

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070924\  
 Data File : VX042251.D  
 Acq On : 09 Jul 2024 16:49  
 Operator : JC/MD  
 Sample : P3188-02RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jul 10 04:59:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061424W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 15 04:02:59 2024  
 Response via : Initial Calibration

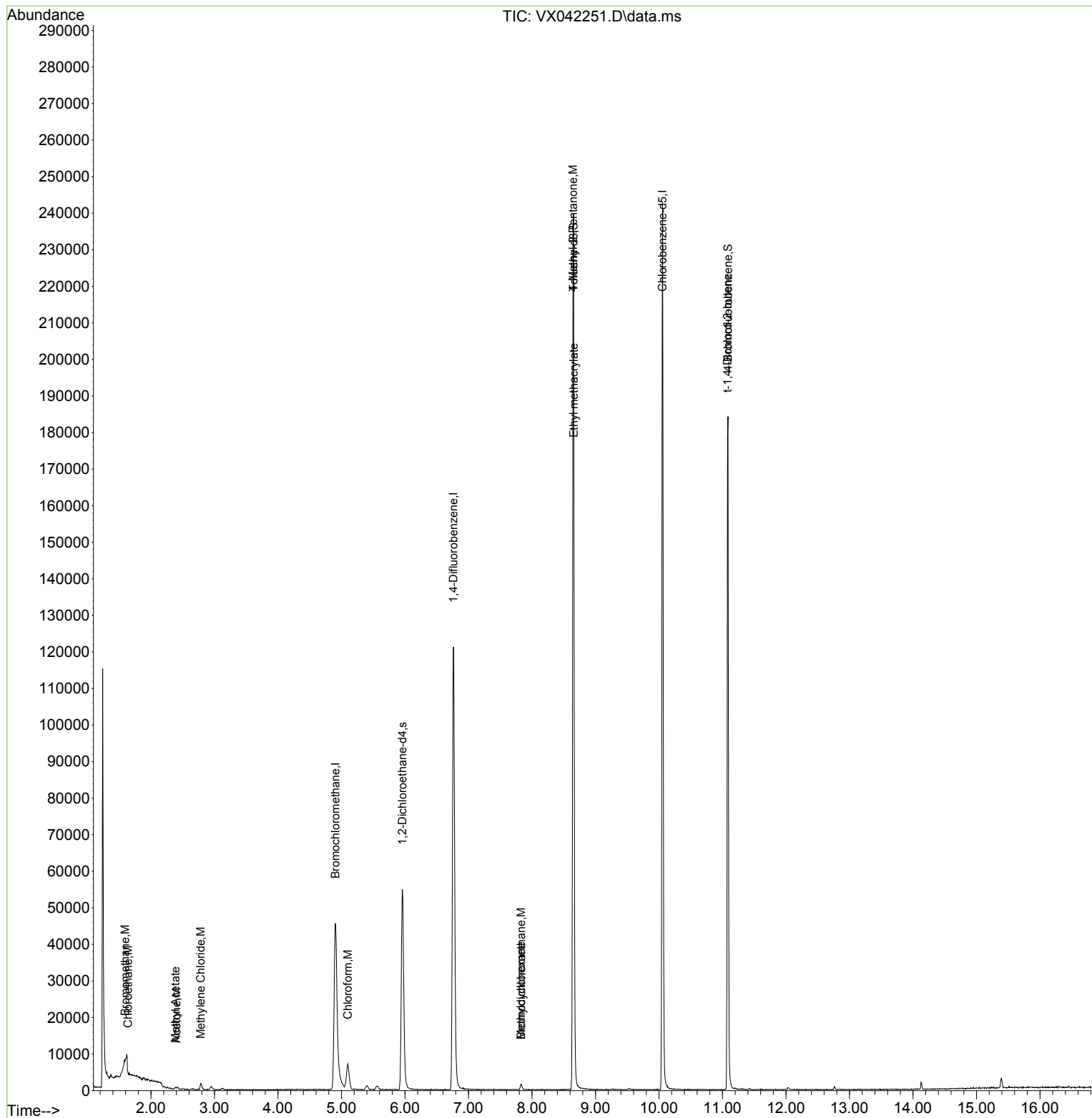
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.904  | 128   | 24338    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 136175   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 121339   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 52728    | 31.472   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 104.900% |
| 60) 4-Bromofluorobenzene    | 11.085 | 95    | 50584    | 26.932   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 89.767%  |
| 63) Toluene-d8              | 8.653  | 98    | 152161   | 29.311   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 97.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 5) Bromomethane             | 1.593  | 94    | 205      | 0.223    | ug/l # | 45       |
| 6) Chloroethane             | 1.636  | 64    | 508      | 0.690    | ug/l # | 53       |
| 12) Methyl Acetate          | 2.386  | 43    | 553      | 0.292    | ug/l # | 51       |
| 15) Acetone                 | 2.398  | 58    | 115      | 0.447    | ug/l # | 1        |
| 18) Methylene Chloride      | 2.782  | 84    | 888      | 0.520    | ug/l   | 89       |
| 25) Chloroform              | 5.099  | 83    | 8822     | 3.273    | ug/l   | 97       |
| 38) Methylcyclohexane       | 7.830  | 83    | 1290     | 0.548    | ug/l # | 18       |
| 41) Bromodichloromethane    | 7.830  | 83    | 1322     | 0.707    | ug/l   | 90       |
| 51) Ethyl methacrylate      | 8.659  | 69    | 494      | 0.205    | ug/l # | 81       |
| 58) 4-Methyl-2-Pentanone    | 8.647  | 43    | 451      | 0.207    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 23240    | 33.110   | ug/l # | 7        |
| -----                       |        |       |          |          |        |          |

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

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Sample : P3188-02RE  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

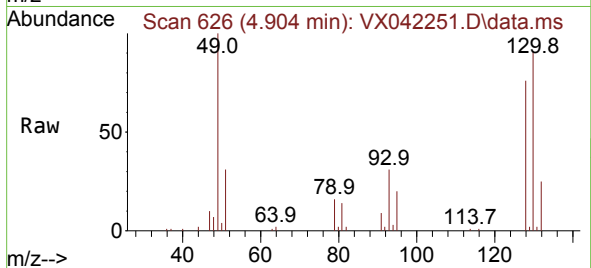
Quant Time: Jul 10 04:59:07 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061424W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Jun 15 04:02:59 2024  
Response via : Initial Calibration



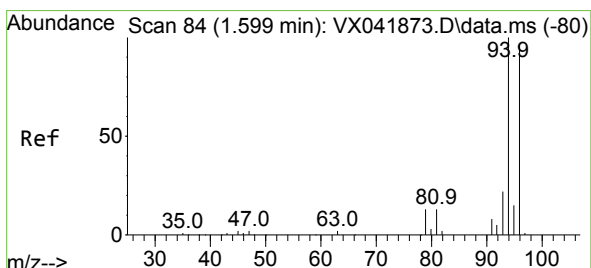
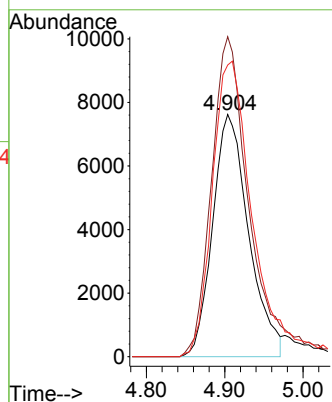
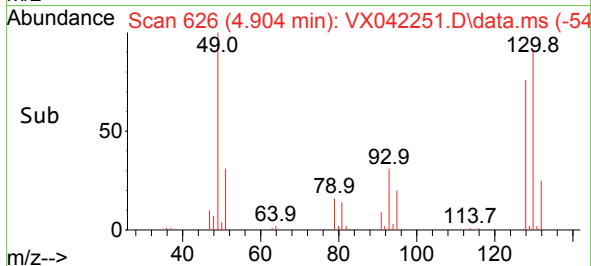


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.904 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :

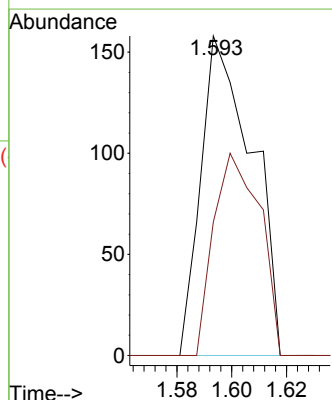
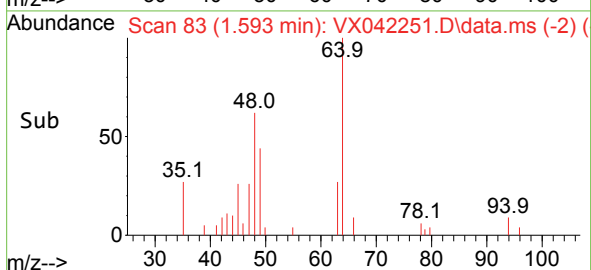
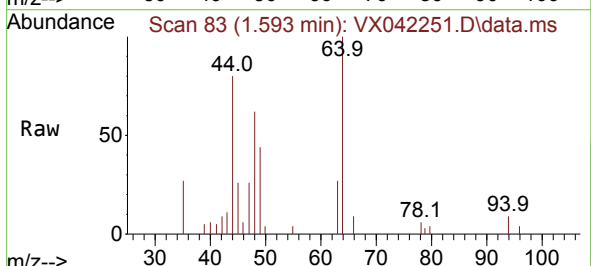


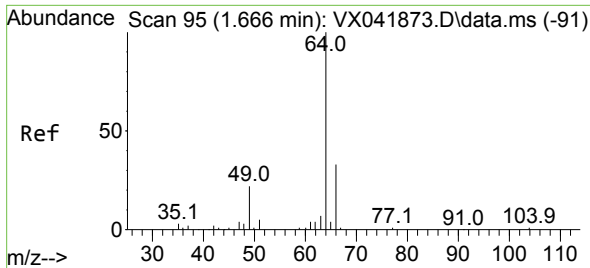
Tgt Ion:128 Resp: 24338  
Ion Ratio Lower Upper  
128 100  
49 139.6 0.0 338.5  
130 135.7 0.0 324.5



#5  
Bromomethane  
Concen: 0.223 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Tgt Ion: 94 Resp: 205  
Ion Ratio Lower Upper  
94 100  
96 41.8 76.6 115.0#

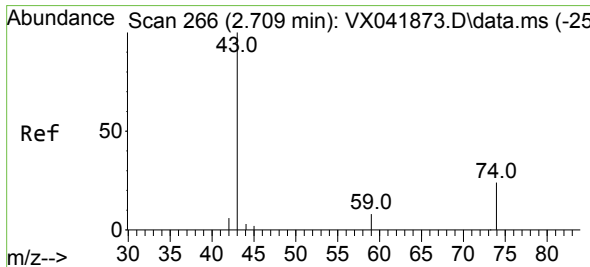
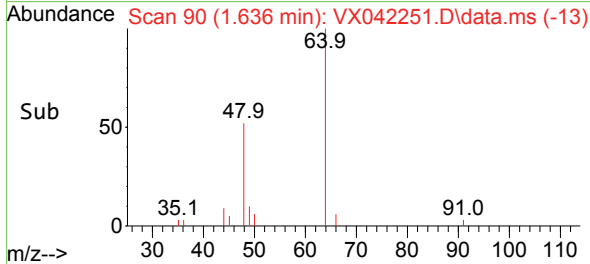
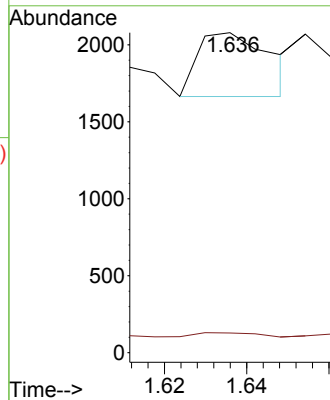
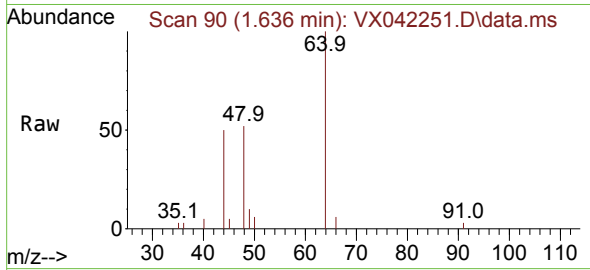




#6  
Chloroethane  
Concen: 0.690 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. -0.030 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

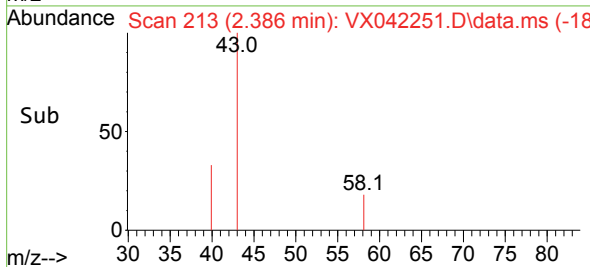
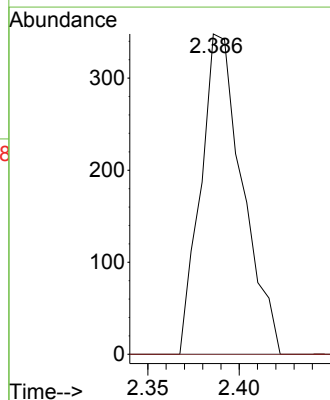
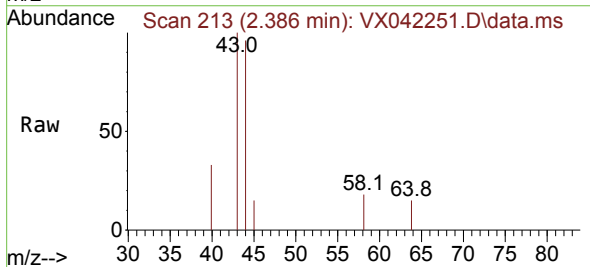
Instrument :  
MSVOA\_X  
ClientSampleId :

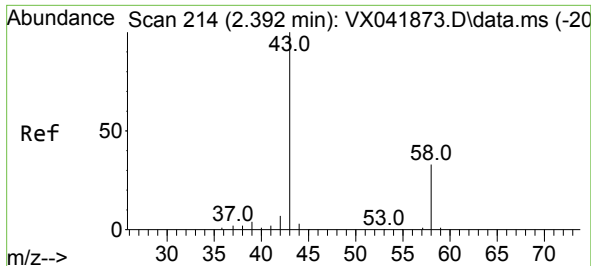
Tgt Ion: 64 Resp: 508  
Ion Ratio Lower Upper  
64 100  
66 6.3 26.4 39.6#



#12  
Methyl Acetate  
Concen: 0.292 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.323 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Tgt Ion: 43 Resp: 553  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.2#





#15

Acetone

Concen: 0.447 ug/l

RT: 2.398 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX042251.D

Acq: 09 Jul 2024 16:49

Instrument :

MSVOA\_X

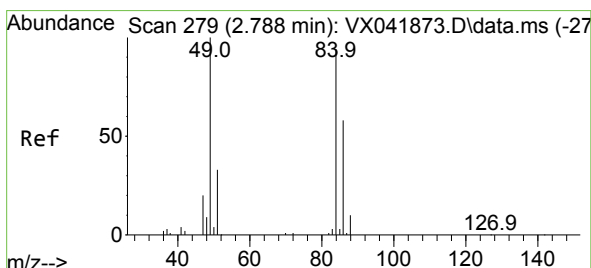
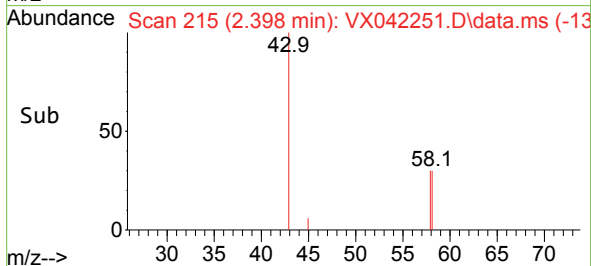
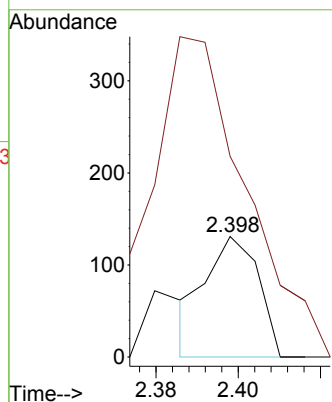
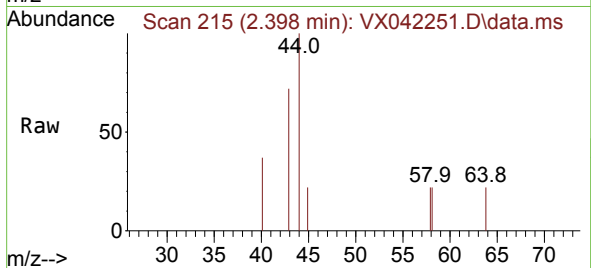
ClientSampleId :

Tgt Ion: 58 Resp: 115

Ion Ratio Lower Upper

58 100

43 106.9 243.4 365.2#



#18

Methylene Chloride

Concen: 0.520 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX042251.D

Acq: 09 Jul 2024 16:49

Tgt Ion: 84 Resp: 888

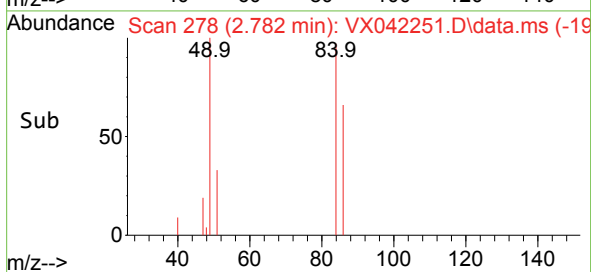
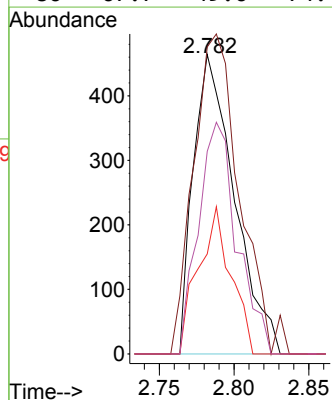
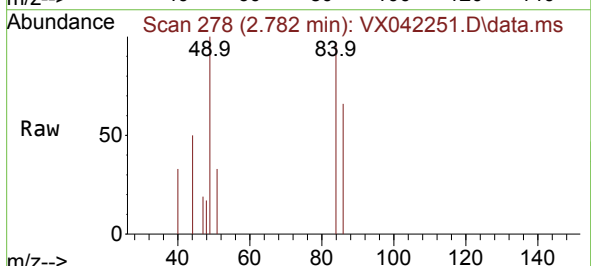
Ion Ratio Lower Upper

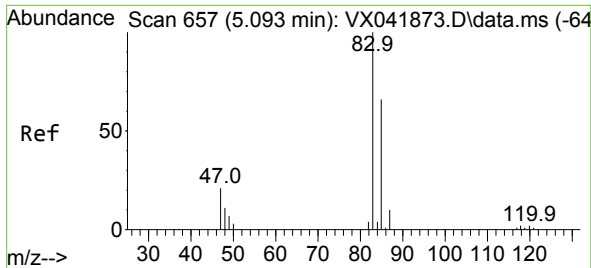
84 100

49 89.7 85.3 127.9

51 33.4 28.5 42.7

86 67.7 49.6 74.4

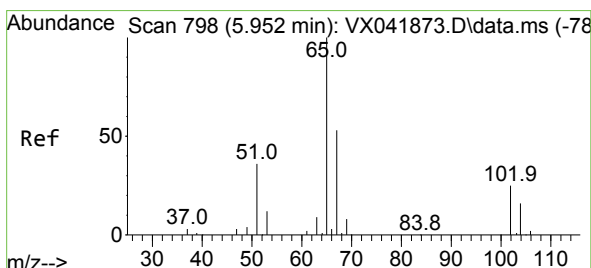
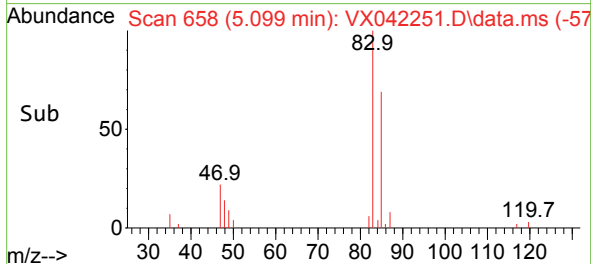
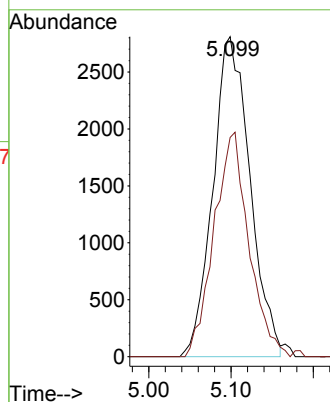
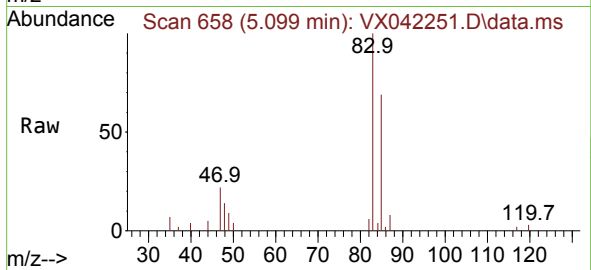




#25  
Chloroform  
Concen: 3.273 ug/l  
RT: 5.099 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

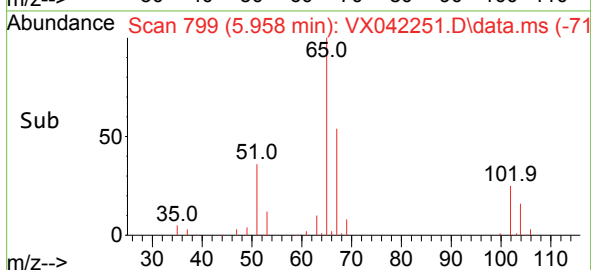
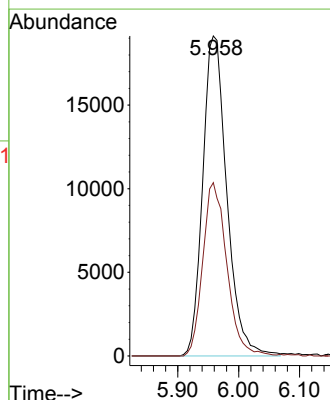
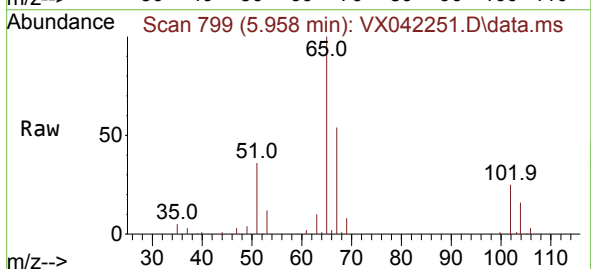
Instrument :  
MSVOA\_X  
ClientSampleId :

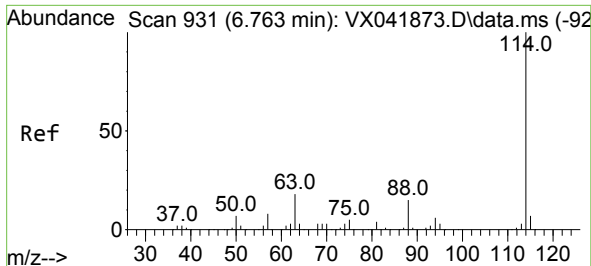
Tgt Ion: 83 Resp: 8822  
Ion Ratio Lower Upper  
83 100  
85 68.5 52.7 79.1



#27  
1,2-Dichloroethane-d4  
Concen: 31.472 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

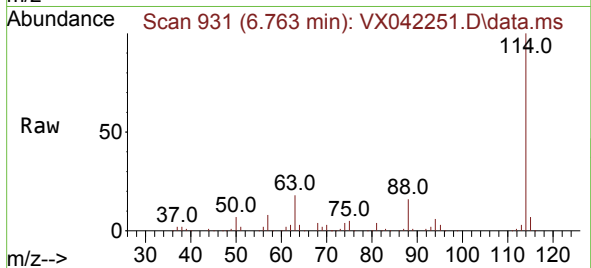
Tgt Ion: 65 Resp: 52728  
Ion Ratio Lower Upper  
65 100  
67 53.8 43.4 65.0



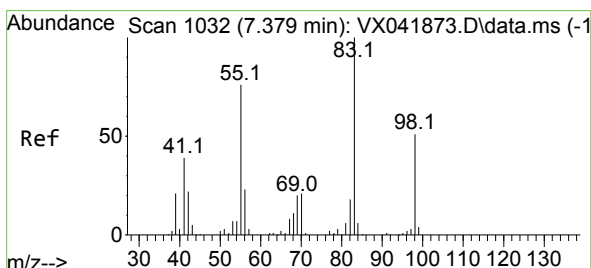
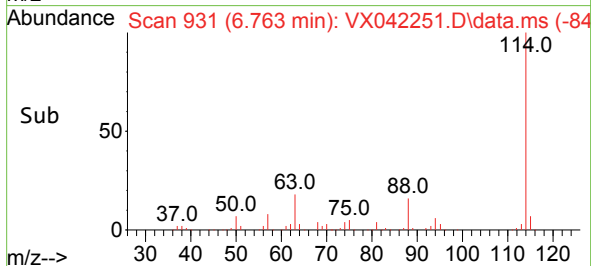
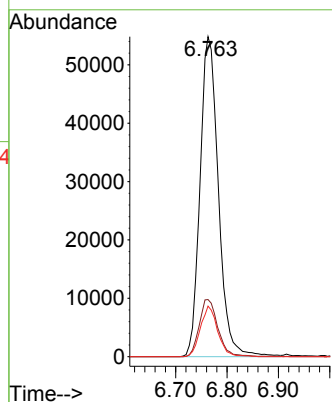


#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :

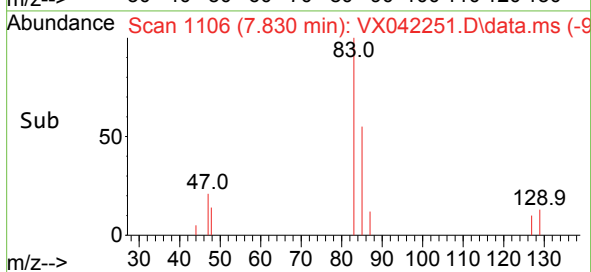
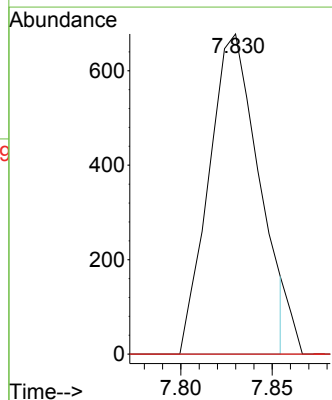
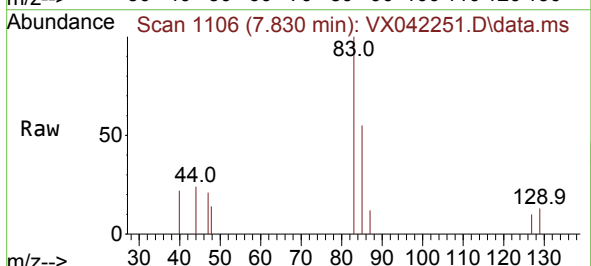


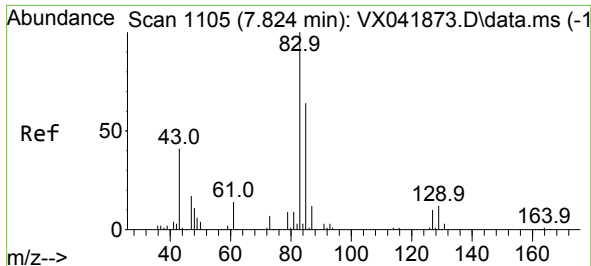
Tgt Ion:114 Resp: 136175  
Ion Ratio Lower Upper  
114 100  
63 18.1 14.6 21.8  
88 14.7 11.8 17.8



#38  
Methylcyclohexane  
Concen: 0.548 ug/l  
RT: 7.830 min Scan# 1106  
Delta R.T. 0.451 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

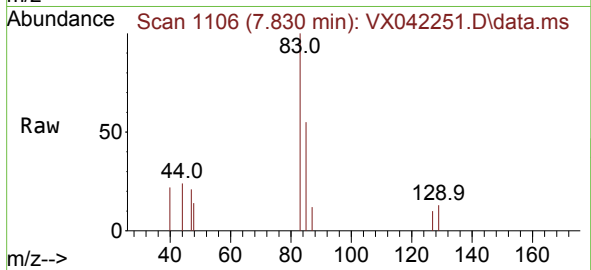
Tgt Ion: 83 Resp: 1290  
Ion Ratio Lower Upper  
83 100  
55 0.0 37.3 111.9#  
98 0.0 24.8 74.4#





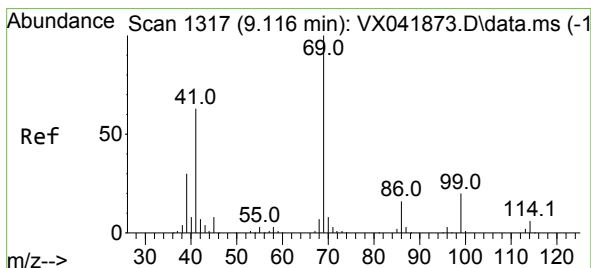
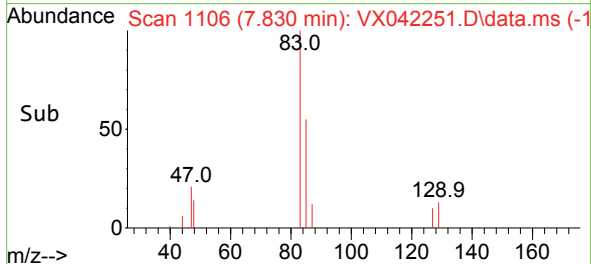
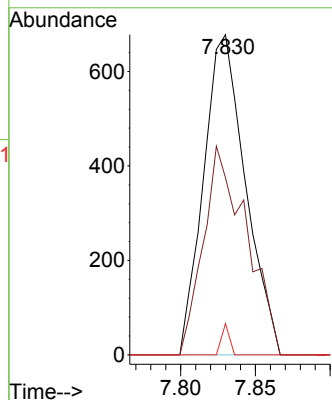
#41  
Bromodichloromethane  
Concen: 0.707 ug/l  
RT: 7.830 min Scan# 1106  
Delta R.T. 0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 83 Resp: 1322

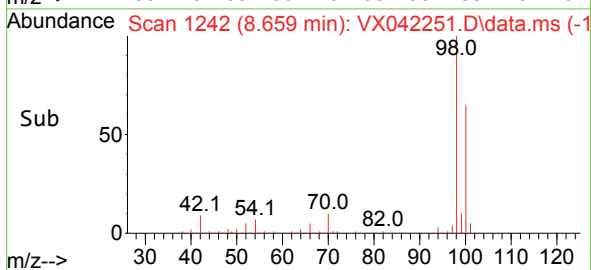
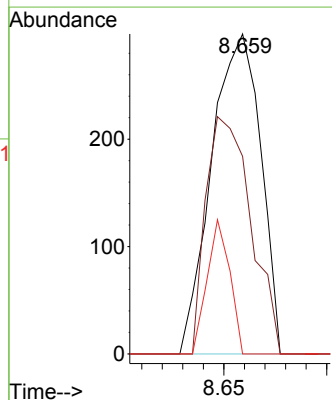
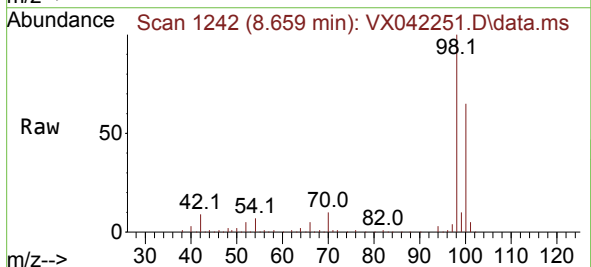
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 55.3  | 51.1  | 76.7  |
| 127 | 9.7   | 8.1   | 12.1  |

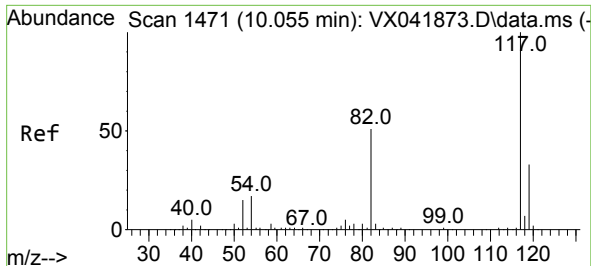


#51  
Ethyl methacrylate  
Concen: 0.205 ug/l  
RT: 8.659 min Scan# 1242  
Delta R.T. -0.457 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Tgt Ion: 69 Resp: 494

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 61.7  | 31.6  | 94.7  |
| 39  | 0.0   | 15.3  | 45.8  |





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX042251.D

Acq: 09 Jul 2024 16:49

Instrument :

MSVOA\_X

ClientSampleId :

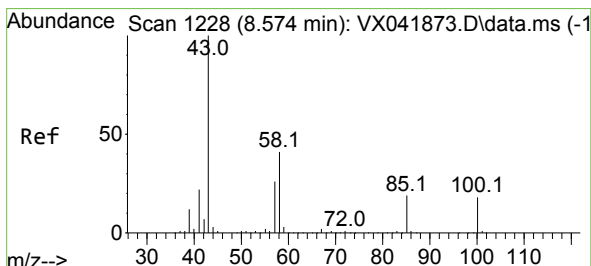
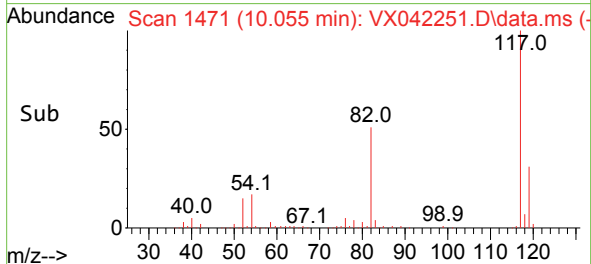
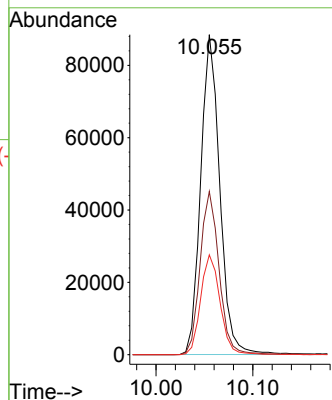
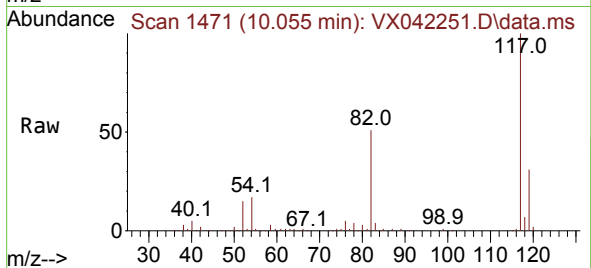
Tgt Ion:117 Resp: 121339

Ion Ratio Lower Upper

117 100

82 50.9 41.1 61.7

119 31.7 26.1 39.1



#58

4-Methyl-2-Pentanone

Concen: 0.207 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX042251.D

Acq: 09 Jul 2024 16:49

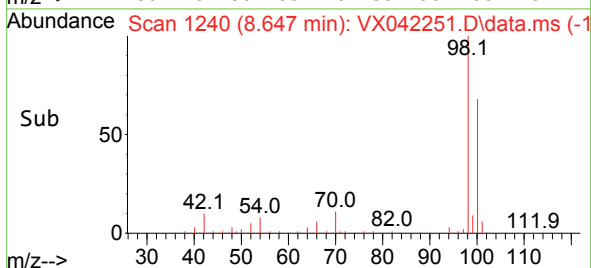
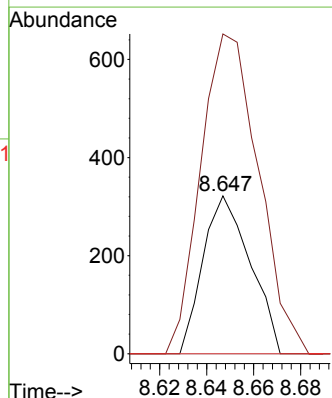
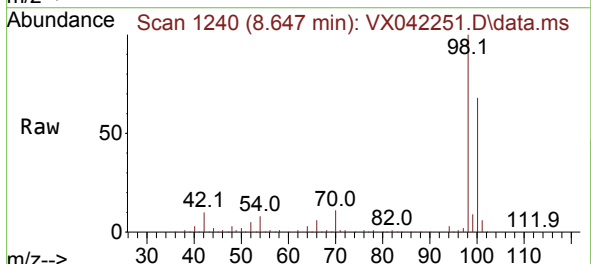
Tgt Ion: 43 Resp: 451

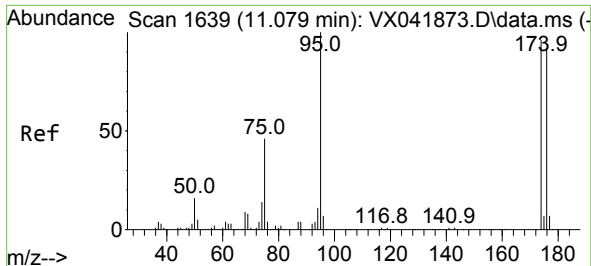
Ion Ratio Lower Upper

43 100

58 247.9 33.2 49.8#

85 0.0 15.5 23.3#

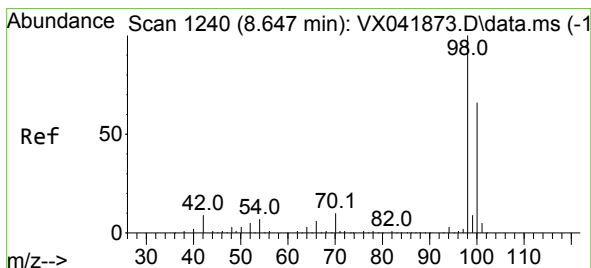
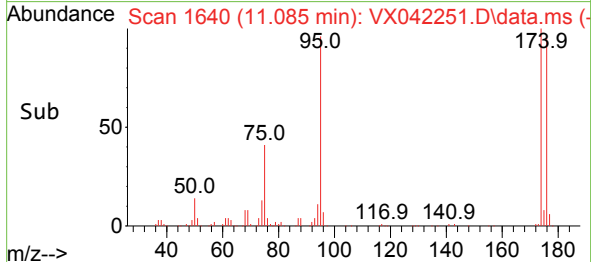
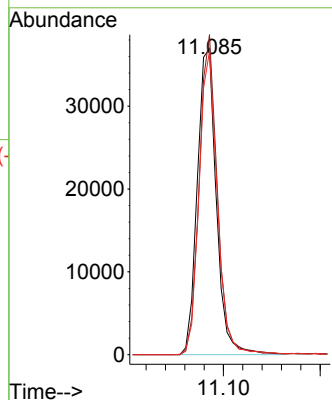
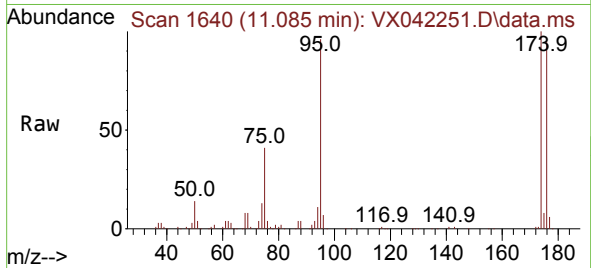




#60  
4-Bromofluorobenzene  
Concen: 26.932 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

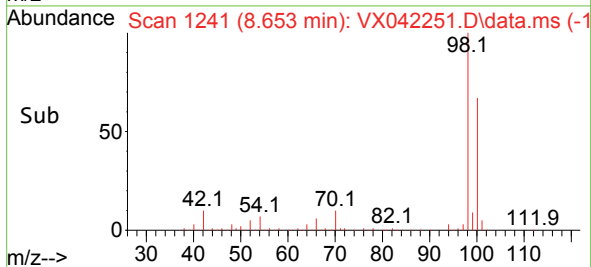
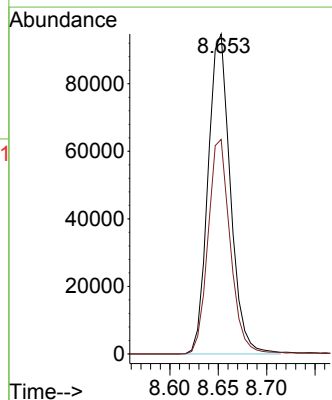
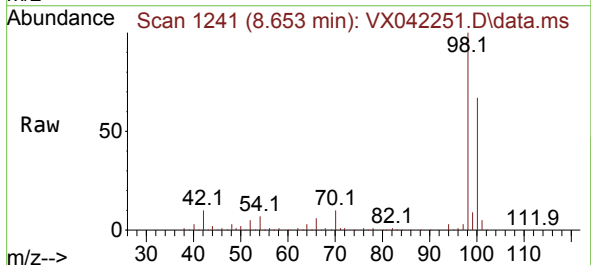
Instrument :  
MSVOA\_X  
ClientSampleId :

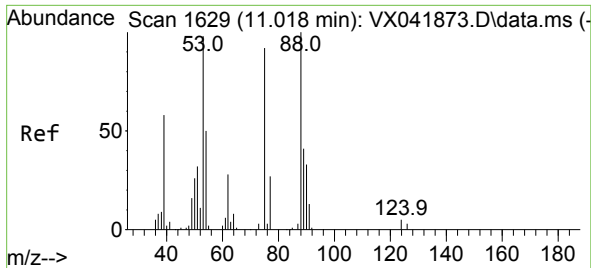
Tgt Ion: 95 Resp: 50584  
Ion Ratio Lower Upper  
95 100  
174 99.3 78.9 118.3  
176 94.7 77.1 115.7



#63  
Toluene-d8  
Concen: 29.311 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.006 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

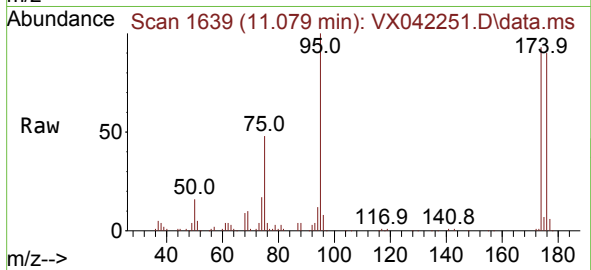
Tgt Ion: 98 Resp: 152161  
Ion Ratio Lower Upper  
98 100  
100 66.7 52.7 79.1





#77  
t-1,4-Dichloro-2-butene  
Concen: 33.110 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX042251.D  
Acq: 09 Jul 2024 16:49

Instrument :  
MSVOA\_X  
ClientSampleId :



| Tgt Ion: | 75    | Resp: | 23240  |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 53.4  | 160.2# |
| 89       | 0.0   | 22.5  | 67.5#  |

