

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\  
 Data File : VL037241.D  
 Acq On : 23 Jun 2021 11:19  
 Operator : SY/AP  
 Sample : M2797-02DL 100X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

Manual Integrations  
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 6/25/2021 2:21:23 PM

Quant Time: Jun 24 09:55:54 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jun 16 14:06:32 2021  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1557903  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4446577  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3903141  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2846016  | 9.62     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.20% |

| Target Compounds         | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|--------------------------|-------|------|----------|-------|-------|--------|
| 3) Chlorodifluoromethane | 2.98  | 51   | 413628   | 1.365 | ppbv  | 99     |
| 9) Propene               | 3.00  | 41   | 120912   | 1.248 | ppbv  | 95     |
| 13) Ethanol              | 3.62  | 45   | 47529m   | 3.172 | ppbv  |        |
| 15) Acetone              | 3.84  | 43   | 1029039  | 5.857 | ppbv  | 94     |
| 34) 2-Butanone           | 5.23  | 43   | 1562584  | 9.036 | ppbv  | 99     |
| 51) 2-Hexanone           | 10.14 | 43   | 85906m   | 0.743 | ppbv  |        |
| 52) Tetrachloroethene    | 11.20 | 164  | 52402m   | 0.314 | ppbv  |        |
| 53) Toluene              | 9.78  | 91   | 46652m   | 0.109 | ppbv  |        |

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

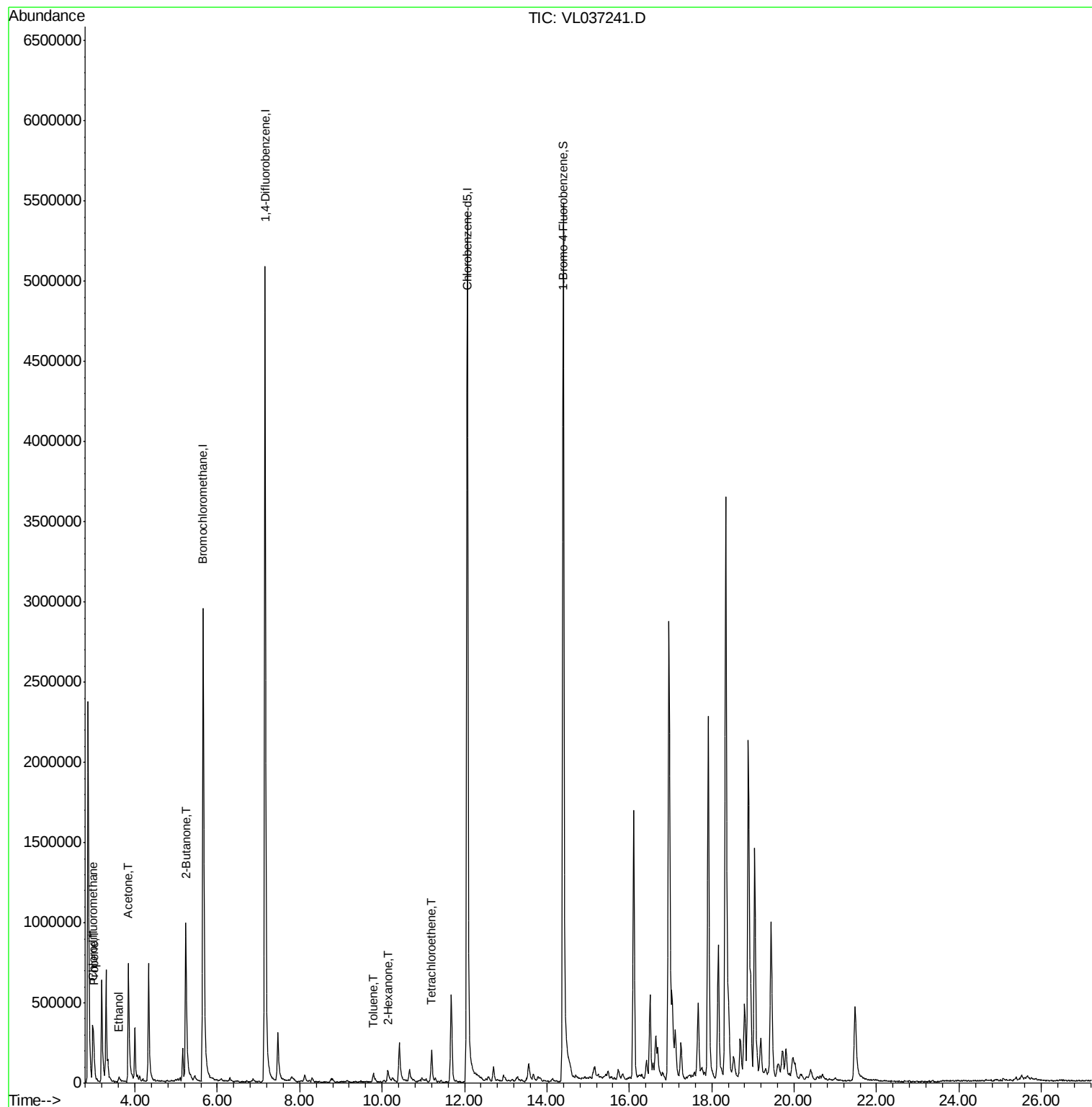
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\  
Data File : VL037241.D  
Acq On : 23 Jun 2021 11:19  
Operator : SY/AP  
Sample : M2797-02DL 100X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

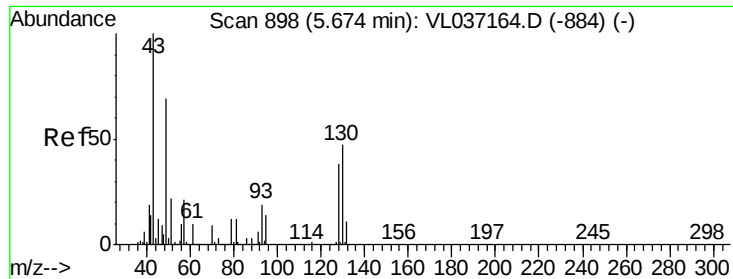
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

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Quant Time: Jun 24 09:55:54 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jun  
QLast Update : Wed Jun 16 14:06:32 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037241.D

Acq: 23 Jun 2021 11:19

Instrument :

MSVOA\_L

ClientSampled :

SV2DL

Tot Ion: 49 Resp: 1557903

Ion Ratio Lower Upper

49 100

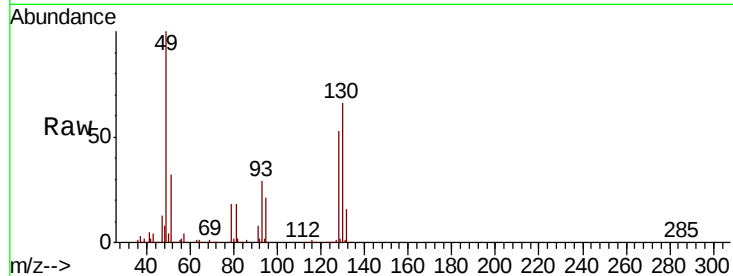
128 55.6 29.3 88.0

130 70.9 35.9 107.8

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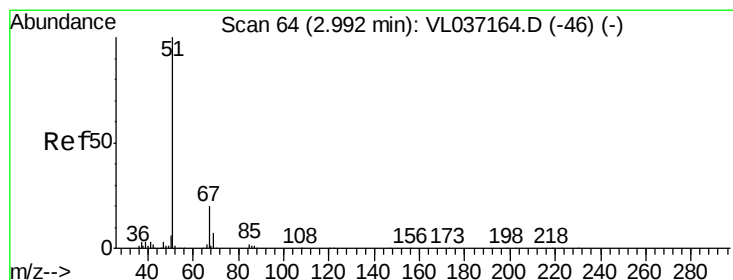
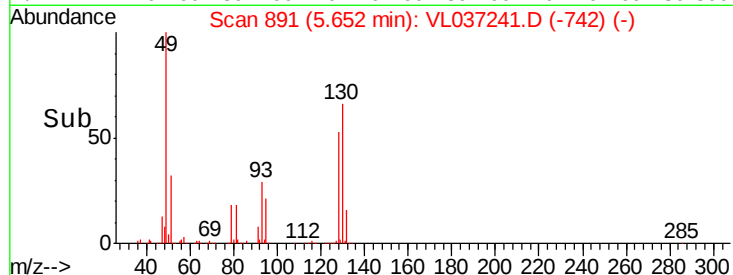
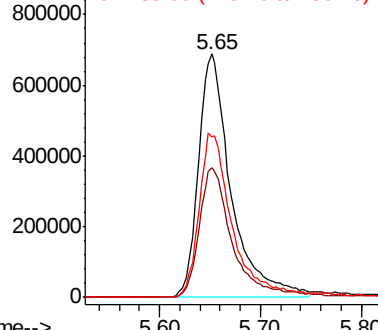
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 1.365 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037241.D

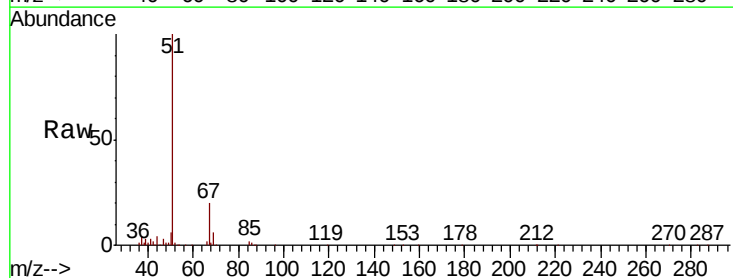
Acq: 23 Jun 2021 11:19

Tgt Ion: 51 Resp: 413628

Ion Ratio Lower Upper

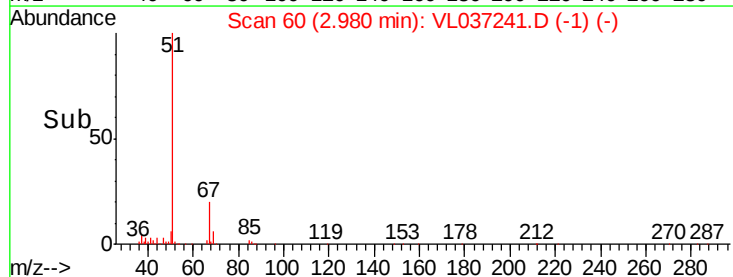
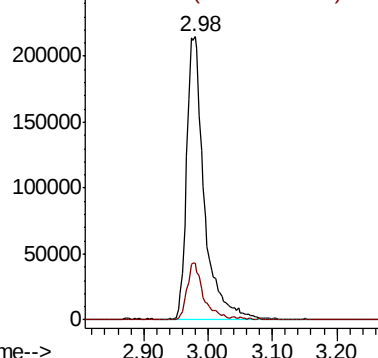
51 100

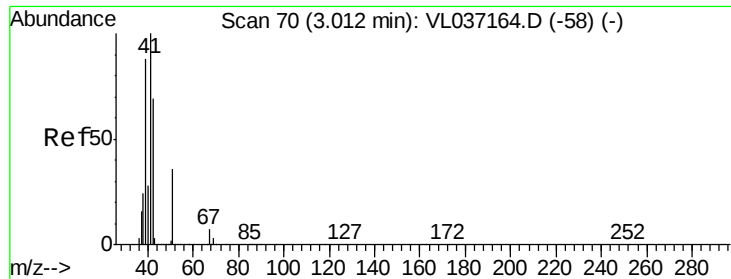
67 19.2 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.248 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL037241.D

Acq: 23 Jun 2021 11:19

Instrument :

MSVOA\_L

ClientSampleId :

SV2DL

Tot Ion: 41 Resp: 120912

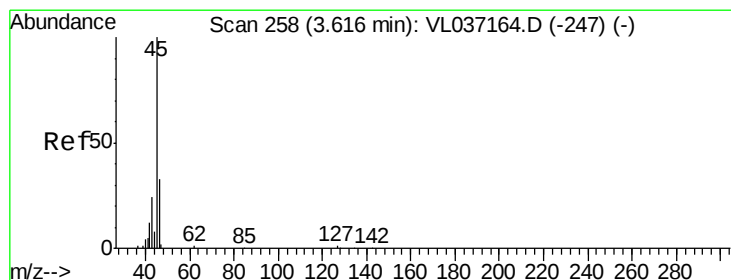
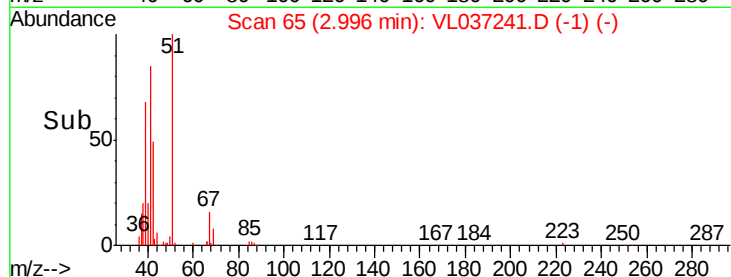
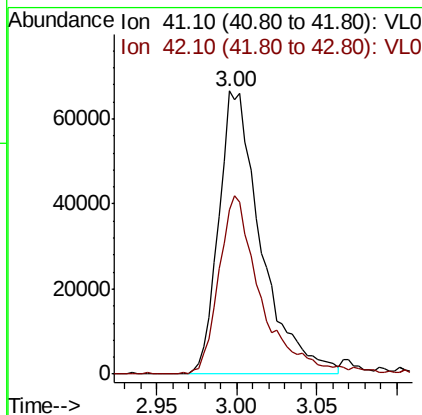
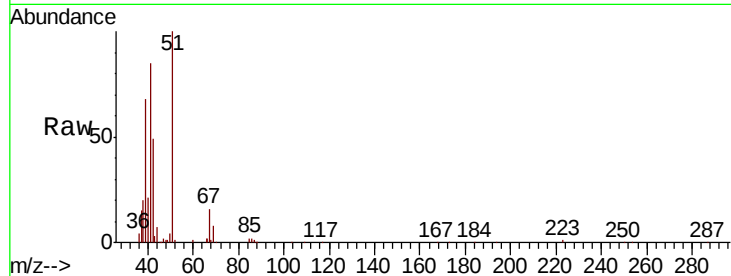
Ion Ratio Lower Upper

41 100

42 63.7 54.5 81.7

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#13

Ethanol

Concen: 3.172 ppbv m

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL037241.D

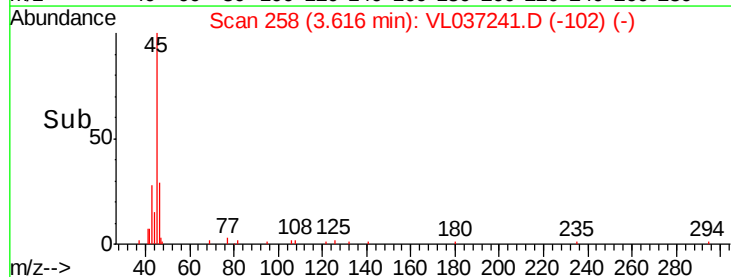
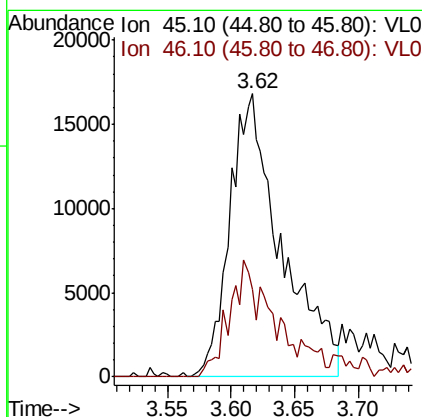
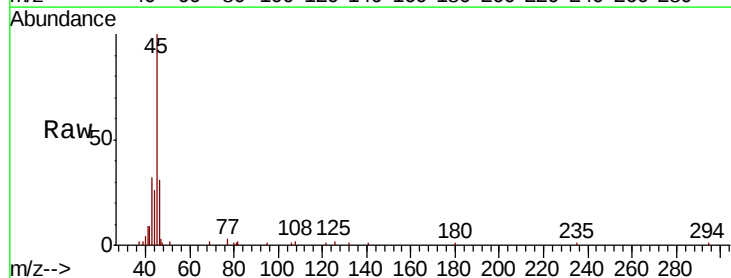
Acq: 23 Jun 2021 11:19

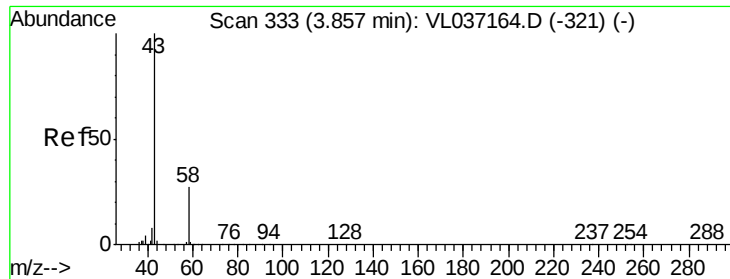
Tgt Ion: 45 Resp: 47529

Ion Ratio Lower Upper

45 100

46 36.6 34.2 137.0





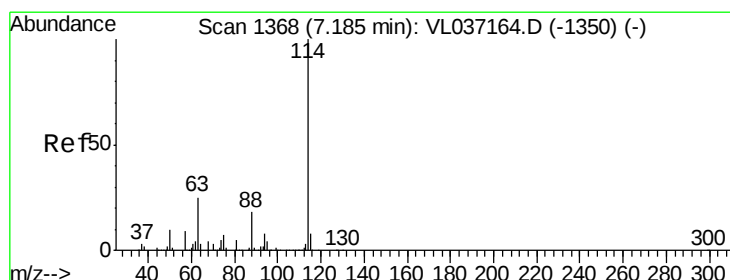
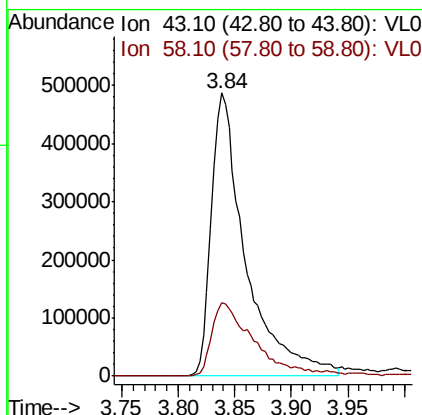
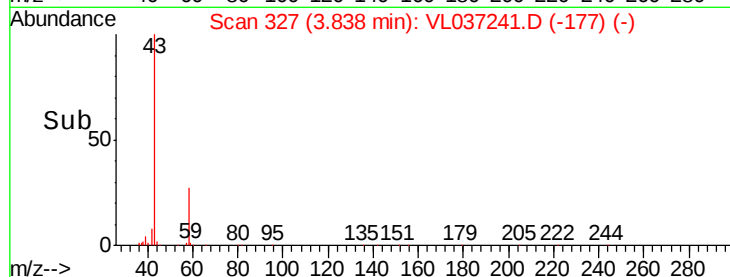
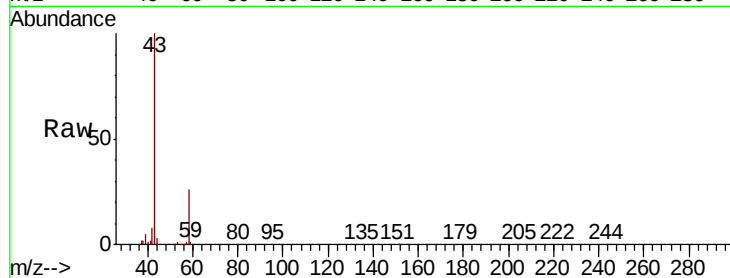
#15  
Acetone  
Concen: 5.857 ppbv  
RT: 3.84 min Scan# 327  
Delta R.T. -0.02 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

Instrument :  
MSVOA\_L  
ClientSampled :  
SV2DL

Tot Ion: 43 Resp: 1029039  
Ion Ratio Lower Upper  
43 100  
58 32.7 23.7 35.5

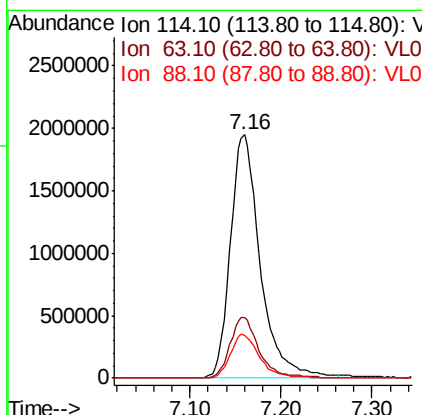
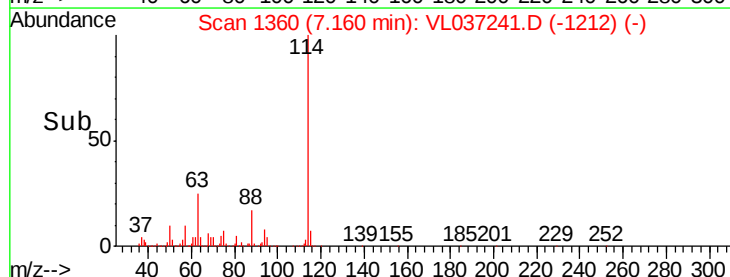
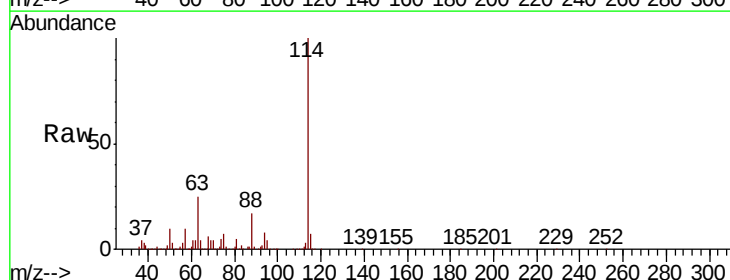
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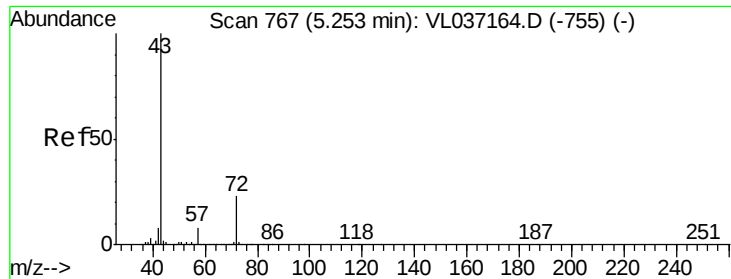
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.16 min Scan# 1360  
Delta R.T. -0.03 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

Tgt Ion: 114 Resp: 4446577  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.6 29.4  
88 18.1 14.2 21.2





#34

2-Butanone

Concen: 9.036 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL037241.D

Acq: 23 Jun 2021 11:19

Instrument :

MSVOA\_L

ClientSampled :

SV2DL

Tot Ion: 43 Resp: 1562584

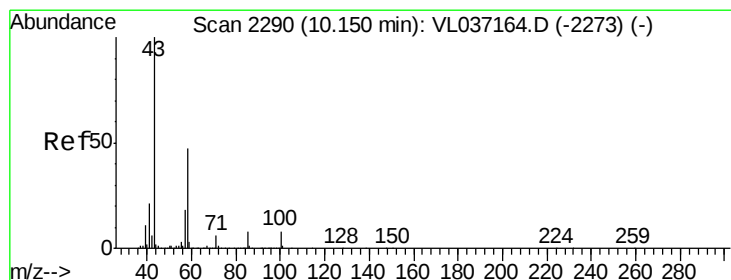
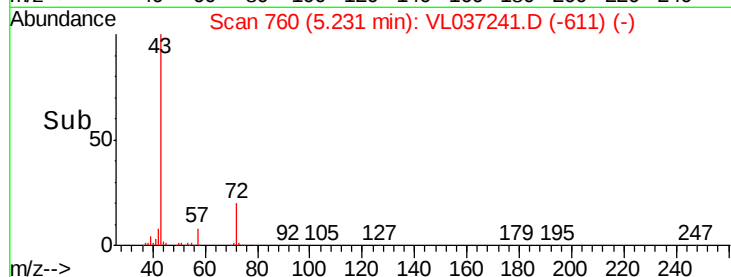
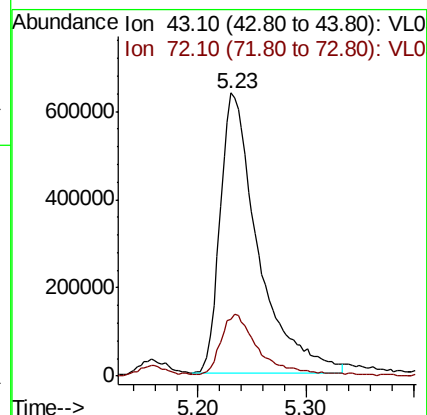
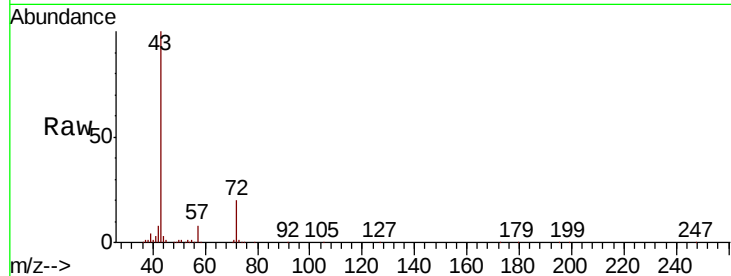
Ion Ratio Lower Upper

43 100

72 23.3 18.9 28.3

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#51

2-Hexanone

Concen: 0.743 ppbv m

RT: 10.14 min Scan# 2286

Delta R.T. -0.01 min

Lab File: VL037241.D

Acq: 23 Jun 2021 11:19

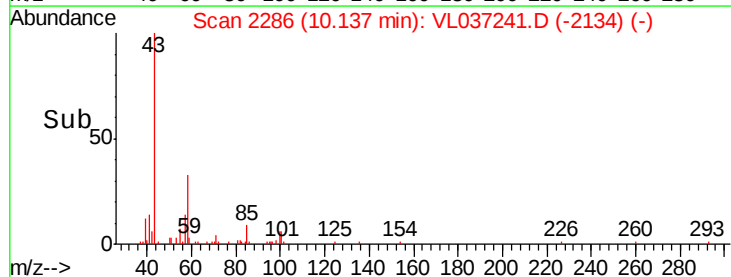
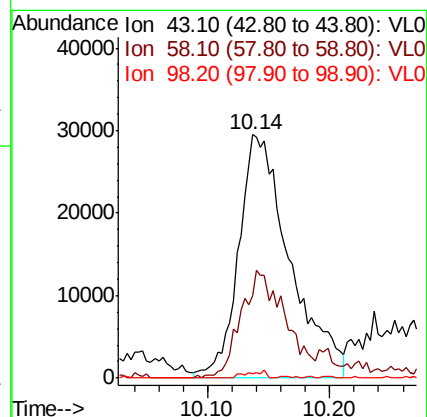
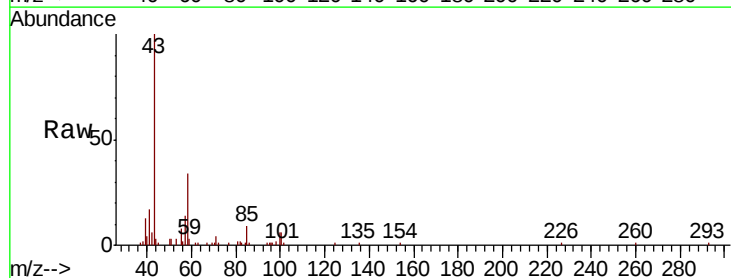
Tgt Ion: 43 Resp: 85906

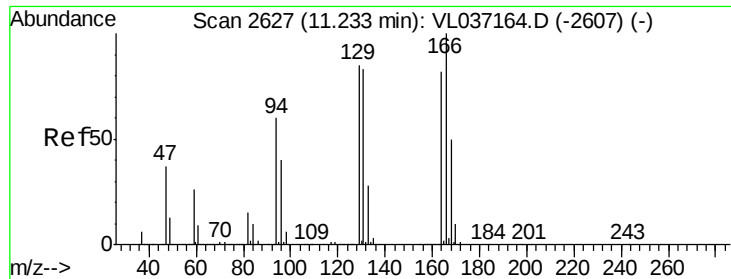
Ion Ratio Lower Upper

43 100

58 45.3 38.4 57.6

98 1.2 0.3 0.5#





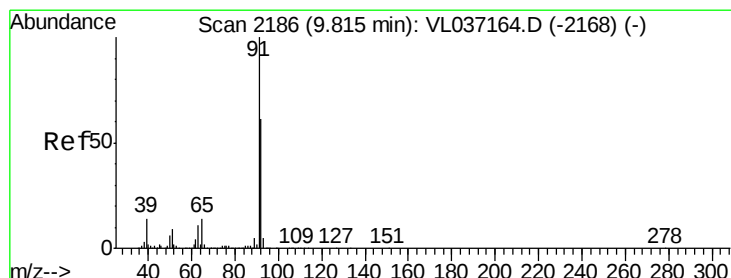
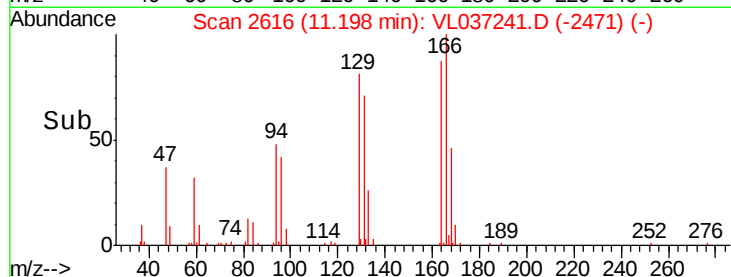
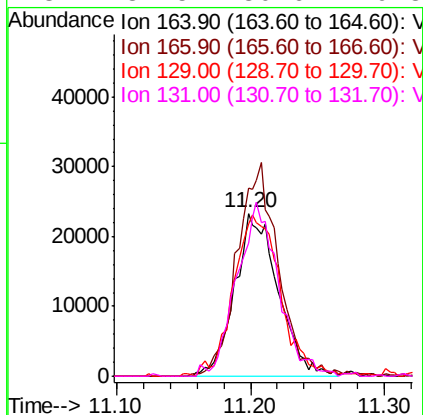
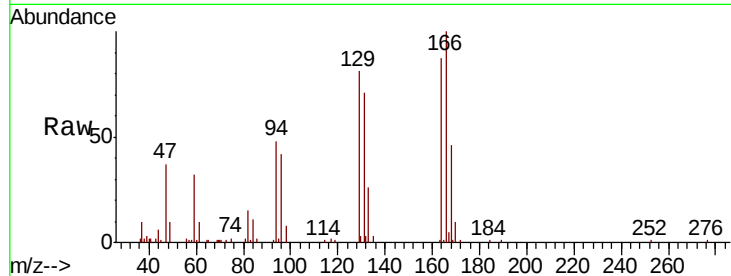
#52  
Tetrachloroethene  
Concen: 0.314 ppbv m  
RT: 11.20 min Scan# 2616  
Delta R.T. -0.04 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 52402 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 115.5 | 97.6  | 146.4 |
| 129      | 93.4  | 82.9  | 124.3 |
| 131      | 81.5  | 80.6  | 120.8 |

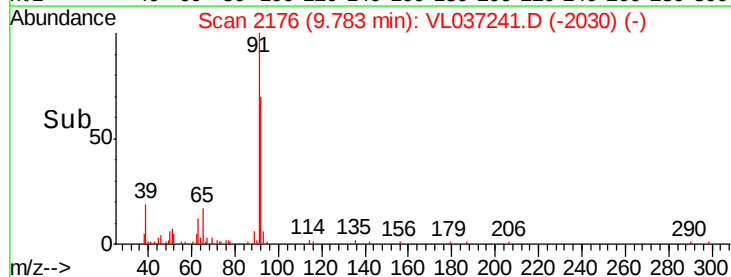
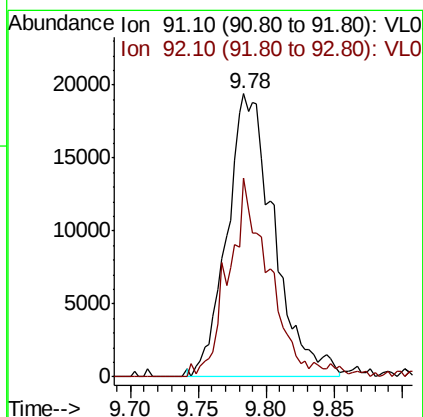
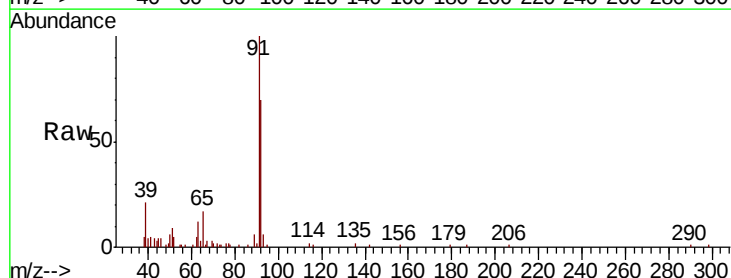
Manual Integrations  
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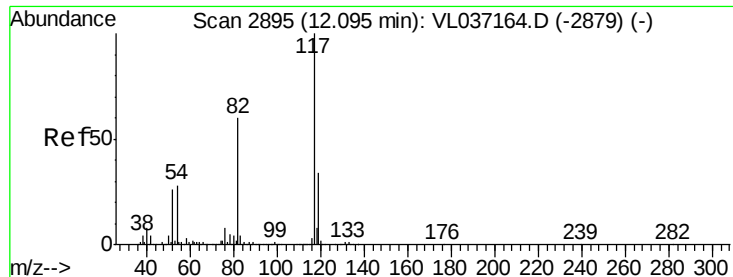
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#53  
Toluene  
Concen: 0.109 ppbv m  
RT: 9.78 min Scan# 2176  
Delta R.T. -0.03 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 46652 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 62.0  | 48.3  | 72.5  |





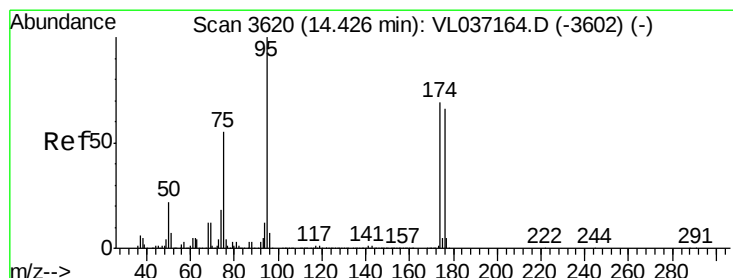
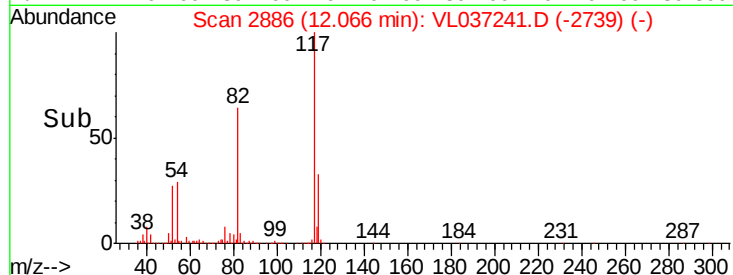
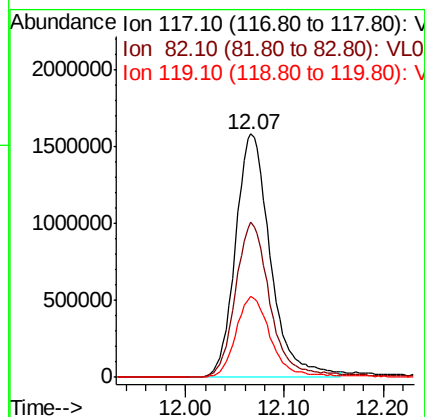
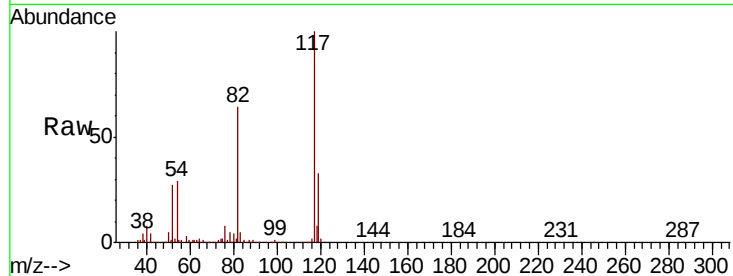
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2886  
Delta R.T. -0.03 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 65.4  | 51.7  | 77.5  |
| 119     | 33.8  | 47.6  | 71.4# |

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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.623 ppbv  
RT: 14.40 min Scan# 3612  
Delta R.T. -0.03 min  
Lab File: VL037241.D  
Acq: 23 Jun 2021 11:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.9  | 57.0  | 85.4  |
| 175     | 5.4   | 4.4   | 6.6   |

