

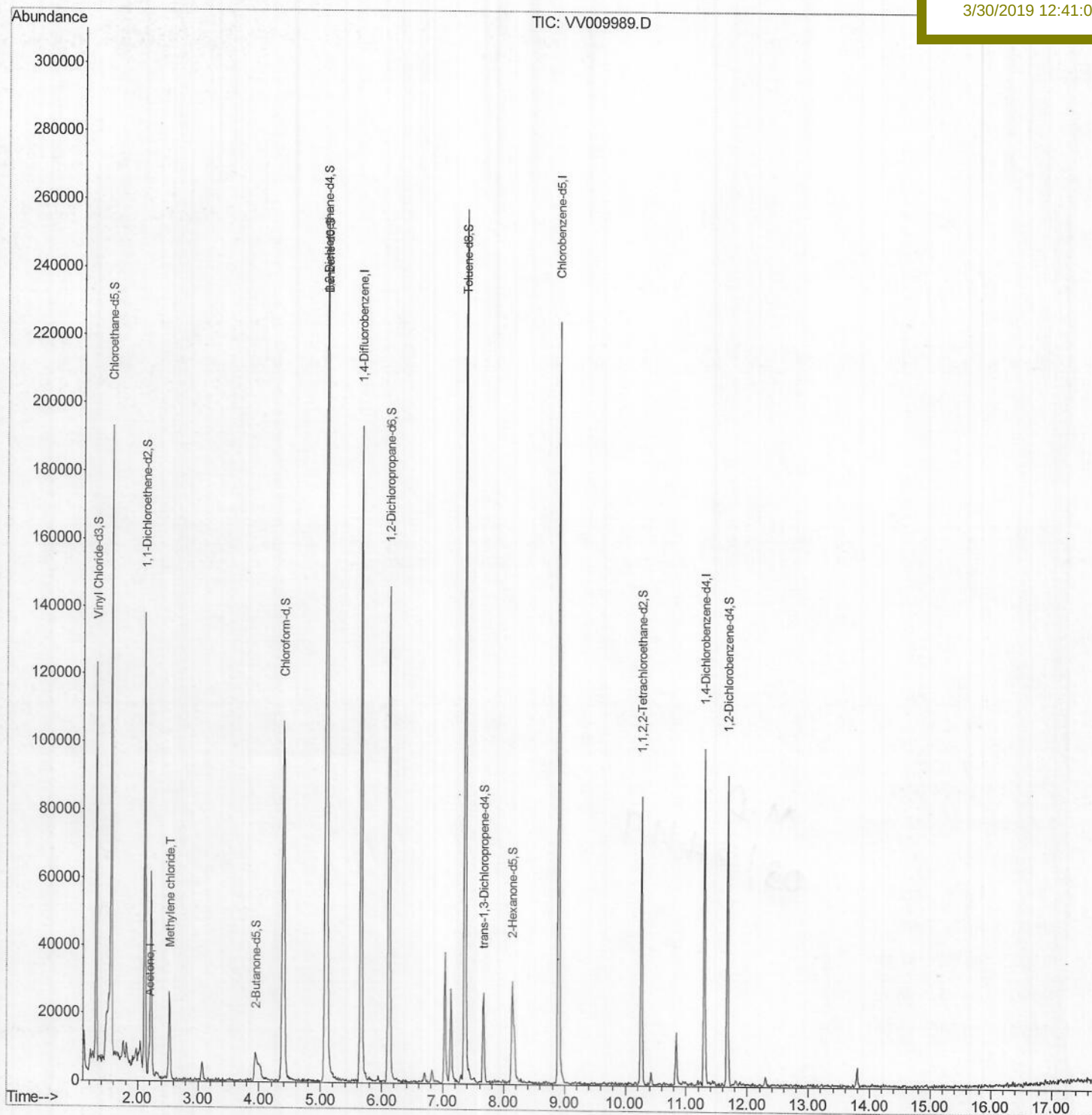
Data File : VV009989.D  
Acq On : 29 Mar 2019 02:41  
Operator : SY/MD  
Sample : K2120-04  
Misc : 5.14G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 04:57:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 29 04:20:29 2019  
Response via : Initial Calibration

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5C7

Manual Integrations  
APPROVED

MMDadoda  
3/30/2019 12:41:06 AM



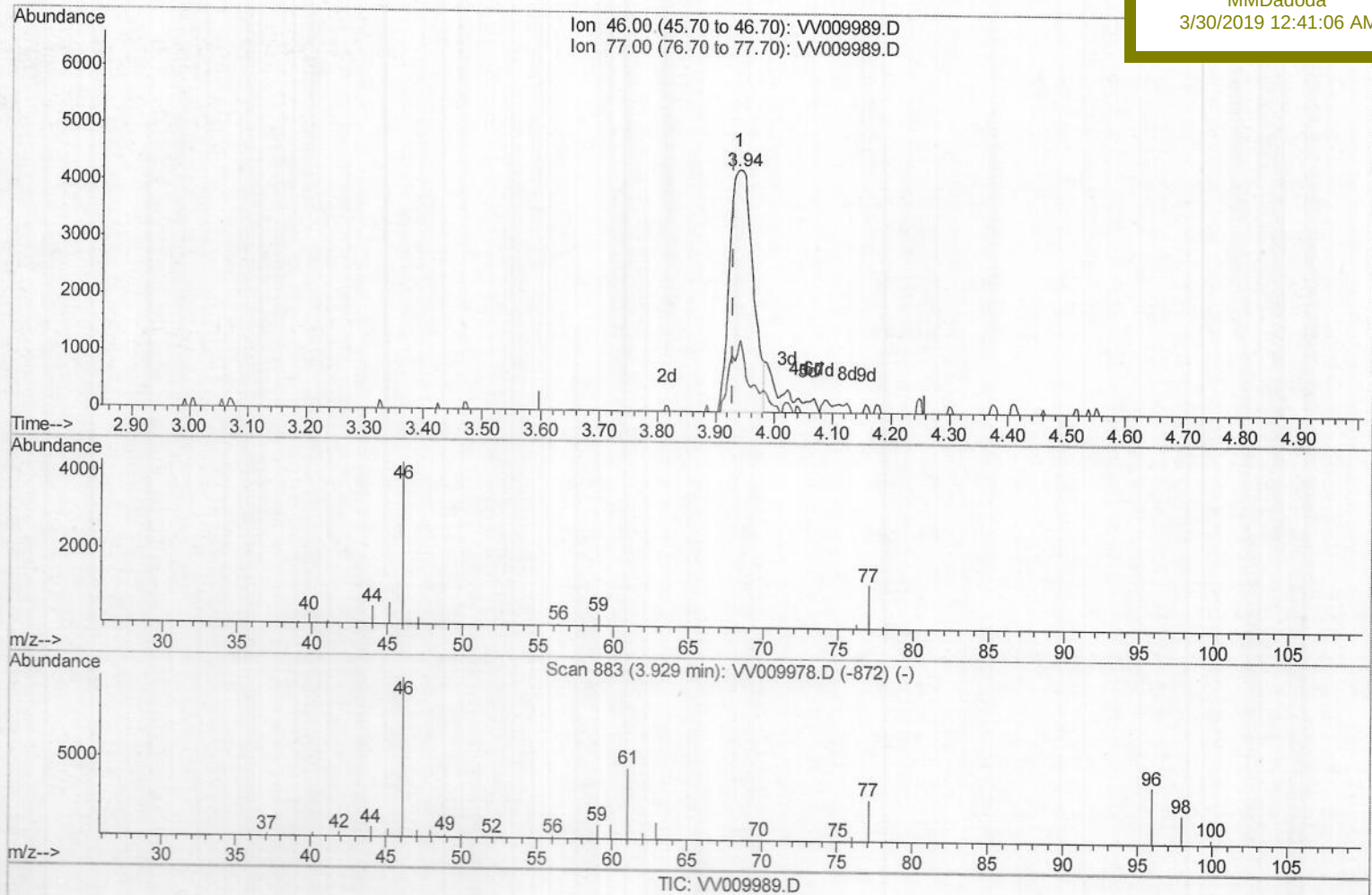
Data File : VV009989.D  
Acq On : 29 Mar 2019 02:41  
Operator : SY/MD  
Sample : K2120-04  
Misc : 5.14G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 04:24:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 29 04:20:29 2019  
Response via : Initial Calibration

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5C7

Manual Integrations  
APPROVED

MMDadoda  
3/30/2019 12:41:06 AM



(20) 2-Butanone-d5 (S)  
3.939min (+0.010) 19.53ug/L  
response 11780

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 23.10 | 6.83# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

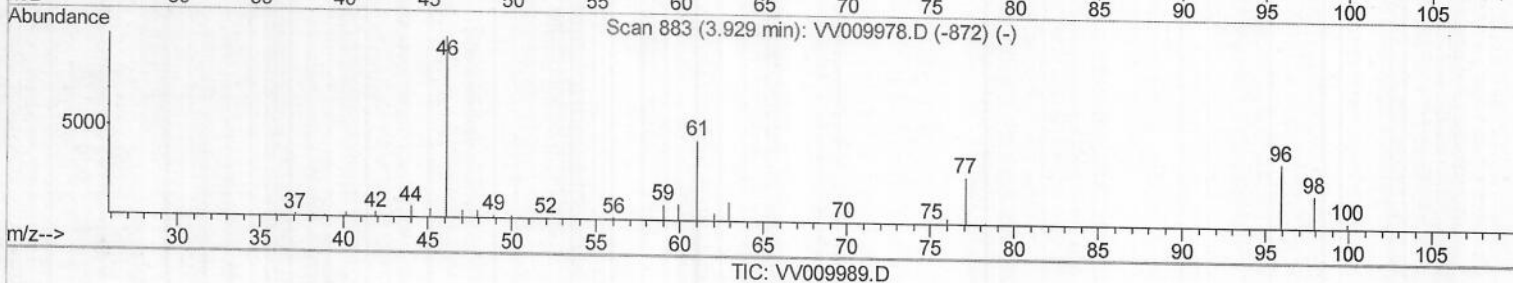
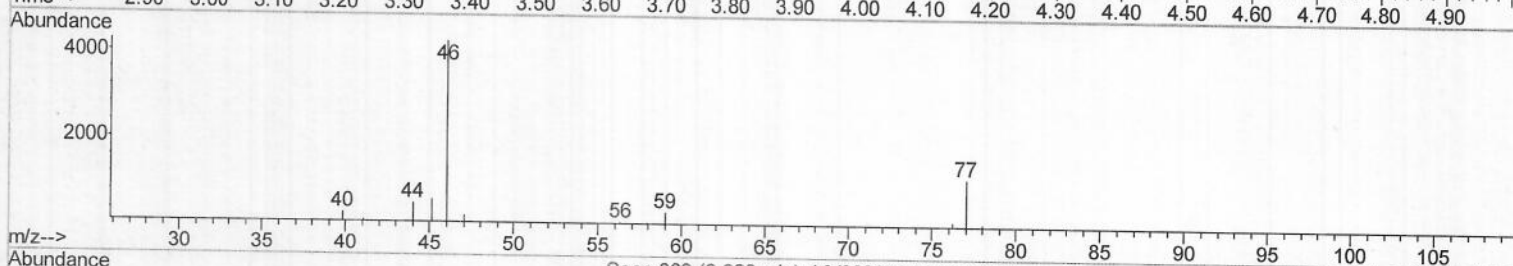
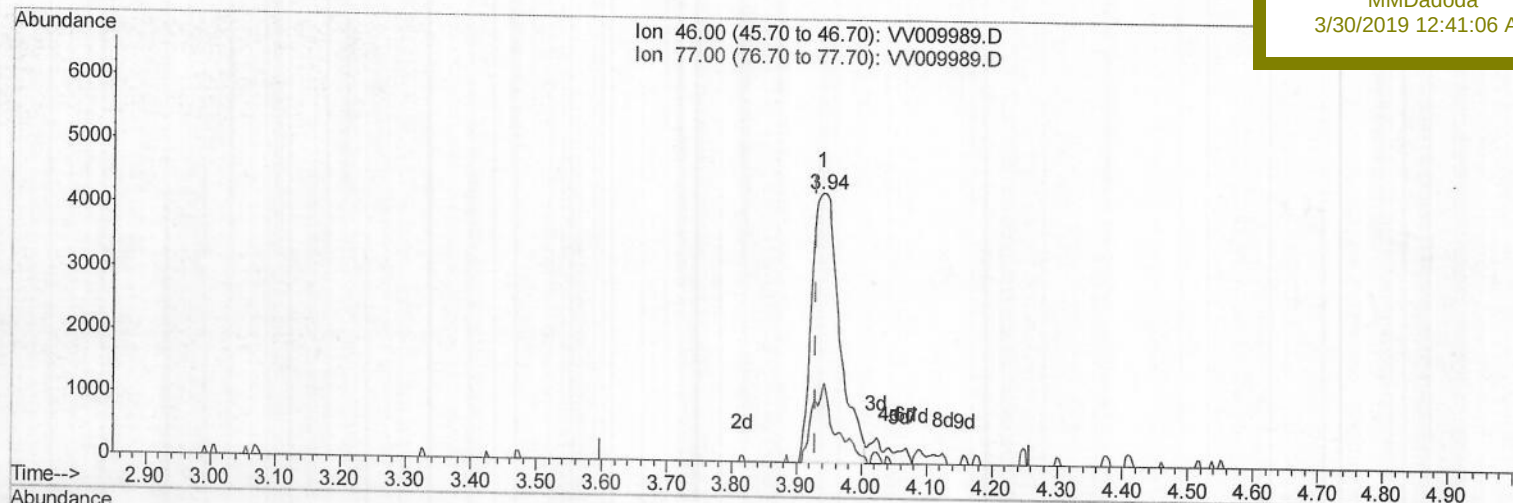
Data File : VV009989.D  
Acq On : 29 Mar 2019 02:41  
Operator : SY/MD  
Sample : K2120-04  
Misc : 5.14G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 04:24:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 29 04:20:29 2019  
Response via : Initial Calibration

Instrument :  
MSVOA\_V  
Client Sampled :  
BF5C7

Manual Integrations  
APPROVED

MMDadoda  
3/30/2019 12:41:06 AM



(20) 2-Butanone-d5 (S)

3.939min (+0.010) 20.99ug/L m

response 12659

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 46.00 | 100   | 100   |
| 77.00 | 23.10 | 6.35# |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

*M.D*  
*4/11/19*



Data File : VV009989.D  
Acq On : 29 Mar 2019 02:41  
Operator : SY/MD  
Sample : K2120-04  
Misc : 5.14G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5C7

Quant Time: Mar 29 04:57:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 29 04:20:29 2019  
Response via : Initial Calibration

Manual Integrations  
APPROVED

MMDadoda  
3/30/2019 12:41:06 AM

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 159490   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 115176   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 23727    | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |                |     |            |          |      |      |
|--------------------------------|----------------|-----|------------|----------|------|------|
| 4) Vinyl Chloride-d3           | 1.31           | 65  | 70372      | 21.74    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 150 |     | Recovery = | 86.96%   |      |      |
| 7) Chloroethane-d5             | 1.56           | 69  | 105336     | 30.13    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 150 |     | Recovery = | 120.52%  |      |      |
| 10) 1,1-Dichloroethene-d2      | 2.12           | 63  | 69477      | 7.85     | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 45 - 110 |     | Recovery = | 31.40%#  |      |      |
| 20) 2-Butanone-d5              | 3.94           | 46  | 12659m     | 20.99    | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 20 - 135 |     | Recovery = | 41.98%   |      |      |
| 24) Chloroform-d               | 4.39           | 84  | 104201     | 25.64    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 40 - 150 |     | Recovery = | 102.56%  |      |      |
| 26) 1,2-Dichloroethane-d4      | 5.08           | 65  | 65973      | 26.98    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 70 - 130 |     | Recovery = | 107.92%  |      |      |
| 29) Benzene-d6                 | 5.09           | 84  | 214325     | 35.43    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 20 - 135 |     | Recovery = | 141.72%# |      |      |
| 33) 1,2-Dichloropropane-d6     | 6.11           | 67  | 64405      | 36.40    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 70 - 120 |     | Recovery = | 145.60%# |      |      |
| 37) Toluene-d8                 | 7.36           | 98  | 158743     | 27.73    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 130 |     | Recovery = | 110.92%  |      |      |
| 38) trans-1,3-Dichloropropene- | 7.66           | 79  | 13287      | 18.35    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 135 |     | Recovery = | 73.40%   |      |      |
| 39) 2-Hexanone-d5              | 8.14           | 63  | 8480       | 25.67    | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 20 - 135 |     | Recovery = | 51.34%   |      |      |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26          | 84  | 35531      | 20.28    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 45 - 120 |     | Recovery = | 81.12%   |      |      |
| 61) 1,2-Dichlorobenzene-d4     | 11.67          | 152 | 21648      | 23.96    | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 75 - 120 |     | Recovery = | 95.84%   |      |      |

Target Compounds

|                        |      |    |      |            | Qvalue |
|------------------------|------|----|------|------------|--------|
| 13) Acetone            | 2.19 | 43 | 7734 | 8.470 ug/L | 99     |
| 16) Methylene chloride | 2.53 | 84 | 8923 | 3.397 ug/L | 96     |

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