

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041122\  
 Data File : VL038887.D  
 Acq On : 12 Apr 2022 9:56  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Apr 13 06:42:56 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1095895  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2984389  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3543302  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2270745  | 8.45     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 84.50% |

| Target Compounds               |      |     |         |        | Ovalue     |
|--------------------------------|------|-----|---------|--------|------------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2035047 | 13.092 | ppbv 99    |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 1283280 | 9.595  | ppbv 99    |
| 4) Chloromethane               | 3.14 | 50  | 661242  | 9.548  | ppbv 96    |
| 5) Vinyl Chloride              | 3.26 | 62  | 612857  | 9.577  | ppbv 96    |
| 6) Bromomethane                | 3.48 | 94  | 295530  | 9.545  | ppbv 98    |
| 7) Chloroethane                | 3.56 | 64  | 202009  | 9.467  | ppbv 90    |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 1415240 | 9.746  | ppbv 98    |
| 9) Propene                     | 3.02 | 41  | 676433  | 9.559  | ppbv 100   |
| 10) Heptane                    | 8.12 | 43  | 1658096 | 9.303  | ppbv 98    |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 1326736 | 10.622 | ppbv 99    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 998771  | 10.439 | ppbv 96    |
| 13) Ethanol                    | 3.60 | 45  | 28844   | 6.707  | ppbv # 100 |
| 14) Bromoethene                | 3.74 | 108 | 419949  | 9.980  | ppbv 97    |
| 15) Acetone                    | 3.85 | 43  | 1087848 | 9.971  | ppbv 97    |
| 16) 1,3-Butadiene              | 3.33 | 39  | 604741  | 9.695  | ppbv 97    |
| 17) tert-Butyl alcohol         | 4.28 | 59  | 710407  | 7.261  | ppbv 99    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 457320  | 10.485 | ppbv 97    |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 458857  | 8.229  | ppbv # 100 |
| 20) Methylene Chloride         | 4.34 | 84  | 361622  | 9.139  | ppbv 94    |
| 21) Allyl Chloride             | 4.41 | 41  | 773013  | 9.463  | ppbv 99    |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 469127  | 10.623 | ppbv 97    |
| 23) Vinyl Acetate              | 5.07 | 43  | 1105428 | 10.404 | ppbv 99    |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 950972  | 9.904  | ppbv 99    |
| 25) Ethyl Acetate              | 5.67 | 43  | 2695889 | 9.738  | ppbv 100   |
| 26) Hexane                     | 5.69 | 57  | 1185678 | 9.409  | ppbv 98    |
| 27) Carbon Disulfide           | 4.55 | 76  | 1194003 | 10.332 | ppbv 98    |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 896090  | 9.207  | ppbv 100   |
| 29) Chloroform                 | 5.75 | 83  | 1764143 | 10.006 | ppbv 95    |
| 30) Cyclohexane                | 7.13 | 84  | 1029112 | 9.266  | ppbv 98    |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1157124 | 9.987  | ppbv 100   |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 1730097 | 9.740  | ppbv 99    |
| 34) 2-Butanone                 | 5.24 | 43  | 1147619 | 9.732  | ppbv 99    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 1761836 | 9.847  | ppbv 98    |
| 36) Benzene                    | 6.89 | 78  | 2538073 | 9.348  | ppbv 98    |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 1294310 | 10.427 | ppbv 98    |
| 38) Trichloroethene            | 7.83 | 130 | 1002233 | 8.997  | ppbv 96    |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 973394  | 9.374  | ppbv 98    |
| 40) 1,4-Dioxane                | 7.83 | 88  | 321594  | 9.120  | ppbv # 100 |
| 41) Tetrahydrofuran            | 6.05 | 42  | 1071390 | 9.566  | ppbv 99    |
| 42) Bromodichloromethane       | 7.79 | 83  | 1963895 | 10.019 | ppbv 99    |
| 43) Methyl Methacrylate        | 8.01 | 69  | 1065180 | 10.244 | ppbv 99    |

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
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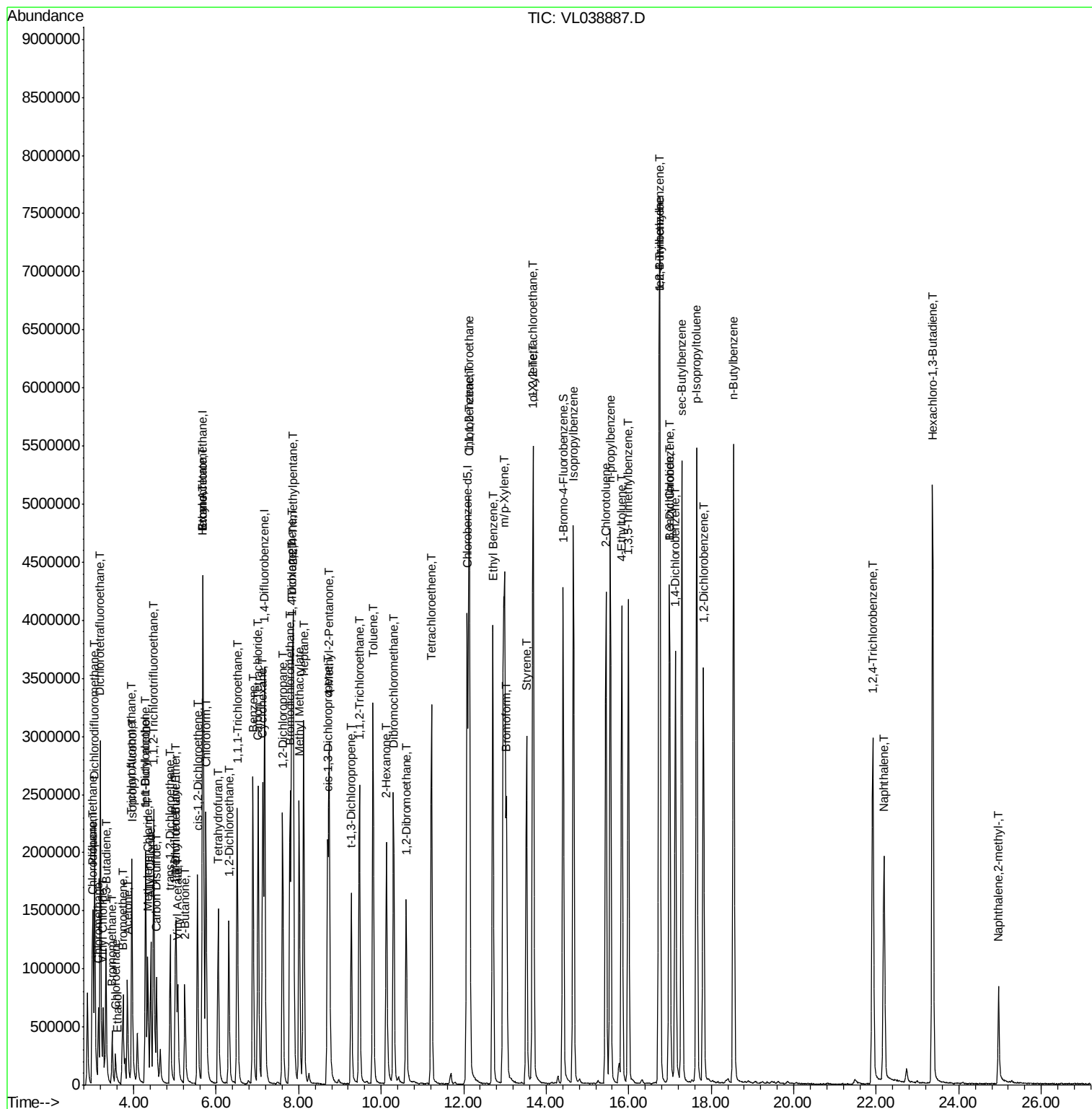
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4202134  | 9.142  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1065034  | 9.795  | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1375183  | 9.593  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1033024  | 9.708  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.30 | 129  | 1674478  | 10.041 | ppbv   | 99       |
| 49) Bromoform                 | 13.03 | 173  | 1356816  | 10.272 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2645037  | 9.972  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.12 | 43   | 2001215  | 10.013 | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 850545   | 8.969  | ppbv   | 96       |
| 53) Toluene                   | 9.80  | 91   | 2956811  | 9.434  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1486181  | 10.055 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1153415  | 7.428  | ppbv # | 62       |
| 57) Chlorobenzene             | 12.14 | 112  | 2061916  | 7.105  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.71 | 91   | 3953788  | 7.467  | ppbv   | 96       |
| 59) m/p-Xylene                | 12.99 | 91   | 3750364  | 8.431  | ppbv # | 55       |
| 60) o-Xylene                  | 13.69 | 91   | 3079603  | 7.399  | ppbv   | 95       |
| 61) Styrene                   | 13.52 | 104  | 1932535  | 7.621  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 4515539  | 7.228  | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 1916393  | 7.269  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.55 | 120  | 1172511  | 7.228  | ppbv   | 88       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 3843977  | 6.935  | ppbv   | 97       |
| 66) Benzyl Chloride           | 16.99 | 91   | 562109   | 4.981  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 5627736  | 7.235  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 4659414  | 7.296  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 4991734  | 7.759  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 3535946  | 7.527  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 3751659  | 7.548  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 3364337  | 7.535  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 3475068  | 7.362  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2023708  | 7.384  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 1960821  | 7.264  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 1964182  | 7.271  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 1360728  | 6.375  | ppbv   | 100      |
| 79) Naphthalene               | 22.19 | 128  | 2721466  | 7.708  | ppbv   | 96       |
| 80) Naphthalene, 2-methyl-    | 24.97 | 142  | 560973   | 6.448  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 1518339  | 7.348  | ppbv   | 99       |

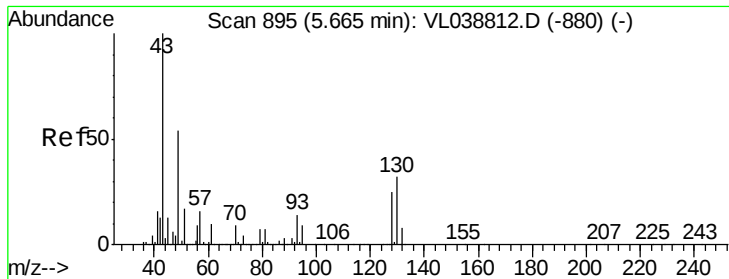
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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VSTDCCC010EC

Quant Time: Apr 13 06:42:56 2022  
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QLast Update : Wed Apr 06 06:12:53 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA\_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 12 Apr 2022 9:56

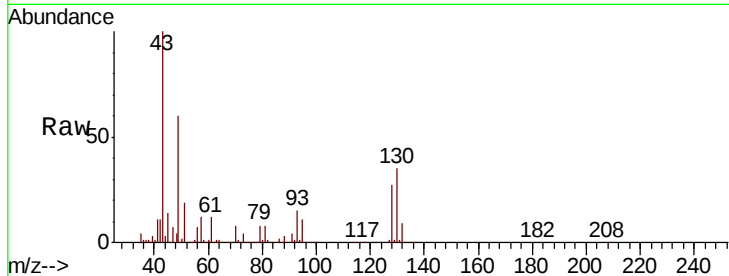
Tot Ion: 49 Resp: 1095895

Ion Ratio Lower Upper

49 100

128 48.3 24.1 72.3

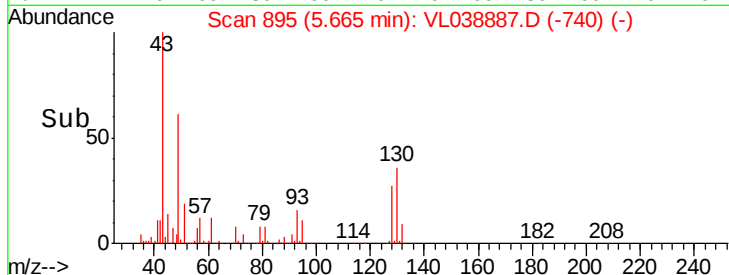
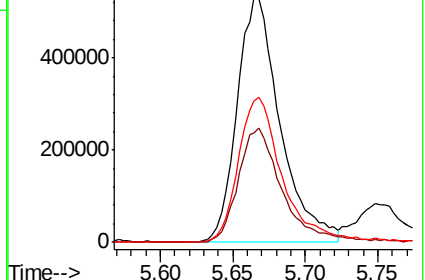
130 61.6 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 13.092 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038887.D

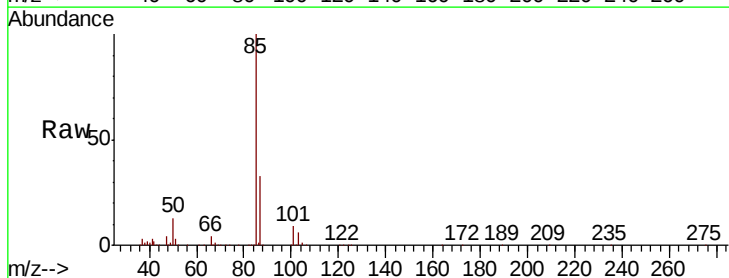
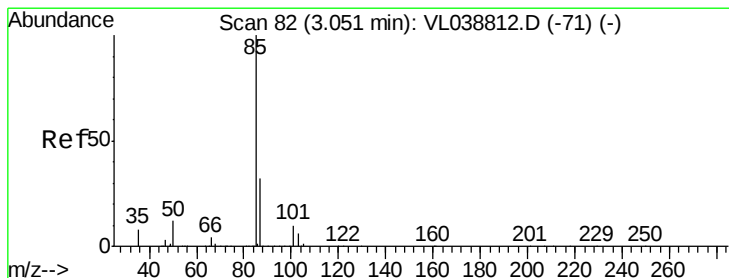
Acq: 12 Apr 2022 9:56

Tgt Ion: 85 Resp: 2035047

Ion Ratio Lower Upper

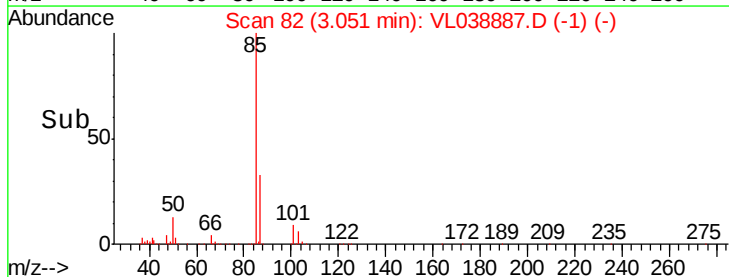
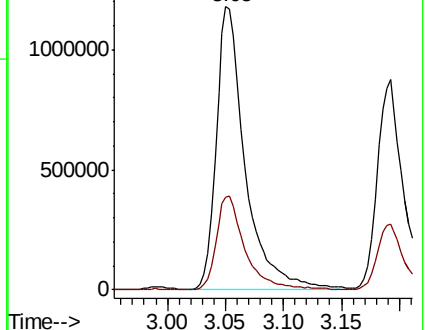
85 100

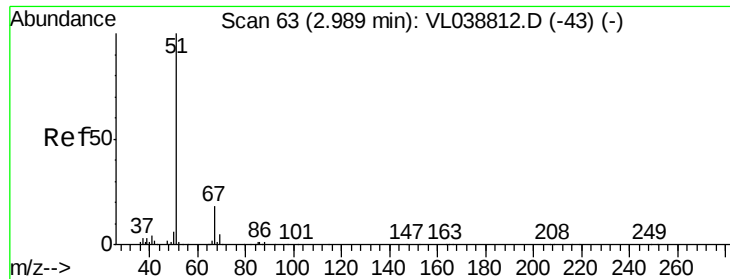
87 32.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

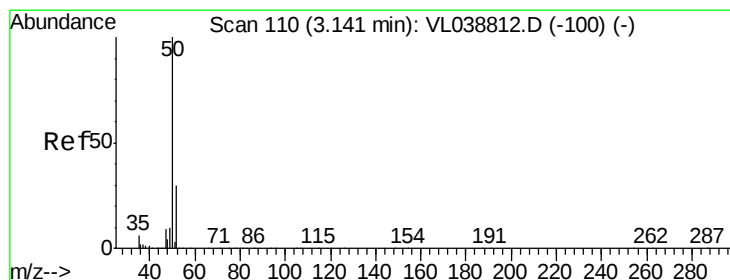
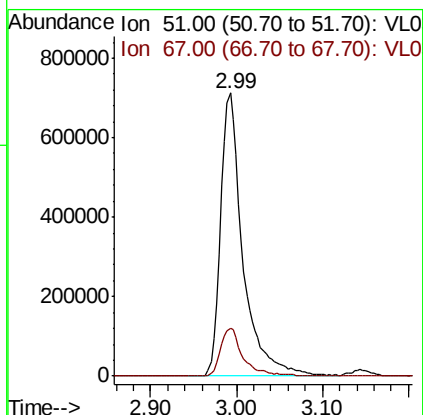
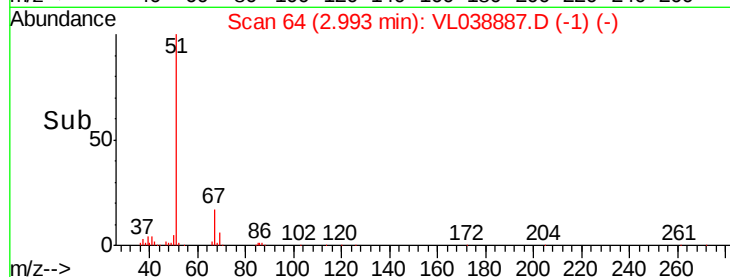
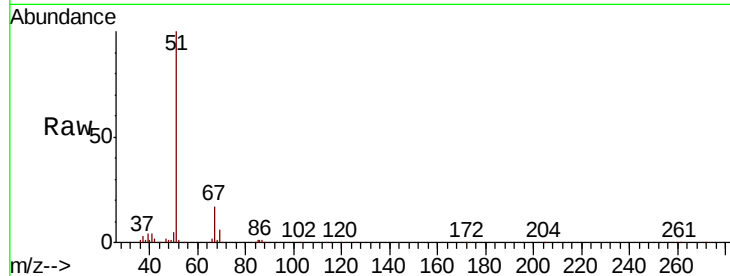
Ion 87.00 (86.70 to 87.70): VL0





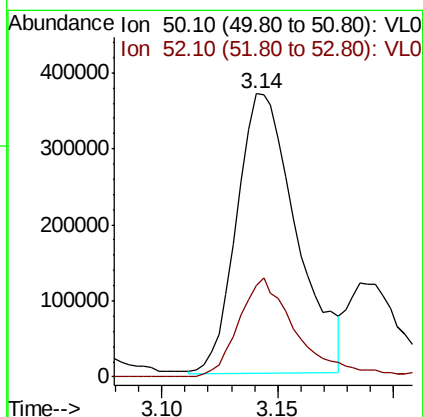
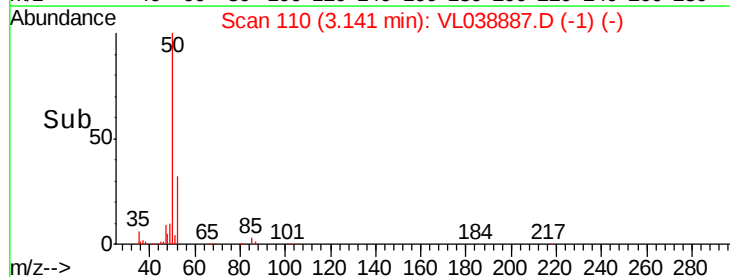
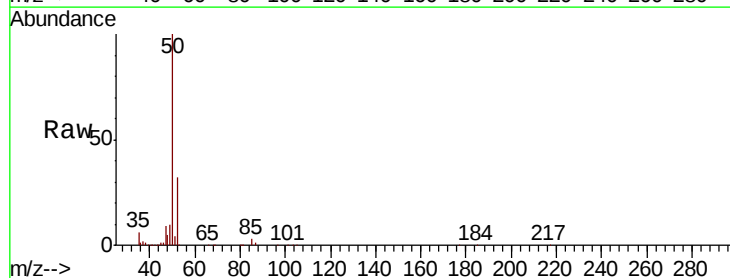
#3  
 Chlorodifluoromethane  
 Concen: 9.595 ppbv  
 RT: 2.99  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:58

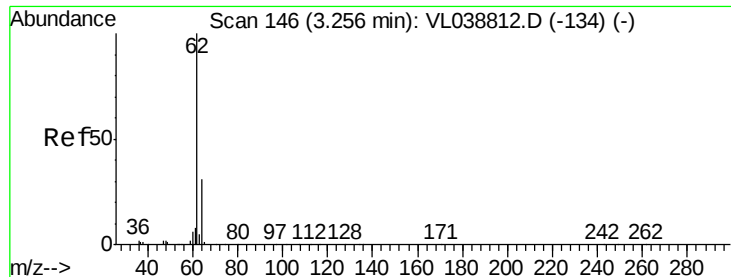
Tot Ion: 51 Resp: 1283280  
 Ion Ratio Lower Upper  
 51 100  
 67 17.2 13.4 20.0



#4  
 Chloromethane  
 Concen: 9.548 ppbv  
 RT: 3.14 min Scan# 110  
 Delta R.T. -0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 50 Resp: 661242  
 Ion Ratio Lower Upper  
 50 100  
 52 32.7 24.3 36.5





#5

Vinyl Chloride

Concen: 9.577 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

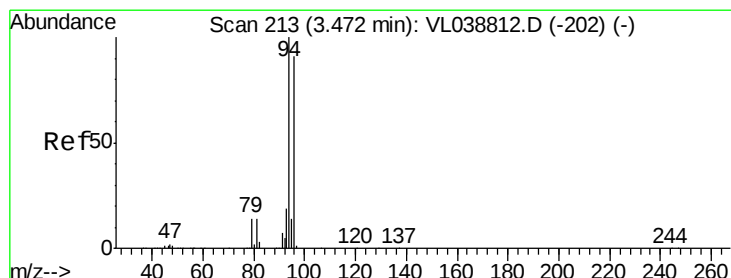
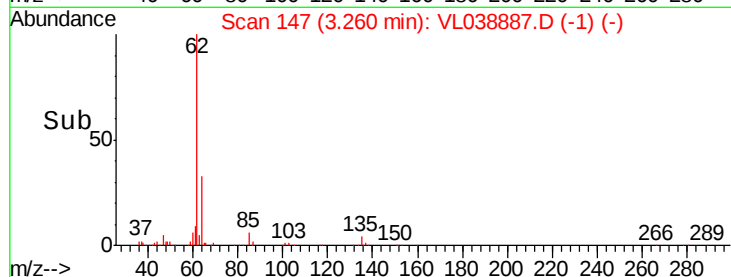
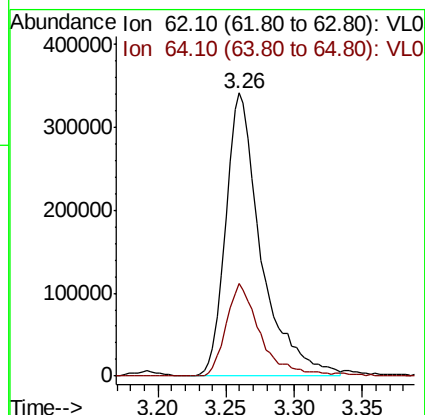
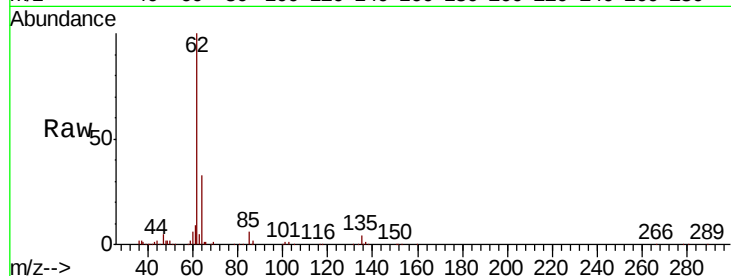
Acq: 12 Apr 2022 9:58 VSTDCCC010EC

Tot Ion: 62 Resp: 612857

Ion Ratio Lower Upper

62 100

64 32.8 24.6 37.0



#6

Bromomethane

Concen: 9.545 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL038887.D

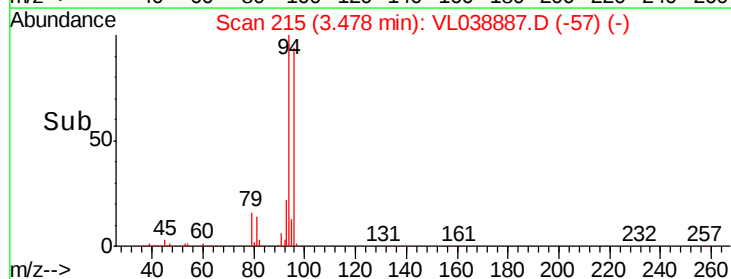
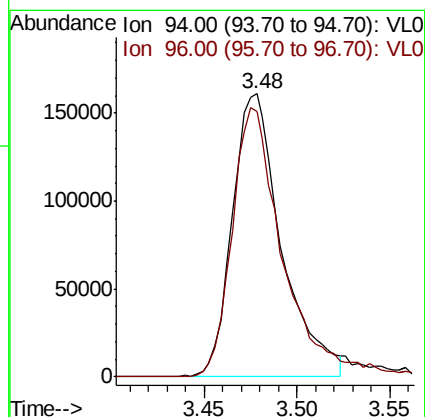
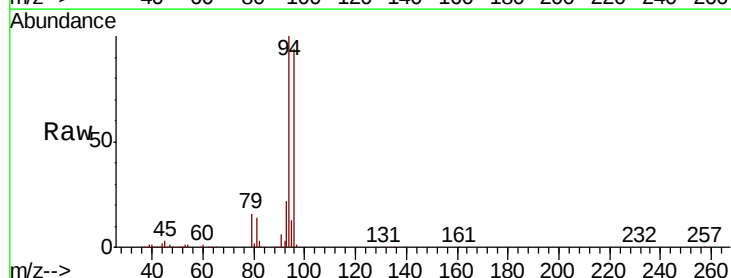
Acq: 12 Apr 2022 9:56

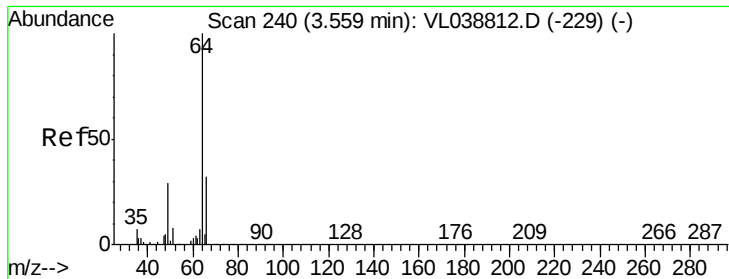
Tgt Ion: 94 Resp: 295530

Ion Ratio Lower Upper

94 100

96 93.5 73.2 109.8





#7

Chloroethane

Concen: 9.467 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

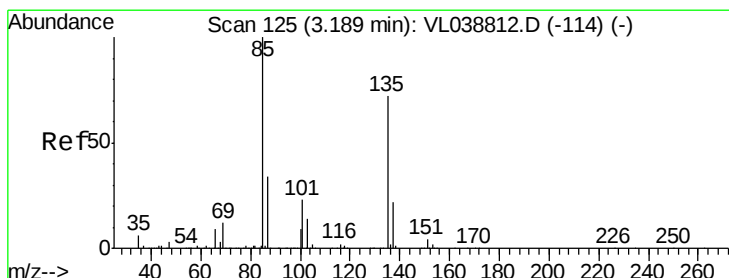
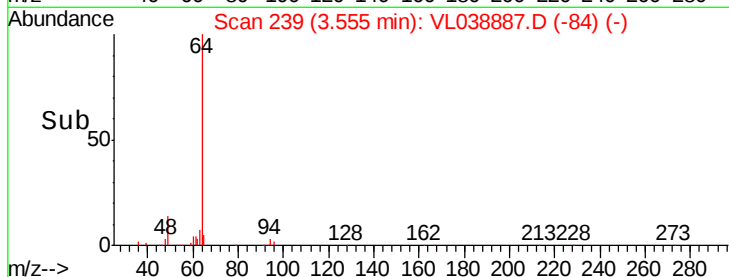
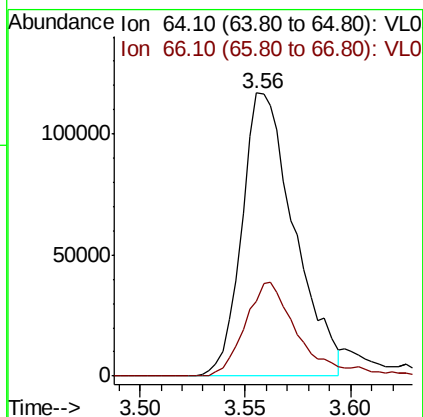
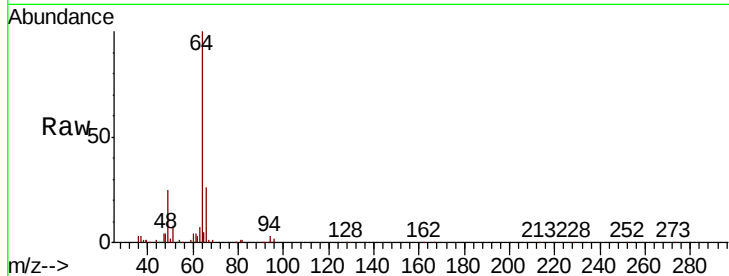
Acq: 12 Apr 2022 9:56 VSTDCCC010EC

Tot Ion: 64 Resp: 202009

Ion Ratio Lower Upper

64 100

66 26.2 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 9.746 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL038887.D

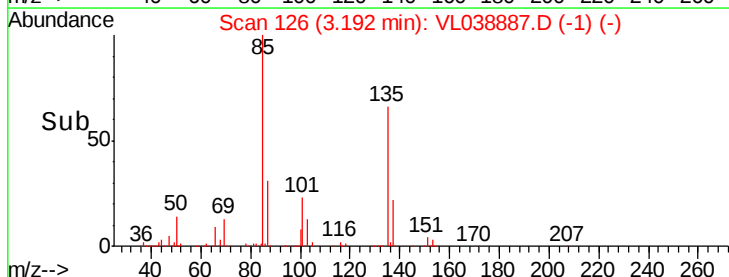
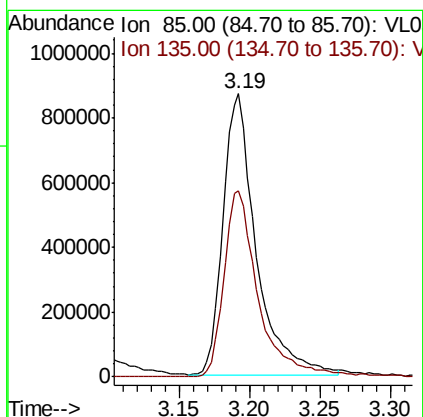
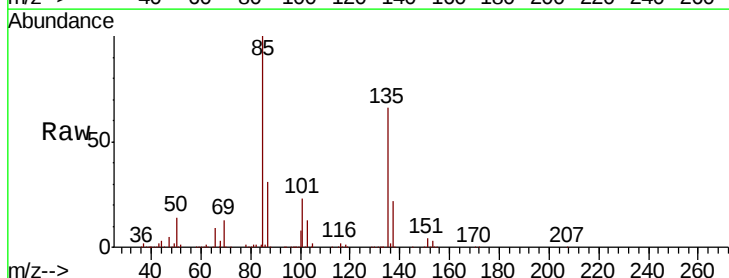
Acq: 12 Apr 2022 9:56

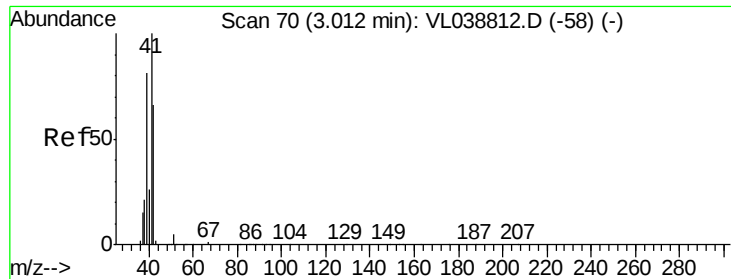
Tgt Ion: 85 Resp: 1415240

Ion Ratio Lower Upper

85 100

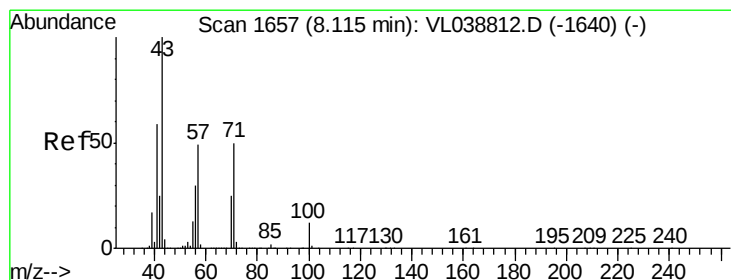
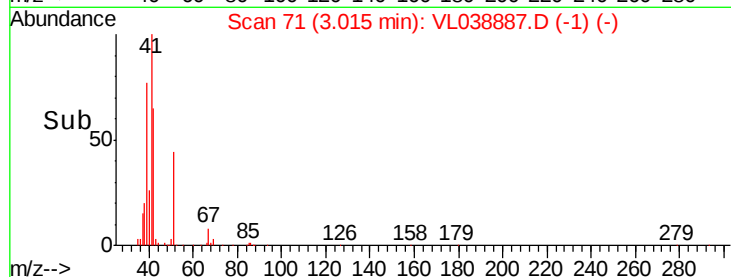
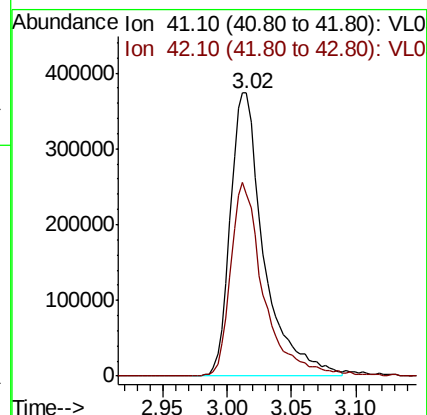
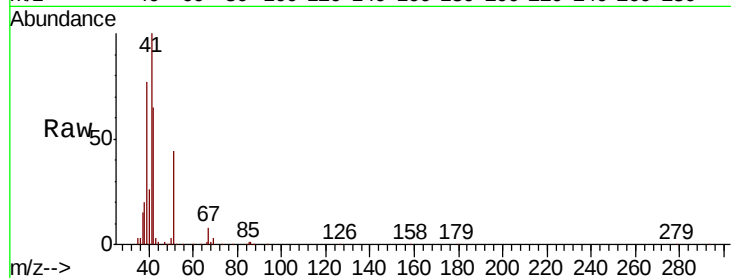
135 69.9 57.0 85.6





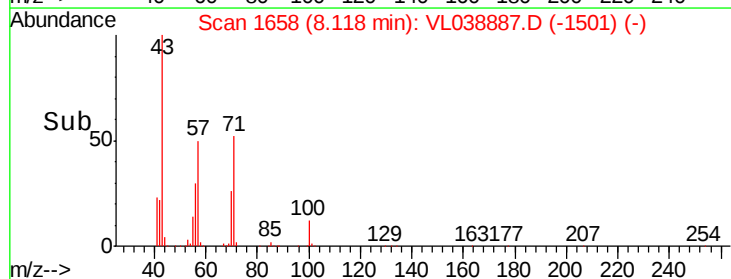
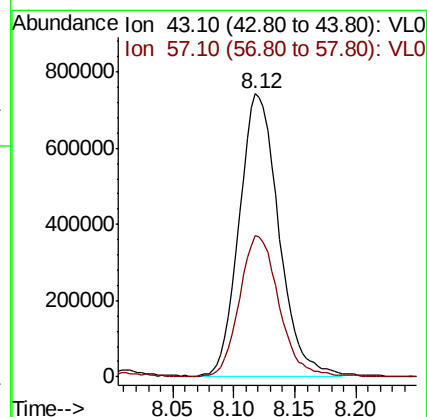
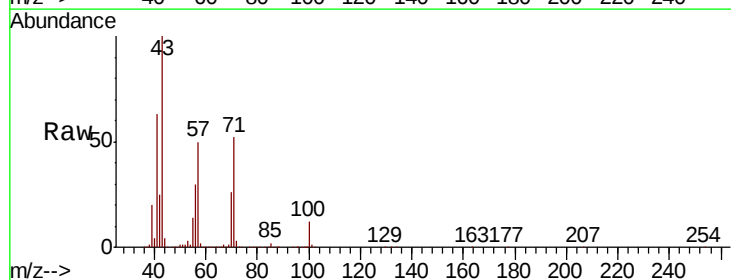
#9  
 Propene  
 Concen: 9.559 ppbv  
 RT: 3.02  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:58

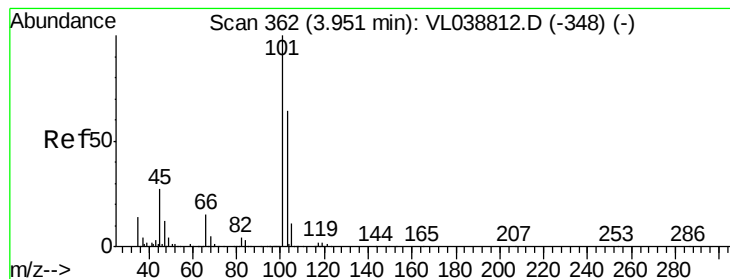
Tot Ion: 41 Resp: 676433  
 Ion Ratio Lower Upper  
 41 100  
 42 67.6 54.2 81.4



#10  
 Heptane  
 Concen: 9.303 ppbv  
 RT: 8.12 min Scan# 1658  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 43 Resp: 1658096  
 Ion Ratio Lower Upper  
 43 100  
 57 50.3 39.3 58.9





#11

Trichlorofluoromethane

Concen: 10.622 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

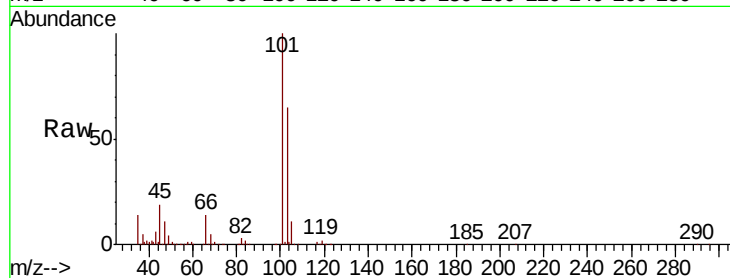
Acq: 12 Apr 2022 9:56 VSTDCCC010EC

Tot Ion:101 Resp: 1326736

Ion Ratio Lower Upper

101 100

103 64.9 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

800000

600000

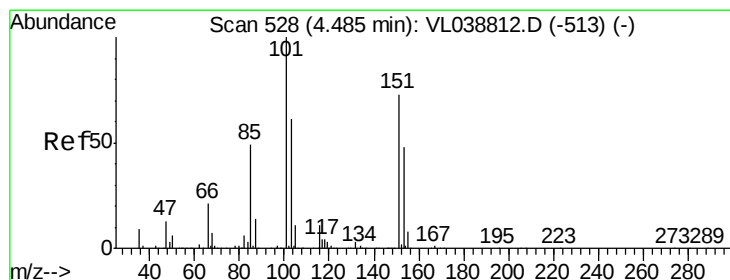
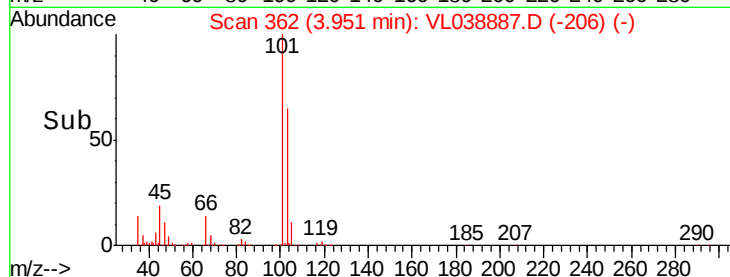
400000

200000

0

3.95

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.439 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.00 min

Lab File: VL038887.D

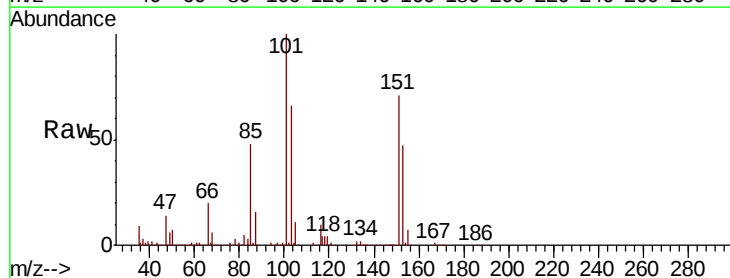
Acq: 12 Apr 2022 9:56

Tgt Ion:101 Resp: 998771

Ion Ratio Lower Upper

101 100

151 71.5 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

500000

400000

300000

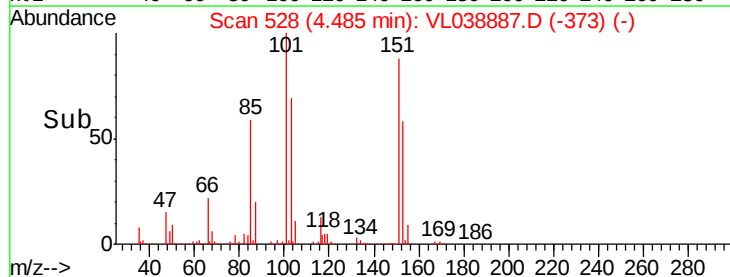
200000

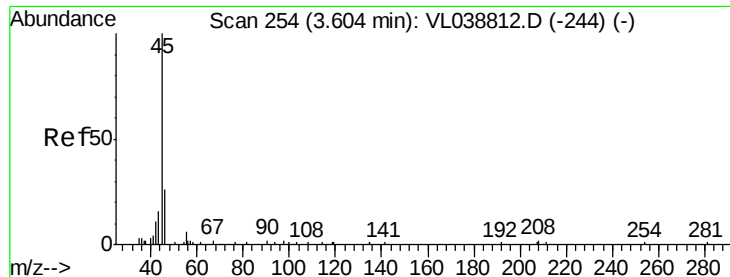
100000

0

4.48

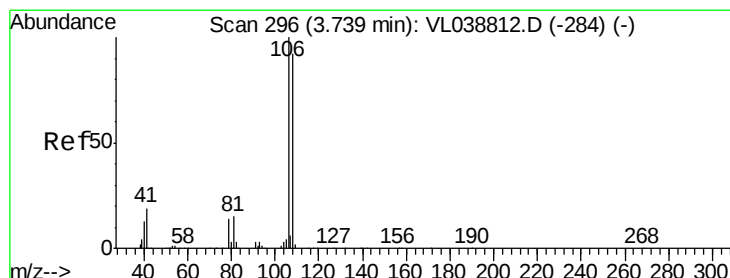
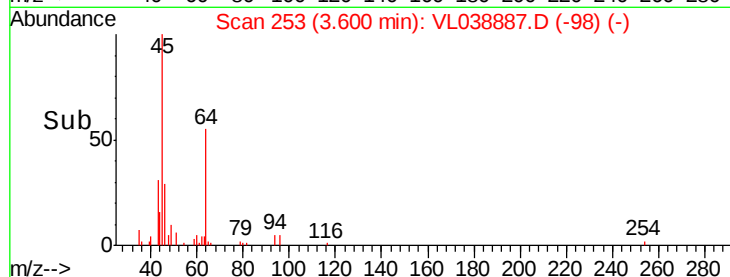
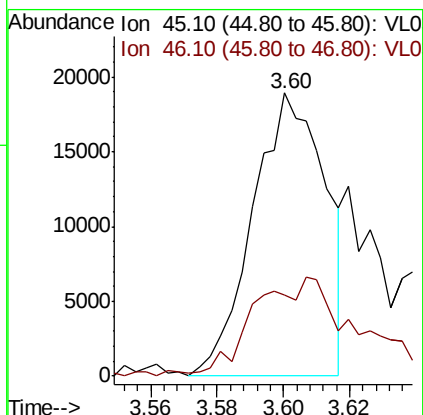
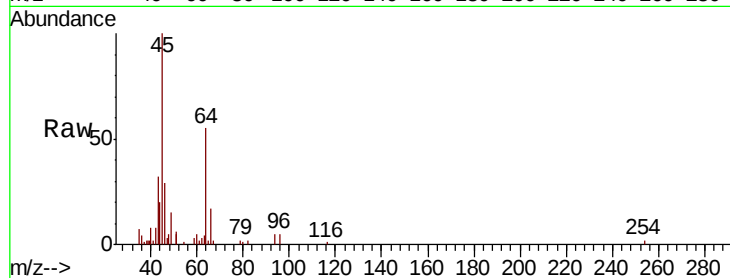
Time-->





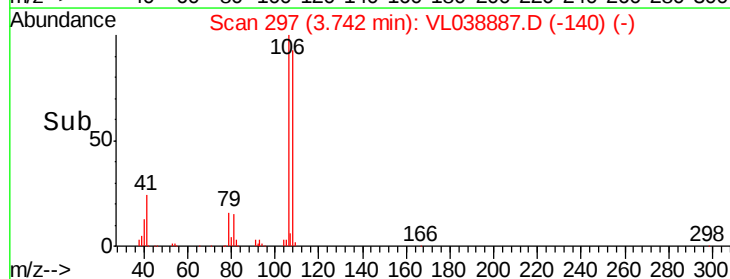
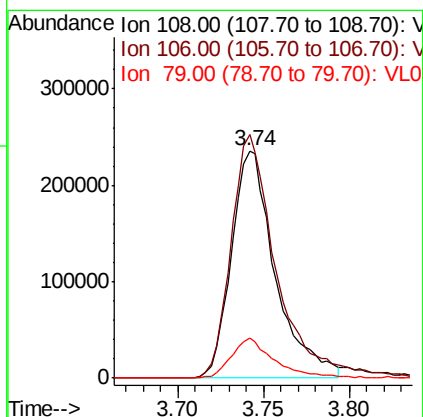
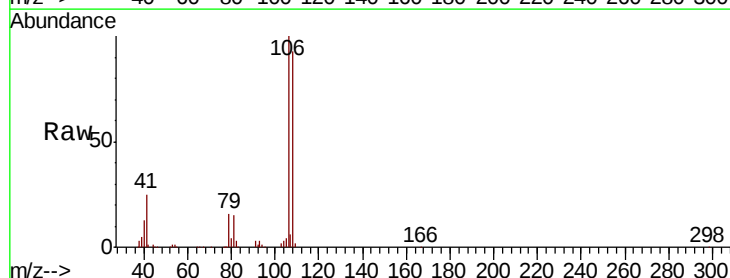
#13  
 Ethanol  
 Concen: 6.707 ppbv  
 RT: 3.60  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:50

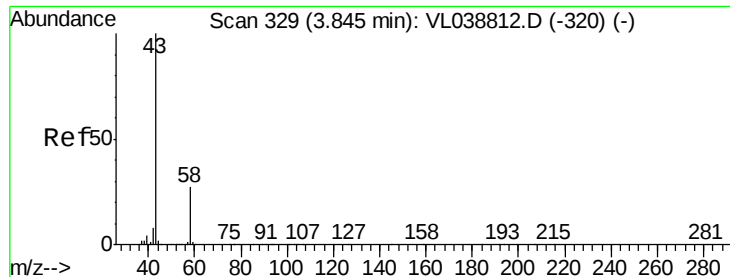
Tot Ion: 45 Resp: 28844  
 Ion Ratio Lower Upper  
 45 100  
 46 60.5 0.0 0.0#



#14  
 Bromoethene  
 Concen: 9.980 ppbv  
 RT: 3.74 min Scan# 297  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 108 Resp: 419949  
 Ion Ratio Lower Upper  
 108 100  
 106 111.5 91.5 137.3  
 79 17.9 13.7 20.5





#15

Acetone

Concen: 9.971 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

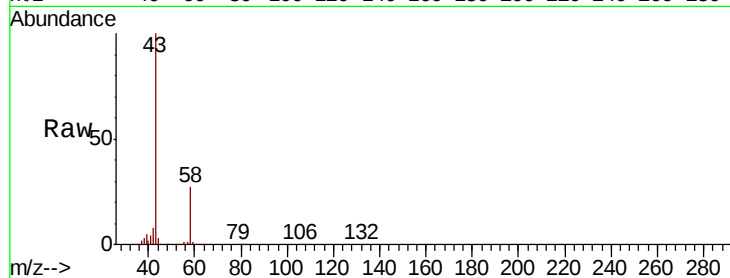
Acq: 12 Apr 2022 9:58 VSTDCCC010EC

Tot Ion: 43 Resp: 1087848

Ion Ratio Lower Upper

43 100

58 26.8 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

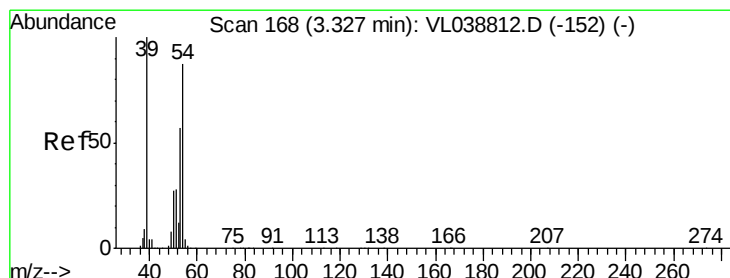
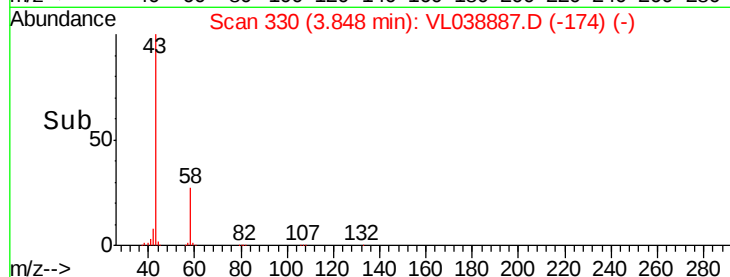
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.695 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL038887.D

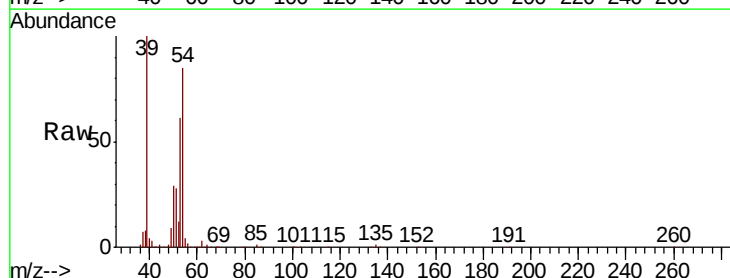
Acq: 12 Apr 2022 9:56

Tgt Ion: 39 Resp: 604741

Ion Ratio Lower Upper

39 100

54 78.7 64.8 97.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

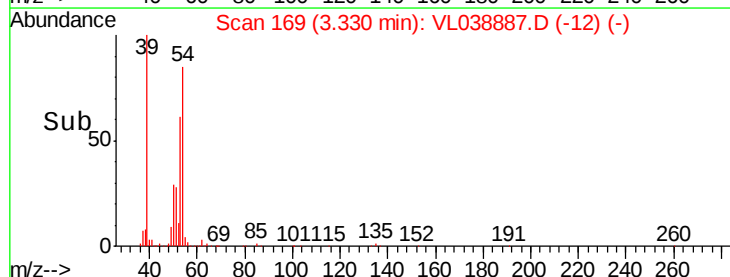
300000

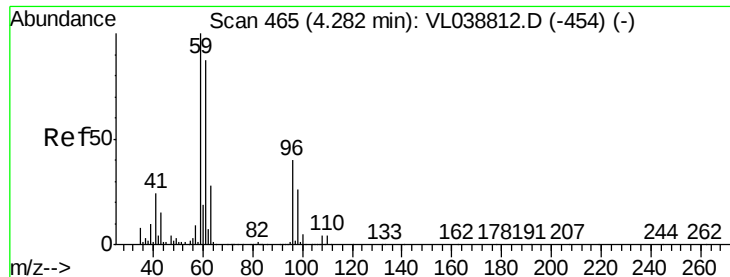
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 7.261 ppbv

RT: 4.28 Instrument: MSVOA\_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: VSTDCCC010EC

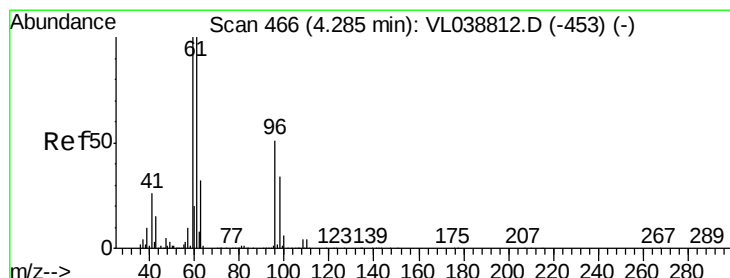
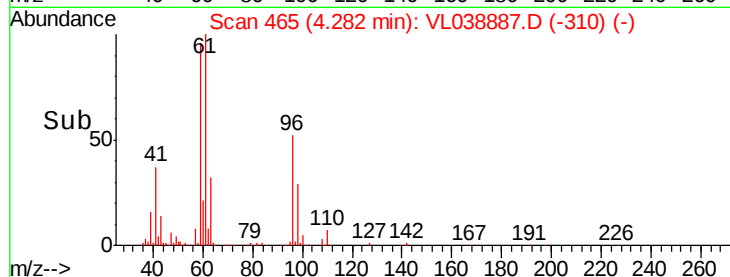
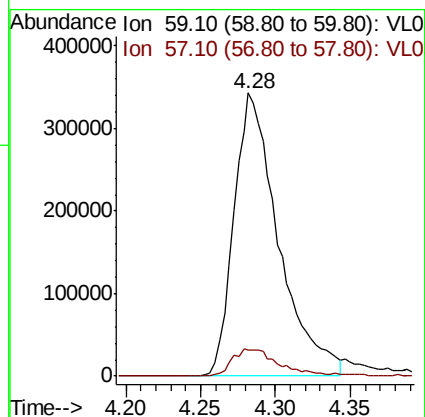
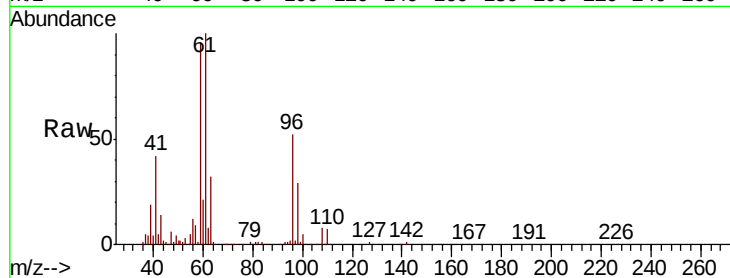
Acq: 12 Apr 2022 9:56

Tot Ion: 59 Resp: 710407

Ion Ratio Lower Upper

59 100

57 10.8 8.5 12.7



#18

1,1-Dichloroethene

Concen: 10.485 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

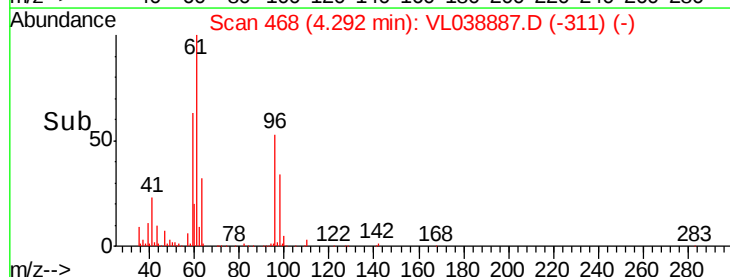
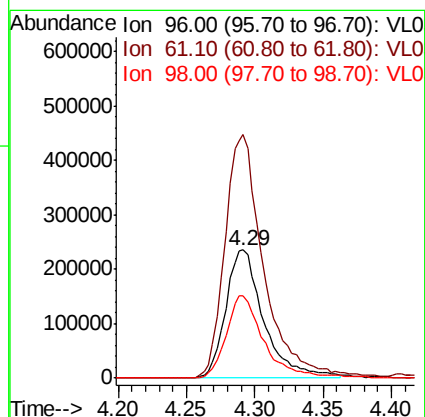
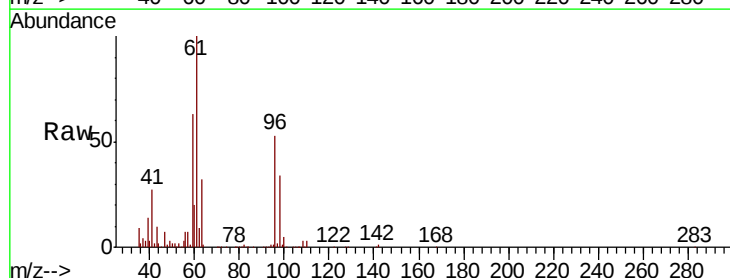
Tgt Ion: 96 Resp: 457320

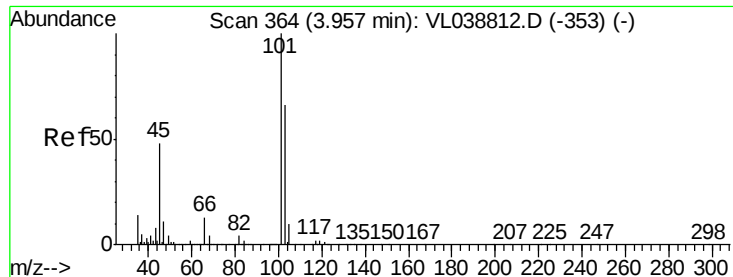
Ion Ratio Lower Upper

96 100

61 189.7 156.1 234.1

98 64.2 53.0 79.6





#19

Isopropyl Alcohol

Concen: 8.229 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

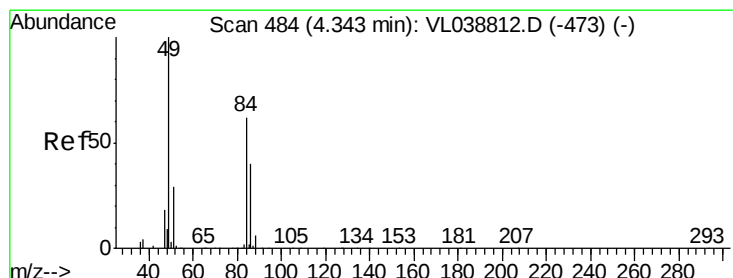
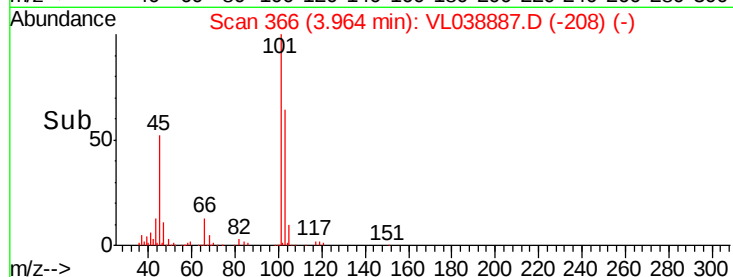
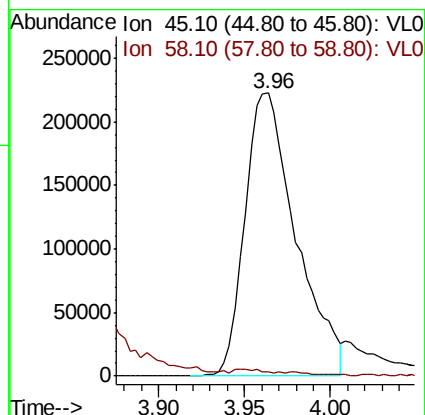
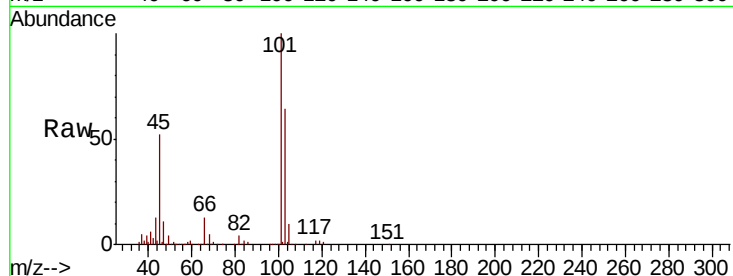
Acq: 12 Apr 2022 9:56 VSTDCCC010EC

Tot Ion: 45 Resp: 458857

Ion Ratio Lower Upper

45 100

58 2.3 0.0 0.0#



#20

Methylene Chloride

Concen: 9.139 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

Tgt Ion: 84 Resp: 361622

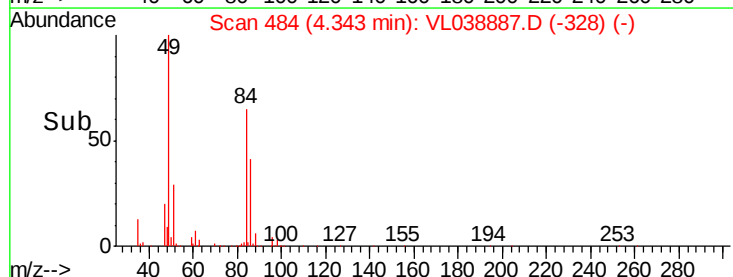
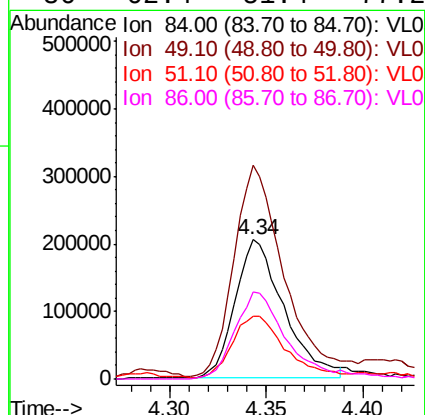
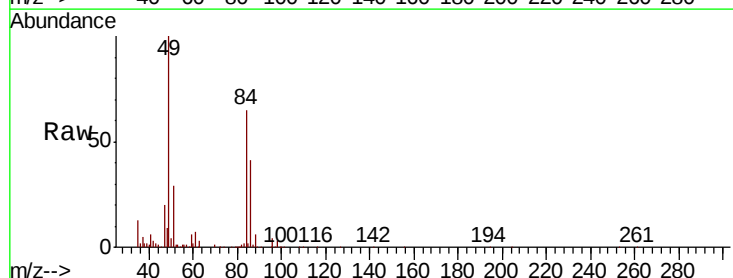
Ion Ratio Lower Upper

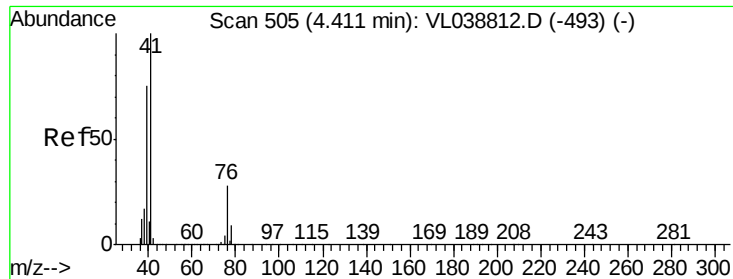
84 100

49 152.2 129.4 194.0

51 43.9 37.4 56.2

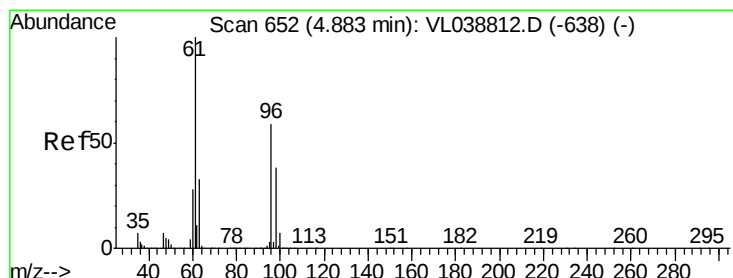
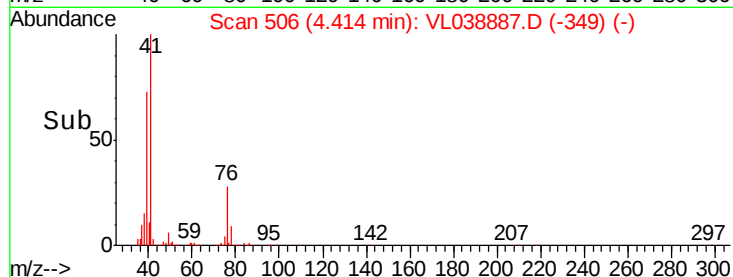
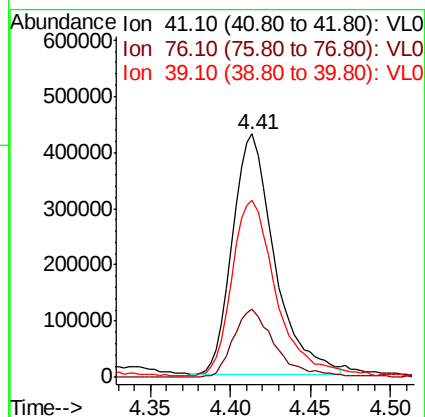
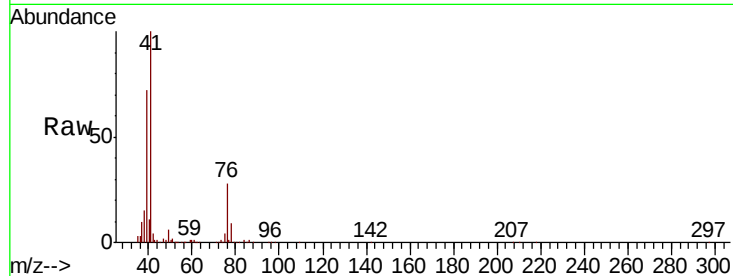
86 62.4 51.4 77.2





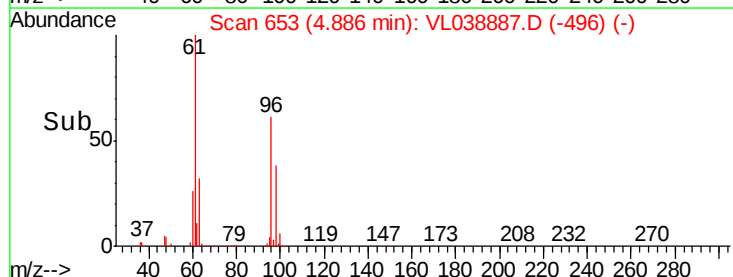
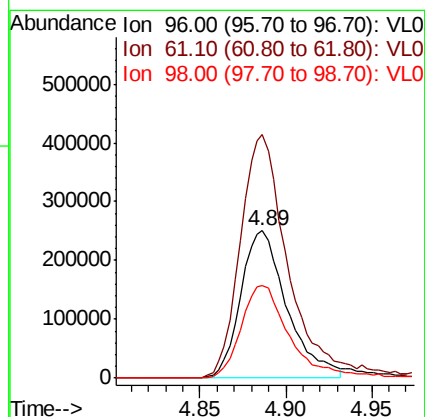
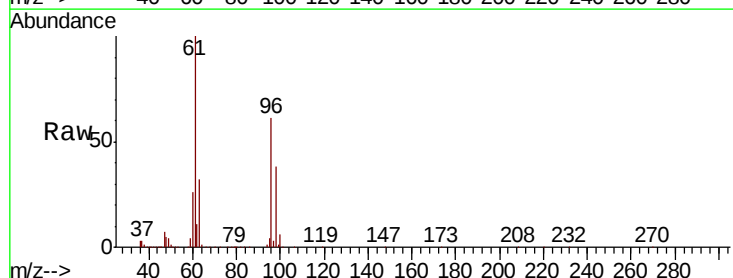
#21  
 Allvl Chloride  
 Concen: 9.463 ppbv  
 RT: 4.41  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:56

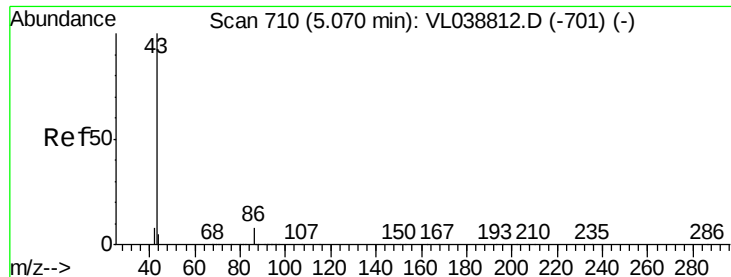
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 773013 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 28.7  | 23.7  | 35.5   |
| 39       | 77.3  | 62.0  | 93.0   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.623 ppbv  
 RT: 4.89 min Scan# 653  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 469127 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 165.0 | 134.8 | 202.2  |
| 98       | 62.6  | 51.9  | 77.9   |





#23

Vinyl Acetate

Concen: 10.404 ppbv

RT: 5.07 Instrument:

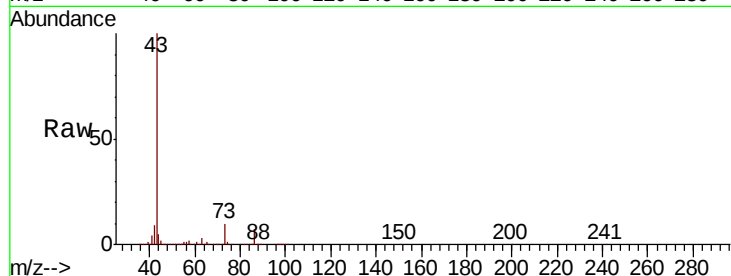
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

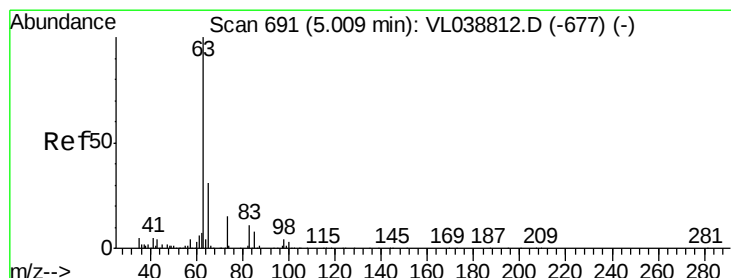
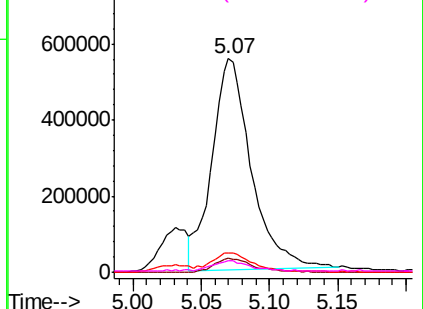
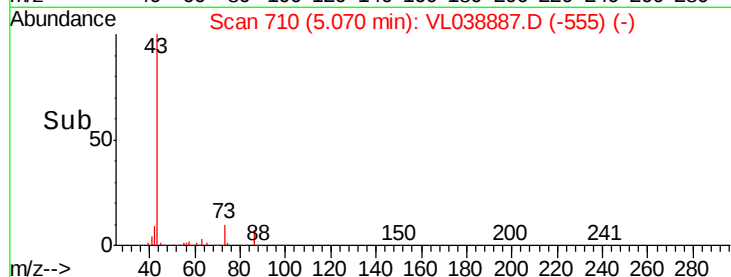
Acq: 12 Apr 2022 9:56 VSTDCCC010EC

Tot Ion: 43 Resp: 1105428

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.6   | 5.8   | 8.6   |
| 42  | 9.2   | 7.8   | 11.6  |
| 44  | 4.8   | 3.6   | 5.4   |



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 86.10 (85.80 to 86.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0  
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.904 ppbv

RT: 5.01 min Scan# 692

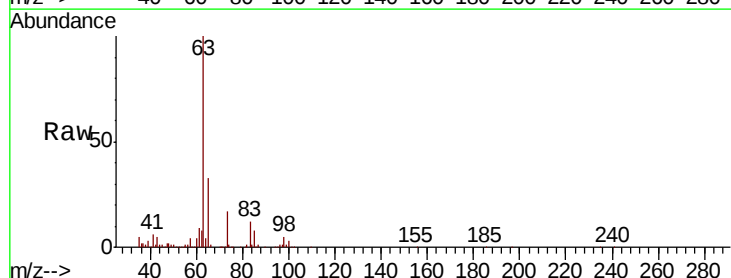
Delta R.T. 0.00 min

Lab File: VL038887.D

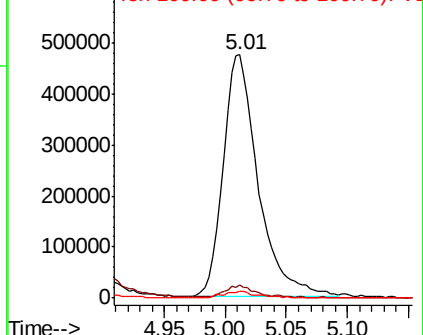
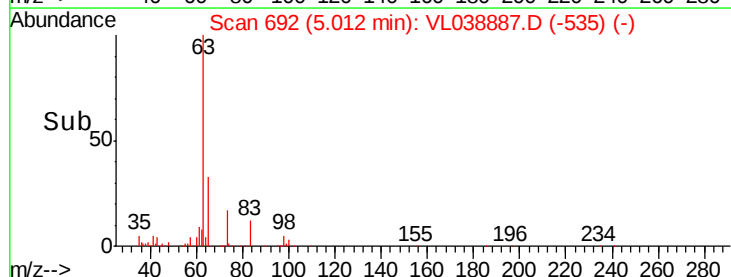
Acq: 12 Apr 2022 9:56

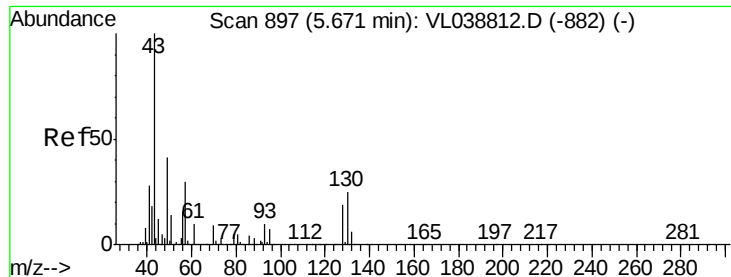
Tgt Ion: 63 Resp: 950972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.9   | 2.2   | 6.6   |
| 100 | 3.0   | 1.4   | 4.0   |



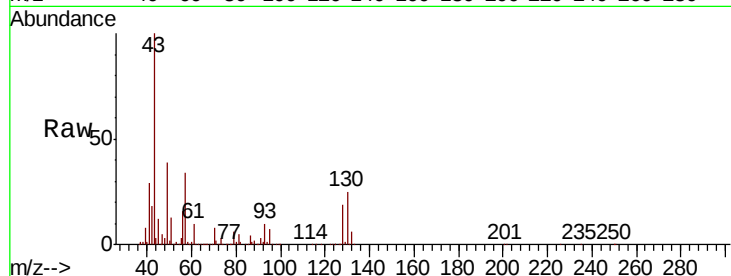
Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





#25  
Ethyl Acetate  
Concen: 9.738 ppbv  
RT: 5.67 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
VSTDCCC010EC  
Acq: 12 Apr 2022 9:56

| Tot Ion: | 43    | Resp: | 2695889 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 10.2  | 8.4   | 12.6    |
| 61       | 9.9   | 7.9   | 11.9    |
| 70       | 6.9   | 5.6   | 8.4     |



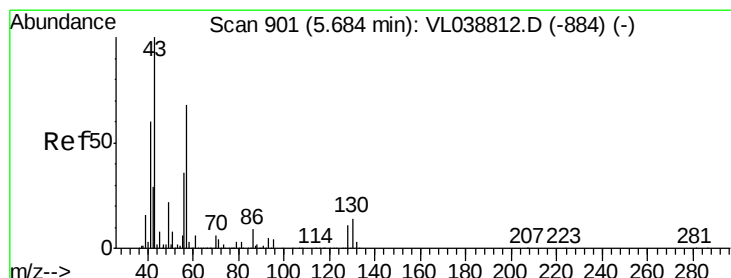
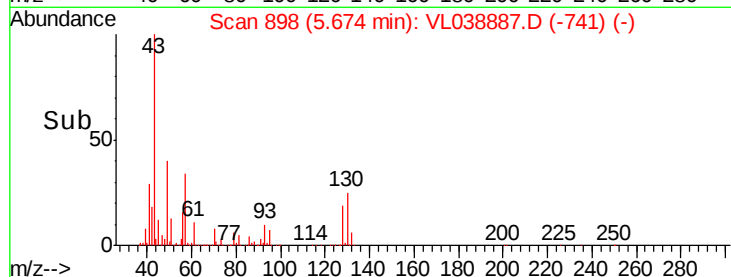
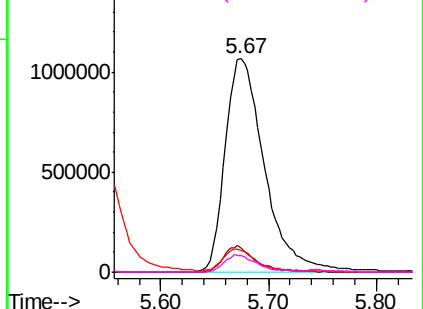
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

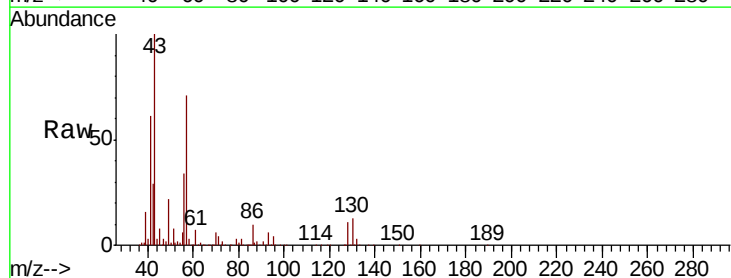
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 9.409 ppbv  
RT: 5.69 min Scan# 902  
Delta R.T.: 0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

| Tgt Ion: | 57    | Resp: | 1185678 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 87.8  | 72.0  | 108.0   |
| 43       | 230.4 | 186.6 | 280.0   |
| 56       | 51.6  | 42.8  | 64.2    |



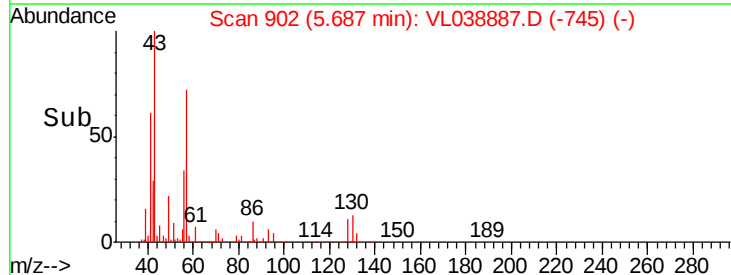
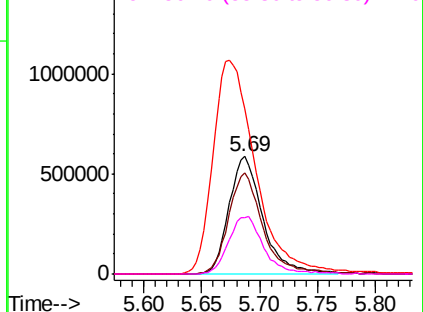
Abundance

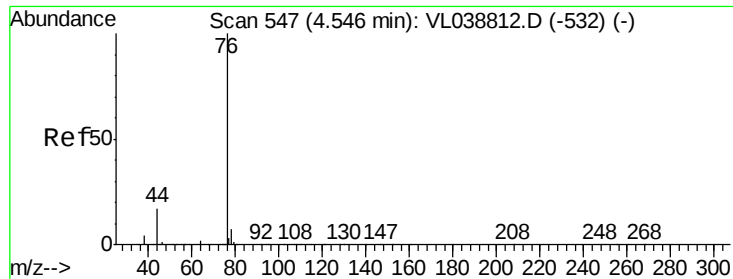
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.332 ppbv

RT: 4.55 Instrument: MSVOA\_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 12 Apr 2022 9:56

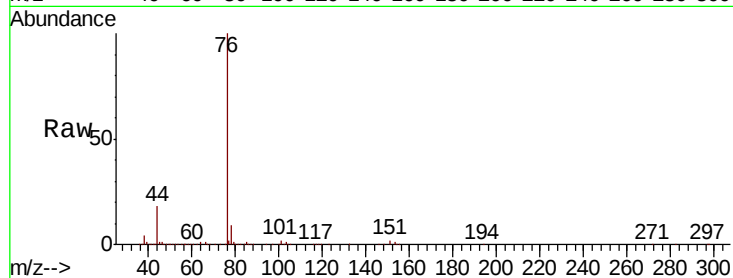
Tot Ion: 76 Resp: 1194003

Ion Ratio Lower Upper

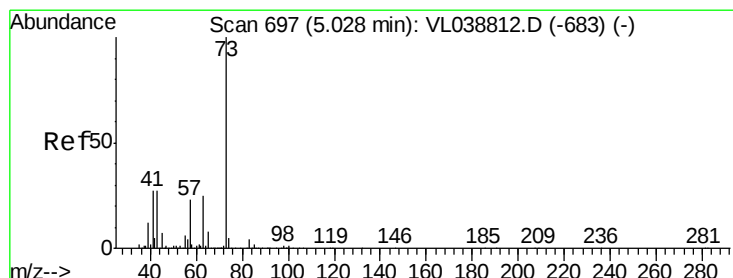
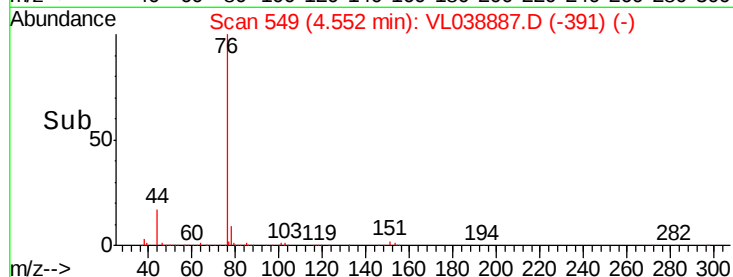
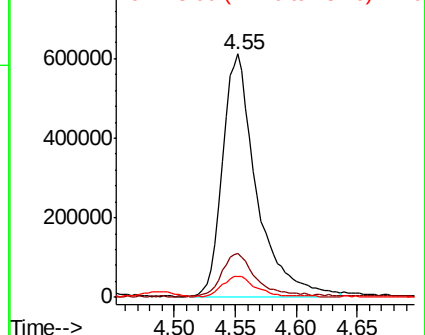
76 100

44 18.6 15.7 23.5

78 9.1 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.207 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL038887.D

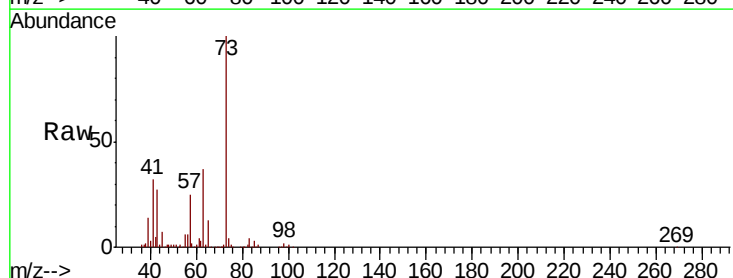
Acq: 12 Apr 2022 9:56

Tgt Ion: 73 Resp: 896090

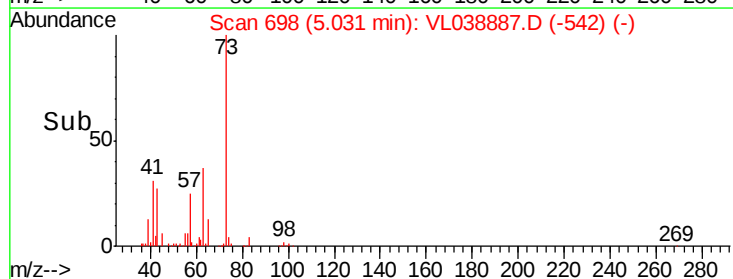
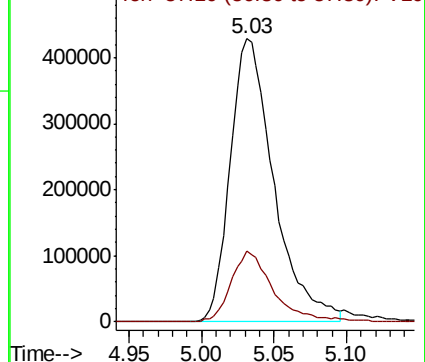
Ion Ratio Lower Upper

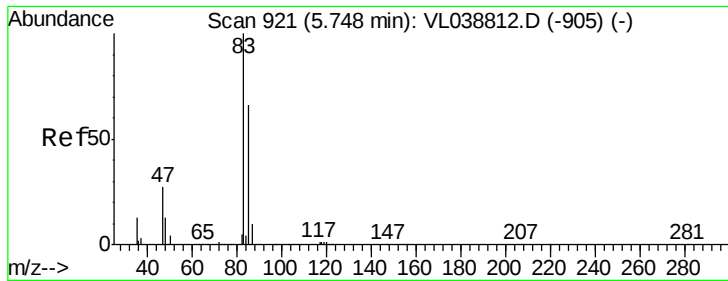
73 100

57 24.6 19.7 29.5



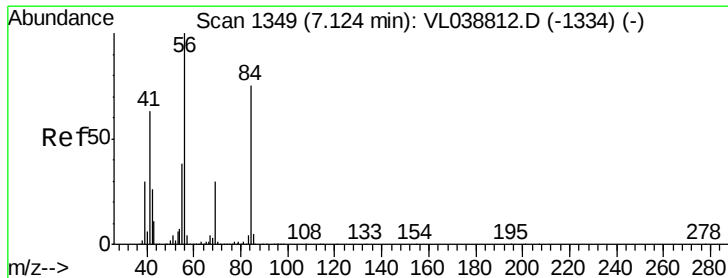
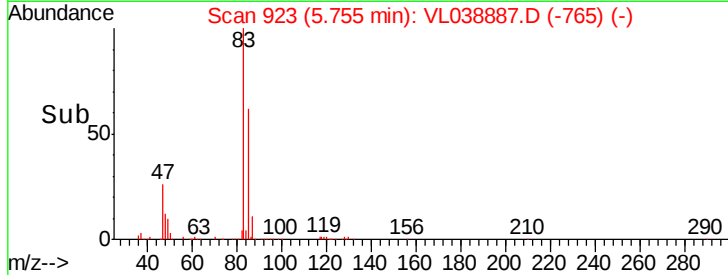
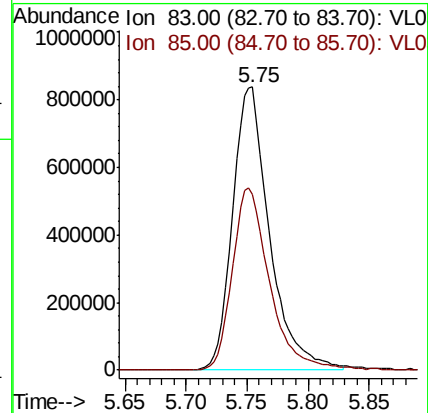
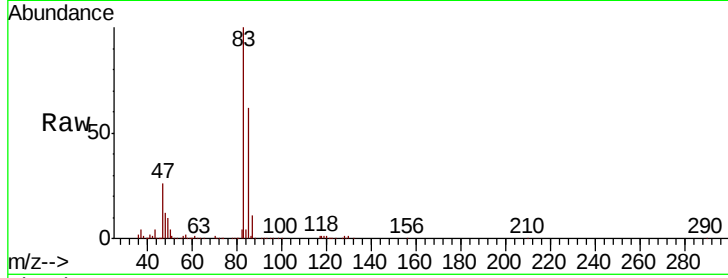
Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





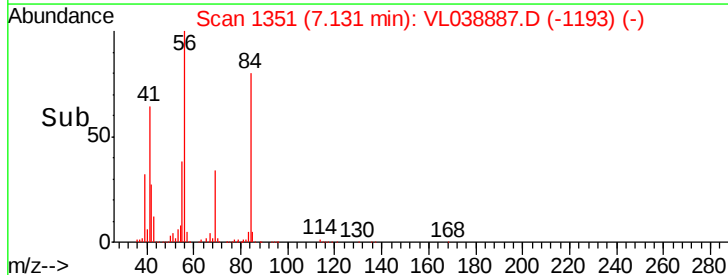
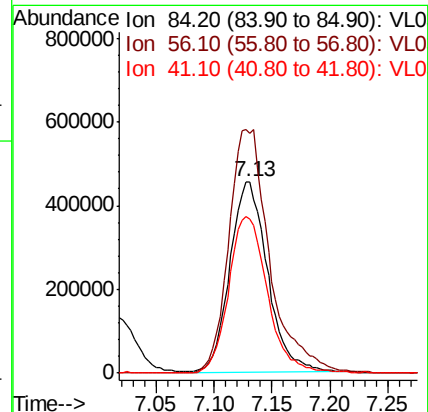
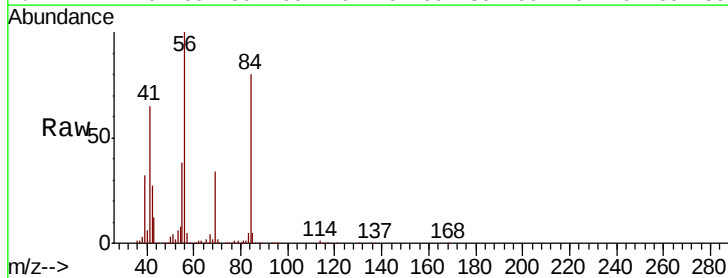
#29  
Chloroform  
Concen: 10.006 ppbv  
RT: 5.75 min  
Instrument: MSVOA\_1  
Delta R.T.: 0.01 min  
Lab File: ClientSampleId : VSTDCCC010EC  
Acq: 12 Apr 2022 9:56

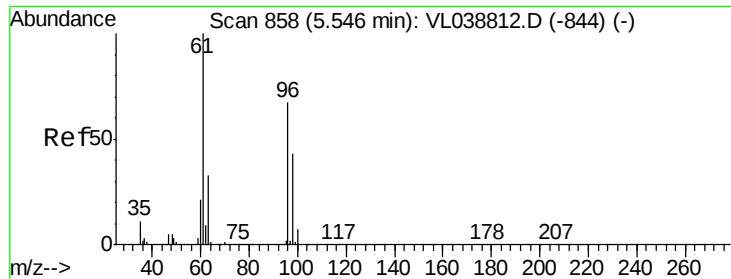
Tot Ion: 83 Resp: 1764143  
Ion Ratio Lower Upper  
83 100  
85 61.8 52.5 78.7



#30  
Cyclohexane  
Concen: 9.266 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T.: 0.01 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

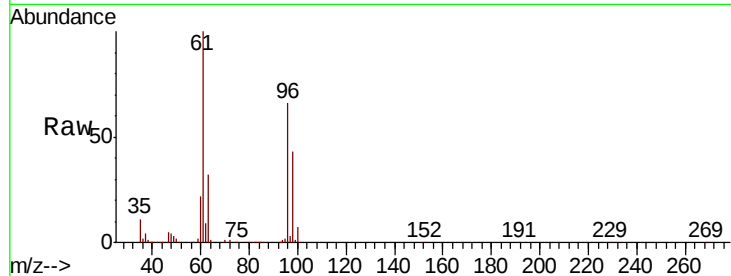
Tgt Ion: 84 Resp: 1029112  
Ion Ratio Lower Upper  
84 100  
56 139.8 114.4 171.6  
41 85.1 69.0 103.4



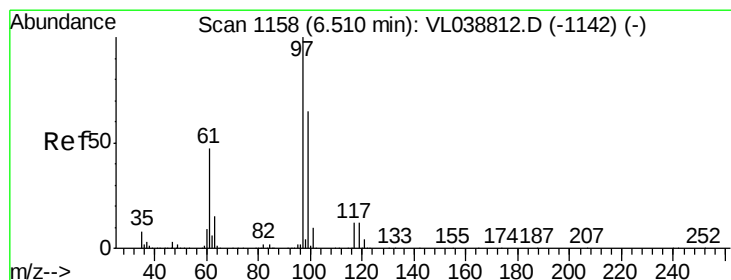
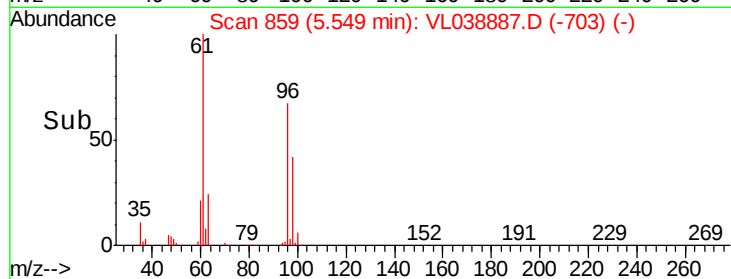
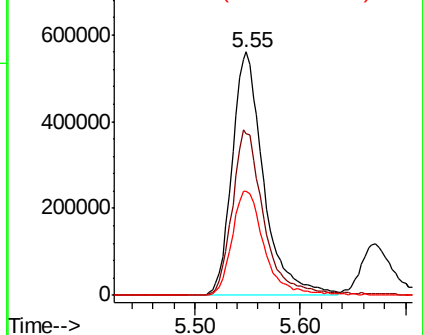


#31  
 cis-1,2-Dichloroethene  
 Concen: 9.987 ppbv  
 RT: 5.55  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:58

Tot Ion: 61 Resp: 1157124  
 Ion Ratio Lower Upper  
 61 100  
 96 66.3 53.4 80.0  
 98 42.6 34.2 51.4

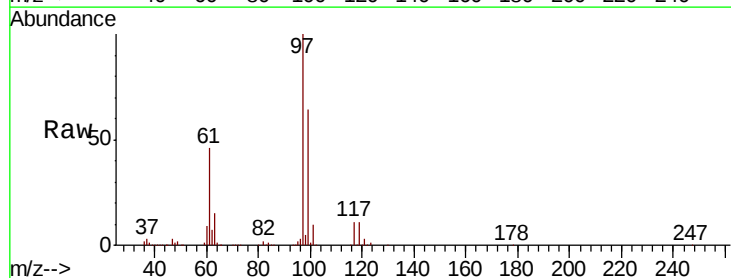


Abundance Ion 61.10 (60.80 to 61.80): VL0  
 Ion 96.00 (95.70 to 96.70): VL0  
 Ion 98.00 (97.70 to 98.70): VL0

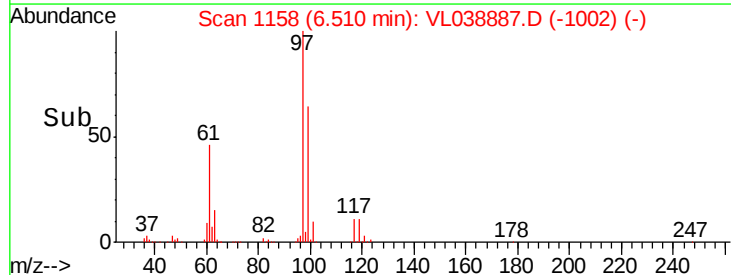
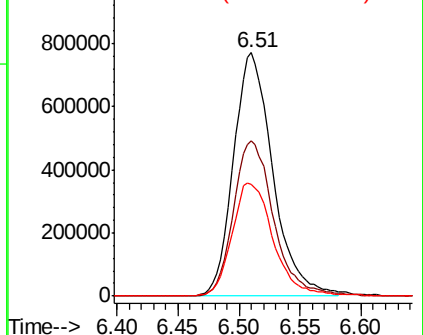


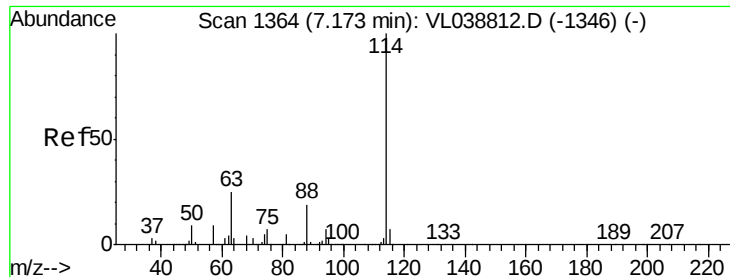
#32  
 1,1,1-Trichloroethane  
 Concen: 9.740 ppbv  
 RT: 6.51 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 97 Resp: 1730097  
 Ion Ratio Lower Upper  
 97 100  
 99 65.2 52.4 78.6  
 61 48.8 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0

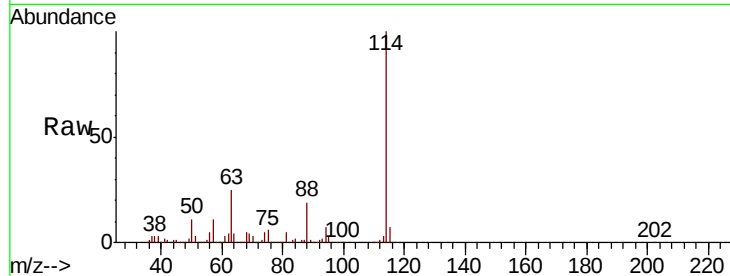




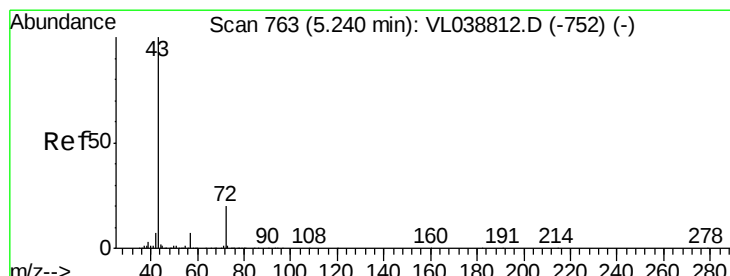
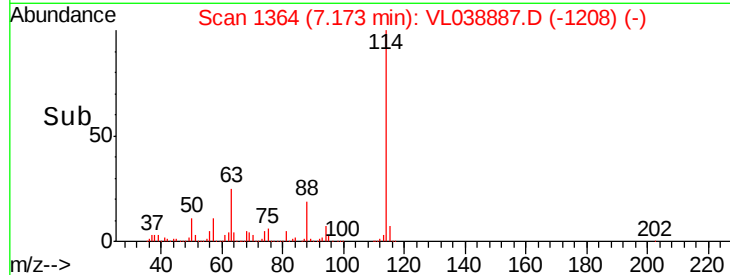
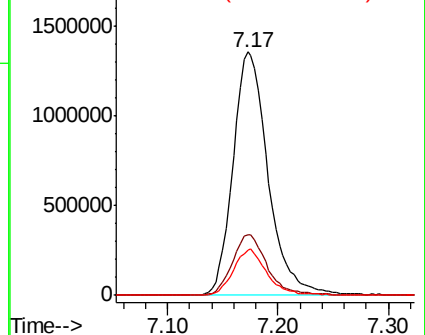
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 ClientSampleId:  
 Lab File: VSTDCCC010EC  
 Acq: 12 Apr 2022 9:56

Tot Ion:114 Resp: 2984389

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.2  | 19.8  | 29.8  |
| 88  | 18.3  | 14.2  | 21.4  |



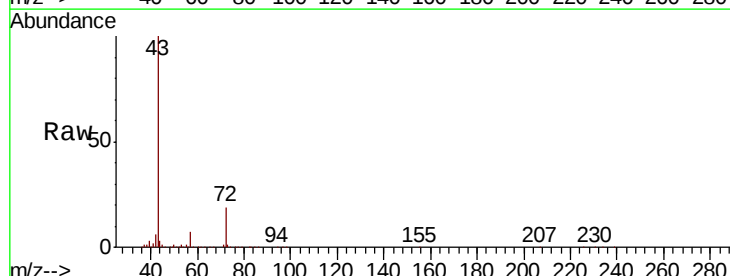
Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0



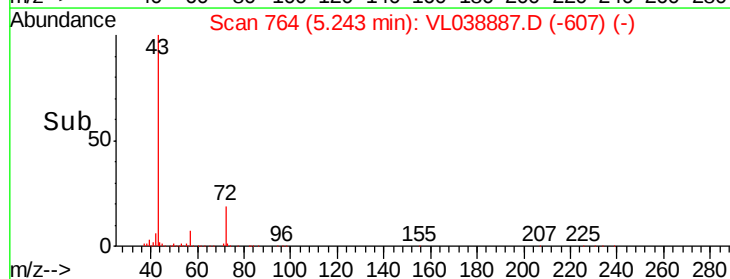
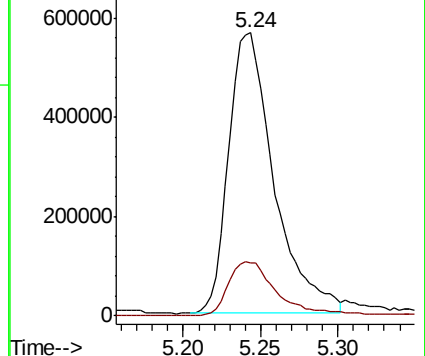
#34  
 2-Butanone  
 Concen: 9.732 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T.: 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

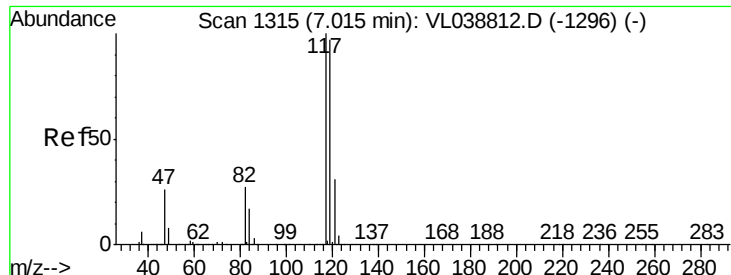
Tgt Ion: 43 Resp: 1147619

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.5  | 16.9  | 25.3  |



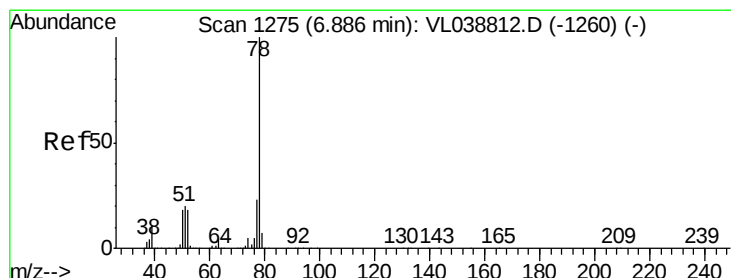
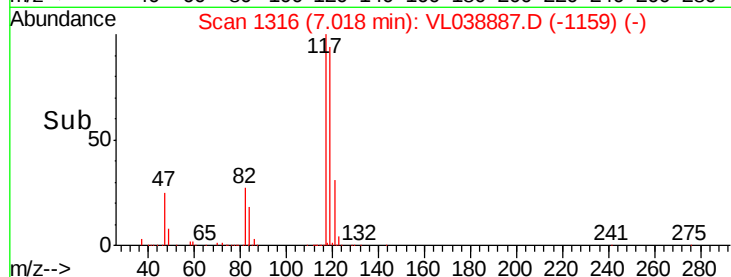
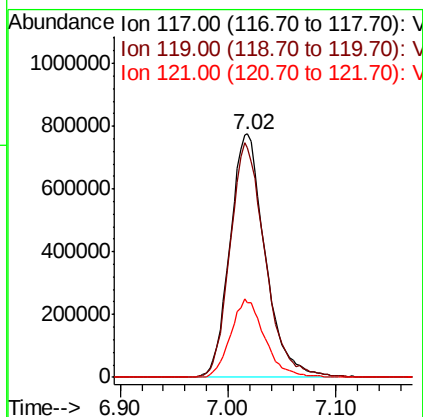
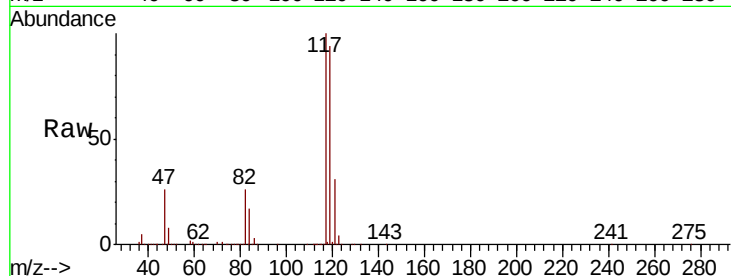
Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





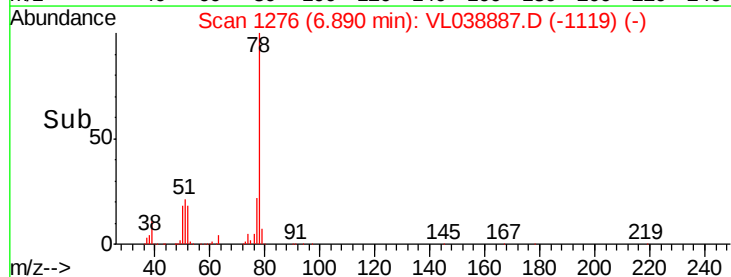
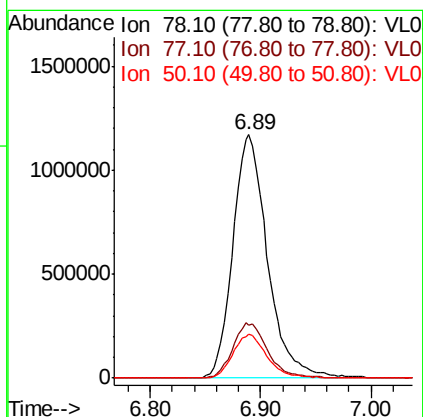
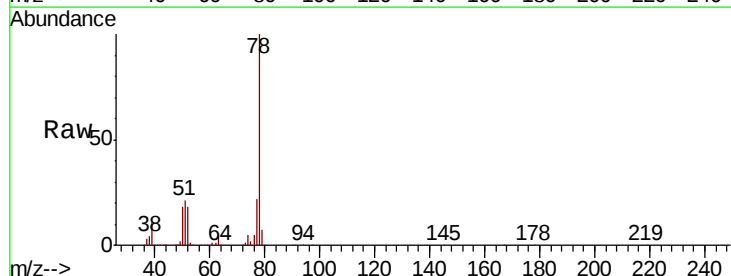
#35  
 Carbon Tetrachloride  
 Concen: 9.847 ppbv  
 RT: 7.02  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:56

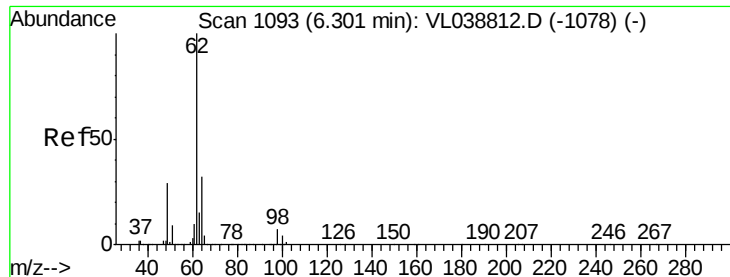
Tot Ion: 117 Resp: 1761836  
 Ion Ratio Lower Upper  
 117 100  
 119 94.1 77.7 116.5  
 121 30.8 24.5 36.7



#36  
 Benzene  
 Concen: 9.348 ppbv  
 RT: 6.89 min Scan# 1276  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

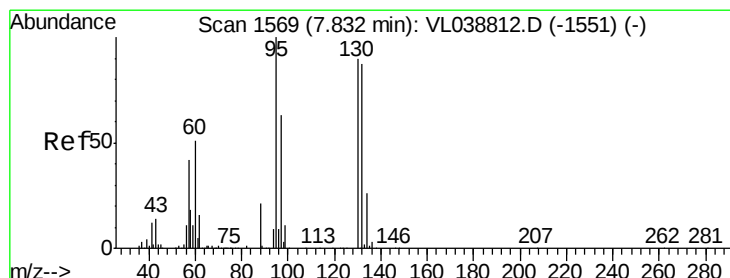
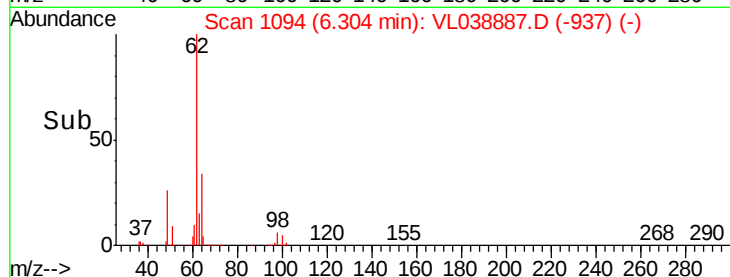
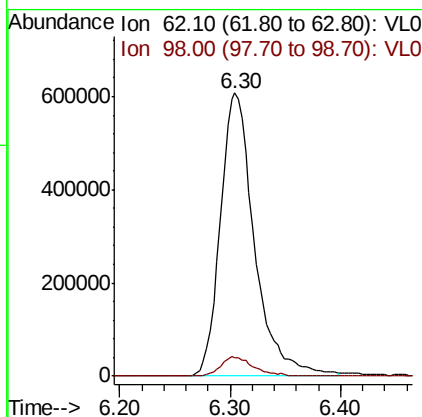
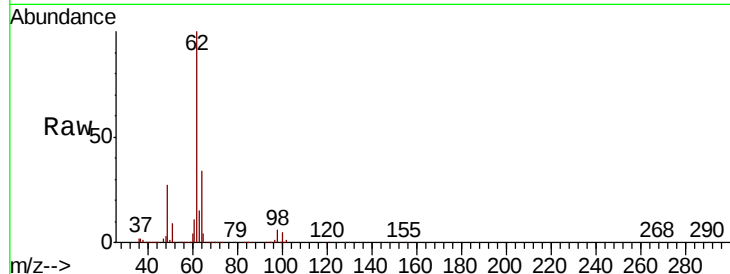
Tgt Ion: 78 Resp: 2538073  
 Ion Ratio Lower Upper  
 78 100  
 77 21.5 18.2 27.2  
 50 18.1 14.0 21.0





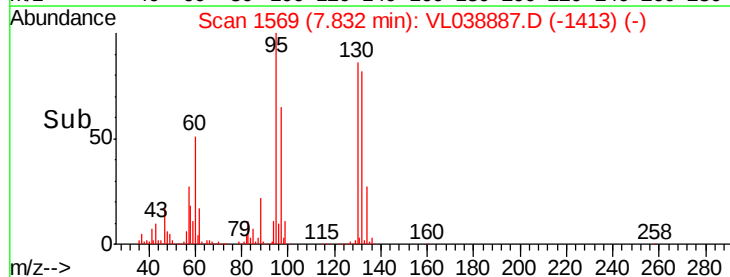
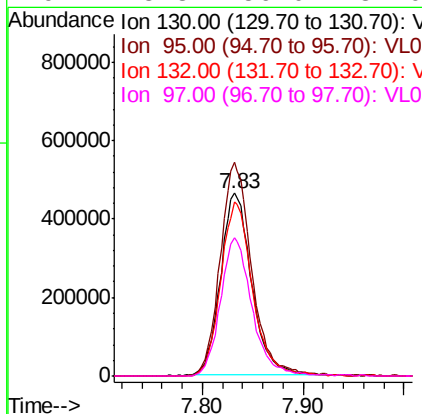
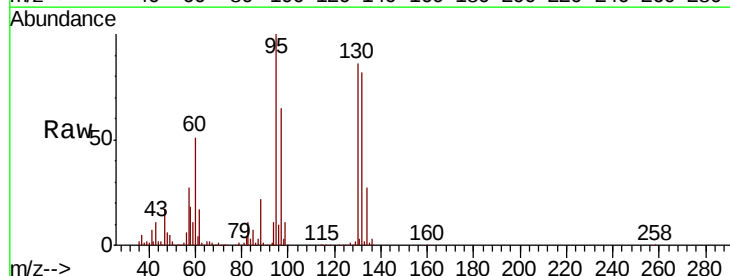
#37  
 1,2-Dichloroethane  
 Concen: 10.427 ppbv  
 RT: 6.30  
 Delta R.T.: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:50

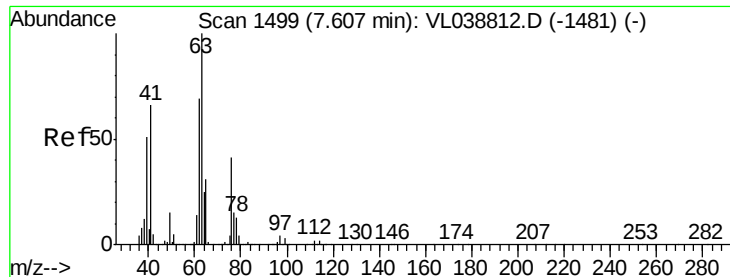
Tot Ion: 62 Resp: 1294310  
 Ion Ratio Lower Upper  
 62 100  
 98 6.7 5.9 8.9



#38  
 Trichloroethene  
 Concen: 8.997 ppbv  
 RT: 7.83 min Scan# 1569  
 Delta R.T.: -0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 130 Resp: 1002233  
 Ion Ratio Lower Upper  
 130 100  
 95 117.0 89.4 134.0  
 132 95.8 77.7 116.5  
 97 75.8 56.0 84.0





#39

1,2-Dichloropropane

Concen: 9.374 ppbv

RT: 7.61 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:56 VSTDCCC010EC

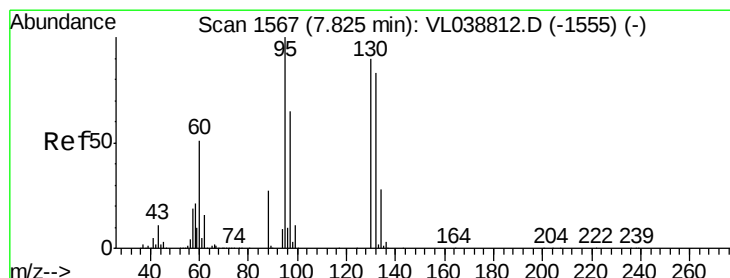
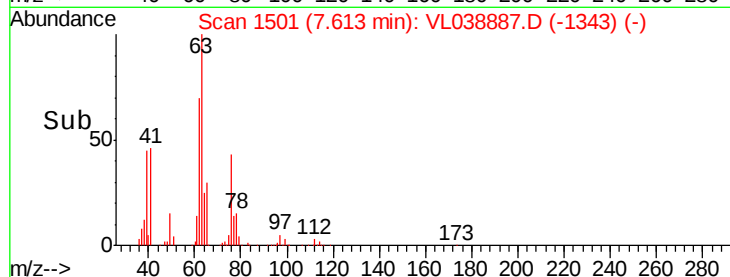
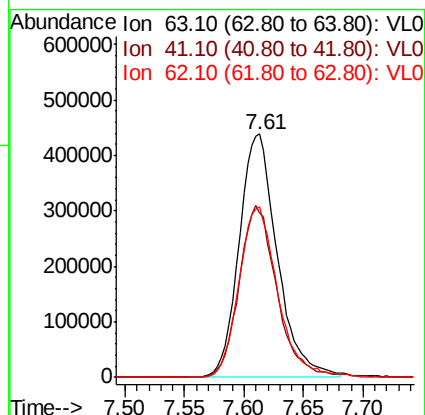
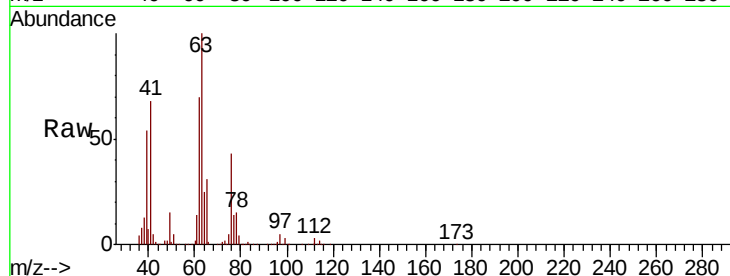
Tot Ion: 63 Resp: 973394

Ion Ratio Lower Upper

63 100

41 67.6 53.0 79.6

62 70.1 55.0 82.4



#40

1,4-Dioxane

Concen: 9.120 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

Tgt Ion: 88 Resp: 321594

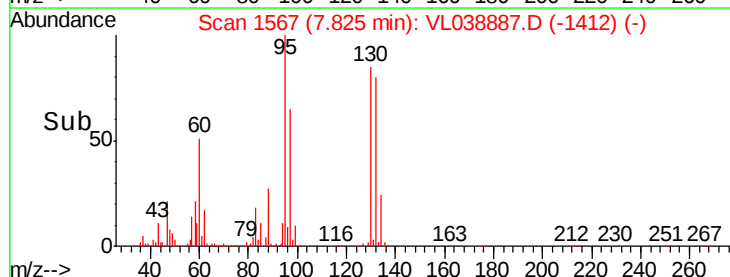
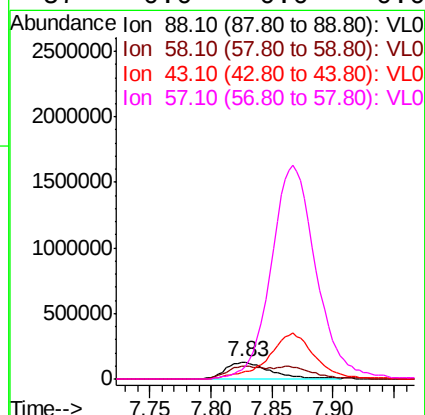
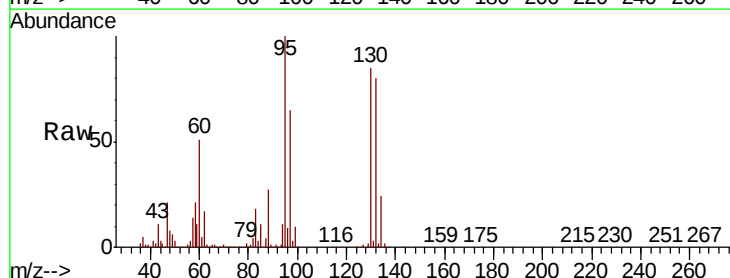
Ion Ratio Lower Upper

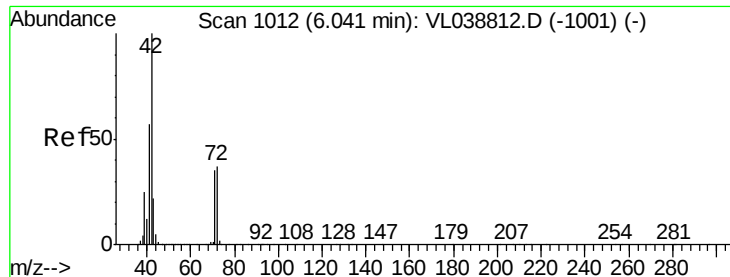
88 100

58 62.0 49.4 74.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.566 ppbv

RT: 6.05 Instrument: MSVOA\_1

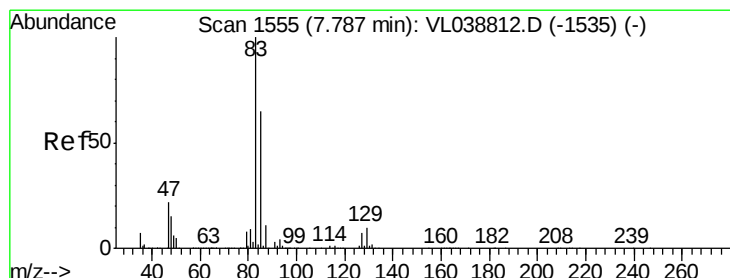
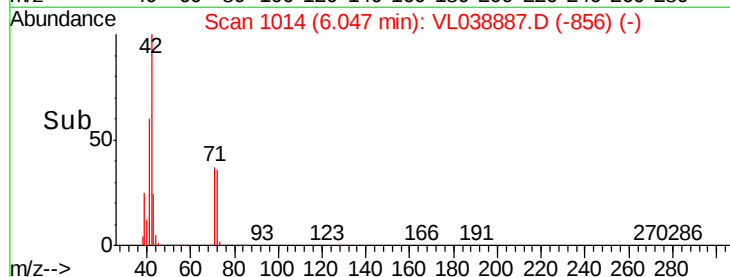
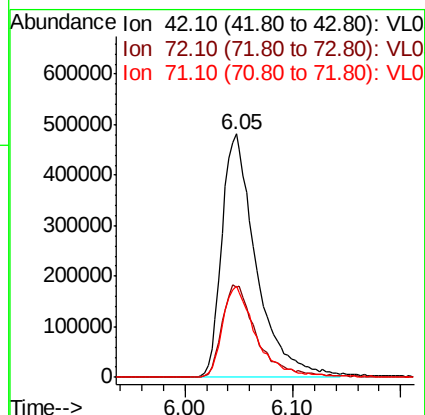
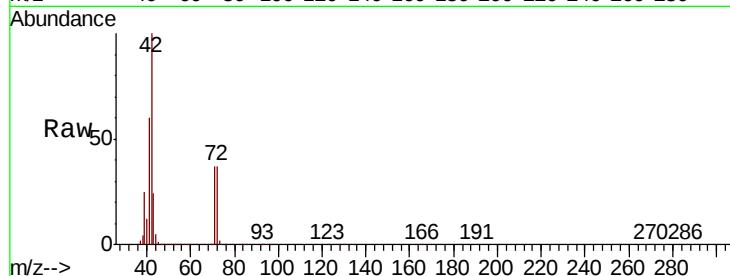
Delta R.T. 0.01 min

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 12 Apr 2022 9:56

Tot Ion: 42 Resp: 1071390

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 38.9  | 31.4  | 47.0  |
| 71  | 37.2  | 30.2  | 45.4  |



#42

Bromodichloromethane

Concen: 10.019 ppbv

RT: 7.79 min Scan# 1557

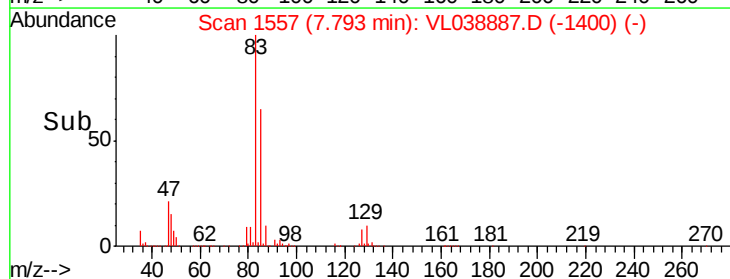
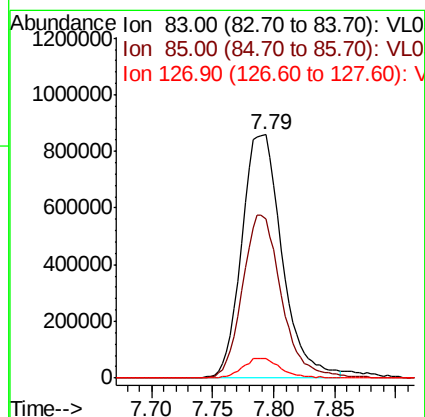
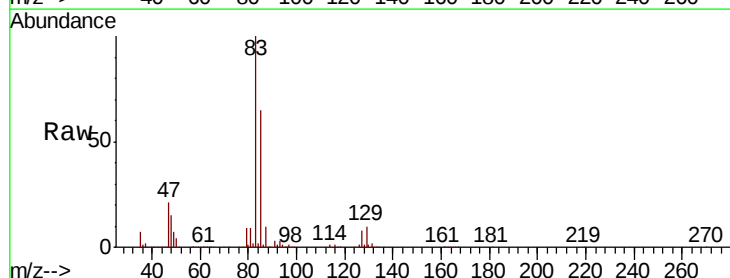
Delta R.T. 0.01 min

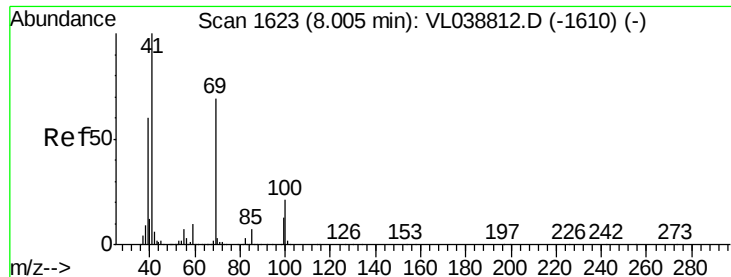
Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

Tgt Ion: 83 Resp: 1963895

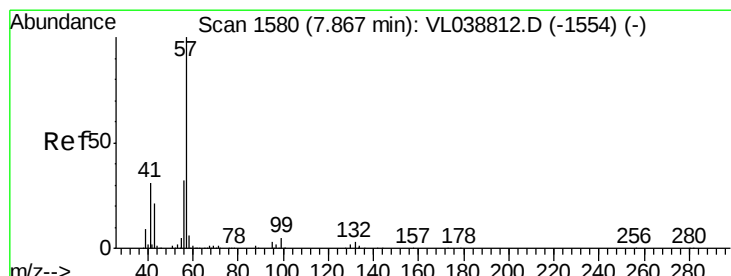
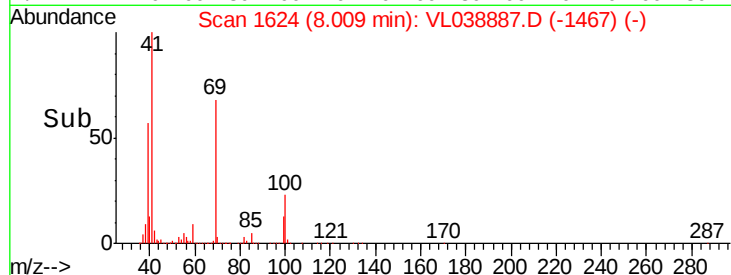
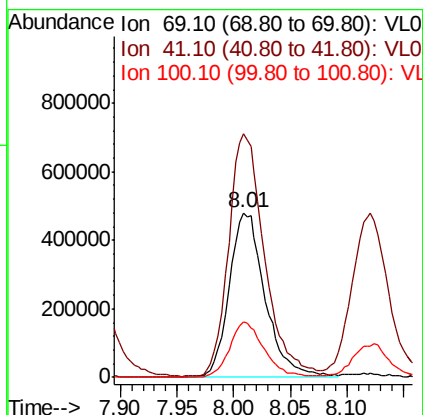
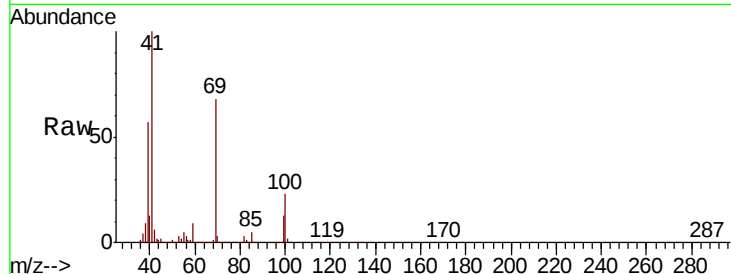
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 65.2  | 51.7  | 77.5  |
| 127 | 8.3   | 5.9   | 8.9   |





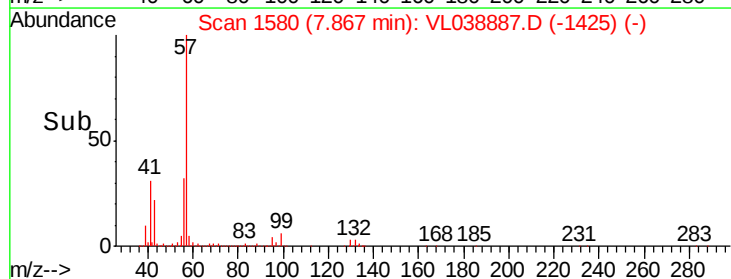
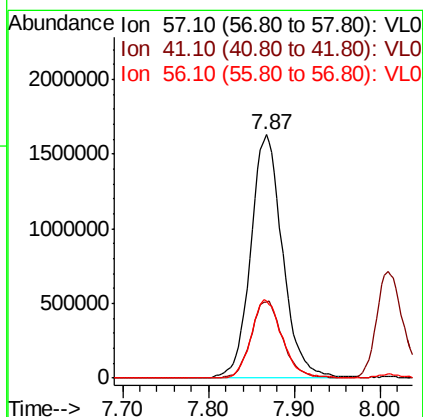
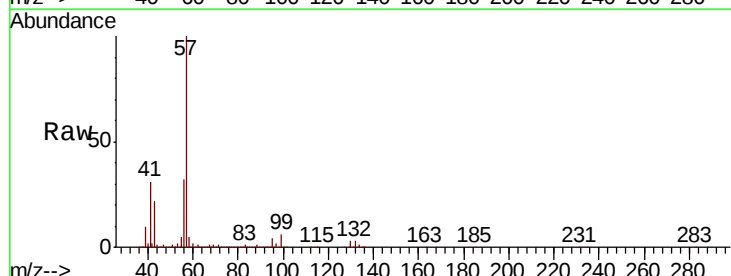
#43  
Methvl Methacrilate  
Concen: 10.244 ppbv  
RT: 8.01  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010EC  
Acq: 12 Apr 2022 9:56

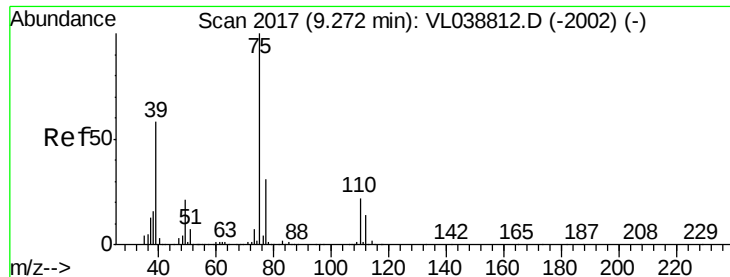
Tot Ion: 69 Resp: 1065180  
Ion Ratio Lower Upper  
69 100  
41 147.2 119.0 178.4  
100 32.5 26.4 39.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.142 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

Tgt Ion: 57 Resp: 4202134  
Ion Ratio Lower Upper  
57 100  
41 31.3 25.0 37.4  
56 31.5 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 9.795 ppbv

RT: 9.28 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

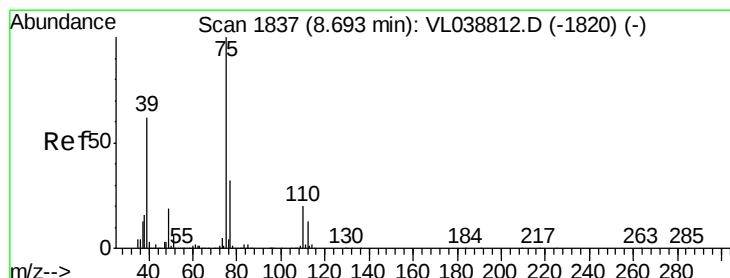
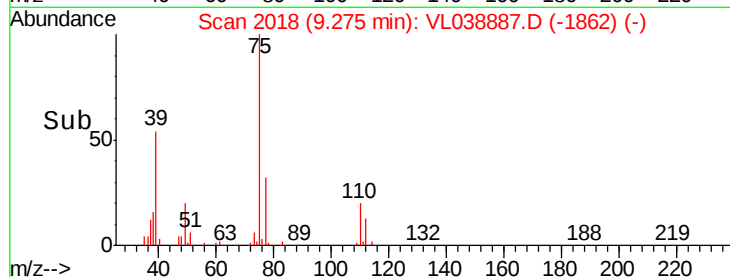
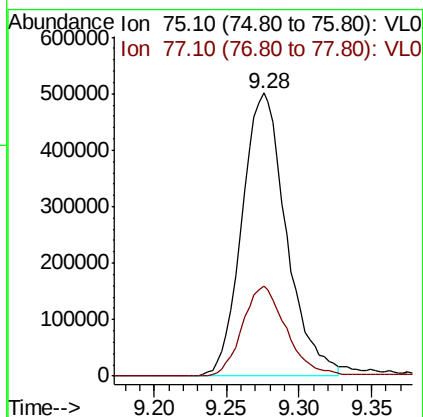
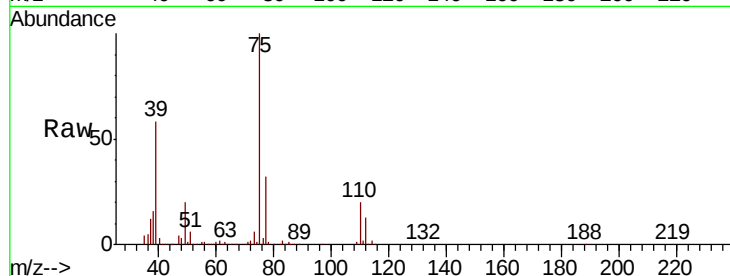
Acq: 12 Apr 2022 9:56 VSTDCCC010EC

Tot Ion: 75 Resp: 1065034

Ion Ratio Lower Upper

75 100

77 32.0 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 9.593 ppbv

RT: 8.70 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

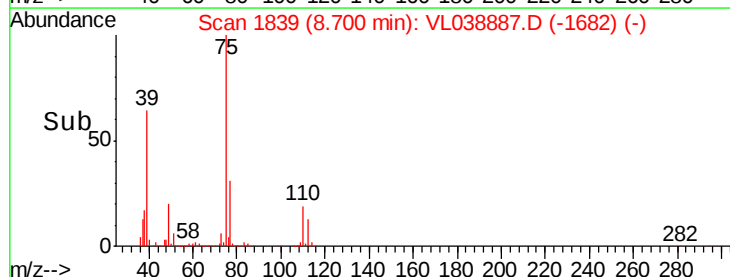
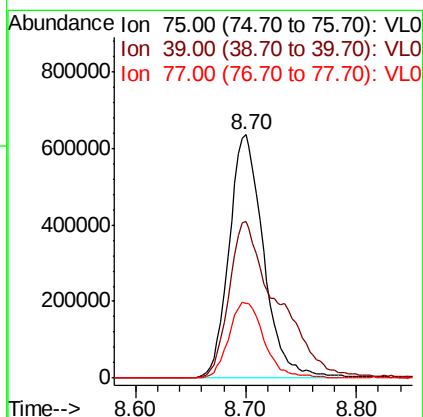
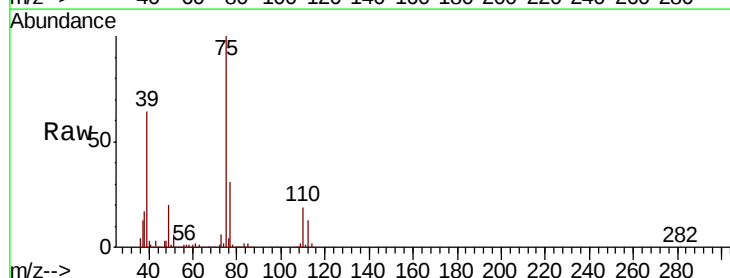
Tgt Ion: 75 Resp: 1375183

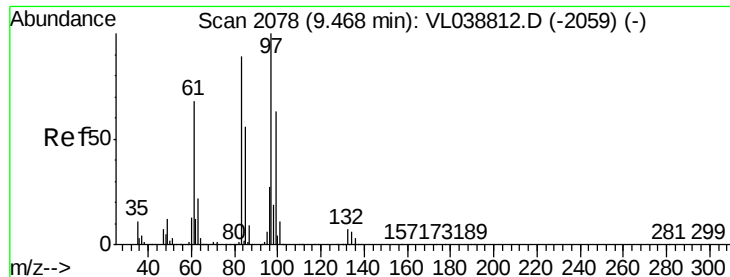
Ion Ratio Lower Upper

75 100

39 64.4 49.7 74.5

77 30.6 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 9.708 ppbv

RT: 9.47 Instrument:

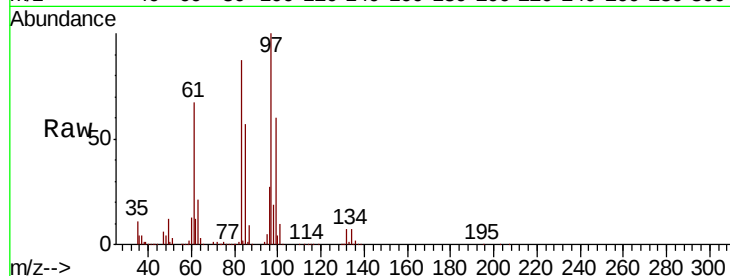
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:56

Tot Ion: 97 Resp: 1033024

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.4  | 71.1  | 106.7 |
| 85  | 57.1  | 45.1  | 67.7  |
| 99  | 60.5  | 50.8  | 76.2  |

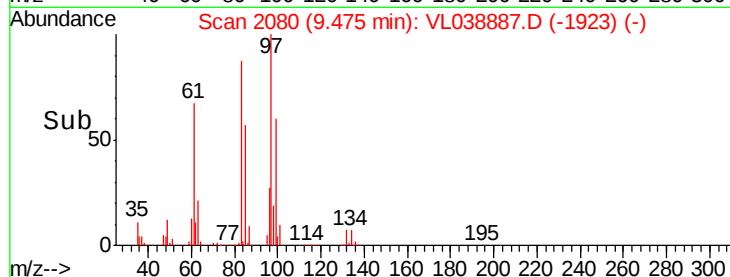
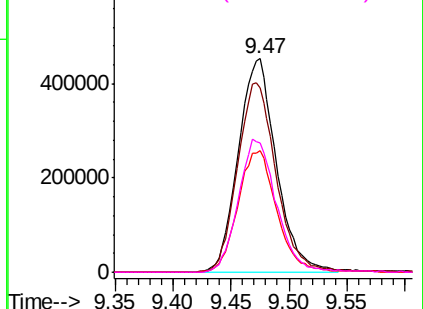


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.041 ppbv

RT: 10.30 min Scan# 2337

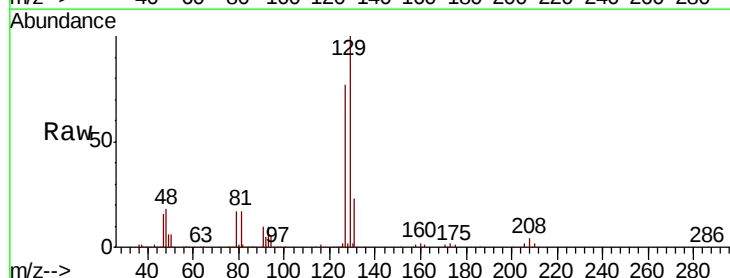
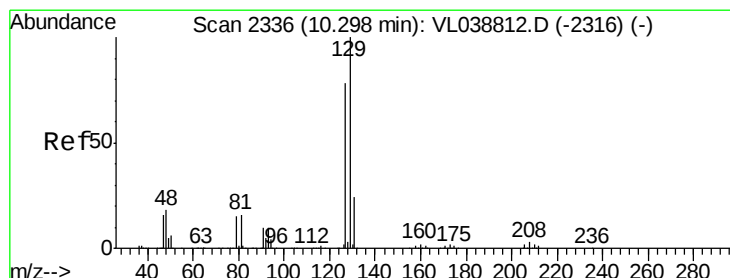
Delta R.T. 0.00 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

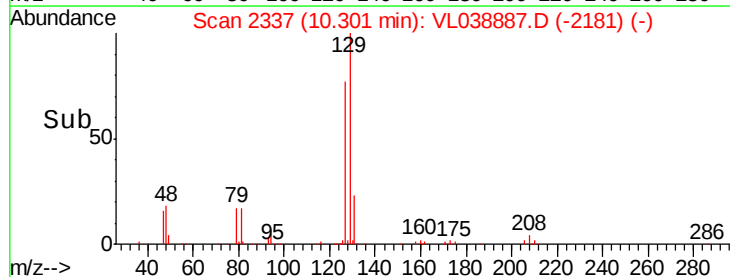
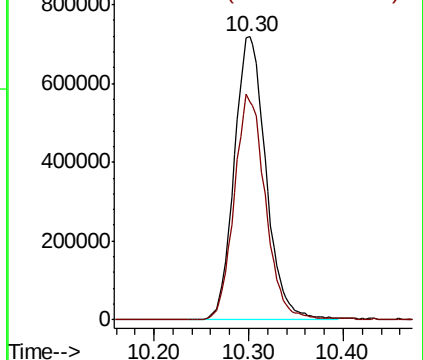
Tgt Ion: 129 Resp: 1674478

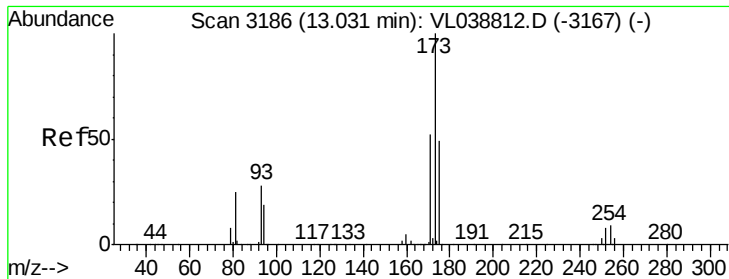
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.3  | 38.9  | 116.6 |



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.272 ppbv

RT: 13.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 12 Apr 2022 9:56

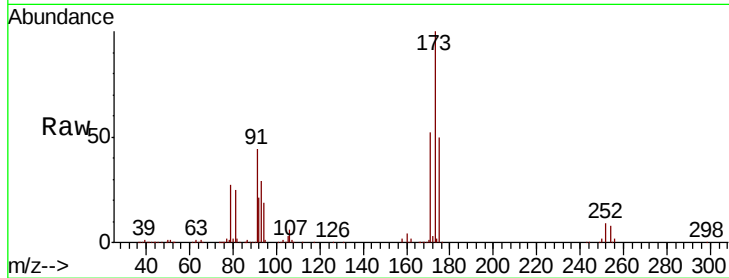
Tot Ion:173 Resp: 1356816

Ion Ratio Lower Upper

173 100

175 49.3 39.9 59.9

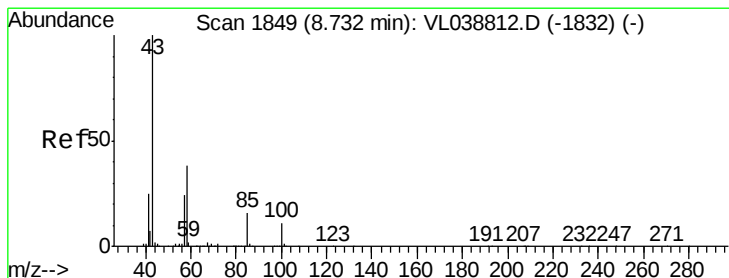
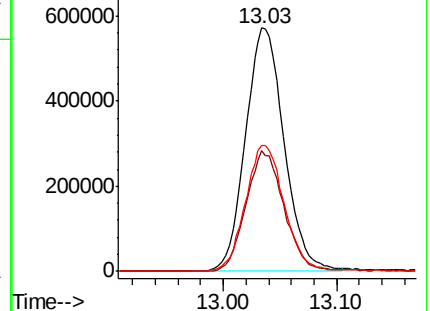
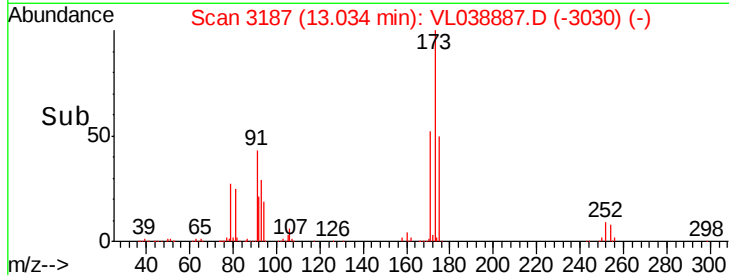
171 53.1 43.4 65.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.972 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. 0.01 min

Lab File: VL038887.D

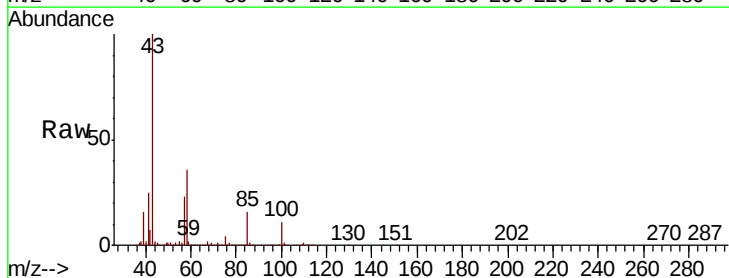
Acq: 12 Apr 2022 9:56

Tgt Ion: 43 Resp: 2645037

Ion Ratio Lower Upper

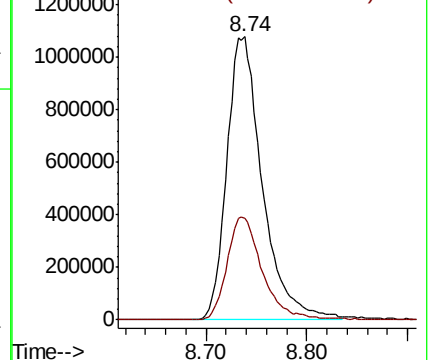
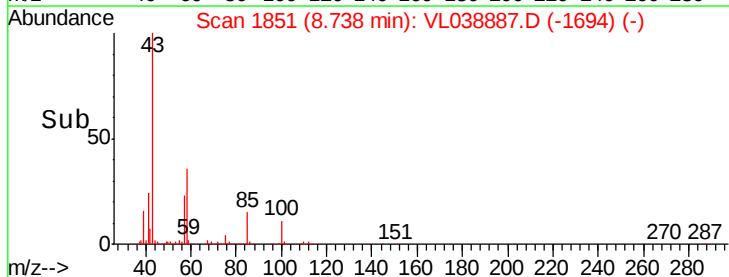
43 100

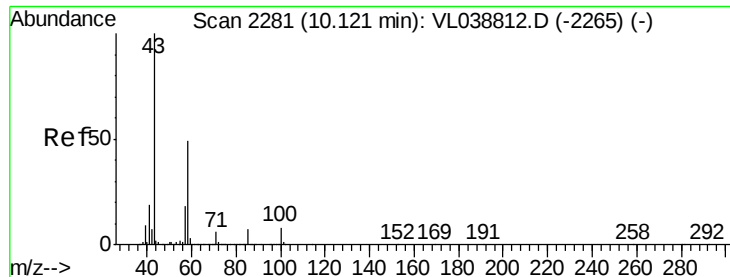
58 36.5 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

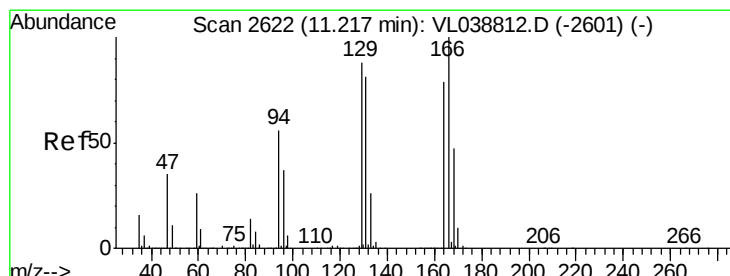
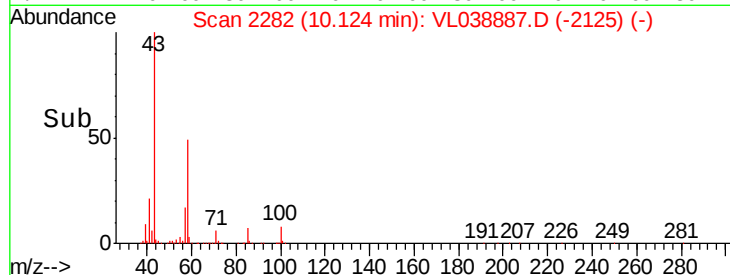
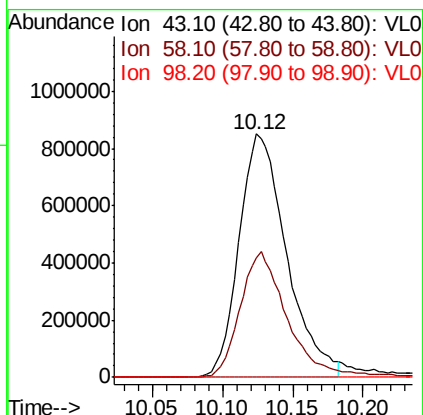
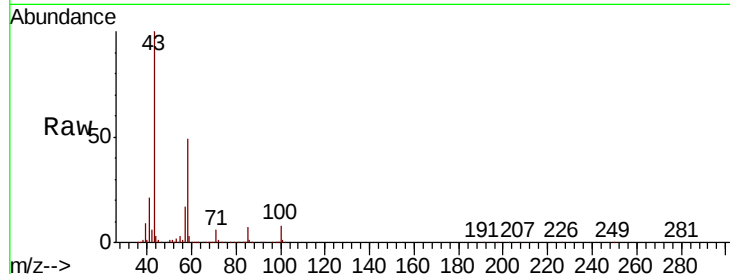
Ion 58.10 (57.80 to 58.80): VL0





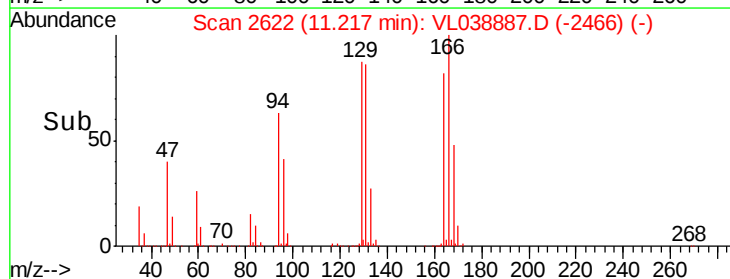
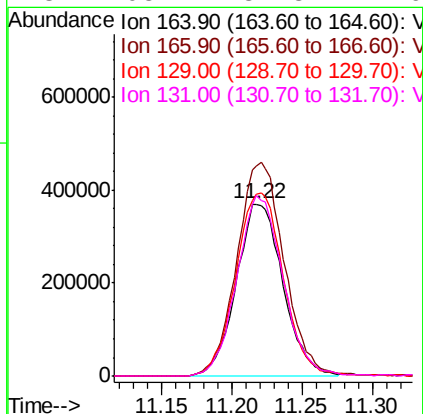
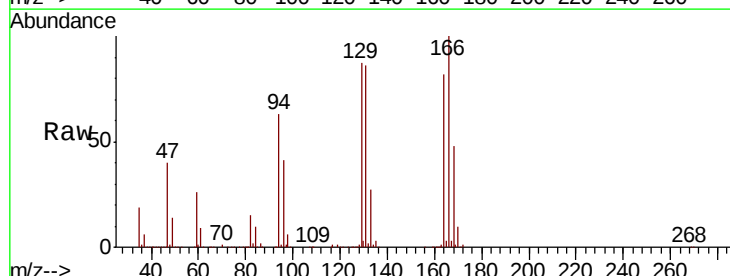
#51  
2-Hexanone  
Concen: 10.013 ppbv  
RT: 10.12 min  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 12 Apr 2022 9:56

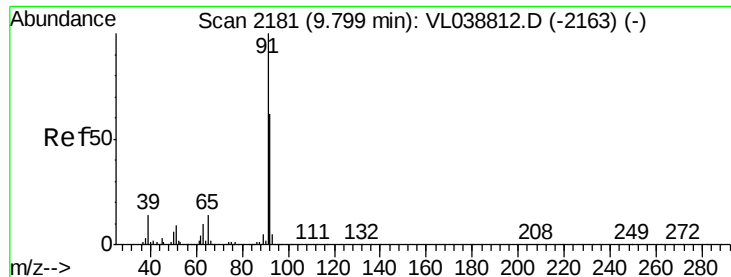
Tot Ion: 43 Resp: 2001215  
Ion Ratio Lower Upper  
43 100  
58 52.4 41.4 62.0  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 8.969 ppbv  
RT: 11.22 min Scan# 2622  
Delta R.T.: -0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

Tgt Ion: 164 Resp: 850545  
Ion Ratio Lower Upper  
164 100  
166 121.8 101.0 151.6  
129 105.6 88.7 133.1  
131 105.1 81.8 122.6





#53

Toluene

Concen: 9.434 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

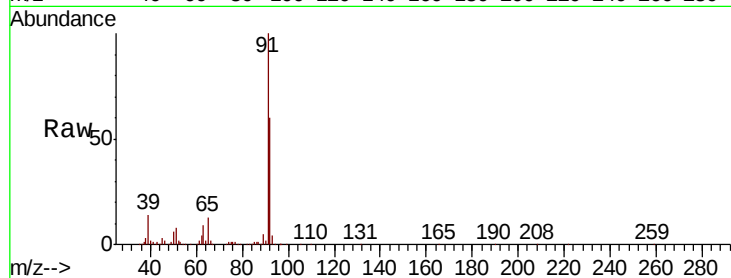
Acq: 12 Apr 2022 9:50 VSTDCCC010EC

Tot Ion: 91 Resp: 2956811

Ion Ratio Lower Upper

91 100

92 60.6 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

1500000 Ion 92.10 (91.80 to 92.80): VL0

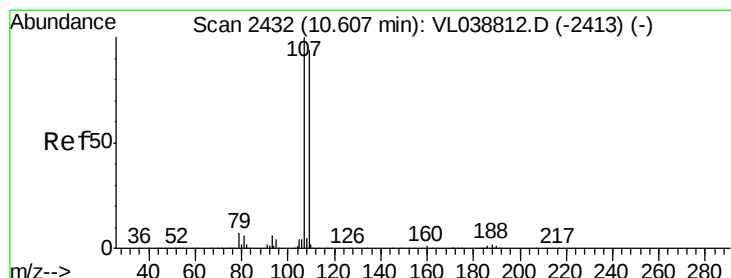
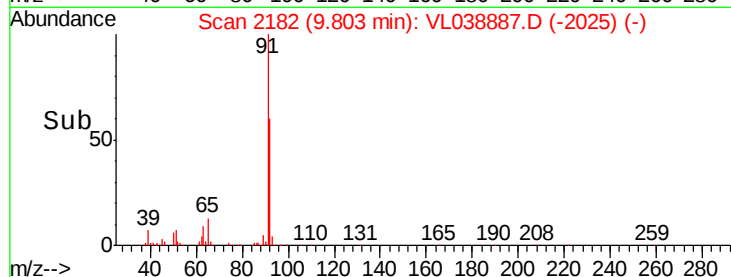
9.80

1000000

500000

0

Time--> 9.70 9.80 9.90



#54

1,2-Dibromoethane

Concen: 10.055 ppbv

RT: 10.61 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL038887.D

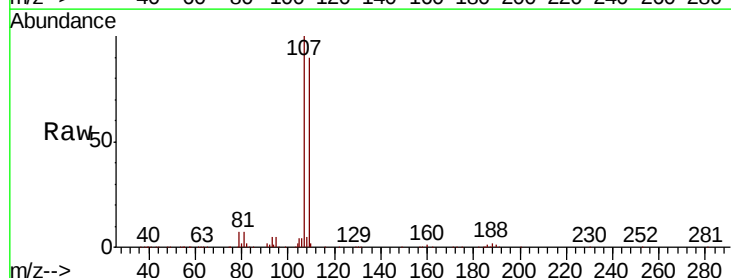
Acq: 12 Apr 2022 9:56

Tgt Ion:107 Resp: 1486181

Ion Ratio Lower Upper

107 100

109 90.3 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.61

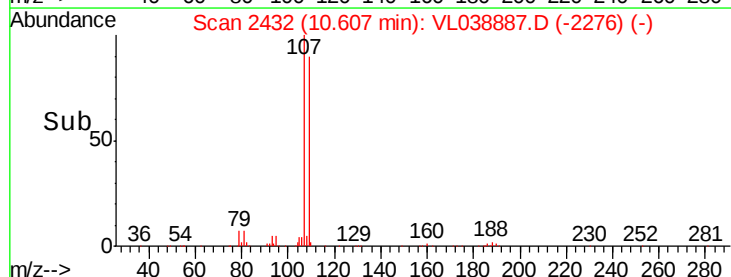
600000

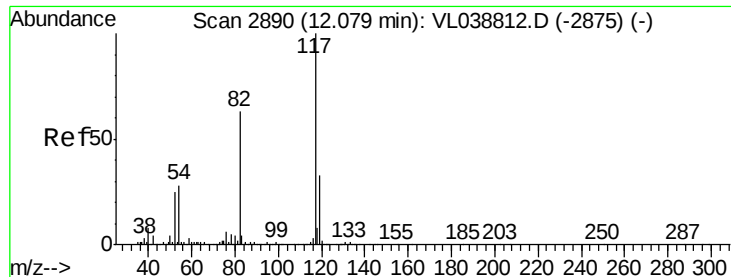
400000

200000

0

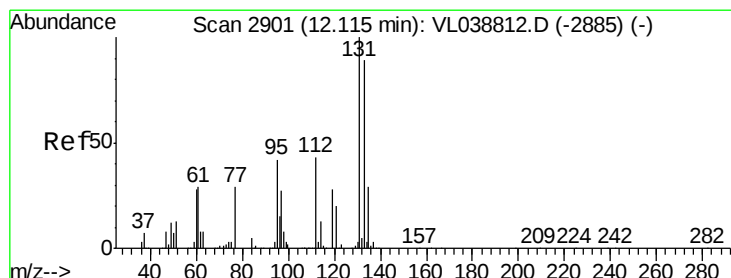
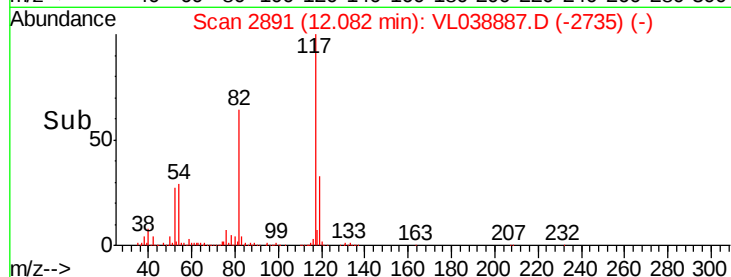
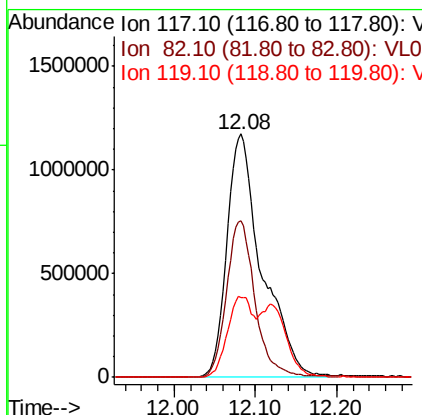
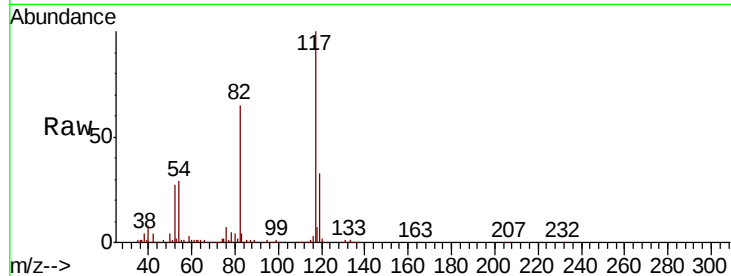
Time--> 10.50 10.60 10.70





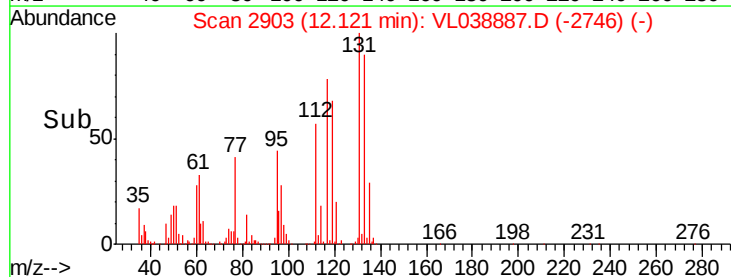
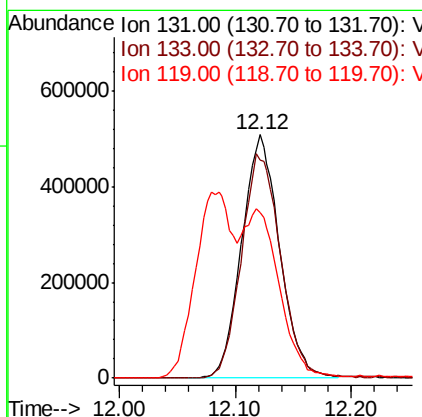
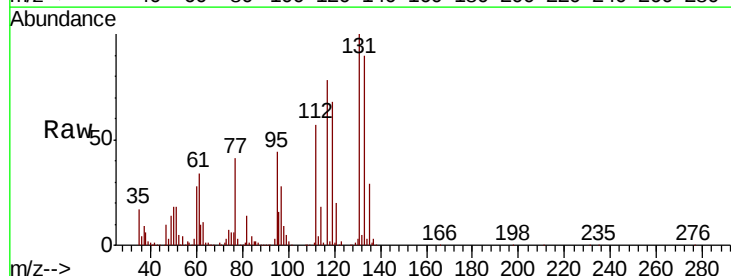
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 12 Apr 2022 9:56

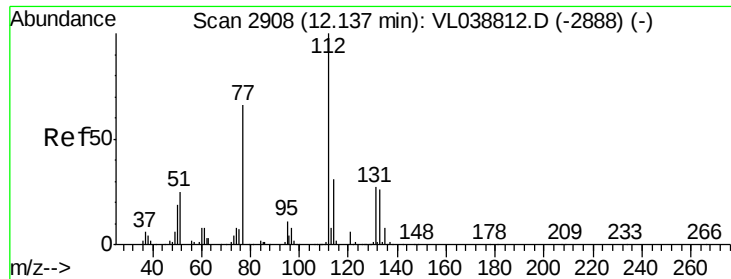
Tot Ion:117 Resp: 3543302  
Ion Ratio Lower Upper  
117 100  
82 53.2 53.0 79.6  
119 47.4 24.9 37.3#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.428 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T.: 0.01 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

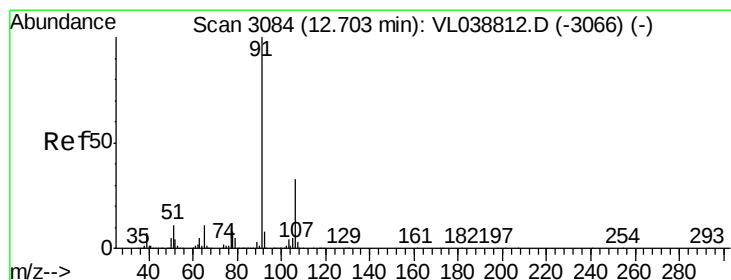
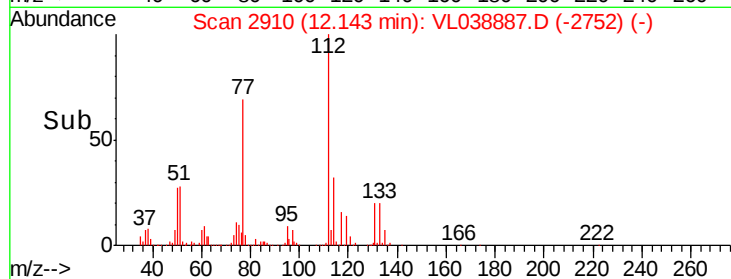
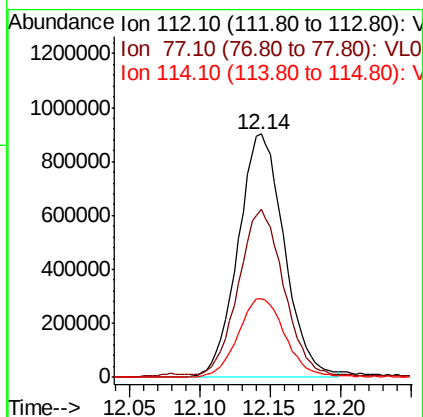
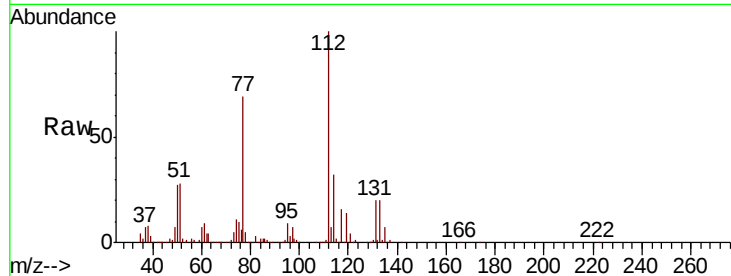
Tgt Ion:131 Resp: 1153415  
Ion Ratio Lower Upper  
131 100  
133 96.4 78.2 117.4  
119 145.5 58.6 87.8#





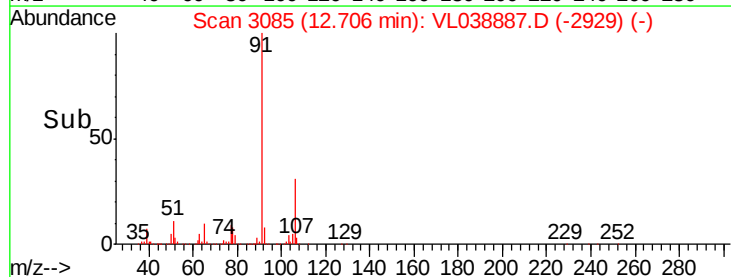
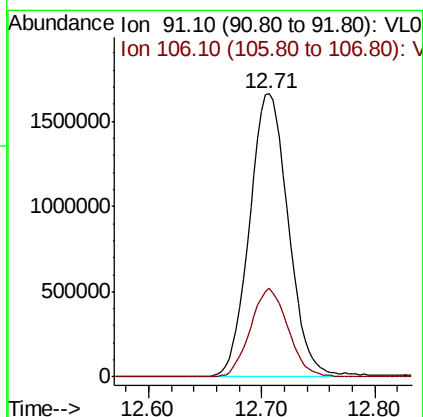
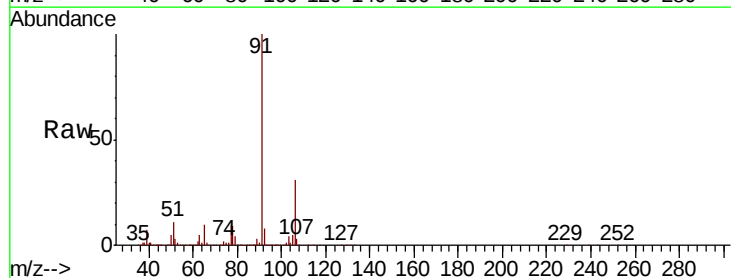
#57  
Chlorobenzene  
Concen: 7.105 ppbv  
RT: 12.14 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
VSTDCCC010EC  
Acq: 12 Apr 2022 9:56

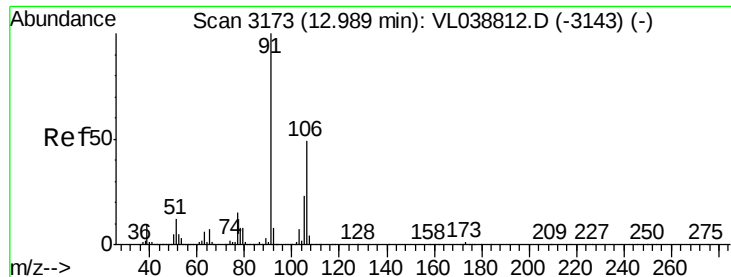
Tot Ion: 112 Resp: 2061916  
Ion Ratio Lower Upper  
112 100  
77 68.0 52.4 78.6  
114 32.1 28.1 34.3



#58  
Ethyl Benzene  
Concen: 7.467 ppbv  
RT: 12.71 min Scan# 3085  
Delta R.T.: 0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

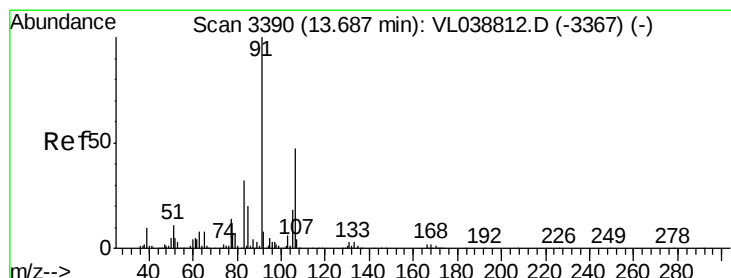
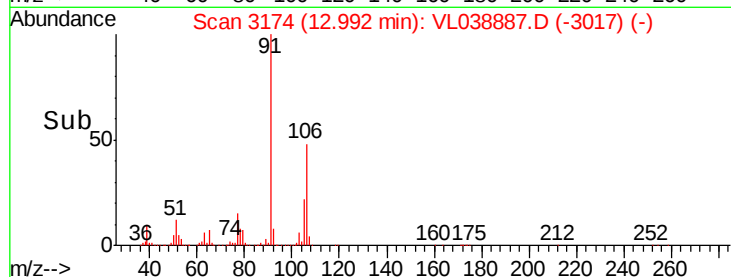
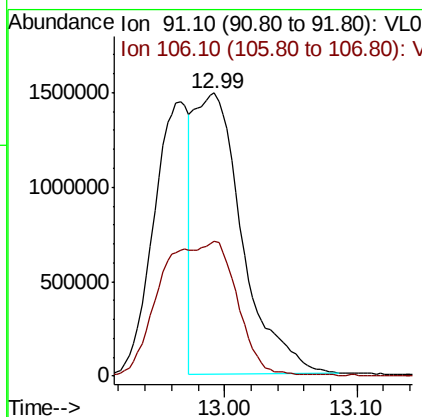
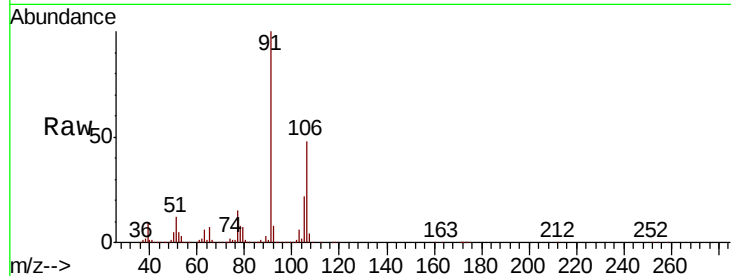
Tgt Ion: 91 Resp: 3953788  
Ion Ratio Lower Upper  
91 100  
106 31.3 26.7 40.1





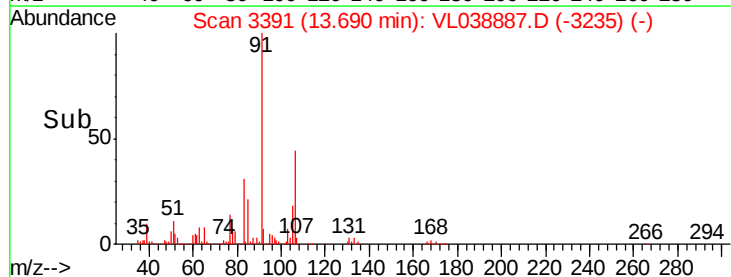
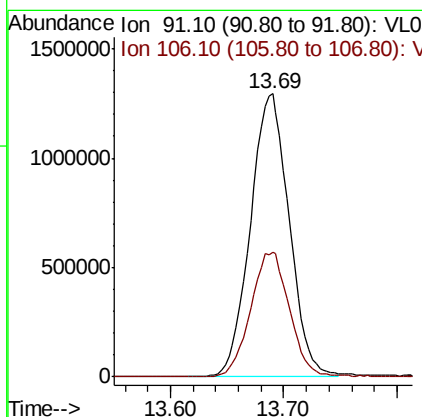
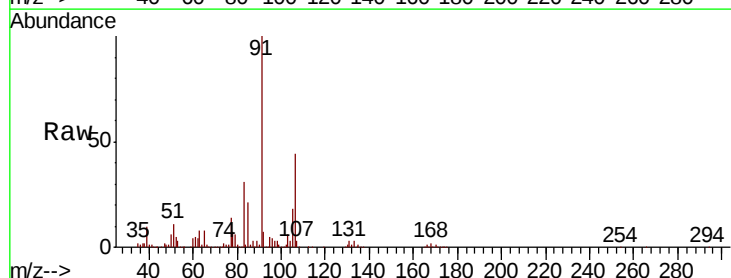
#59  
m/p-Xylene  
Concen: 8.431 ppbv  
RT: 12.99 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 12 Apr 2022 9:58

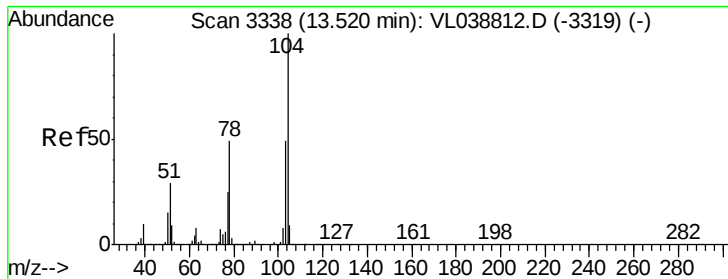
Tot Ion: 91 Resp: 3750364  
Ion Ratio Lower Upper  
91 100  
106 76.1 37.1 55.7#



#60  
o-Xylene  
Concen: 7.399 ppbv  
RT: 13.69 min Scan# 3391  
Delta R.T. 0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

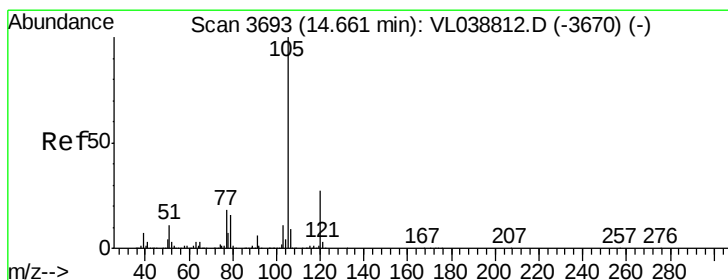
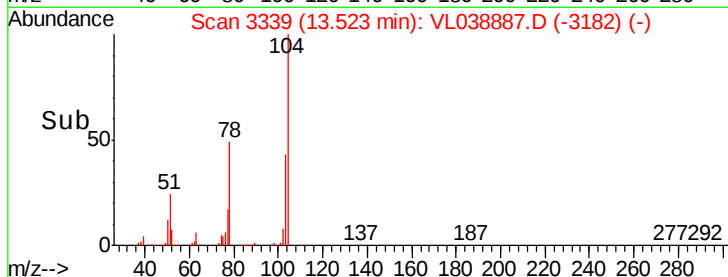
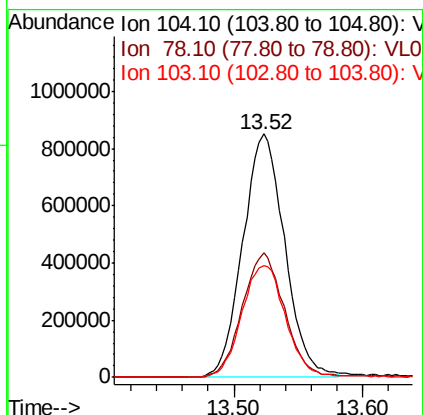
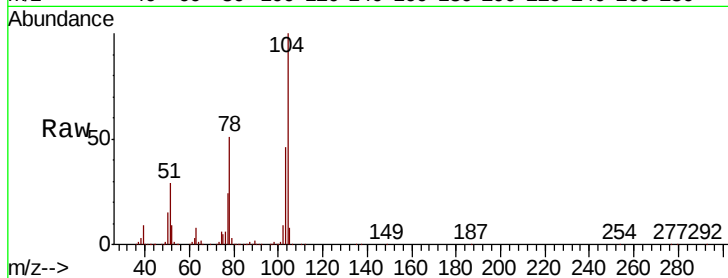
Tgt Ion: 91 Resp: 3079603  
Ion Ratio Lower Upper  
91 100  
106 44.4 23.8 71.4





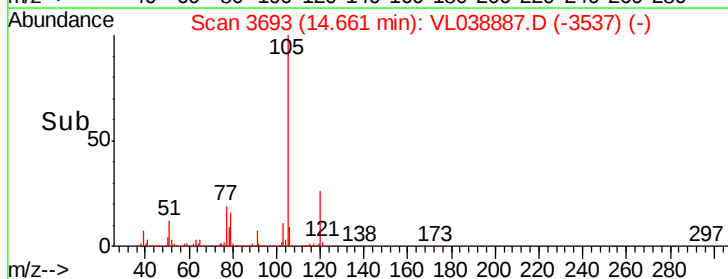
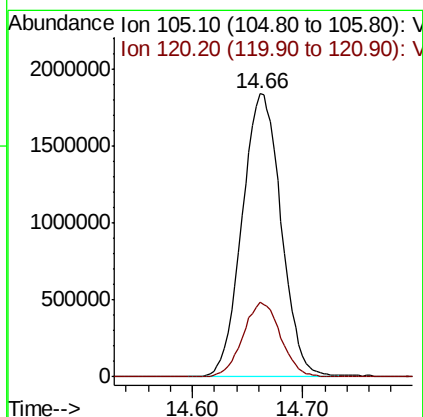
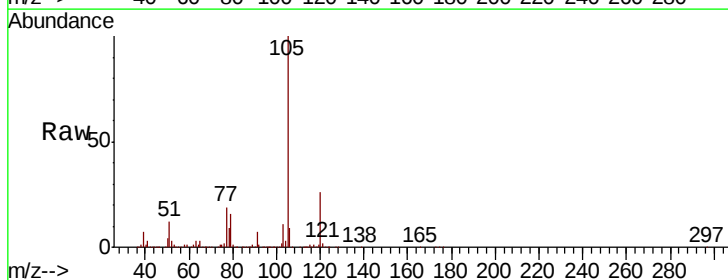
#61  
Stvrene  
Concen: 7.621 ppbv  
RT: 13.52  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 12 Apr 2022 9:58

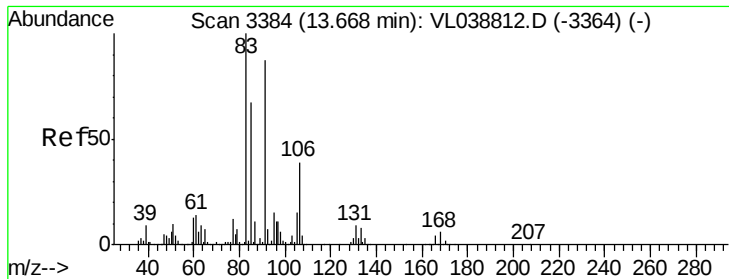
Tot Ion:104 Resp: 1932535  
Ion Ratio Lower Upper  
104 100  
78 51.6 40.5 60.7  
103 48.5 39.0 58.4



#62  
Isopropylbenzene  
Concen: 7.228 ppbv  
RT: 14.66 min Scan# 3693  
Delta R.T. -0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

Tgt Ion:105 Resp: 4515539  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.8 32.8

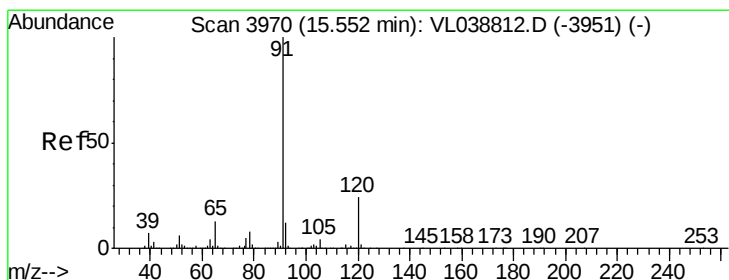
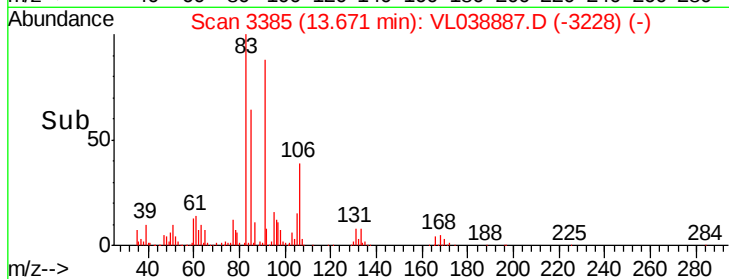
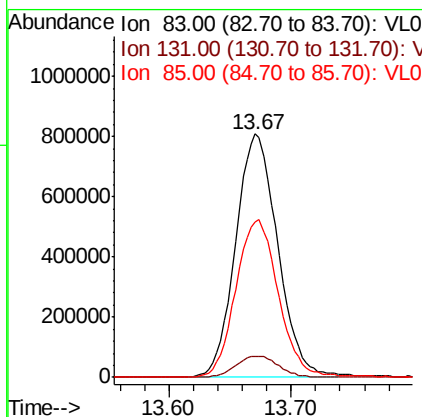
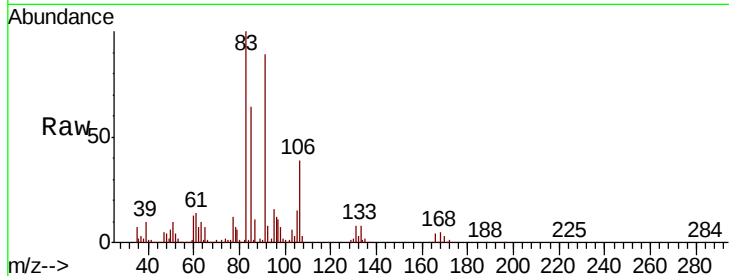




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.269 ppbv  
 RT: 13.67 min  
 Delta R.T. 0.00 min  
 Lab File: VL038812.D  
 Acq: 12 Apr 2022 9:56

Tot Ion: 83 Resp: 1916393

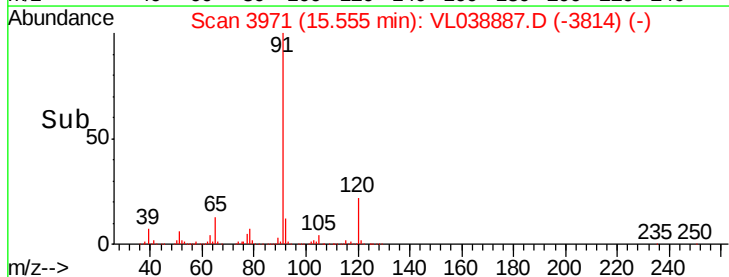
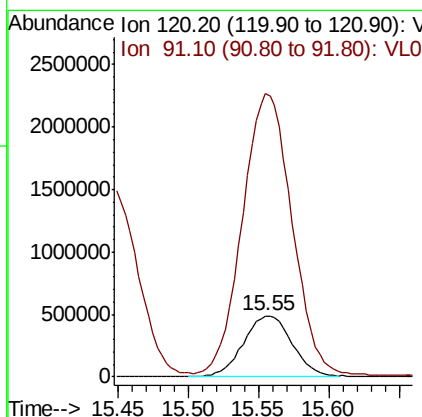
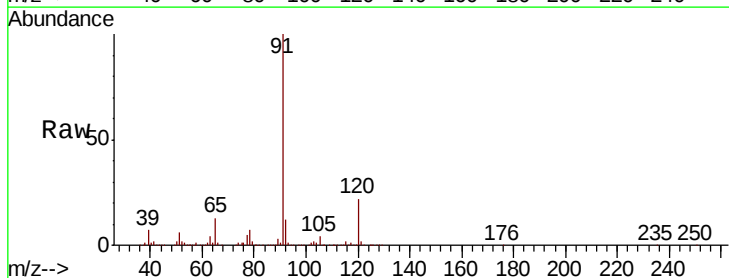
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.2   | 4.6   | 13.8  |
| 85  | 66.4  | 33.0  | 99.0  |

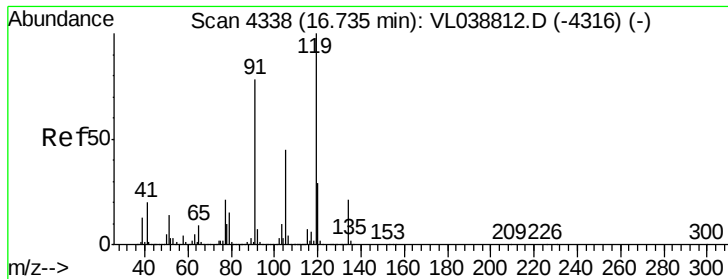


#64  
 n-propylbenzene  
 Concen: 7.228 ppbv  
 RT: 15.55 min Scan# 3971  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 120 Resp: 1172511

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 481.7 | 360.6 | 540.8 |

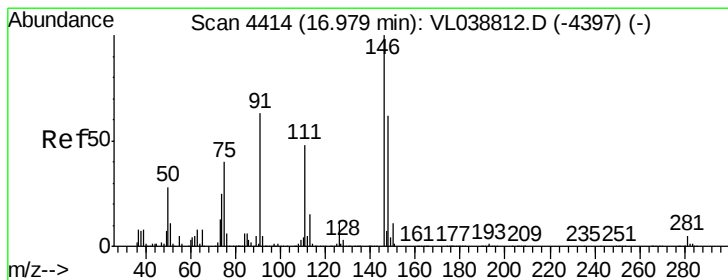
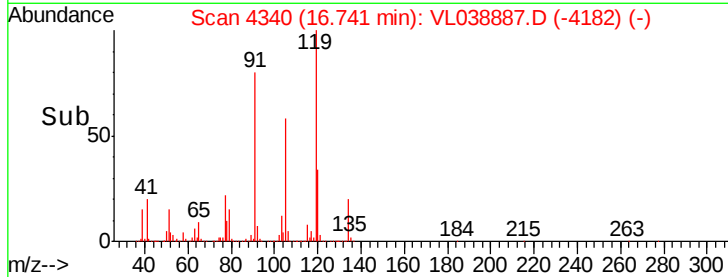
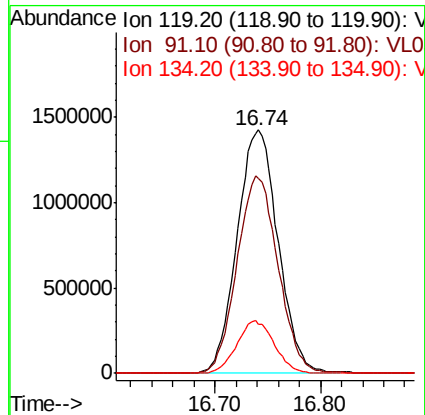
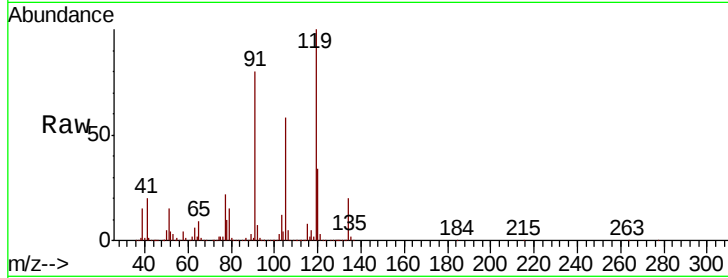




#65  
 tert-Butylbenzene  
 Concen: 6.935 ppbv  
 RT: 16.74 min  
 Delta R.T. 0.01 min  
 Lab File: VL038812.D  
 Acq: 12 Apr 2022 9:56

Tot Ion: 119 Resp: 3843977

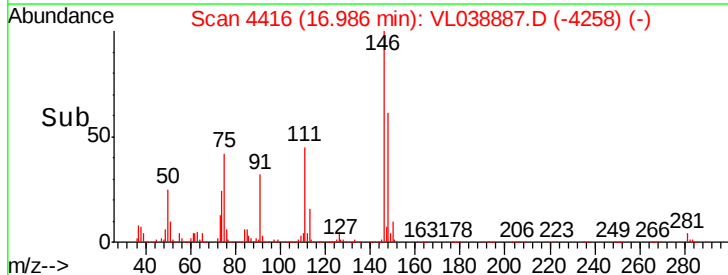
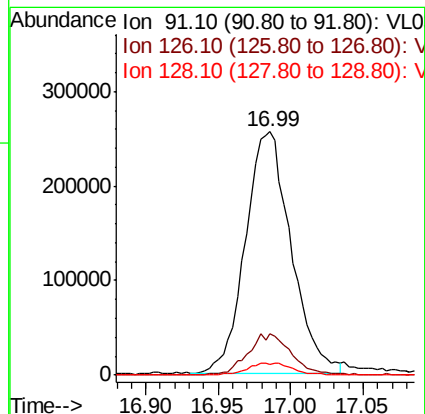
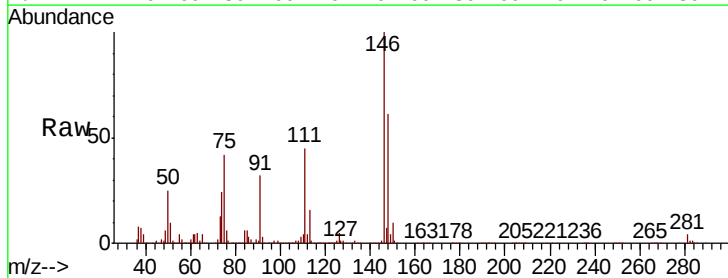
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 81.7  | 62.8  | 94.2  |
| 134 | 20.0  | 16.2  | 24.4  |

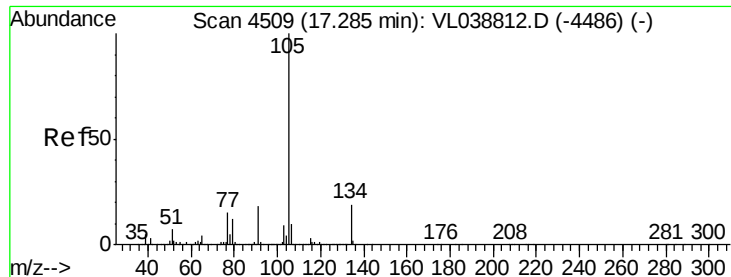


#66  
 Benzyl Chloride  
 Concen: 4.981 ppbv  
 RT: 16.99 min Scan# 4416  
 Delta R.T. 0.01 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 91 Resp: 562109

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 16.9  | 15.4  | 23.0  |
| 128 | 5.1   | 4.7   | 7.1   |





#67

sec-Butylbenzene

Concen: 7.235 ppbv

RT: 17.29

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

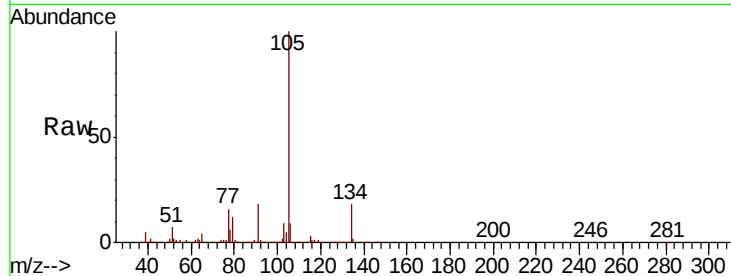
Acq: 12 Apr 2022 9:56

Tot Ion:105 Resp: 5627736

Ion Ratio Lower Upper

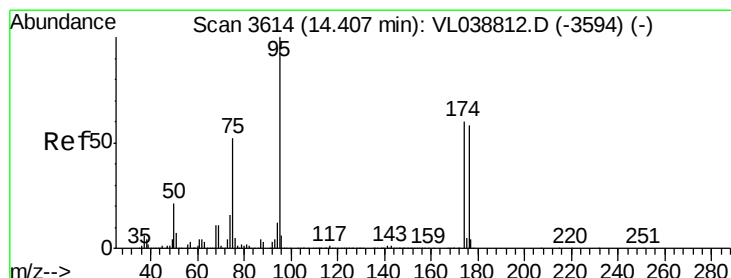
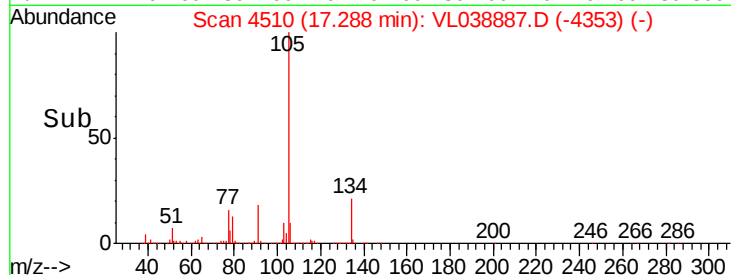
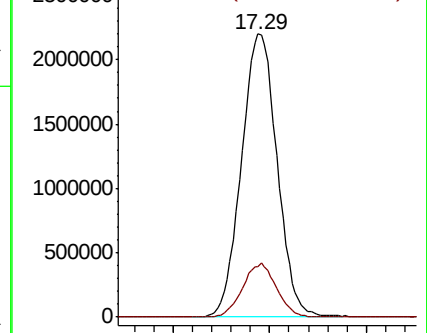
105 100

134 18.1 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.449 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

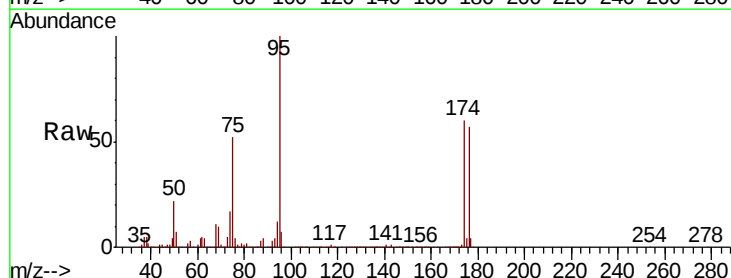
Tgt Ion: 95 Resp: 2270745

Ion Ratio Lower Upper

95 100

174 60.7 52.0 78.0

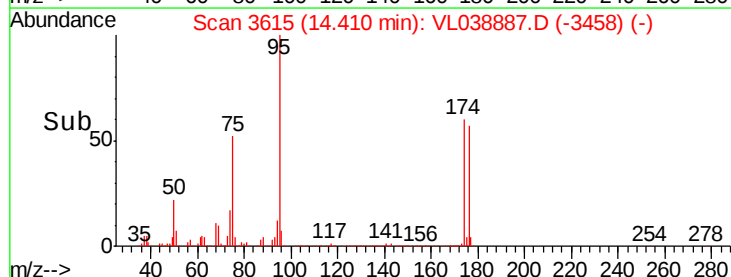
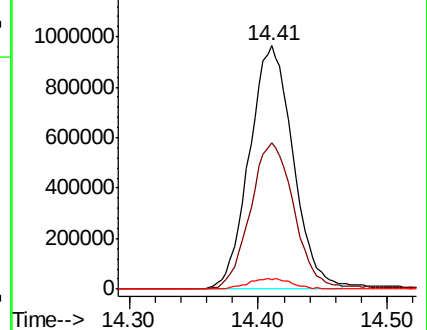
175 4.7 4.0 6.0

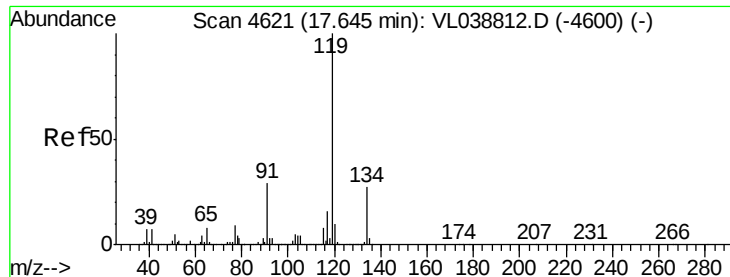


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

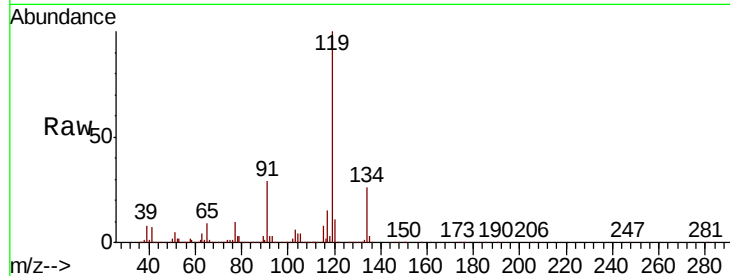
Ion 175.00 (174.70 to 175.70): V



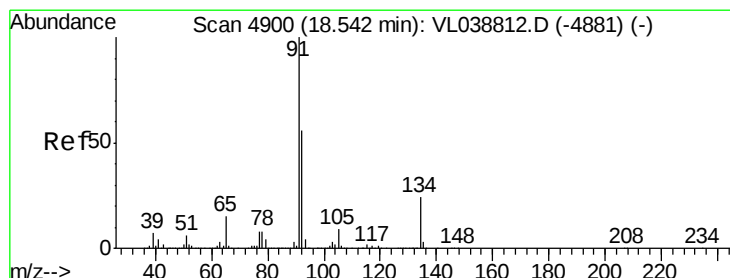
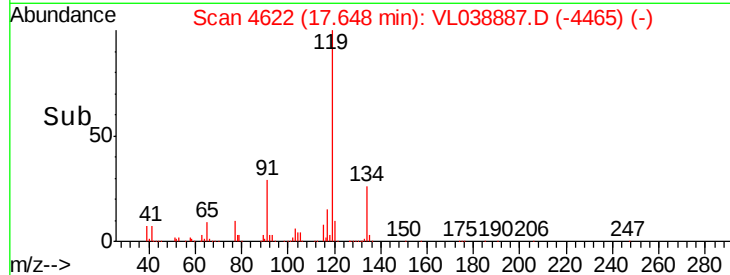
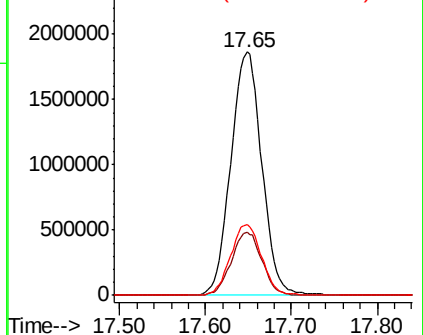


#69  
 p-Isopropyltoluene  
 Concen: 7.296 ppbv  
 RT: 17.65 min  
 Delta R.T. 0.00 min  
 Lab File: VL038812.D  
 Acq: 12 Apr 2022 9:56

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 4659414 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 134      | 25.8  | 20.8  | 31.2    |
| 91       | 29.0  | 22.6  | 34.0    |

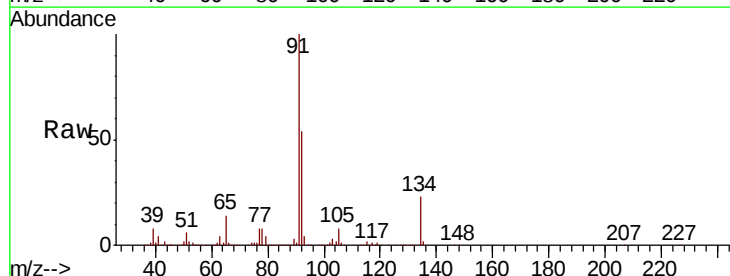


Abundance Ion 119.10 (118.80 to 119.80): VL038812.D (-4600) (-)  
 Ion 134.20 (133.90 to 134.90): VL038812.D (-4600) (-)  
 Ion 91.10 (90.80 to 91.80): VL038812.D (-4600) (-)

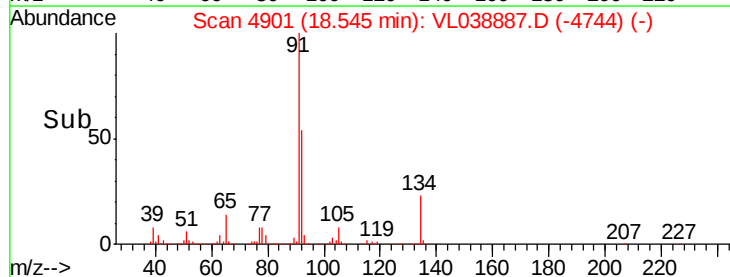
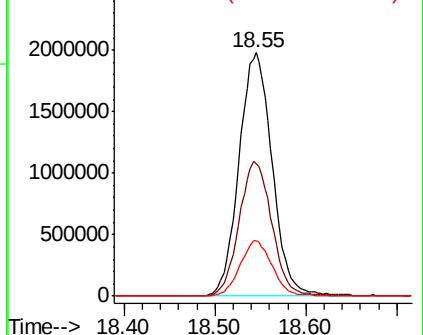


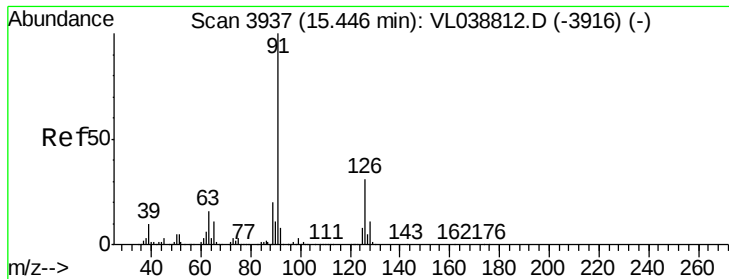
#70  
 n-Butylbenzene  
 Concen: 7.759 ppbv  
 RT: 18.55 min Scan# 4901  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 4991734 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 55.0  | 44.6  | 66.8    |
| 134      | 22.3  | 19.2  | 28.8    |



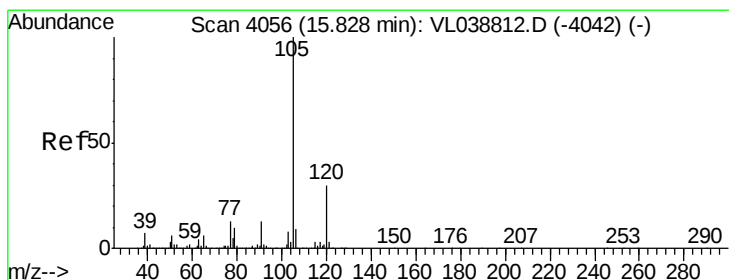
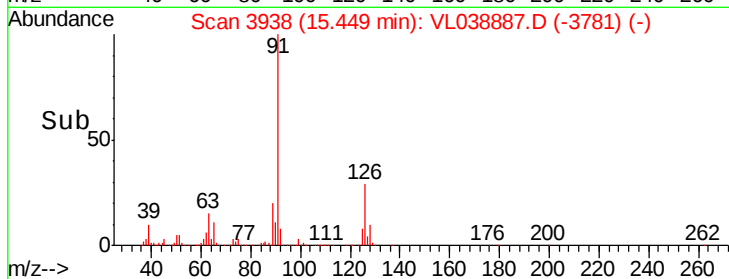
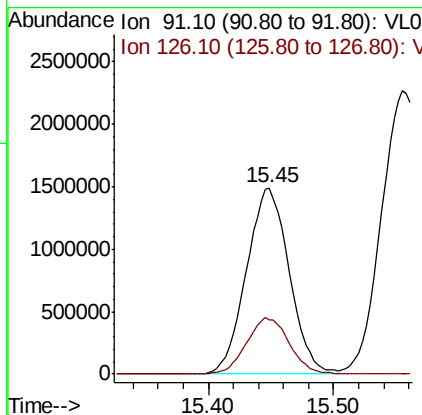
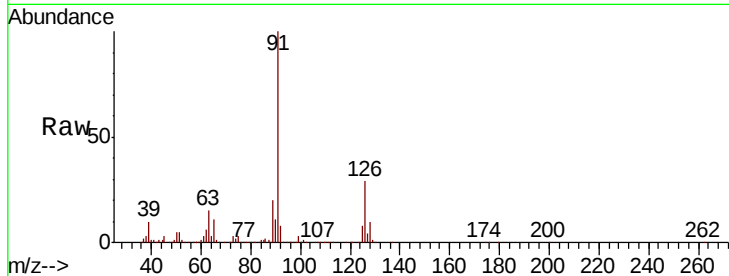
Abundance Ion 91.10 (90.80 to 91.80): VL038812.D (-4881) (-)  
 Ion 92.10 (91.80 to 92.80): VL038812.D (-4881) (-)  
 Ion 134.20 (133.90 to 134.90): VL038812.D (-4881) (-)





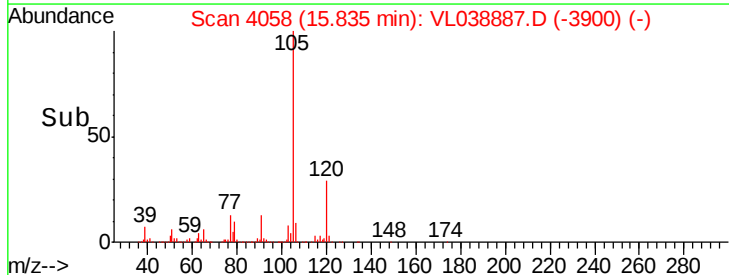
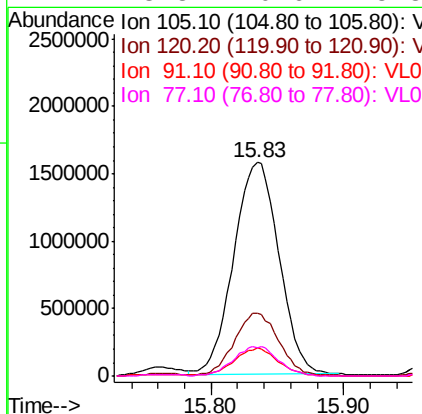
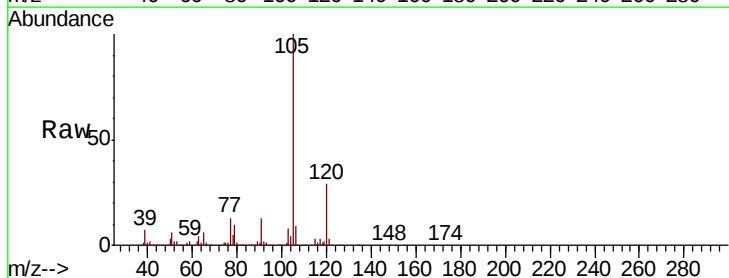
#71  
 2-Chlorotoluene  
 Concen: 7.527 ppbv  
 RT: 15.45 min  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:58

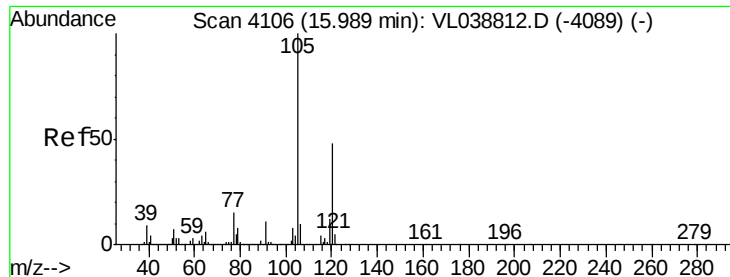
Tot Ion: 91 Resp: 3535946  
 Ion Ratio Lower Upper  
 91 100  
 126 30.5 13.0 51.8



#72  
 4-Ethyltoluene  
 Concen: 7.548 ppbv  
 RT: 15.83 min Scan# 4058  
 Delta R.T.: 0.01 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion: 105 Resp: 3751659  
 Ion Ratio Lower Upper  
 105 100  
 120 29.4 24.3 36.5  
 91 12.8 9.4 14.2  
 77 13.8 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 7.535 ppbv

RT: 15.99 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

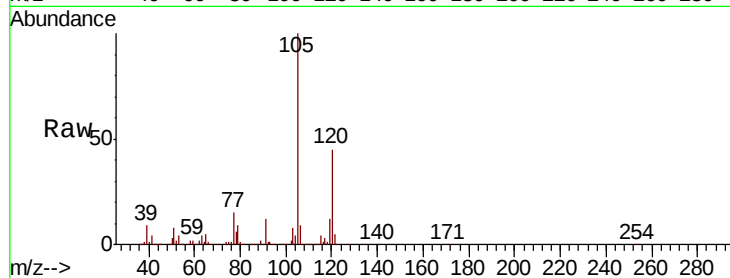
Acq: 12 Apr 2022 9:58

Tot Ion:105 Resp: 3364337

Ion Ratio Lower Upper

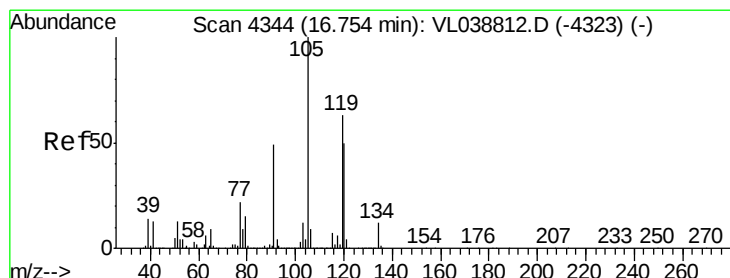
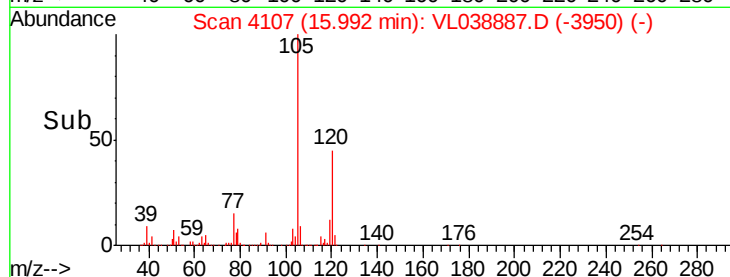
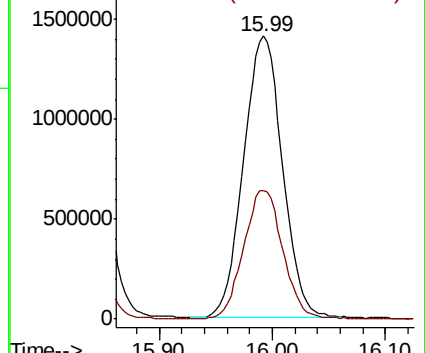
105 100

120 45.4 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.362 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.01 min

Lab File: VL038887.D

Acq: 12 Apr 2022 9:56

Tgt Ion:105 Resp: 3475068

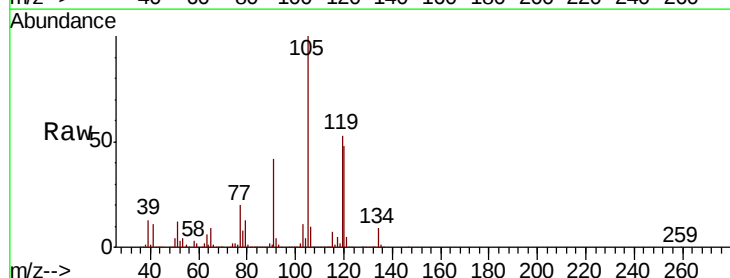
Ion Ratio Lower Upper

105 100

120 48.2 39.8 59.8

91 41.7 39.4 59.0

77 20.3 17.3 25.9

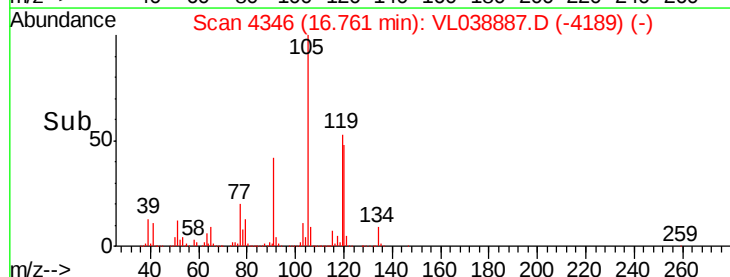
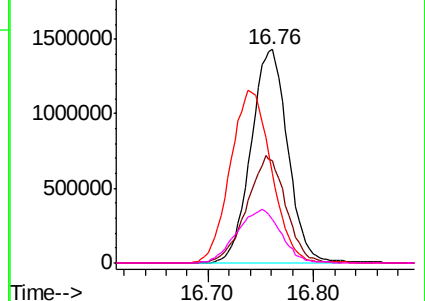


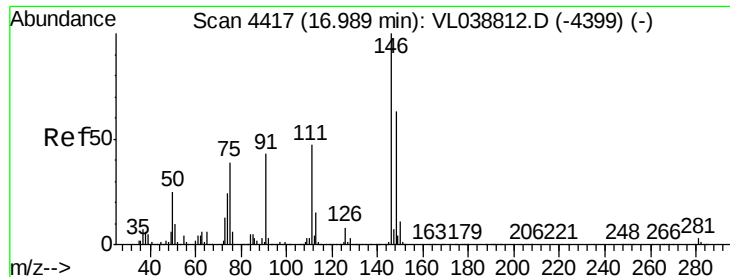
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

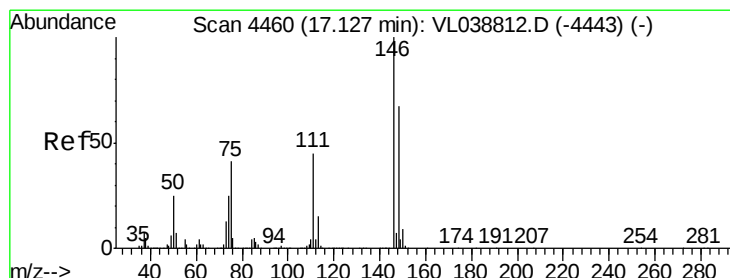
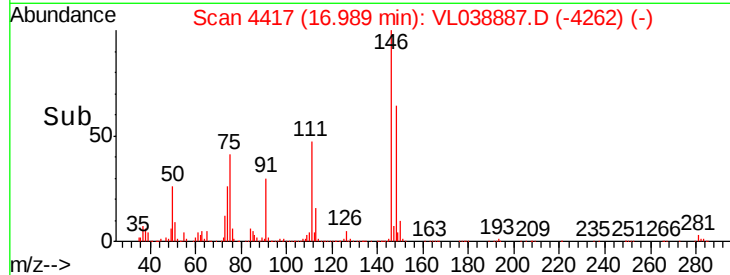
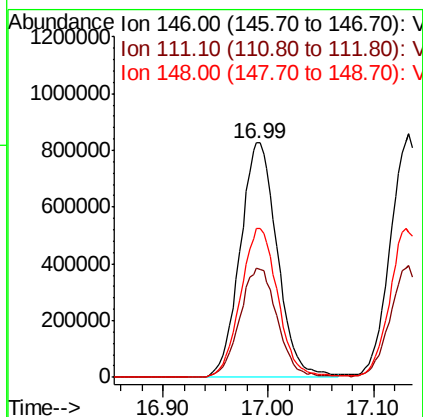
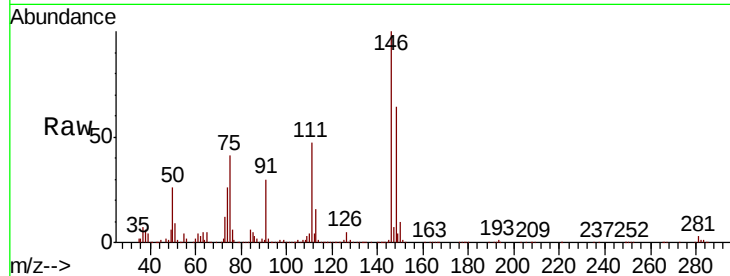




#75  
 1,3-Dichlorobenzene  
 Concen: 7.384 ppbv  
 RT: 16.99 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:56

Tot Ion:146 Resp: 2023708

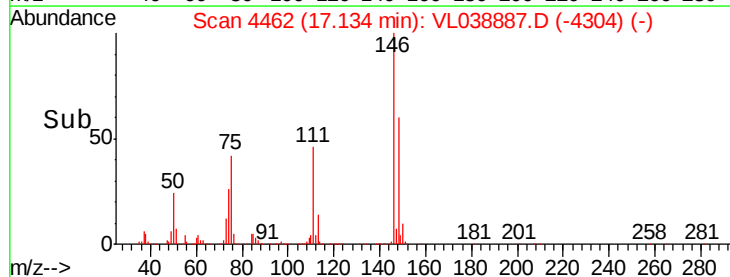
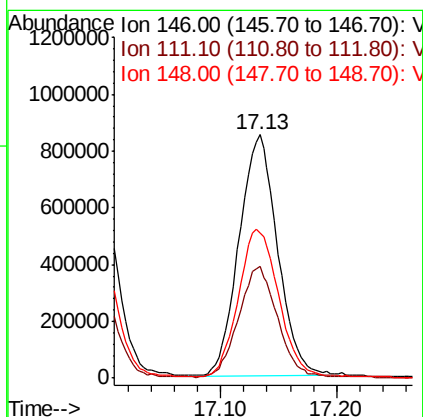
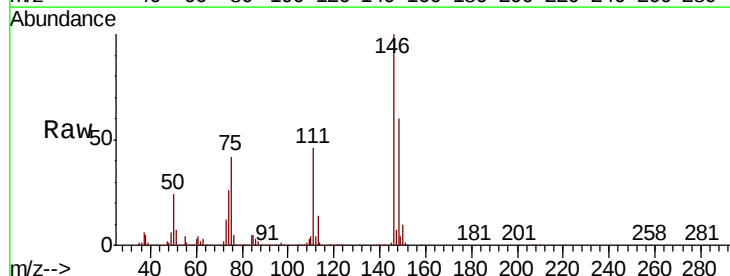
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 47.1  | 23.8  | 71.2  |
| 148 | 63.7  | 31.8  | 95.4  |

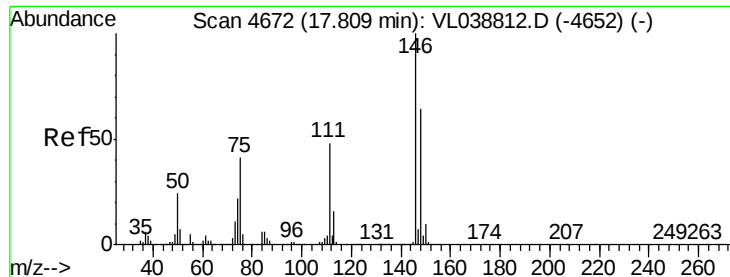


#76  
 1,4-Dichlorobenzene  
 Concen: 7.264 ppbv  
 RT: 17.13 min Scan# 4462  
 Delta R.T. 0.01 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion:146 Resp: 1960821

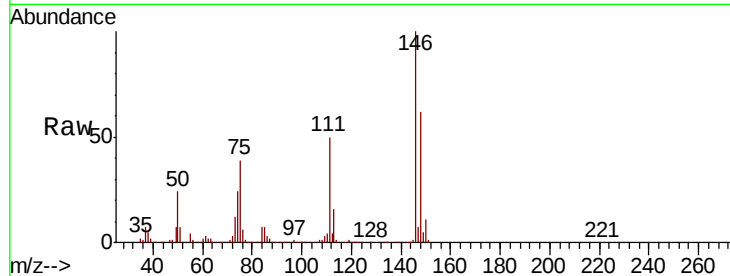
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 47.9  | 23.6  | 70.8  |
| 148 | 65.6  | 33.6  | 100.6 |



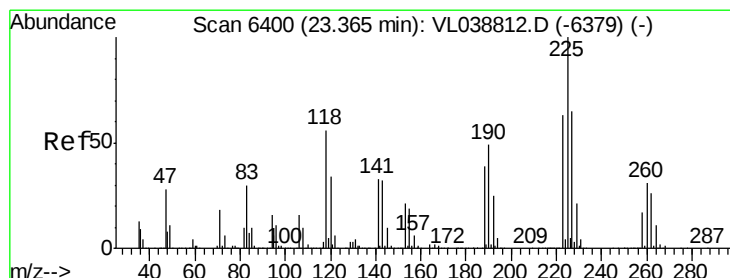
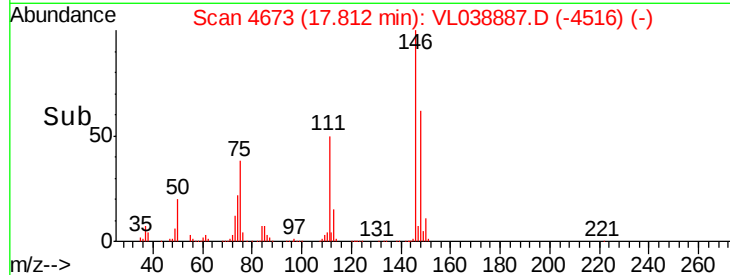
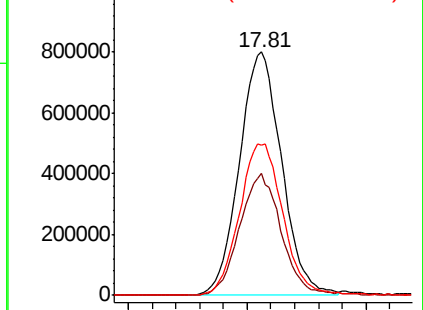


#77  
 1,2-Dichlorobenzene  
 Concen: 7.271 ppbv  
 RT: 17.81 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:58

Tot Ion:146 Resp: 1964182  
 Ion Ratio Lower Upper  
 146 100  
 111 49.4 24.8 74.3  
 148 64.4 31.9 95.7

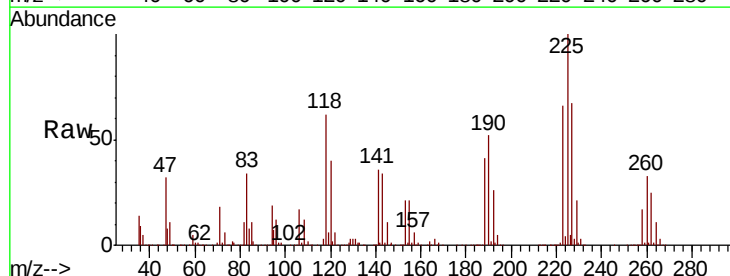


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.10 (110.80 to 111.80): V  
 Ion 148.00 (147.70 to 148.70): V

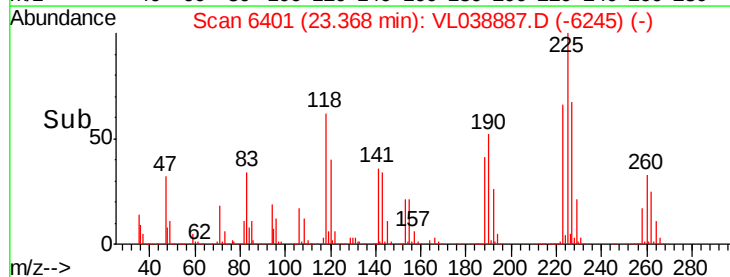
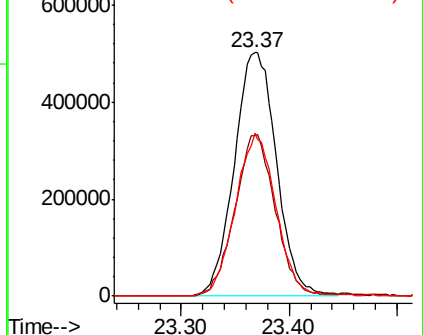


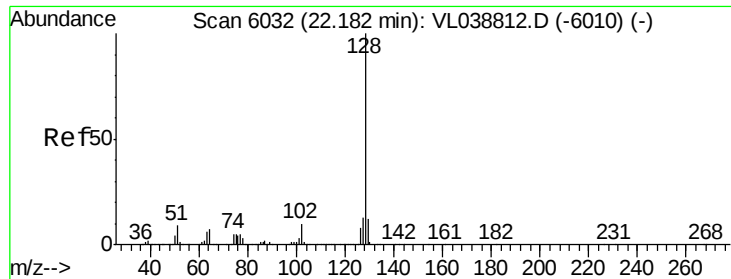
#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.375 ppbv  
 RT: 23.37 min Scan# 6401  
 Delta R.T. 0.00 min  
 Lab File: VL038887.D  
 Acq: 12 Apr 2022 9:56

Tgt Ion:225 Resp: 1360728  
 Ion Ratio Lower Upper  
 225 100  
 223 64.7 51.6 77.4  
 227 64.9 52.3 78.5



Abundance Ion 224.90 (224.60 to 225.60): V  
 Ion 222.90 (222.60 to 223.60): V  
 Ion 226.90 (226.60 to 227.60): V

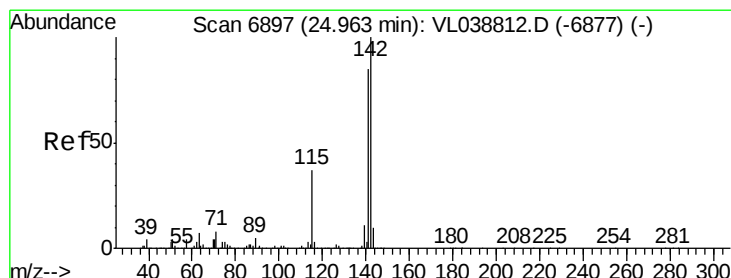
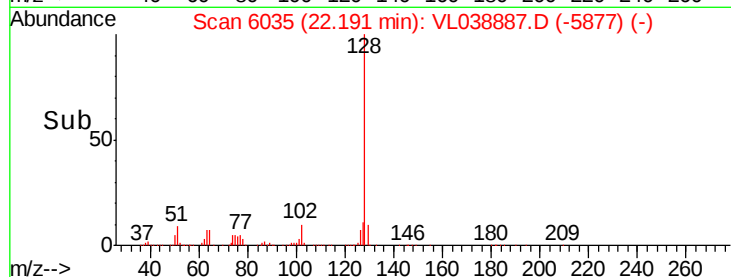
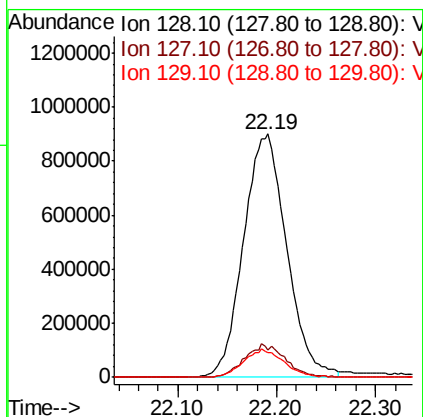
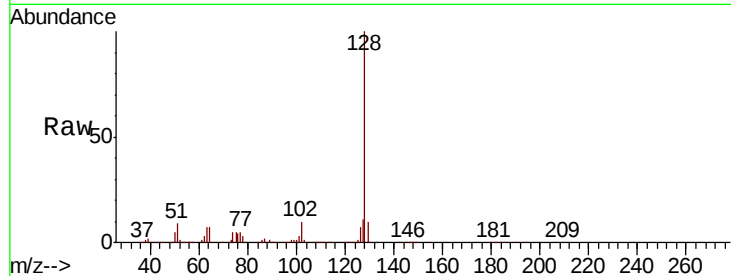




#79  
Naphthalene  
Concen: 7.708 ppbv  
RT: 22.19 min  
Instrument: MSVOA\_1  
Delta R.T.: 0.00 min  
Lab File: ClientSampleId : VSTDCCC010EC  
Acq: 12 Apr 2022 9:56

Tot Ion:128 Resp: 2721466

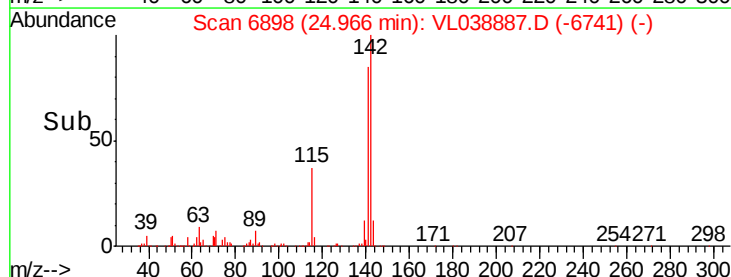
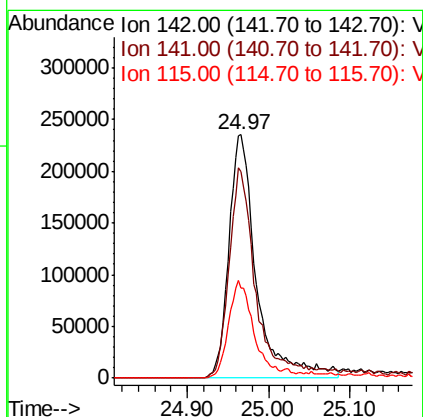
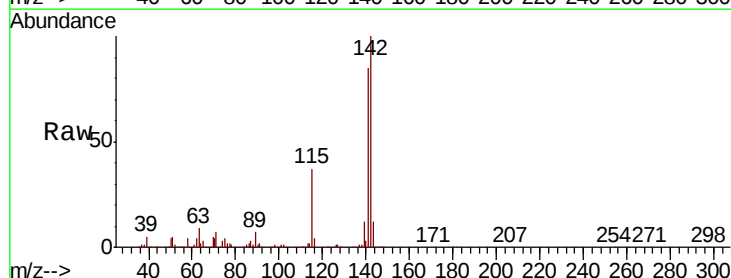
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 11.4  | 10.6  | 15.8  |
| 129 | 10.1  | 9.4   | 14.0  |

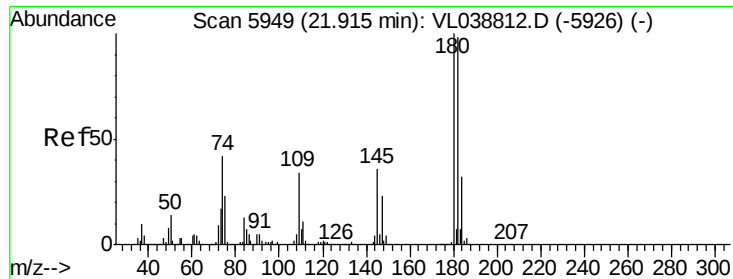


#80  
Naphthalene, 2-methyl-  
Concen: 6.448 ppbv  
RT: 24.97 min Scan# 6898  
Delta R.T.: 0.00 min  
Lab File: VL038887.D  
Acq: 12 Apr 2022 9:56

Tgt Ion:142 Resp: 560973

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 85.1  | 68.8  | 103.2 |
| 115 | 38.9  | 31.6  | 47.4  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.348 ppbv  
 RT: 21.92  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 12 Apr 2022 9:38

Tot Ion:180 Resp: 1518339  
 Ion Ratio Lower Upper  
 180 100  
 182 98.4 79.4 119.0  
 184 30.9 25.0 37.6

