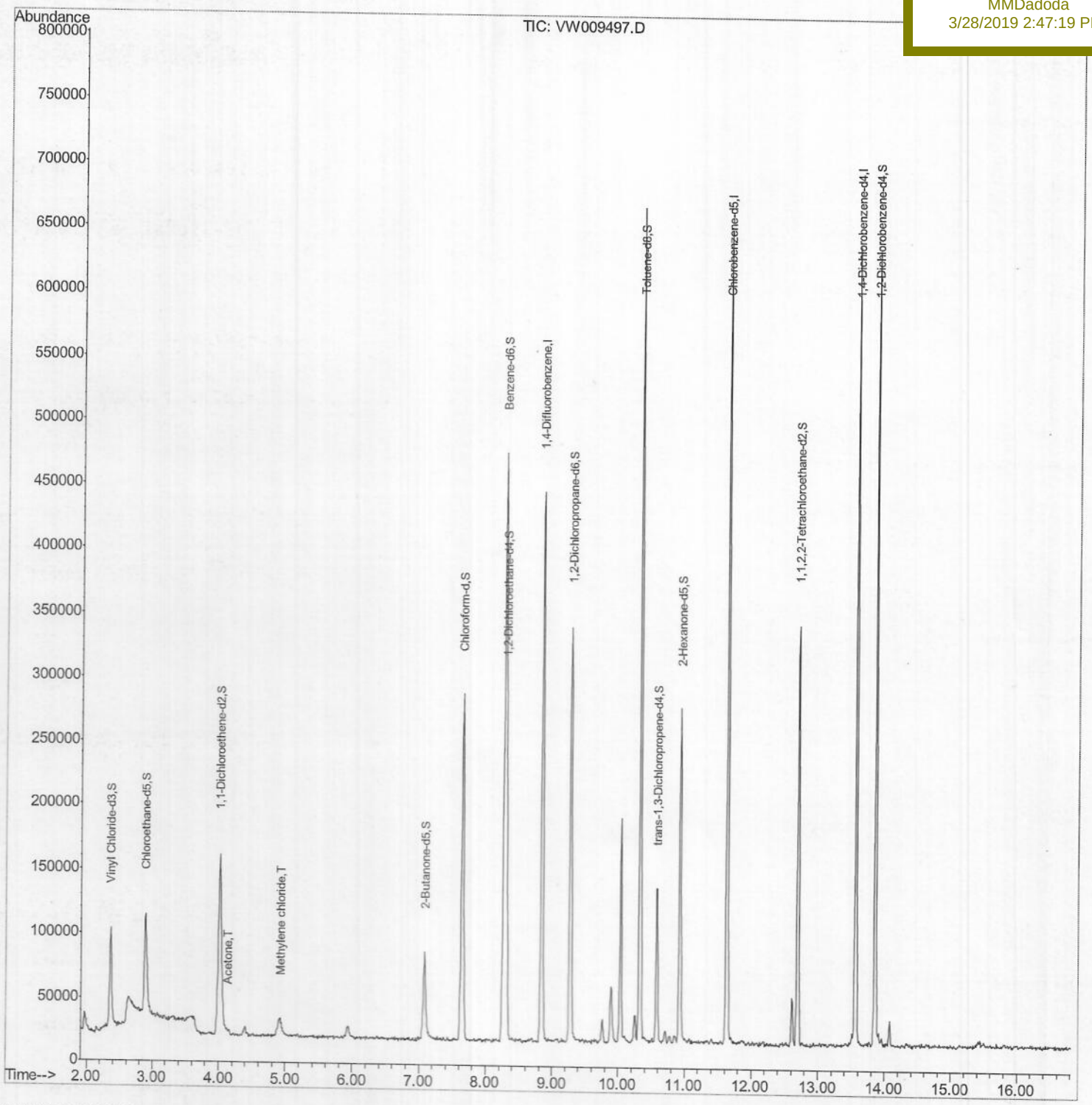
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 05:43:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM



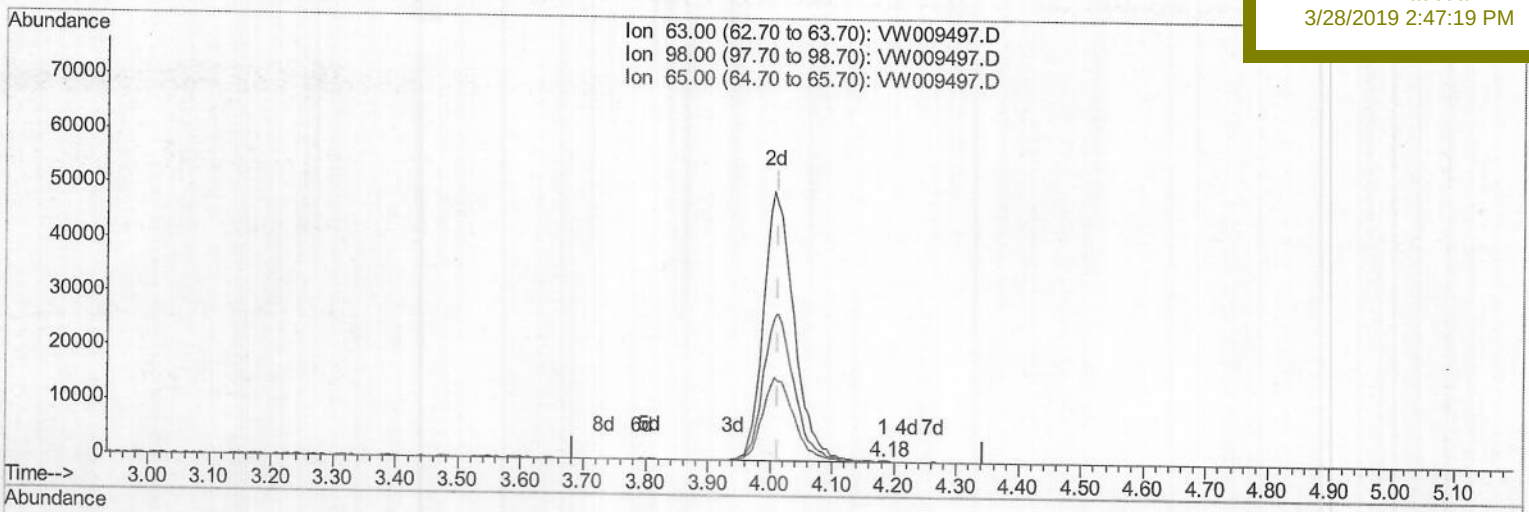
Quantitation Report (Qedit)

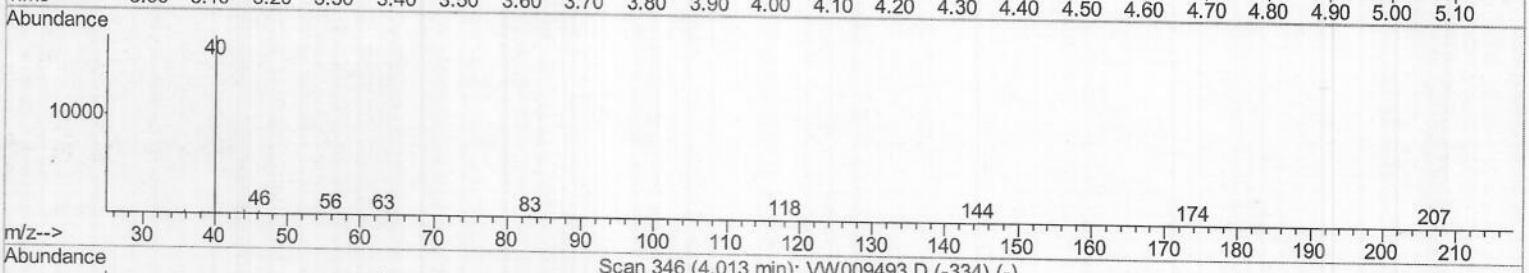
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

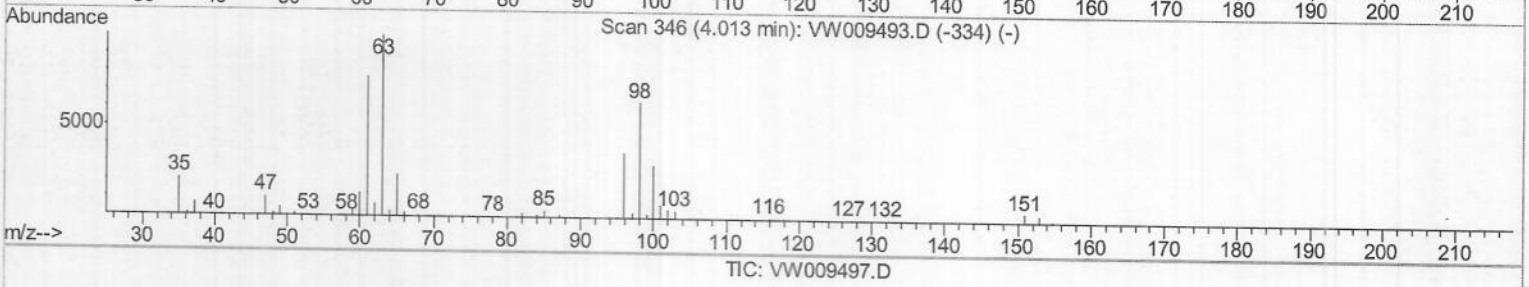
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

(10) 1,1-Dichloroethene-d2 (S)

4.184min (+0.171) 0.02ug/L

response 157

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 98.00 | 70.80 | 57.32 |
| 65.00 | 23.00 | 20.38 |
| 0.00 | 0.00 | 0.00 |

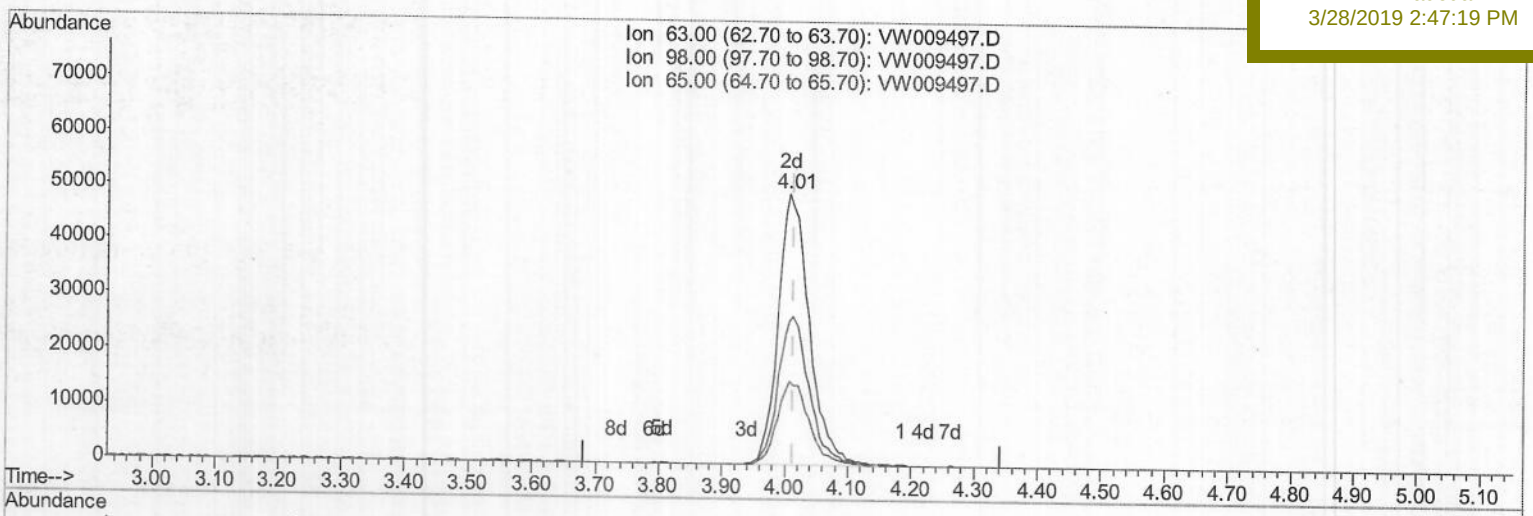
Quantitation Report (Qedit)

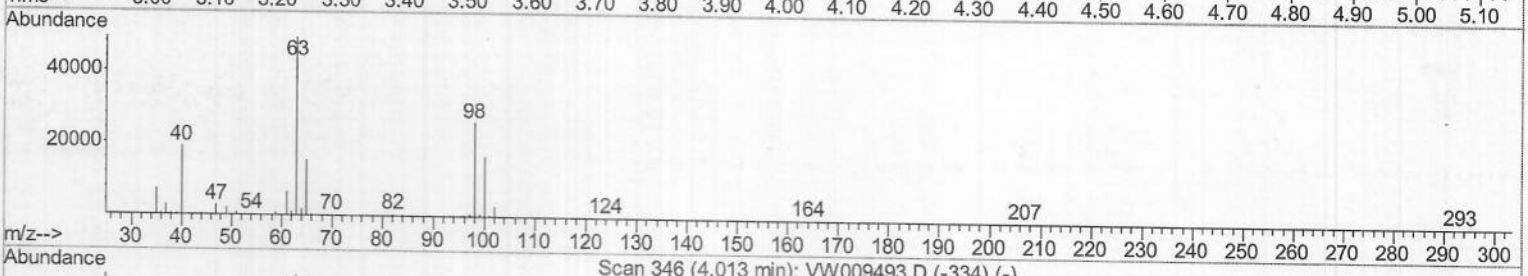
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

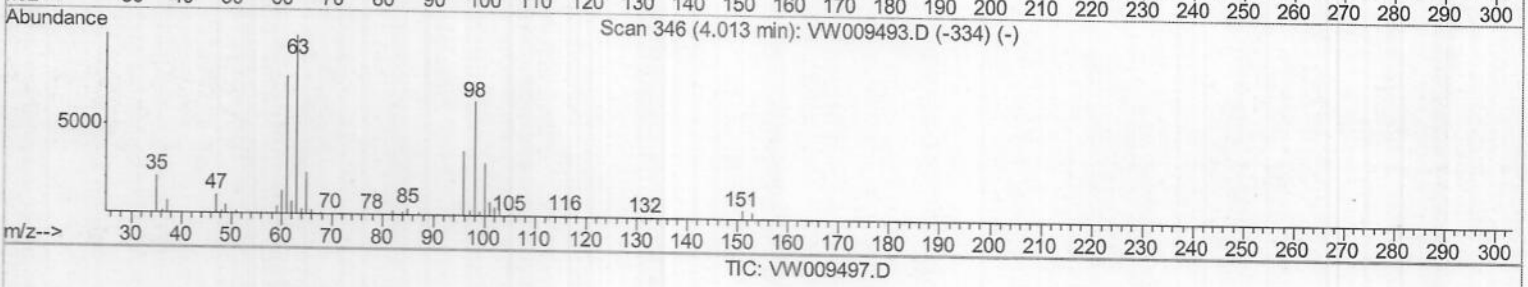
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

(10) 1,1-Dichloroethene-d2 (S)

4.007min (-0.006) 19.50ug/L m

04/02/1954

response 169837

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 98.00 | 70.80 | 0.05# |
| 65.00 | 23.00 | 0.02# |
| 0.00 | 0.00 | 0.00 |

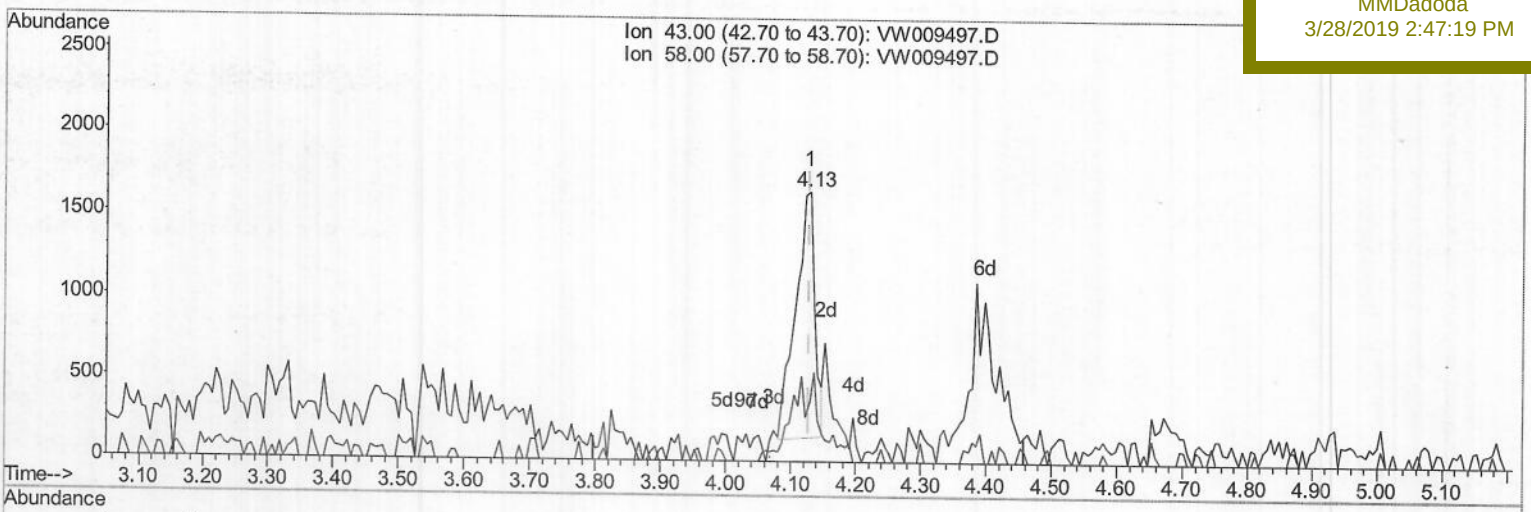
Quantitation Report (Qedit)

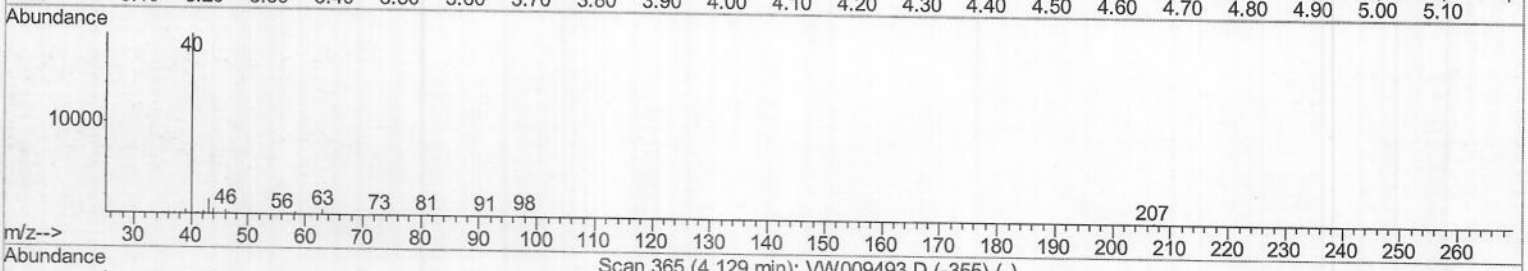
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

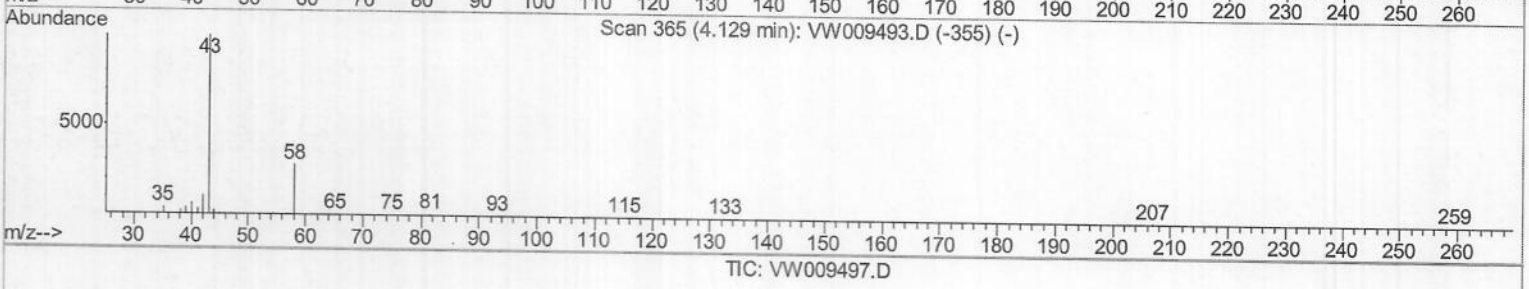
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

(13) Acetone (T)

4.129min (-0.000) 2.25ug/L

response 3078

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 28.10 | 18.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

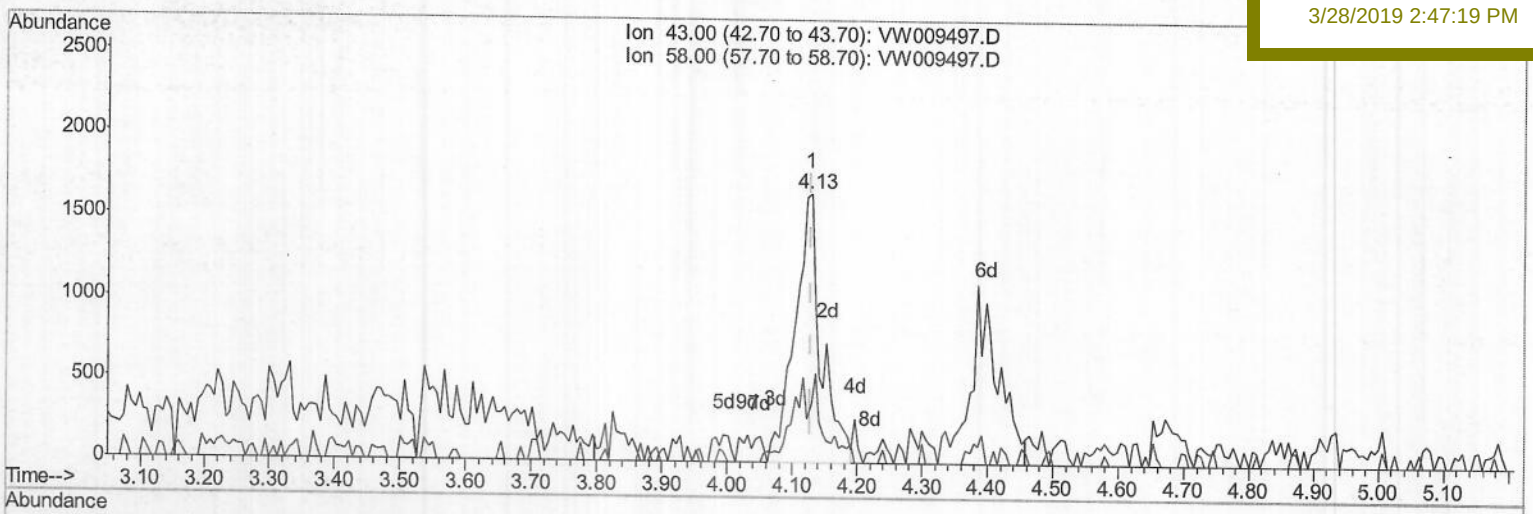
Quantitation Report (Qedit)

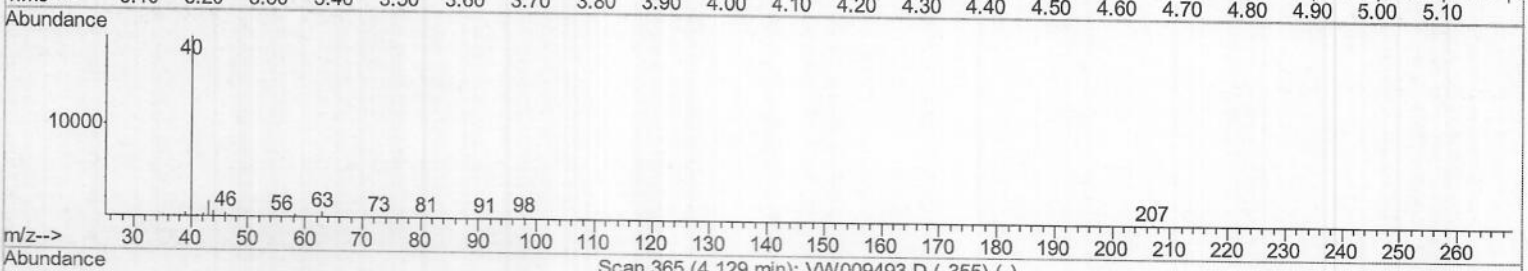
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

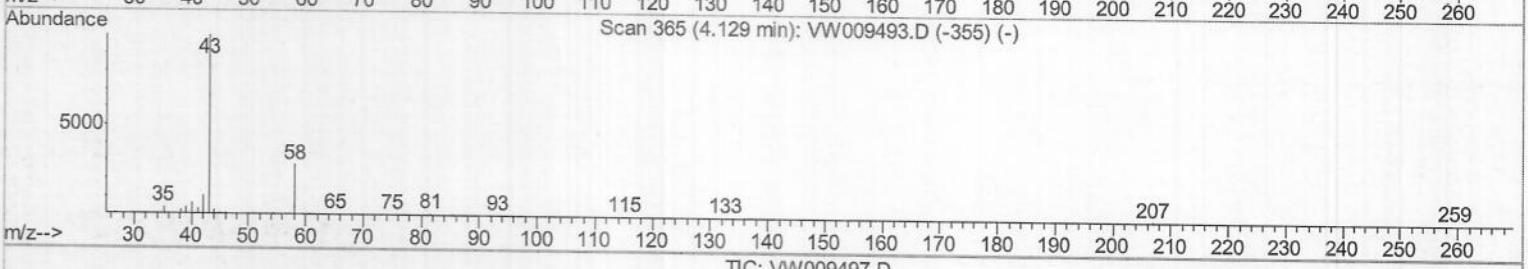
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

(13) Acetone (T)

4.129min (-0.000) 3.36ug/L m 04/02/19 SY

response 4590

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 58.00 | 28.10 | 12.61 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

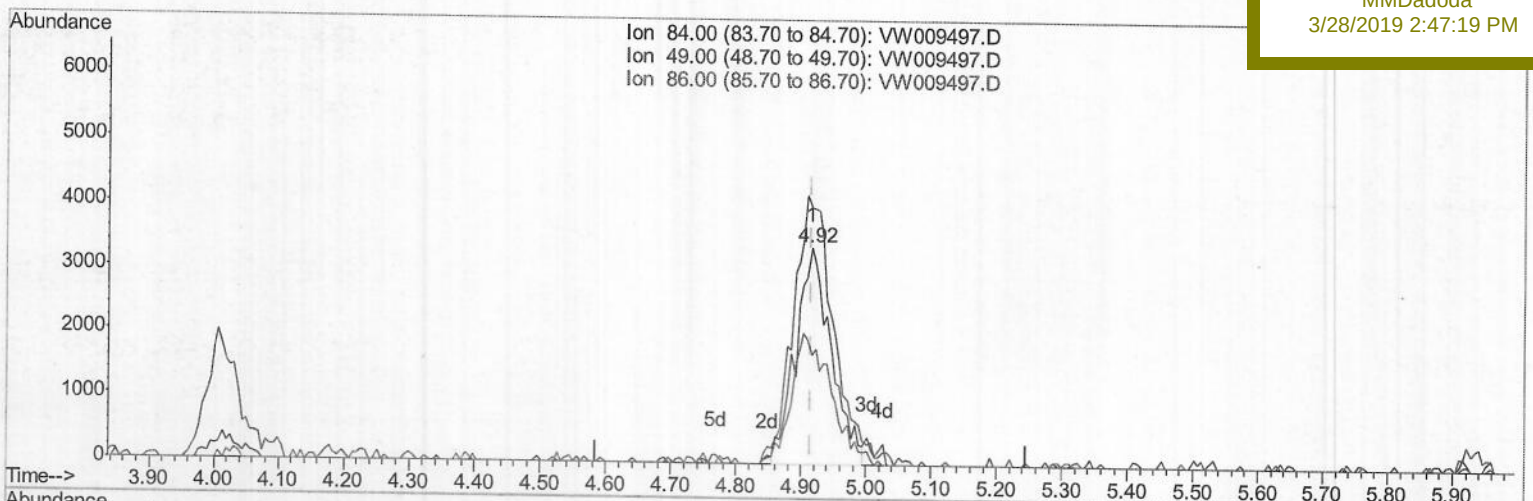
Quantitation Report (Qedit)

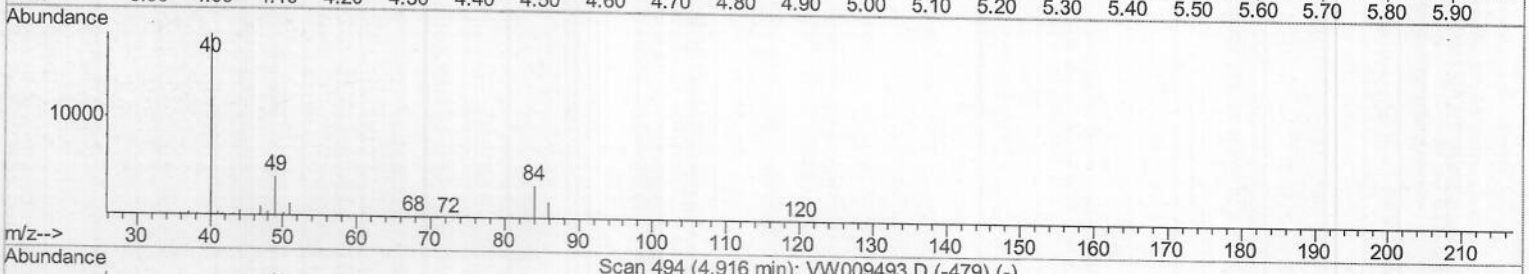
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

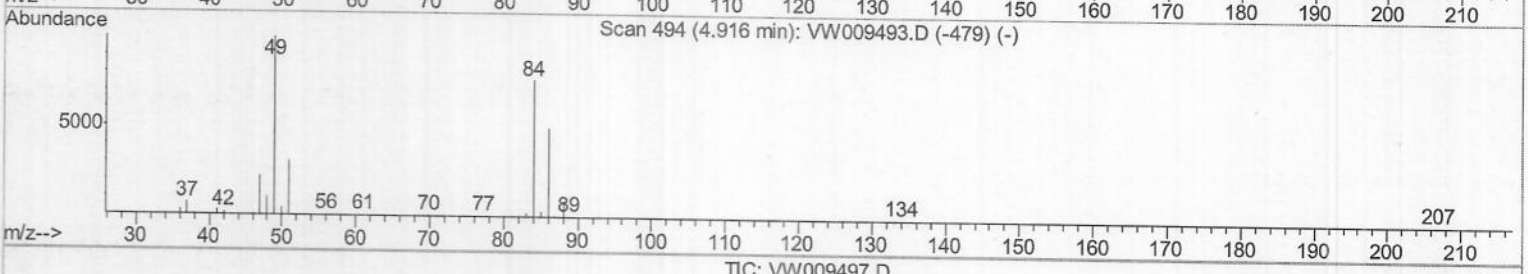
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

(16) Methylene chloride (T)

4.915min (-0.000) 2.59ug/L

response 12715

| Ion | Exp% | Act% |
|---|---|---|
| 84.00 | 100 | 100 |
| 49.00 | 137.10 | 118.47 |
| 86.00 | 63.50 | 50.25 |
| 0.00 | 0.00 | 0.00 |

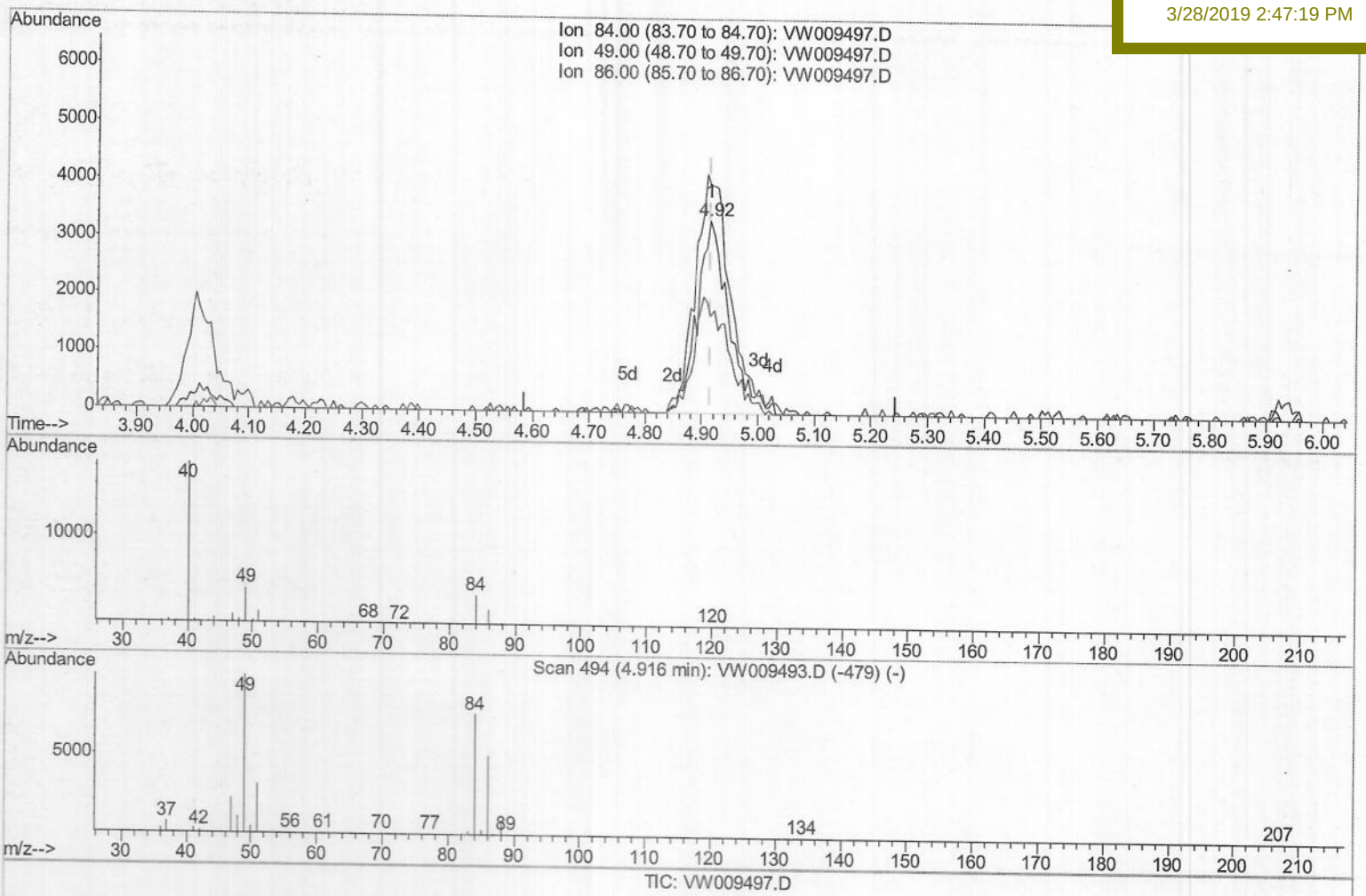
Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM










TIC: VW009497.D

(16) Methylene chloride (T)

4.915min (-0.000) 2.71ug/L m

response 13305

04/02/19 SY

| Ion | Exp% | Act% |
|---|---|---|
| 84.00 | 100 | 100 |
| 49.00 | 137.10 | 118.47 |
| 86.00 | 63.50 | 50.25 |
| 0.00 | 0.00 | 0.00 |

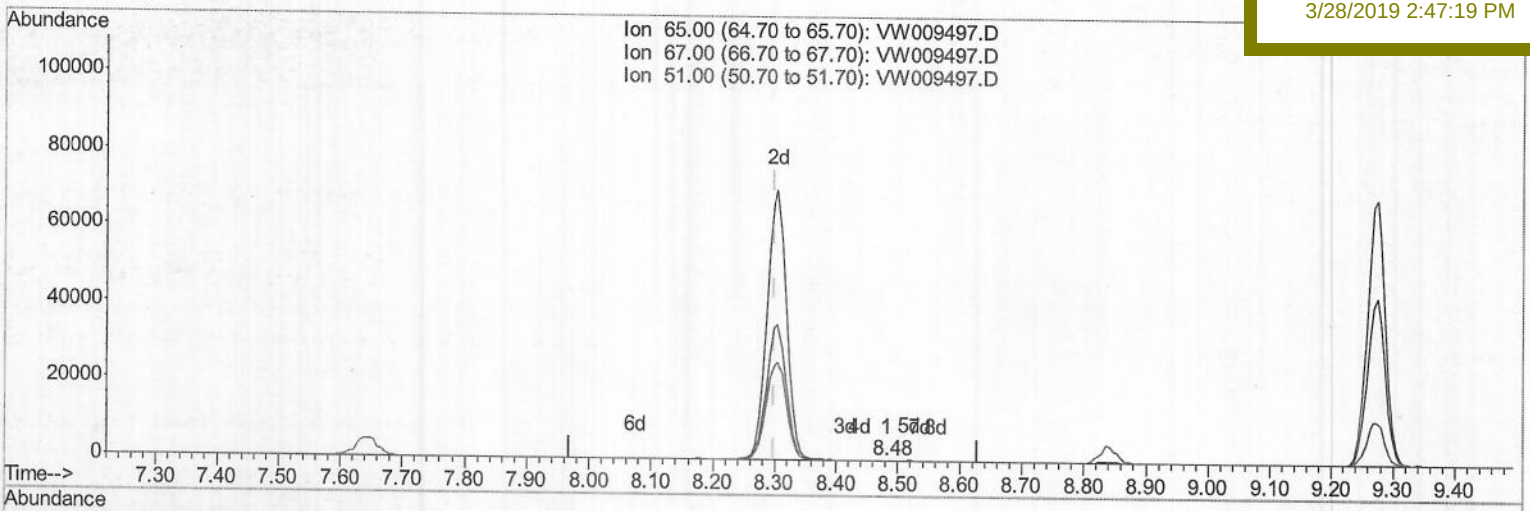
Quantitation Report (Qedit)

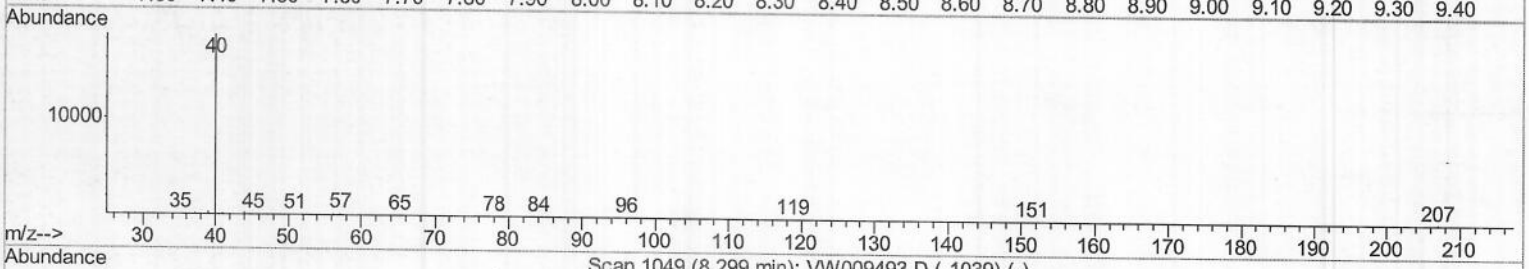
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

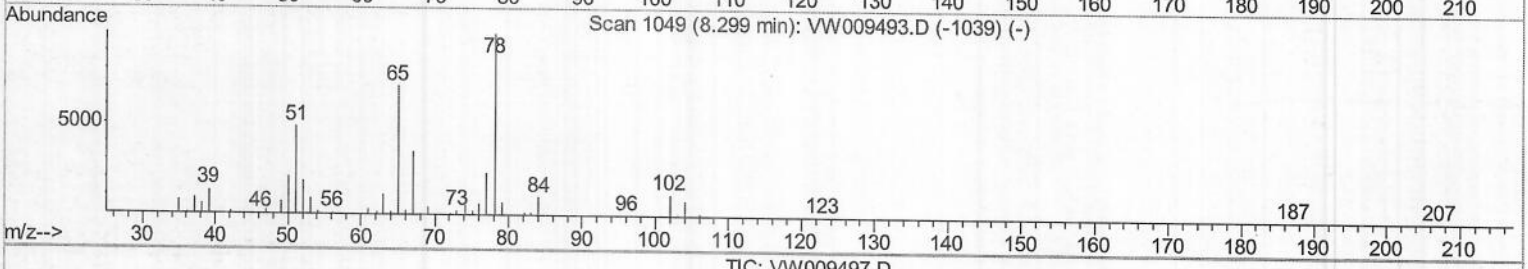
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

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

8.482min (+0.183) 0.01ug/L

response 49

| Ion | Exp% | Act% |
|---|---|---|
| 65.00 | 100 | 100 |
| 67.00 | 50.80 | 51.02 |
| 51.00 | 97.70 | 81.63 |
| 0.00 | 0.00 | 0.00 |

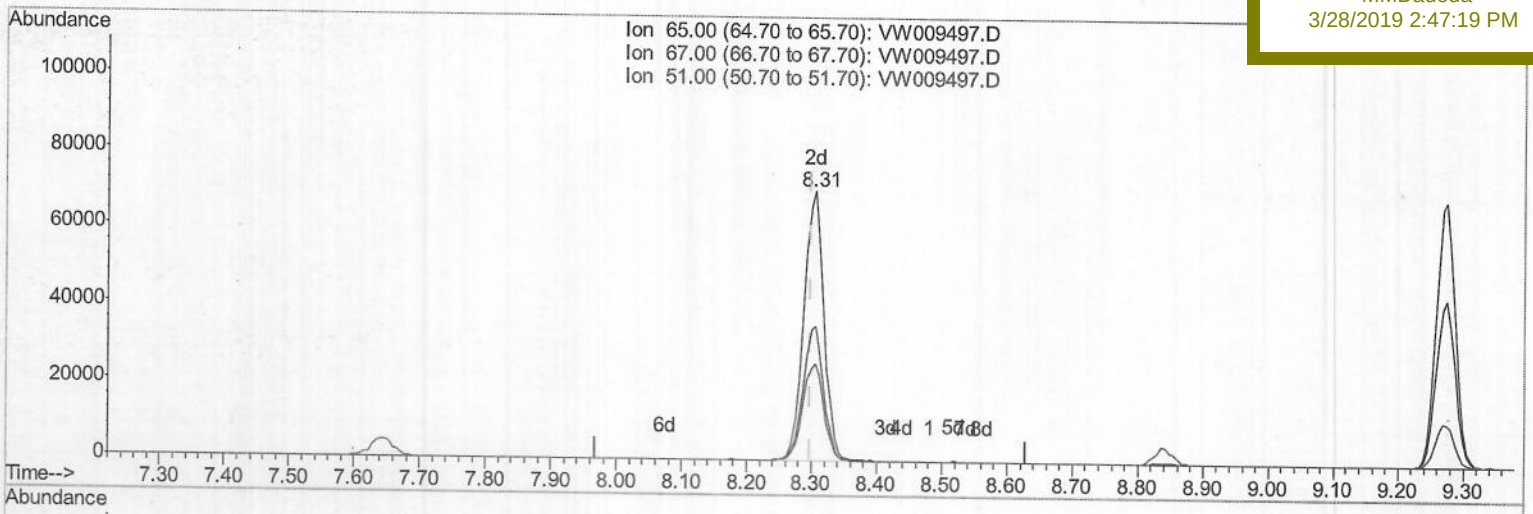
Quantitation Report (Qedit)

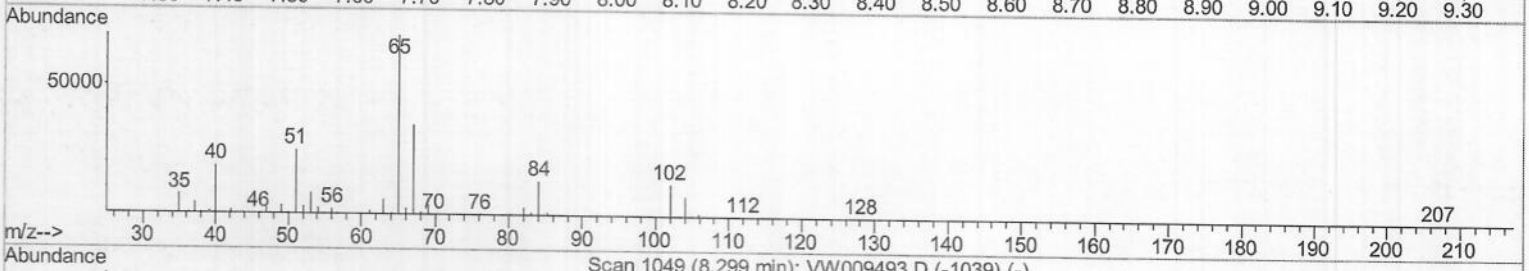
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

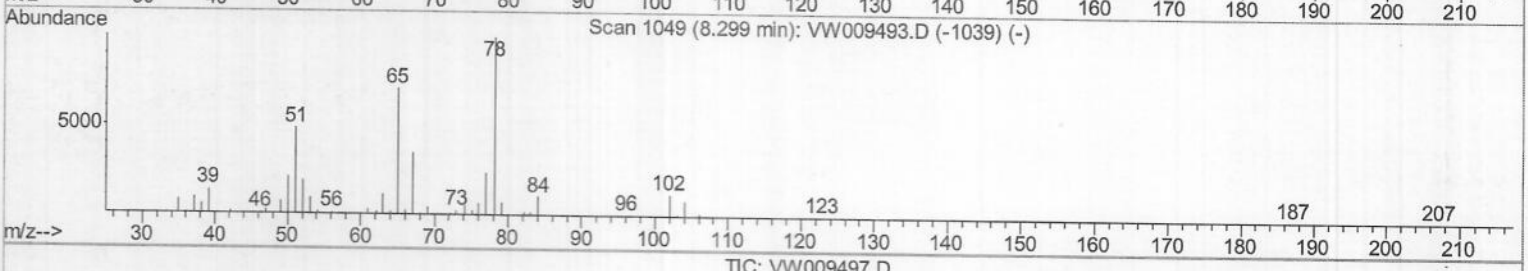
Quant Time: Mar 28 05:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM




TIC: VW009497.D

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

8.305min (+0.006) 27.08ug/L m

04/02/19 SY

response 150119

| Ion | Exp% | Act% |
|---|---|---|
| 65.00 | 100 | 100 |
| 67.00 | 50.80 | 0.02# |
| 51.00 | 97.70 | 0.03# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009497.D
Acq On : 27 Mar 2019 12:35
Operator : SY/VA
Sample : K2017-10
Misc : 5.05G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 05:43:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 04:55:04 2019
Response via : Initial Calibration

**Instrument :** MSVOA_W
**ClientSampleId :** VHBLK01

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:47:19 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 8.84 | 114 | 337240 | 25.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 11.63 | 117 | 321813 | 25.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152 | 144954 | 25.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 2.35 | 65 | 98044 | 24.33 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 97.32% | | | |
| 7) Chloroethane-d5 | 2.89 | 69 | 109422 | 23.20 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 92.80% | | | |
| 10) 1,1-Dichloroethene-d2 | 4.01 | 63 | 169837m | 19.50 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 110 | | Recovery = 78.00% | | | |
| 20) 2-Butanone-d5 | 7.07 | 46 | 111107 | 66.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 133.34% | | | |
| 24) Chloroform-d | 7.64 | 84 | 239643 | 26.04 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 40 - 150 | | Recovery = 104.16% | | | |
| 26) 1,2-Dichloroethane-d4 | 8.31 | 65 | 150119m | 27.08 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 130 | | Recovery = 108.32% | | | |
| 29) Benzene-d6 | 8.27 | 84 | 446452 | 25.16 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 20 - 135 | | Recovery = 100.64% | | | |
| 33) 1,2-Dichloropropane-d6 | 9.27 | 67 | 137763 | 25.84 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 120 | | Recovery = 103.36% | | | |
| 37) Toluene-d8 | 10.32 | 98 | 403949 | 24.62 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 130 | | Recovery = 98.48% | | | |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79 | 61096 | 22.82 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 135 | | Recovery = 91.28% | | | |
| 39) 2-Hexanone-d5 | 10.93 | 63 | 74750 | 57.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 115.80% | | | |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84 | 141944 | 27.04 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 120 | | Recovery = 108.16% | | | |
| 61) 1,2-Dichlorobenzene-d4 | 13.85 | 152 | 150582 | 27.09 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 75 - 120 | | Recovery = 108.36% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 13) Acetone | 4.13 | 43 | 4590m | 3.358 | ug/L | |
| 16) Methylene chloride | 4.92 | 84 | 13305m | 2.705 | ug/L | |

04/02/19 SY

04/02/19 SY

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