

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092122\  
 Data File : VL039656.D  
 Acq On : 22 Sep 2022 4:53  
 Operator : SY/AP  
 Sample : N4669-08DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0PG0DL

Quant Time: Sep 22 08:26:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Sep 19 14:26:28 2022  
 Response via : Initial Calibration

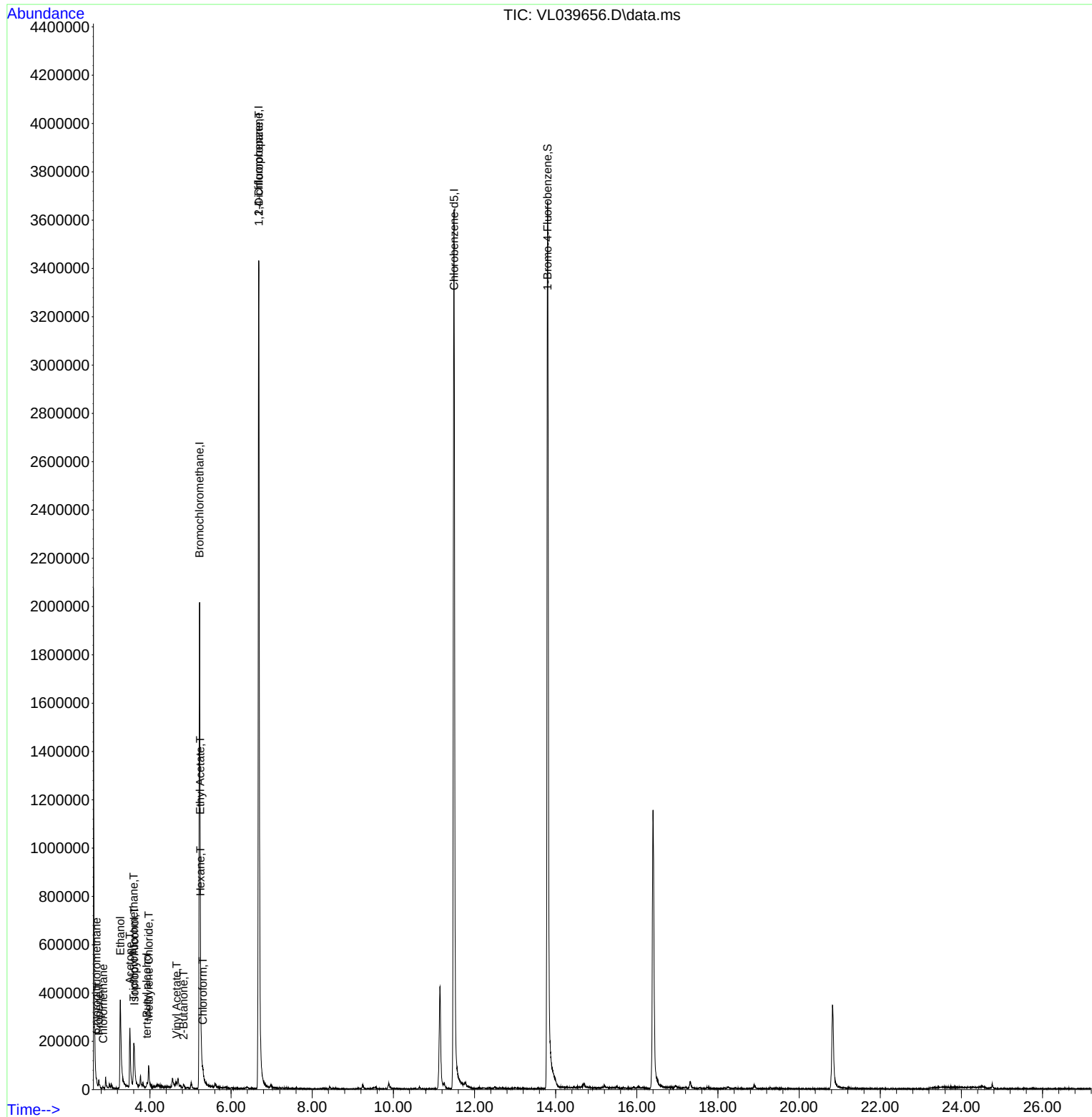
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.224  | 49    | 1022542  | 10.000   | ppbv   | 0.02     |
| 33) 1,4-Difluorobenzene     | 6.681  | 114   | 2679152  | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5        | 11.494 | 117   | 2438289  | 10.000   | ppbv   | 0.02     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.802 | 95    | 1863709  | 10.239   | ppbv   | 0.03     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 102.400% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chlorodifluoromethane    | 2.684  | 51    | 12114    | 0.100    | ppbv # | 69       |
| 4) Chloromethane            | 2.845  | 50    | 2212     | 0.030    | ppbv # | 62       |
| 9) Propene                  | 2.742  | 41    | 8318     | 0.150    | ppbv   | 97       |
| 11) Trichlorofluoromethane  | 3.600  | 101   | 85821    | 0.585    | ppbv   | 97       |
| 13) Ethanol                 | 3.269  | 45    | 463456   | 109.752  | ppbv   | 70       |
| 15) Acetone                 | 3.504  | 43    | 268168   | 2.357    | ppbv   | 94       |
| 17) tert-Butyl alcohol      | 3.925  | 59    | 10161    | 0.100    | ppbv # | 81       |
| 19) Isopropyl Alcohol       | 3.616  | 45    | 123049   | 2.122    | ppbv   | 98       |
| 20) Methylene Chloride      | 3.967  | 84    | 30951    | 0.588    | ppbv   | 95       |
| 23) Vinyl Acetate           | 4.658  | 43    | 2116     | 0.041    | ppbv # | 1        |
| 25) Ethyl Acetate           | 5.240  | 43    | 17703    | 0.071    | ppbv # | 72       |
| 26) Hexane                  | 5.247  | 57    | 12342    | 0.117    | ppbv # | 72       |
| 29) Chloroform              | 5.301  | 83    | 5447     | 0.036    | ppbv # | 28       |
| 34) 2-Butanone              | 4.825  | 43    | 15031    | 0.114    | ppbv # | 85       |
| 39) 1,2-Dichloropropane     | 6.684  | 63    | 647680   | 8.189    | ppbv # | 26       |
| -----                       |        |       |          |          |        |          |

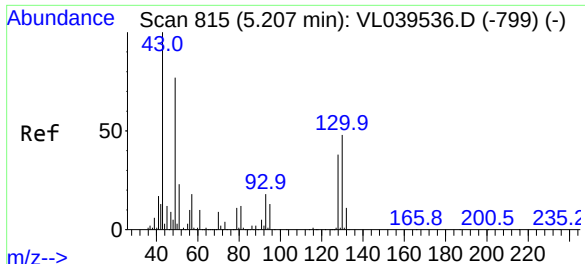
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
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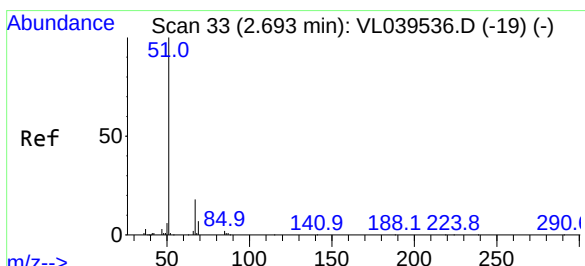
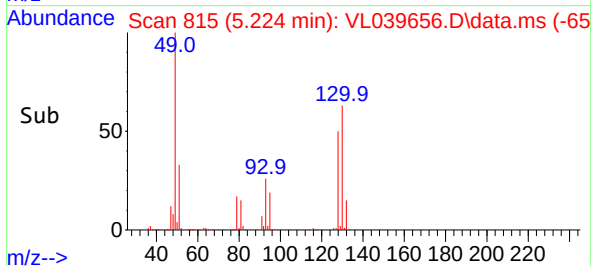
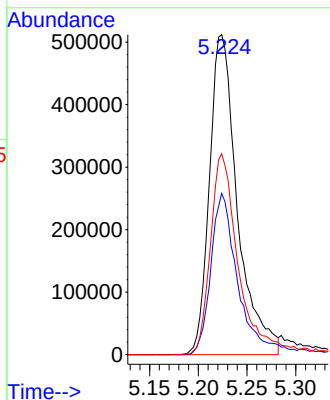
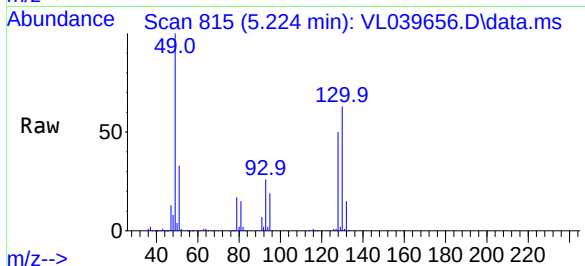




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.224 min Scan# 81  
Delta R.T. 0.017 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

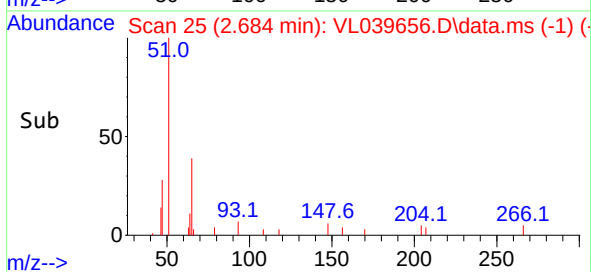
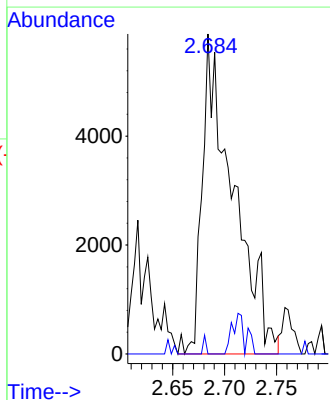
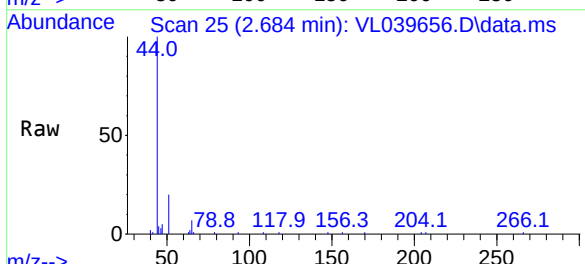
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MSVOA\_L  
ClientSampleId :  
C0PG0DL

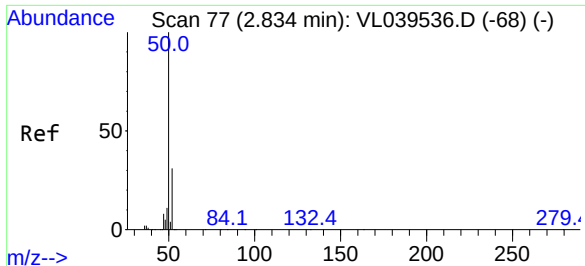
Tgt Ion: 49 Resp: 1022542  
Ion Ratio Lower Upper  
49 100  
128 51.3 26.7 80.0  
130 66.1 34.3 102.8



#3  
Chlorodifluoromethane  
Concen: 0.100 ppbv  
RT: 2.684 min Scan# 25  
Delta R.T. -0.009 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

Tgt Ion: 51 Resp: 12114  
Ion Ratio Lower Upper  
51 100  
67 5.4 15.7 23.5#





#4  
Chloromethane  
Concen: 0.030 ppbv  
RT: 2.845 min Scan# 71  
Delta R.T. 0.010 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

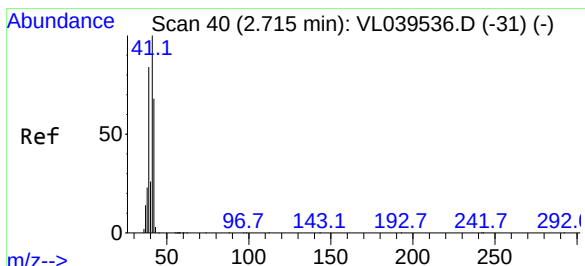
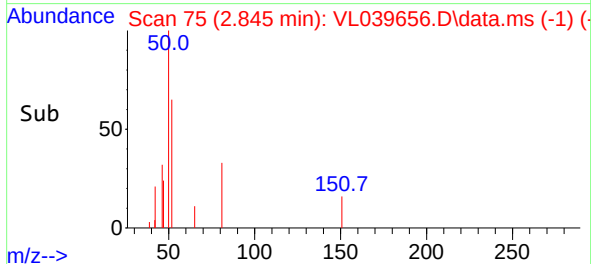
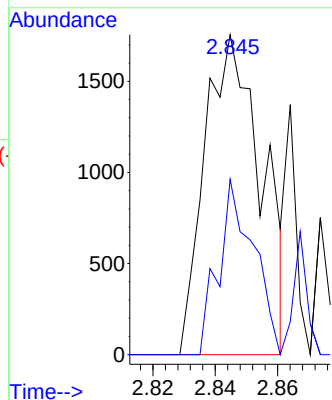
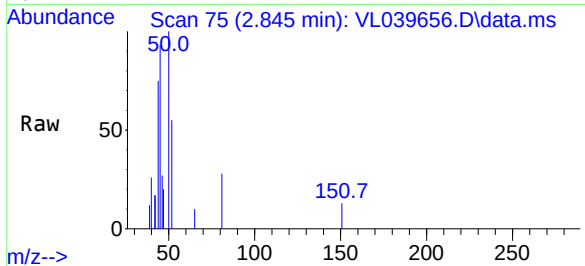
Instrument :

MSVOA\_L

ClientSampleId :

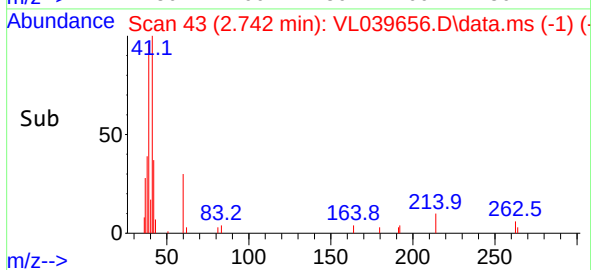
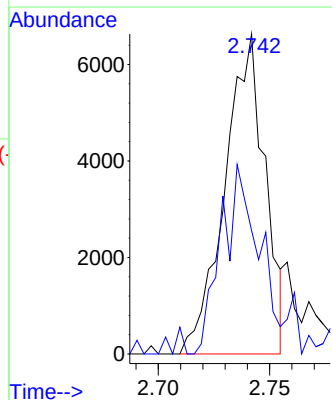
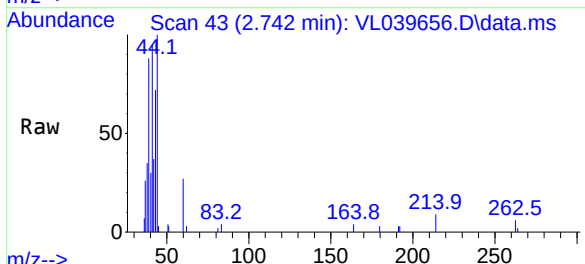
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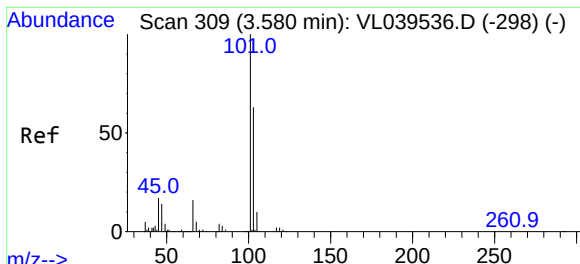
Tgt Ion: 50 Resp: 2212  
Ion Ratio Lower Upper  
50 100  
52 54.8 26.5 39.7#



#9  
Propene  
Concen: 0.150 ppbv  
RT: 2.742 min Scan# 43  
Delta R.T. 0.026 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

Tgt Ion: 41 Resp: 8318  
Ion Ratio Lower Upper  
41 100  
42 71.2 55.2 82.8

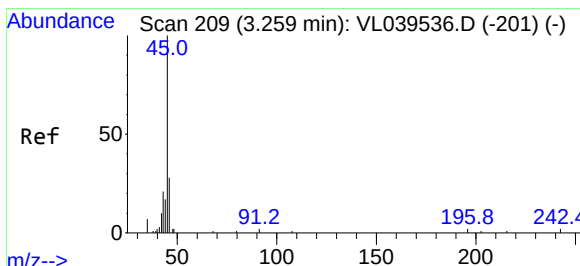
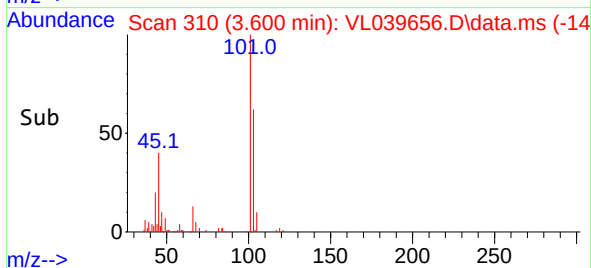
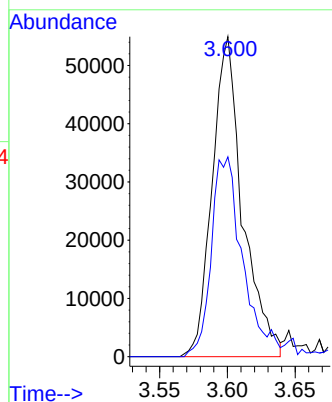
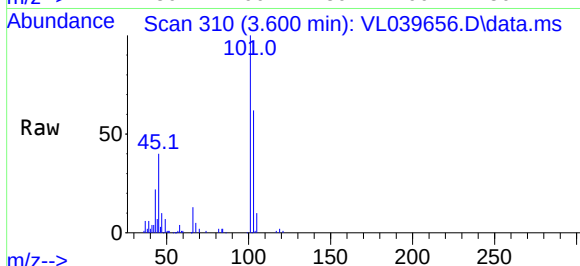




#11  
 Trichlorofluoromethane  
 Concen: 0.585 ppbv  
 RT: 3.600 min Scan# 310  
 Delta R.T. 0.020 min  
 Lab File: VL039656.D  
 Acq: 22 Sep 2022 4:53

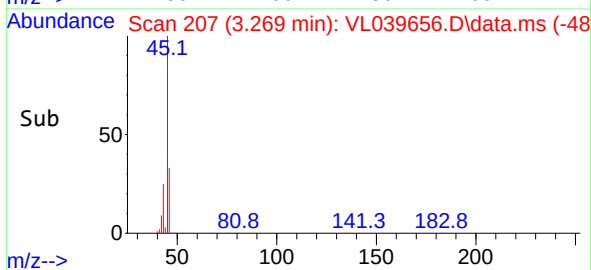
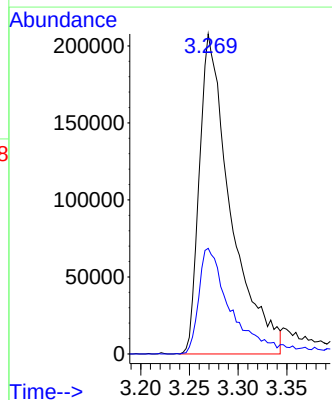
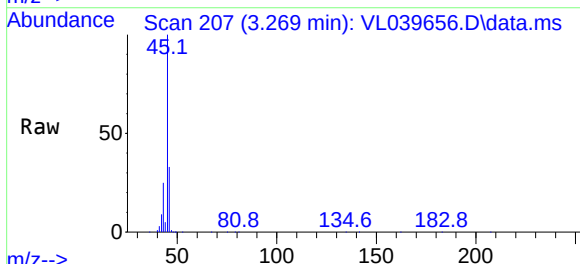
Instrument :  
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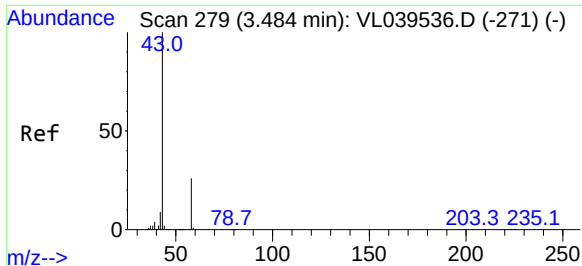
Tgt Ion:101 Resp: 85821  
 Ion Ratio Lower Upper  
 101 100  
 103 62.4 51.8 77.8



#13  
 Ethanol  
 Concen: 109.752 ppbv  
 RT: 3.269 min Scan# 207  
 Delta R.T. 0.010 min  
 Lab File: VL039656.D  
 Acq: 22 Sep 2022 4:53

Tgt Ion: 45 Resp: 463456  
 Ion Ratio Lower Upper  
 45 100  
 46 35.1 22.8 91.2





#15

Acetone

Concen: 2.357 ppbv

RT: 3.504 min Scan# 21

Delta R.T. 0.020 min

Lab File: VL039656.D

Acq: 22 Sep 2022 4:53

Instrument :

MSVOA\_L

ClientSampleId :

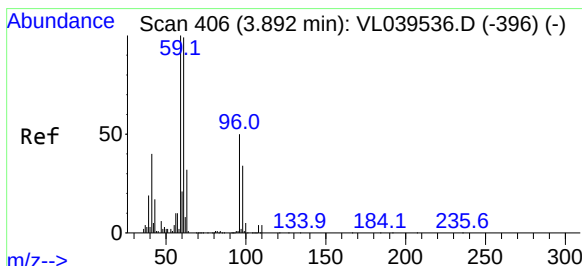
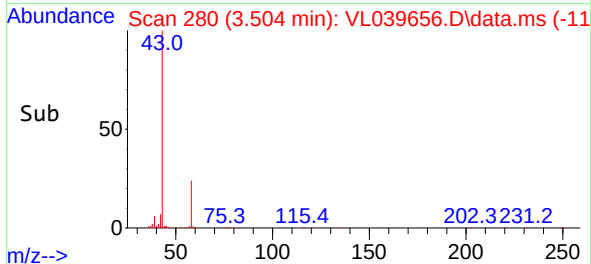
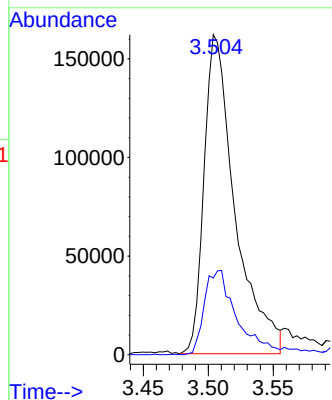
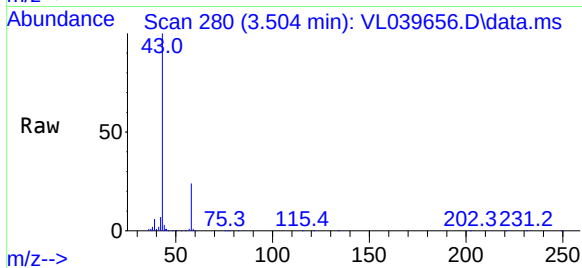
C0PG0DL

Tgt Ion: 43 Resp: 268168

Ion Ratio Lower Upper

43 100

58 29.4 21.0 31.6



#17

tert-Butyl alcohol

Concen: 0.100 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.033 min

Lab File: VL039656.D

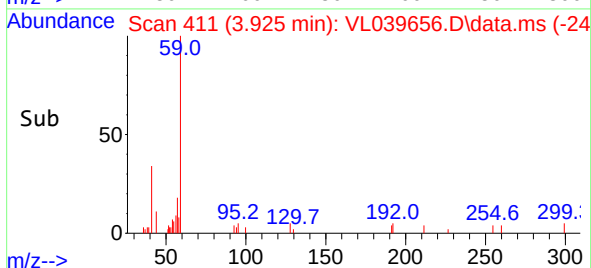
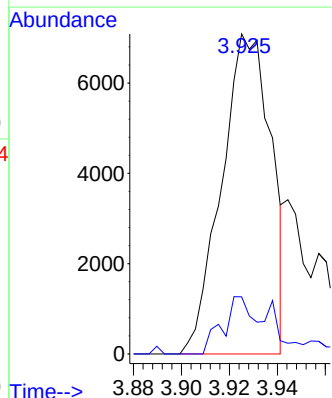
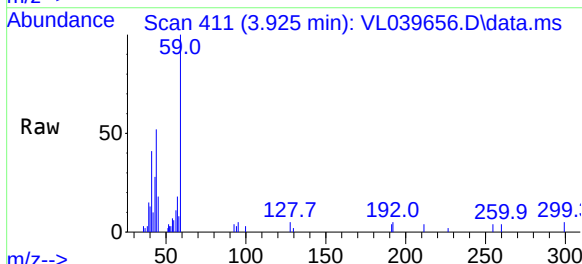
Acq: 22 Sep 2022 4:53

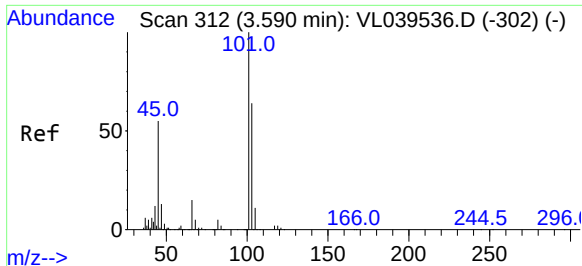
Tgt Ion: 59 Resp: 10161

Ion Ratio Lower Upper

59 100

57 17.9 8.7 13.1#

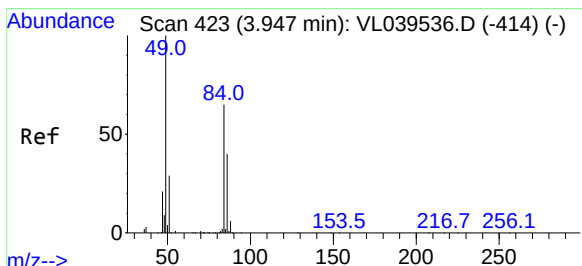
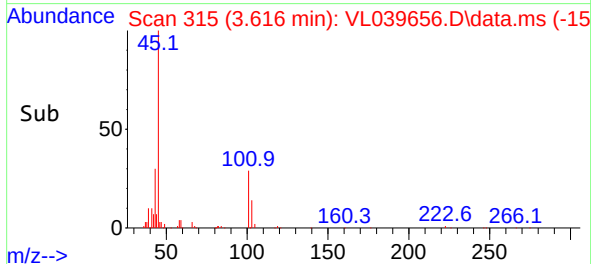
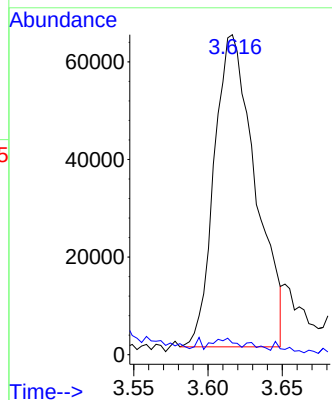
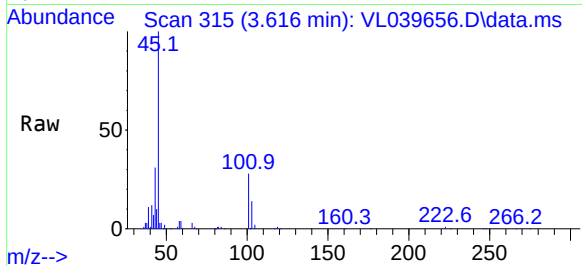




#19  
Isopropyl Alcohol  
Concen: 2.122 ppbv  
RT: 3.616 min Scan# 315  
Delta R.T. 0.026 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

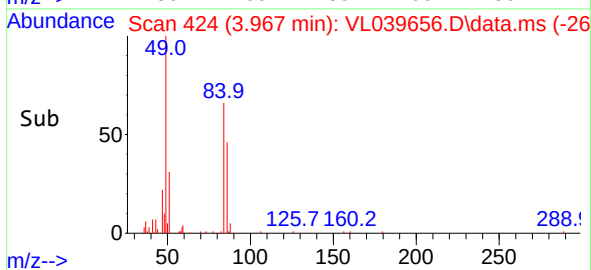
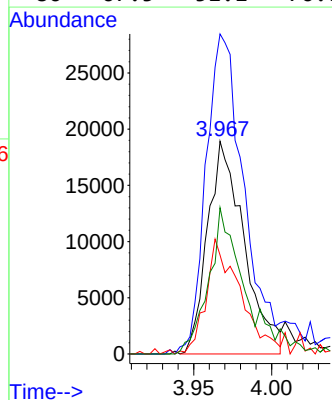
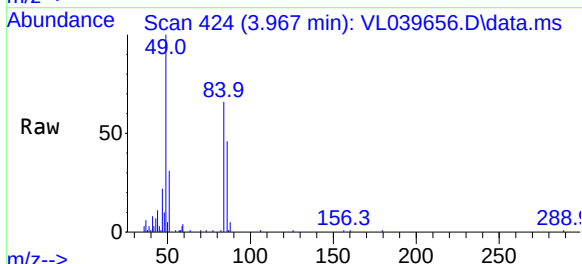
Instrument :  
MSVOA\_L  
ClientSampleId :  
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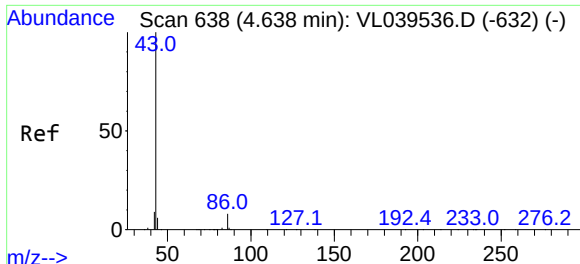
Tgt Ion: 45 Resp: 123049  
Ion Ratio Lower Upper  
45 100  
58 4.7 3.2 4.8



#20  
Methylene Chloride  
Concen: 0.588 ppbv  
RT: 3.967 min Scan# 424  
Delta R.T. 0.020 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

Tgt Ion: 84 Resp: 30951  
Ion Ratio Lower Upper  
84 100  
49 145.6 123.1 184.7  
51 45.1 34.4 51.6  
86 67.5 51.1 76.7

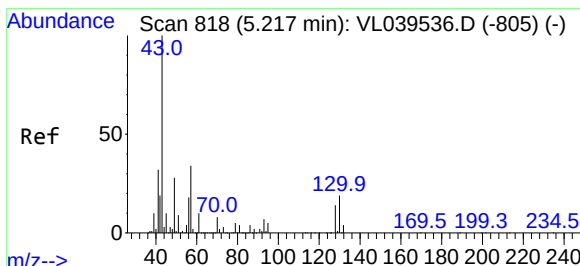
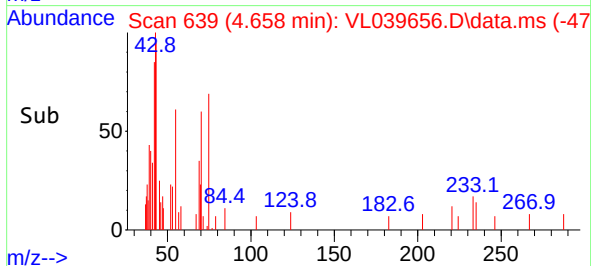
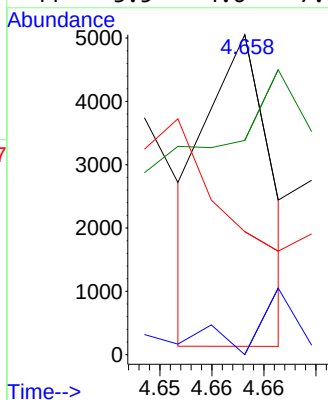
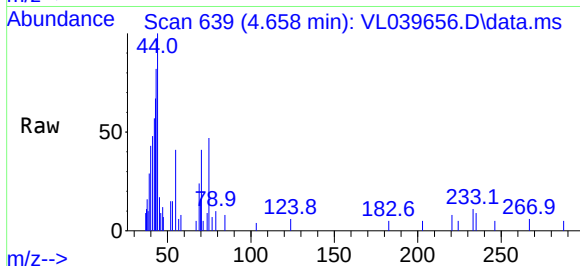




#23  
 Vinyl Acetate  
 Concen: 0.041 ppbv  
 RT: 4.658 min Scan# 61  
 Delta R.T. 0.020 min  
 Lab File: VL039656.D  
 Acq: 22 Sep 2022 4:53

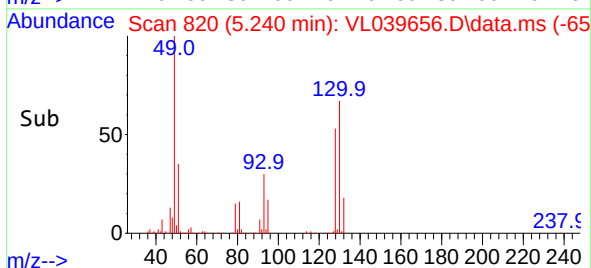
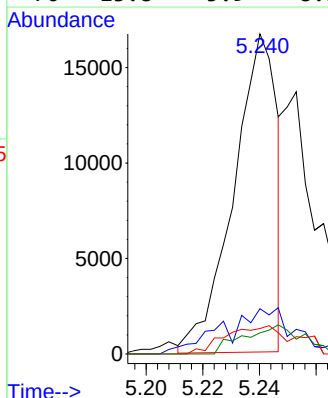
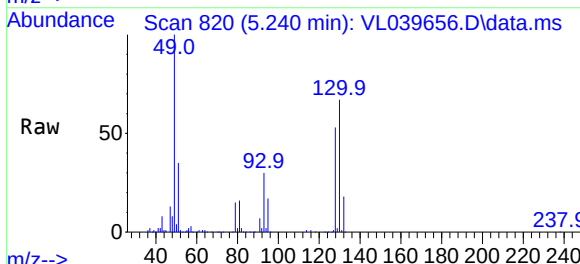
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 C0PG0DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2116  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 5.0   | 7.6#  |
| 42       | 99.0  | 7.7   | 11.5# |
| 44       | 3.5   | 4.6   | 7.0#  |

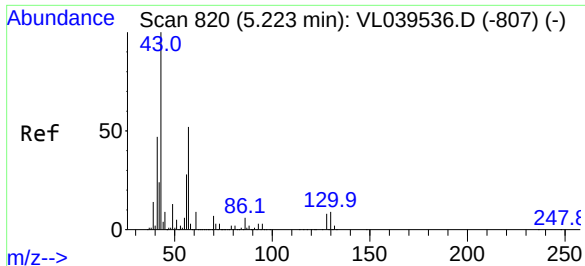


#25  
 Ethyl Acetate  
 Concen: 0.071 ppbv  
 RT: 5.240 min Scan# 820  
 Delta R.T. 0.023 min  
 Lab File: VL039656.D  
 Acq: 22 Sep 2022 4:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 17703 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 28.1  | 8.2   | 12.4# |
| 61       | 15.9  | 8.3   | 12.5# |
| 70       | 13.8  | 5.9   | 8.9#  |



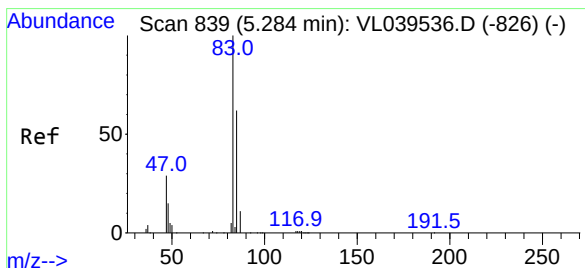
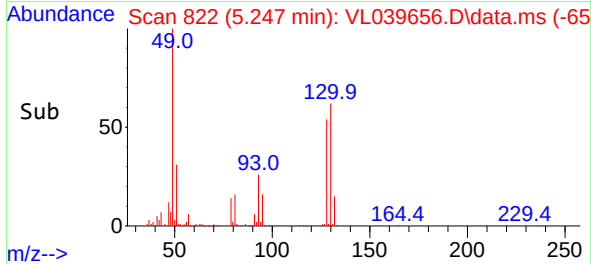
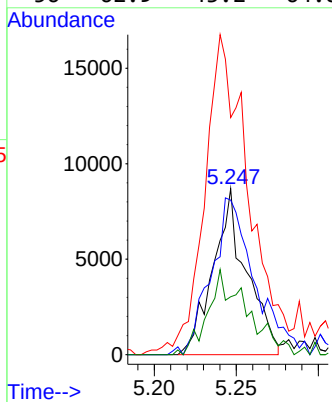
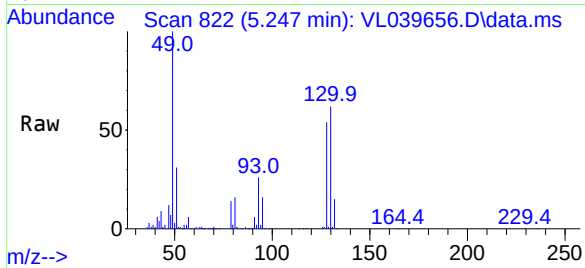




#26  
Hexane  
Concen: 0.117 ppbv  
RT: 5.247 min Scan# 81  
Delta R.T. 0.023 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

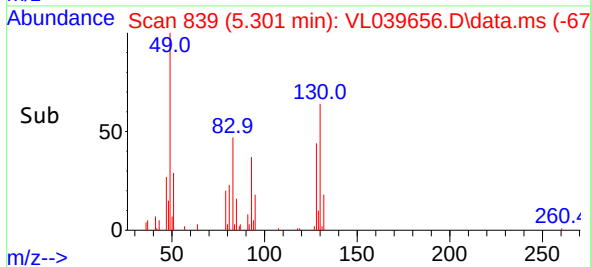
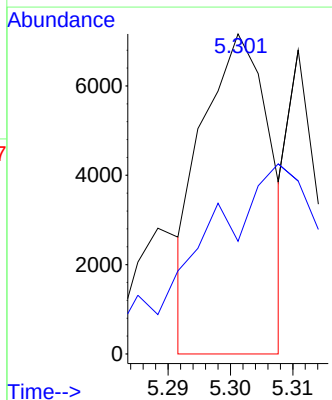
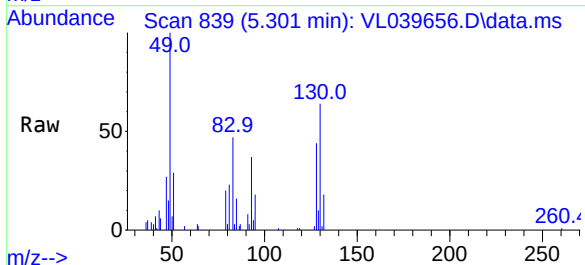
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0PG0DL

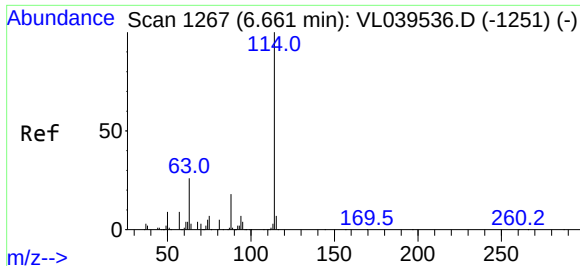
Tgt Ion: 57 Resp: 12342  
Ion Ratio Lower Upper  
57 100  
41 127.8 76.9 115.3#  
43 288.2 191.0 286.6#  
56 62.9 43.2 64.8



#29  
Chloroform  
Concen: 0.036 ppbv  
RT: 5.301 min Scan# 839  
Delta R.T. 0.017 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

Tgt Ion: 83 Resp: 5447  
Ion Ratio Lower Upper  
83 100  
85 8.5 52.8 79.2#

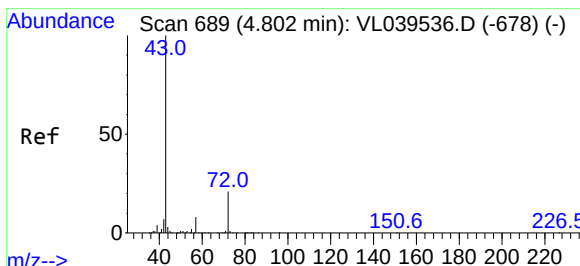
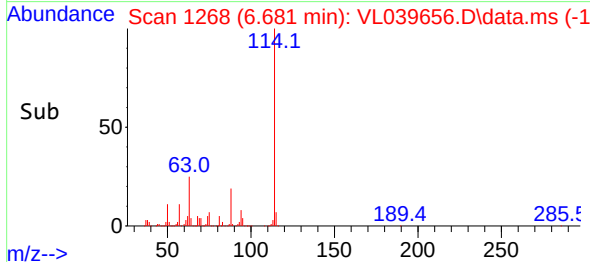
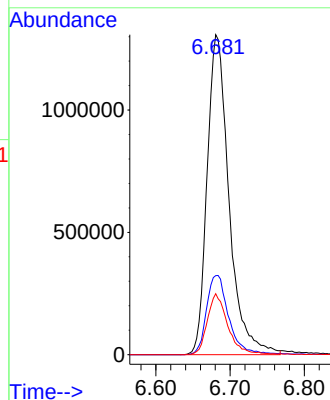
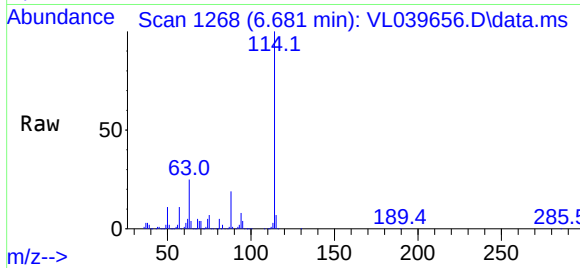




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.681 min Scan# 114  
Delta R.T. 0.020 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

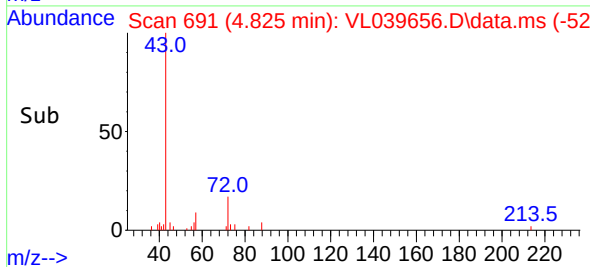
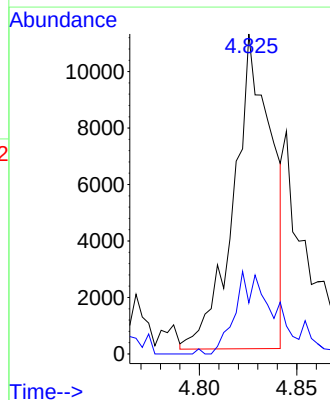
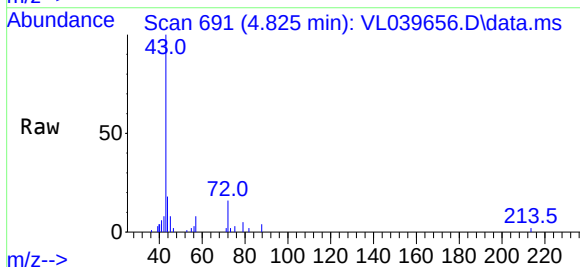
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0PG0DL

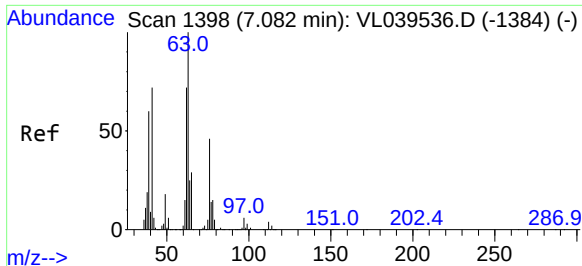
Tgt Ion:114 Resp: 2679152  
Ion Ratio Lower Upper  
114 100  
63 25.5 20.2 30.4  
88 18.1 14.5 21.7



#34  
2-Butanone  
Concen: 0.114 ppbv  
RT: 4.825 min Scan# 691  
Delta R.T. 0.023 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

Tgt Ion: 43 Resp: 15031  
Ion Ratio Lower Upper  
43 100  
72 29.5 17.9 26.9#

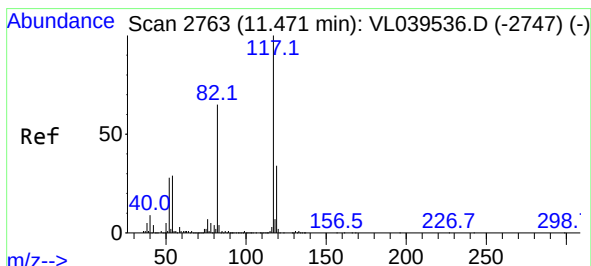
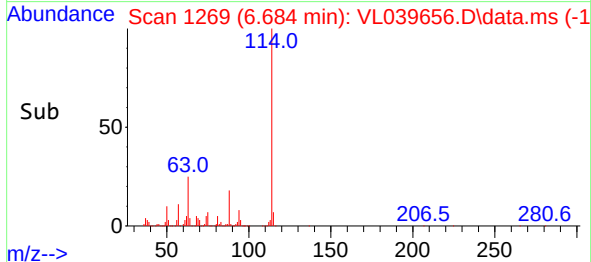
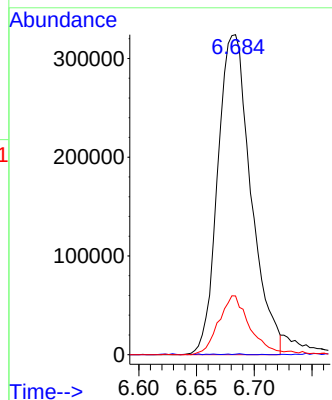
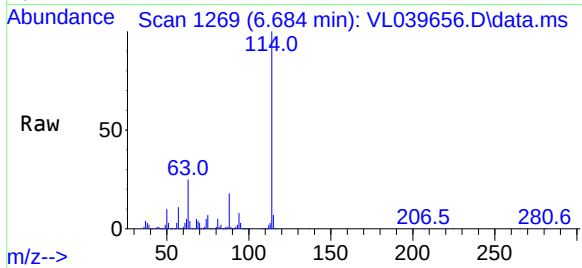




#39  
1,2-Dichloropropane  
Concen: 8.189 ppbv  
RT: 6.684 min Scan# 11  
Delta R.T. -0.398 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

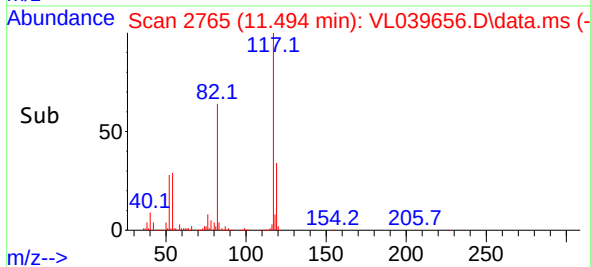
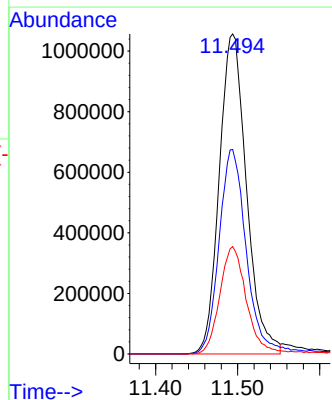
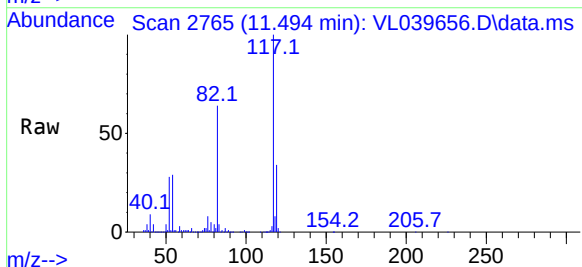
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0PG0DL

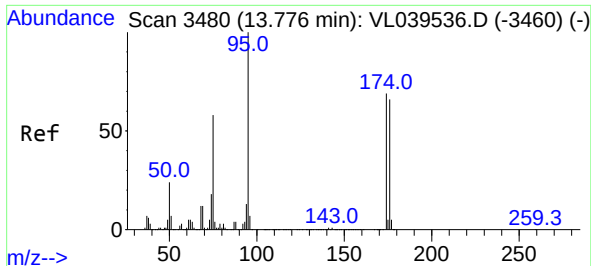
Tgt Ion: 63 Resp: 647680  
Ion Ratio Lower Upper  
63 100  
41 0.2 59.6 89.4#  
62 18.4 51.4 77.0#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.494 min Scan# 2765  
Delta R.T. 0.023 min  
Lab File: VL039656.D  
Acq: 22 Sep 2022 4:53

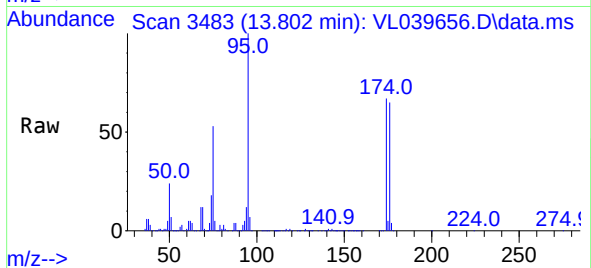
Tgt Ion: 117 Resp: 2438289  
Ion Ratio Lower Upper  
117 100  
82 65.8 50.8 76.2  
119 33.8 24.1 36.1





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.239 ppbv  
 RT: 13.802 min Scan# 34  
 Delta R.T. 0.027 min  
 Lab File: VL039656.D  
 Acq: 22 Sep 2022 4:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0PG0DL



Tgt Ion: 95 Resp: 1863709

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 71.0  | 55.9  | 83.9  |
| 175 | 5.4   | 4.2   | 6.4   |

