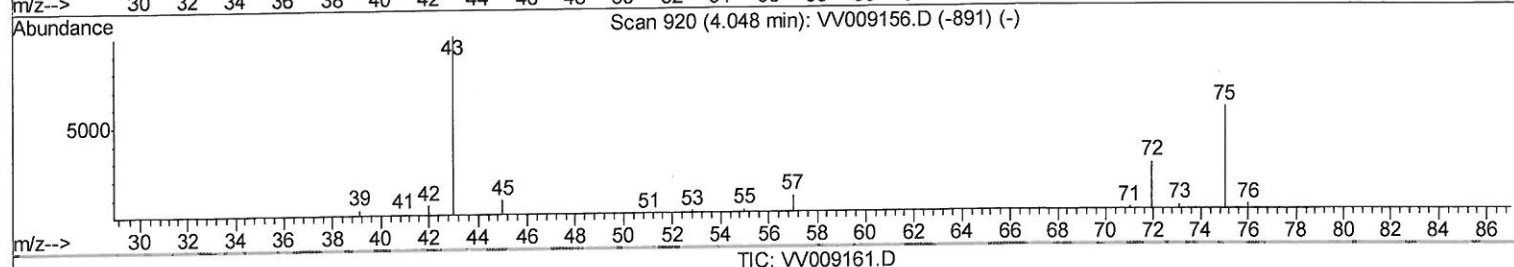
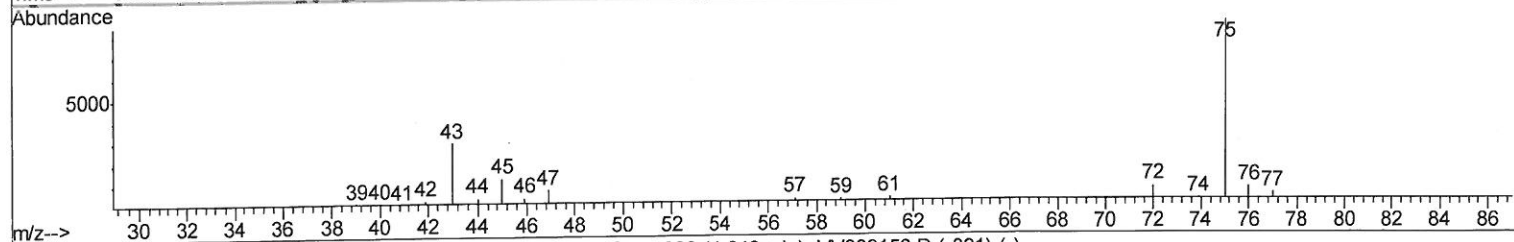
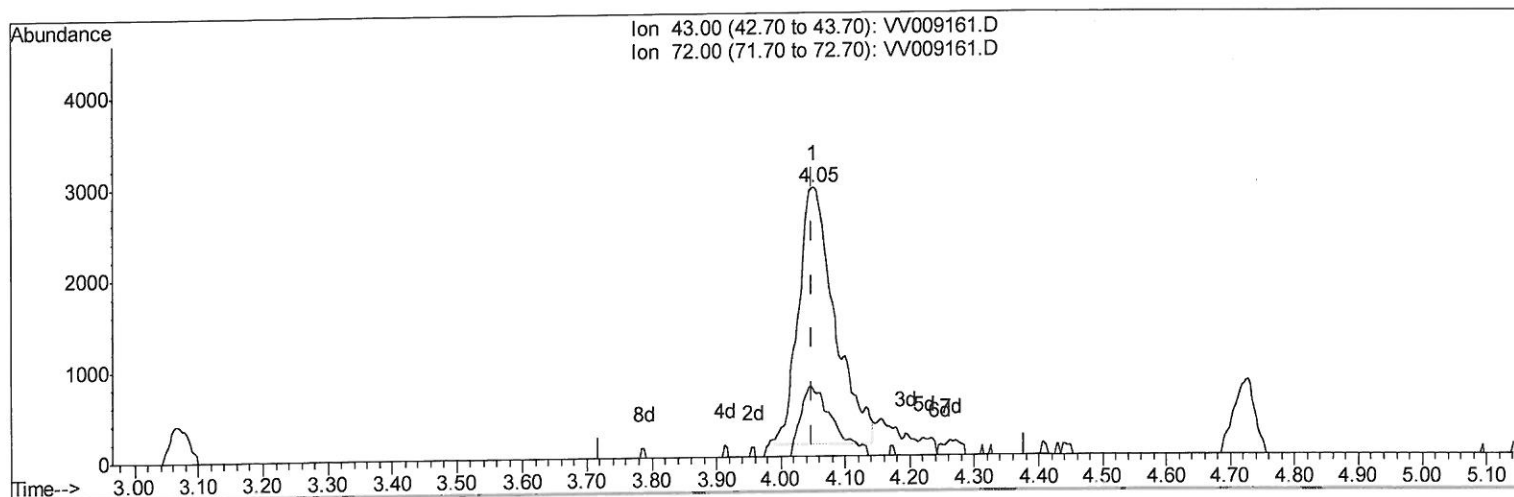
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV010419\  
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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00568

Manual Integrations  
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 Response via : Initial Calibration



(21) 2-Butanone

4.052min (+0.003) 9.19ug/L m

response 10928

| Ion   | Exp% | Act%   |
|-------|------|--------|
| 43.00 | 100  | 100    |
| 72.00 | 0.10 | 11.51# |
| 0.00  | 0.00 | 0.00   |
| 0.00  | 0.00 | 0.00   |

01/08/19 Sy

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 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 189518   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 173608   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 86263    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |      |      |
|--------------------------------|-------|-----|-------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 8372  | 6.46  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 7719  | 6.14  | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 25523 | 5.89  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 9846m | 10.96 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 23027 | 5.77  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 12234 | 5.73  | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 44917 | 5.81  | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 13248 | 5.97  | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 42257 | 5.79  | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 6017  | 5.72  | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.15  | 63  | 5211  | 9.96  | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 13153 | 5.40  | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 17633 | 6.05  | ug/L | 0.00 |

| Target Compounds               |      |     |        |        | Qvalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 16726  | 5.490  | ug/L 100  |
| 3) Chloromethane               | 1.25 | 50  | 11600  | 5.622  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 12167  | 5.507  | ug/L 96   |
| 6) Bromomethane                | 1.53 | 94  | 8482   | 5.451  | ug/L 99   |
| 8) Chloroethane                | 1.60 | 64  | 7549   | 5.545  | ug/L 100  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 21252  | 5.247  | ug/L 96   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 14099  | 5.227  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 12475  | 5.333  | ug/L 87   |
| 13) Acetone                    | 2.22 | 43  | 13440  | 10.399 | ug/L 91   |
| 14) Carbon disulfide           | 2.31 | 76  | 35590  | 5.324  | ug/L 100  |
| 15) Methyl Acetate             | 2.47 | 43  | 8117   | 5.076  | ug/L # 84 |
| 16) Methylene chloride         | 2.53 | 84  | 15358  | 5.424  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 28313  | 4.941  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 13279  | 5.356  | ug/L 96   |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 21270  | 5.166  | ug/L 95   |
| 21) 2-Butanone                 | 4.05 | 43  | 10928m | 9.194  | ug/L 98   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 13940  | 5.260  | ug/L 98   |
| 23) Bromochloromethane         | 4.30 | 128 | 6183   | 4.959  | ug/L 92   |
| 25) Chloroform                 | 4.42 | 83  | 22484  | 5.128  | ug/L 99   |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 15363  | 5.217  | ug/L 99   |
| 30) Cyclohexane                | 4.72 | 56  | 20348  | 5.287  | ug/L 95   |
| 31) 1,1,1-Trichloroethane      | 4.65 | 97  | 21385  | 5.067  | ug/L 99   |
| 32) Carbon tetrachloride       | 4.87 | 117 | 19784  | 5.121  | ug/L 97   |
| 34) Benzene                    | 5.14 | 78  | 47465  | 5.086  | ug/L 100  |
| 35) Trichloroethene            | 5.96 | 95  | 13787  | 5.128  | ug/L 98   |
| 36) Methylcyclohexane          | 6.17 | 83  | 23787  | 5.295  | ug/L 98   |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 11128  | 4.947  | ug/L 98   |
| 41) Bromodichloromethane       | 6.55 | 83  | 14938  | 4.845  | ug/L 96   |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 16697  | 4.684  | ug/L 100  |
| 43) 4-Methyl-2-pentanone       | 7.29 | 43  | 21009  | 9.798  | ug/L 96   |

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 1/8/2019 12:00:09 AM

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 QLast Update : Sat Jan 05 04:20:20 2019  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Toluene                    | 7.43  | 91   | 50738    | 5.042 | ug/L   | 96       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 14441    | 4.627 | ug/L   | 95       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 10087    | 5.073 | ug/L   | 96       |
| 47) Tetrachloroethene          | 8.02  | 164  | 12053    | 5.174 | ug/L   | 98       |
| 49) 2-Hexanone                 | 8.20  | 43   | 14535    | 9.211 | ug/L   | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 11465    | 4.694 | ug/L   | 94       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 10143    | 4.879 | ug/L   | 95       |
| 52) Chlorobenzene              | 8.93  | 112  | 35044    | 5.076 | ug/L   | 99       |
| 53) Ethylbenzene               | 9.05  | 91   | 57121    | 5.020 | ug/L   | 100      |
| 54) m,p-Xylene                 | 9.18  | 106  | 21948    | 4.951 | ug/L   | 93       |
| 55) o-xylene                   | 9.59  | 106  | 19936    | 4.863 | ug/L   | 98       |
| 56) Styrene                    | 9.60  | 104  | 33340    | 4.822 | ug/L   | 98       |
| 57) Isopropylbenzene           | 9.98  | 105  | 55977    | 4.922 | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 12420    | 4.662 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 10492    | 4.928 | ug/L   | 96       |
| 62) Bromoform                  | 9.78  | 173  | 7198     | 4.725 | ug/L   | 94       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 28375    | 5.221 | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 29545    | 5.215 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 26950    | 5.205 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 2420     | 4.502 | ug/L # | 79       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 22196    | 5.064 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 17596    | 4.932 | ug/L   | 98       |
| 69) Naphthalene                | 13.55 | 128  | 31405    | 4.321 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 15839    | 4.837 | ug/L   | 98       |

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