

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\  
 Data File : VL035549.D  
 Acq On : 4 Sep 2020 3:04  
 Operator : SY/AP  
 Sample : L3898-08DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-7DL

Manual Integrations  
 APPROVED

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Quant Time: Sep 09 15:31:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug 27 2020  
 QLast Update : Thu Aug 27 06:46:28 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 997750   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 4170076  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 4180329  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 3039003  | 10.24    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.40% |

| Target Compounds           | R.T. | QIon | Response | Conc  | Units | Ovalue |
|----------------------------|------|------|----------|-------|-------|--------|
| 11) Trichlorofluoromethane | 3.96 | 101  | 90015    | 0.357 | ppbv  | 99     |
| 13) Ethanol                | 3.62 | 45   | 55870    | 5.297 | ppbv  | 100    |
| 15) Acetone                | 3.86 | 43   | 524633   | 4.768 | ppbv  | 99     |
| 19) Isopropyl Alcohol      | 3.99 | 45   | 22820m   | 0.348 | ppbv  |        |
| 27) Carbon Disulfide       | 4.57 | 76   | 107926   | 0.683 | ppbv  | 98     |

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

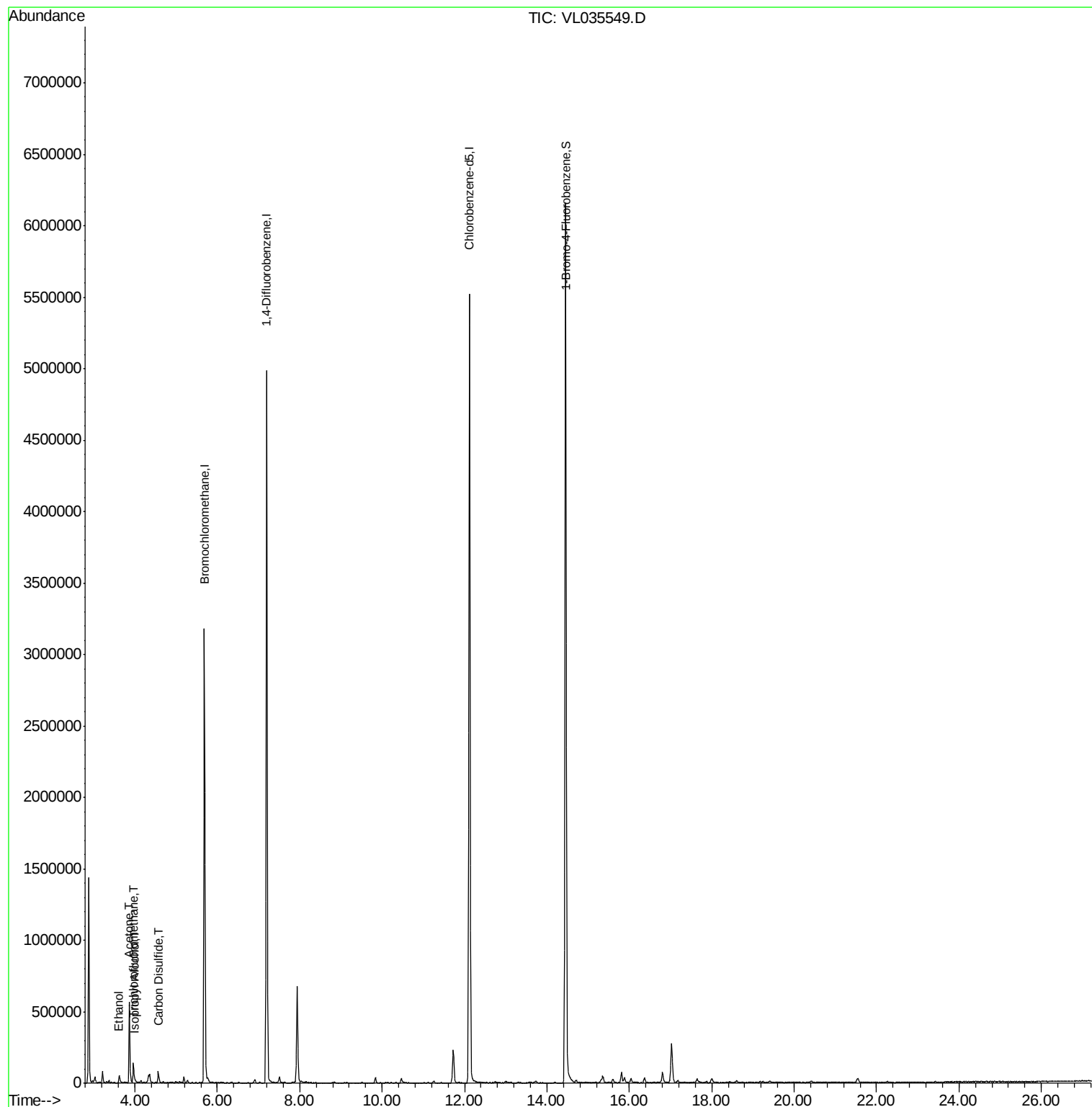
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Data File : VL035549.D  
Acq On : 4 Sep 2020 3:04  
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Instrument :  
MSVOA\_L  
ClientSampled :  
SS-7DL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Aug  
QLast Update : Thu Aug 27 06:46:28 2020  
Response via : Initial Calibration





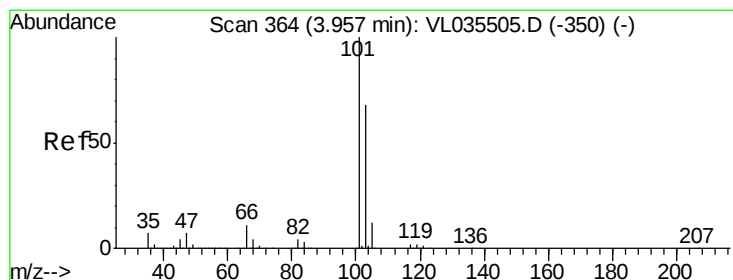
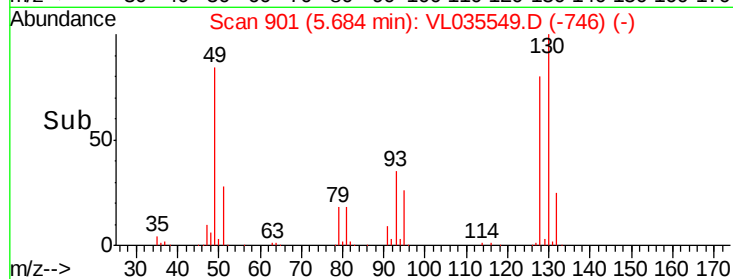
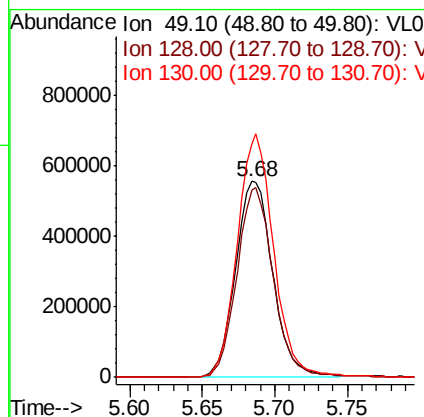
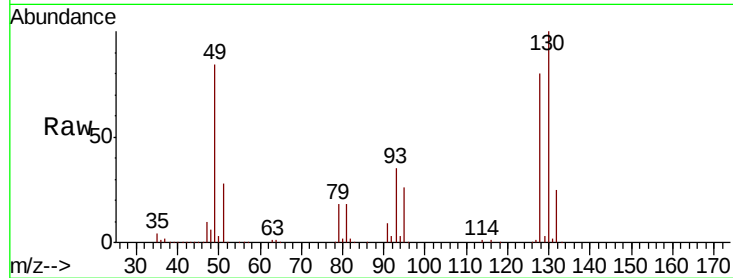
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 94.9  | 50.0  | 150.1 |
| 130     | 121.9 | 64.4  | 193.2 |

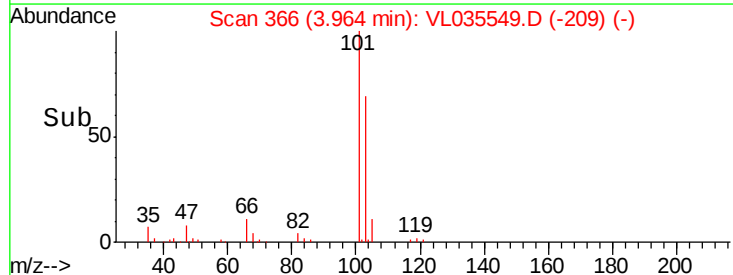
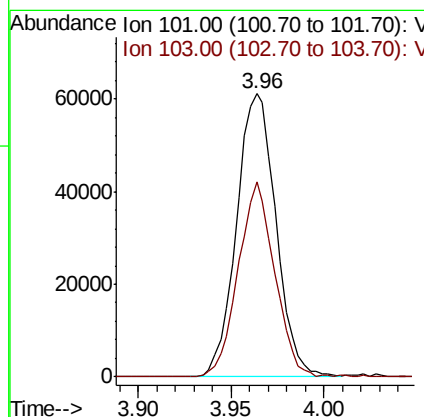
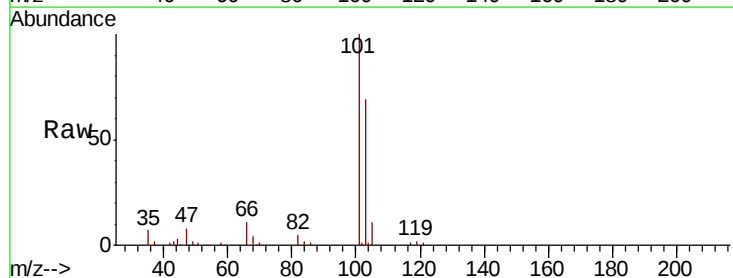
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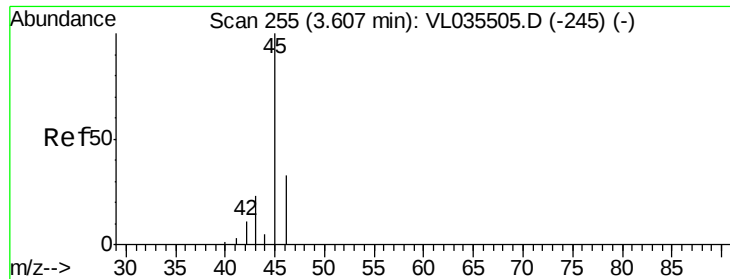
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#11  
Trichlorofluoromethane  
Concen: 0.357 ppbv  
RT: 3.96 min Scan# 366  
Delta R.T. 0.01 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 68.9  | 54.5  | 81.7  |





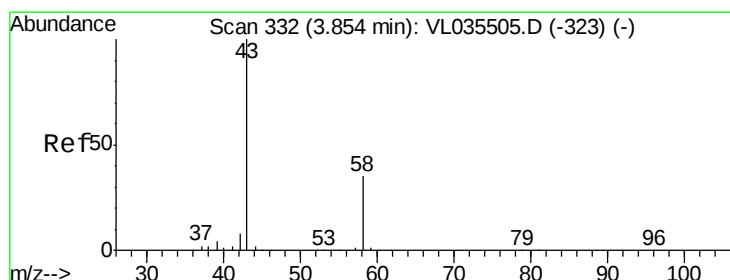
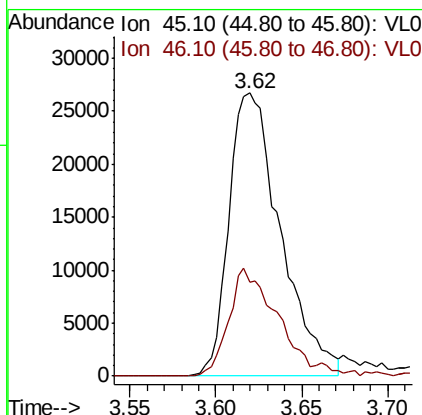
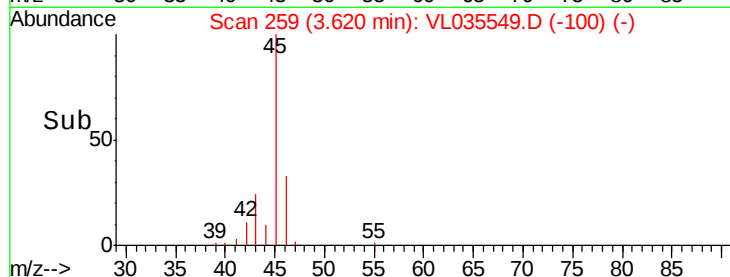
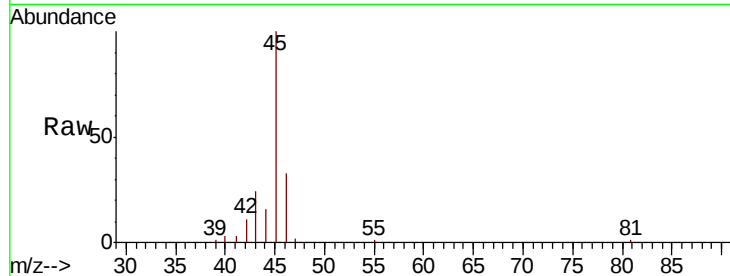
#13  
Ethanol  
Concen: 5.297 ppbv  
RT: 3.62 min Scan# 259  
Delta R.T. 0.01 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-7DL

Tot Ion: 45 Resp: 55870  
Ion Ratio Lower Upper  
45 100  
46 37.6 15.2 60.6

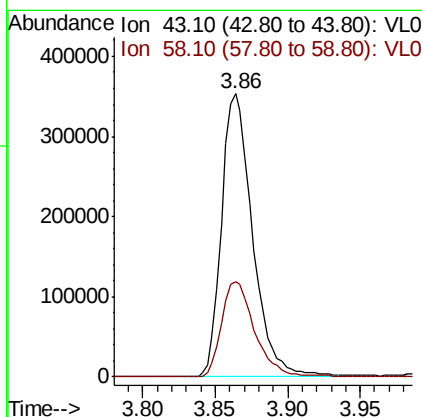
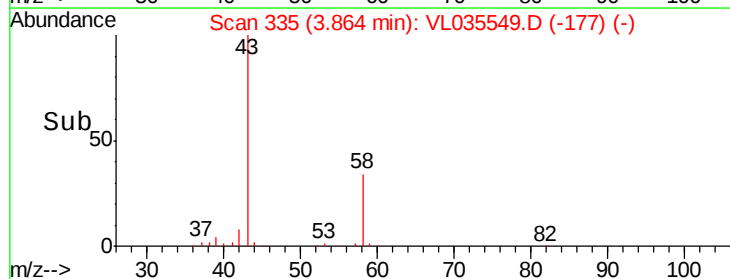
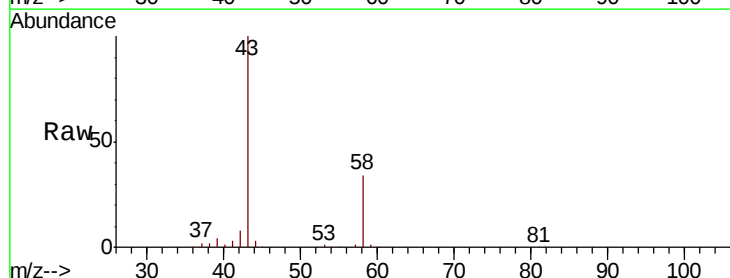
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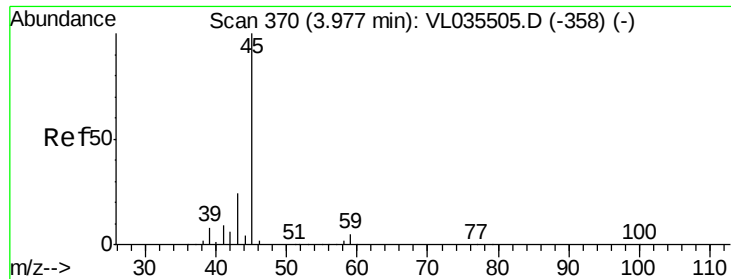
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#15  
Acetone  
Concen: 4.768 ppbv  
RT: 3.86 min Scan# 335  
Delta R.T. 0.01 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

Tgt Ion: 43 Resp: 524633  
Ion Ratio Lower Upper  
43 100  
58 36.2 28.4 42.6





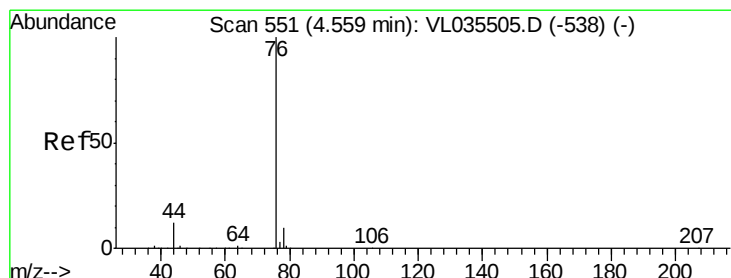
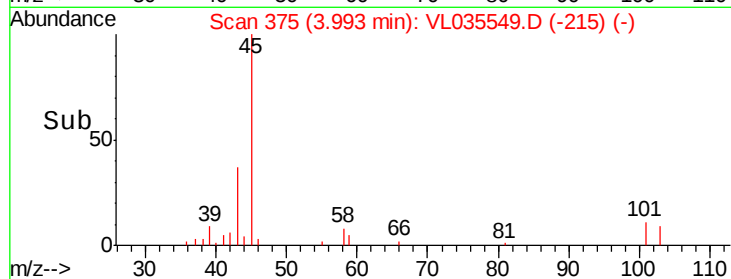
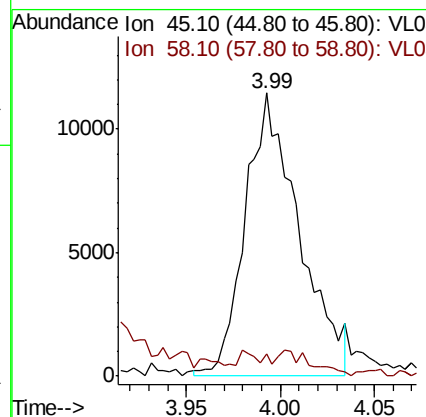
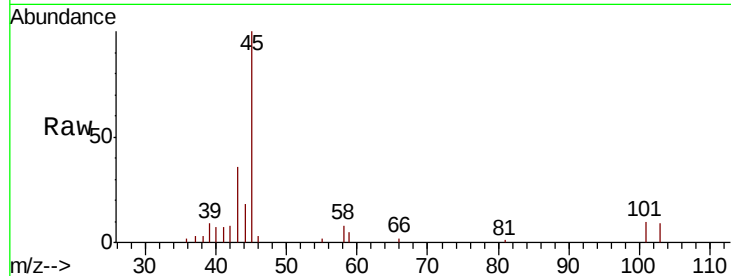
#19  
Isopropyl Alcohol  
Concen: 0.348 ppbv m  
RT: 3.99 min Scan# 375  
Delta R.T. 0.02 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-7DL

Tot Ion: 45 Resp: 22820  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.0 3.0#

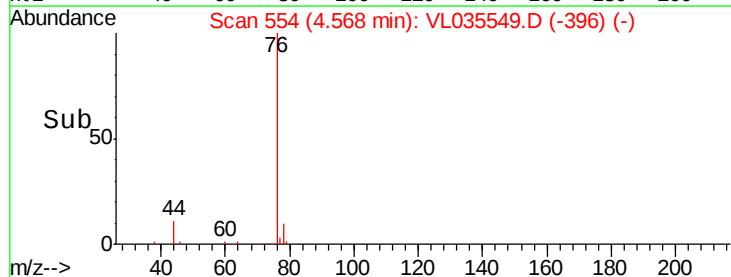
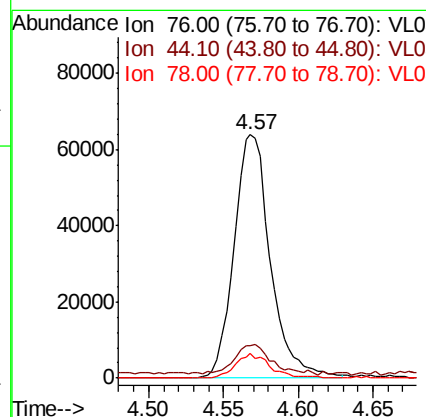
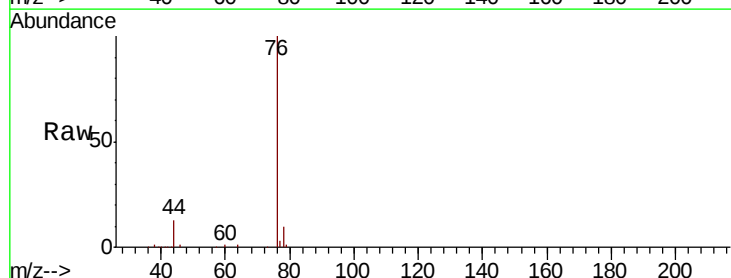
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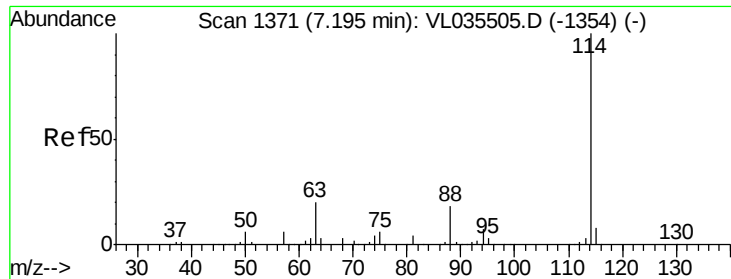
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#27  
Carbon Disulfide  
Concen: 0.683 ppbv  
RT: 4.57 min Scan# 554  
Delta R.T. 0.01 min  
Lab File: VL035549.D  
Acq: 4 Sep 2020 3:04

Tgt Ion: 76 Resp: 107926  
Ion Ratio Lower Upper  
76 100  
44 12.8 9.3 13.9  
78 9.8 7.8 11.6





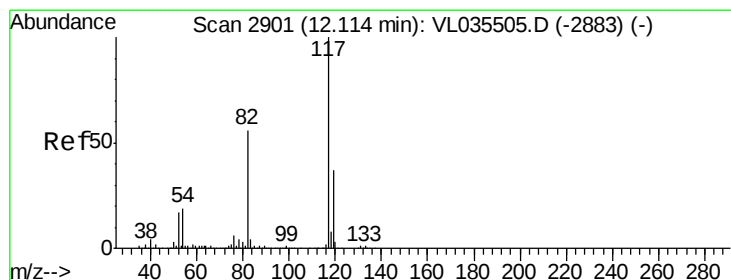
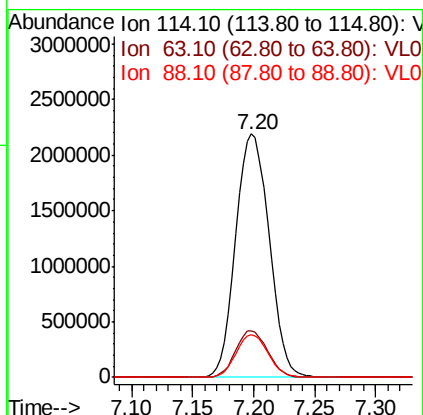
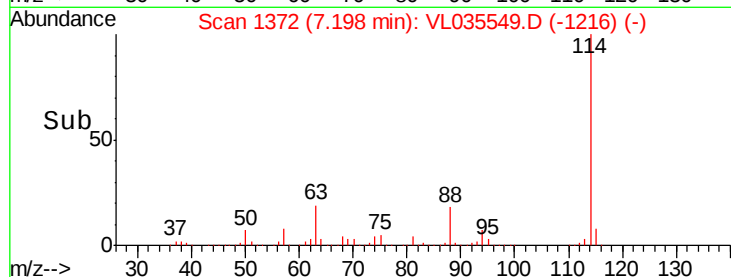
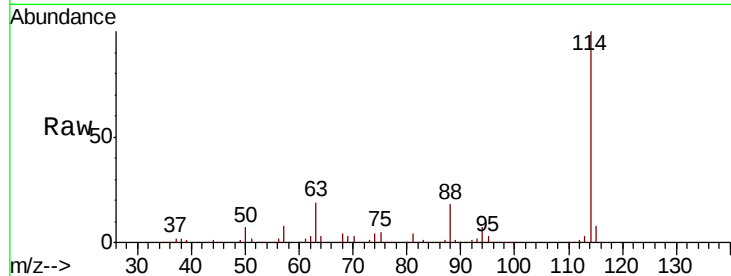
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.20 min Scan# 1372  
 Delta R.T. 0.00 min  
 Lab File: VL035549.D  
 Acq: 4 Sep 2020 3:04

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 SS-7DL

Tot Ion:114 Resp: 4170076  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 14.7 22.1  
 88 16.8 13.4 20.2

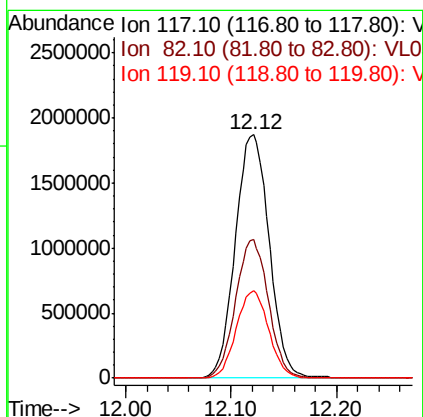
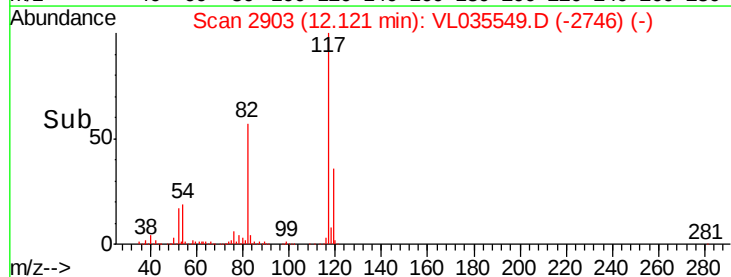
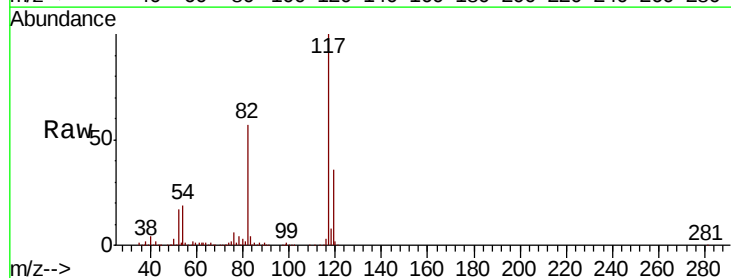
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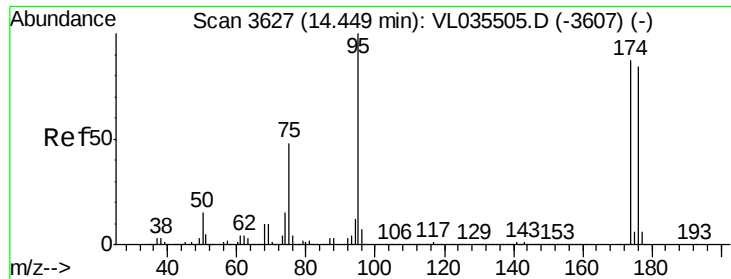
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.12 min Scan# 2903  
 Delta R.T. 0.01 min  
 Lab File: VL035549.D  
 Acq: 4 Sep 2020 3:04

Tgt Ion:117 Resp: 4180329  
 Ion Ratio Lower Upper  
 117 100  
 82 55.4 41.6 62.4  
 119 34.4 29.3 43.9





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.237 ppbv  
 RT: 14.45 min Scan# 3628  
 Delta R.T. 0.00 min  
 Lab File: VL035549.D  
 Acq: 4 Sep 2020 3:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 85.4  | 69.6  | 104.4 |
| 175     | 6.1   | 5.1   | 7.7   |

Manual Integrations  
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