

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092118\

Data File : VU026939.D

Acq On : 20 Sep 2018 15:25

Operator : MD/SY

Sample : J4893-20

Misc : 5.0mL/MSVOA\_U/WATER

ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 21 15:34:08 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Sep 21 04:24:07 2018

Response via : Initial Calibration

Instrument :

MSVOA\_U

ClientSampleId :

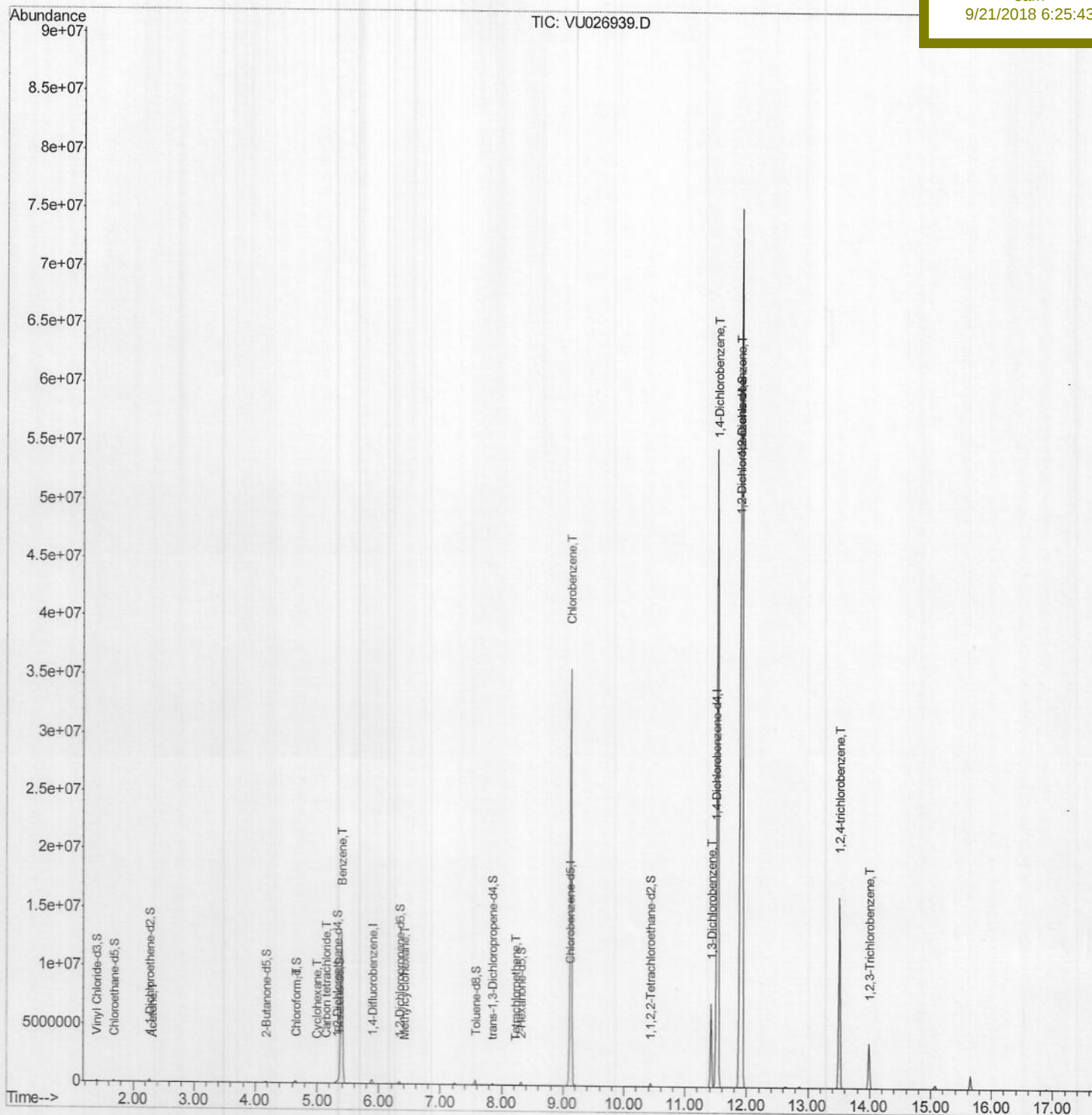
C08K8

Manual Integrations

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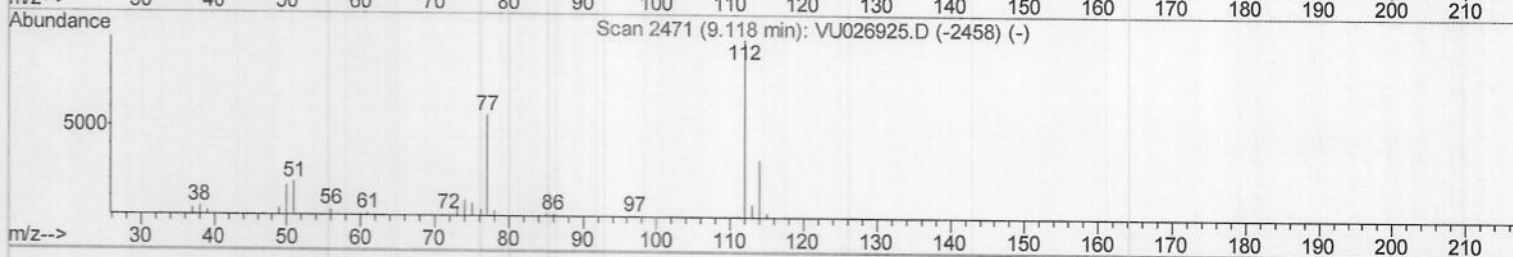
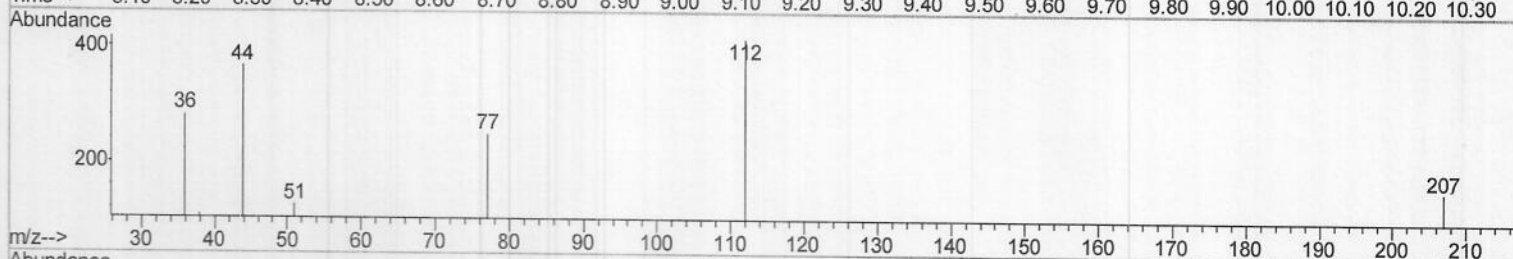
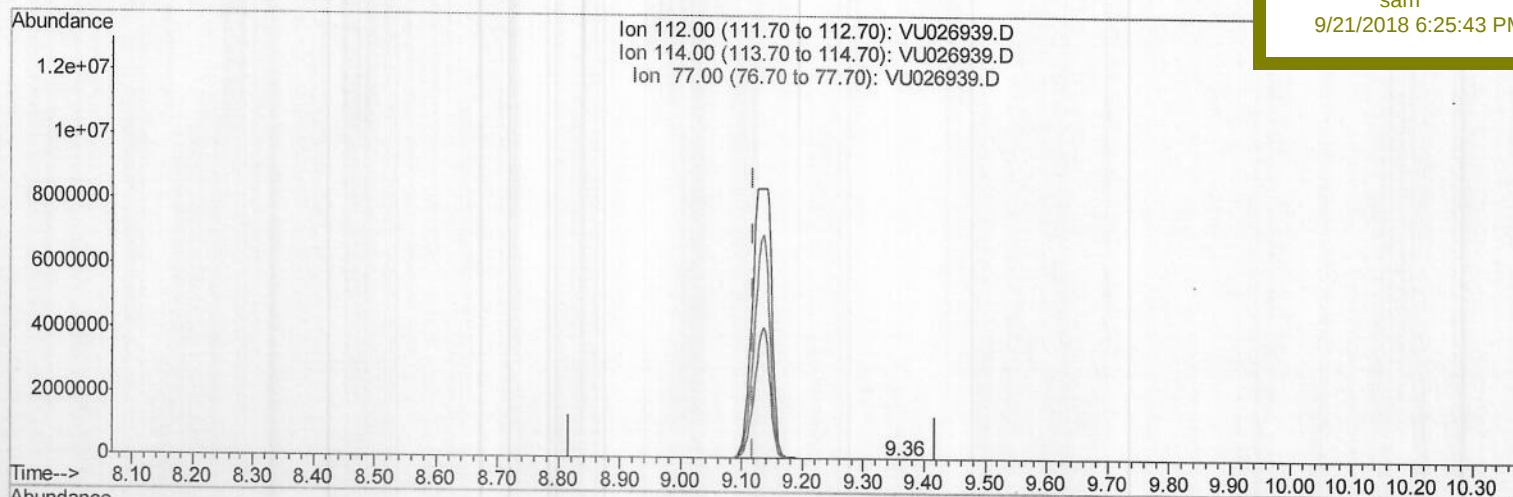
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Operator : MD/SY  
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Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 21 04:26:34 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 21 04:24:07 2018  
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MSVOA\_U  
ClientSampleId :  
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TIC: VU026939.D

(51) Chlorobenzene (T)

9.360min (+0.241) 0.02ug/L

response 95

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 112.00 | 100   | 100   |
| 114.00 | 31.90 | 0.00# |
| 77.00  | 56.40 | 59.86 |
| 0.00   | 0.00  | 0.00  |

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Quantitation Report (Qedit)

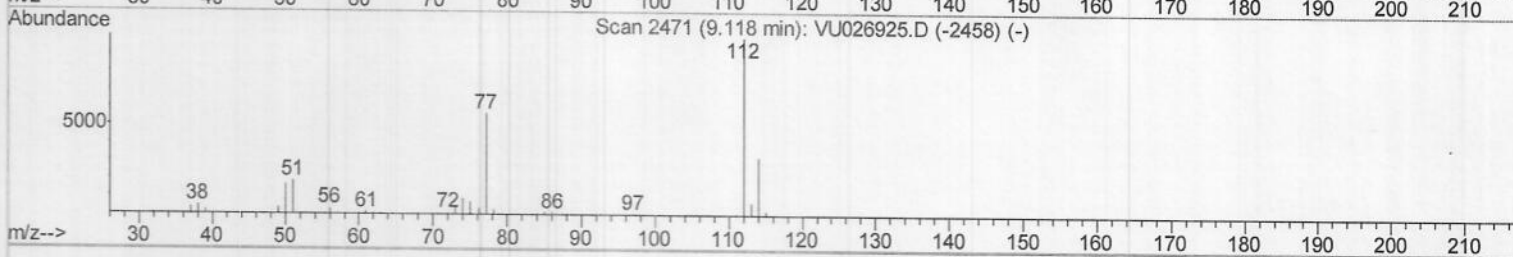
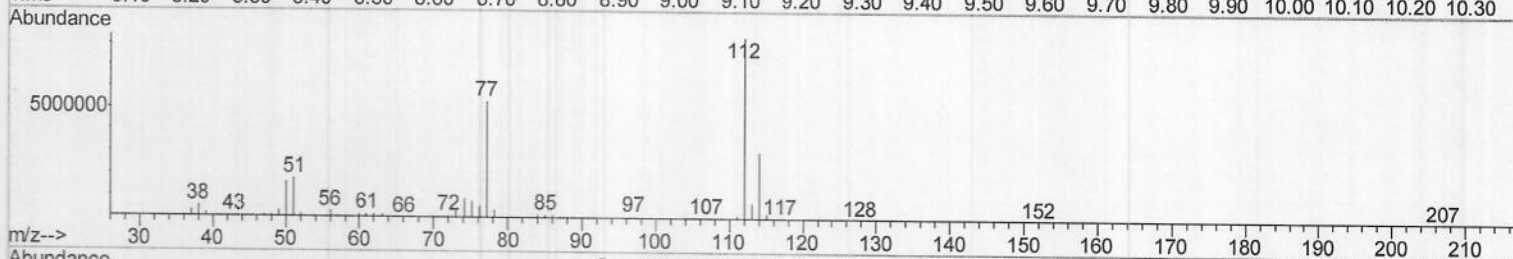
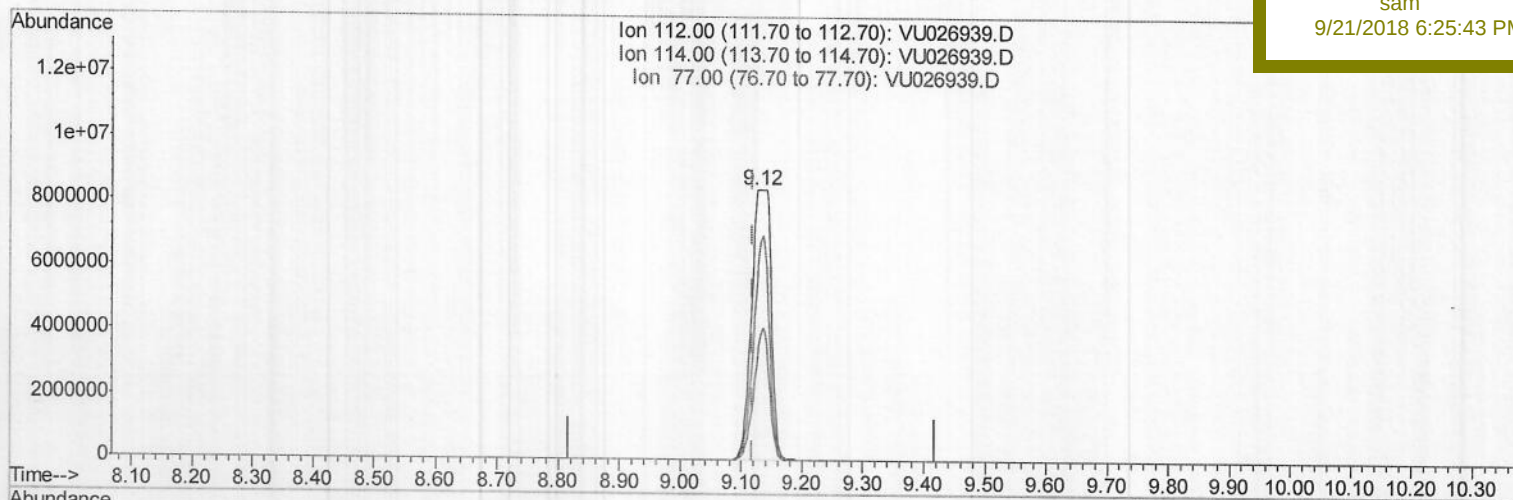
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Operator : MD/SY  
Sample : J4893-20  
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Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
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TIC: VU026939.D

(51) Chlorobenzene (T)

9.125min (+0.006) 3105.73ug/L m > MD9/28/18

response 18885833

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 112.00 | 100   | 100   |
| 114.00 | 31.90 | 36.13 |
| 77.00  | 56.40 | 63.90 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092118\  
Quantitation Report (Qedit)

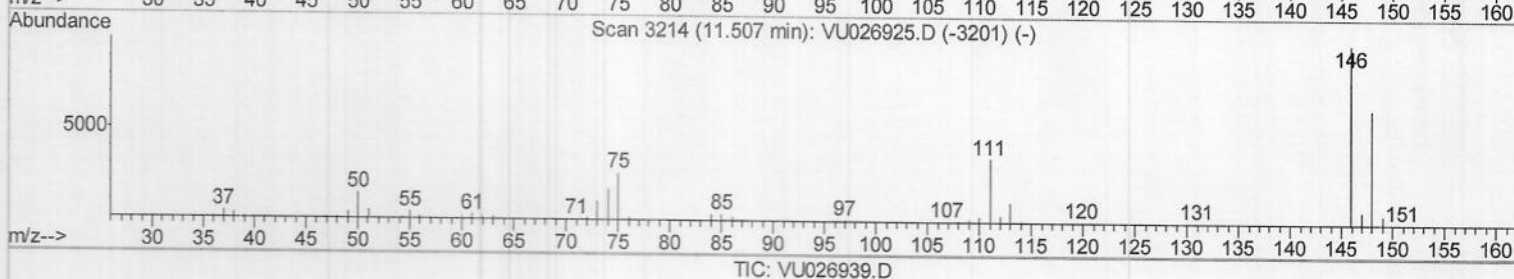
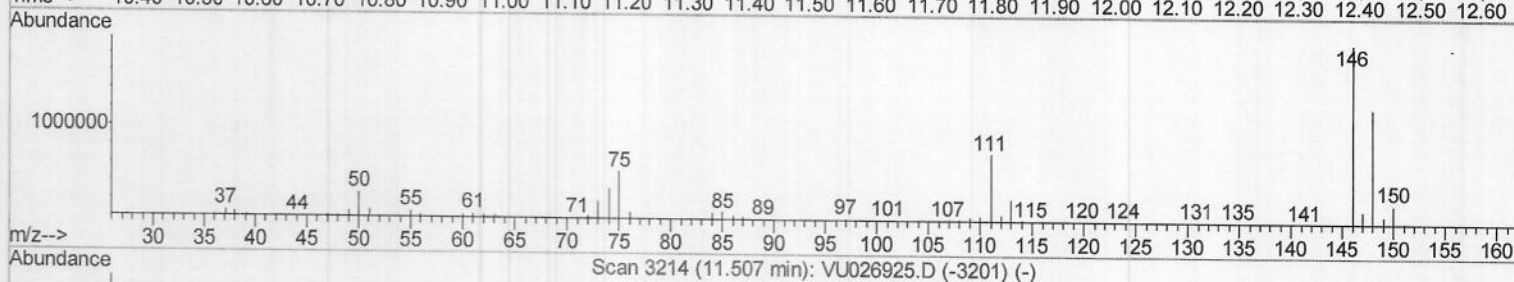
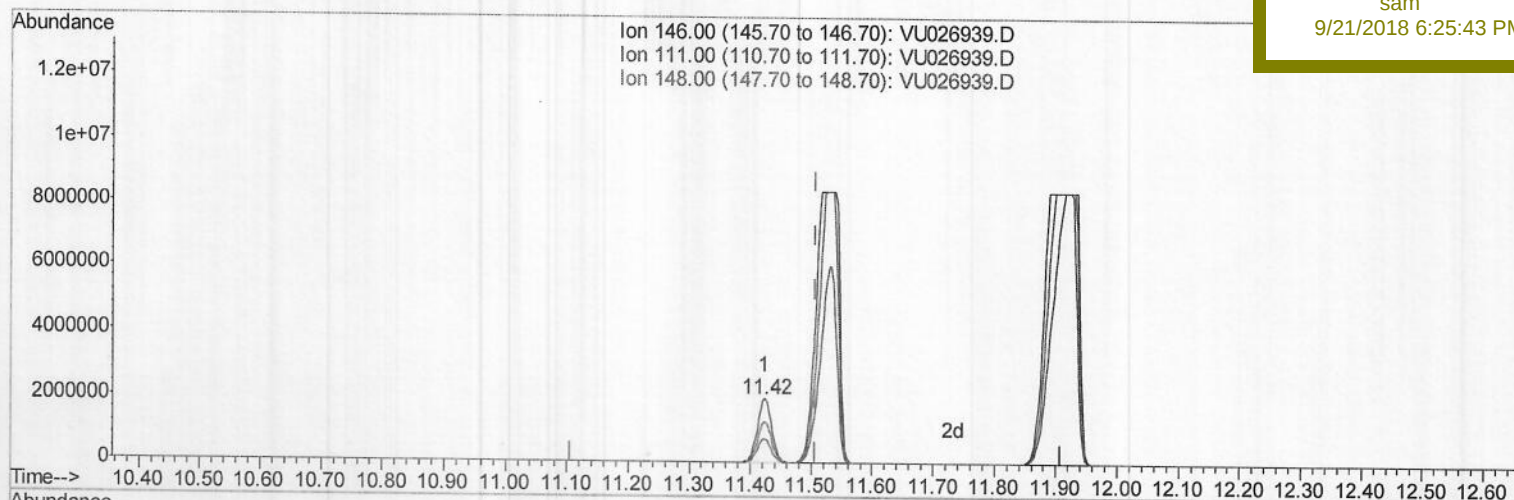
Data File : VU026939.D  
Acq On : 20 Sep 2018 15:25  
Operator : MD/SY  
Sample : J4893-20  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 16 Sample Multiplier: 1

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QLast Update : Fri Sep 21 04:24:07 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_U  
ClientSampled :  
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Manual Integrations  
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(63) 1,4-Dichlorobenzene (T)  
11.424min (-0.084) 521.82ug/L  
response 3168568

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 37.10 | 37.62 |
| 148.00 | 65.50 | 63.94 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092118\  
Quantitation Report (Qedit)

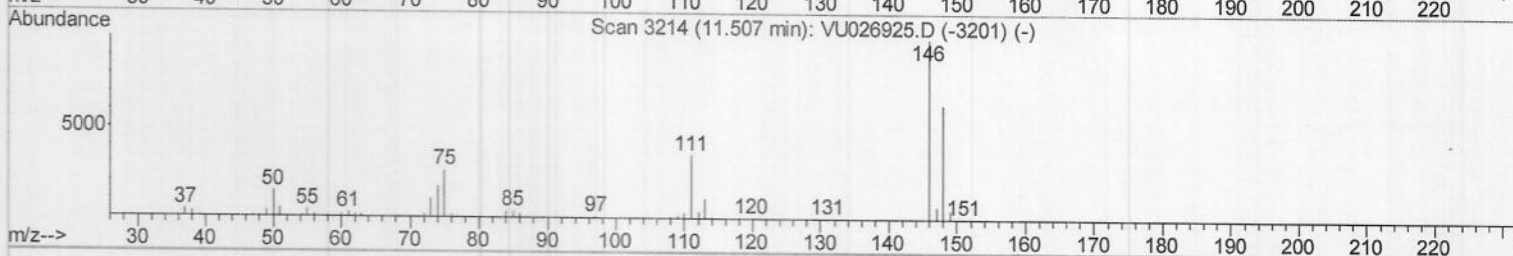
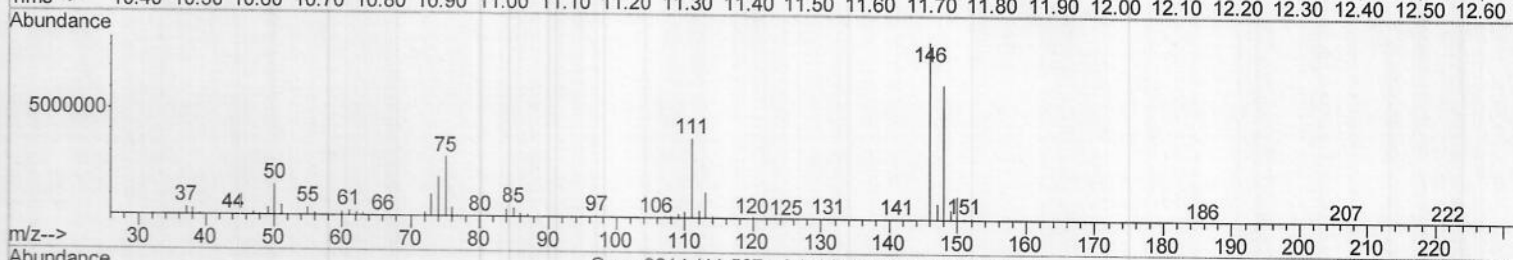
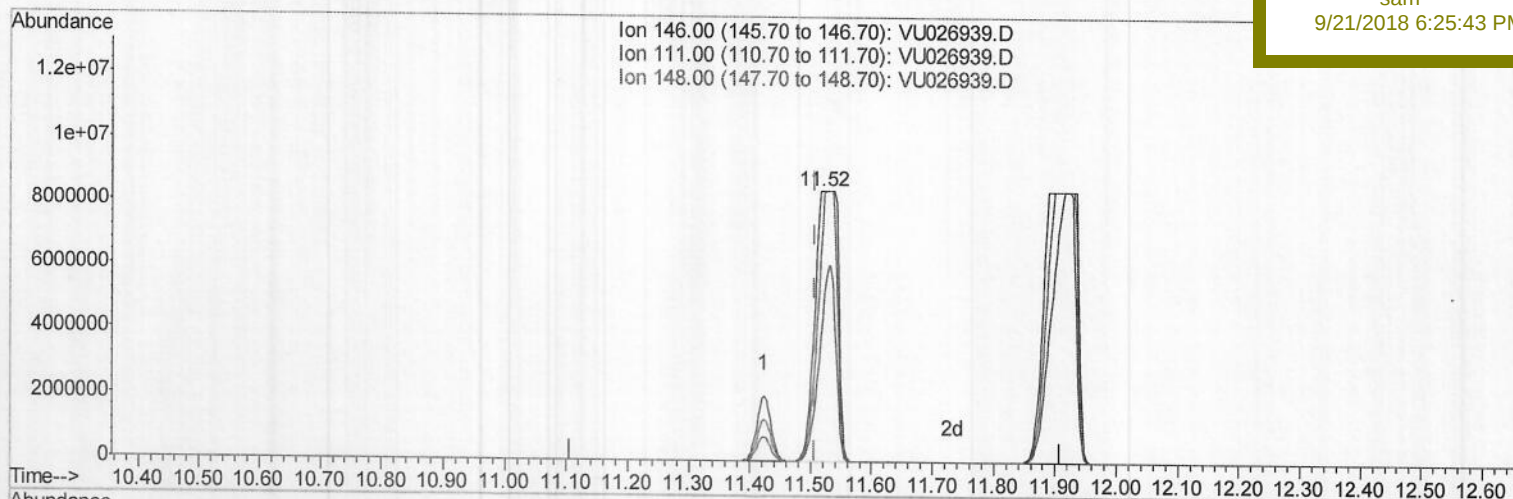
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Acq On : 20 Sep 2018 15:25  
Operator : MD/SY  
Sample : J4893-20  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 16 Sample Multiplier: 1

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QLast Update : Fri Sep 21 04:24:07 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08K8

Manual Integrations  
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TIC: VU026939.D

(63) 1,4-Dichlorobenzene (T)

11.517min (+0.010) 3608.00ug/L m > MD9/28/18

response 21908447

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 37.10 | 44.56 |
| 148.00 | 65.50 | 75.18 |
| 0.00   | 0.00  | 0.00  |

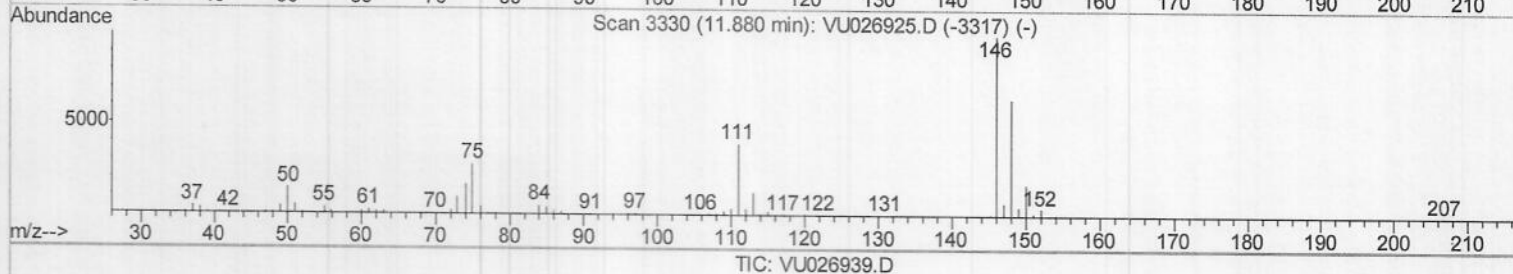
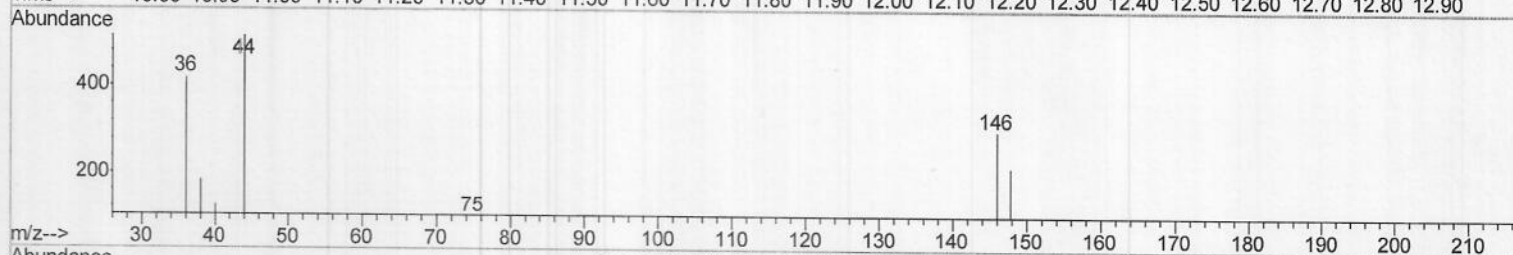
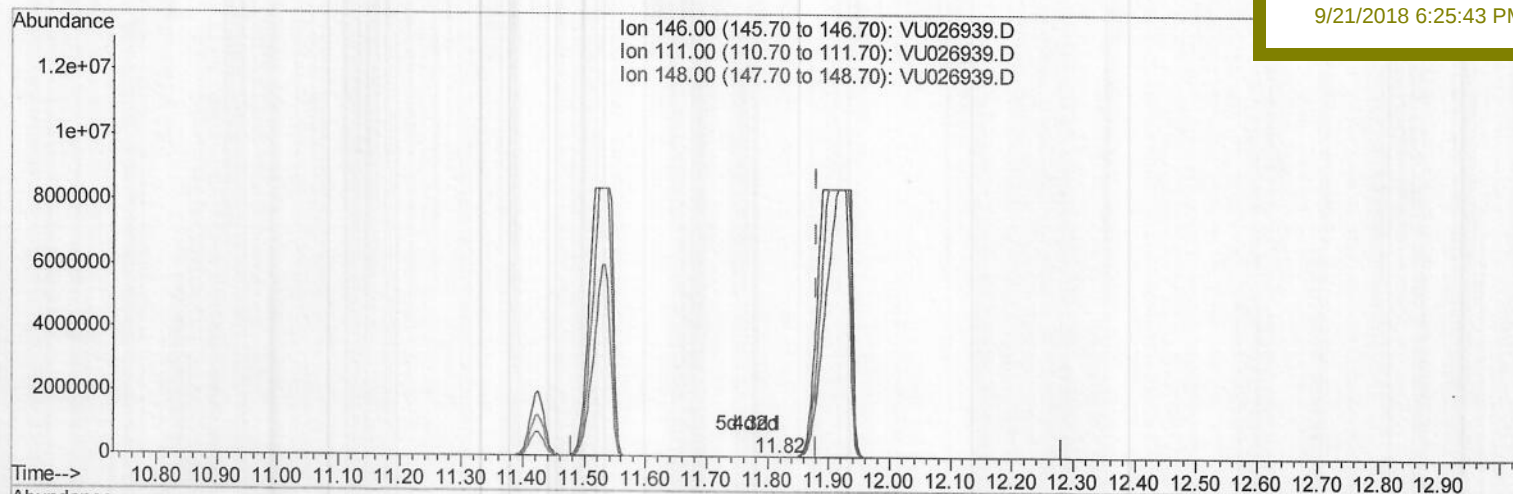
Data File : VU026939.D  
Acq On : 20 Sep 2018 15:25  
Operator : MD/SY  
Sample : J4893-20  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 21 04:26:34 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 21 04:24:07 2018  
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Instrument :  
MSVOA\_U  
ClientSampleId :  
C08K8

Manual Integrations  
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(65) 1,2-Dichlorobenzene (T)

11.816min (-0.064) 0.00ug/L

response 29

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 39.20 | 0.00# |
| 148.00 | 64.30 | 72.09 |
| 0.00   | 0.00  | 0.00  |

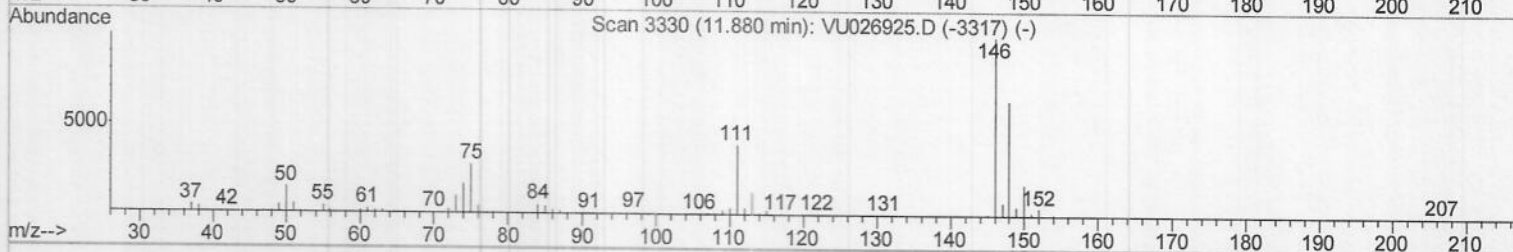
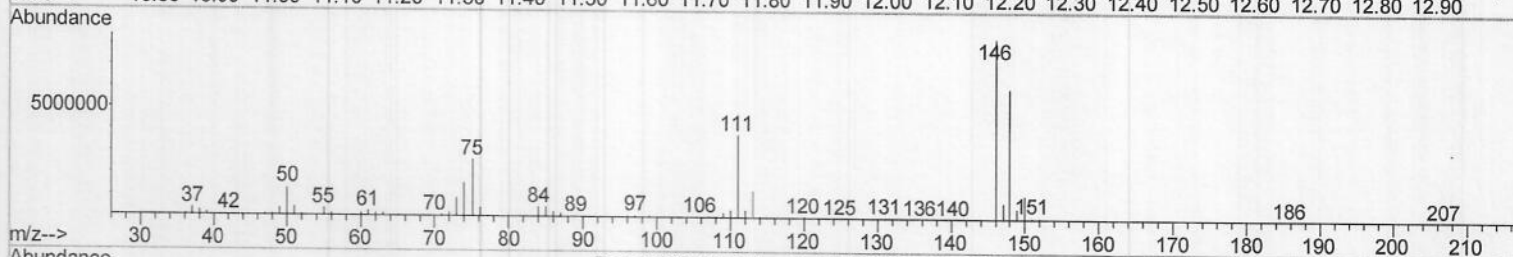
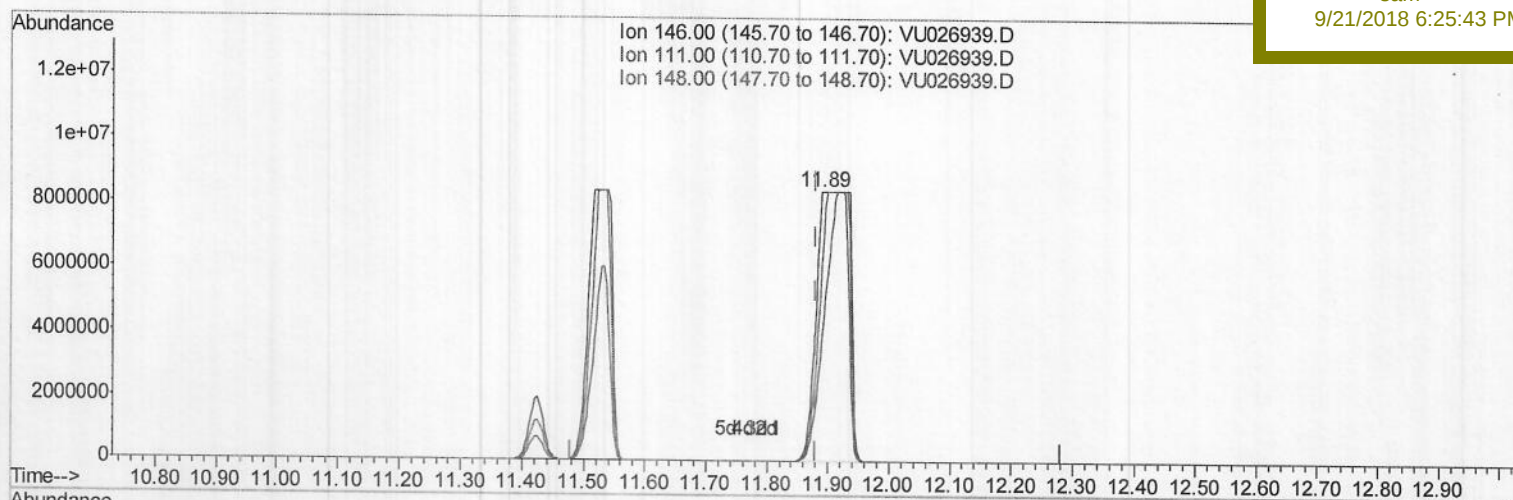
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Sample : J4893-20  
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Instrument :  
MSVOA\_U  
ClientSampleId :  
C08K8

Manual Integrations  
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TIC: VU026939.D

(65) 1,2-Dichlorobenzene (T)

11.890min (+0.010) 5207.19ug/L m ) MD9/28/18

response 31795087

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 39.20 | 45.83 |
| 148.00 | 64.30 | 71.88 |
| 0.00   | 0.00  | 0.00  |

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Sample : J4893-20

Misc : 5.0mL/MSVOA\_U/WATER

ALS Vial : 16 Sample Multiplier: 1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Sep 21 04:24:07 2018

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Instrument :  
MSVOA\_U  
ClientSampleId :  
C08K8

Manual Integrations  
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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 291602   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.10  | 117  | 285638   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.50 | 152  | 180894   | 50.00 | ug/L  | 0.01     |

## System Monitoring Compounds

|                                |                |     |            |         |      |      |
|--------------------------------|----------------|-----|------------|---------|------|------|
| 4) Vinyl Chloride-d3           | 1.40           | 65  | 76297      | 35.37   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 135 |     | Recovery = | 70.74%  |      |      |
| 7) Chloroethane-d5             | 1.68           | 69  | 63816      | 34.56   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 130 |     | Recovery = | 69.12%# |      |      |
| 11) 1,1-Dichloroethene-d2      | 2.27           | 63  | 105920     | 25.95   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 51.90%# |      |      |
| 21) 2-Butanone-d5              | 4.18           | 46  | 108476     | 75.78   | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 40 - 130 |     | Recovery = | 75.78%  |      |      |
| 24) Chloroform-d               | 4.65           | 84  | 133368     | 33.33   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 66.66%# |      |      |
| 26) 1,2-Dichloroethane-d4      | 5.31           | 65  | 84804      | 33.66   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 67.32%# |      |      |
| 32) Benzene-d6                 | 5.35           | 84  | 276503     | 34.54   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 69.08%# |      |      |
| 36) 1,2-Dichloropropane-d6     | 6.33           | 67  | 86300      | 33.46   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 120 |     | Recovery = | 66.92%# |      |      |
| 41) Toluene-d8                 | 7.57           | 98  | 244602     | 33.82   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 67.64%# |      |      |
| 43) trans-1,3-Dichloropropene- | 7.85           | 79  | 39178      | 34.02   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 68.04%  |      |      |
| 47) 2-Hexanone-d5              | 8.31           | 63  | 78859      | 77.79   | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 45 - 130 |     | Recovery = | 77.79%  |      |      |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43          | 84  | 119020     | 33.09   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 65 - 120 |     | Recovery = | 66.18%  |      |      |
| 64) 1,2-Dichlorobenzene-d4     | 11.89          | 152 | 134285     | 35.68   | ug/L | 0.03 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 71.36%# |      |      |

## Target Compounds

|                            |       |     |           |               | Qvalue |
|----------------------------|-------|-----|-----------|---------------|--------|
| 13) Acetone                | 2.32  | 43  | 5388      | 3.829 ug/L    | 98     |
| 25) Chloroform             | 4.67  | 83  | 28345     | 6.967 ug/L    | 99     |
| 29) Cyclohexane            | 5.00  | 56  | 3679      | 1.109 ug/L    | # 91   |
| 31) Carbon tetrachloride   | 5.14  | 117 | 21385     | 7.023 ug/L    | 97     |
| 33) Benzene                | 5.40  | 78  | 13134944  | 1483.191 ug/L | 100    |
| 35) Methylcyclohexane      | 6.42  | 83  | 2853      | 0.824 ug/L    | # 76   |
| 46) Tetrachloroethene      | 8.23  | 164 | 1457      | 0.773 ug/L    | 95     |
| 51) Chlorobenzene          | 9.12  | 112 | 18885833m | 3105.735 ug/L |        |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 3168568   | 574.590 ug/L  | 99     |
| 63) 1,4-Dichlorobenzene    | 11.52 | 146 | 21908447m | 3608.002 ug/L |        |
| 65) 1,2-Dichlorobenzene    | 11.89 | 146 | 31795087m | 5207.187 ug/L |        |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 5383872   | 1464.084 ug/L | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 1237682   | 305.637 ug/L  | 99     |

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

MD 9/28/18