

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092122\  
 Data File : VL039644.D  
 Acq On : 21 Sep 2022 20:58  
 Operator : SY/AP  
 Sample : N4669-02DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 22 08:19:58 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

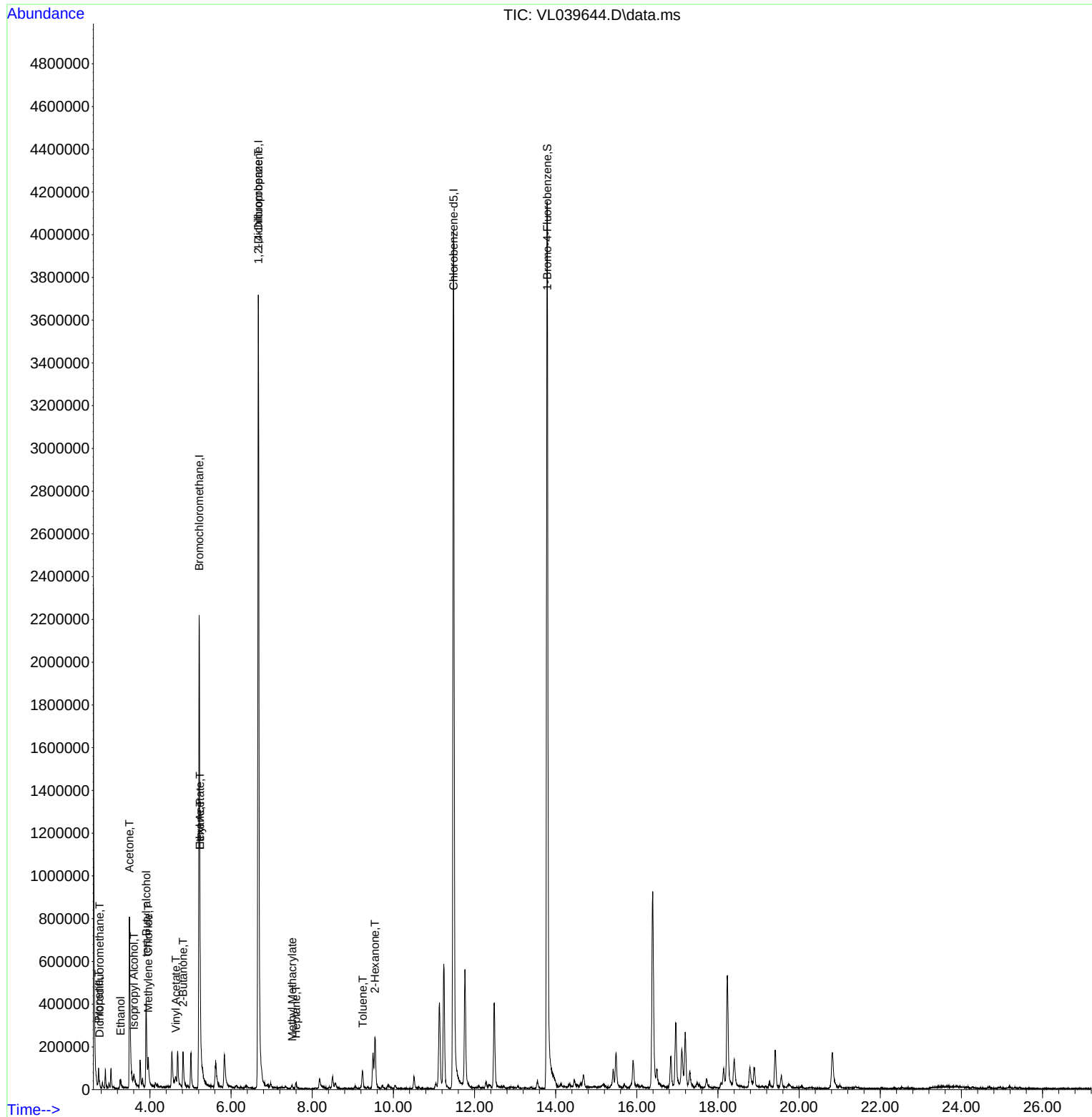
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 5.214  | 49    | 1148675  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 6.671  | 114   | 2992624  | 10.000   | ppbv   | 0.01     |
| 55) Chlorobenzene-d5        | 11.484 | 117   | 2689462  | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.793 | 95    | 2038887  | 10.155   | ppbv   | 0.02     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 101.600% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 2.758  | 85    | 7427     | 0.056    | ppbv   | 91       |
| 9) Propene                  | 2.735  | 41    | 24096    | 0.387    | ppbv # | 69       |
| 10) Heptane                 | 7.600  | 43    | 7266     | 0.050    | ppbv # | 65       |
| 13) Ethanol                 | 3.275  | 45    | 44608    | 9.404    | ppbv   | 75       |
| 15) Acetone                 | 3.497  | 43    | 876086   | 6.854    | ppbv   | 94       |
| 17) tert-Butyl alcohol      | 3.909  | 59    | 319762   | 2.788    | ppbv   | 96       |
| 19) Isopropyl Alcohol       | 3.603  | 45    | 44842    | 0.688    | ppbv # | 88       |
| 20) Methylene Chloride      | 3.957  | 84    | 33004    | 0.558    | ppbv # | 90       |
| 23) Vinyl Acetate           | 4.639  | 43    | 8515     | 0.147    | ppbv # | 1        |
| 25) Ethyl Acetate           | 5.234  | 43    | 29700    | 0.107    | ppbv # | 92       |
| 26) Hexane                  | 5.234  | 57    | 17016    | 0.144    | ppbv # | 57       |
| 34) 2-Butanone              | 4.816  | 43    | 200466   | 1.364    | ppbv   | 94       |
| 39) 1,2-Dichloropropane     | 6.674  | 63    | 737923   | 8.352    | ppbv # | 25       |
| 43) Methyl Methacrylate     | 7.503  | 69    | 2842     | 0.034    | ppbv # | 1        |
| 51) 2-Hexanone              | 9.545  | 43    | 143655   | 0.840    | ppbv # | 31       |
| 53) Toluene                 | 9.243  | 91    | 27059    | 0.106    | ppbv # | 21       |
| -----                       |        |       |          |          |        |          |

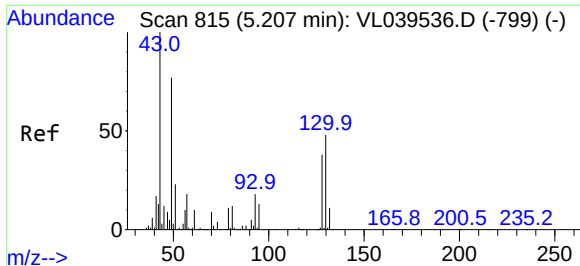
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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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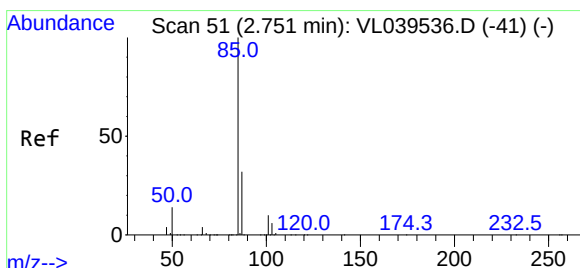
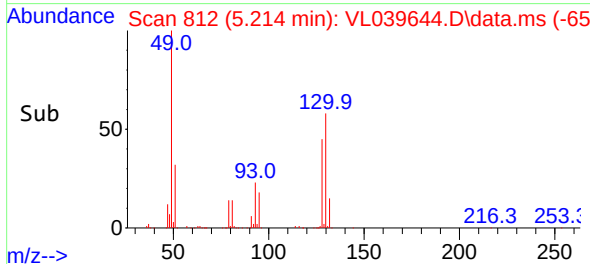
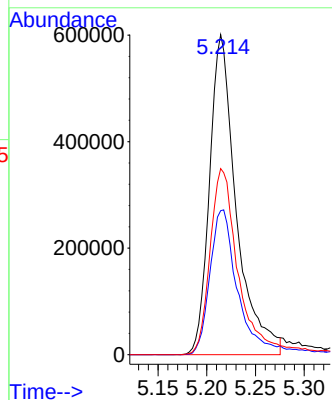
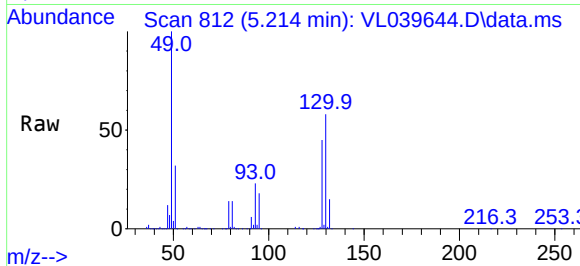




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.214 min Scan# 81  
 Delta R.T. 0.007 min  
 Lab File: VL039644.D  
 Acq: 21 Sep 2022 20:58

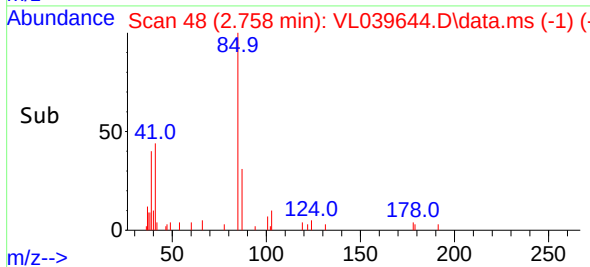
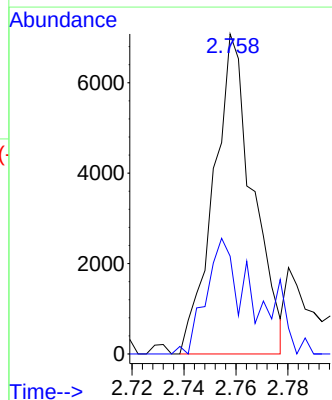
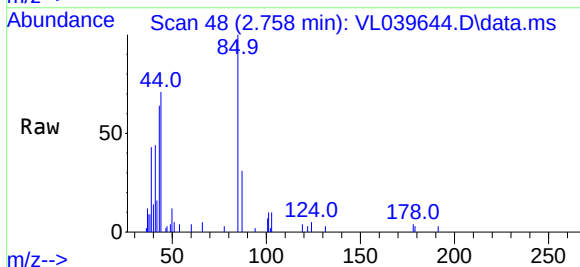
Instrument :  
 MSVOA\_L  
 ClientSampleId :

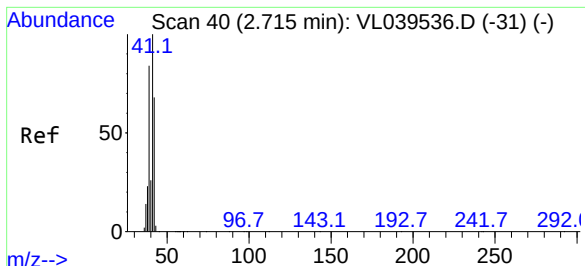
Tgt Ion: 49 Resp: 1148675  
 Ion Ratio Lower Upper  
 49 100  
 128 50.3 26.7 80.0  
 130 64.7 34.3 102.8



#2  
 Dichlorodifluoromethane  
 Concen: 0.056 ppbv  
 RT: 2.758 min Scan# 48  
 Delta R.T. 0.007 min  
 Lab File: VL039644.D  
 Acq: 21 Sep 2022 20:58

Tgt Ion: 85 Resp: 7427  
 Ion Ratio Lower Upper  
 85 100  
 87 28.2 26.7 40.1

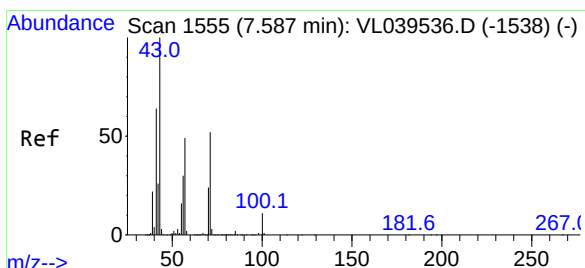
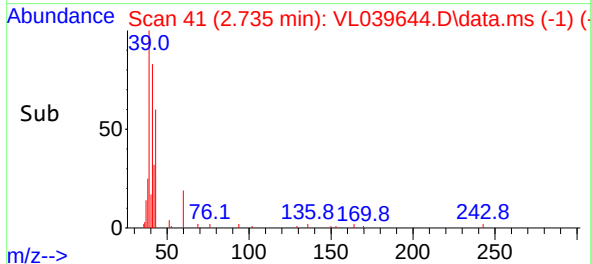
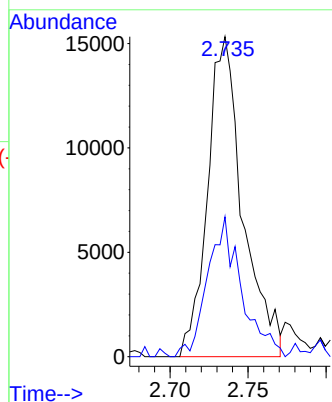
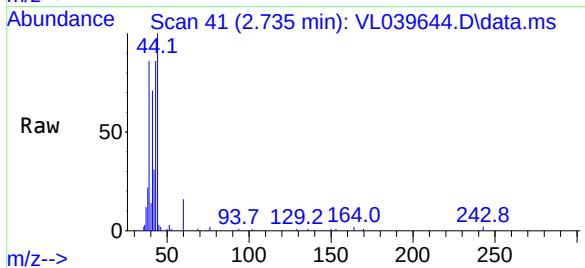




#9  
 Propene  
 Concen: 0.387 ppbv  
 RT: 2.735 min Scan# 41  
 Delta R.T. 0.020 min  
 Lab File: VL039644.D  
 Acq: 21 Sep 2022 20:58

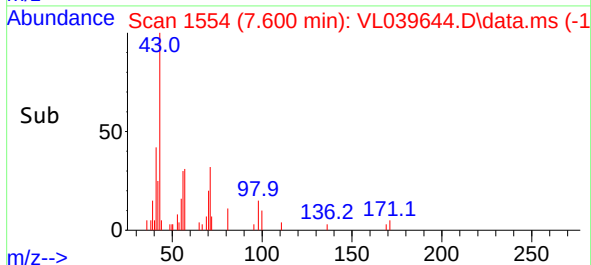
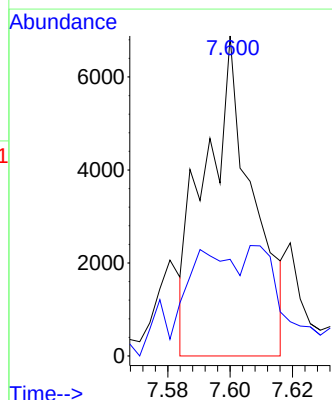
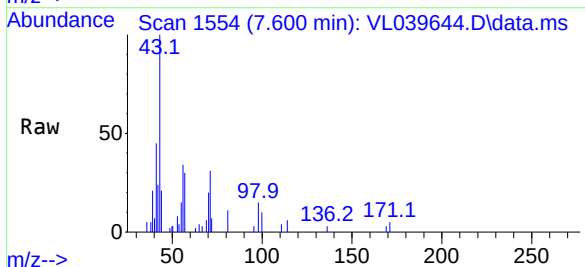
Instrument :  
 MSVOA\_L  
 ClientSampleId :

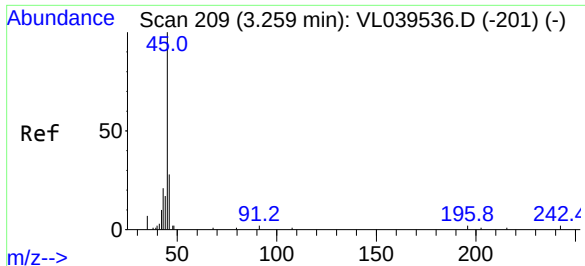
Tgt Ion: 41 Resp: 24096  
 Ion Ratio Lower Upper  
 41 100  
 42 43.4 55.2 82.8#



#10  
 Heptane  
 Concen: 0.050 ppbv  
 RT: 7.600 min Scan# 1554  
 Delta R.T. 0.013 min  
 Lab File: VL039644.D  
 Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 7266  
 Ion Ratio Lower Upper  
 43 100  
 57 75.1 40.5 60.7#

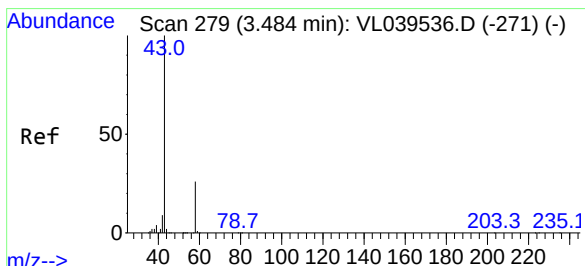
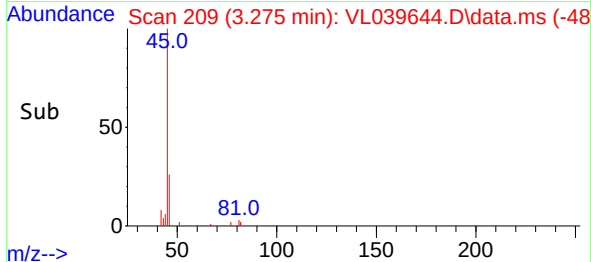
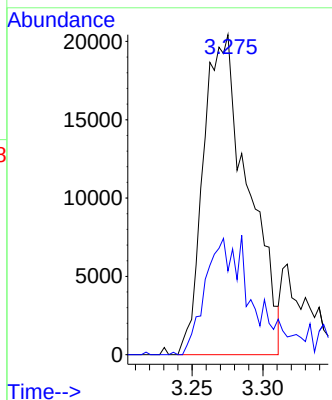
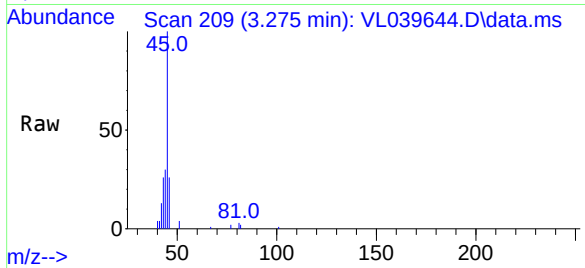




#13  
Ethanol  
Concen: 9.404 ppbv  
RT: 3.275 min Scan# 209  
Delta R.T. 0.017 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

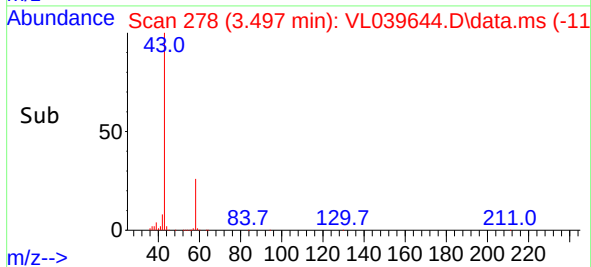
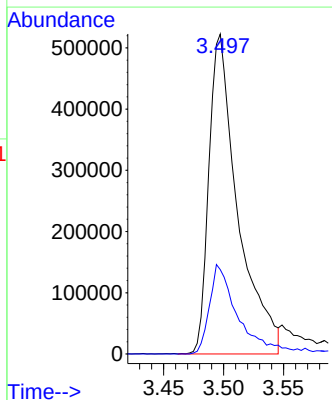
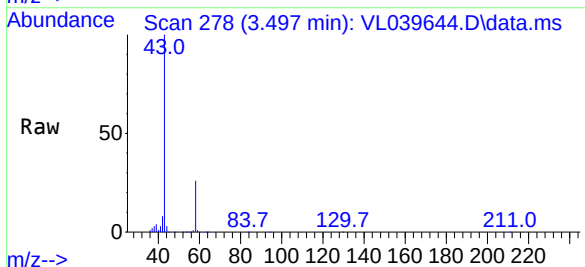
Instrument :  
MSVOA\_L  
ClientSampleId :

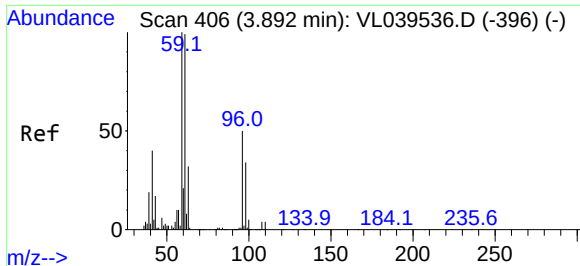
Tgt Ion: 45 Resp: 44608  
Ion Ratio Lower Upper  
45 100  
46 38.4 22.8 91.2



#15  
Acetone  
Concen: 6.854 ppbv  
RT: 3.497 min Scan# 278  
Delta R.T. 0.013 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 876086  
Ion Ratio Lower Upper  
43 100  
58 29.5 21.0 31.6

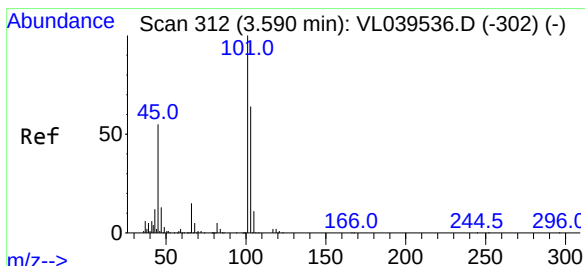
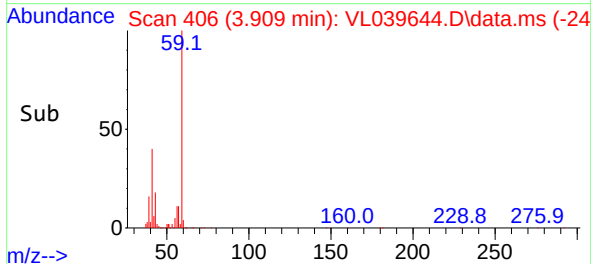
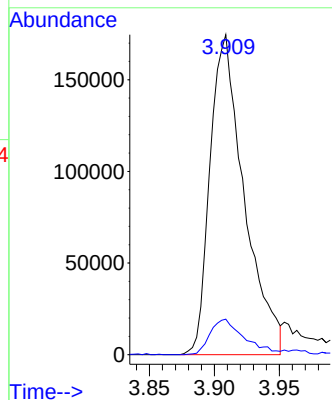
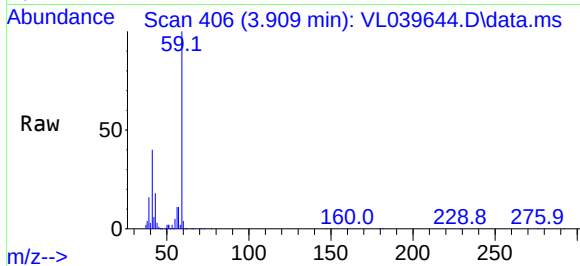




#17  
tert-Butyl alcohol  
Concen: 2.788 ppbv  
RT: 3.909 min Scan# 406  
Delta R.T. 0.017 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

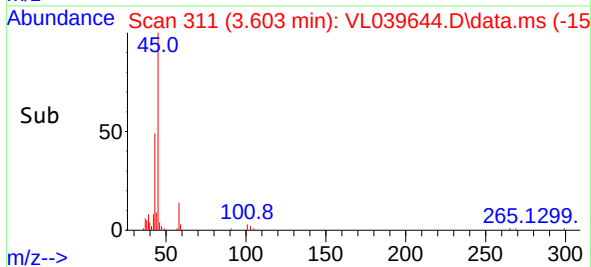
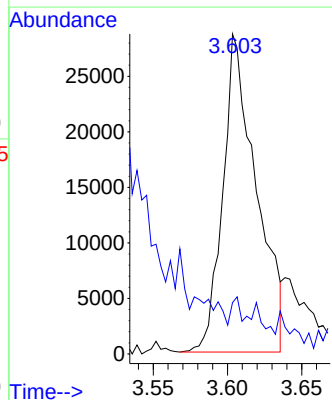
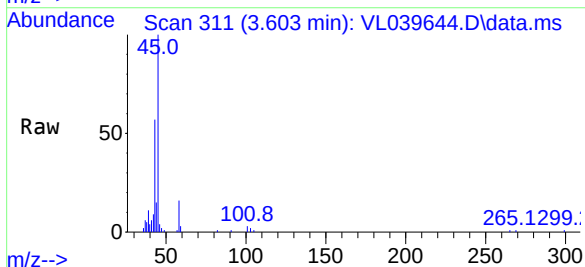
Instrument :  
MSVOA\_L  
ClientSampleId :

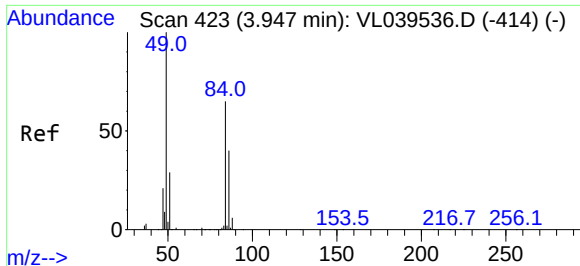
Tgt Ion: 59 Resp: 319762  
Ion Ratio Lower Upper  
59 100  
57 12.3 8.7 13.1



#19  
Isopropyl Alcohol  
Concen: 0.688 ppbv  
RT: 3.603 min Scan# 311  
Delta R.T. 0.013 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

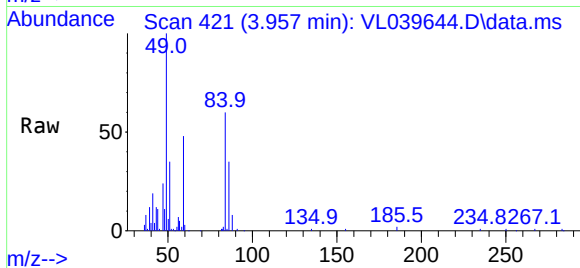
Tgt Ion: 45 Resp: 44842  
Ion Ratio Lower Upper  
45 100  
58 0.0 3.2 4.8#





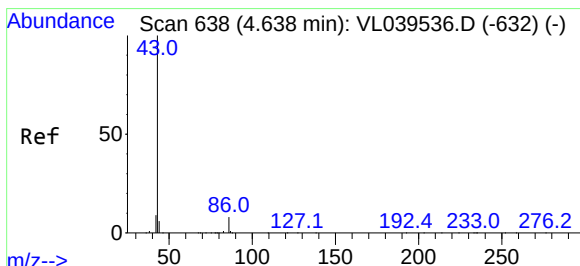
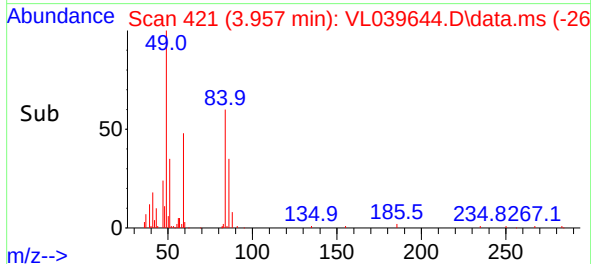
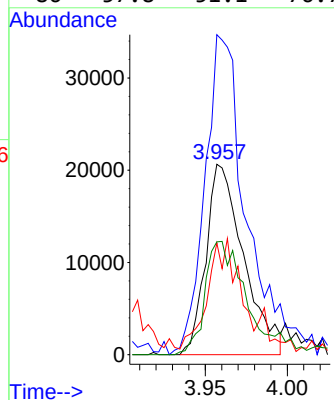
#20  
Methylene Chloride  
Concen: 0.558 ppbv  
RT: 3.957 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 84 Resp: 33004

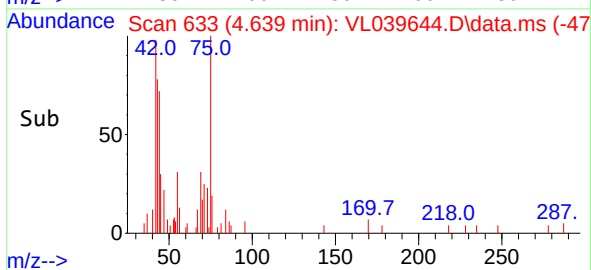
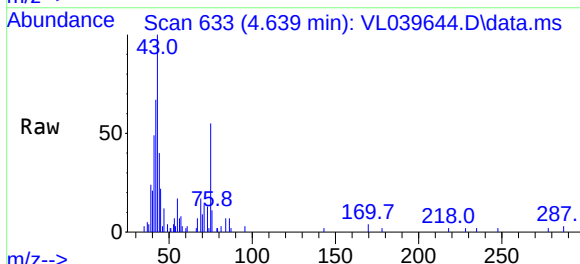
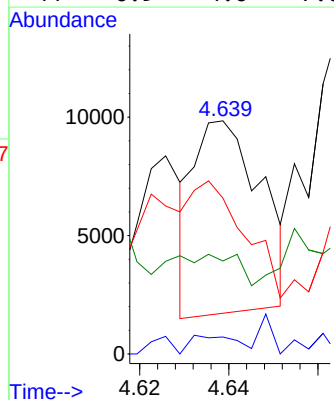
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 164.4 | 123.1 | 184.7 |
| 51  | 55.7  | 34.4  | 51.6# |
| 86  | 57.8  | 51.1  | 76.7  |

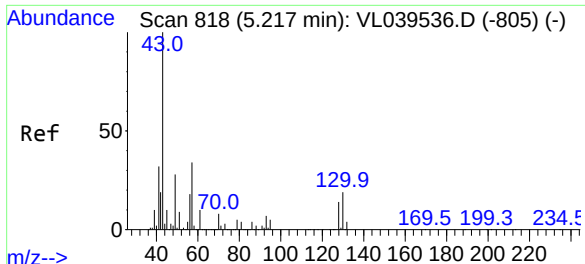


#23  
Vinyl Acetate  
Concen: 0.147 ppbv  
RT: 4.639 min Scan# 633  
Delta R.T. 0.001 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 8515

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 16.4  | 5.0   | 7.6#  |
| 42  | 96.3  | 7.7   | 11.5# |
| 44  | 6.9   | 4.6   | 7.0   |





#25

Ethyl Acetate

Concen: 0.107 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.017 min

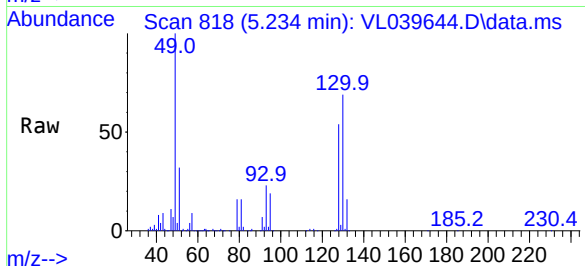
Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Instrument :

MSVOA\_L

ClientSampleId :



Tgt Ion: 43 Resp: 29700

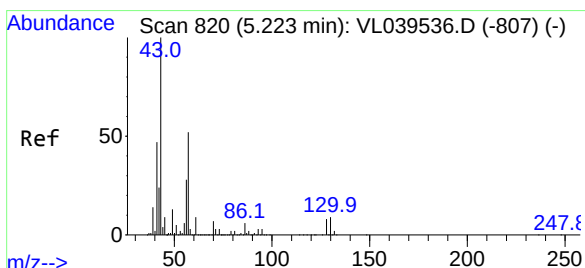
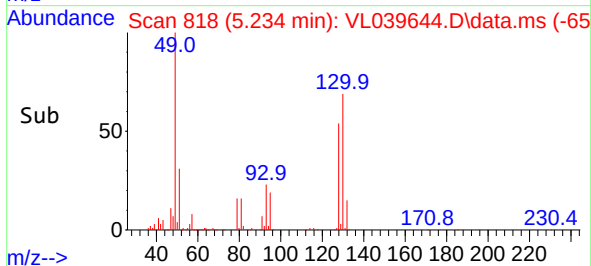
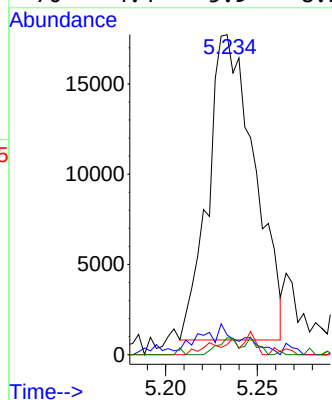
Ion Ratio Lower Upper

43 100

45 9.7 8.2 12.4

61 5.2 8.3 12.5#

70 4.4 5.9 8.9#



#26

Hexane

Concen: 0.144 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.010 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Tgt Ion: 57 Resp: 17016

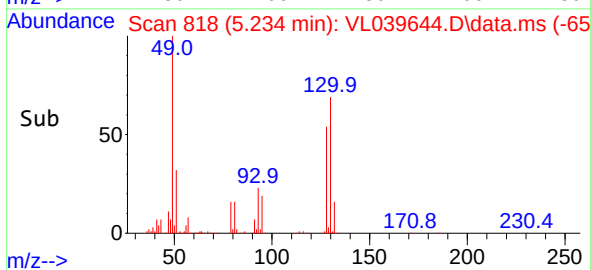
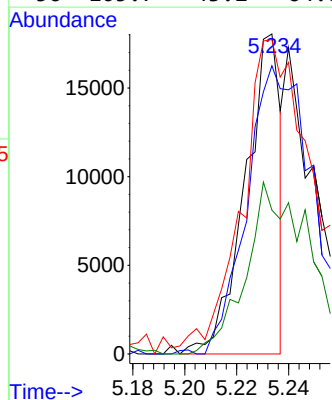
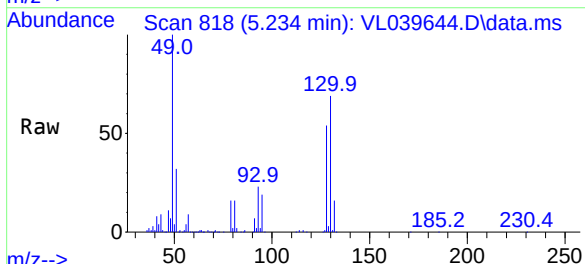
Ion Ratio Lower Upper

57 100

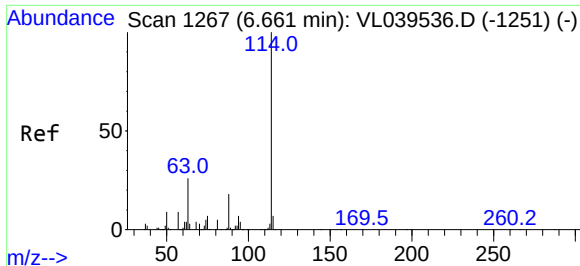
41 189.0 76.9 115.3#

43 213.7 191.0 286.6

56 105.7 43.2 64.8#



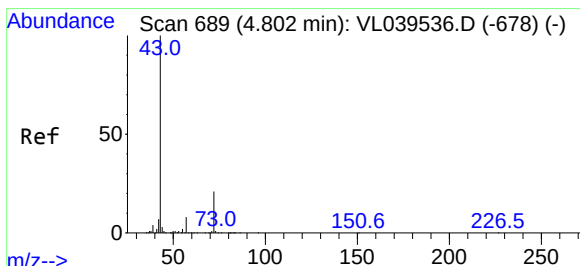
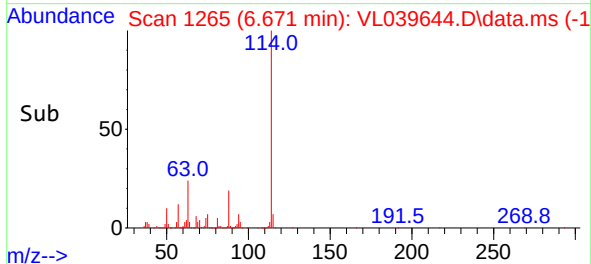
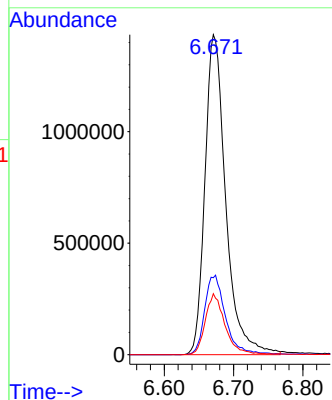
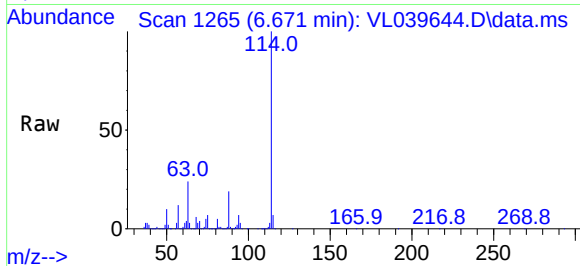




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.671 min Scan# 114  
Delta R.T. 0.010 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

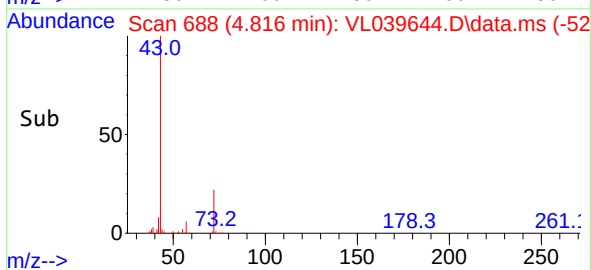
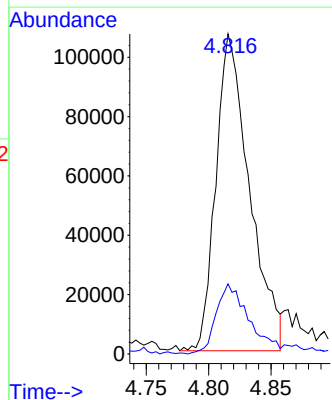
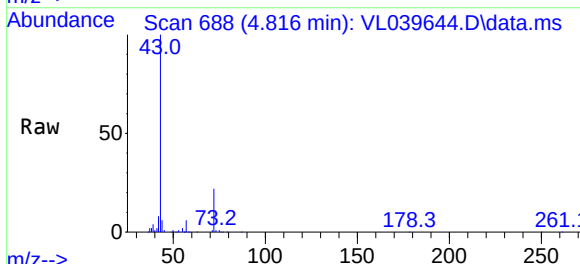
Instrument :  
MSVOA\_L  
ClientSampleId :

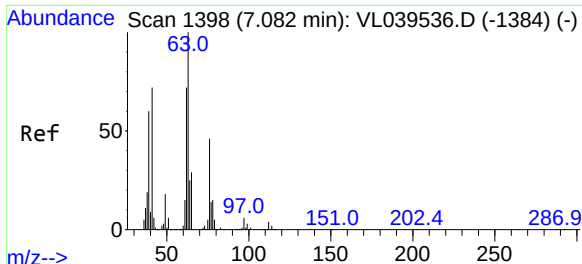
Tgt Ion:114 Resp: 2992624  
Ion Ratio Lower Upper  
114 100  
63 25.4 20.2 30.4  
88 18.4 14.5 21.7



#34  
2-Butanone  
Concen: 1.364 ppbv  
RT: 4.816 min Scan# 688  
Delta R.T. 0.013 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

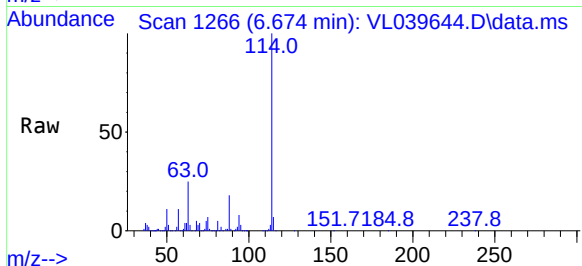
Tgt Ion: 43 Resp: 200466  
Ion Ratio Lower Upper  
43 100  
72 25.5 17.9 26.9





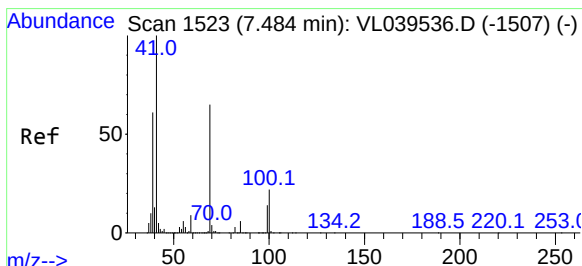
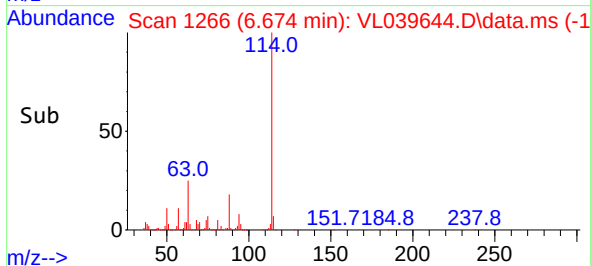
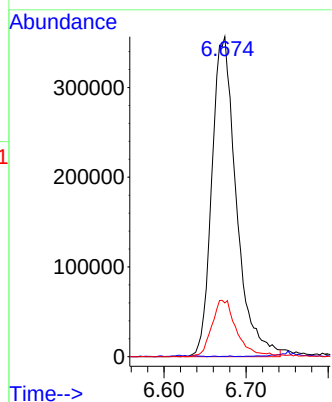
#39  
1,2-Dichloropropane  
Concen: 8.352 ppbv  
RT: 6.674 min Scan# 11  
Delta R.T. -0.408 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Instrument :  
MSVOA\_L  
ClientSampleId :



Tgt Ion: 63 Resp: 737923

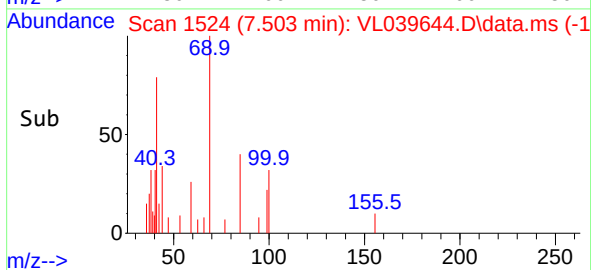
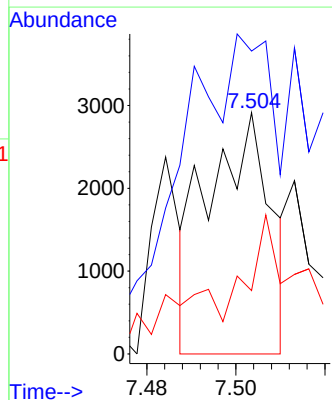
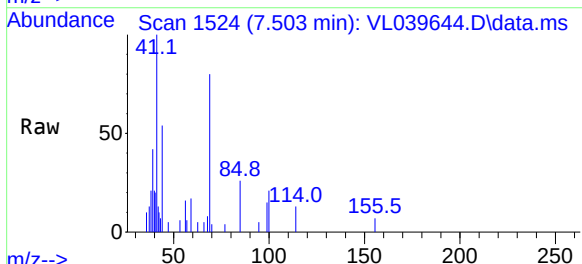
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 0.0   | 59.6  | 89.4# |
| 62  | 16.8  | 51.4  | 77.0# |

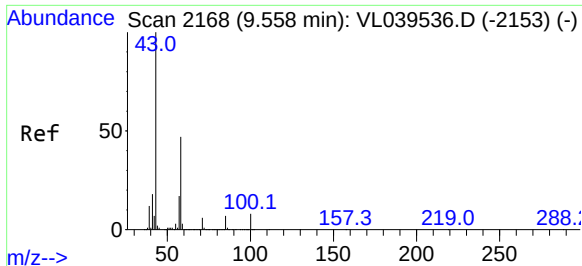


#43  
Methyl Methacrylate  
Concen: 0.034 ppbv  
RT: 7.503 min Scan# 1524  
Delta R.T. 0.020 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Tgt Ion: 69 Resp: 2842

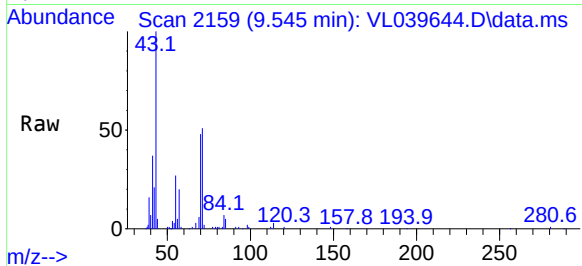
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 69  | 100   |       |        |
| 41  | 325.7 | 120.8 | 181.2# |
| 100 | 82.7  | 27.8  | 41.6#  |



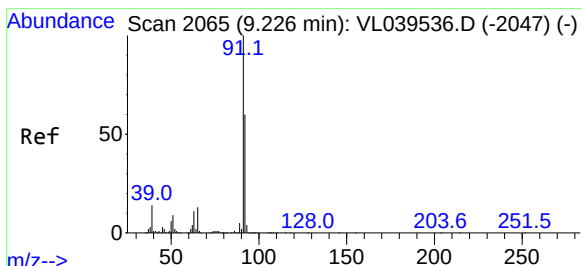
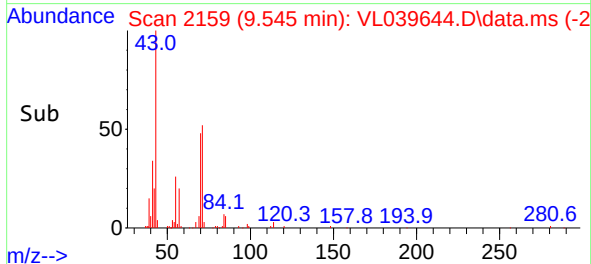
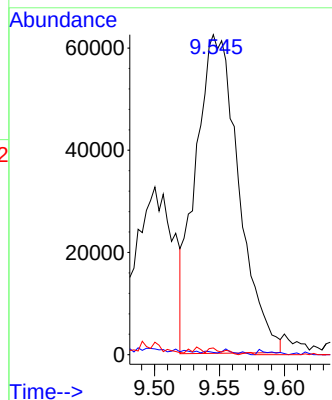


#51  
2-Hexanone  
Concen: 0.840 ppbv  
RT: 9.545 min Scan# 2168  
Delta R.T. -0.012 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Instrument :  
MSVOA\_L  
ClientSampleId :

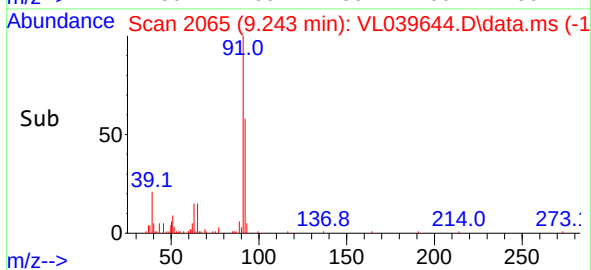
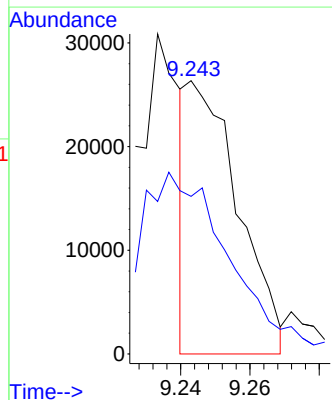
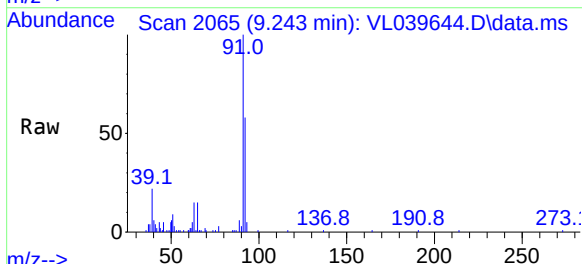


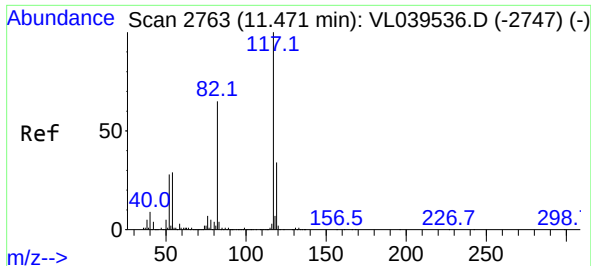
Tgt Ion: 43 Resp: 143655  
Ion Ratio Lower Upper  
43 100  
58 0.8 38.4 57.6#  
98 1.9 0.3 0.5#



#53  
Toluene  
Concen: 0.106 ppbv  
RT: 9.243 min Scan# 2065  
Delta R.T. 0.017 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Tgt Ion: 91 Resp: 27059  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.2 72.2#

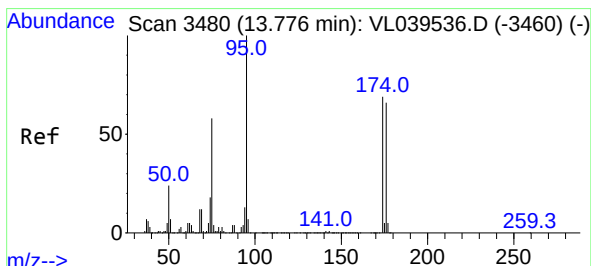
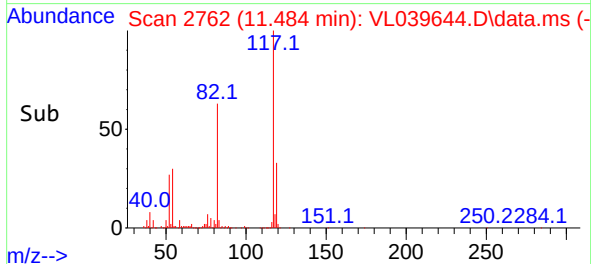
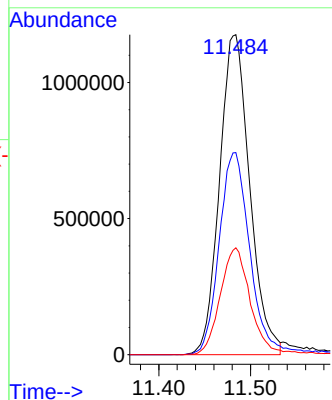
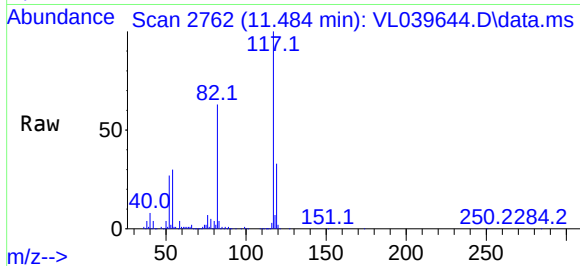




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.484 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Instrument :  
MSVOA\_L  
ClientSampleId :

Tgt Ion:117 Resp: 2689462  
Ion Ratio Lower Upper  
117 100  
82 65.8 50.8 76.2  
119 34.1 24.1 36.1



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.155 ppbv  
RT: 13.793 min Scan# 3480  
Delta R.T. 0.017 min  
Lab File: VL039644.D  
Acq: 21 Sep 2022 20:58

Tgt Ion: 95 Resp: 2038887  
Ion Ratio Lower Upper  
95 100  
174 71.9 55.9 83.9  
175 5.5 4.2 6.4

