

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
 Data File : VL040046.D  
 Acq On : 20 Dec 2022 2:39  
 Operator : SY/MD  
 Sample : N6059-01DL 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL

Quant Time: Dec 20 05:19:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Dec 20 04:50:21 2022  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.166  | 49   | 1008888  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.629  | 114  | 2883295  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.442 | 117  | 2515956  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.754 | 95    | 1900277  | 9.888    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.900% |

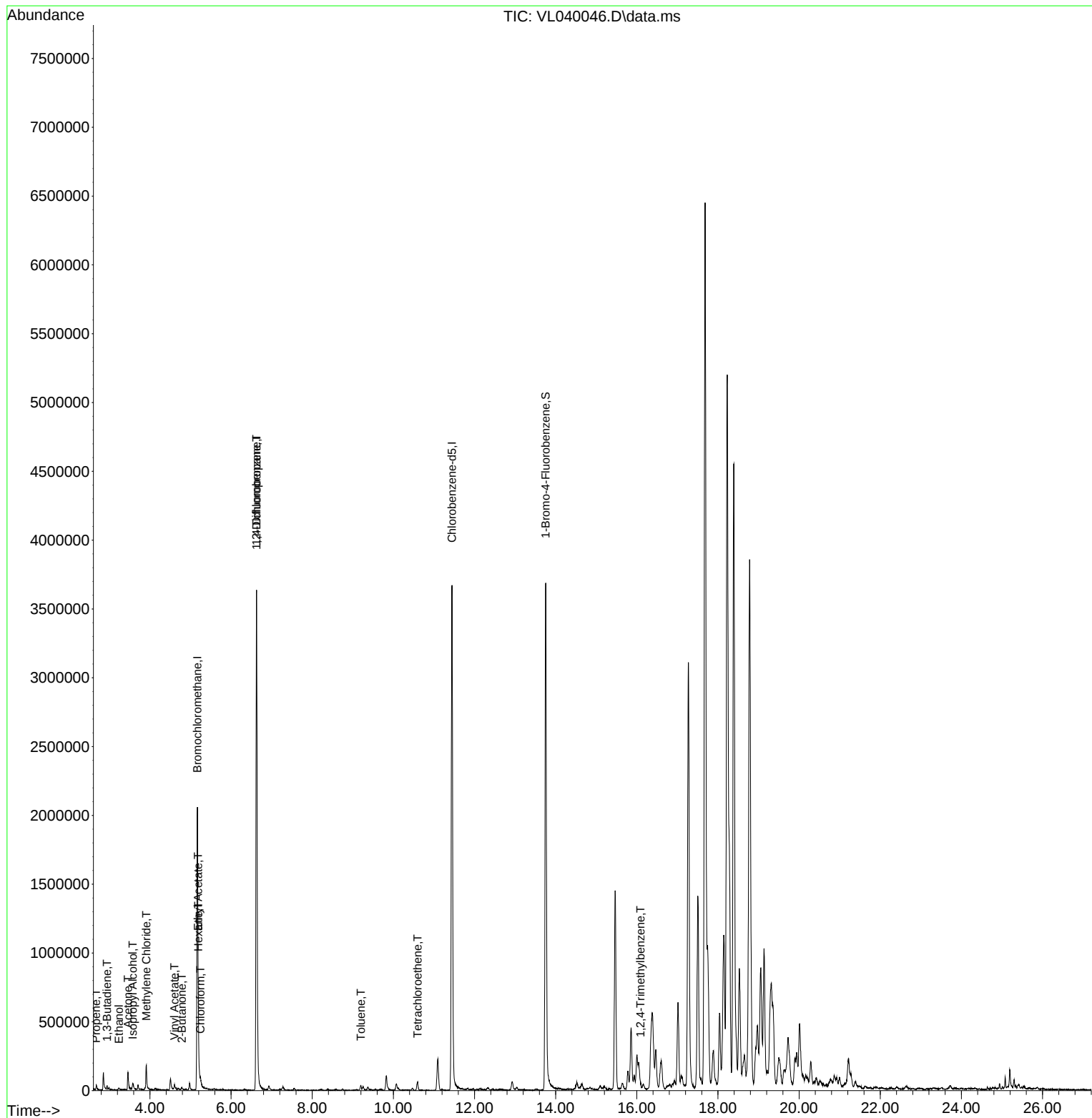
| Target Compounds           |        |     |        |       |        | Qvalue |
|----------------------------|--------|-----|--------|-------|--------|--------|
| 9) Propene                 | 2.671  | 41  | 3563   | 0.056 | ppbv # | 16     |
| 13) Ethanol                | 3.234  | 45  | 8805   | 1.481 | ppbv   | 67     |
| 15) Acetone                | 3.459  | 43  | 122077 | 0.782 | ppbv # | 86     |
| 16) 1,3-Butadiene          | 2.941  | 39  | 7776   | 0.115 | ppbv # | 18     |
| 19) Isopropyl Alcohol      | 3.574  | 45  | 39693  | 0.516 | ppbv # | 90     |
| 20) Methylene Chloride     | 3.912  | 84  | 53233  | 0.802 | ppbv   | 93     |
| 23) Vinyl Acetate          | 4.606  | 43  | 38799  | 0.784 | ppbv # | 92     |
| 25) Ethyl Acetate          | 5.188  | 43  | 76444  | 0.283 | ppbv # | 77     |
| 26) Hexane                 | 5.192  | 57  | 110290 | 0.971 | ppbv # | 35     |
| 29) Chloroform             | 5.246  | 83  | 20758  | 0.120 | ppbv   | 88     |
| 34) 2-Butanone             | 4.787  | 43  | 21607  | 0.138 | ppbv   | 99     |
| 39) 1,2-Dichloropropane    | 6.626  | 63  | 698900 | 7.241 | ppbv # | 23     |
| 52) Tetrachloroethene      | 10.597 | 164 | 7826   | 0.089 | ppbv # | 89     |
| 53) Toluene                | 9.195  | 91  | 16108  | 0.056 | ppbv # | 20     |
| 74) 1,2,4-Trimethylbenzene | 16.088 | 105 | 20179  | 0.061 | ppbv # | 67     |

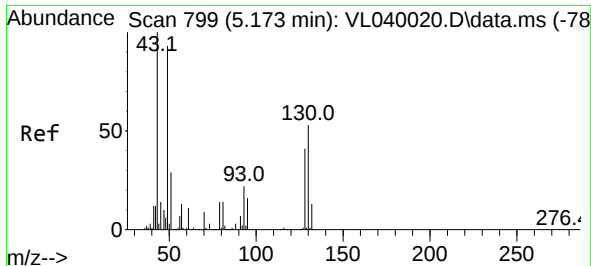
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL121922\  
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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_L  
ClientSampleId :  
SV2DL

Quant Time: Dec 20 05:19:24 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL121922AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Dec 20 04:50:21 2022  
Response via : Initial Calibration

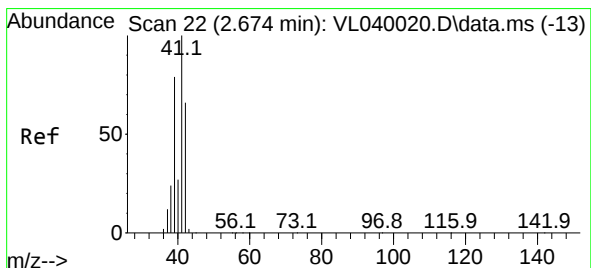
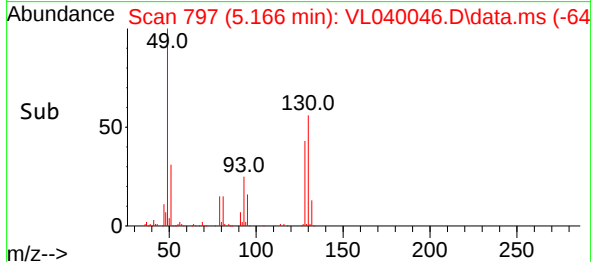
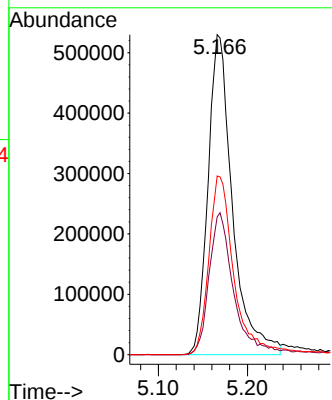
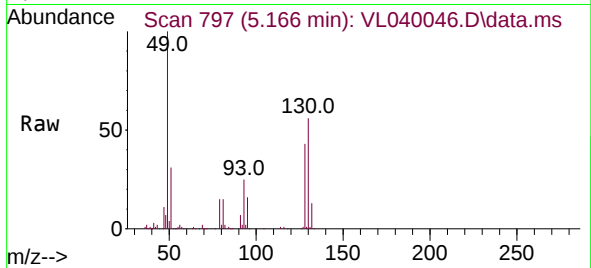




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.166 min Scan# 799  
Delta R.T. -0.007 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

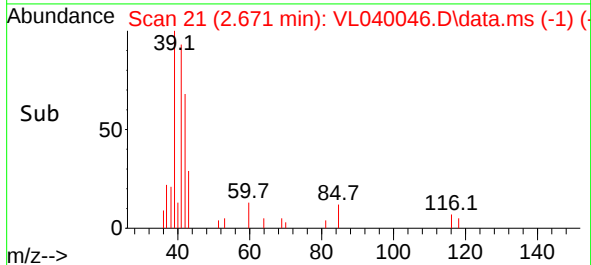
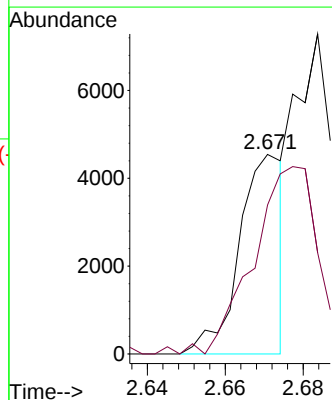
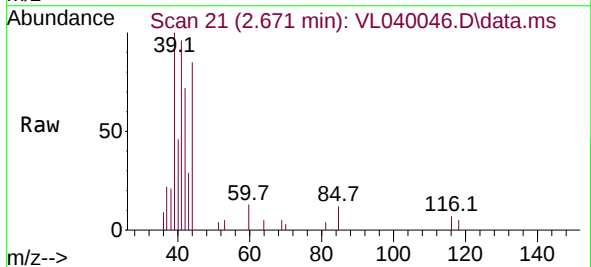
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

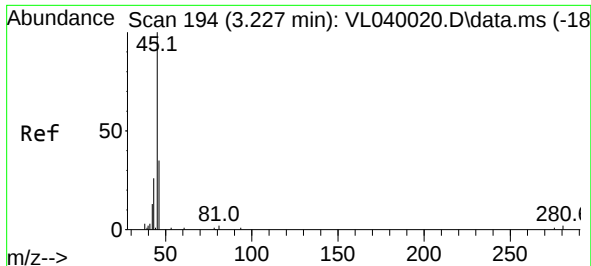
Tgt Ion: 49 Resp: 1008888  
Ion Ratio Lower Upper  
49 100  
128 46.5 22.4 67.3  
130 59.6 28.9 86.8



#9  
Propene  
Concen: 0.056 ppbv  
RT: 2.671 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 41 Resp: 3563  
Ion Ratio Lower Upper  
41 100  
42 0.0 54.8 82.2#

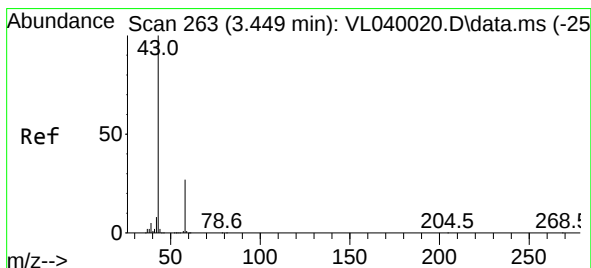
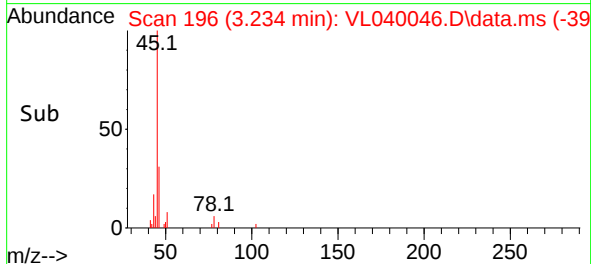
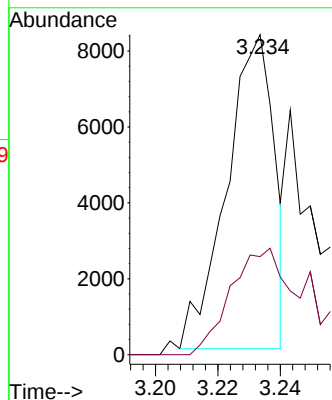
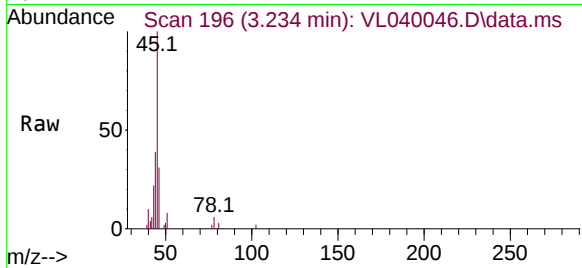




#13  
Ethanol  
Concen: 1.481 ppbv  
RT: 3.234 min Scan# 194  
Delta R.T. 0.006 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

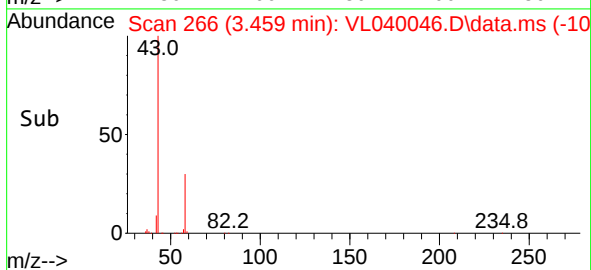
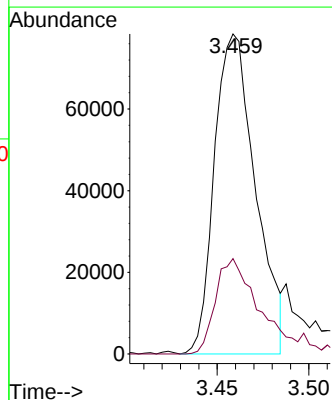
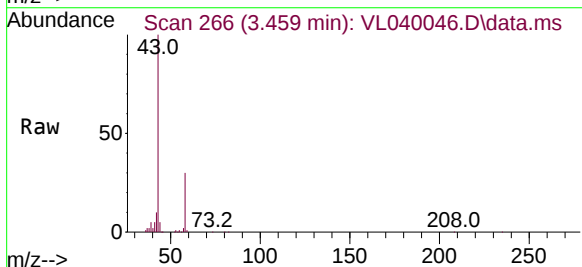
Instrument :  
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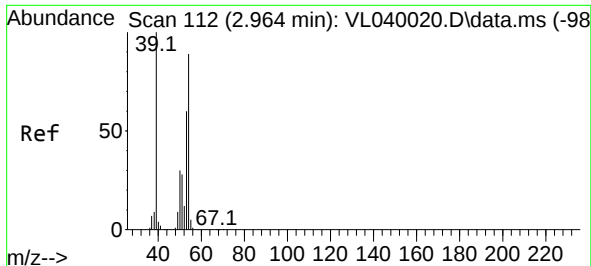
Tgt Ion: 45 Resp: 8805  
Ion Ratio Lower Upper  
45 100  
46 52.9 13.7 54.7



#15  
Acetone  
Concen: 0.782 ppbv  
RT: 3.459 min Scan# 266  
Delta R.T. 0.009 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 43 Resp: 122077  
Ion Ratio Lower Upper  
43 100  
58 34.6 21.8 32.8#

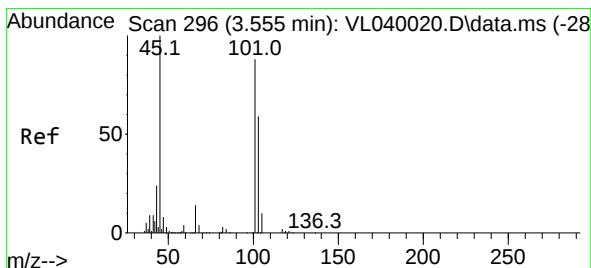
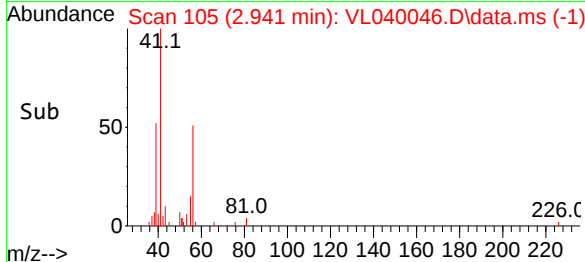
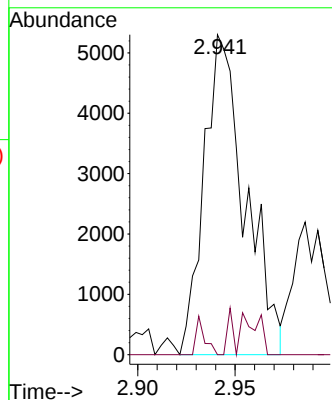
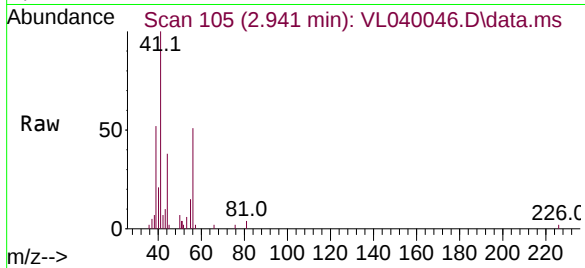




#16  
1,3-Butadiene  
Concen: 0.115 ppbv  
RT: 2.941 min Scan# 105  
Delta R.T. -0.023 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

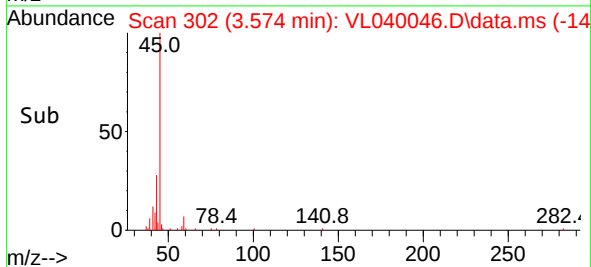
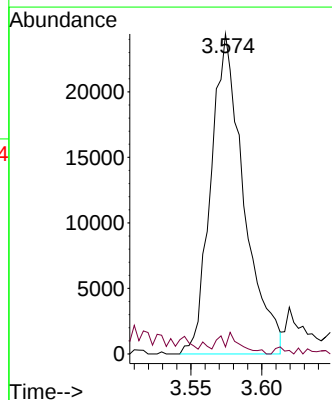
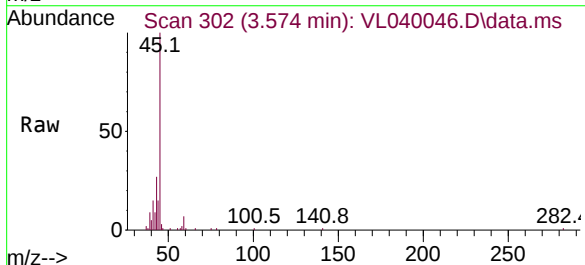
Instrument :  
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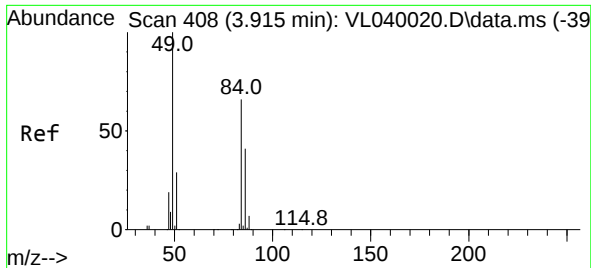
Tgt Ion: 39 Resp: 7776  
Ion Ratio Lower Upper  
39 100  
54 9.9 68.3 102.5#



#19  
Isopropyl Alcohol  
Concen: 0.516 ppbv  
RT: 3.574 min Scan# 302  
Delta R.T. 0.019 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 45 Resp: 39693  
Ion Ratio Lower Upper  
45 100  
58 5.7 1.7 2.5#

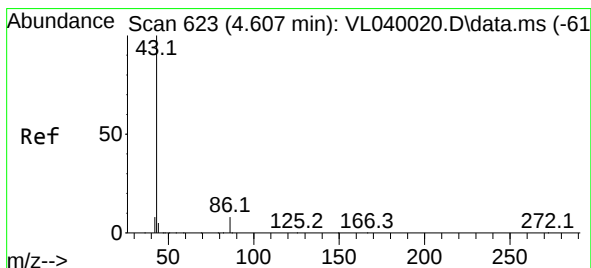
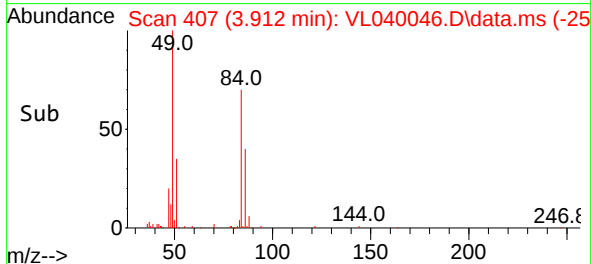
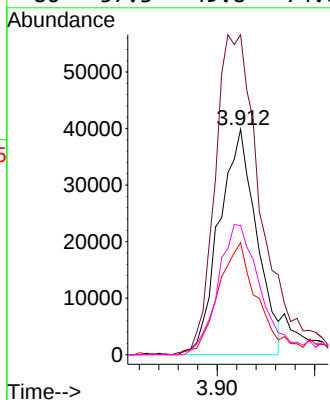
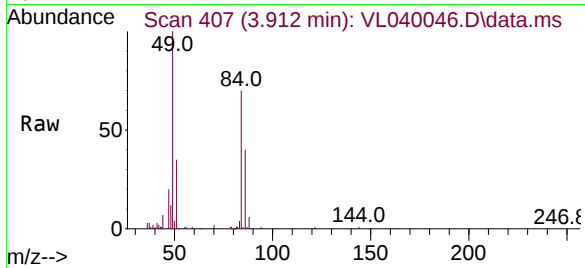




#20  
Methylene Chloride  
Concen: 0.802 ppbv  
RT: 3.912 min Scan# 407  
Delta R.T. -0.003 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

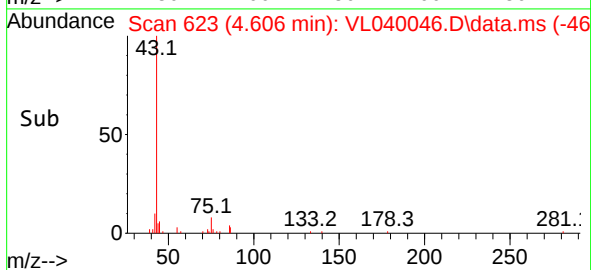
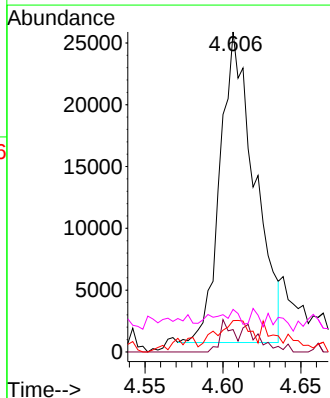
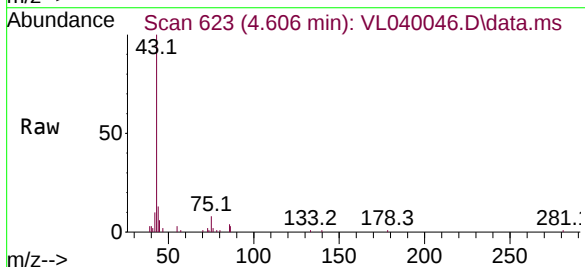
Instrument :  
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SV2DL

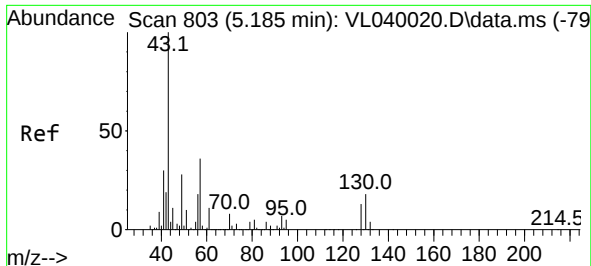
Tgt Ion: 84 Resp: 53233  
Ion Ratio Lower Upper  
84 100  
49 141.1 120.5 180.7  
51 49.7 35.2 52.8  
86 57.3 49.8 74.6



#23  
Vinyl Acetate  
Concen: 0.784 ppbv  
RT: 4.606 min Scan# 623  
Delta R.T. -0.000 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 43 Resp: 38799  
Ion Ratio Lower Upper  
43 100  
86 7.2 5.3 7.9  
42 5.7 7.4 11.0#  
44 8.7 3.8 5.6#

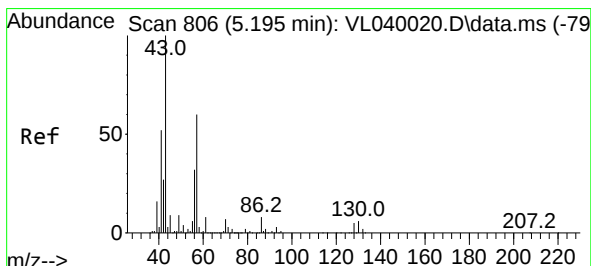
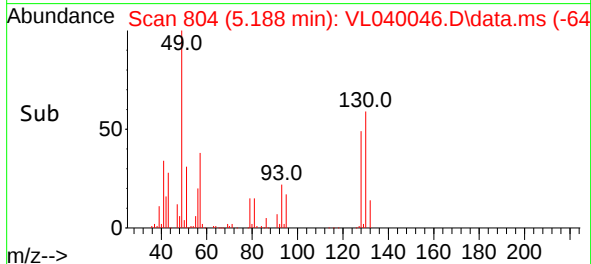
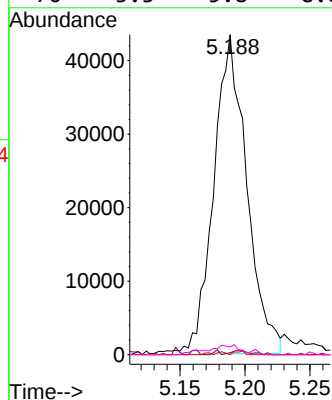
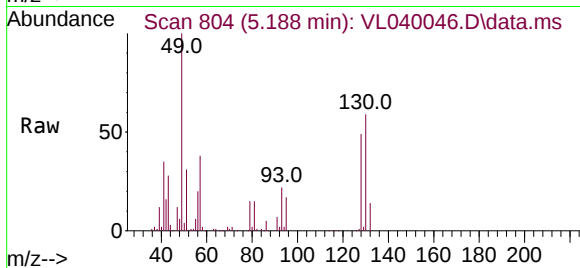




#25  
Ethyl Acetate  
Concen: 0.283 ppbv  
RT: 5.188 min Scan# 803  
Delta R.T. 0.003 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

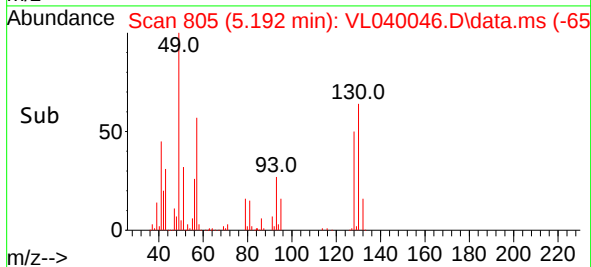
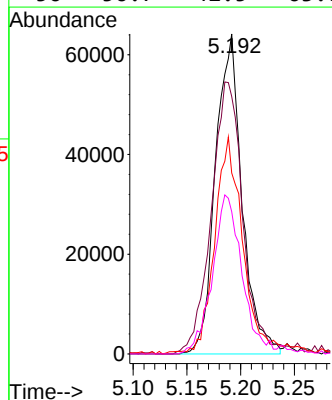
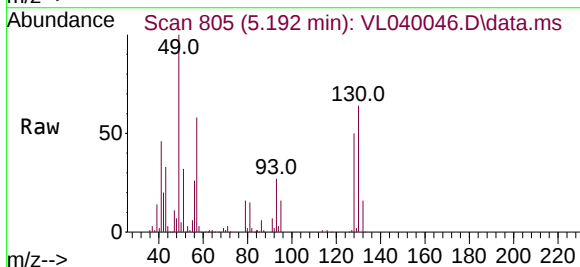
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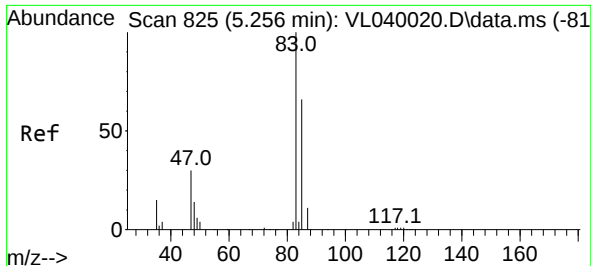
Tgt Ion: 43 Resp: 76444  
Ion Ratio Lower Upper  
43 100  
45 0.8 8.6 12.8#  
61 0.6 8.5 12.7#  
70 3.3 5.8 8.8#



#26  
Hexane  
Concen: 0.971 ppbv  
RT: 5.192 min Scan# 805  
Delta R.T. -0.003 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 57 Resp: 110290  
Ion Ratio Lower Upper  
57 100  
41 102.1 72.1 108.1  
43 74.7 192.1 288.1#  
56 56.7 42.5 63.7

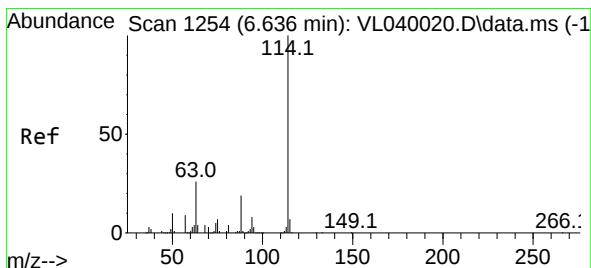
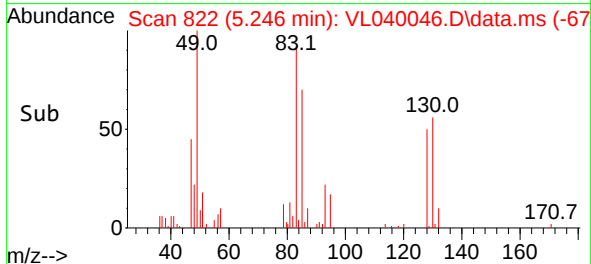
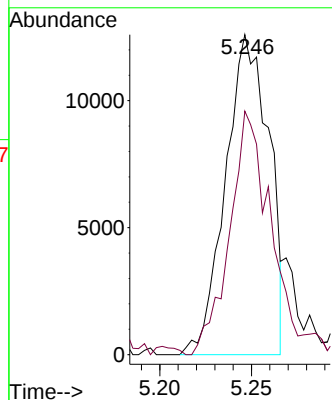
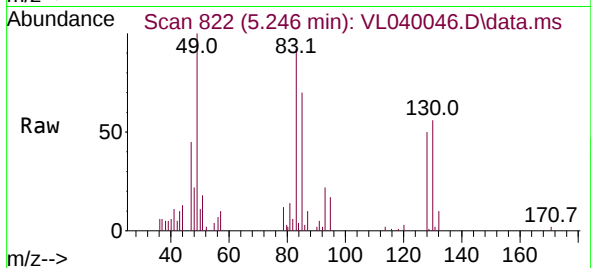




#29  
Chloroform  
Concen: 0.120 ppbv  
RT: 5.246 min Scan# 81  
Delta R.T. -0.010 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

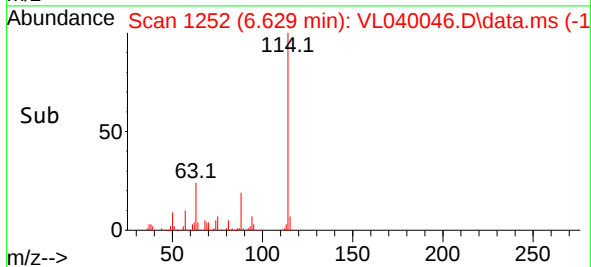
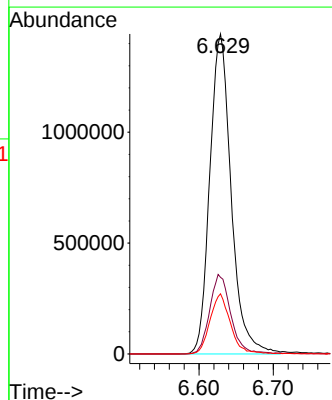
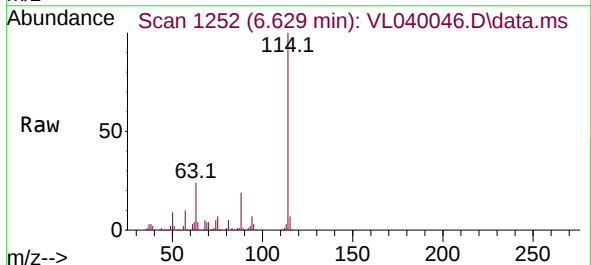
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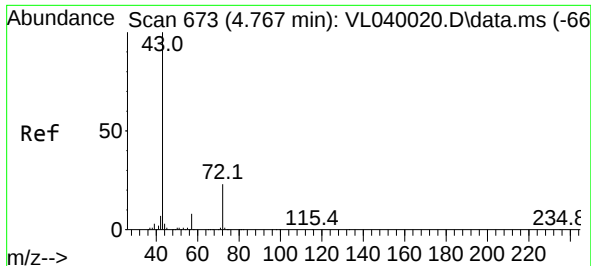
Tgt Ion: 83 Resp: 20758  
Ion Ratio Lower Upper  
83 100  
85 74.8 52.4 78.6



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.629 min Scan# 1252  
Delta R.T. -0.007 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 114 Resp: 2883295  
Ion Ratio Lower Upper  
114 100  
63 24.8 20.2 30.2  
88 18.1 14.6 21.8

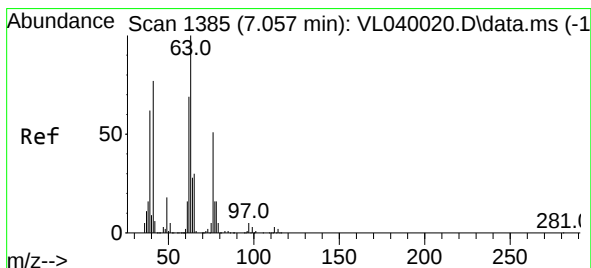
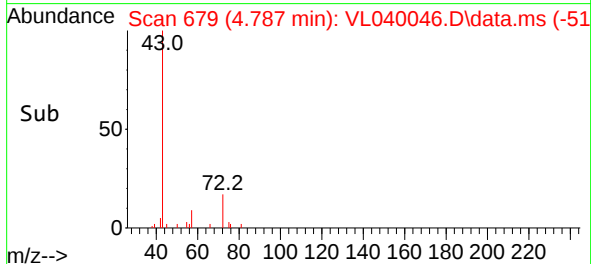
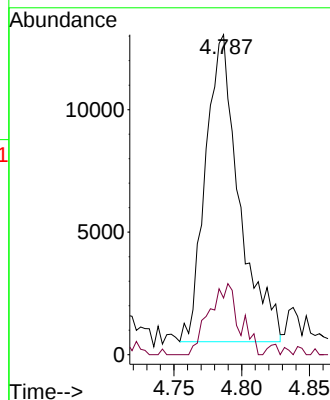
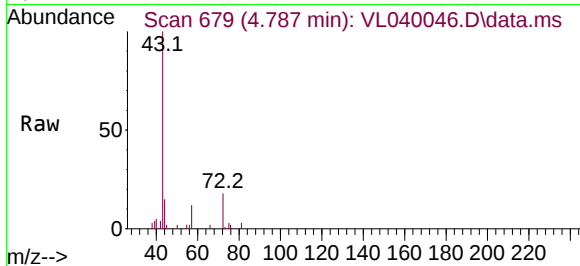




#34  
2-Butanone  
Concen: 0.138 ppbv  
RT: 4.787 min Scan# 61  
Delta R.T. 0.019 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

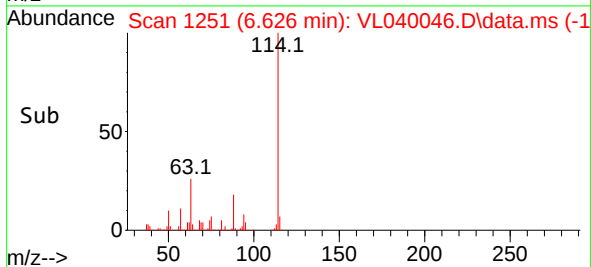
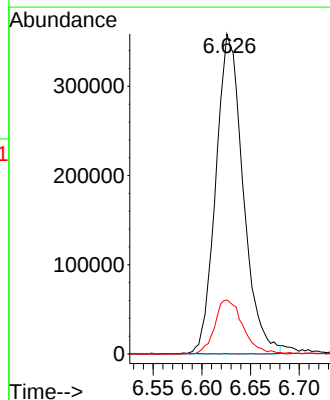
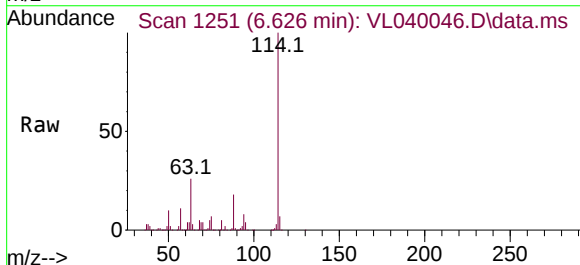
Instrument :  
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ClientSampleId :  
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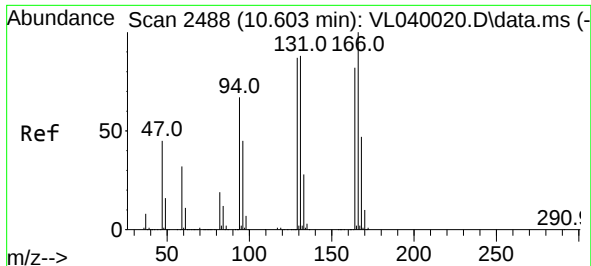
Tgt Ion: 43 Resp: 21607  
Ion Ratio Lower Upper  
43 100  
72 21.8 18.0 27.0



#39  
1,2-Dichloropropane  
Concen: 7.241 ppbv  
RT: 6.626 min Scan# 1251  
Delta R.T. -0.431 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

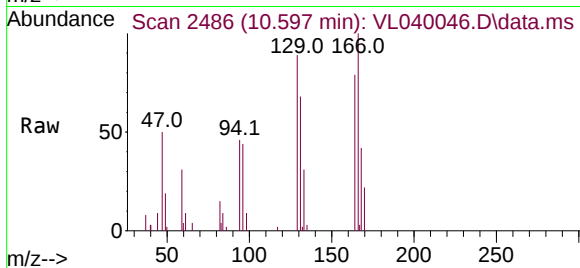
Tgt Ion: 63 Resp: 698900  
Ion Ratio Lower Upper  
63 100  
41 0.0 61.4 92.0#  
62 16.9 55.4 83.2#



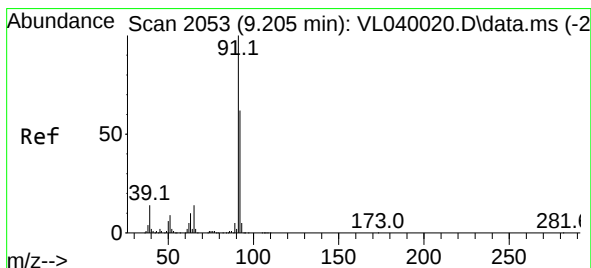
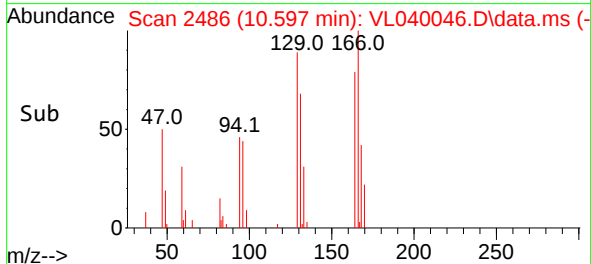
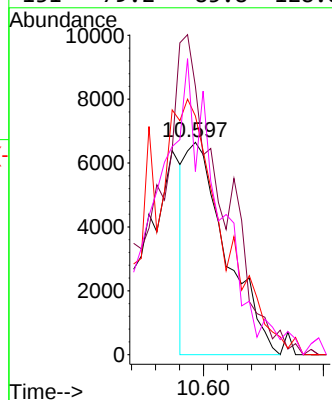


#52  
Tetrachloroethene  
Concen: 0.089 ppbv  
RT: 10.597 min Scan# 2486  
Delta R.T. -0.007 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

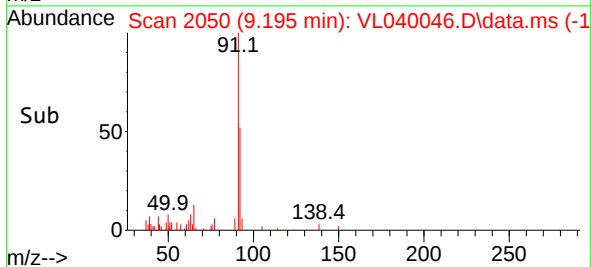
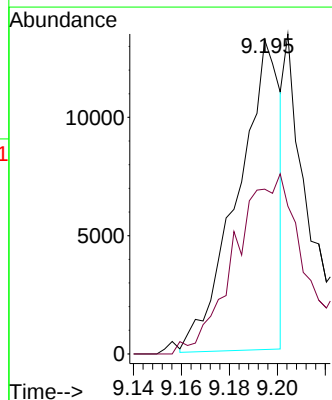
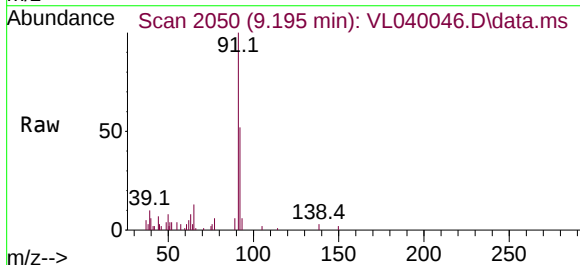


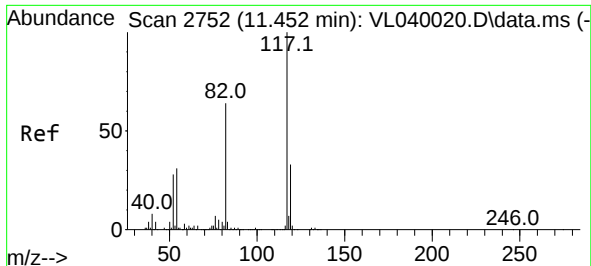
Tgt Ion:164 Resp: 7826  
Ion Ratio Lower Upper  
164 100  
166 114.9 97.4 146.0  
129 103.9 84.3 126.5  
131 79.2 85.8 128.8#



#53  
Toluene  
Concen: 0.056 ppbv  
RT: 9.195 min Scan# 2050  
Delta R.T. -0.010 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

Tgt Ion: 91 Resp: 16108  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.7 73.1#

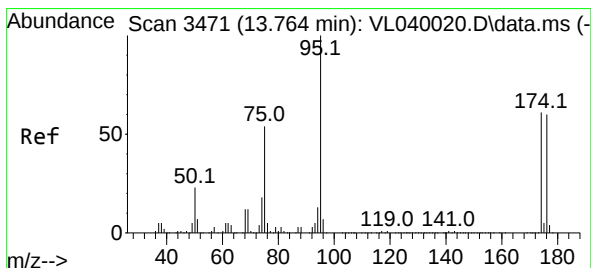
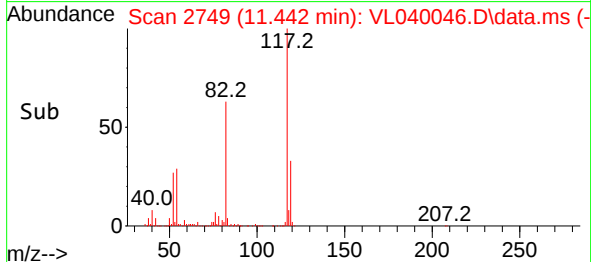
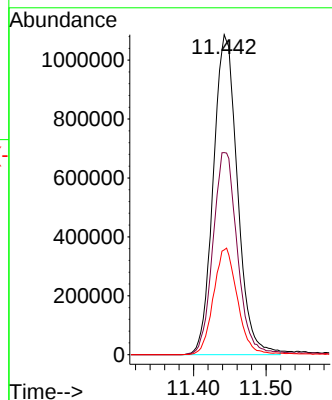
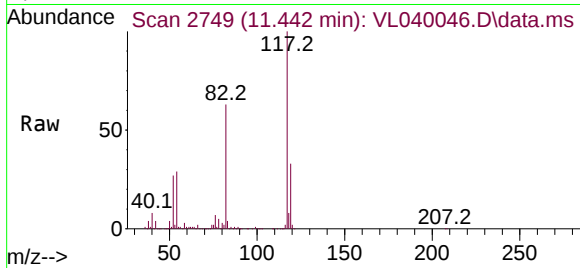




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.442 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

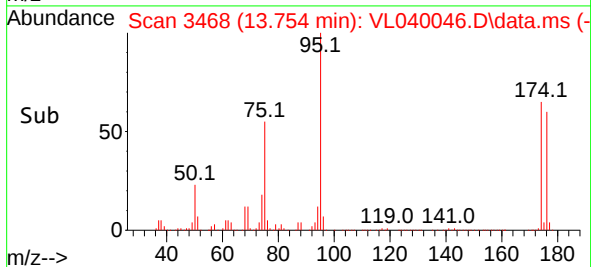
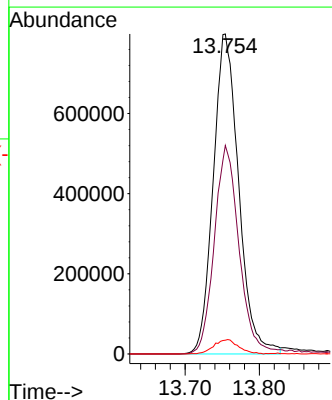
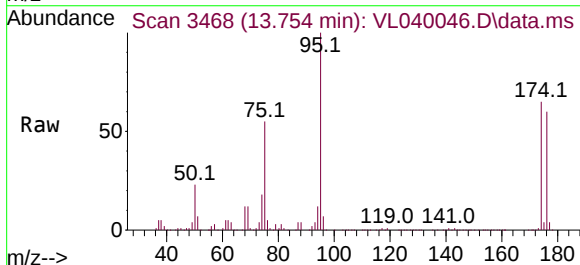
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2DL

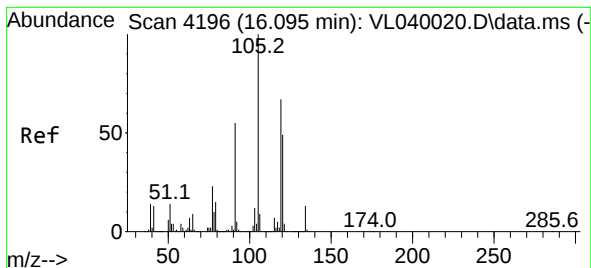
Tgt Ion:117 Resp: 2515956  
Ion Ratio Lower Upper  
117 100  
82 64.9 51.2 76.8  
119 33.3 23.2 34.8



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.888 ppbv  
RT: 13.754 min Scan# 3468  
Delta R.T. -0.010 min  
Lab File: VL040046.D  
Acq: 20 Dec 2022 2:39

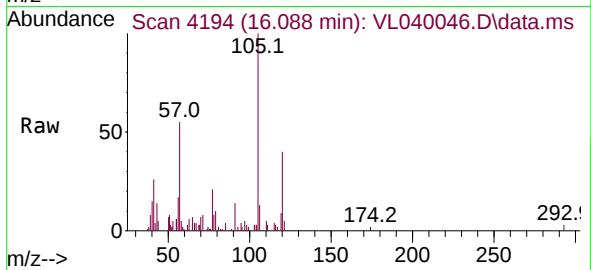
Tgt Ion: 95 Resp: 1900277  
Ion Ratio Lower Upper  
95 100  
174 64.8 48.6 73.0  
175 4.5 3.4 5.2





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.061 ppbv  
 RT: 16.088 min Scan# 4194  
 Delta R.T. -0.007 min  
 Lab File: VL040046.D  
 Acq: 20 Dec 2022 2:39

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 20179 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 38.5  | 39.3  | 58.9# |
| 91       | 14.4  | 44.2  | 66.4# |
| 77       | 15.8  | 18.8  | 28.2# |

