

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\  
 Data File : VL035952.D  
 Acq On : 16 Nov 2020 20:33  
 Operator : SY/AP  
 Sample : L4722-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SR-3DL

Manual Integrations  
 APPROVED

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 11/18/2020 9:07:45 AM

Quant Time: Nov 17 10:57:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 0  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1250031  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4341361  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 4113145  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2954691  | 10.11    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.10% |

| Target Compounds         | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------|------|------|----------|---------|--------|--------|
| 3) Chlorodifluoromethane | 2.98 | 51   | 59984m   | 0.401   | ppbv   |        |
| 9) Propene               | 3.01 | 41   | 16978m   | 0.310   | ppbv   |        |
| 13) Ethanol              | 3.60 | 45   | 2076115  | 174.663 | ppbv   | 96     |
| 15) Acetone              | 3.85 | 43   | 231810   | 1.735   | ppbv   | 94     |
| 19) Isopropyl Alcohol    | 3.97 | 45   | 383022   | 4.664   | ppbv # | 95     |
| 20) Methylene Chloride   | 4.34 | 84   | 79605    | 0.846   | ppbv   | 96     |
| 26) Hexane               | 5.69 | 57   | 37234    | 0.256   | ppbv # | 59     |
| 53) Toluene              | 9.81 | 91   | 53126    | 0.136   | ppbv   | 98     |

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

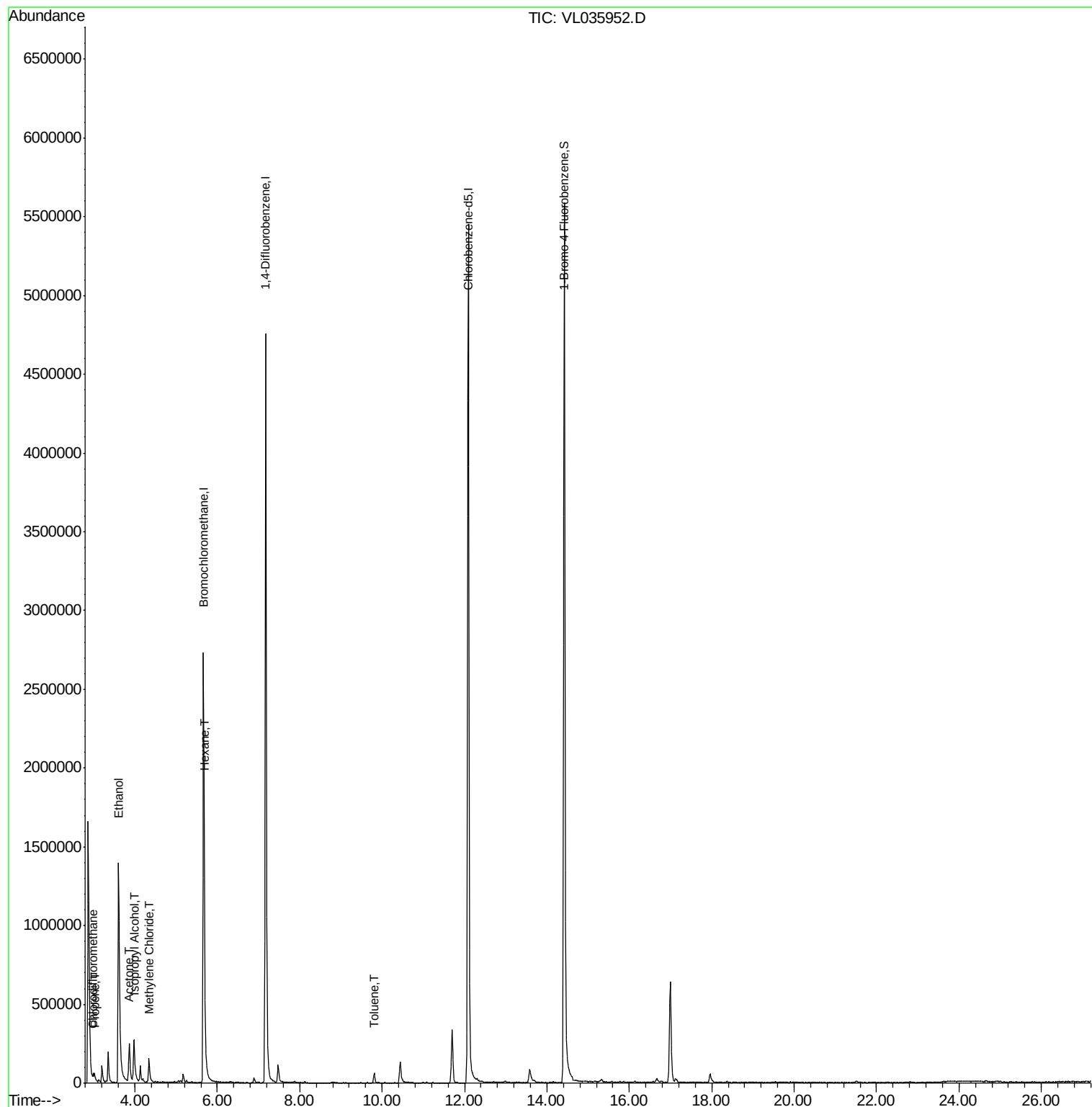
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\  
Data File : VL035952.D  
Acq On : 16 Nov 2020 20:33  
Operator : SY/AP  
Sample : L4722-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

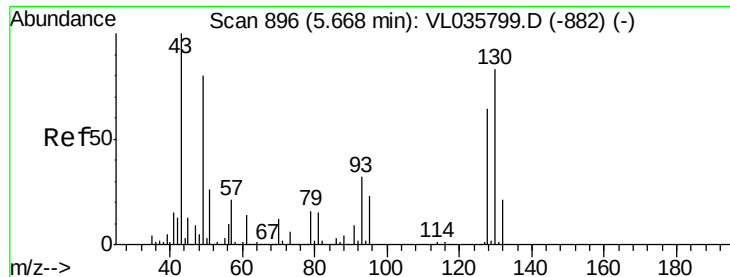
Instrument :  
MSVOA\_L  
ClientSampleId :  
SR-3DL

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Quant Time: Nov 17 10:57:33 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL035952.D

Acq: 16 Nov 2020 20:33

Instrument :

MSVOA\_L

ClientSampled :

SR-3DL

Tot Ion: 49 Resp: 1250031

Ion Ratio Lower Upper

49 100

128 76.5 41.5 124.6

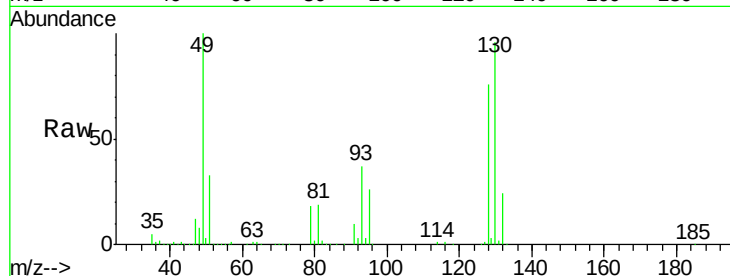
130 97.8 53.7 161.1

Manual Integrations

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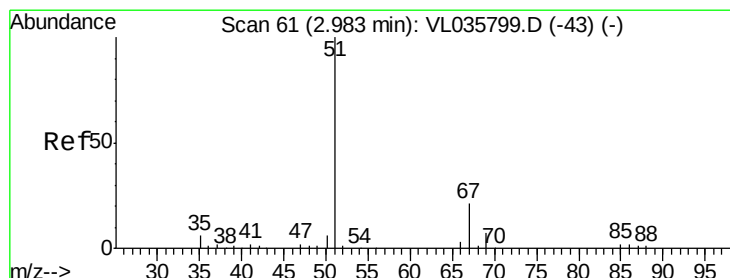
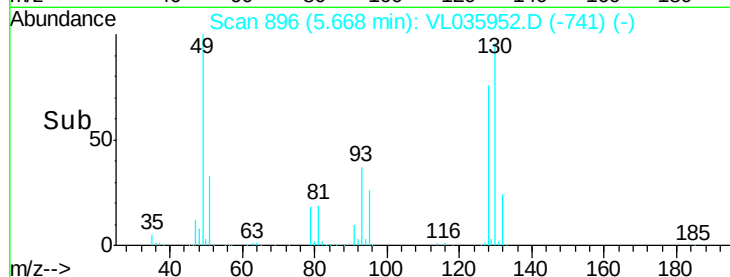
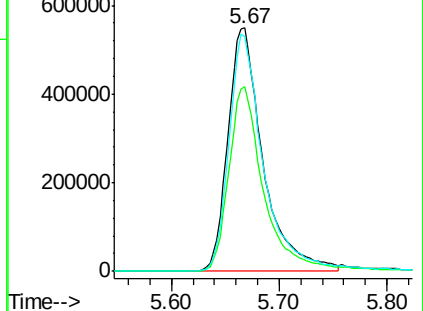
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.401 ppbv m

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035952.D

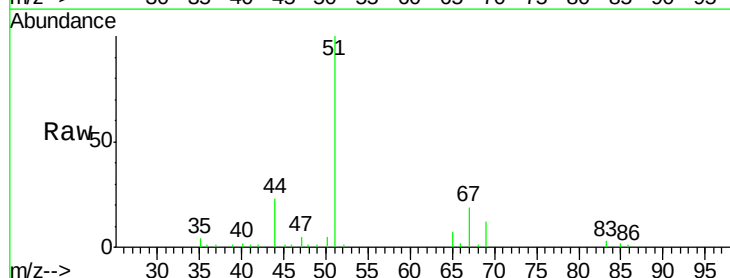
Acq: 16 Nov 2020 20:33

Tgt Ion: 51 Resp: 59984

Ion Ratio Lower Upper

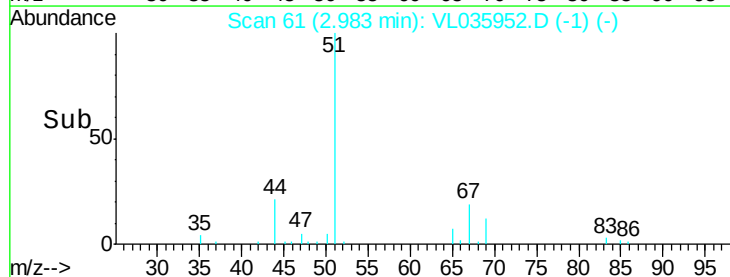
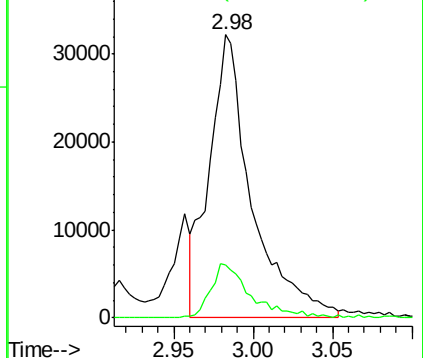
51 100

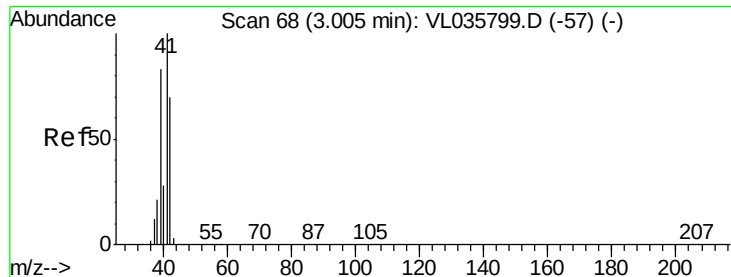
67 18.2 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.310 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035952.D

Acq: 16 Nov 2020 20:33

Instrument :

MSVOA\_L

ClientSampleId :

SR-3DL

Tot Ion: 41 Resp: 16978

Ion Ratio Lower Upper

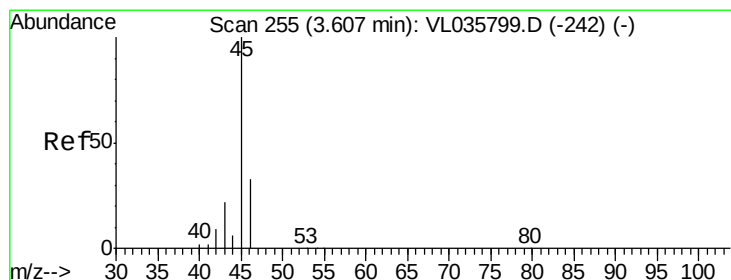
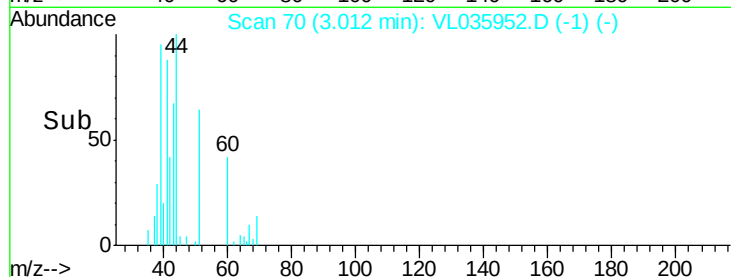
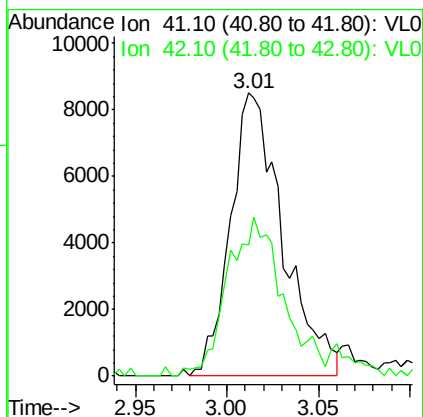
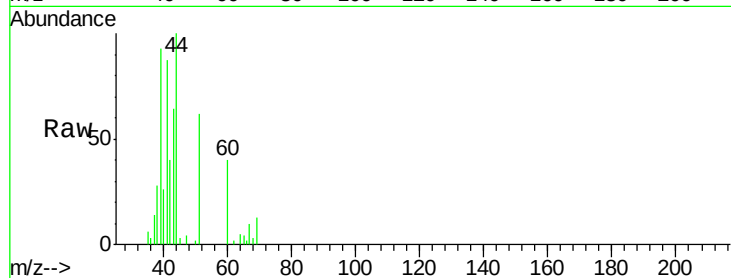
41 100

42 5.6 56.2 84.4#

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#13

Ethanol

Concen: 174.663 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL035952.D

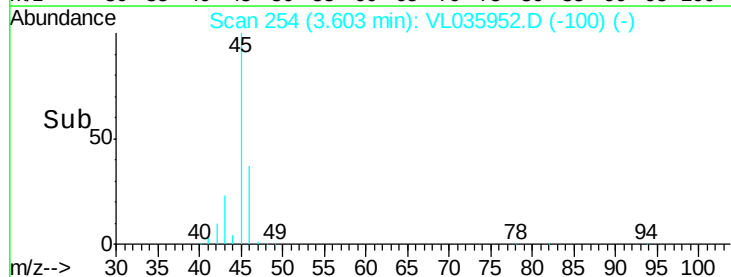
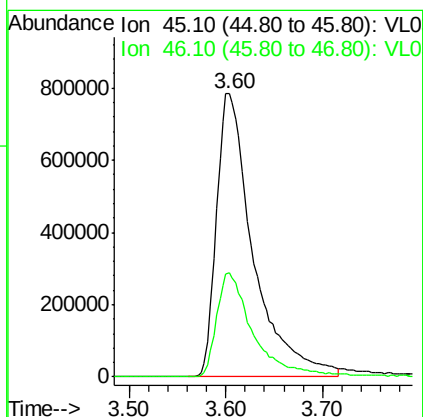
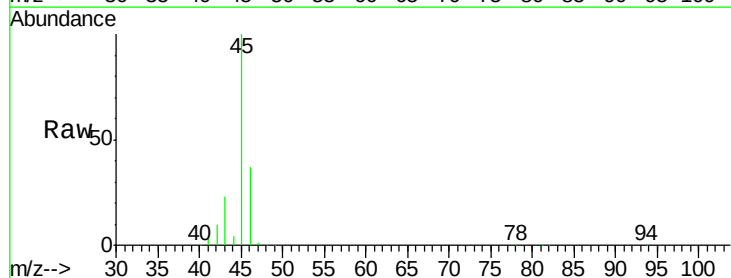
Acq: 16 Nov 2020 20:33

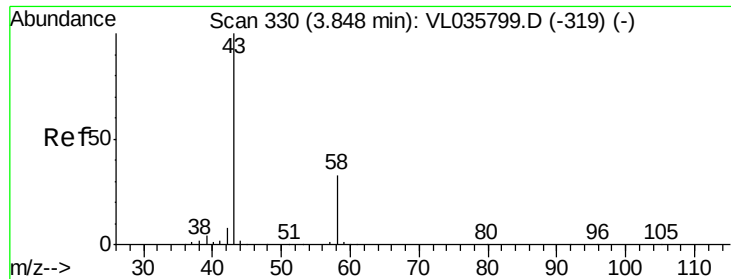
Tgt Ion: 45 Resp: 2076115

Ion Ratio Lower Upper

45 100

46 37.6 16.1 64.5





#15

Acetone

Concen: 1.735 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL035952.D

Acq: 16 Nov 2020 20:33

Instrument :

MSVOA\_L

ClientSampleId :

SR-3DL

Tot Ion: 43 Resp: 231810

Ion Ratio Lower Upper

43 100

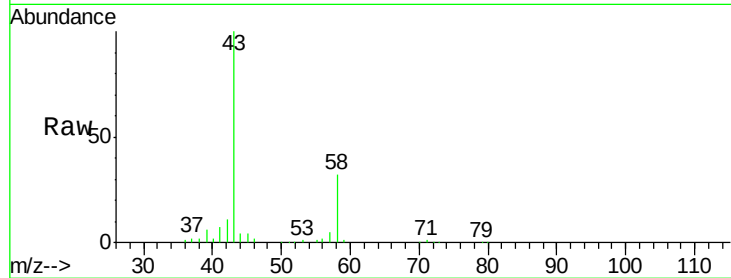
58 31.1 27.5 41.3

Manual Integrations

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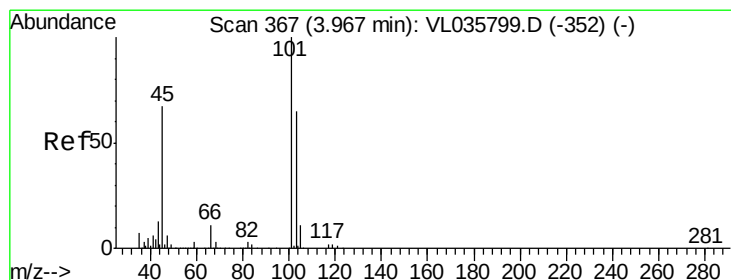
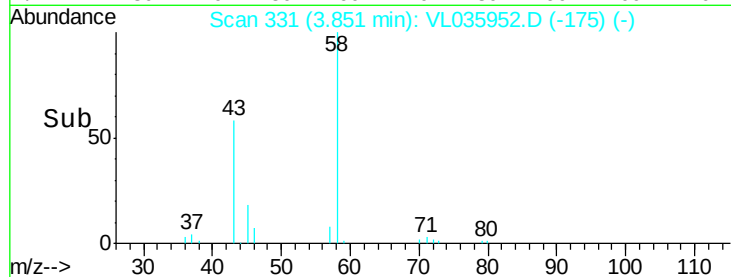
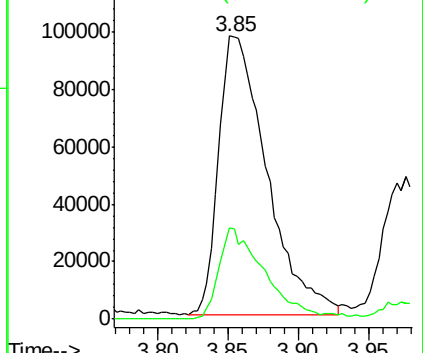
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 4.664 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL035952.D

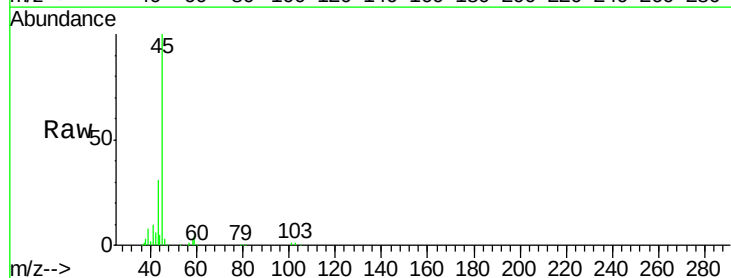
Acq: 16 Nov 2020 20:33

Tgt Ion: 45 Resp: 383022

Ion Ratio Lower Upper

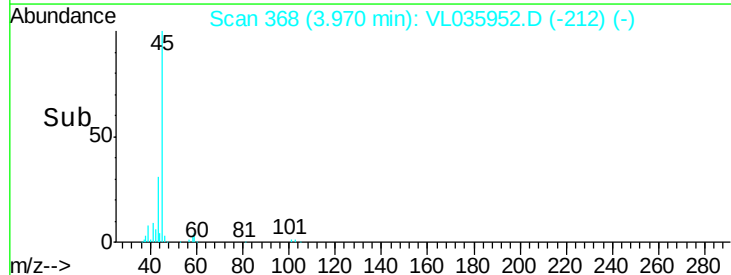
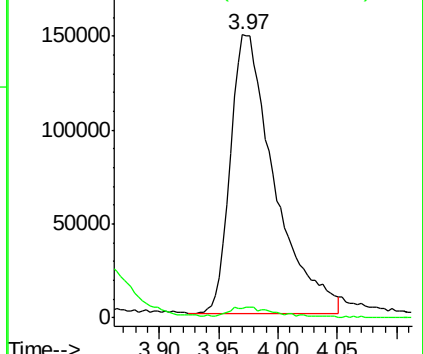
45 100

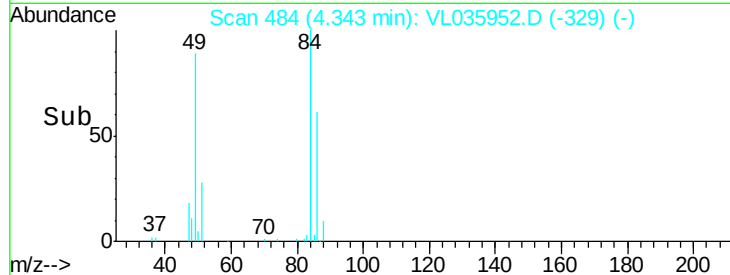
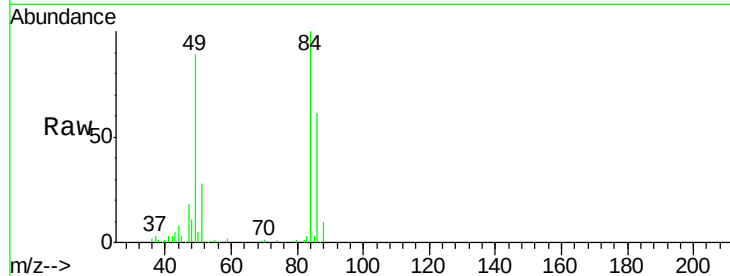
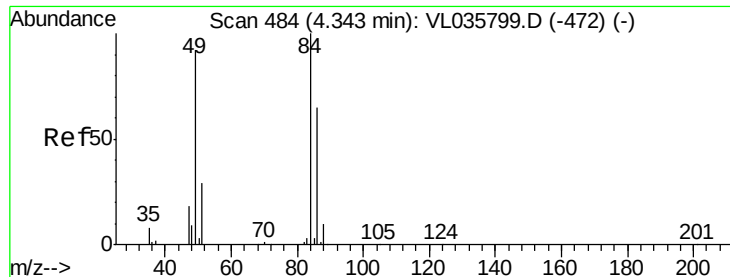
58 4.8 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





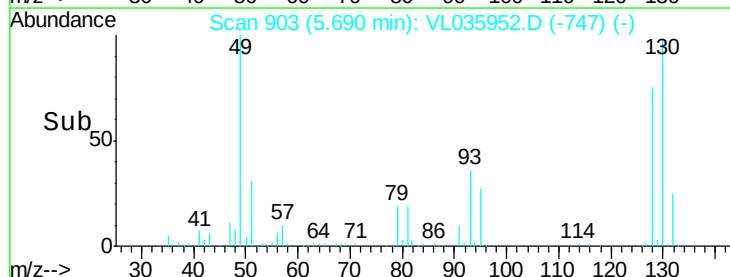
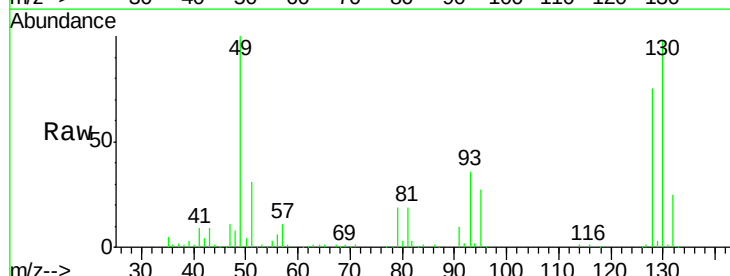
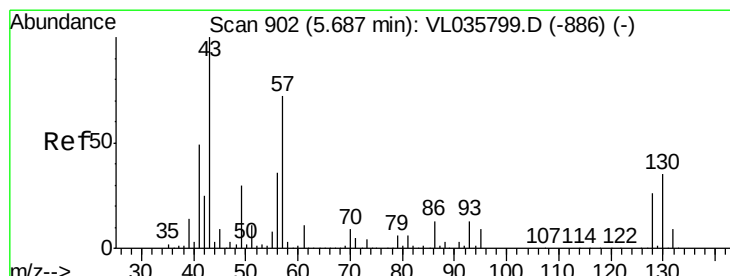
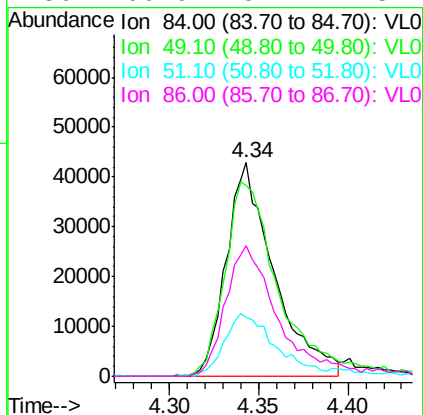
#20  
Methvlene Chloride  
Concen: 0.846 ppbv  
RT: 4.34 min Scan# 484  
Delta R.T. -0.00 min  
Lab File: VL035952.D  
Acq: 16 Nov 2020 20:33

| Tot Ion   | 84    | Resp  | 79605 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 49        | 88.5  | 73.8  | 110.8 |
| 51        | 27.4  | 23.0  | 34.4  |
| 86        | 60.9  | 52.1  | 78.1  |

Instrument :  
MSVOA\_L  
ClientSampleId :  
SR-3DL

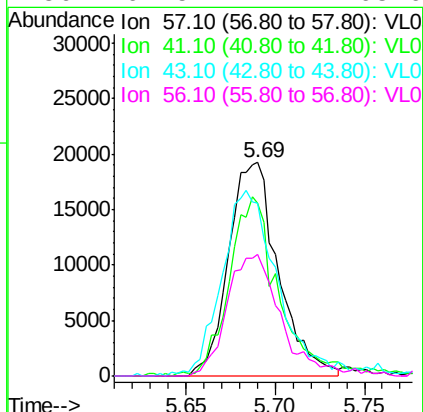
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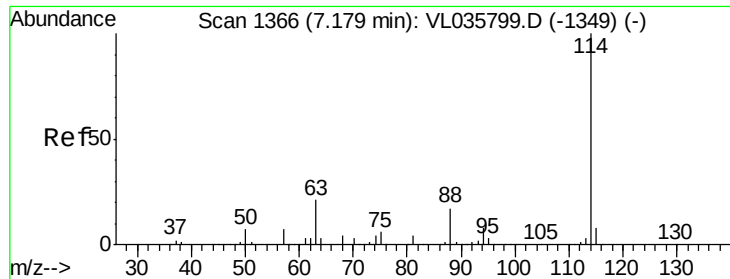
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#26  
Hexane  
Concen: 0.256 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.00 min  
Lab File: VL035952.D  
Acq: 16 Nov 2020 20:33

| Tgt Ion   | 57    | Resp  | 37234  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 86.3  | 58.9  | 88.3   |
| 43        | 101.6 | 150.2 | 225.2# |
| 56        | 62.5  | 42.4  | 63.6   |





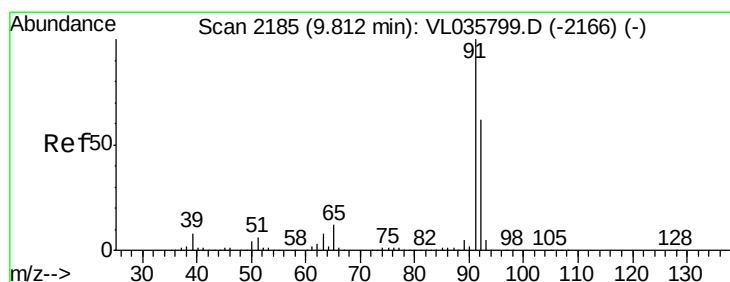
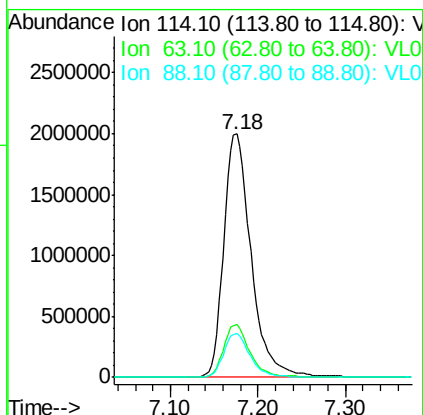
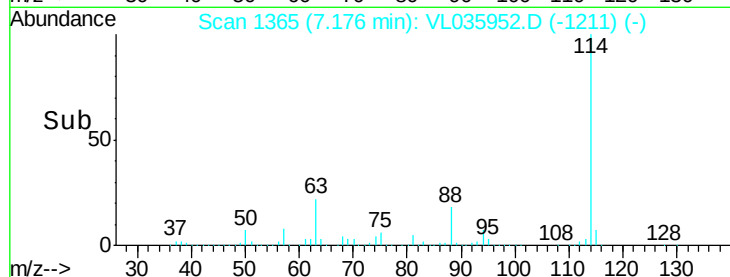
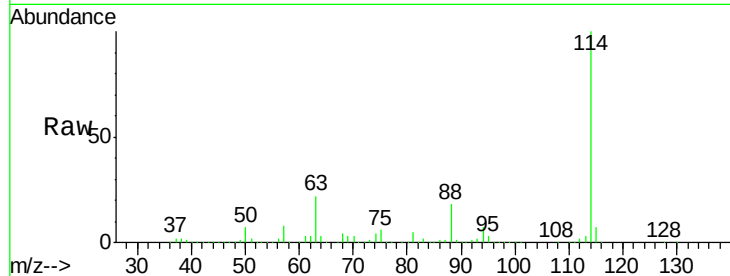
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. -0.00 min  
 Lab File: VL035952.D  
 Acq: 16 Nov 2020 20:33

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SR-3DL

Tot Ion:114 Resp: 4341361  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 16.1 24.1  
 88 17.5 13.7 20.5

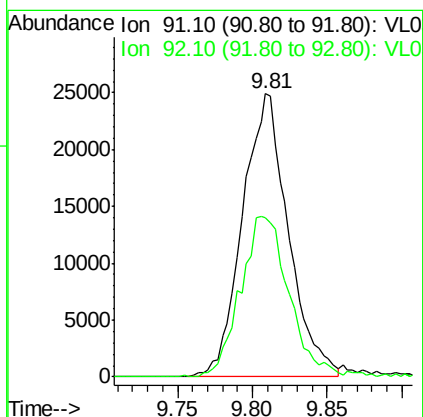
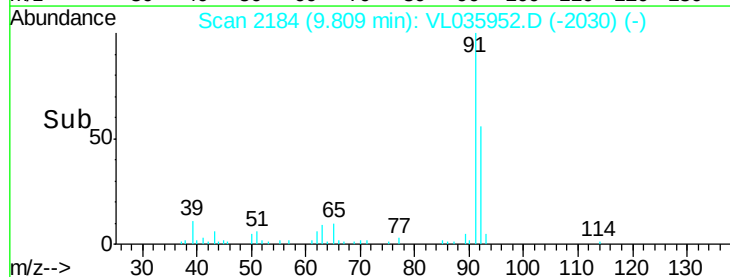
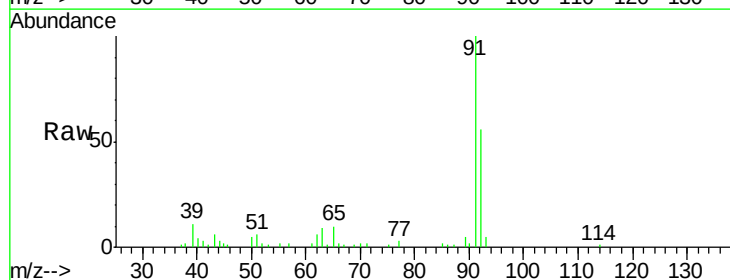
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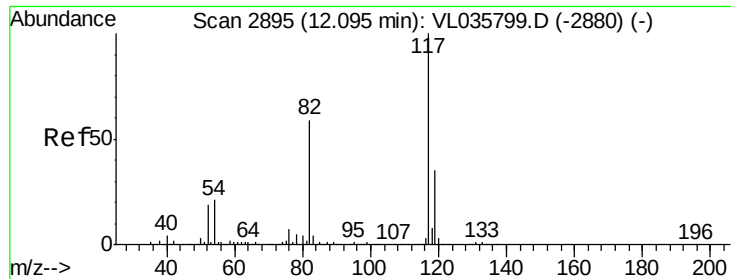
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#53  
 Toluene  
 Concen: 0.136 ppbv  
 RT: 9.81 min Scan# 2184  
 Delta R.T. -0.00 min  
 Lab File: VL035952.D  
 Acq: 16 Nov 2020 20:33

Tgt Ion: 91 Resp: 53126  
 Ion Ratio Lower Upper  
 91 100  
 92 60.7 49.8 74.6





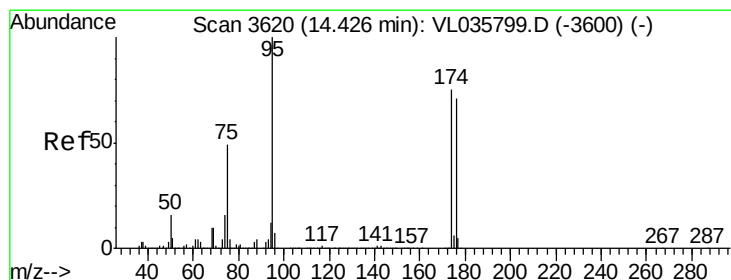
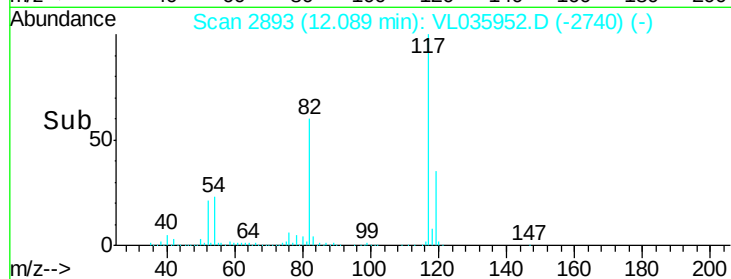
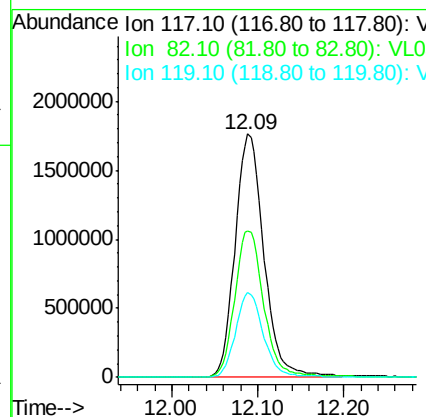
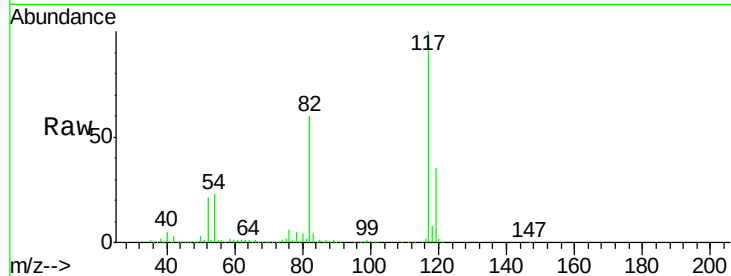
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min Scan# 2893  
Delta R.T. -0.01 min  
Lab File: VL035952.D  
Acq: 16 Nov 2020 20:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SR-3DL

Tot Ion:117 Resp: 4113145  
Ion Ratio Lower Upper  
117 100  
82 61.3 50.6 76.0  
119 34.2 52.6 78.8#

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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.111 ppbv  
RT: 14.42 min Scan# 3618  
Delta R.T. -0.01 min  
Lab File: VL035952.D  
Acq: 16 Nov 2020 20:33

Tgt Ion: 95 Resp: 2954691  
Ion Ratio Lower Upper  
95 100  
174 74.2 59.8 89.6  
175 5.3 4.3 6.5

