

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\  
 Data File : VU041344.D  
 Acq On : 19 Nov 2020 15:31  
 Operator : SY/MD  
 Sample : L4790-06 40X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4398

Manual Integrations  
 APPROVED

MMDadoda  
 11/20/2020 2:20:54 PM

Quant Time: Nov 20 06:44:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 20 05:56:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.31  | 114  | 64926    | 5.00 | ug/L  | 0.05     |
| 28) Chlorobenzene-d5       | 9.43  | 117  | 65227    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 28874    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.64   | 65    | 13854    | 2.90     | ug/L | 0.03    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 58.00%  |
| 7) Chloroethane-d5             | 1.95   | 69    | 12842    | 3.14     | ug/L | 0.03    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 62.80%# |
| 11) 1,1-Dichloroethene-d2      | 2.61   | 63    | 22799    | 2.31     | ug/L | 0.03    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 46.20%# |
| 20) 2-Butanone-d5              | 4.79   | 46    | 60289m   | 30.62    | ug/L | 0.13    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 61.24%  |
| 24) Chloroform-d               | 5.13   | 84    | 42773    | 4.14     | ug/L | 0.05    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.78   | 65    | 25970    | 3.85     | ug/L | 0.06    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 77.00%  |
| 32) Benzene-d6                 | 5.80   | 84    | 65679    | 3.74     | ug/L | 0.06    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 74.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 24757    | 4.09     | ug/L | 0.04    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 81.80%  |
| 41) Toluene-d8                 | 7.92   | 98    | 52361    | 3.16     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 63.20%# |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 9354     | 3.59     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 71.80%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 45723    | 32.82    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 65.64%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 23211    | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 79.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 23617    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 83.80%  |

## Target Compounds

| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.64  | 62   | 17059    | 3.027  | ug/L # | 69     |
| 14) Carbon disulfide         | 2.84  | 76   | 2115     | 0.170  | ug/L   | 99     |
| 16) Methylene chloride       | 3.11  | 84   | 1195     | 0.226  | ug/L   | 86     |
| 18) trans-1,2-Dichloroethene | 3.40  | 96   | 1209     | 0.294  | ug/L   | 94     |
| 22) cis-1,2-Dichloroethene   | 4.72  | 96   | 113037   | 24.315 | ug/L   | 96     |
| 34) Trichloroethene          | 6.59  | 95   | 786      | 0.165  | ug/L   | 92     |
| 42) Toluene                  | 8.00  | 91   | 22914    | 1.213  | ug/L   | 99     |
| 52) Ethylbenzene             | 9.58  | 91   | 12096    | 0.600  | ug/L   | 98     |
| 53) m,p-Xylene               | 9.70  | 106  | 6737     | 0.924  | ug/L   | 97     |
| 54) o-Xylene                 | 10.11 | 106  | 4606     | 0.656  | ug/L   | 99     |
| 56) Isopropylbenzene         | 10.49 | 105  | 722      | 0.039  | ug/L # | 85     |

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

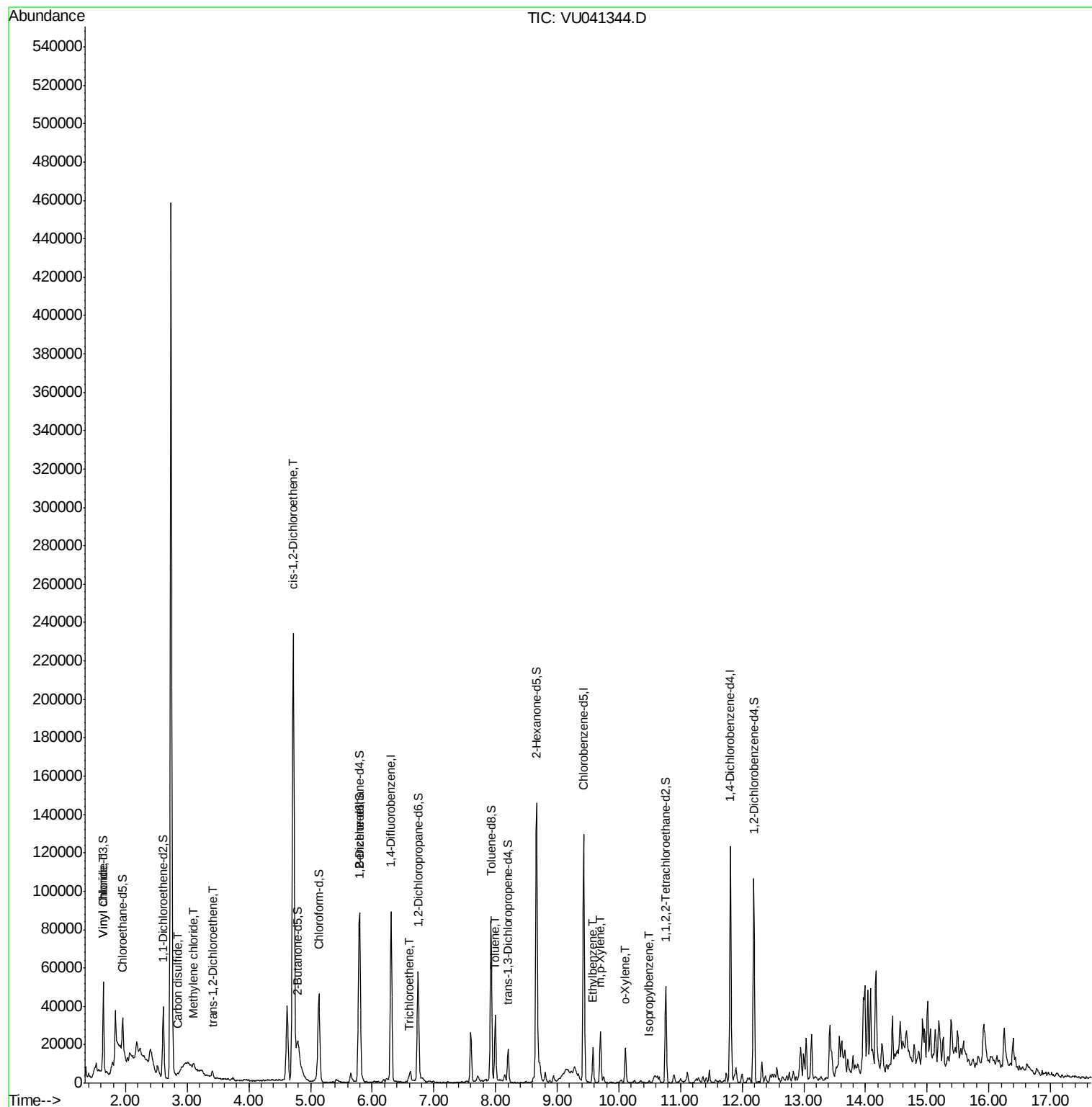
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\  
Data File : VU041344.D  
Acq On : 19 Nov 2020 15:31  
Operator : SY/MD  
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Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 32 Sample Multiplier: 1

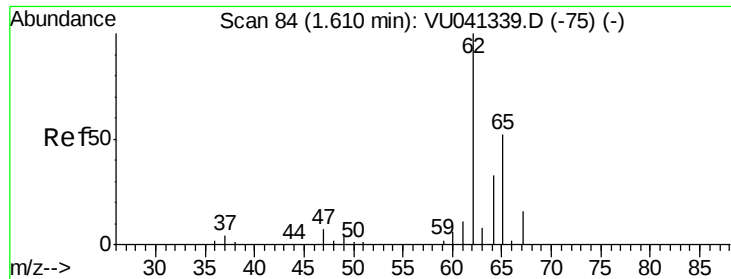
Instrument :  
MSVOA\_U  
ClientSampleId :  
H4398

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Quant Time: Nov 20 06:44:06 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 20 05:56:10 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.027 ug/L

RT: 1.64 min Scan# 94

Delta R.T. 0.03 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA\_U

ClientSampled :

H4398

Tot Ion: 62 Resp: 17059

Ion Ratio Lower Upper

62 100

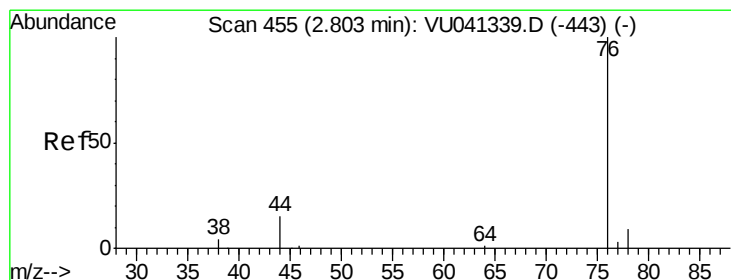
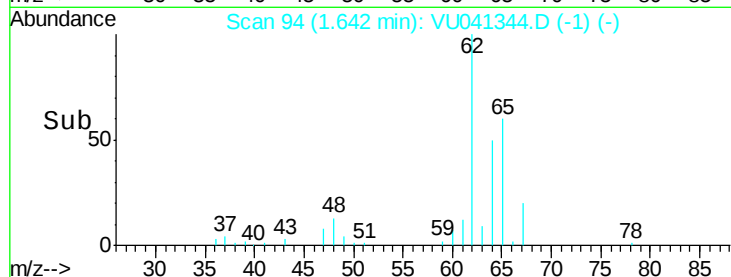
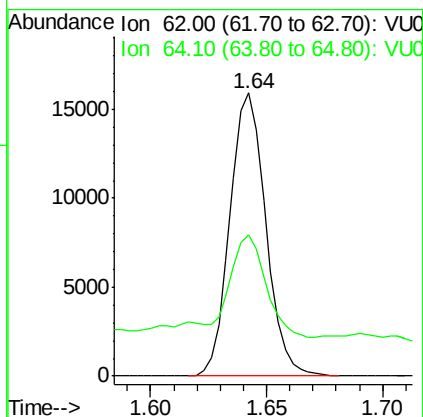
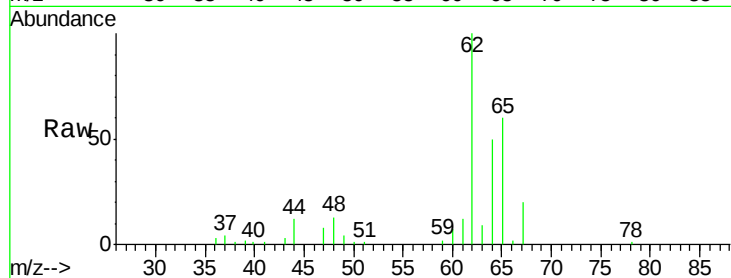
64 49.9 22.7 42.3#

Manual Integrations

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#14

Carbon disulfide

Concen: 0.170 ug/L

RT: 2.84 min Scan# 467

Delta R.T. 0.04 min

Lab File: VU041344.D

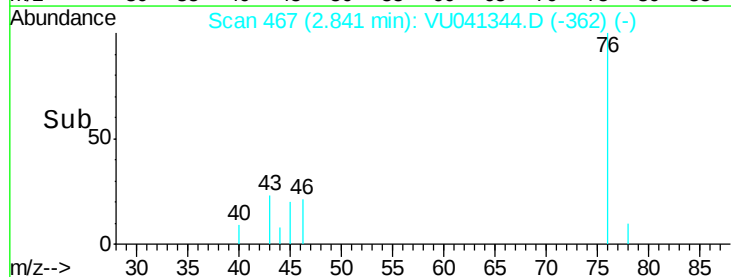
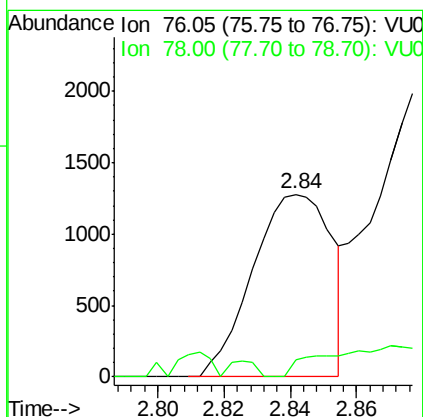
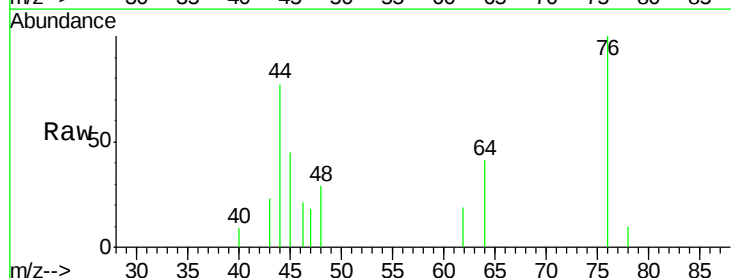
Acq: 19 Nov 2020 15:31

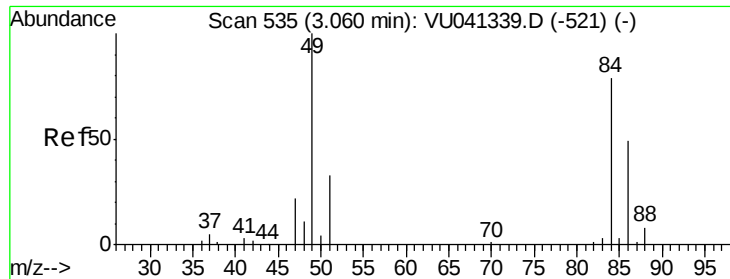
Tgt Ion: 76 Resp: 2115

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3





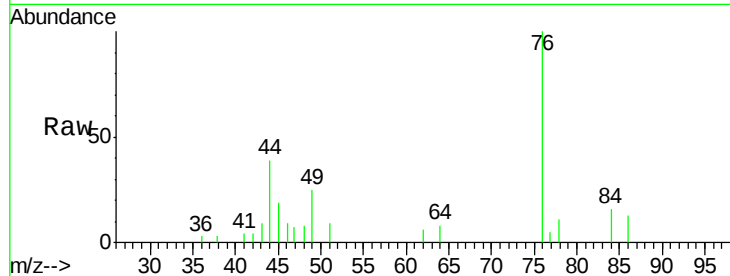
#16  
Methvlene chloride  
Concen: 0.226 ug/L  
RT: 3.11 min Scan# 549  
Delta R.T. 0.04 min  
Lab File: VU041344.D  
Acq: 19 Nov 2020 15:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4398

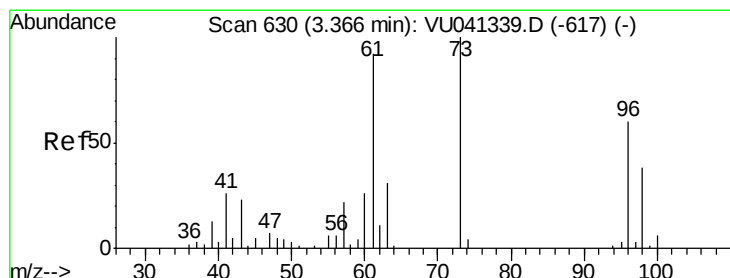
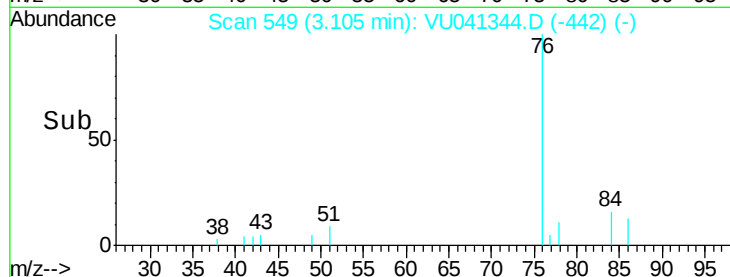
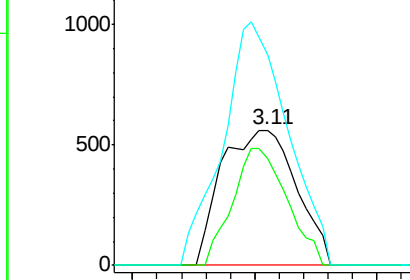
Tot Ion: 84 Resp: 1195  
Ion Ratio Lower Upper  
84 100  
86 78.4 42.8 79.6  
49 155.4 99.5 184.7

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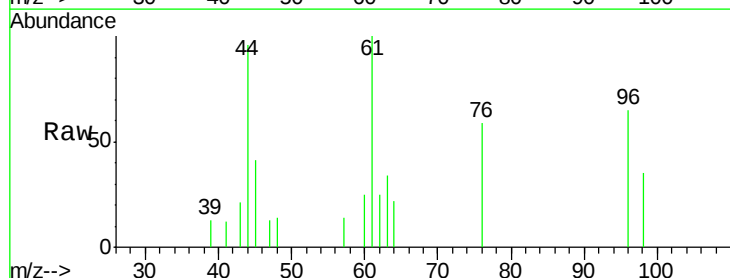


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

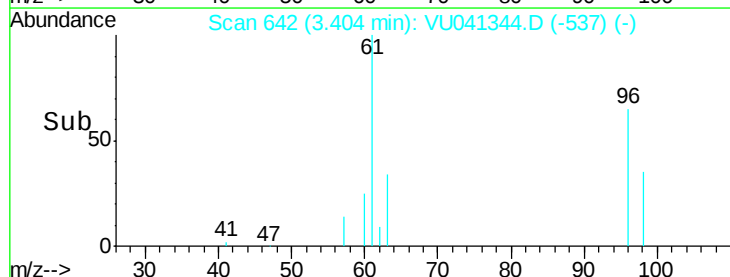
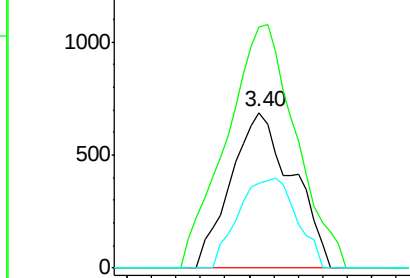


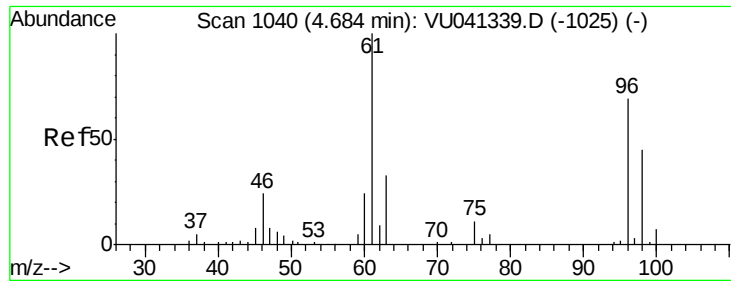
#18  
trans-1,2-Dichloroethene  
Concen: 0.294 ug/L  
RT: 3.40 min Scan# 642  
Delta R.T. 0.04 min  
Lab File: VU041344.D  
Acq: 19 Nov 2020 15:31

Tgt Ion: 96 Resp: 1209  
Ion Ratio Lower Upper  
96 100  
61 154.8 110.9 205.9  
98 54.4 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0





#22

cis-1,2-Dichloroethene

Concen: 24.315 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.04 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA\_U

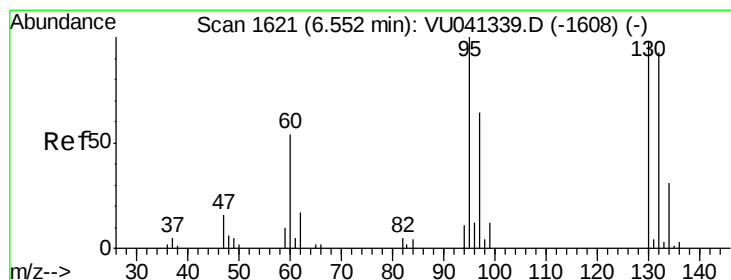
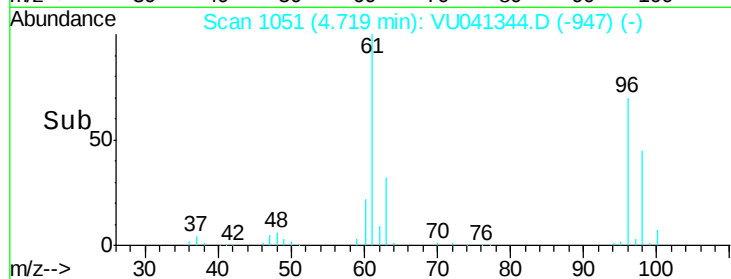
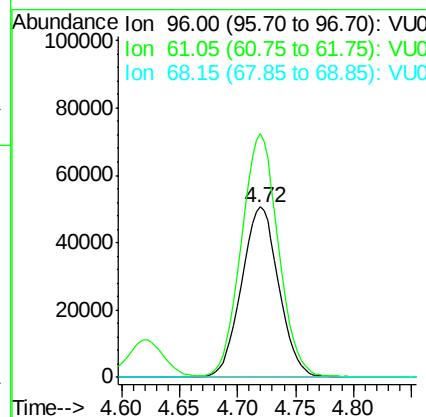
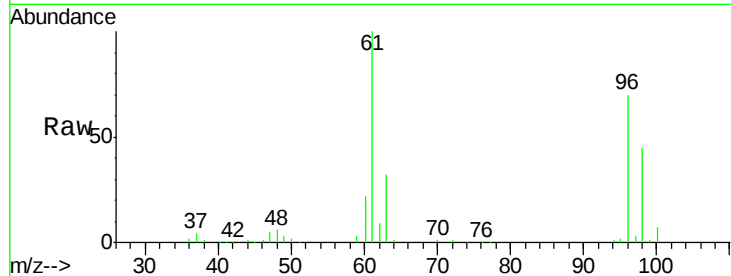
ClientSampleId :

H4398

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 113037 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 143.2 | 97.2  | 180.4  |
| 68       | 0.0   | 0.0   | 0.0    |

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#34

Trichloroethene

Concen: 0.165 ug/L

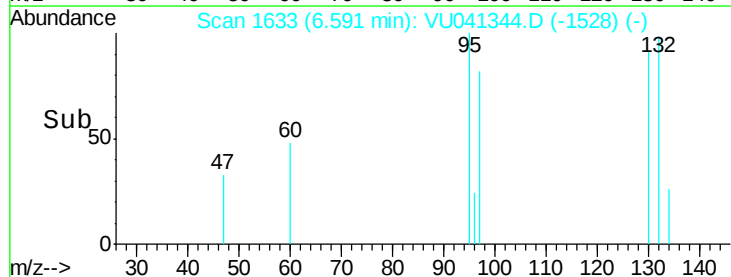
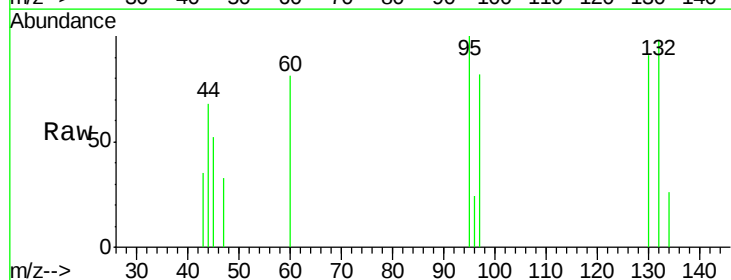
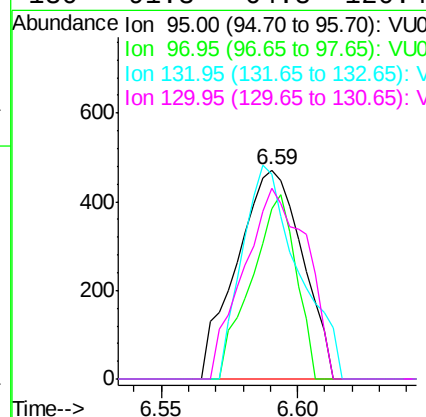
RT: 6.59 min Scan# 1633

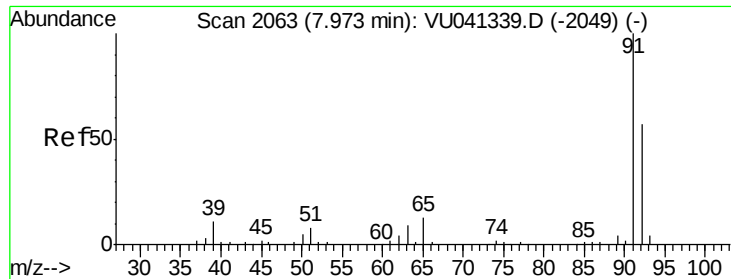
Delta R.T. 0.04 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 786   |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 81.6  | 45.6  | 84.6  |
| 132      | 97.7  | 64.8  | 120.4 |
| 130      | 91.3  | 64.8  | 120.4 |





#42

Toluene

Concen: 1.213 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.02 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA\_U

ClientSampleId :

H4398

Tot Ion: 91 Resp: 22914

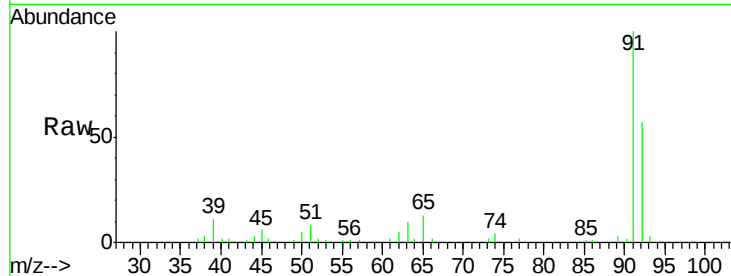
Ion Ratio Lower Upper

91 100

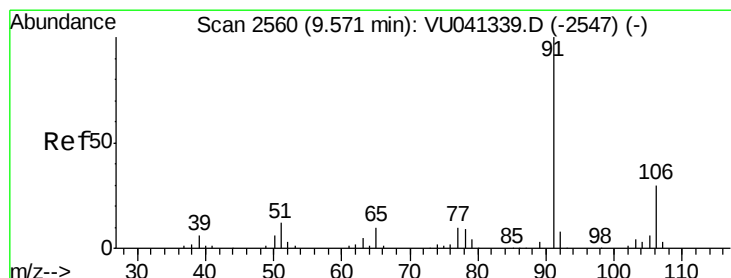
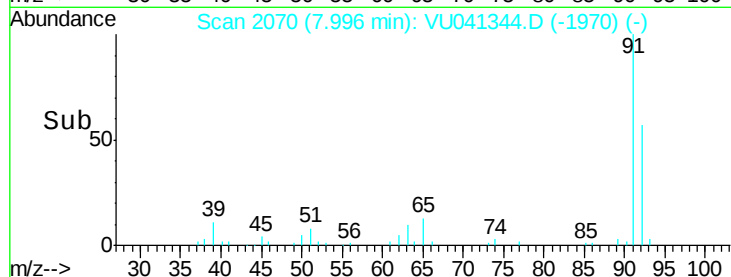
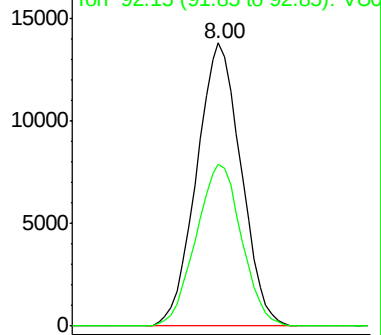
92 57.2 40.6 75.4

Manual Integrations  
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Abundance Ion 91.15 (90.85 to 91.85): VU041339.D (-2049) (-)



#52

Ethylbenzene

Concen: 0.600 ug/L

RT: 9.58 min Scan# 2563

Delta R.T. 0.01 min

Lab File: VU041344.D

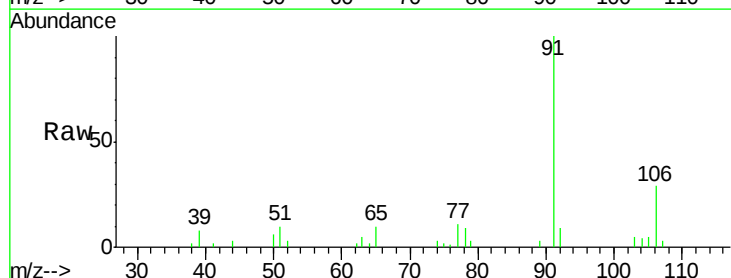
Acq: 19 Nov 2020 15:31

Tgt Ion: 91 Resp: 12096

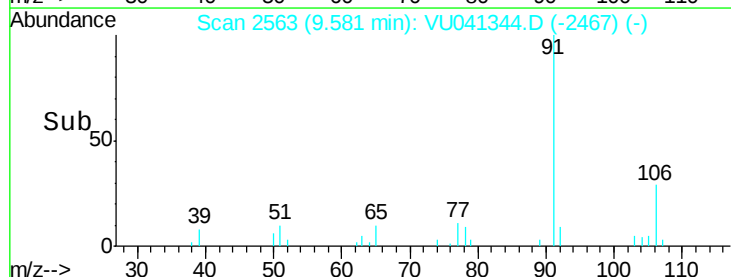
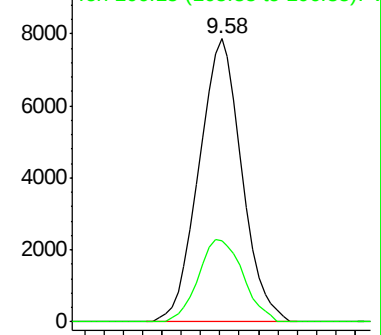
Ion Ratio Lower Upper

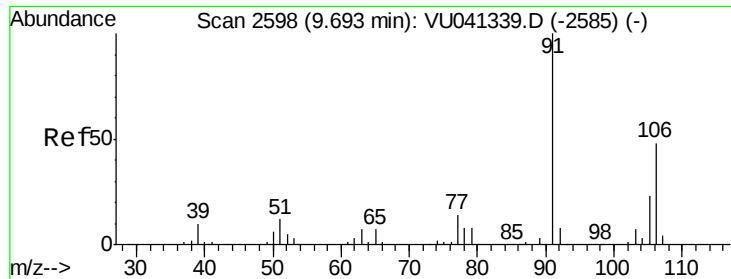
91 100

106 28.7 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041339.D (-2547) (-)





#53

m,p-Xylene

Concen: 0.924 ug/L

RT: 9.70 min Scan# 2600

Delta R.T. 0.01 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA\_U

ClientSampleId :

H4398

Tot Ion:106 Resp: 6737

Ion Ratio Lower Upper

106 100

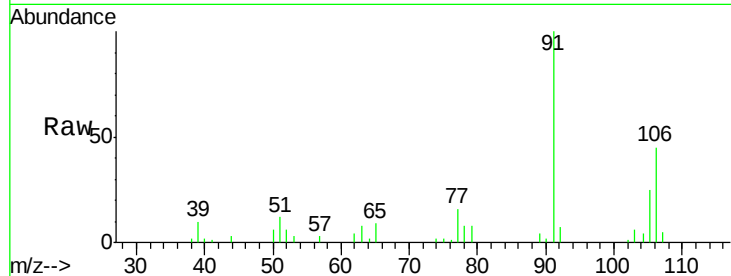
91 221.0 150.9 280.3

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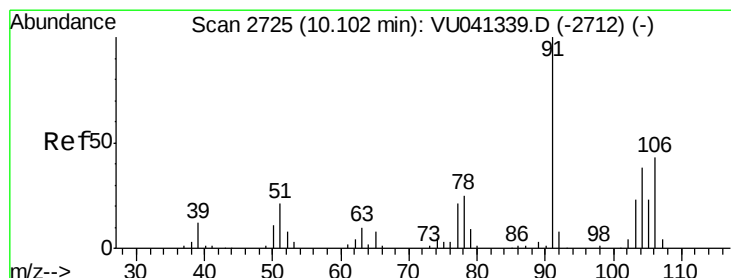
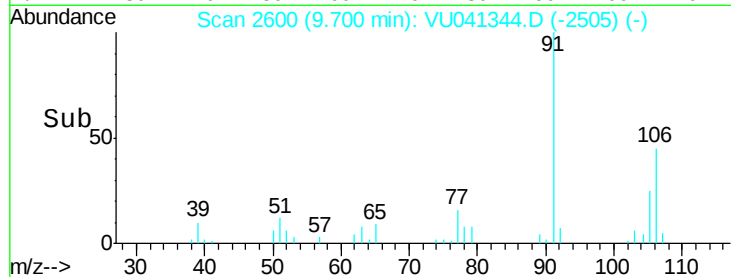
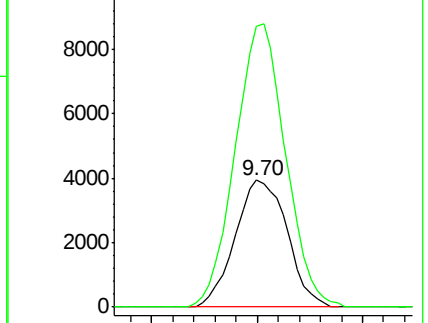
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.656 ug/L

RT: 10.11 min Scan# 2727

Delta R.T. 0.01 min

Lab File: VU041344.D

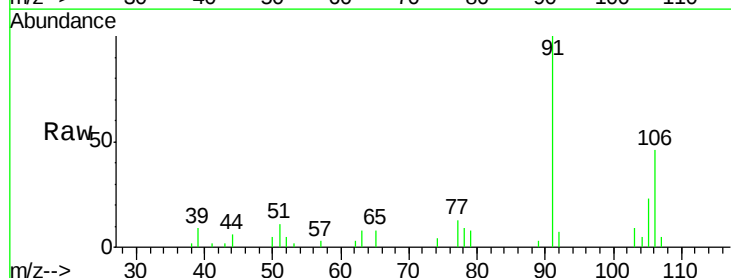
Acq: 19 Nov 2020 15:31

Tgt Ion:106 Resp: 4606

Ion Ratio Lower Upper

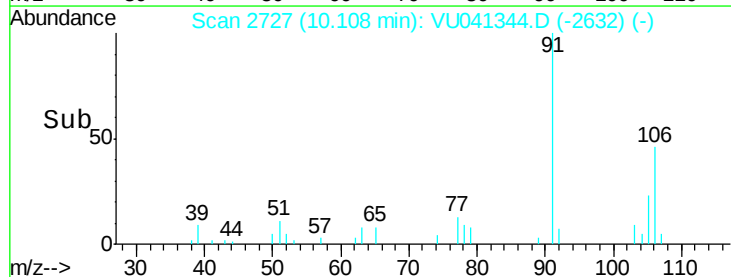
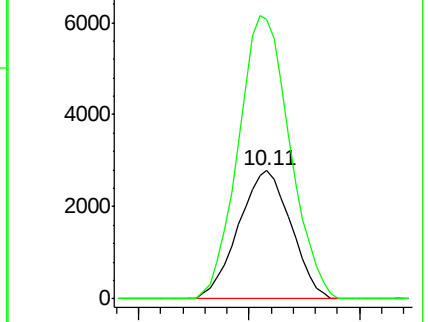
106 100

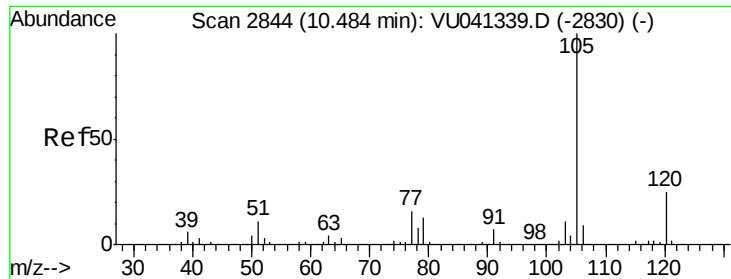
91 218.2 154.3 286.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 0.039 ug/L

RT: 10.49 min Scan# 2845

Delta R.T. 0.00 min

Lab File: VU041344.D

Acq: 19 Nov 2020 15:31

Instrument :

MSVOA\_U

ClientSampleId :

H4398

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 722   |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 14.7  | 20.7  | 31.1# |
| 77        | 14.8  | 13.8  | 20.6  |

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