

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\  
 Data File : VL034957.D  
 Acq On : 7 May 2020 6:05  
 Operator : SY/AP  
 Sample : L2507-03DK 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: May 07 08:13:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed May 06 14:49:39 2020  
 QLast Update : Wed May 06 14:49:39 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1109620  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2537217  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2383895  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1968988  | 10.20    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.00% |

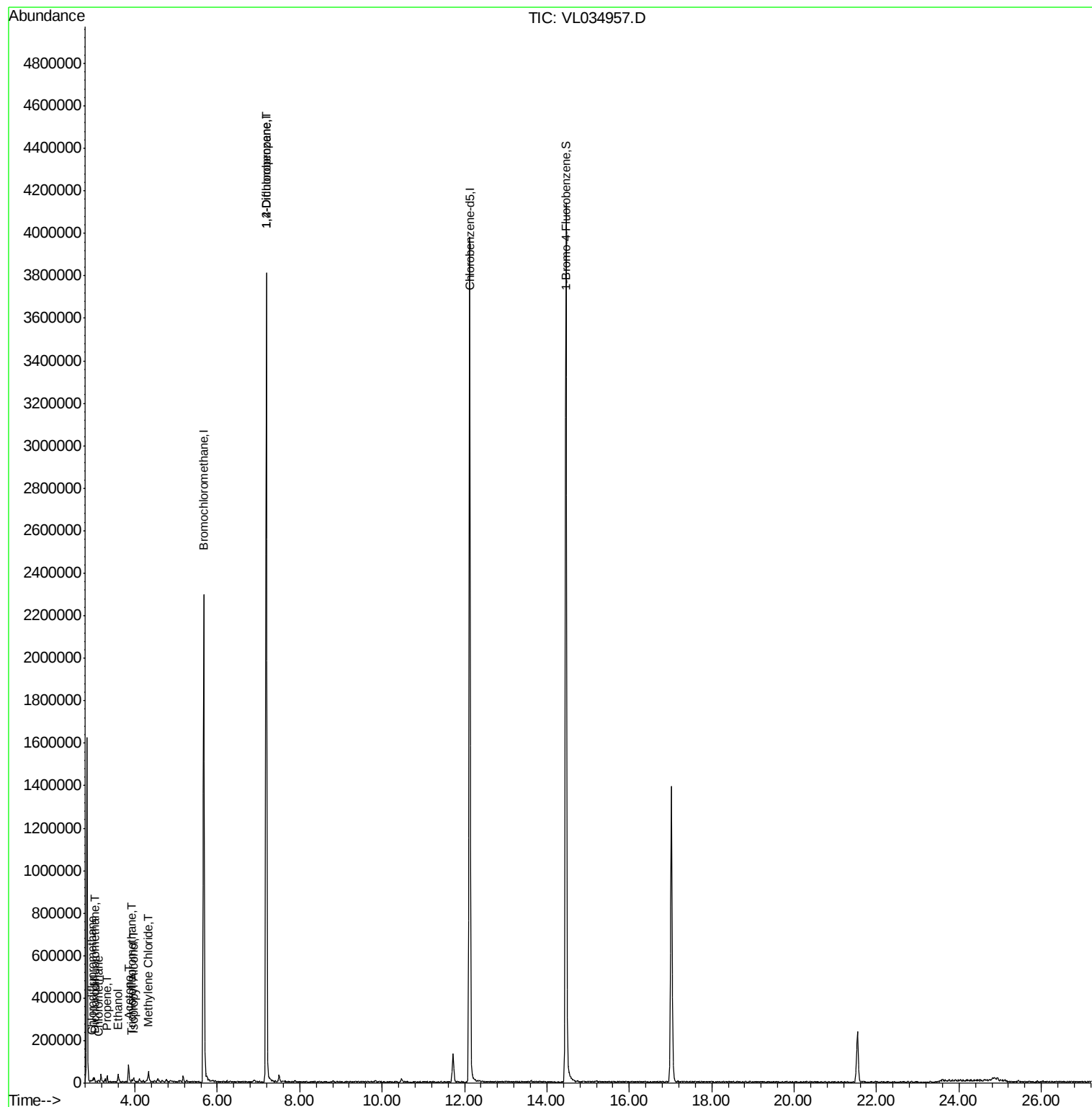
| Target Compounds           | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.01 | 85   | 3933     | 0.025 | ppbv   | 99     |
| 3) Chlorodifluoromethane   | 2.96 | 51   | 4662     | 0.037 | ppbv # | 83     |
| 4) Chloromethane           | 3.11 | 50   | 2900     | 0.040 | ppbv # | 62     |
| 9) Propene                 | 3.32 | 41   | 3934     | 0.072 | ppbv   | 90     |
| 11) Trichlorofluoromethane | 3.93 | 101  | 4175     | 0.026 | ppbv # | 71     |
| 13) Ethanol                | 3.59 | 45   | 28502    | 1.571 | ppbv   | 80     |
| 15) Acetone                | 3.84 | 43   | 65249    | 0.445 | ppbv   | 94     |
| 19) Isopropyl Alcohol      | 3.96 | 45   | 6776     | 0.069 | ppbv # | 94     |
| 20) Methylene Chloride     | 4.33 | 84   | 12760    | 0.263 | ppbv # | 85     |
| 39) 1,2-Dichloropropane    | 7.19 | 63   | 696451   | 8.305 | ppbv # | 25     |

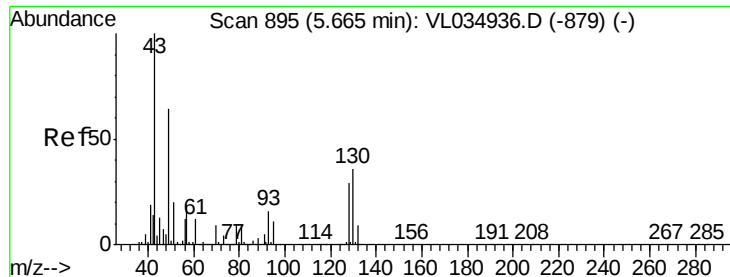
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_L  
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Quant Time: May 07 08:13:52 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed May 06 14:49:39 2020  
QLast Update : Wed May 06 14:49:39 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

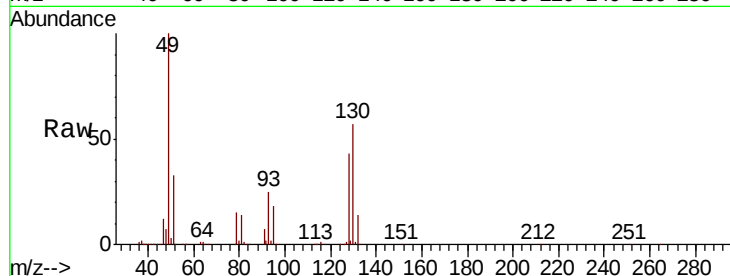
Lab File: VL034957.D

Acq: 7 May 2020 6:05

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 49 Resp: 1109620

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 44.8  | 22.1  | 66.5  |
| 130 | 58.2  | 29.1  | 87.3  |



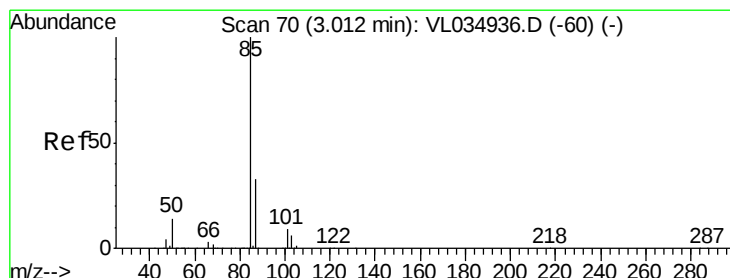
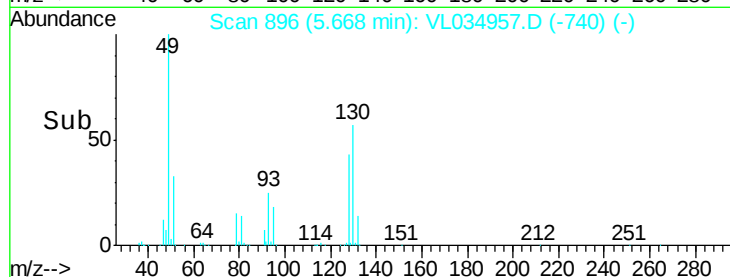
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 0.025 ppbv

RT: 3.01 min Scan# 69

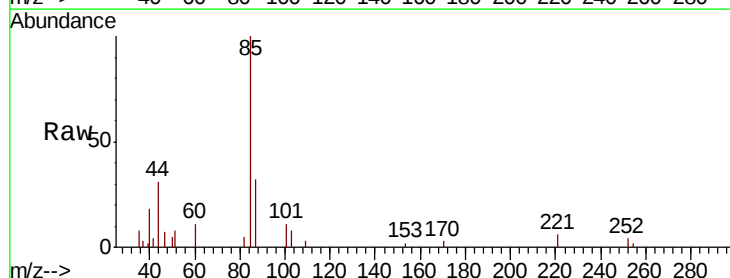
Delta R.T. -0.00 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

Tgt Ion: 85 Resp: 3933

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 33.5  | 26.2  | 39.2  |

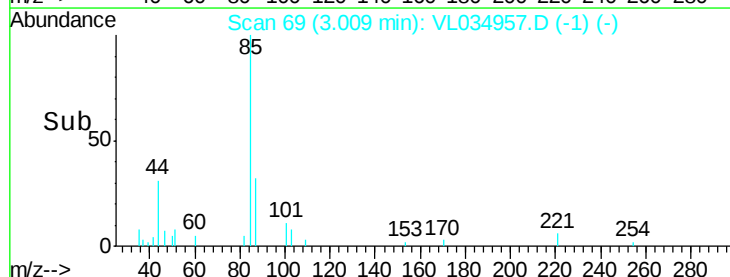


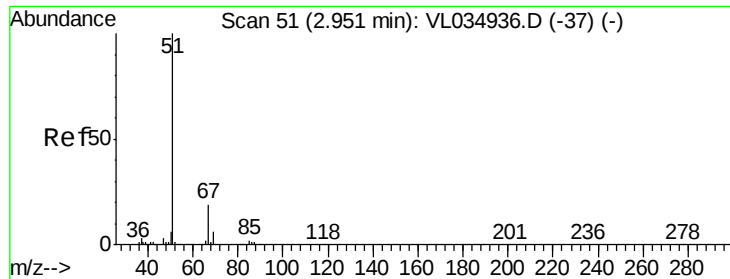
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->

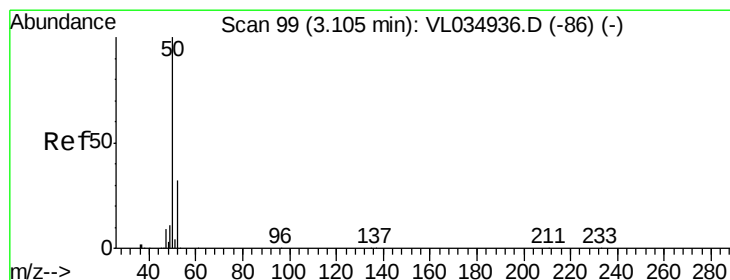
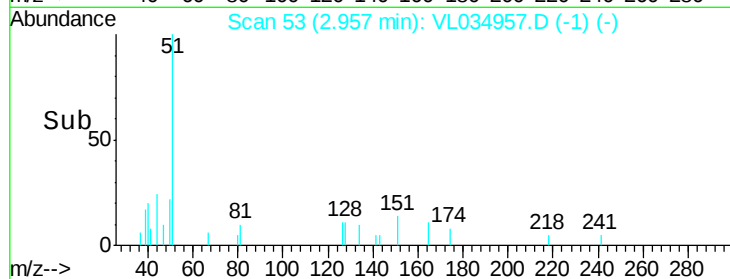
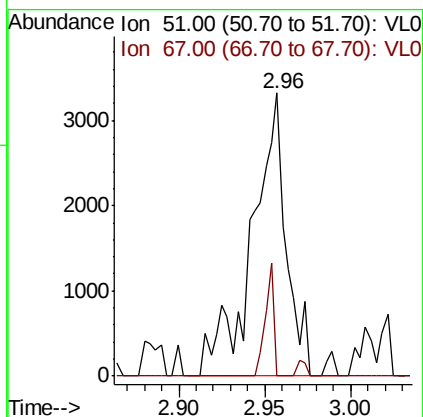
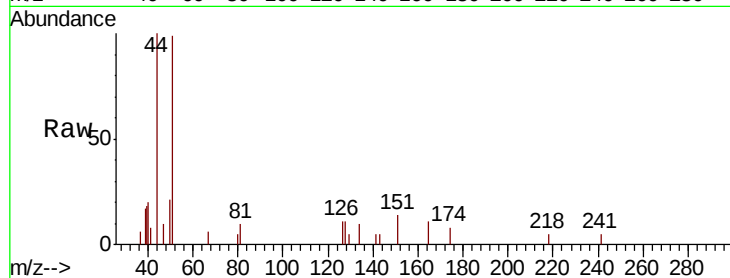




#3  
Chlorodifluoromethane  
Concen: 0.037 ppbv  
RT: 2.96 min Scan# 53  
Delta R.T. 0.01 min  
Lab File: VL034957.D  
Acq: 7 May 2020 6:05

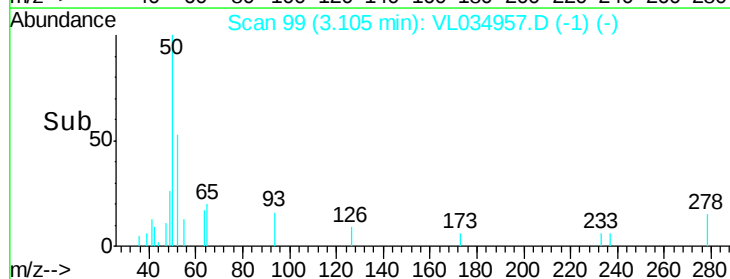
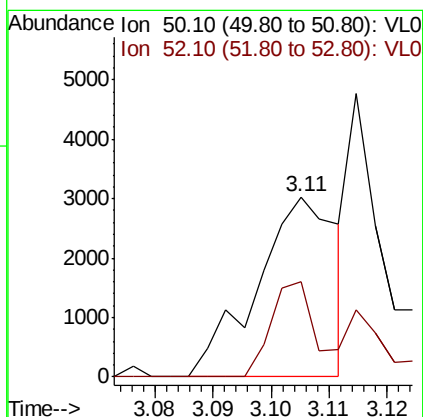
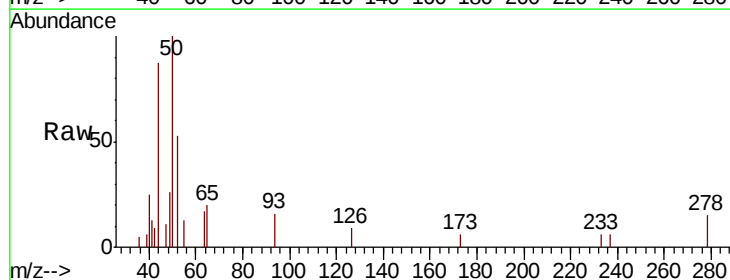
Instrument :  
MSVOA\_L  
ClientSampleId :

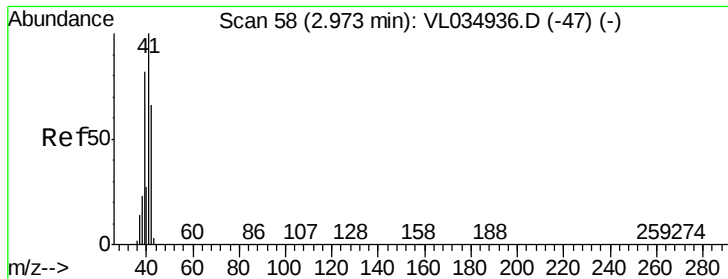
Tot Ion: 51 Resp: 4662  
Ion Ratio Lower Upper  
51 100  
67 11.2 15.0 22.6#



#4  
Chloromethane  
Concen: 0.040 ppbv  
RT: 3.11 min Scan# 99  
Delta R.T. -0.00 min  
Lab File: VL034957.D  
Acq: 7 May 2020 6:05

Tgt Ion: 50 Resp: 2900  
Ion Ratio Lower Upper  
50 100  
52 52.7 25.4 38.2#





#9

Propene

Concen: 0.072 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.35 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

Instrument :

MSVOA\_L

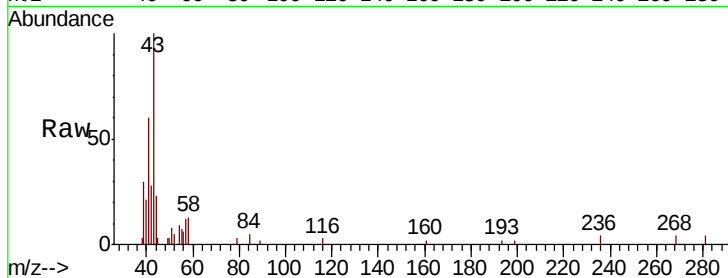
ClientSampleId :

Tot Ion: 41 Resp: 3934

Ion Ratio Lower Upper

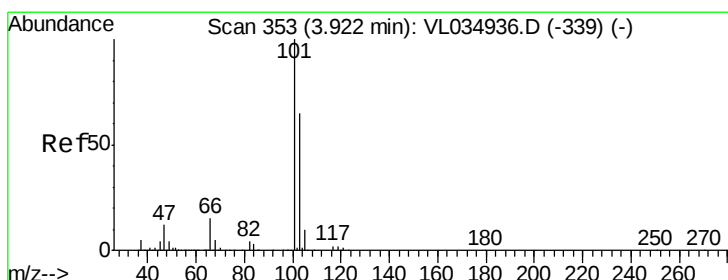
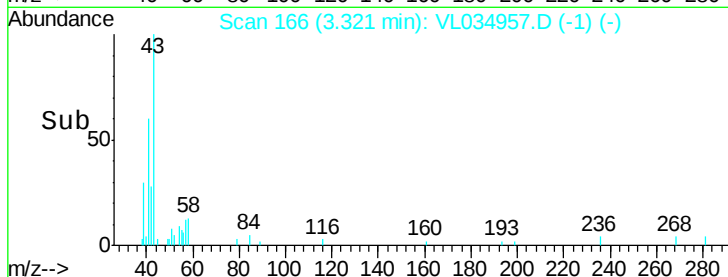
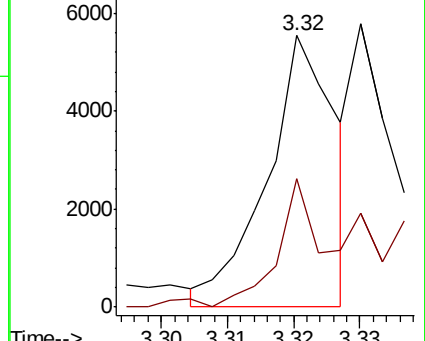
41 100

42 59.8 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.026 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034957.D

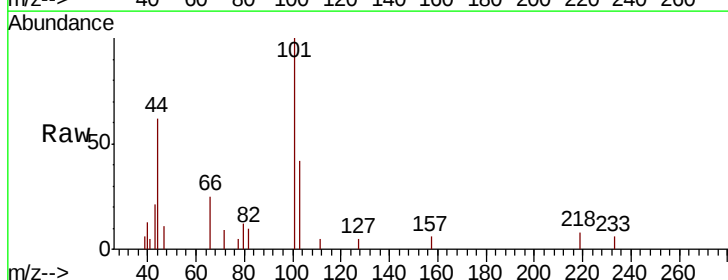
Acq: 7 May 2020 6:05

Tgt Ion: 101 Resp: 4175

Ion Ratio Lower Upper

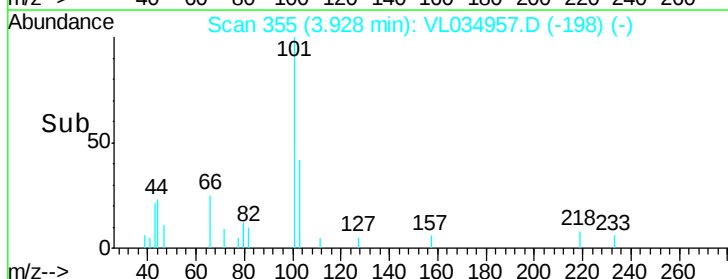
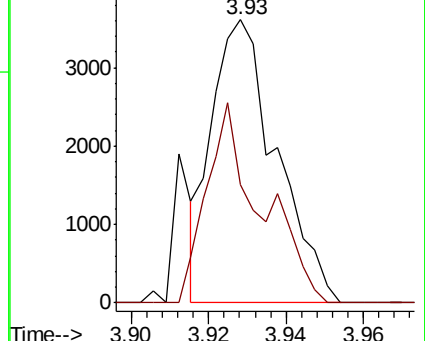
101 100

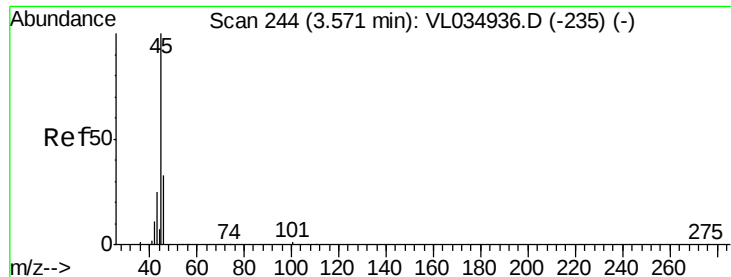
103 42.0 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

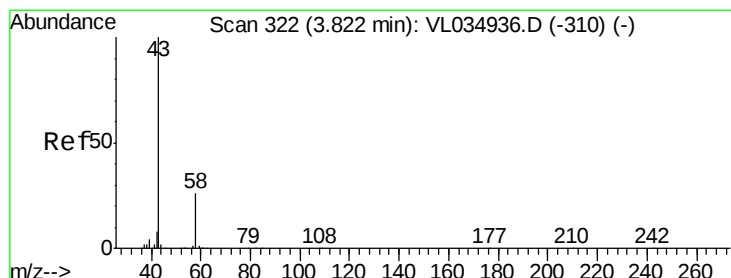
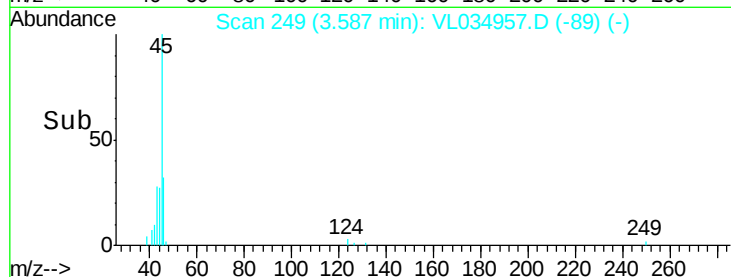
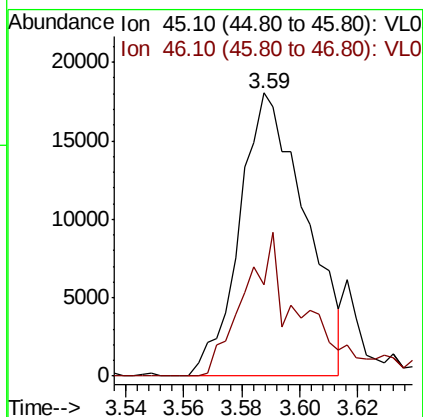
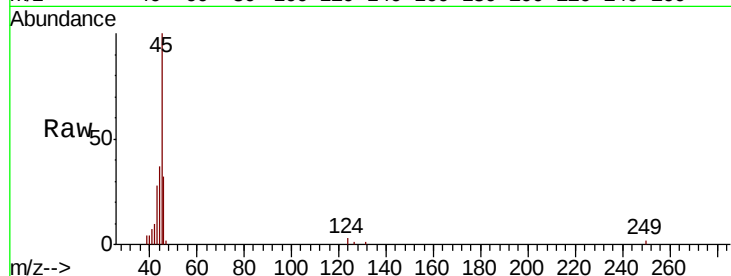




#13  
Ethanol  
Concen: 1.571 ppbv  
RT: 3.59 min Scan# 249  
Delta R.T. 0.02 min  
Lab File: VL034957.D  
Acq: 7 May 2020 6:05

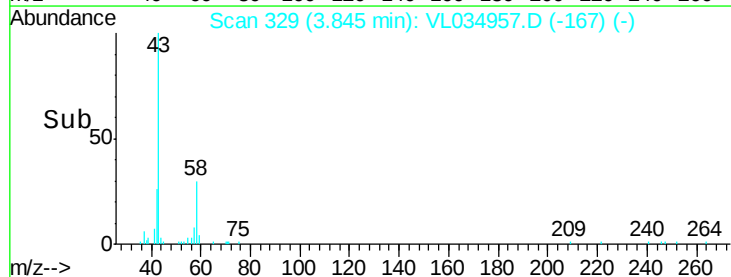
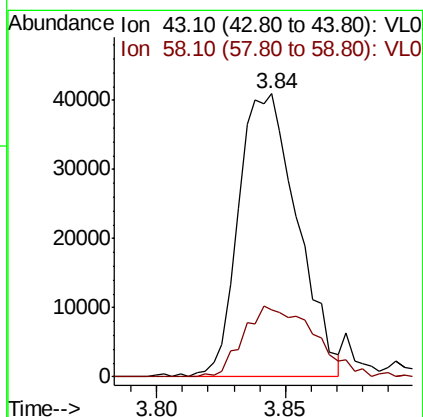
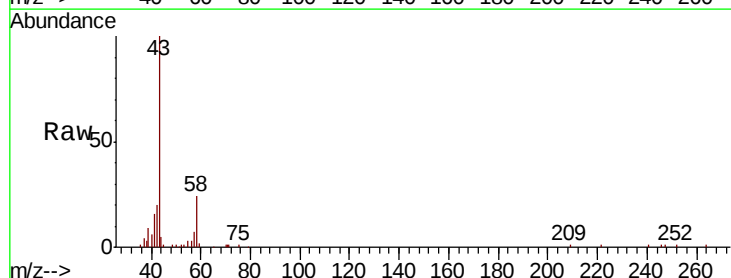
Instrument :  
MSVOA\_L  
ClientSampleId :

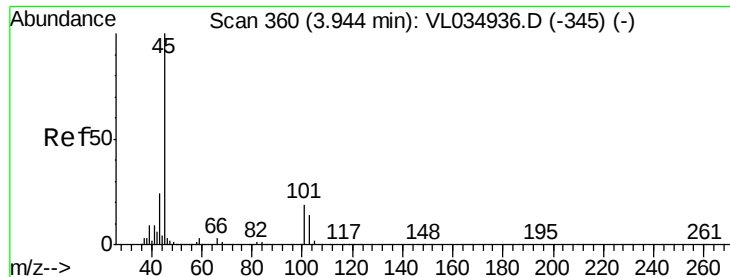
Tot Ion: 45 Resp: 28502  
Ion Ratio Lower Upper  
45 100  
46 47.3 14.3 57.3



#15  
Acetone  
Concen: 0.445 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. 0.02 min  
Lab File: VL034957.D  
Acq: 7 May 2020 6:05

Tgt Ion: 43 Resp: 65249  
Ion Ratio Lower Upper  
43 100  
58 30.4 21.7 32.5



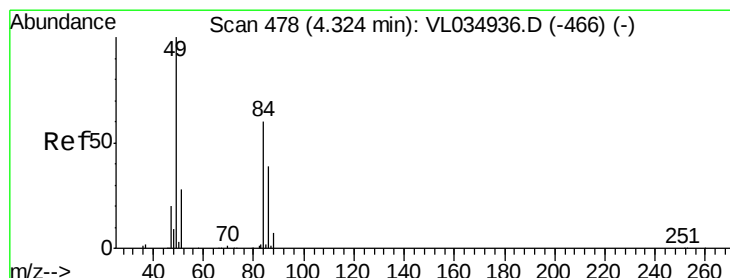
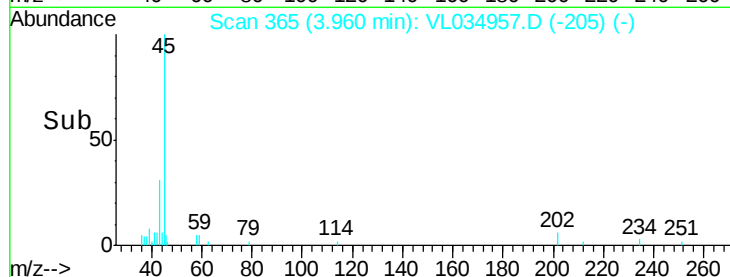
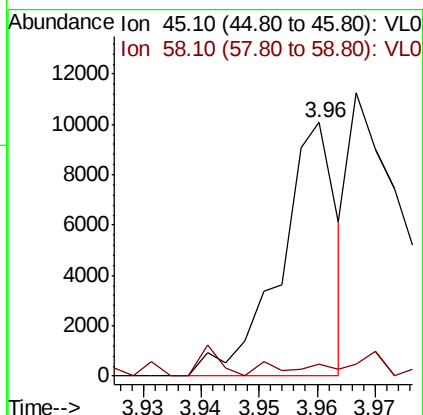
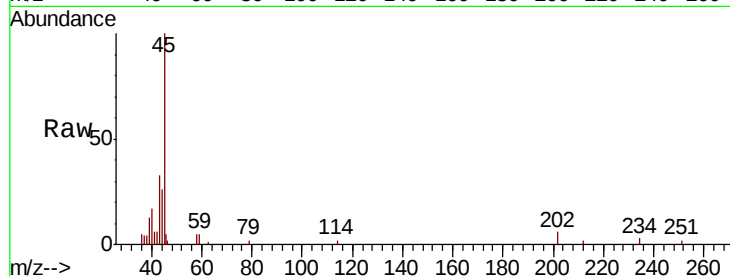


#19

Isopropyl Alcohol  
 Concen: 0.069 ppbv  
 RT: 3.96 min Scan# 365  
 Delta R.T. 0.02 min  
 Lab File: VL034957.D  
 Acq: 7 May 2020 6:05

Instrument :  
 MSVOA\_L  
 ClientSampleId :

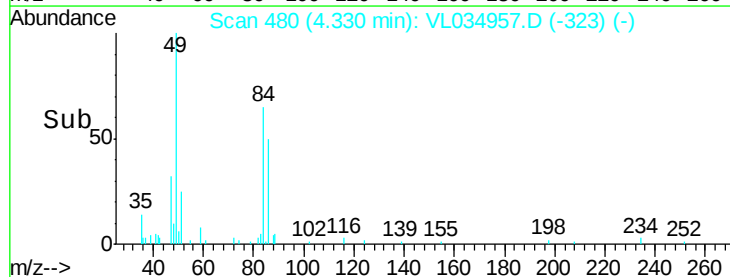
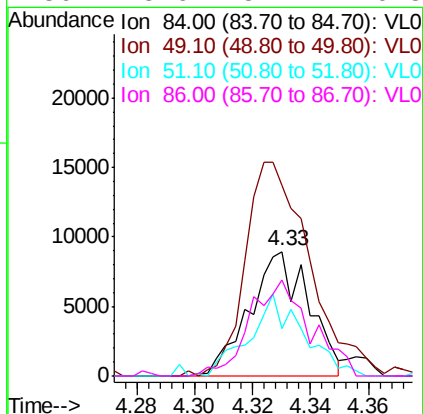
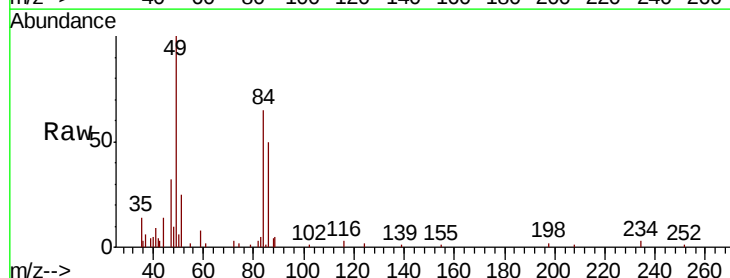
Tot Ion: 45 Resp: 6776  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 1.7 2.5#

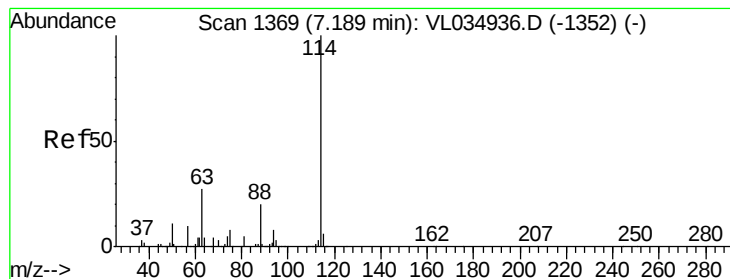


#20

Methylene Chloride  
 Concen: 0.263 ppbv  
 RT: 4.33 min Scan# 480  
 Delta R.T. 0.01 min  
 Lab File: VL034957.D  
 Acq: 7 May 2020 6:05

Tgt Ion: 84 Resp: 12760  
 Ion Ratio Lower Upper  
 84 100  
 49 146.1 132.5 198.7  
 51 37.3 38.4 57.6#  
 86 75.6 51.2 76.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

Instrument :

MSVOA\_L

ClientSampleId :

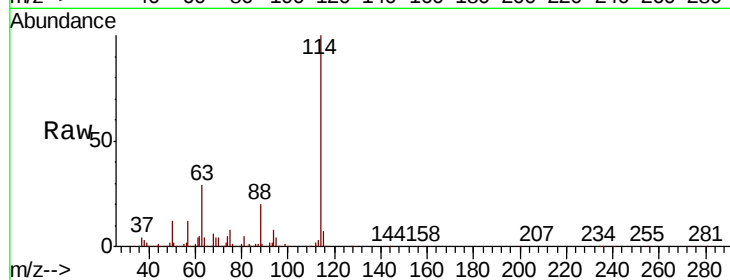
Tot Ion:114 Resp: 2537217

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 27.9  | 22.2  | 33.4  |
| 88  | 19.5  | 15.5  | 23.3  |

114 100

63 27.9 22.2 33.4

88 19.5 15.5 23.3



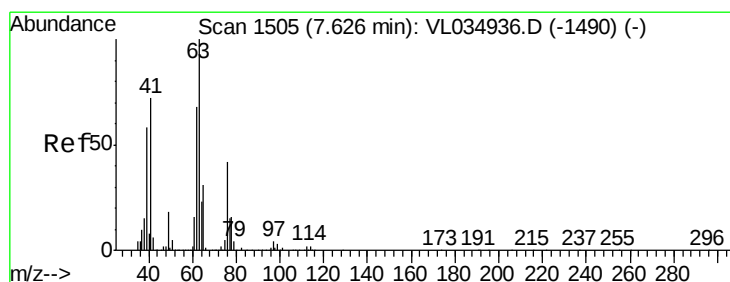
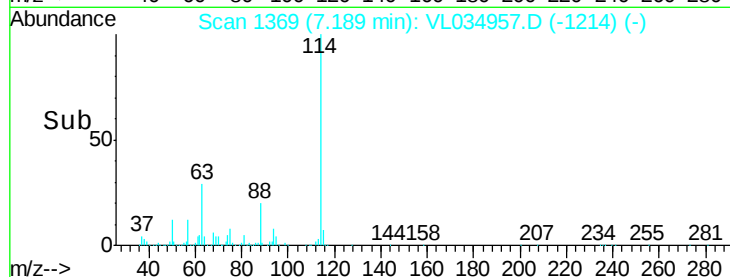
Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

7.19

Time-->



#39

1,2-Dichloropropane

Concen: 8.305 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

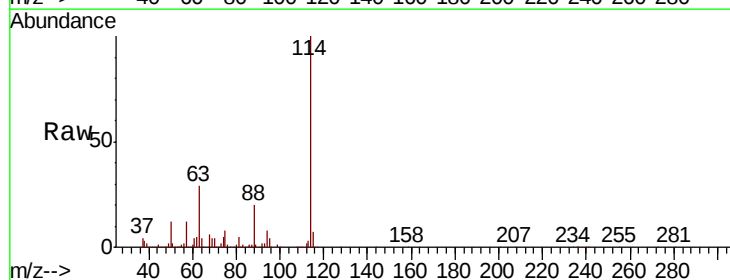
Tgt Ion: 63 Resp: 696451

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 0.1   | 57.8  | 86.8# |
| 62  | 17.9  | 54.2  | 81.2# |

63 100

41 0.1 57.8 86.8#

62 17.9 54.2 81.2#



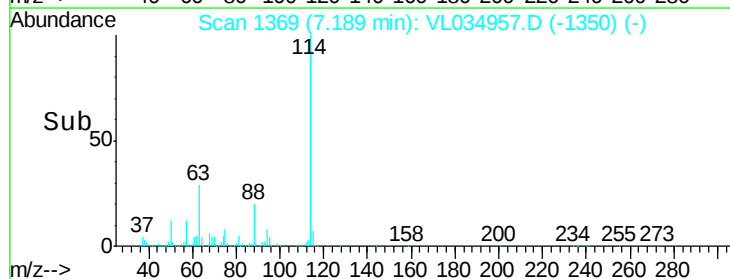
Abundance Ion 63.10 (62.80 to 63.80): VL0

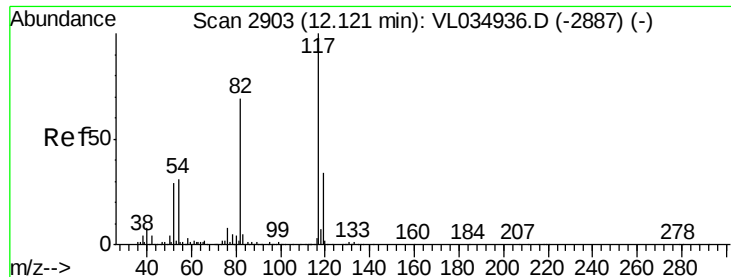
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

7.19

Time-->





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

Instrument :

MSVOA\_L

ClientSampleId :

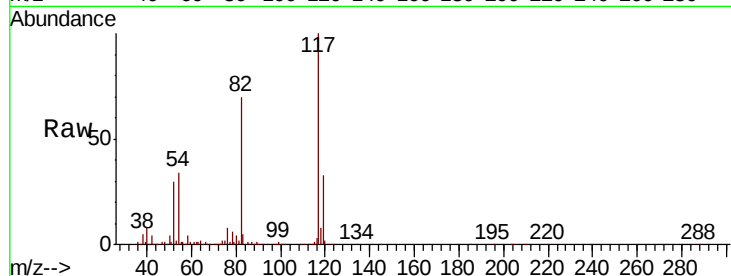
Tot Ion:117 Resp: 2383895

Ion Ratio Lower Upper

117 100

82 70.2 53.1 79.7

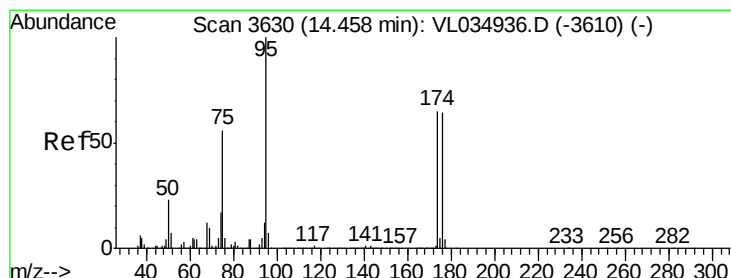
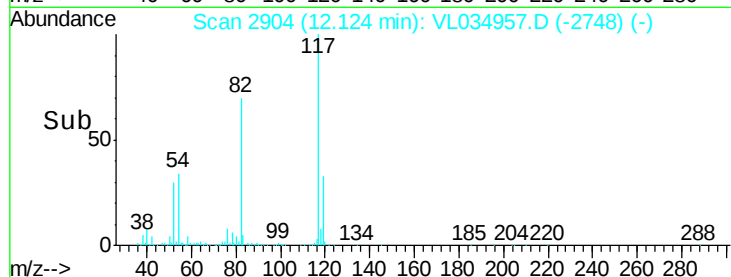
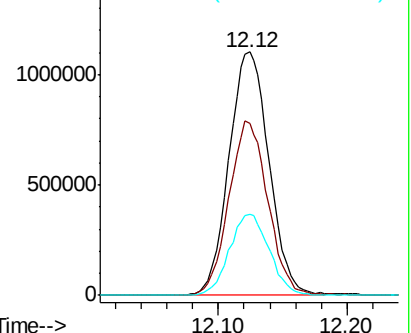
119 33.2 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.204 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL034957.D

Acq: 7 May 2020 6:05

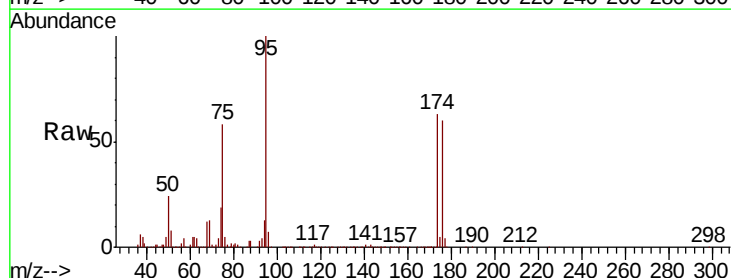
Tgt Ion: 95 Resp: 1968988

Ion Ratio Lower Upper

95 100

174 64.6 51.5 77.3

175 4.7 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

