

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040522\  
 Data File : VL038819.D  
 Acq On : 5 Apr 2022 20:22  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL040522

Quant Time: Apr 05 21:01:24 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Apr 05 20:28:48 2022  
 QLast Update : Tue Apr 05 20:28:48 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1429136  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3912074  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 4496334  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2742937  | 8.04     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 80.40% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85   | 1945679  | 9.60  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 1649341  | 9.46  | ppbv   | 99     |
| 4) Chloromethane               | 3.14 | 50   | 849372   | 10.18 | ppbv   | 95     |
| 5) Vinyl Chloride              | 3.26 | 62   | 795750   | 9.54  | ppbv   | 97     |
| 6) Bromomethane                | 3.47 | 94   | 376959   | 9.34  | ppbv   | 97     |
| 7) Chloroethane                | 3.56 | 64   | 266878   | 9.59  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 1806395  | 9.54  | ppbv   | 98     |
| 9) Propene                     | 3.01 | 41   | 881585   | 9.55  | ppbv   | 97     |
| 10) Heptane                    | 8.12 | 43   | 2221758  | 10.20 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 1574835  | 9.67  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1197016  | 9.59  | ppbv   | 99     |
| 13) Ethanol                    | 3.60 | 45   | 32161    | 5.73  | ppbv # | 100    |
| 14) Bromoethene                | 3.74 | 108  | 513021   | 9.35  | ppbv   | 99     |
| 15) Acetone                    | 3.85 | 43   | 1273412  | 8.95  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 791332   | 9.73  | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.28 | 59   | 1280171  | 10.03 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 538598   | 9.47  | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 698235   | 9.60  | ppbv # | 100    |
| 20) Methylene Chloride         | 4.34 | 84   | 442585   | 8.58  | ppbv   | 99     |
| 21) Allyl Chloride             | 4.41 | 41   | 982393   | 9.22  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 567547   | 9.86  | ppbv   | 94     |
| 23) Vinyl Acetate              | 5.07 | 43   | 1389743  | 10.03 | ppbv   | 98     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1191607  | 9.52  | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.67 | 43   | 3527768  | 9.77  | ppbv   | 100    |
| 26) Hexane                     | 5.68 | 57   | 1571155  | 9.56  | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.55 | 76   | 1532928  | 10.17 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73   | 1209361  | 9.53  | ppbv   | 100    |
| 29) Chloroform                 | 5.75 | 83   | 2249627  | 9.78  | ppbv   | 96     |
| 30) Cyclohexane                | 7.13 | 84   | 1350705  | 9.33  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 1482900  | 9.81  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 2243653  | 9.69  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.24 | 43   | 1523310  | 9.85  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2292786  | 9.78  | ppbv   | 98     |
| 36) Benzene                    | 6.89 | 78   | 3311271  | 9.30  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1631539  | 10.03 | ppbv   | 99     |
| 38) Trichloroethene            | 7.83 | 130  | 1304861  | 8.94  | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1318068  | 9.68  | ppbv   | 99     |
| 40) 1,4-Dioxane                | 7.83 | 88   | 153022   | 3.31  | ppbv # | 20     |
| 41) Tetrahydrofuran            | 6.04 | 42   | 1429106  | 9.73  | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.79 | 83   | 2539995  | 9.89  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1381077  | 10.13 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040522\  
 Data File : VL038819.D  
 Acq On : 5 Apr 2022 20:22  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

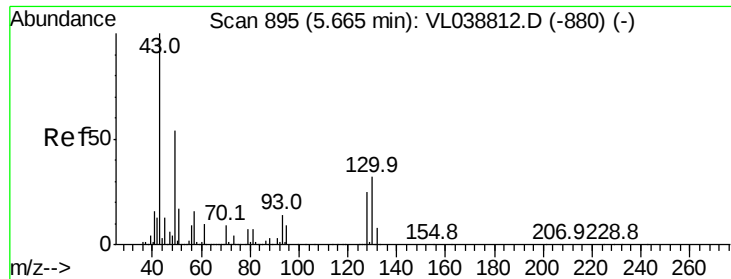
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL040522

Quant Time: Apr 05 21:01:24 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Apr 05 20:28:48 2022  
 QLast Update : Tue Apr 05 20:28:48 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 5526794  | 9.17  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 1500990  | 10.53 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1880173  | 10.01 | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1342107  | 9.62  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.30 | 129  | 2164435  | 9.90  | ppbv   | 97       |
| 49) Bromoform                 | 13.03 | 173  | 1710777  | 9.88  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 3431037  | 9.87  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.12 | 43   | 2706337  | 10.33 | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.21 | 164  | 1109043  | 8.92  | ppbv   | 98       |
| 53) Toluene                   | 9.80  | 91   | 3869379  | 9.42  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1900053  | 9.81  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1503829  | 7.63  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.14 | 112  | 2754014  | 7.48  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.70 | 91   | 5095084  | 7.58  | ppbv   | 98       |
| 59) m/p-Xylene                | 12.99 | 91   | 4019557  | 7.12  | ppbv # | 26       |
| 60) o-Xylene                  | 13.69 | 91   | 3934349  | 7.45  | ppbv   | 98       |
| 61) Styrene                   | 13.52 | 104  | 2506638  | 7.79  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.66 | 105  | 5800100  | 7.32  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2499445  | 7.47  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1571640  | 7.63  | ppbv   | 96       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 5020424  | 7.14  | ppbv   | 99       |
| 66) Benzyl Chloride           | 16.98 | 91   | 1047741  | 7.32  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 7204970  | 7.30  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 6022526  | 7.43  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.54 | 91   | 6329287  | 7.75  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4464543  | 7.49  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 4886752  | 7.75  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 4318175  | 7.62  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 4452662  | 7.43  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2601039  | 7.48  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 2562668  | 7.48  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 2586972  | 7.55  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1781095  | 6.58  | ppbv   | 99       |
| 79) Naphthalene               | 22.18 | 128  | 3669892  | 8.19  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.96 | 142  | 987990   | 8.95  | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 1995231  | 7.61  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 20:22

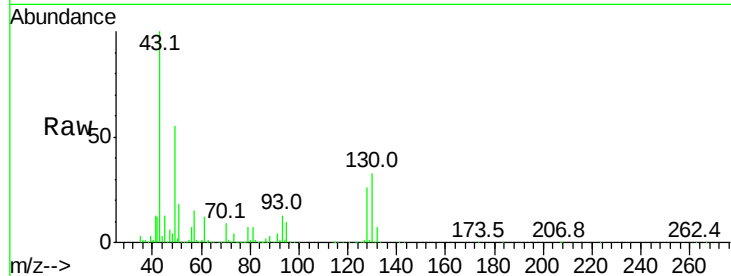
Tgt Ion: 49 Resp: 1429136

Ion Ratio Lower Upper

49 100

128 48.4 24.1 72.3

130 61.3 30.9 92.8



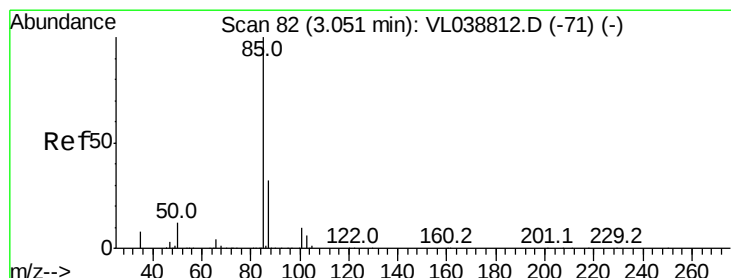
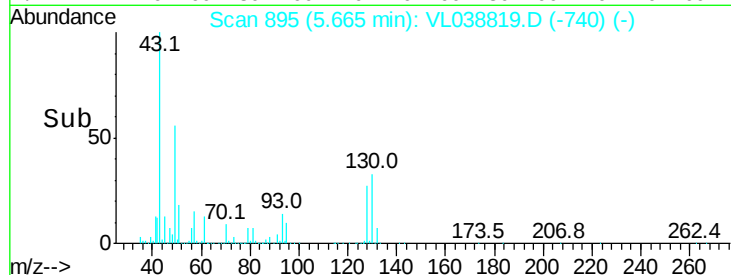
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 9.60 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038819.D

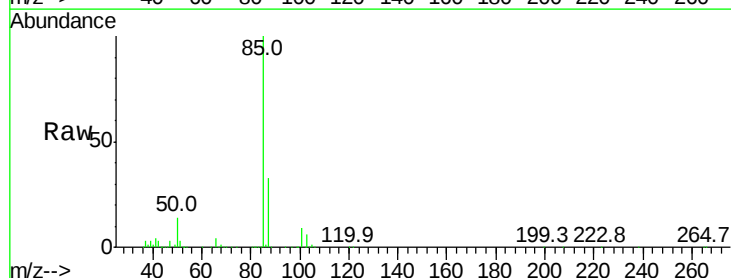
Acq: 5 Apr 2022 20:22

Tgt Ion: 85 Resp: 1945679

Ion Ratio Lower Upper

85 100

87 33.2 25.9 38.9

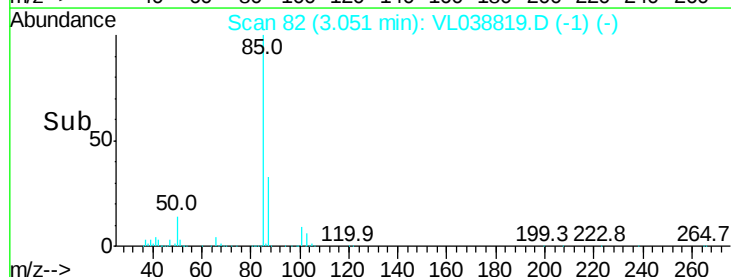


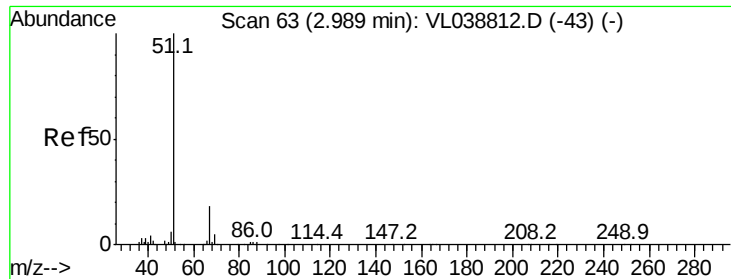
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 9.46 ppbv

RT: 2.99 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: ICVVL040522

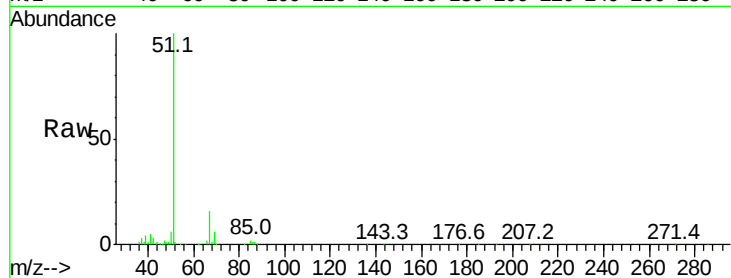
Acq: 5 Apr 2022 20:22

Tgt Ion: 51 Resp: 1649341

Ion Ratio Lower Upper

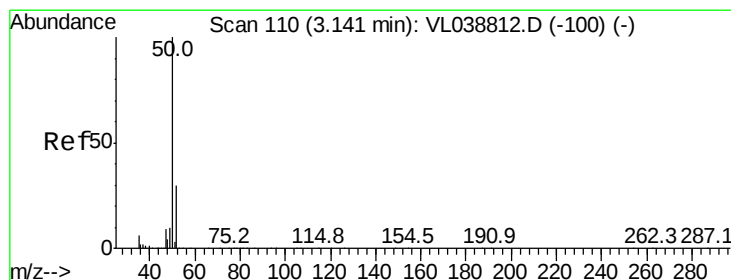
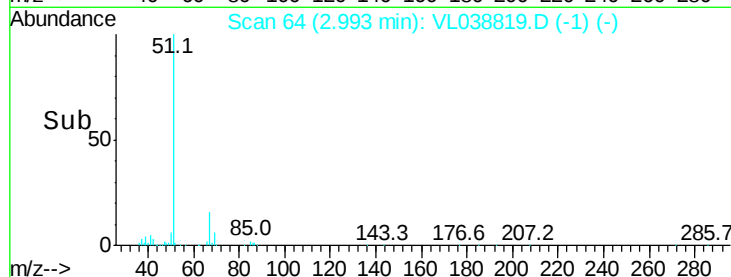
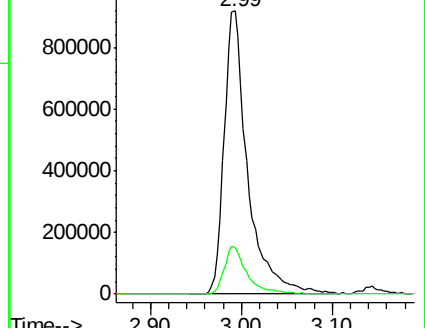
51 100

67 16.5 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.18 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038819.D

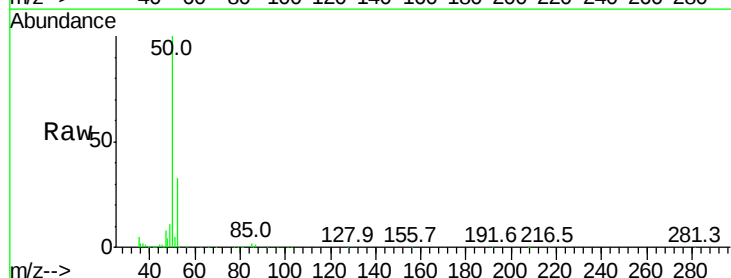
Acq: 5 Apr 2022 20:22

Tgt Ion: 50 Resp: 849372

Ion Ratio Lower Upper

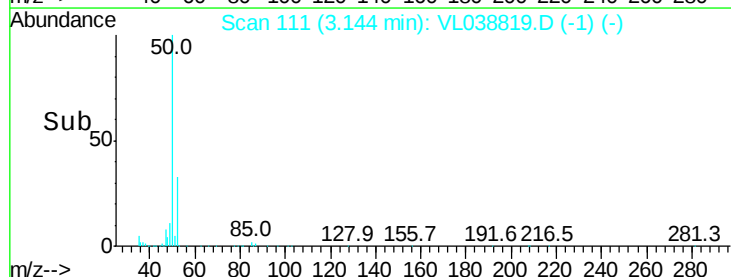
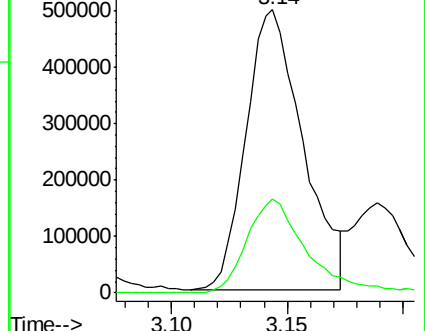
50 100

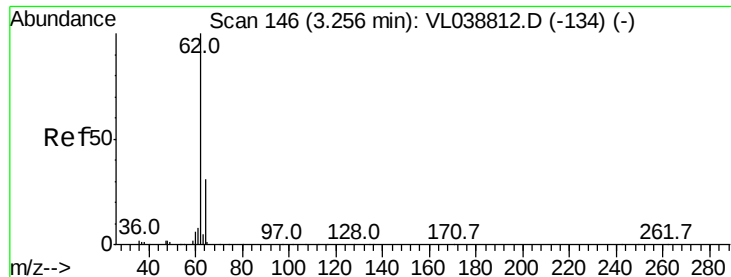
52 33.4 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.54 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

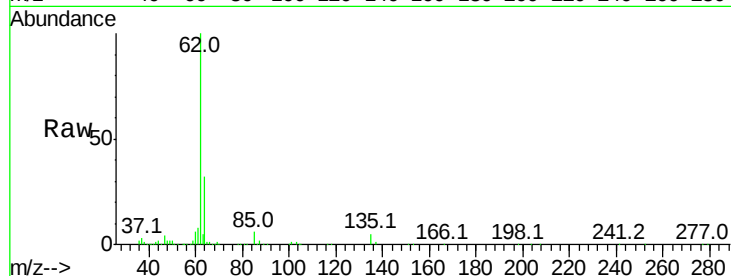
Acq: 5 Apr 2022 20:22

Tgt Ion: 62 Resp: 795750

Ion Ratio Lower Upper

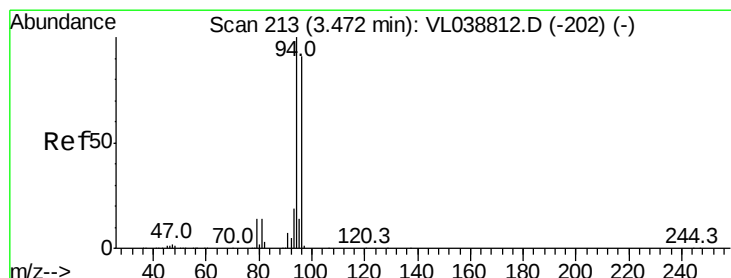
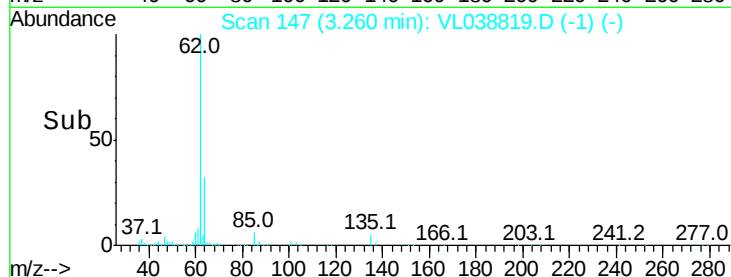
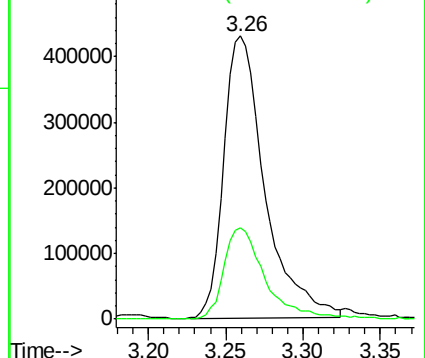
62 100

64 32.4 24.6 37.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.34 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL038819.D

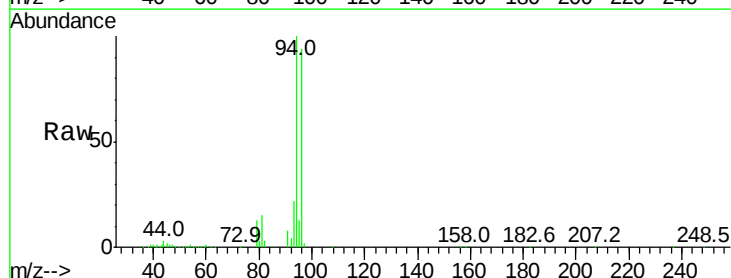
Acq: 5 Apr 2022 20:22

Tgt Ion: 94 Resp: 376959

Ion Ratio Lower Upper

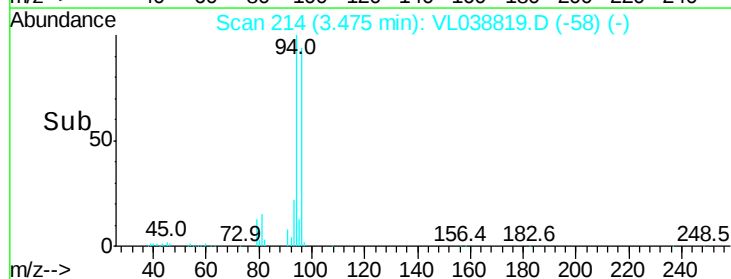
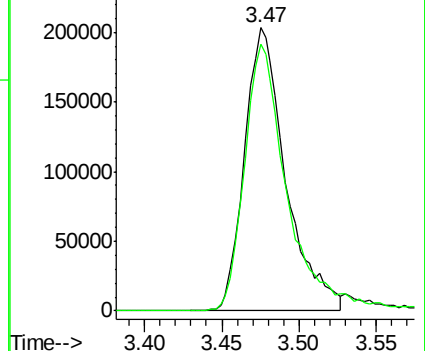
94 100

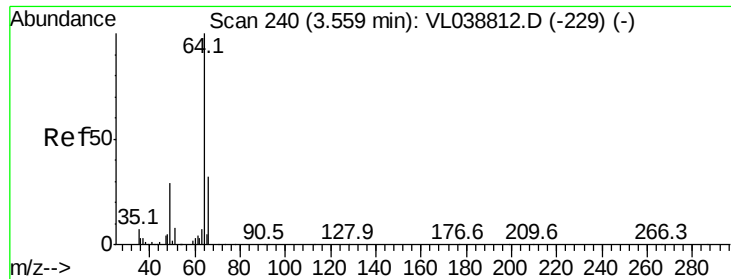
96 94.3 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.59 ppbv

RT: 3.56 Instrument: MSVOA\_1

Delta R.T.:

Lab File: ClientSampleId: ICVVL040522

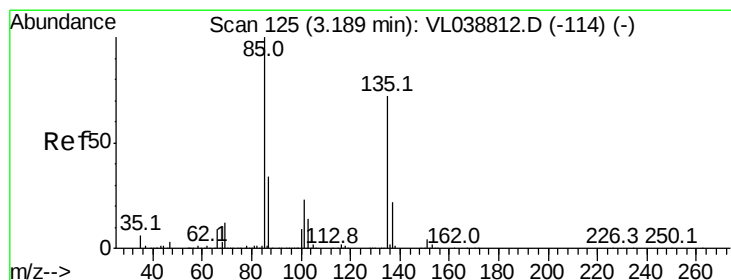
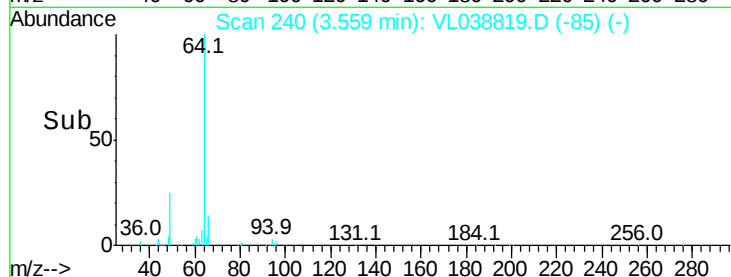
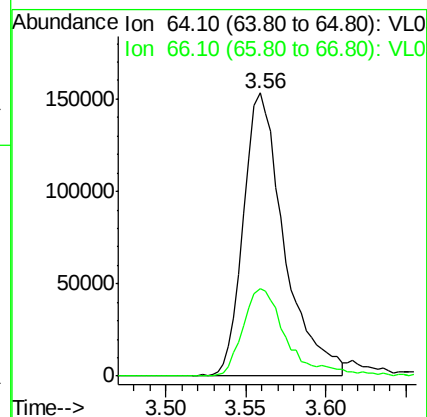
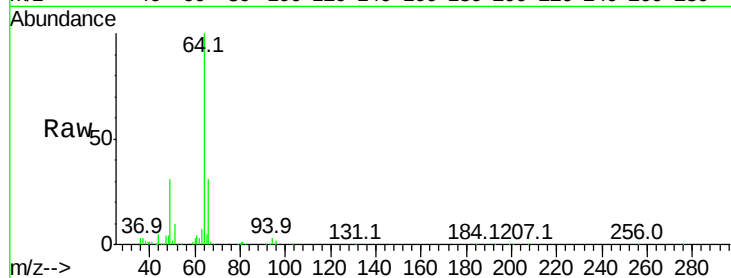
Acq: 5 Apr 2022 20:22

Tgt Ion: 64 Resp: 266878

Ion Ratio Lower Upper

64 100

66 31.0 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 9.54 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL038819.D

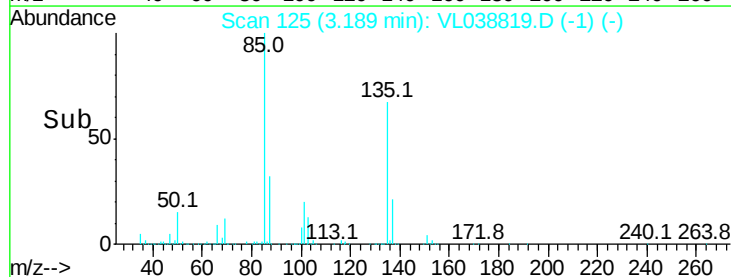
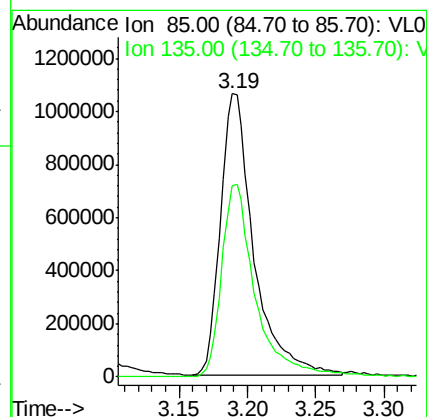
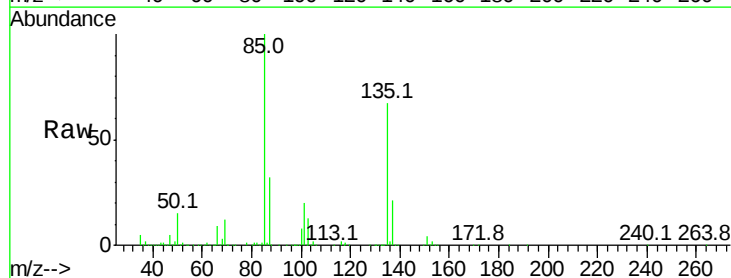
Acq: 5 Apr 2022 20:22

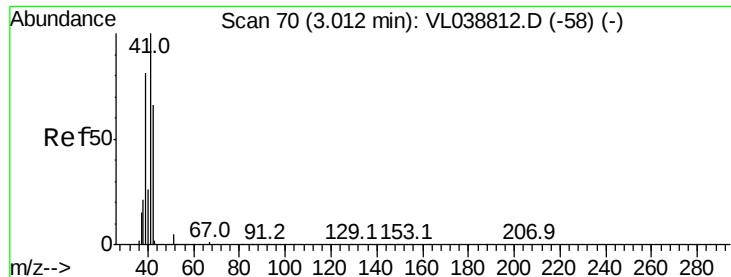
Tgt Ion: 85 Resp: 1806395

Ion Ratio Lower Upper

85 100

135 69.7 57.0 85.6





#9

Propene

Concen: 9.55 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

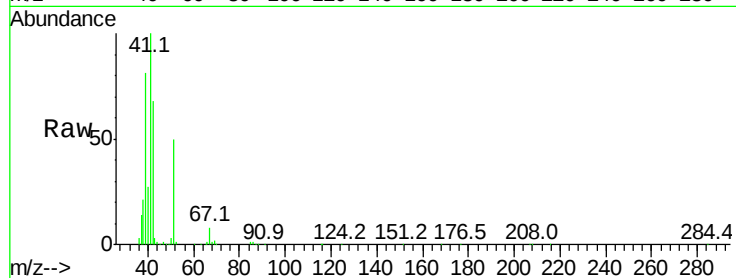
Acq: 5 Apr 2022 20:22

Tgt Ion: 41 Resp: 881585

Ion Ratio Lower Upper

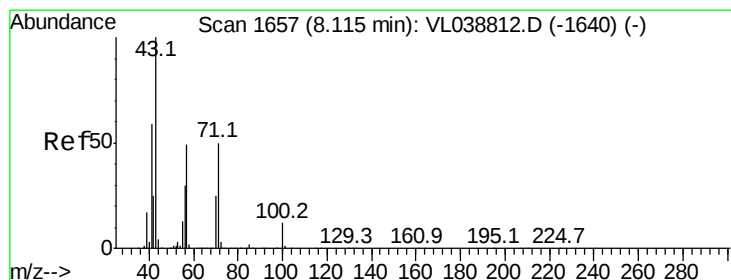
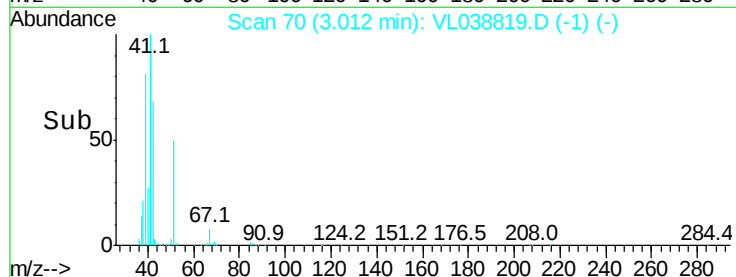
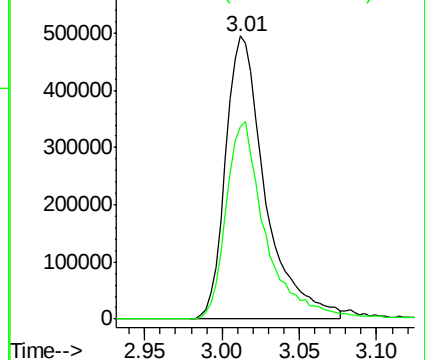
41 100

42 70.4 54.2 81.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.20 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL038819.D

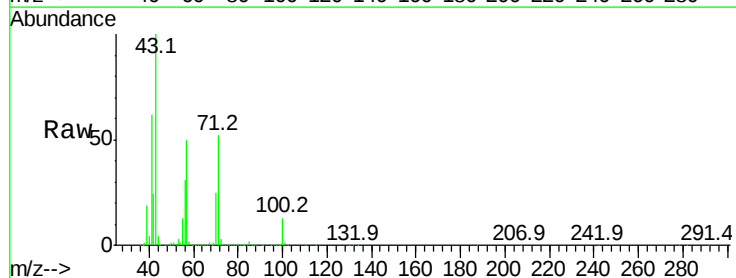
Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 2221758

Ion Ratio Lower Upper

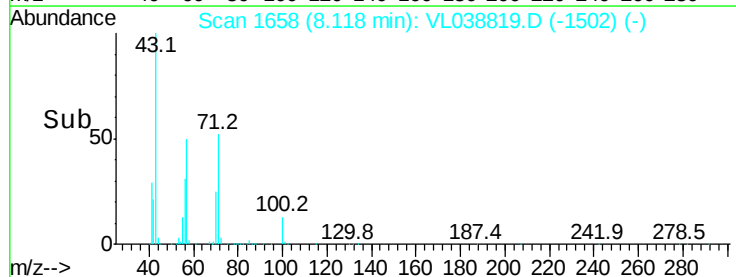
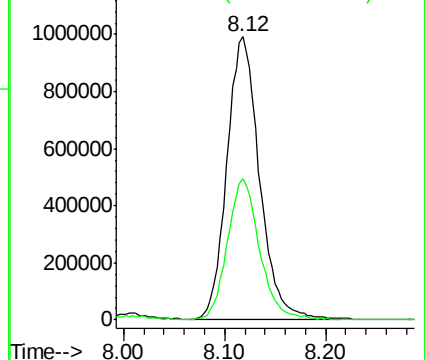
43 100

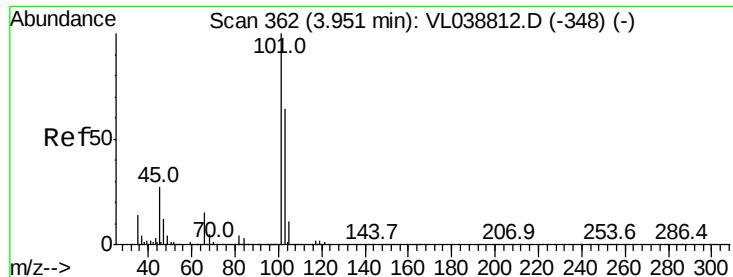
57 49.1 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.67 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

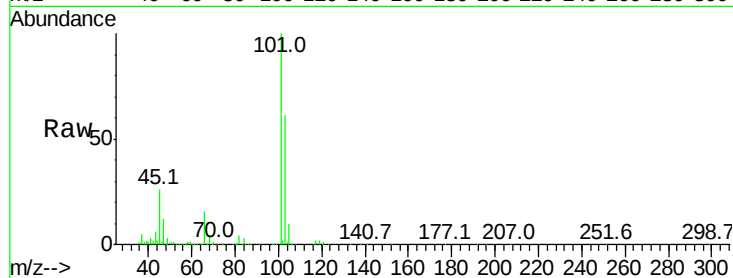
Acq: 5 Apr 2022 20:22

Tgt Ion:101 Resp: 1574835

Ion Ratio Lower Upper

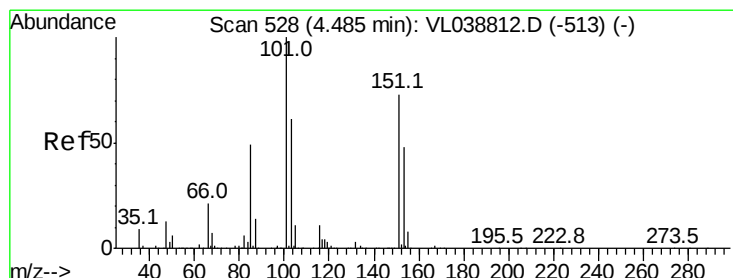
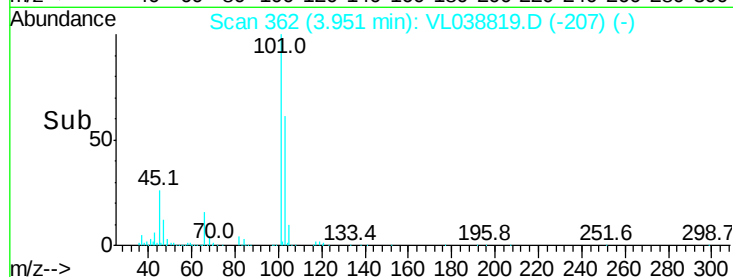
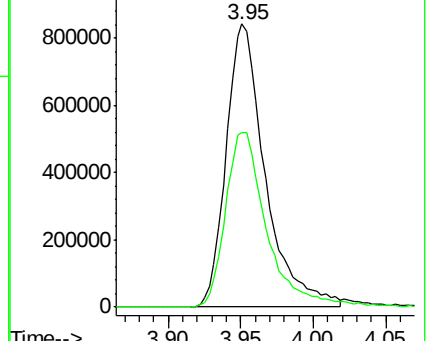
101 100

103 61.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.59 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.00 min

Lab File: VL038819.D

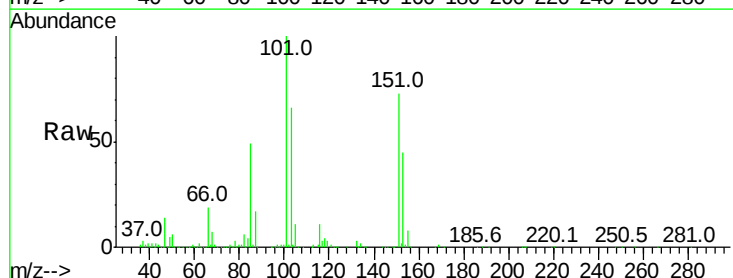
Acq: 5 Apr 2022 20:22

Tgt Ion:101 Resp: 1197016

Ion Ratio Lower Upper

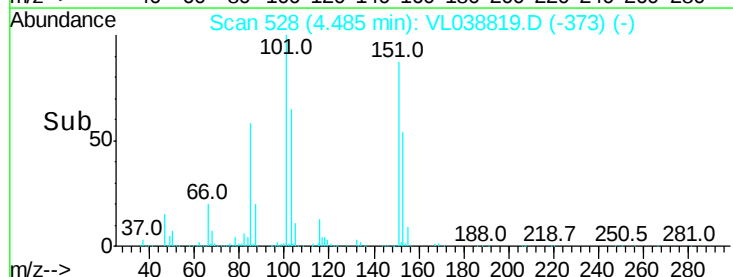
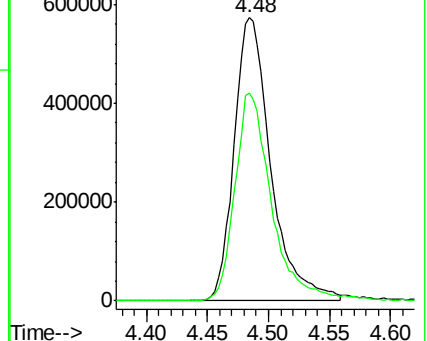
101 100

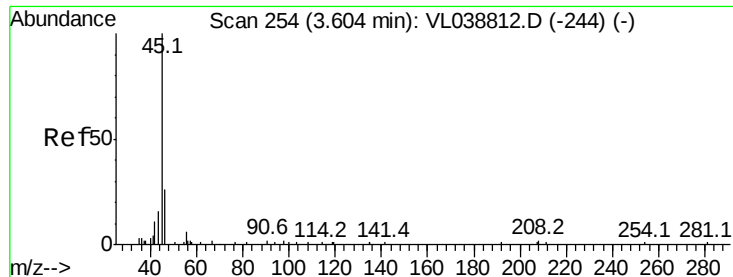
151 74.0 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): V

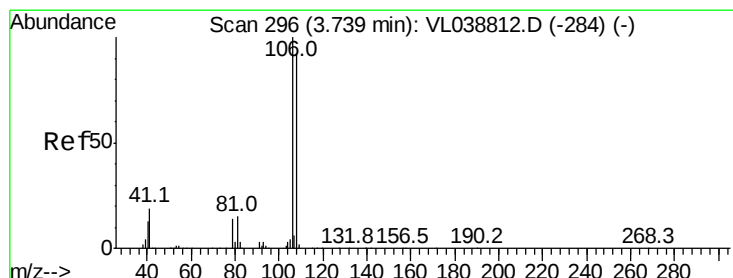
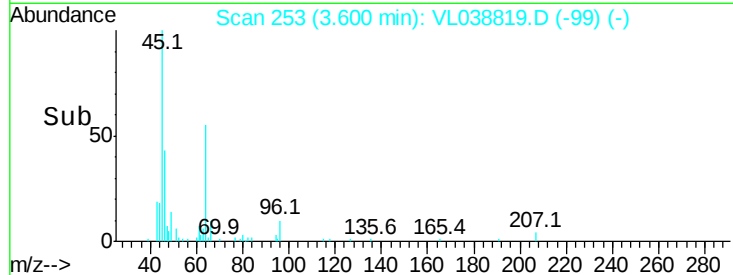
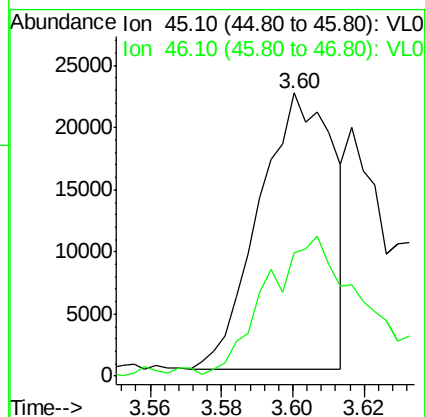
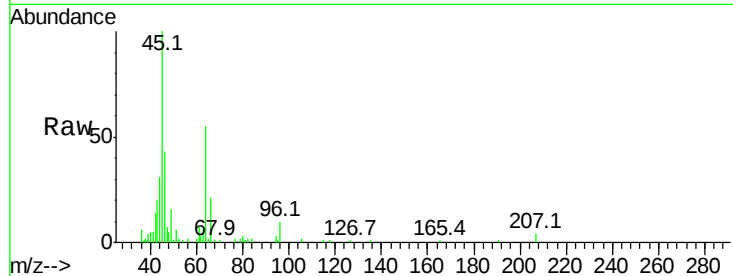
Ion 151.00 (150.70 to 151.70): V





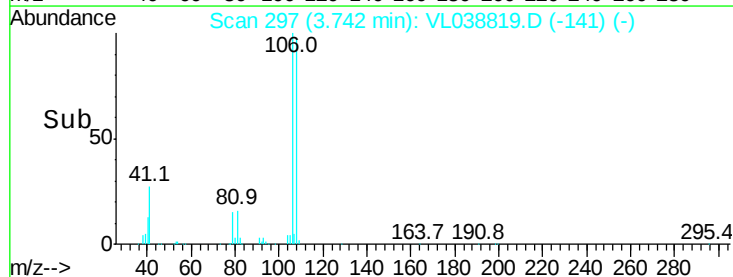
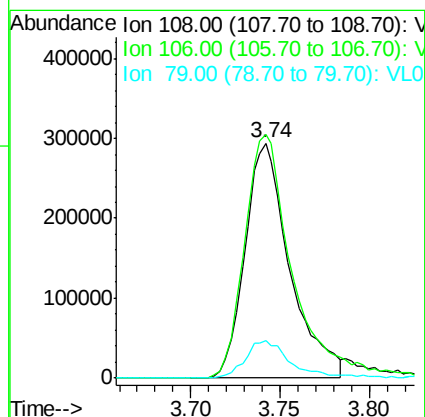
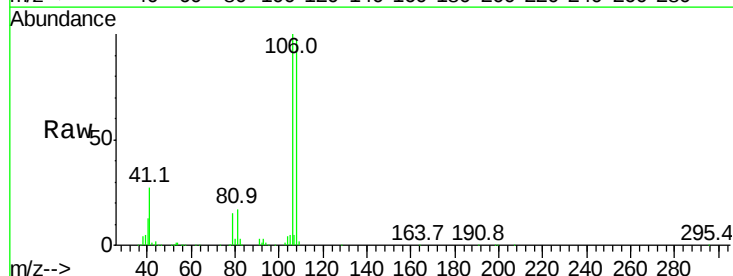
#13  
 Ethanol  
 Concen: 5.73 ppbv  
 RT: 3.60  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId:  
 Acq: 5 Apr 2022 20:22

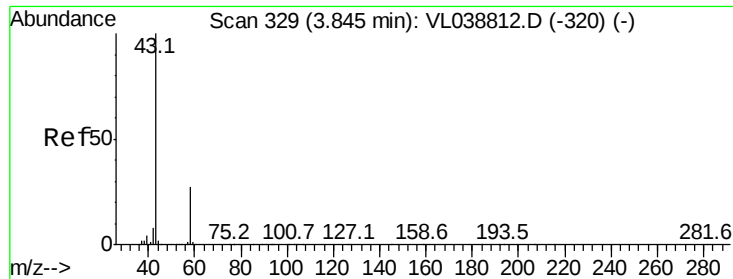
Tgt Ion: 45 Resp: 32161  
 Ion Ratio Lower Upper  
 45 100  
 46 77.0 0.0 0.0#



#14  
 Bromoethene  
 Concen: 9.35 ppbv  
 RT: 3.74 min Scan# 297  
 Delta R.T. 0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

Tgt Ion: 108 Resp: 513021  
 Ion Ratio Lower Upper  
 108 100  
 106 113.4 91.5 137.3  
 79 16.6 13.7 20.5





#15

Acetone

Concen: 8.95 ppbv

RT: 3.85 Instrument: MSVOA\_1

Delta R.T. -

Lab File: ClientSampleId: ICVVL040522

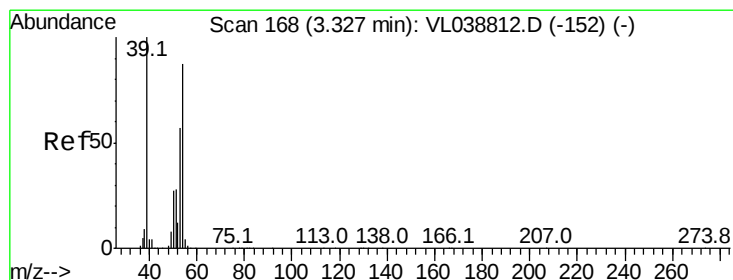
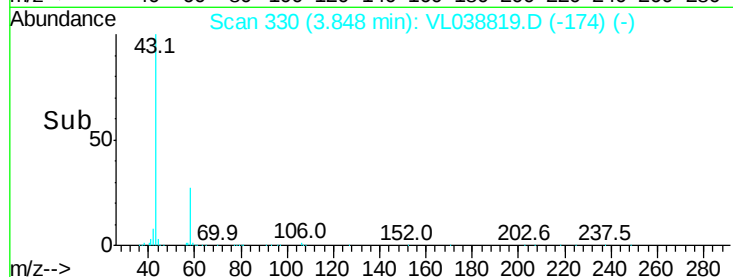
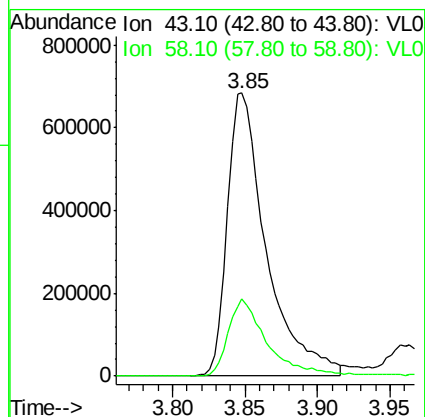
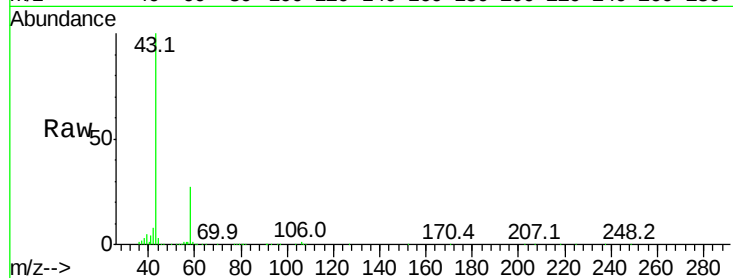
Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 1273412

Ion Ratio Lower Upper

43 100

58 28.4 22.5 33.7



#16

1,3-Butadiene

Concen: 9.73 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.00 min

Lab File: VL038819.D

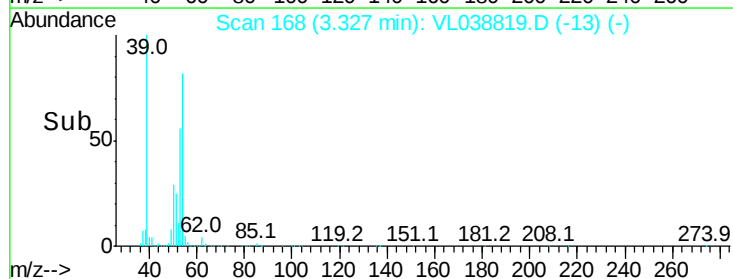
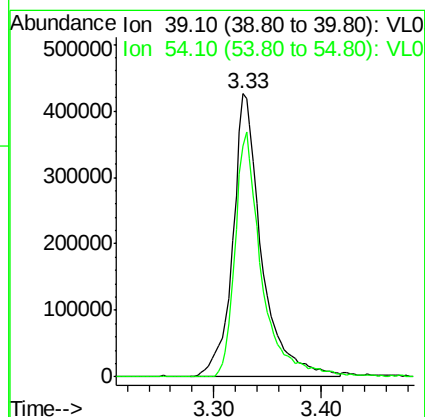
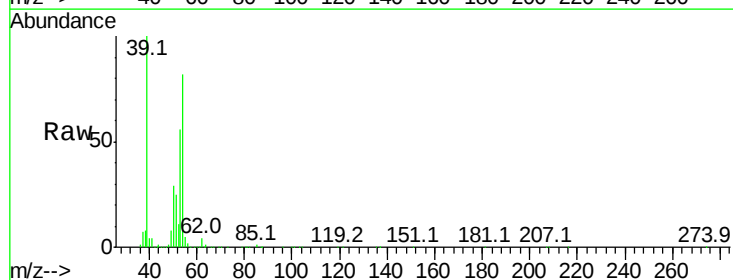
Acq: 5 Apr 2022 20:22

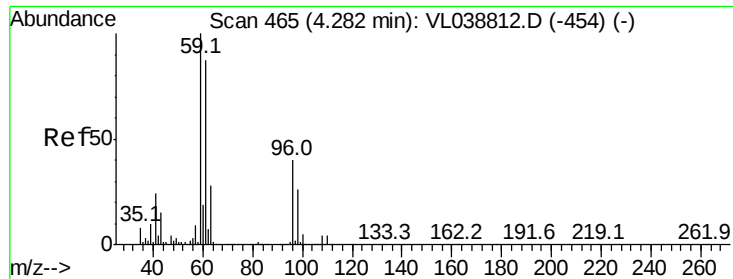
Tgt Ion: 39 Resp: 791332

Ion Ratio Lower Upper

39 100

54 80.5 64.8 97.2





#17

tert-Butyl alcohol

Concen: 10.03 ppbv

RT: 4.28 Instrument: MSVOA\_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: ICVVL040522

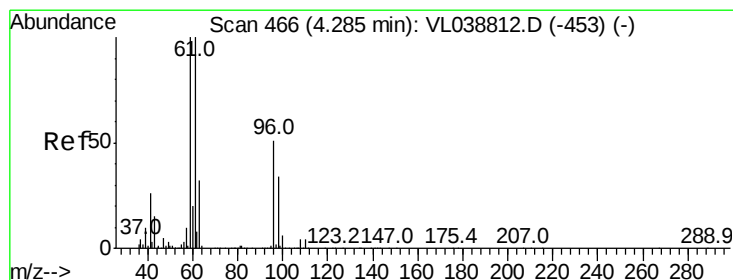
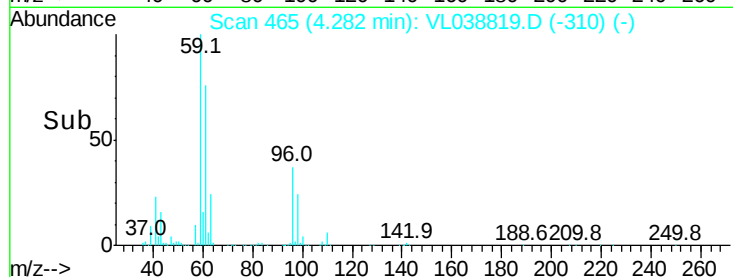
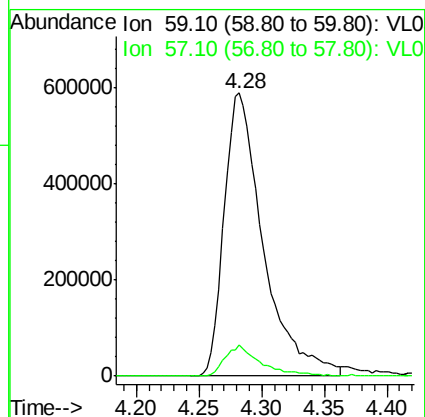
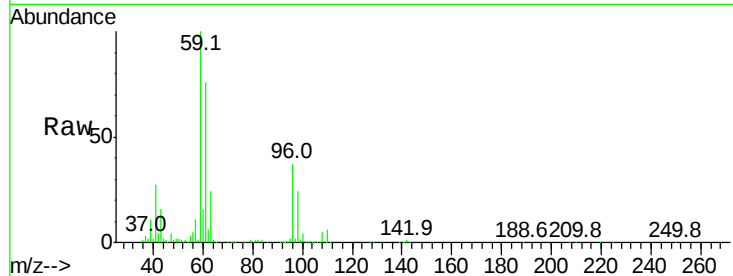
Acq: 5 Apr 2022 20:22

Tgt Ion: 59 Resp: 1280171

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7



#18

1,1-Dichloroethene

Concen: 9.47 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

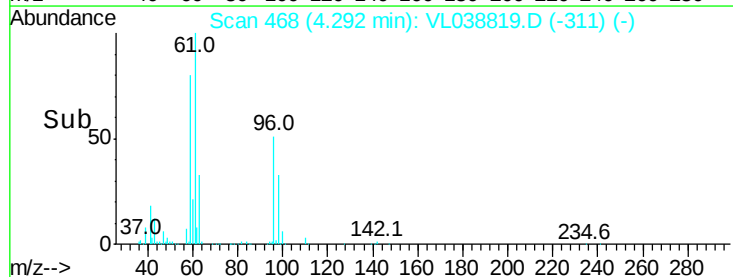
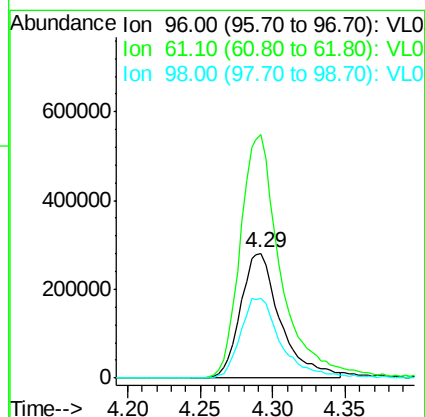
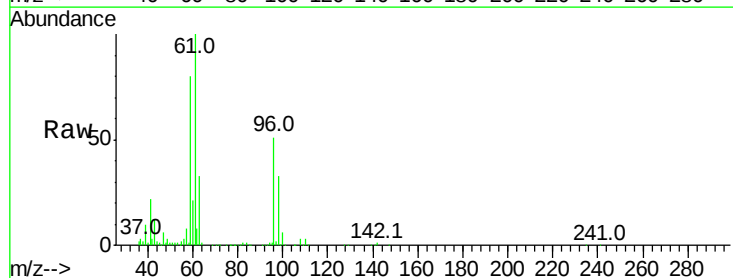
Tgt Ion: 96 Resp: 538598

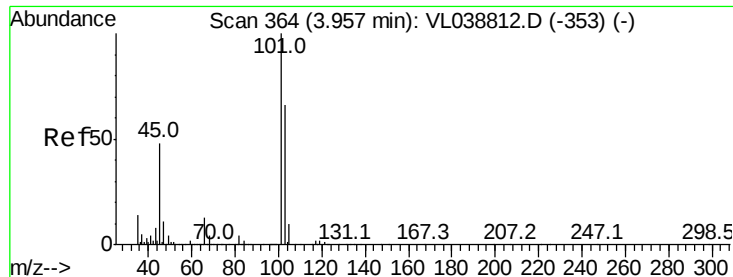
Ion Ratio Lower Upper

96 100

61 194.5 156.1 234.1

98 63.8 53.0 79.6





#19

Isopropyl Alcohol

Concen: 9.60 ppbv

RT: 3.96 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: ICVVL040522

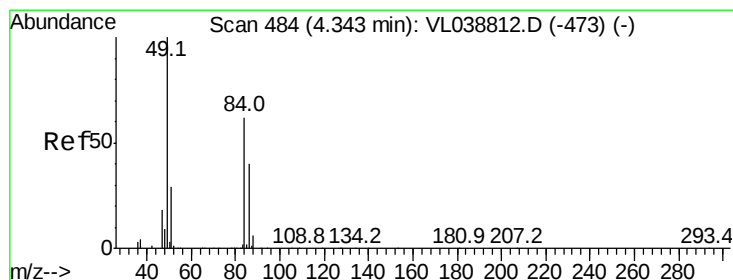
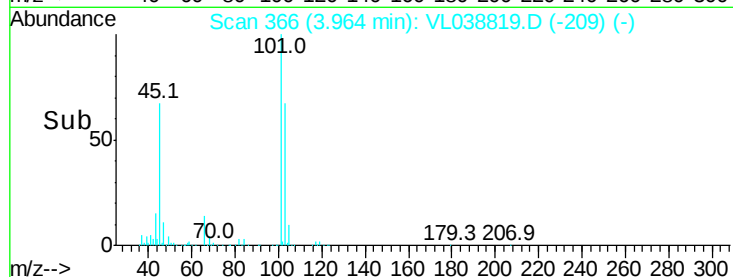
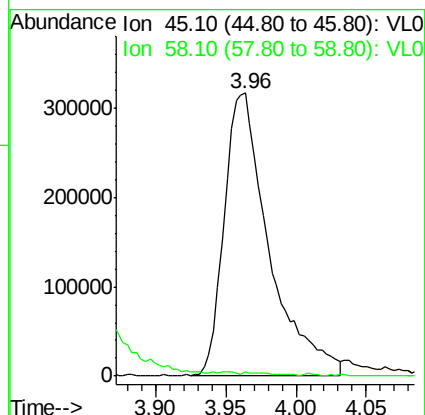
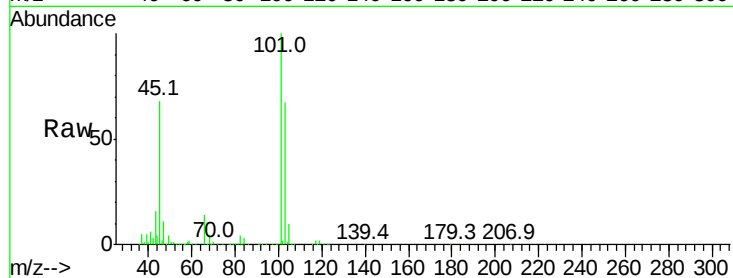
Acq: 5 Apr 2022 20:22

Tgt Ion: 45 Resp: 698235

Ion Ratio Lower Upper

45 100

58 52.6 0.0 0.0#



#20

Methylene Chloride

Concen: 8.58 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion: 84 Resp: 442585

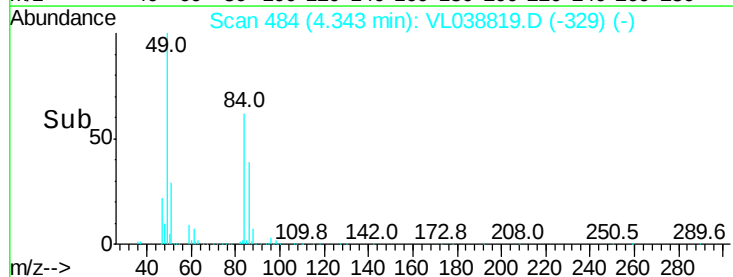
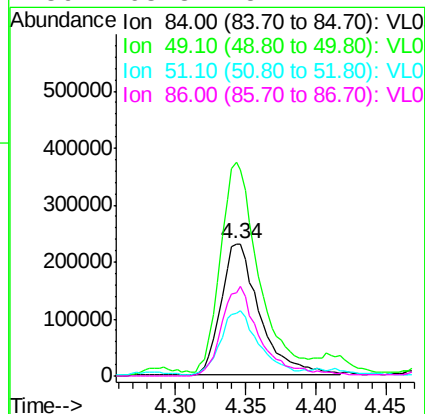
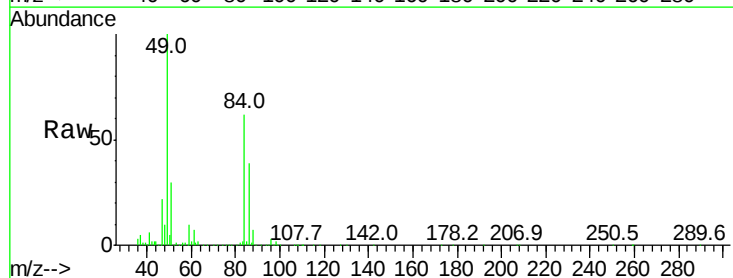
Ion Ratio Lower Upper

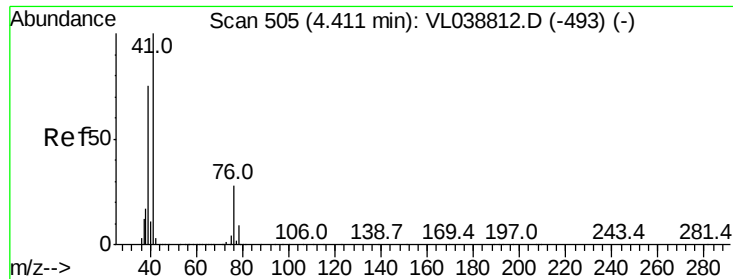
84 100

49 159.7 129.4 194.0

51 46.9 37.4 56.2

86 63.3 51.4 77.2





#21

Allyl Chloride

Concen: 9.22 ppbv

RT: 4.41

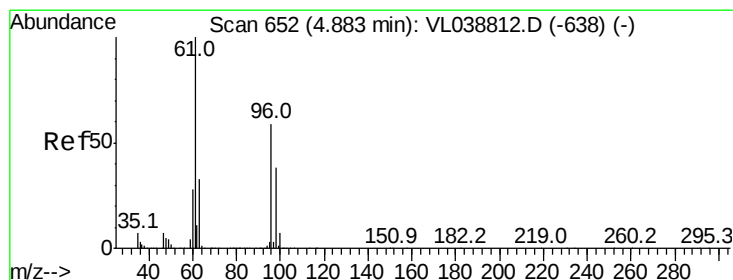
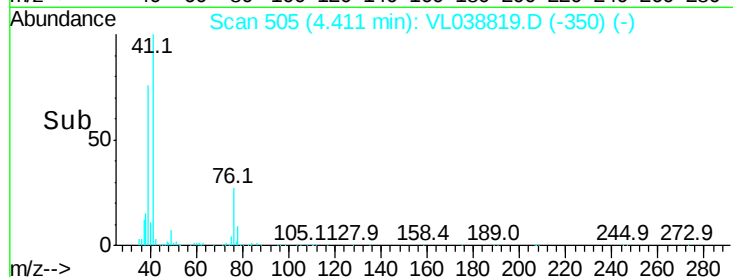
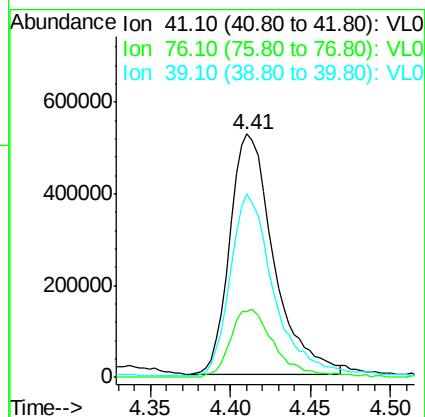
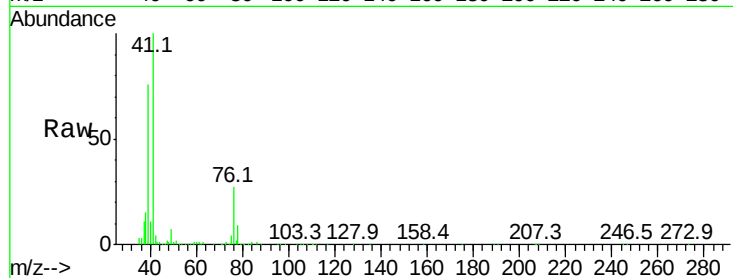
Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 20:22

Tgt Ion: 41 Resp: 982393

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 76  | 28.9  | 23.7  | 35.5  |
| 39  | 77.2  | 62.0  | 93.0  |



#22

trans-1,2-Dichloroethene

Concen: 9.86 ppbv

RT: 4.88 min Scan# 652

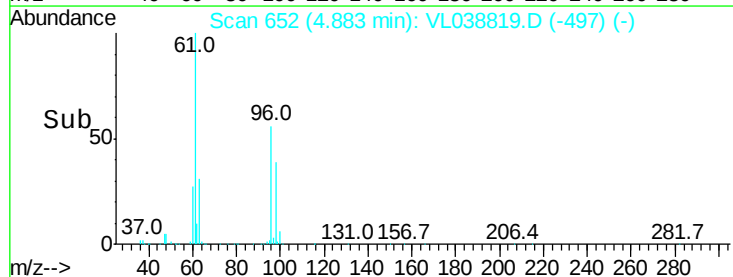
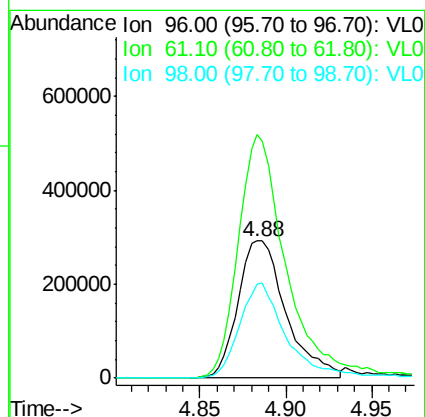
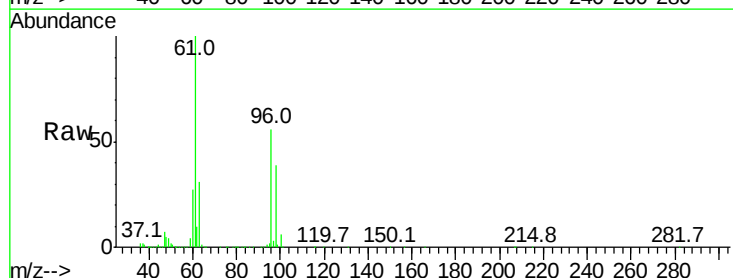
Delta R.T. -0.00 min

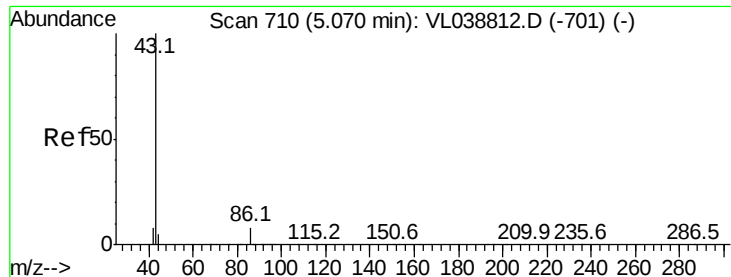
Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion: 96 Resp: 567547

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 177.2 | 134.8 | 202.2 |
| 98  | 68.3  | 51.9  | 77.9  |





#23

Vinyl Acetate

Concen: 10.03 ppbv

RT: 5.07 Instrument: MSVOA\_1

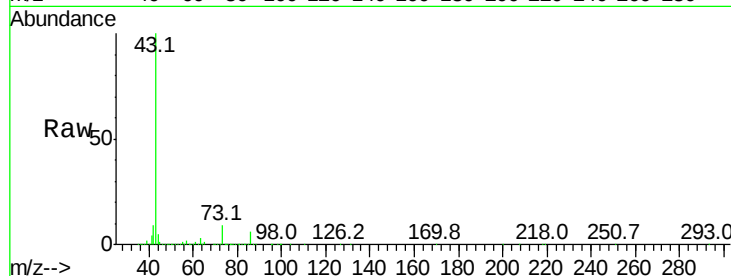
Delta R.T.

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 1389743

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.3   | 5.8   | 8.6   |
| 42  | 9.0   | 7.8   | 11.6  |
| 44  | 4.4   | 3.6   | 5.4   |

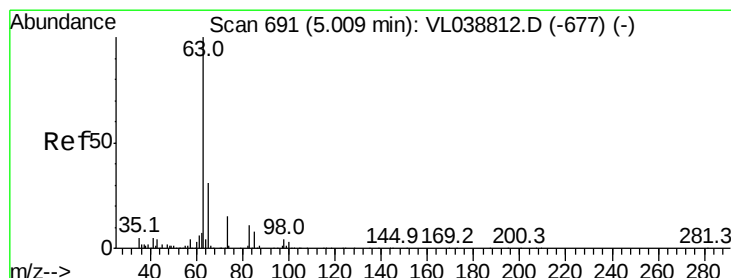
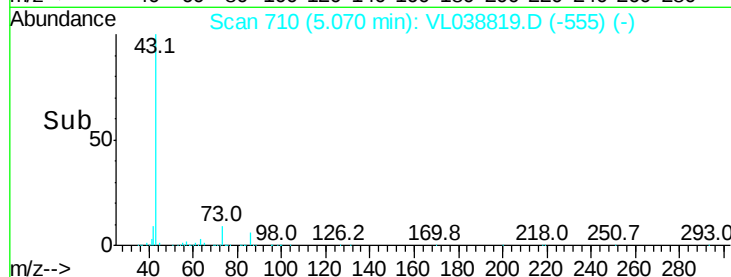
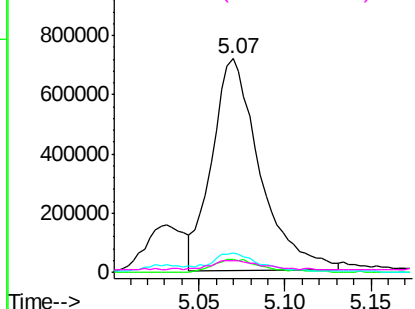


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.52 ppbv

RT: 5.01 min Scan# 692

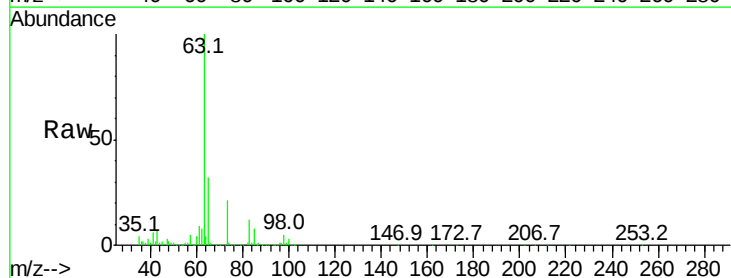
Delta R.T. 0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion: 63 Resp: 1191607

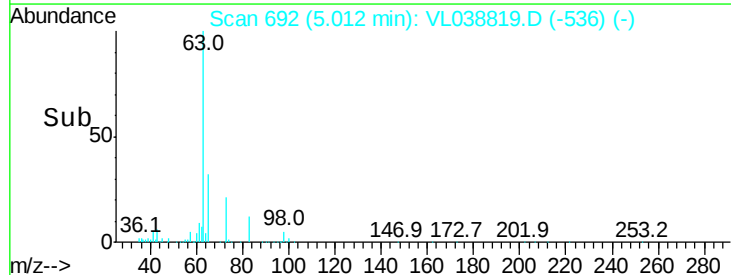
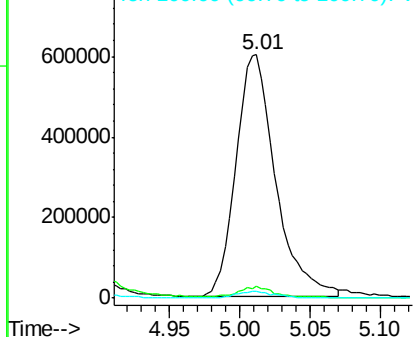
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.4   | 2.2   | 6.6   |
| 100 | 2.5   | 1.4   | 4.0   |

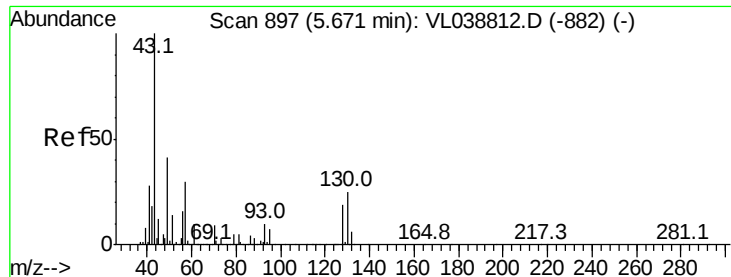


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

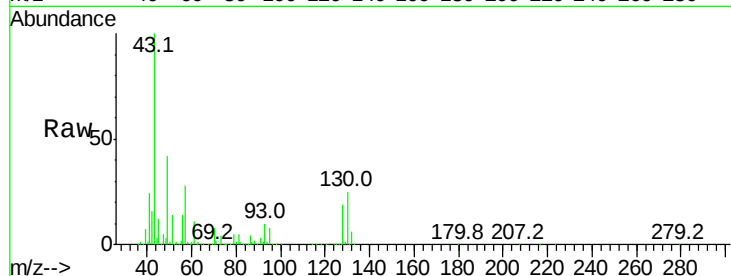




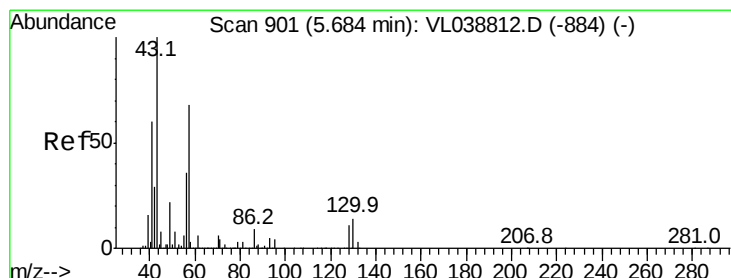
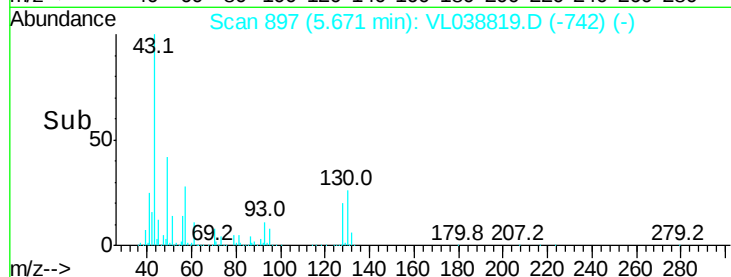
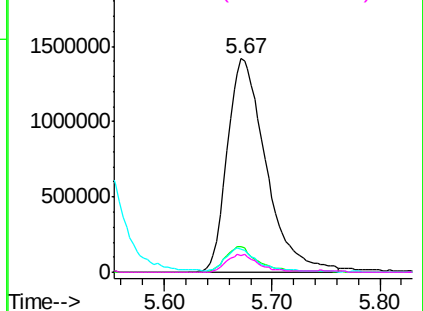
#25  
Ethyl Acetate  
Concen: 9.77 ppbv  
RT: 5.67  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 3527768

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.4  | 8.4   | 12.6  |
| 61  | 9.7   | 7.9   | 11.9  |
| 70  | 7.2   | 5.6   | 8.4   |



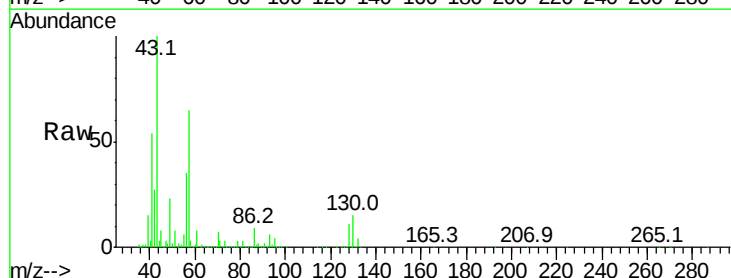
Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 45.10 (44.80 to 45.80): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 70.10 (69.80 to 70.80): VL0



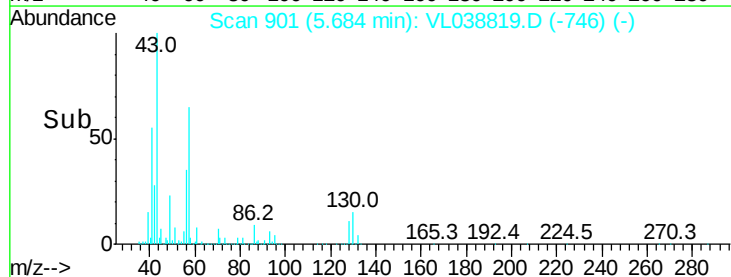
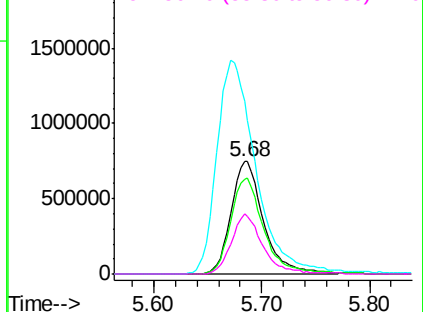
#26  
Hexane  
Concen: 9.56 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL038819.D  
Acq: 5 Apr 2022 20:22

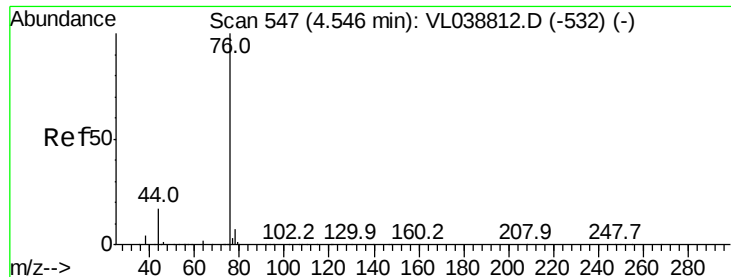
Tgt Ion: 57 Resp: 1571155

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 87.2  | 72.0  | 108.0 |
| 43  | 228.9 | 186.6 | 280.0 |
| 56  | 52.2  | 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: 10.17 ppbv

RT: 4.55 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

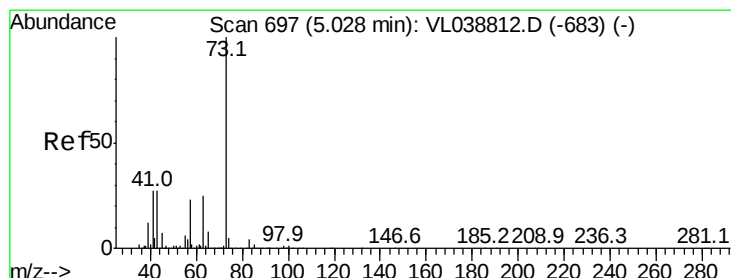
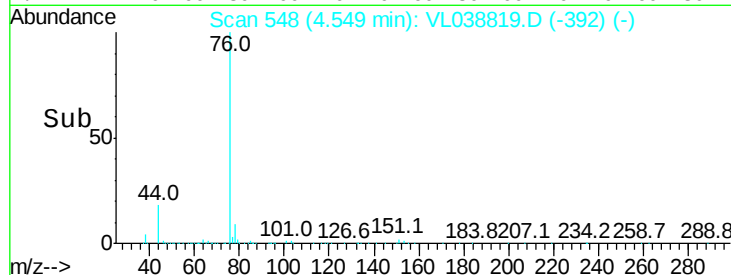
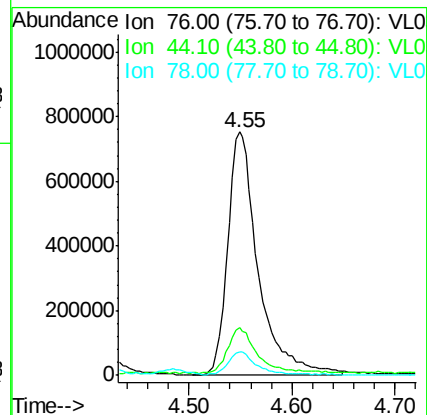
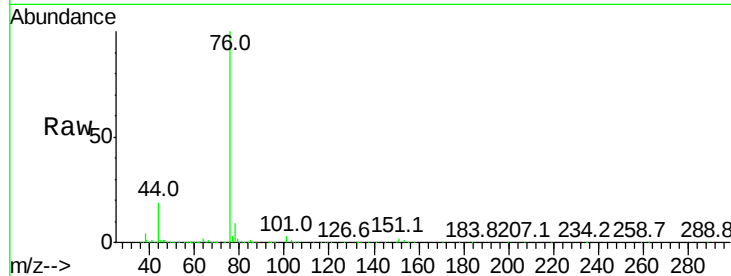
Tgt Ion: 76 Resp: 1532928

Ion Ratio Lower Upper

76 100

44 18.0 15.7 23.5

78 10.0 7.8 11.8



#28

Methyl tert-Butyl Ether

Concen: 9.53 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL038819.D

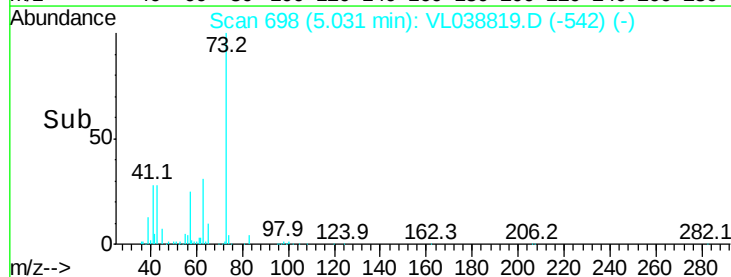
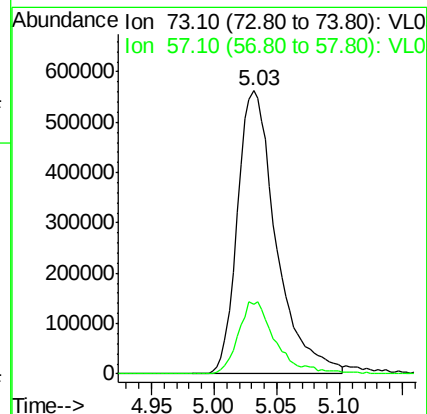
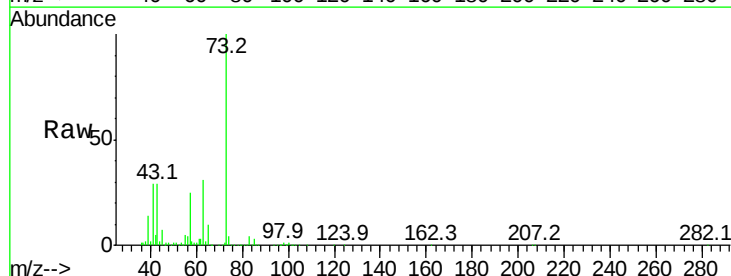
Acq: 5 Apr 2022 20:22

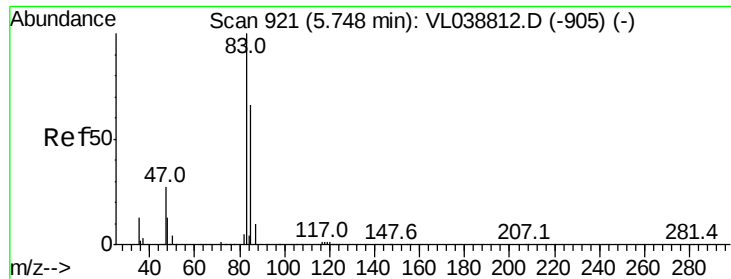
Tgt Ion: 73 Resp: 1209361

Ion Ratio Lower Upper

73 100

57 24.8 19.7 29.5





#29

Chloroform

Concen: 9.78 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

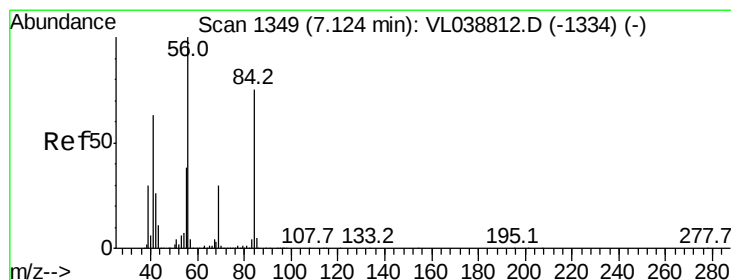
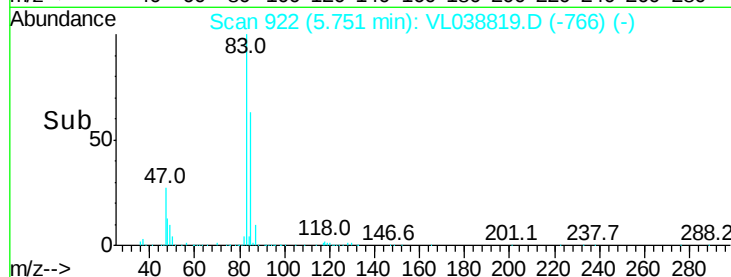
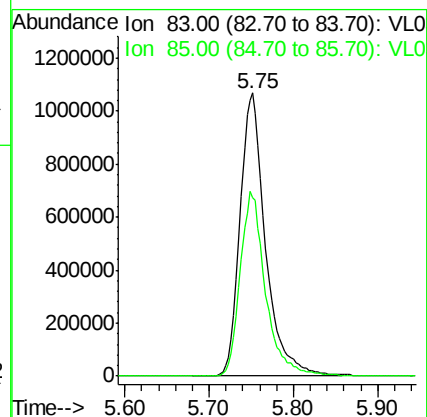
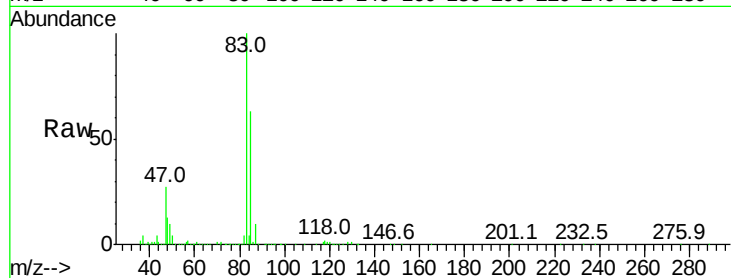
Acq: 5 Apr 2022 20:22

Tgt Ion: 83 Resp: 2249627

Ion Ratio Lower Upper

83 100

85 62.6 52.5 78.7



#30

Cyclohexane

Concen: 9.33 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

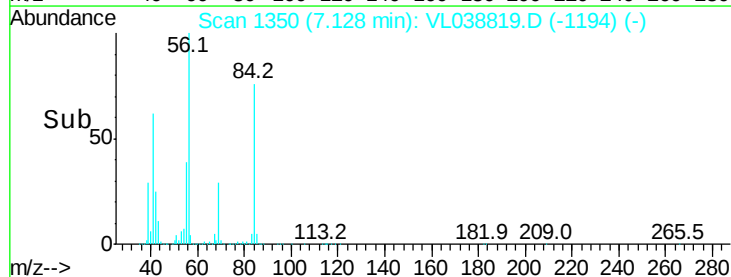
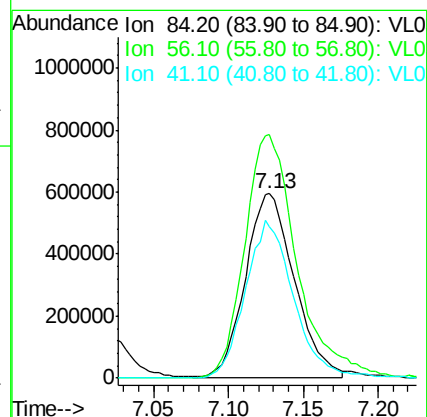
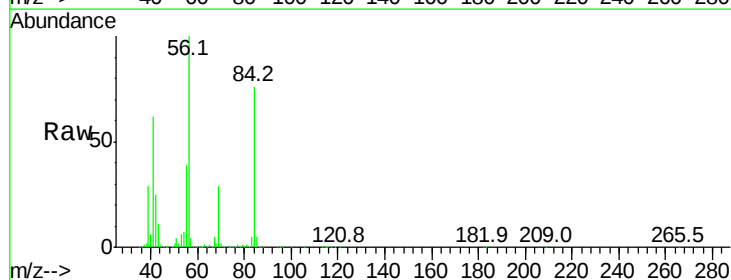
Tgt Ion: 84 Resp: 1350705

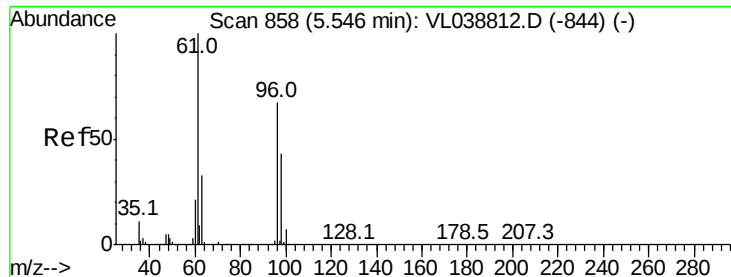
Ion Ratio Lower Upper

84 100

56 142.3 114.4 171.6

41 84.4 69.0 103.4





#31

cis-1,2-Dichloroethene

Concen: 9.81 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

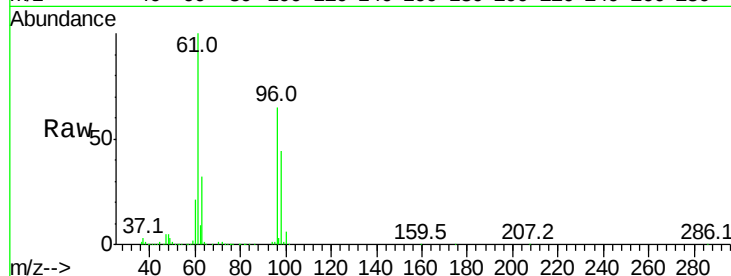
Tgt Ion: 61 Resp: 1482900

Ion Ratio Lower Upper

61 100

96 65.4 53.4 80.0

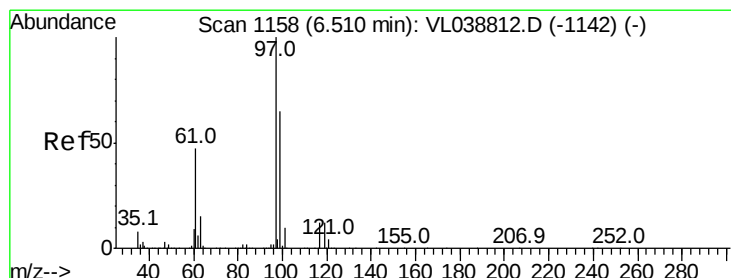
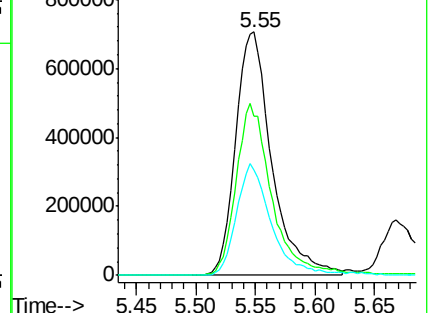
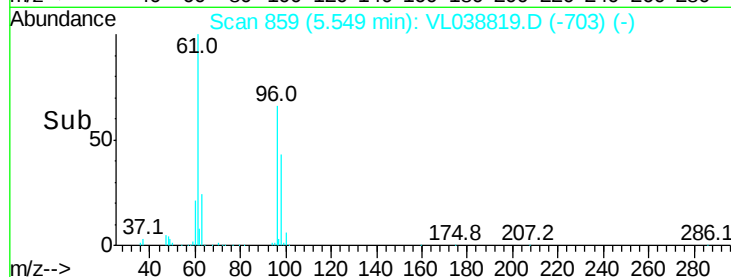
98 43.5 34.2 51.4



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: 9.69 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

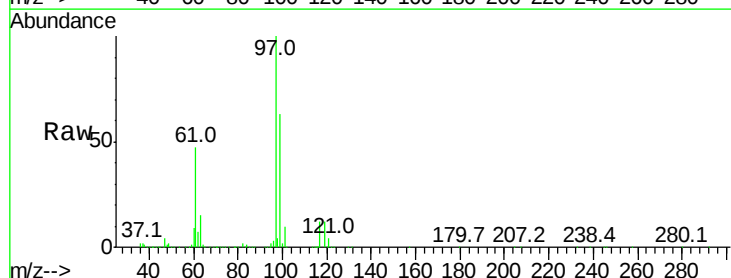
Tgt Ion: 97 Resp: 2243653

Ion Ratio Lower Upper

97 100

99 65.1 52.4 78.6

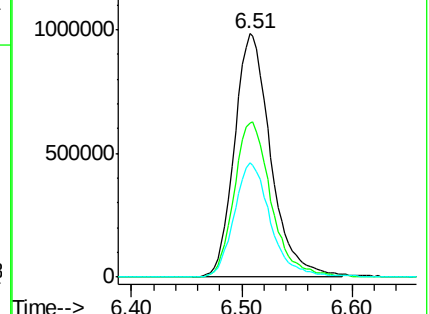
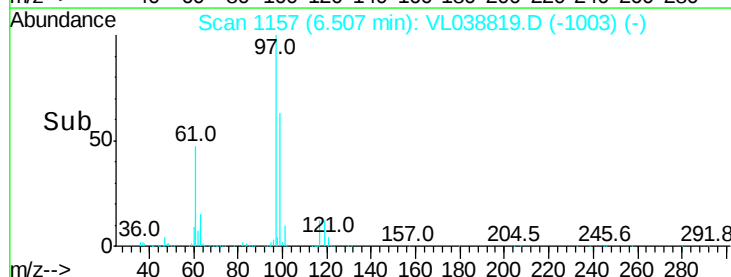
61 47.1 38.6 57.8

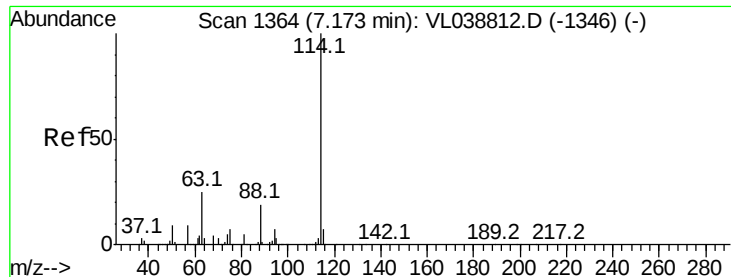


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

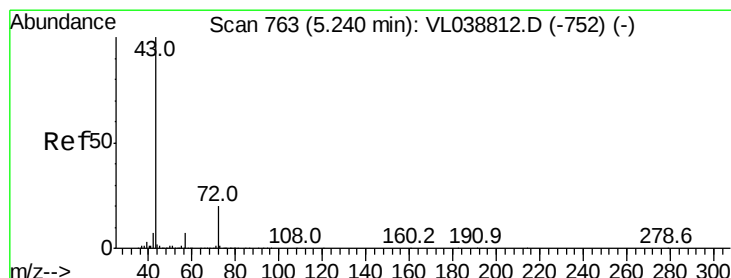
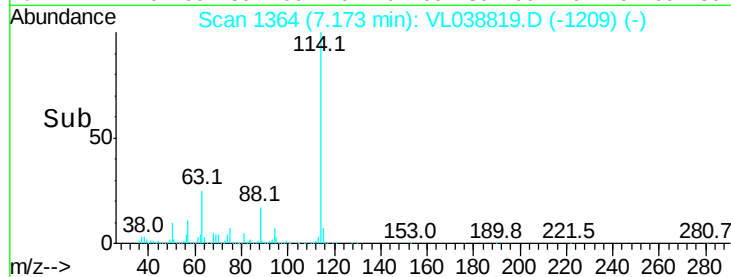
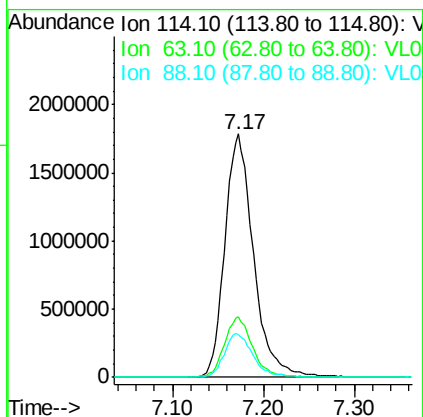
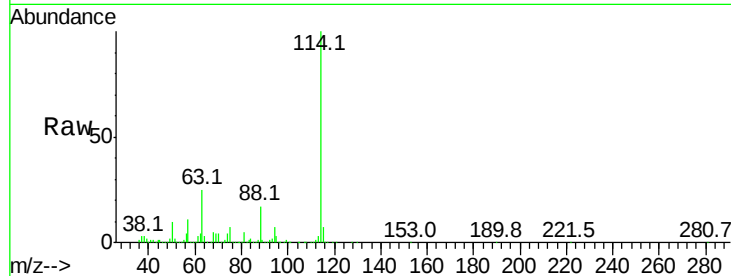




#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.17  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20:22

Tgt Ion:114 Resp: 3912074

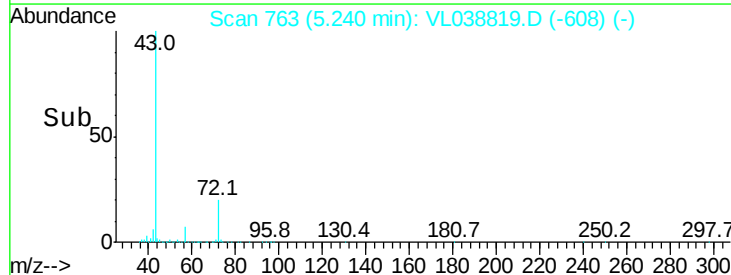
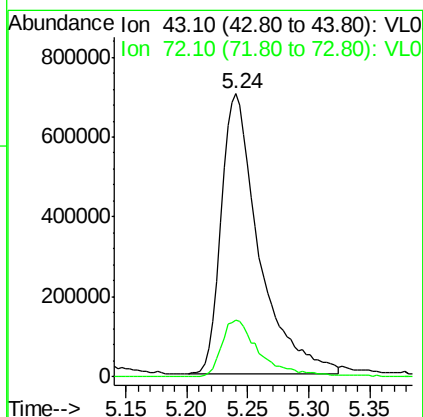
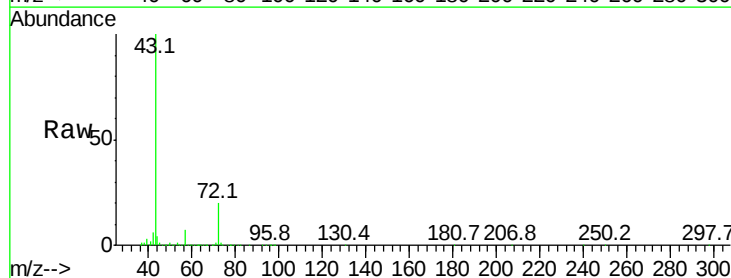
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.7  | 19.8  | 29.8  |
| 88  | 18.0  | 14.2  | 21.4  |

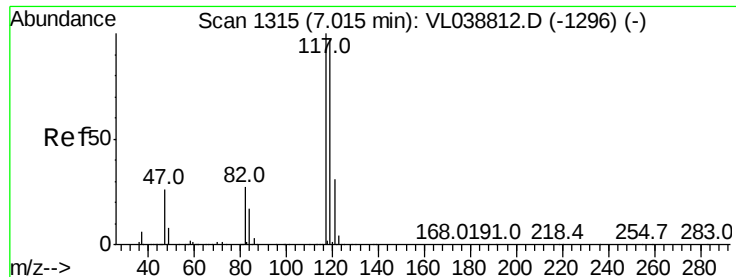


#34  
 2-Butanone  
 Concen: 9.85 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. -0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 1523310

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.4  | 16.9  | 25.3  |





#35

Carbon Tetrachloride

Concen: 9.78 ppbv

RT: 7.01

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

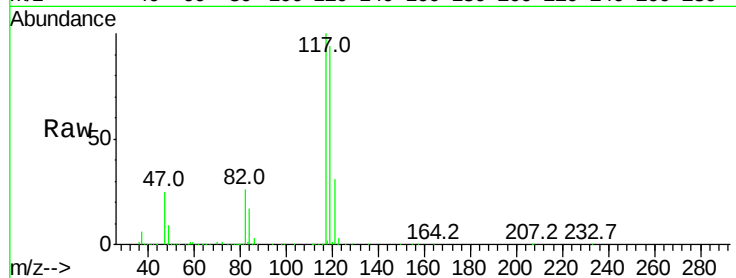
Tgt Ion: 117 Resp: 2292786

Ion Ratio Lower Upper

117 100

119 94.3 77.7 116.5

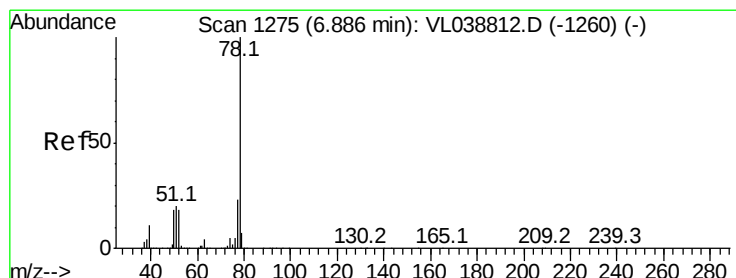
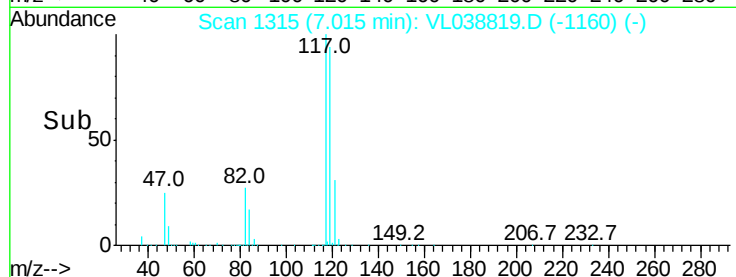
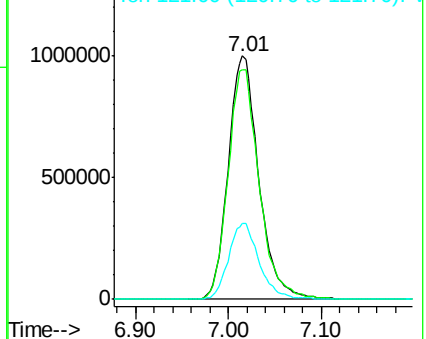
121 31.0 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.30 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

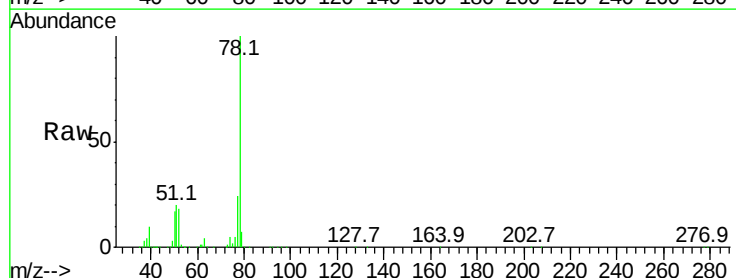
Tgt Ion: 78 Resp: 3311271

Ion Ratio Lower Upper

78 100

77 23.7 18.2 27.2

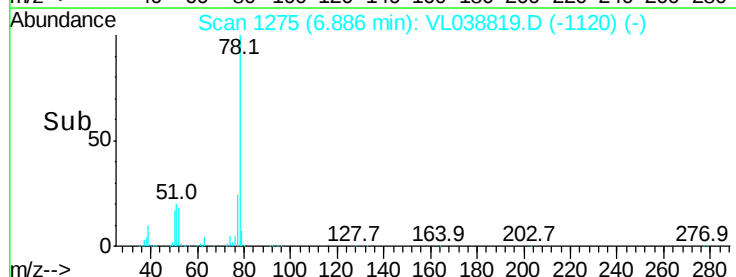
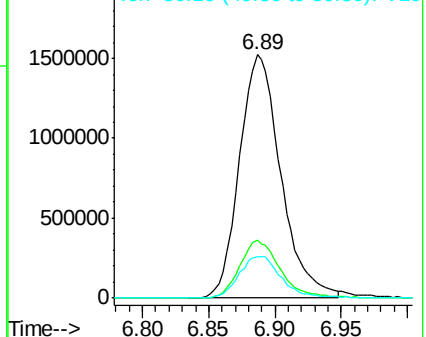
50 17.1 14.0 21.0

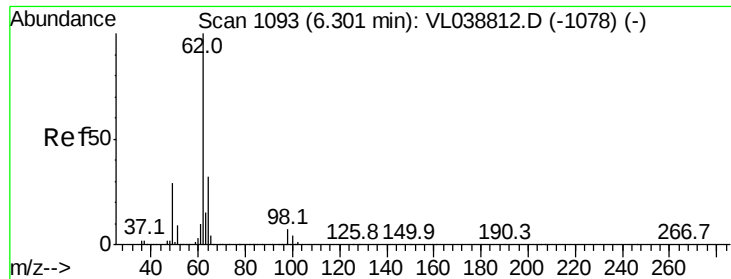


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.03 ppbv

RT: 6.30 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

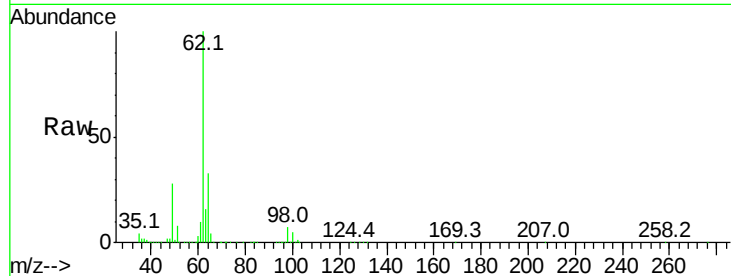
Acq: 5 Apr 2022 20:22

Tgt Ion: 62 Resp: 1631539

Ion Ratio Lower Upper

62 100

98 7.1 5.9 8.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

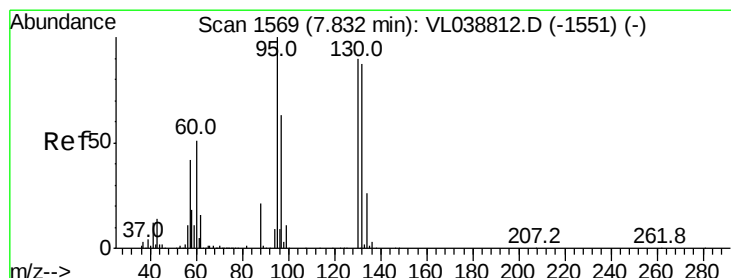
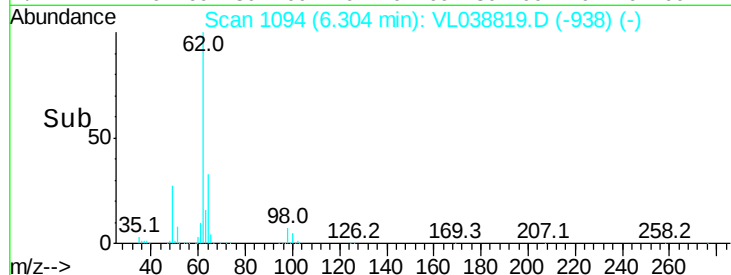
400000

200000

0

6.20 6.25 6.30 6.35 6.40

Time-->



#38

Trichloroethene

Concen: 8.94 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion: 130 Resp: 1304861

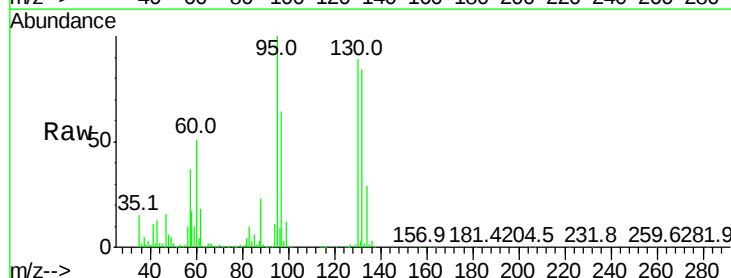
Ion Ratio Lower Upper

130 100

95 112.2 89.4 134.0

132 94.2 77.7 116.5

97 72.1 56.0 84.0



Abundance Ion 130.00 (129.70 to 130.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

1000000

800000

600000

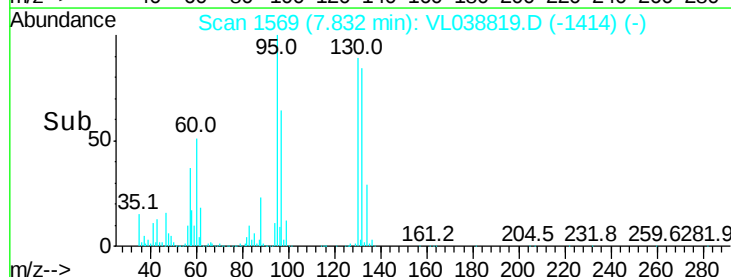
400000

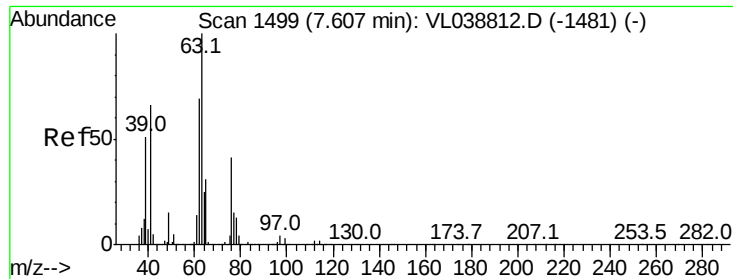
200000

0

7.75 7.80 7.85 7.90

Time-->

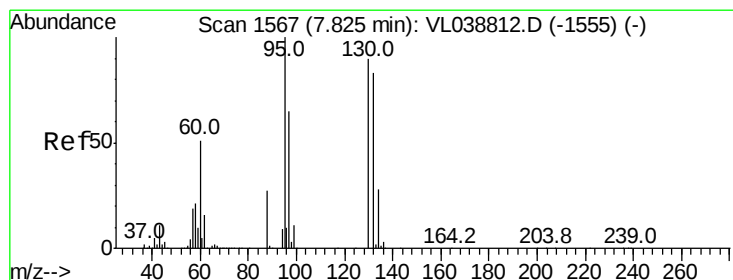
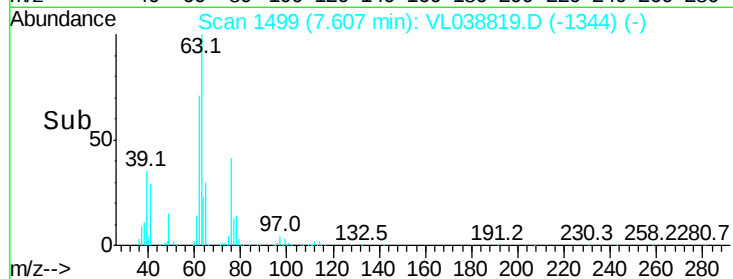
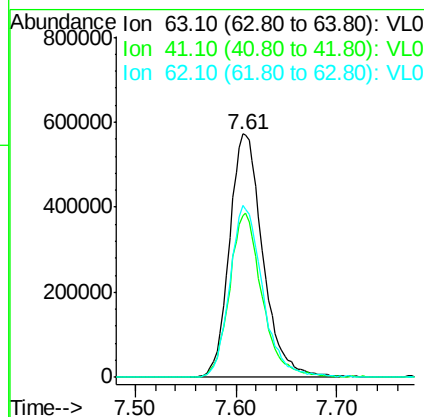
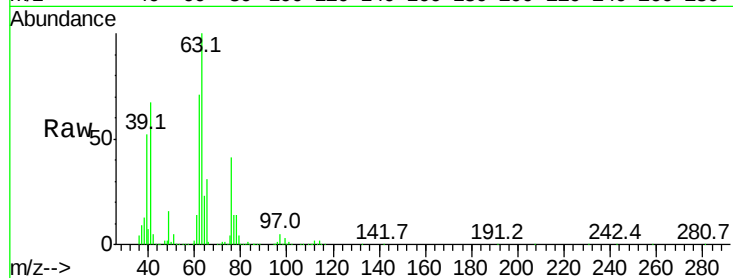




#39  
 1,2-Dichloropropane  
 Concen: 9.68 ppbv  
 RT: 7.61  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId:  
 Acq: 5 Apr 2022 20:22

Tgt Ion: 63 Resp: 1318068

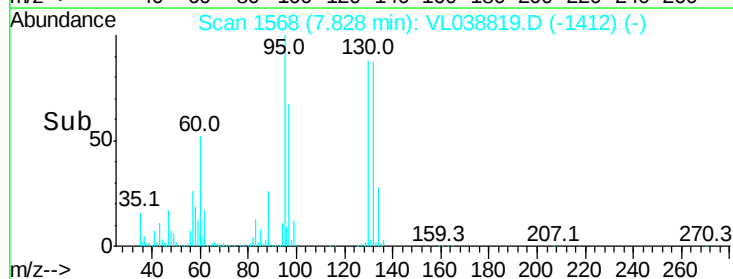
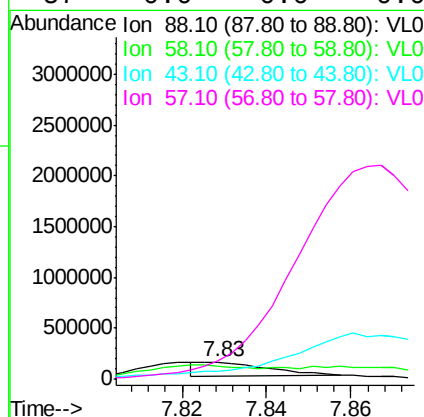
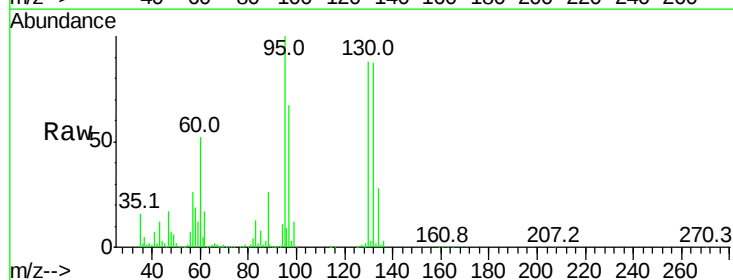
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 66.5  | 53.0  | 79.6  |
| 62  | 70.5  | 55.0  | 82.4  |

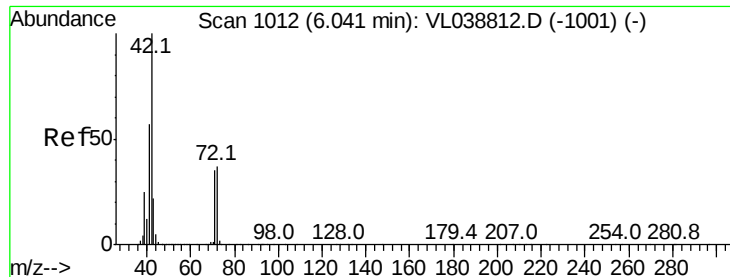


#40  
 1,4-Dioxane  
 Concen: 3.31 ppbv  
 RT: 7.83 min Scan# 1568  
 Delta R.T. 0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

Tgt Ion: 88 Resp: 153022

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 58  | 0.0   | 49.4  | 74.0# |
| 43  | 0.0   | 0.0   | 0.0   |
| 57  | 0.0   | 0.0   | 0.0   |





#41

Tetrahydrofuran

Concen: 9.73 ppbv

RT: 6.04

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

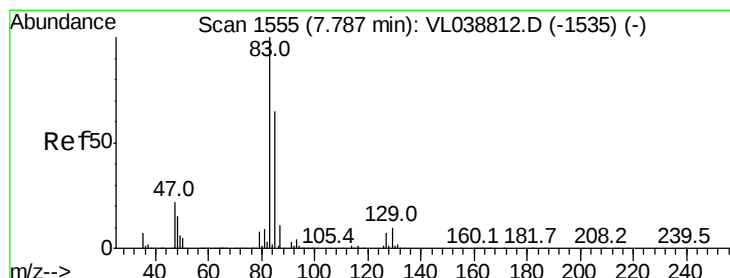
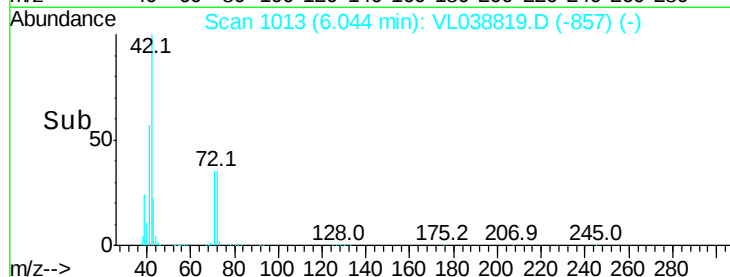
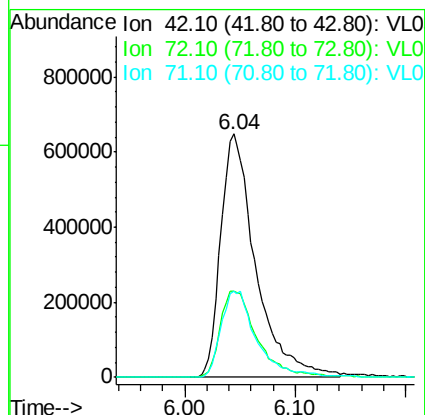
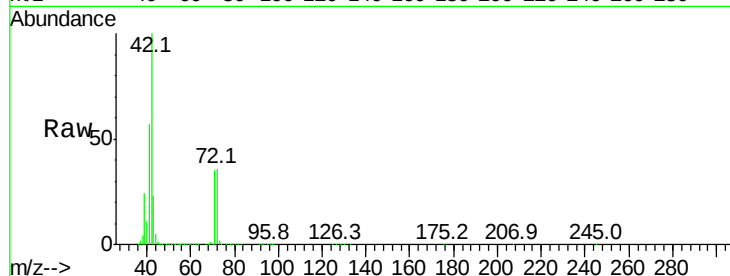
Tgt Ion: 42 Resp: 1429106

Ion Ratio Lower Upper

42 100

72 37.7 31.4 47.0

71 36.6 30.2 45.4



#42

Bromodichloromethane

Concen: 9.89 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

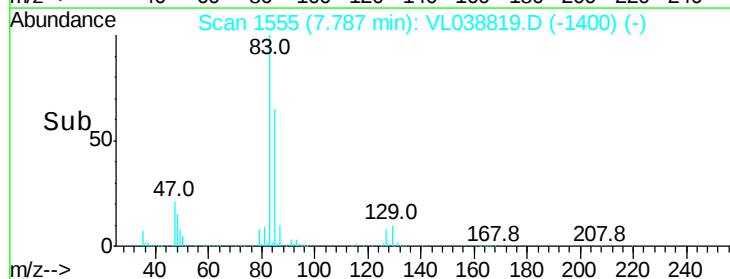
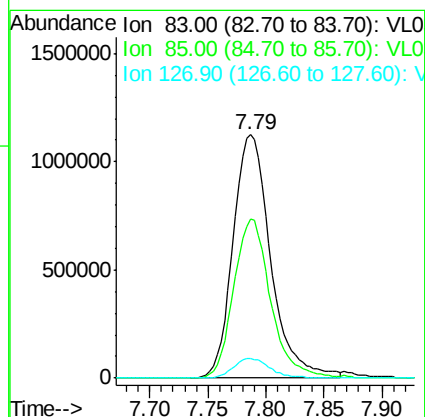
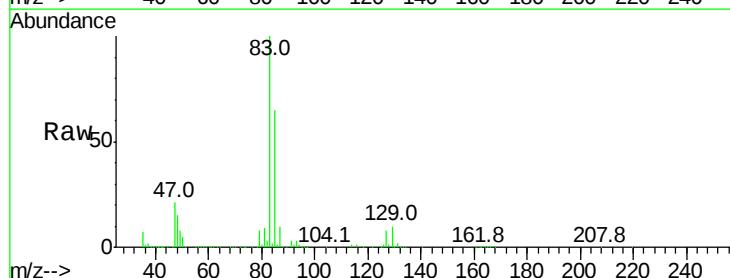
Tgt Ion: 83 Resp: 2539995

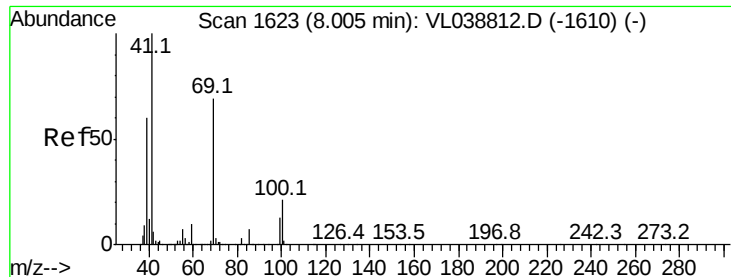
Ion Ratio Lower Upper

83 100

85 65.4 51.7 77.5

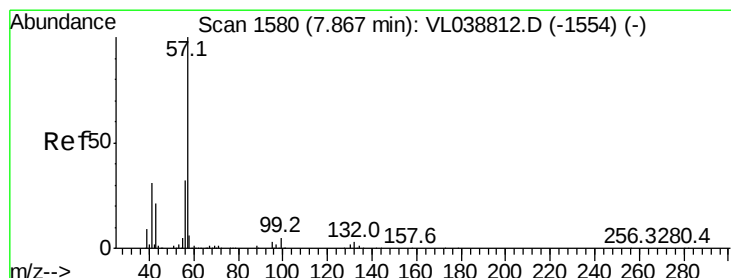
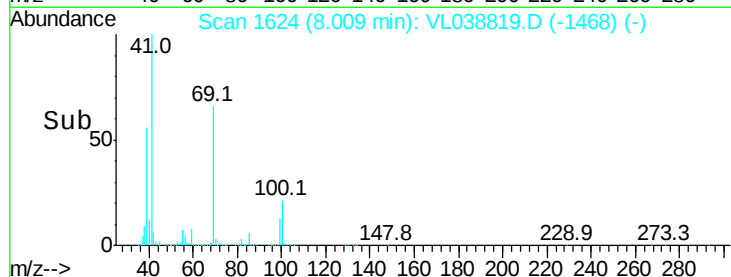
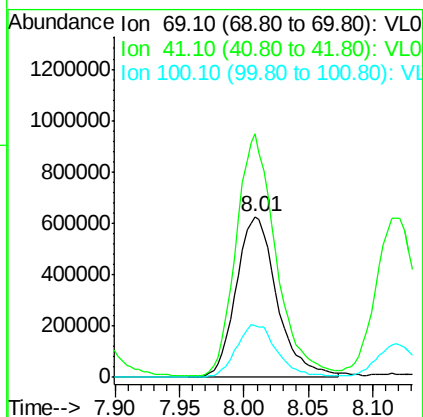
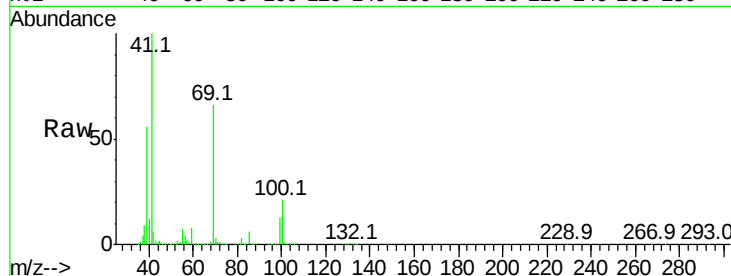
127 8.0 5.9 8.9





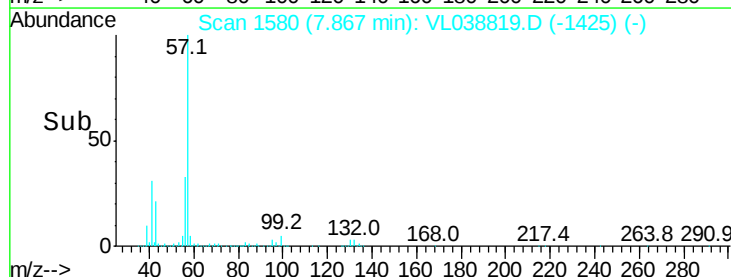
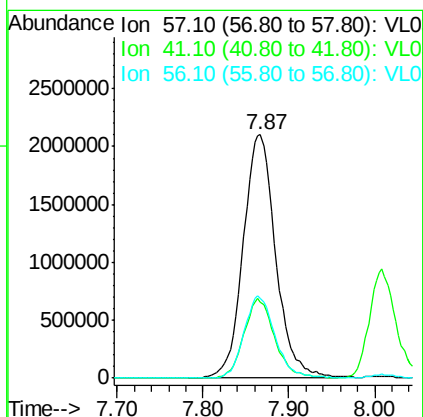
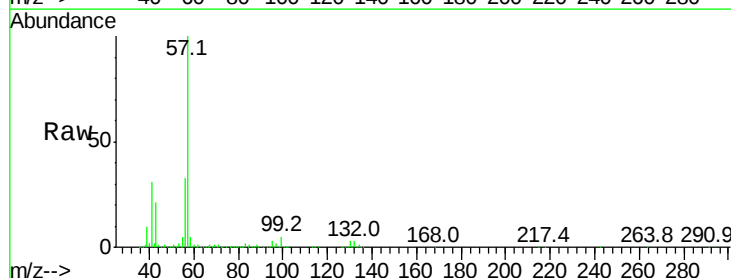
#43  
Methyl Methacrylate  
Concen: 10.13 ppbv  
RT: 8.01  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 5 Apr 2022 20:22

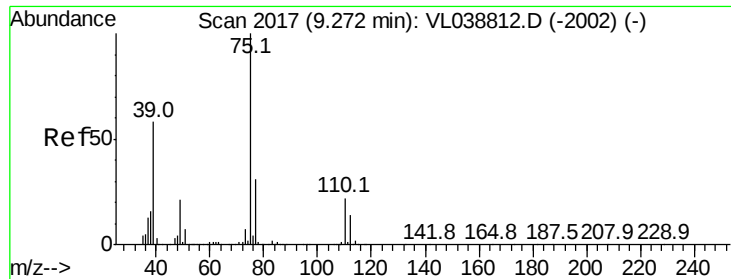
Tgt Ion: 69 Resp: 1381077  
Ion Ratio Lower Upper  
69 100  
41 148.4 119.0 178.4  
100 32.8 26.4 39.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.17 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL038819.D  
Acq: 5 Apr 2022 20:22

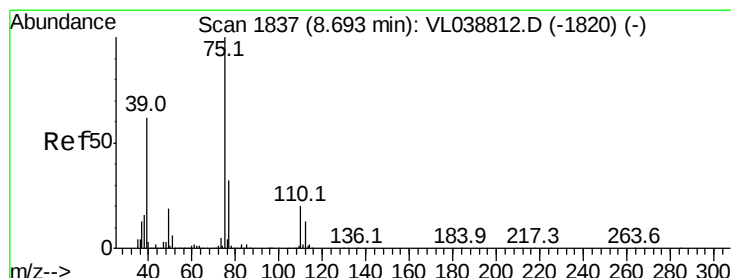
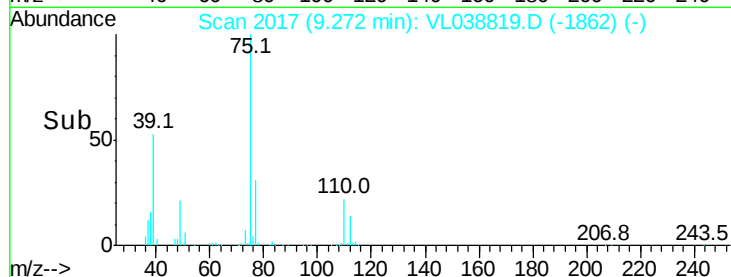
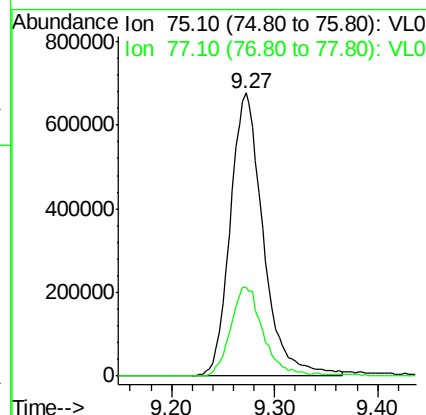
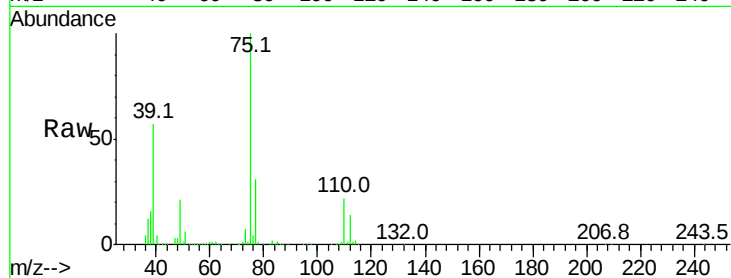
Tgt Ion: 57 Resp: 5526794  
Ion Ratio Lower Upper  
57 100  
41 30.7 25.0 37.4  
56 32.3 25.3 37.9





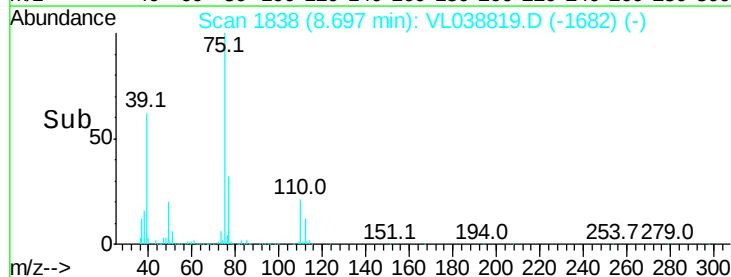
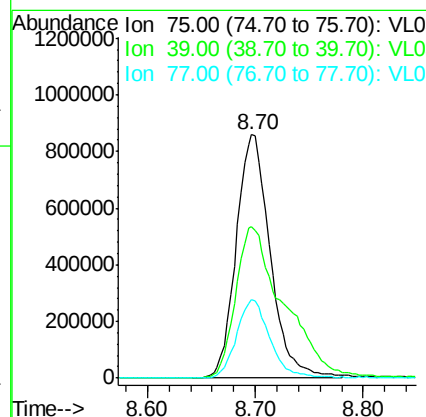
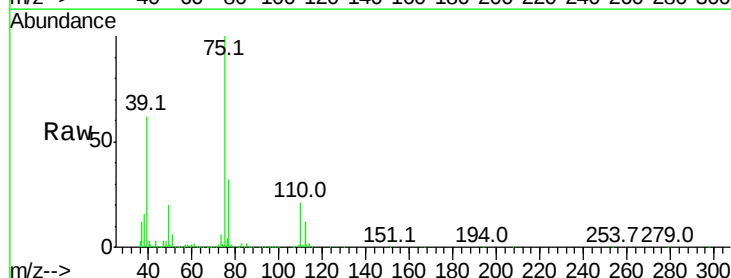
#45  
t-1,3-Dichloropropene  
Concen: 10.53 ppbv  
RT: 9.27  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
ICVVL040522  
Acq: 5 Apr 2022 20:22

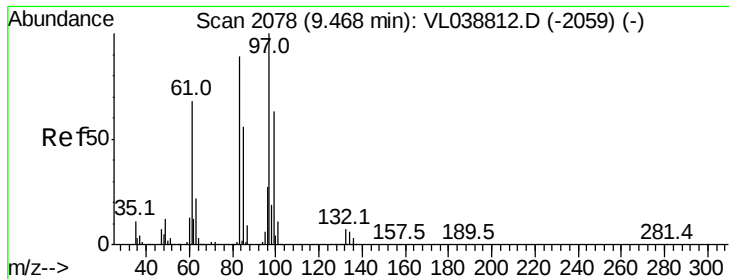
Tgt Ion: 75 Resp: 1500990  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.0 37.4



#46  
cis-1,3-Dichloropropene  
Concen: 10.01 ppbv  
RT: 8.70 min Scan# 1838  
Delta R.T. 0.00 min  
Lab File: VL038819.D  
Acq: 5 Apr 2022 20:22

Tgt Ion: 75 Resp: 1880173  
Ion Ratio Lower Upper  
75 100  
39 61.9 49.7 74.5  
77 32.0 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 9.62 ppbv

RT: 9.47 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

Tgt Ion: 97 Resp: 1342107

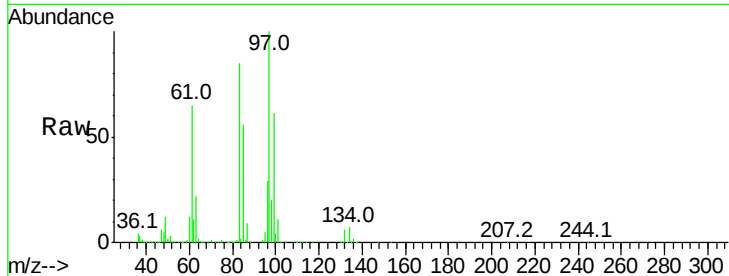
Ion Ratio Lower Upper

97 100

83 85.3 71.1 106.7

85 55.8 45.1 67.7

99 61.0 50.8 76.2

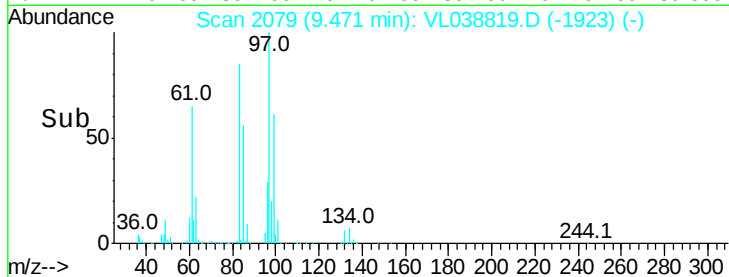
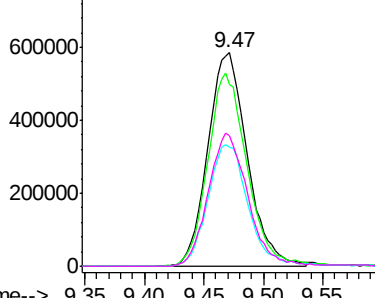


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.90 ppbv

RT: 10.30 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VL038819.D

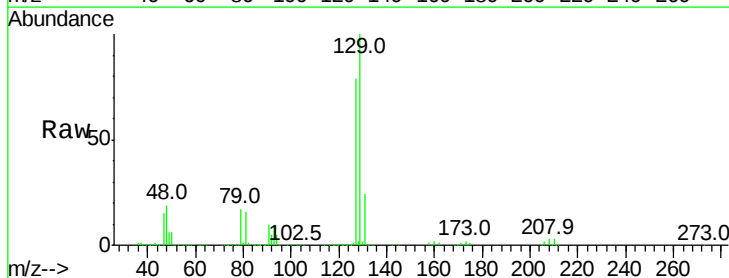
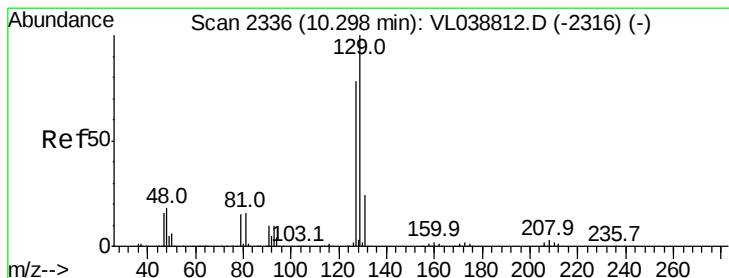
Acq: 5 Apr 2022 20:22

Tgt Ion: 129 Resp: 2164435

Ion Ratio Lower Upper

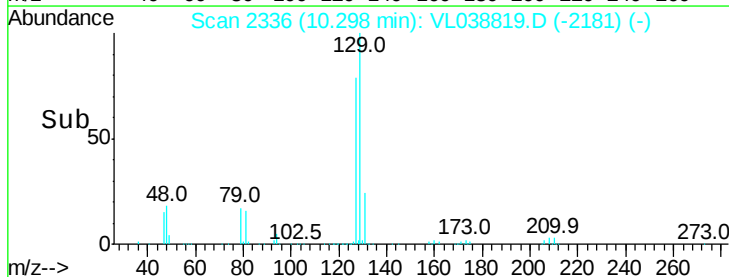
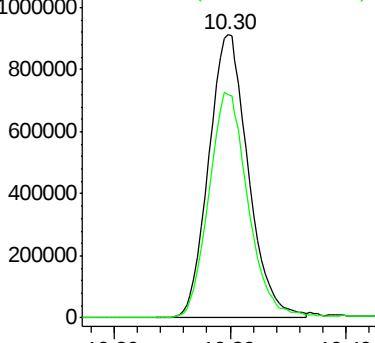
129 100

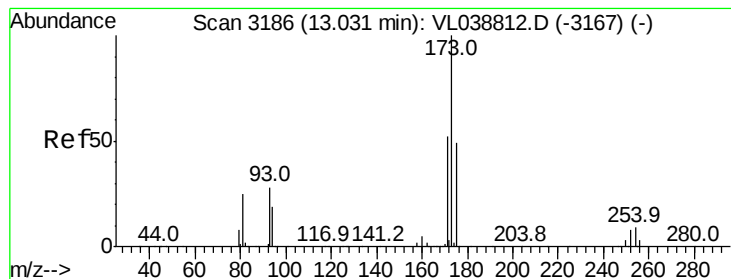
127 80.2 38.9 116.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.88 ppbv

RT: 13.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 20:22

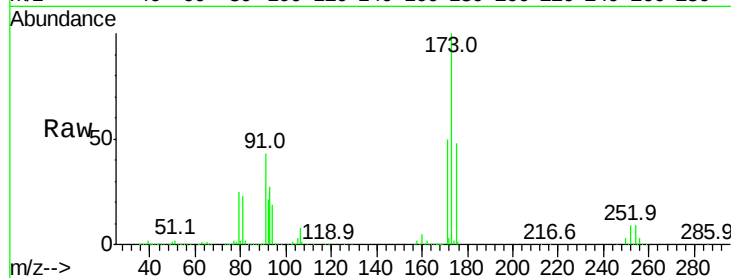
Tgt Ion:173 Resp: 1710777

Ion Ratio Lower Upper

173 100

175 50.8 39.9 59.9

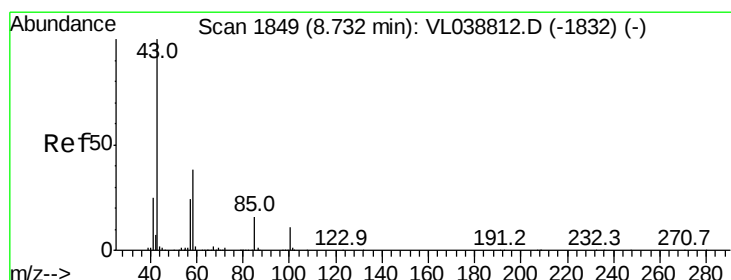
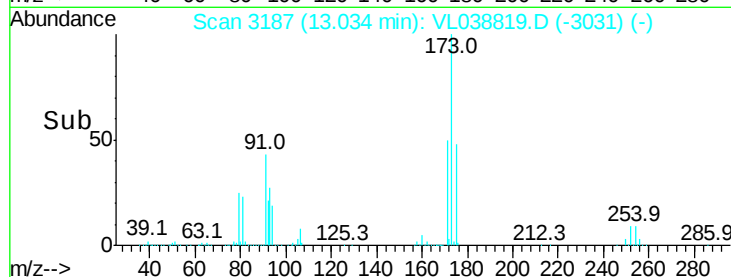
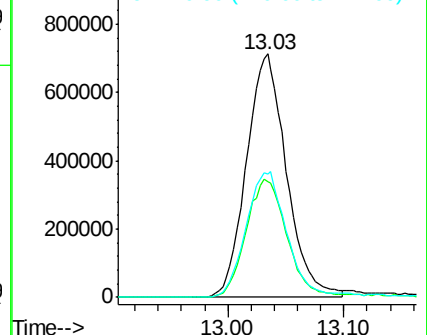
171 54.5 43.4 65.0



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: 9.87 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. -0.00 min

Lab File: VL038819.D

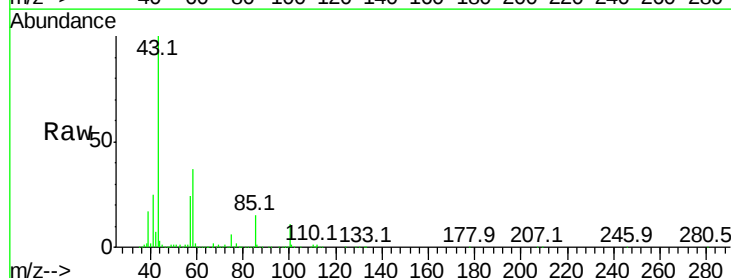
Acq: 5 Apr 2022 20:22

Tgt Ion: 43 Resp: 3431037

Ion Ratio Lower Upper

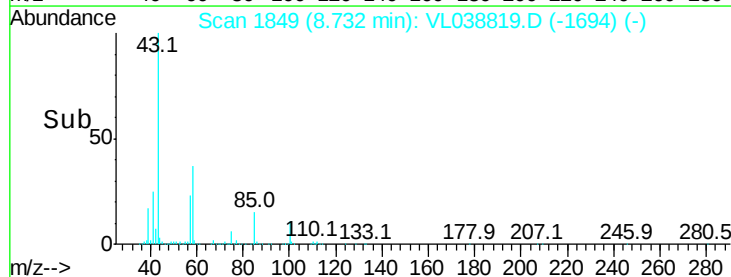
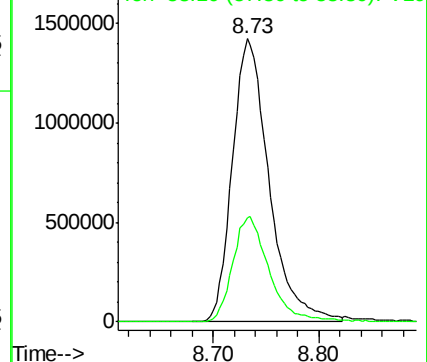
43 100

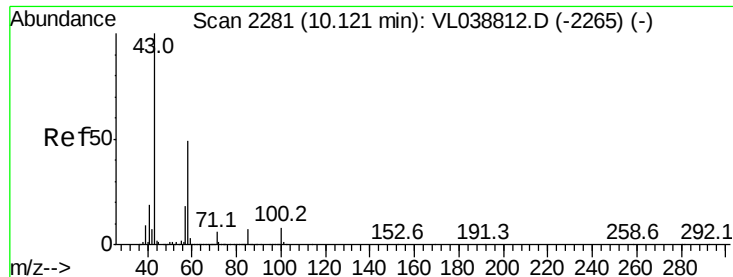
58 37.3 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.33 ppbv

RT: 10.12 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 20:22

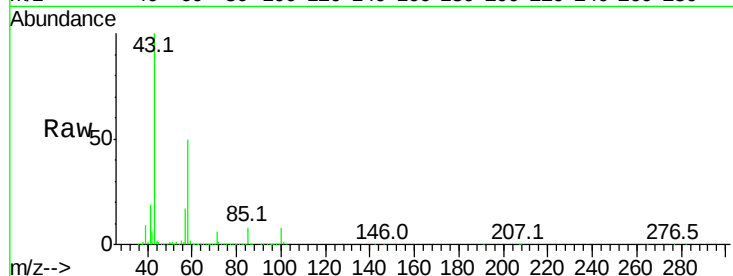
Tgt Ion: 43 Resp: 2706337

Ion Ratio Lower Upper

43 100

58 51.6 41.4 62.0

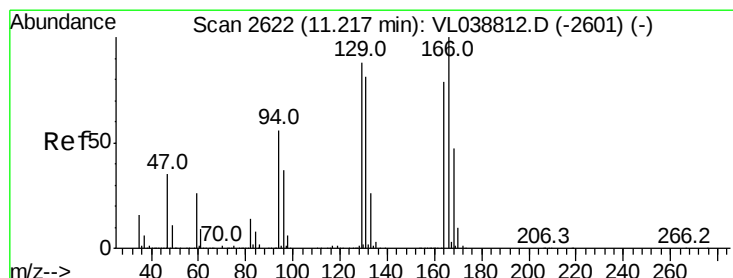
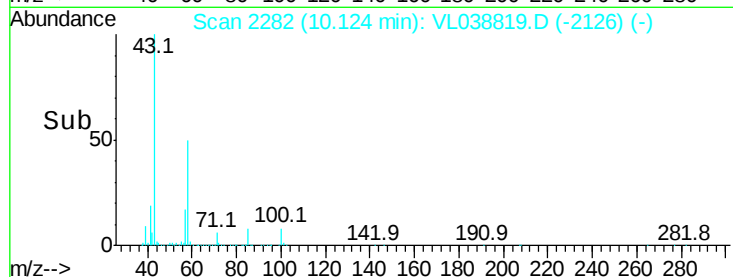
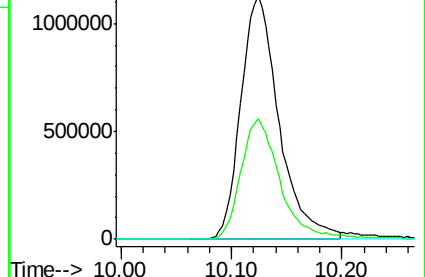
98 0.1 0.1 0.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.92 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion: 164 Resp: 1109043

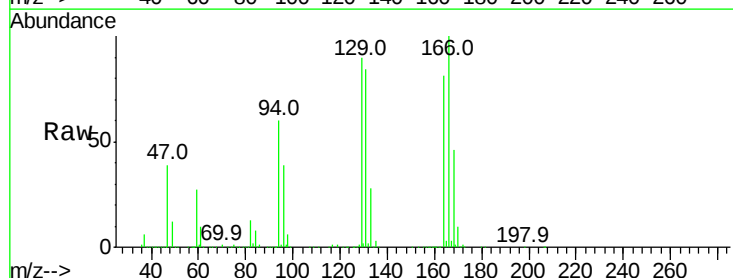
Ion Ratio Lower Upper

164 100

166 123.1 101.0 151.6

129 110.8 88.7 133.1

131 103.7 81.8 122.6

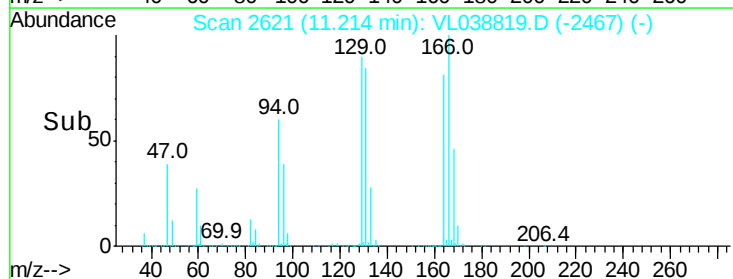
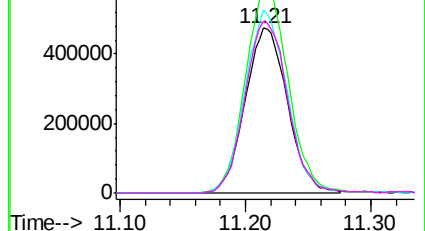


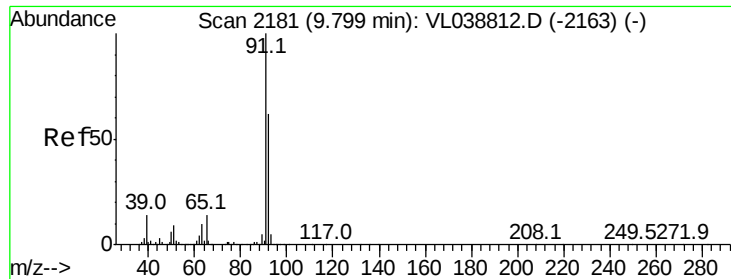
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.42 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

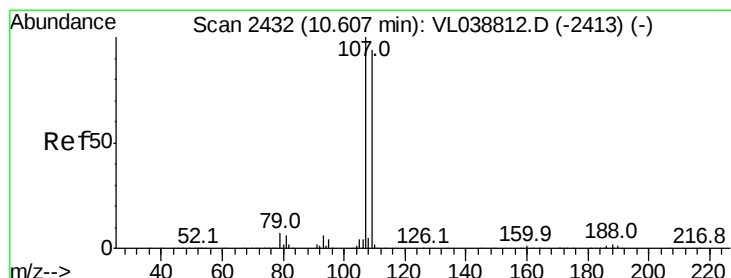
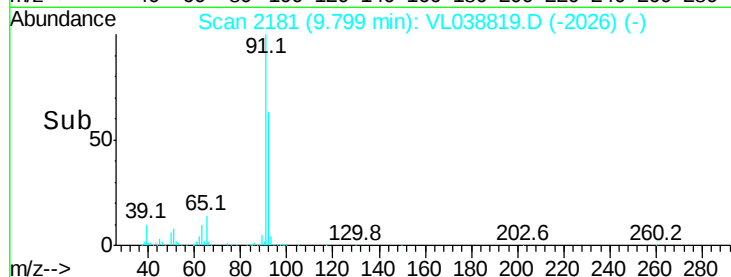
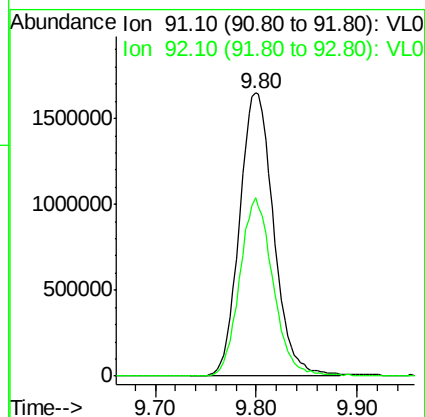
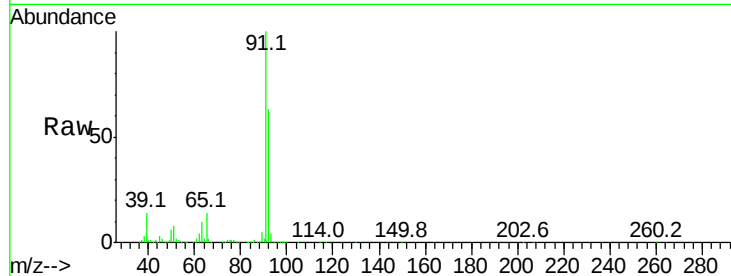
Acq: 5 Apr 2022 20:22

Tgt Ion: 91 Resp: 3869379

Ion Ratio Lower Upper

91 100

92 61.7 49.2 73.8



#54

1,2-Dibromoethane

Concen: 9.81 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL038819.D

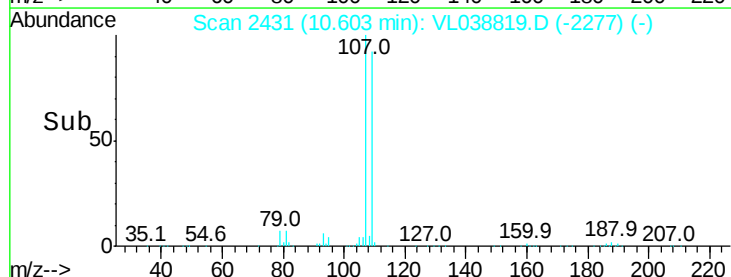
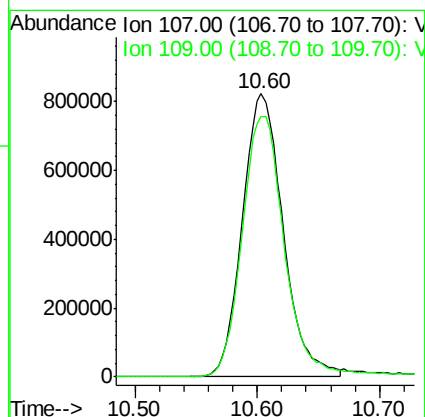
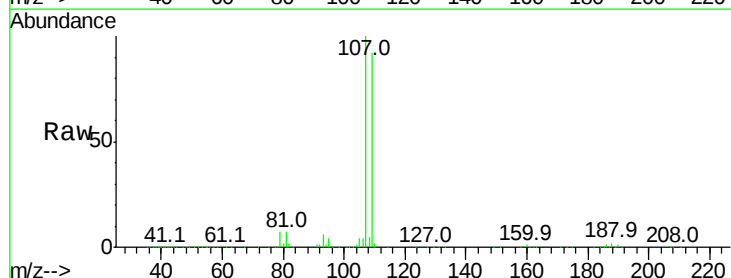
Acq: 5 Apr 2022 20:22

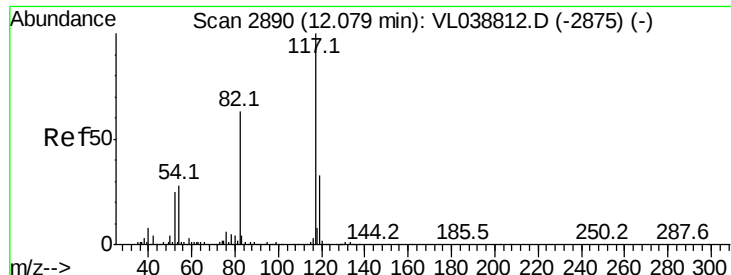
Tgt Ion: 107 Resp: 1900053

Ion Ratio Lower Upper

107 100

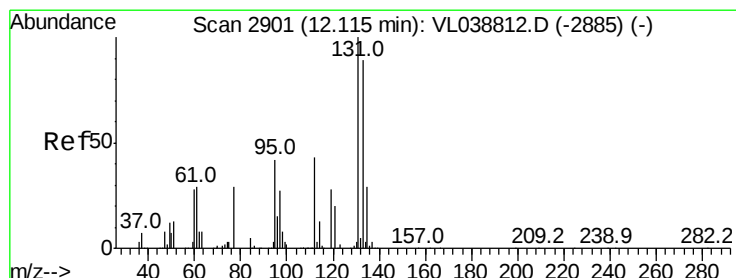
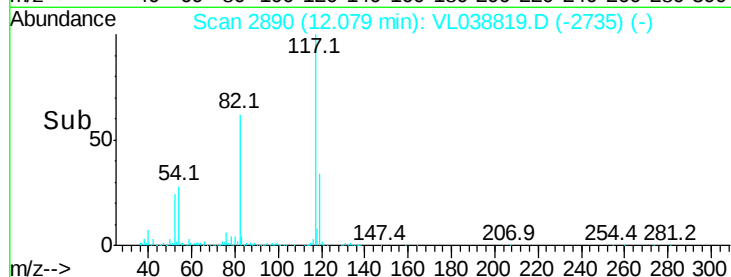
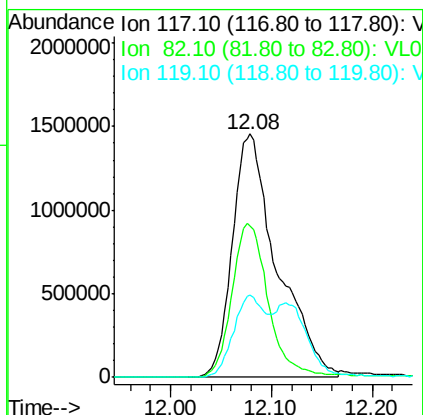
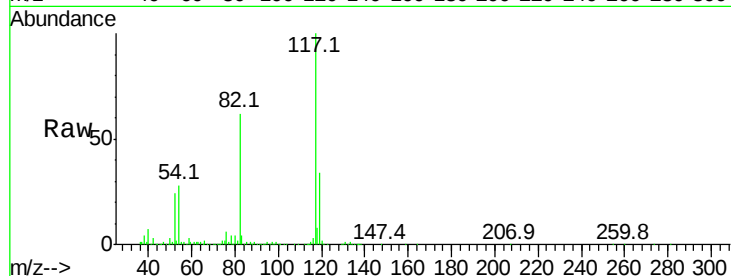
109 92.1 75.5 113.3





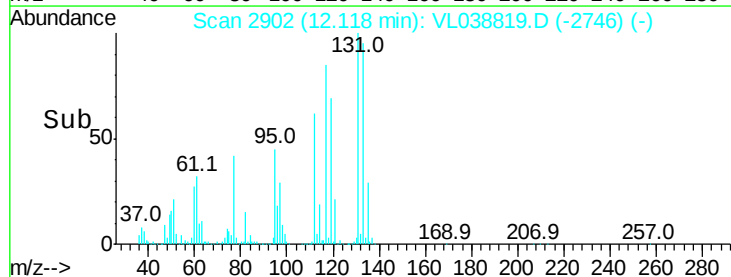
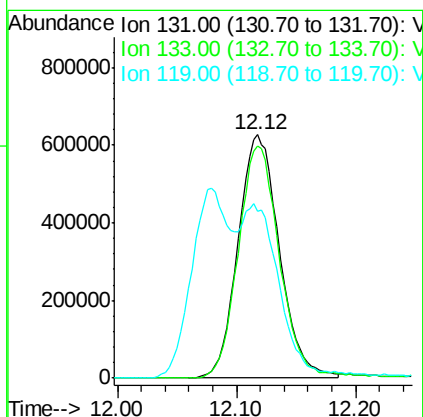
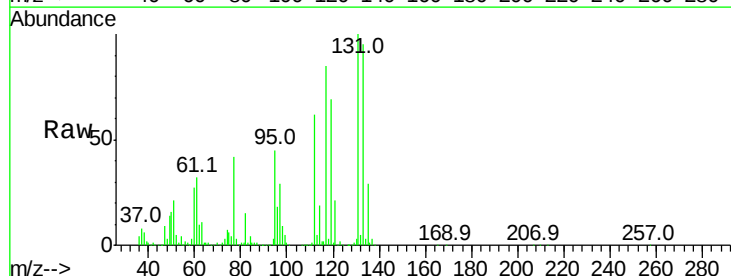
#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.08  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 5 Apr 2022 20:22

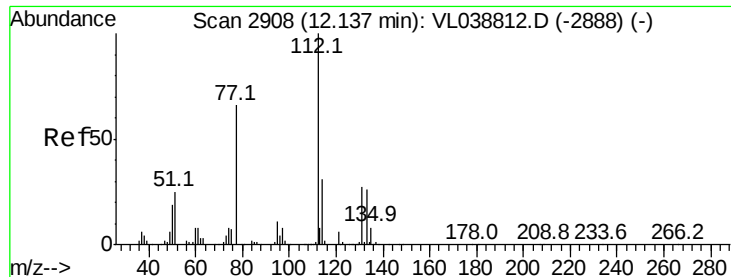
Tgt Ion:117 Resp: 4496334  
Ion Ratio Lower Upper  
117 100  
82 52.0 53.0 79.6#  
119 24.4 24.9 37.3#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.63 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T.: 0.00 min  
Lab File: VL038819.D  
Acq: 5 Apr 2022 20:22

Tgt Ion:131 Resp: 1503829  
Ion Ratio Lower Upper  
131 100  
133 96.7 78.2 117.4  
119 71.2 58.6 87.8





#57

Chlorobenzene

Concen: 7.48 ppbv

RT: 12.14

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

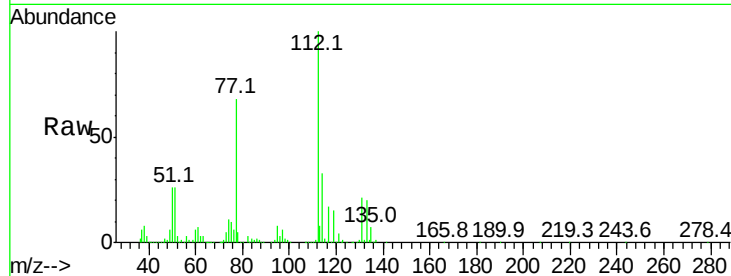
Tgt Ion: 112 Resp: 2754014

Ion Ratio Lower Upper

112 100

77 66.7 52.4 78.6

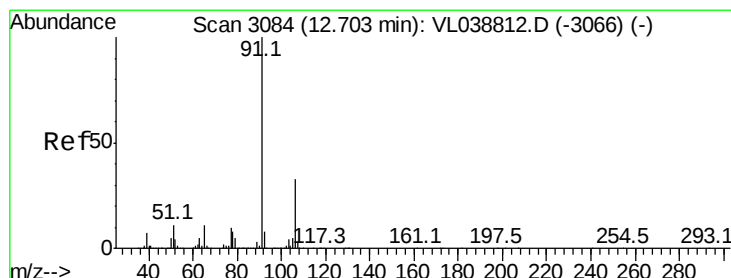
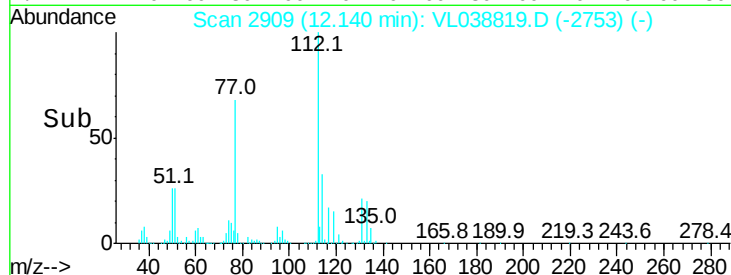
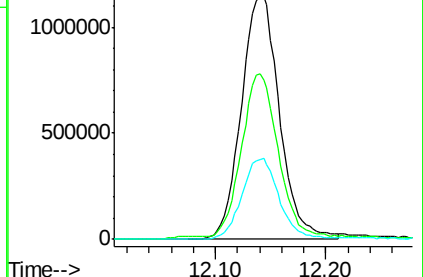
114 32.9 28.1 34.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.58 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL038819.D

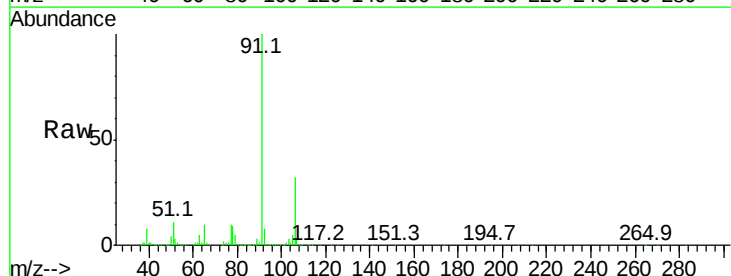
Acq: 5 Apr 2022 20:22

Tgt Ion: 91 Resp: 5095084

Ion Ratio Lower Upper

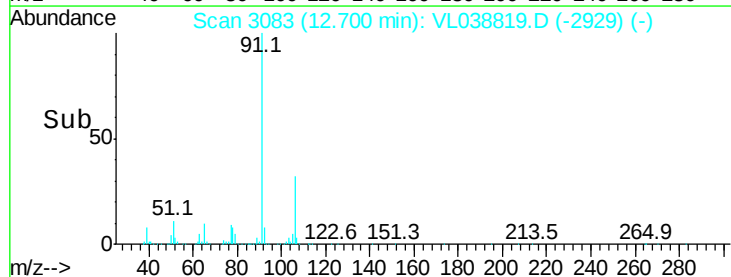
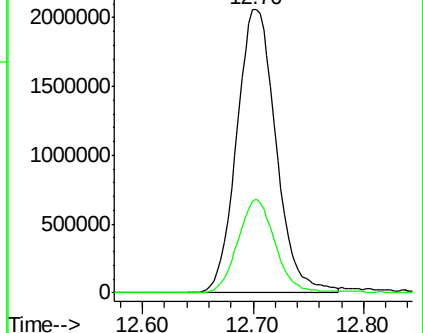
91 100

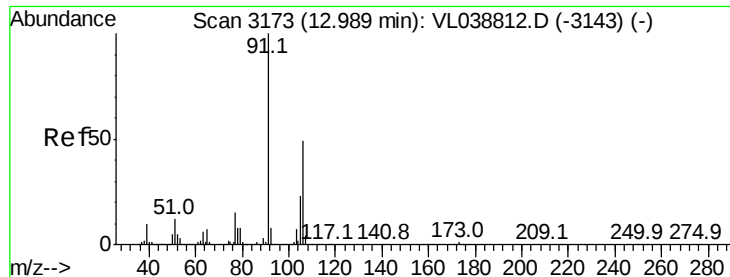
106 32.3 26.7 40.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

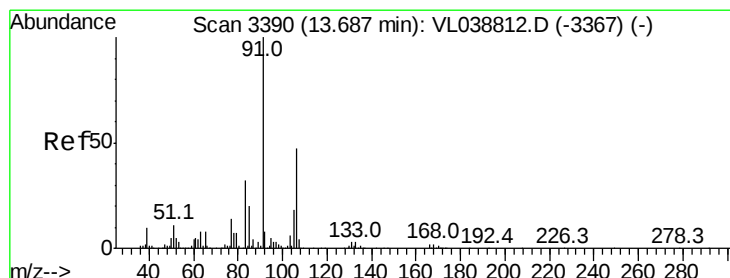
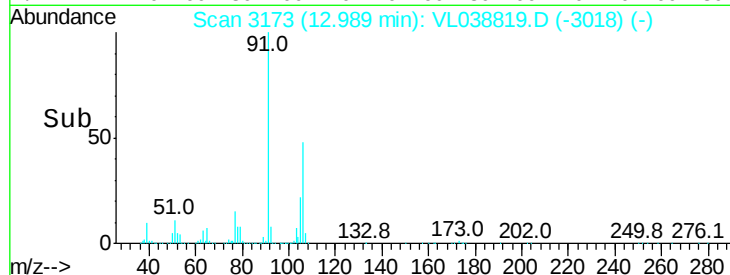
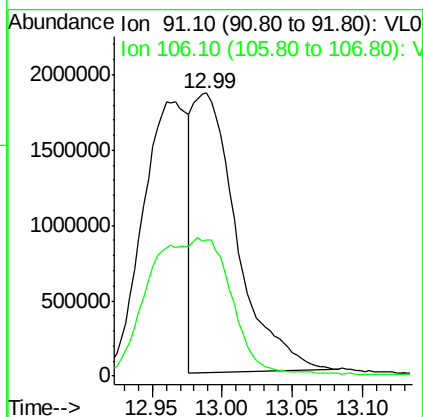
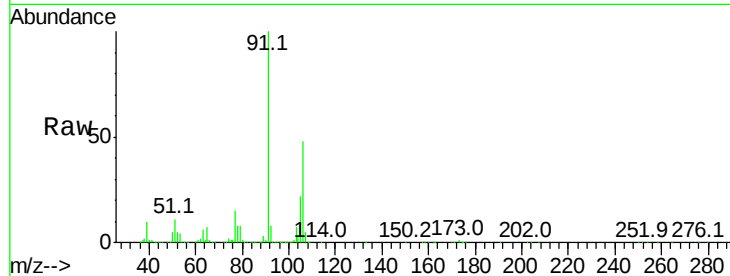
Ion 106.10 (105.80 to 106.80): V





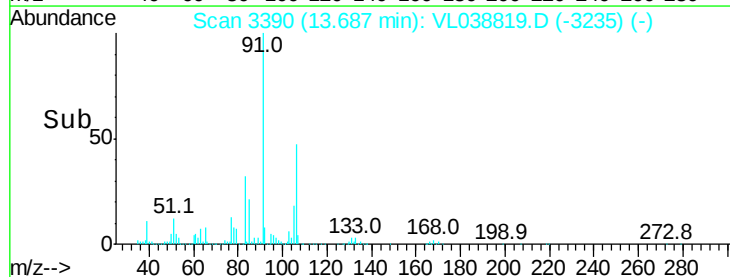
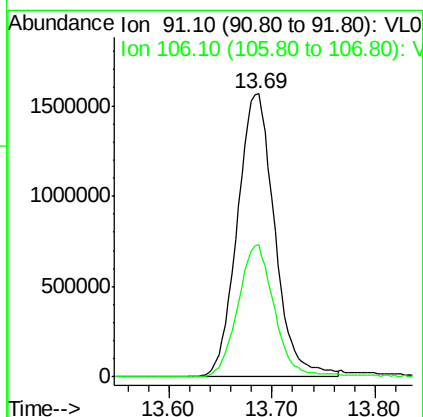
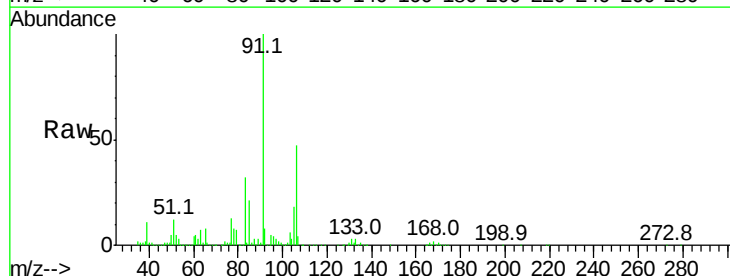
#59  
m/p-Xylene  
Concen: 7.12 ppbv  
RT: 12.99 min  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
Acq: 5 Apr 2022 20:22

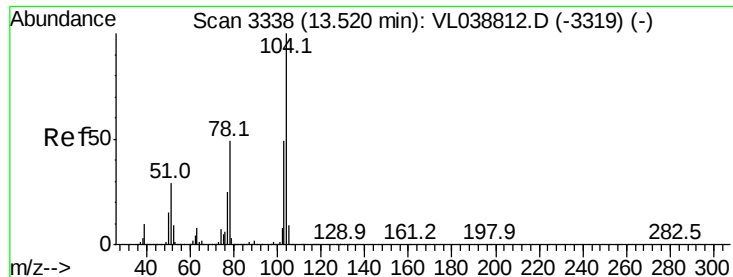
Tgt Ion: 91 Resp: 4019557  
Ion Ratio Lower Upper  
91 100  
106 95.6 37.1 55.7#



#60  
o-Xylene  
Concen: 7.45 ppbv  
RT: 13.69 min Scan# 3390  
Delta R.T. -0.00 min  
Lab File: VL038819.D  
Acq: 5 Apr 2022 20:22

Tgt Ion: 91 Resp: 3934349  
Ion Ratio Lower Upper  
91 100  
106 46.5 23.8 71.4





#61

Styrene

Concen: 7.79 ppbv

RT: 13.52

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

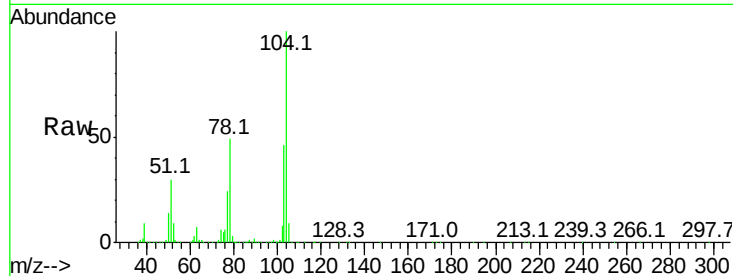
Tgt Ion:104 Resp: 2506638

Ion Ratio Lower Upper

104 100

78 51.4 40.5 60.7

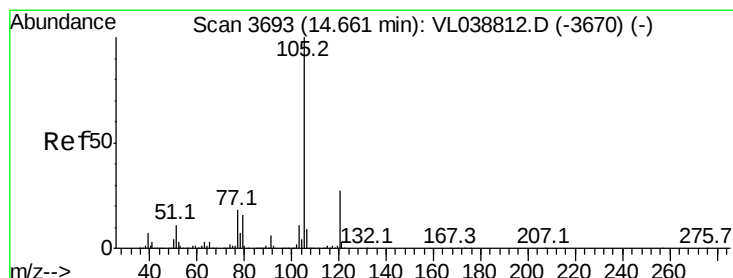
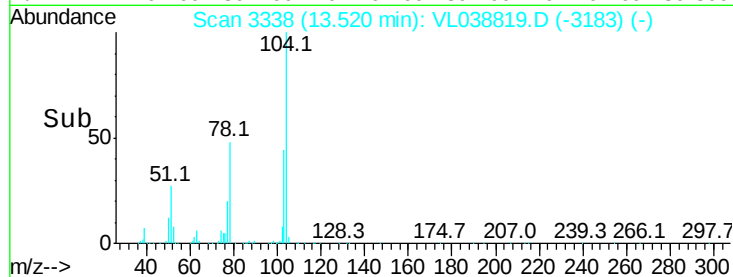
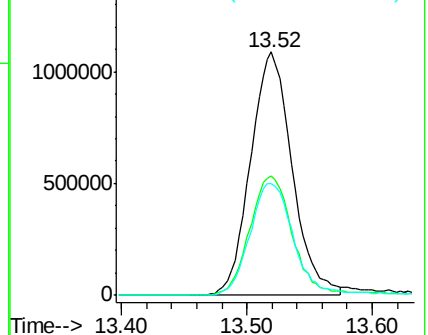
103 49.2 39.0 58.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.32 ppbv

RT: 14.66 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL038819.D

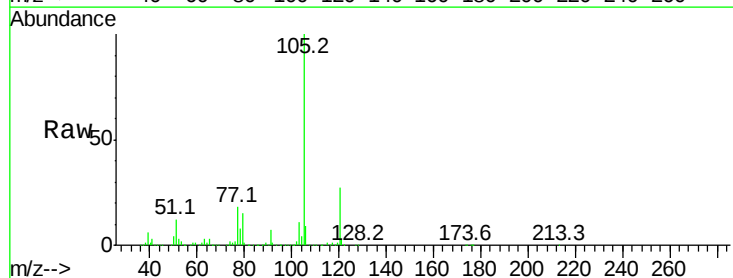
Acq: 5 Apr 2022 20:22

Tgt Ion:105 Resp: 5800100

Ion Ratio Lower Upper

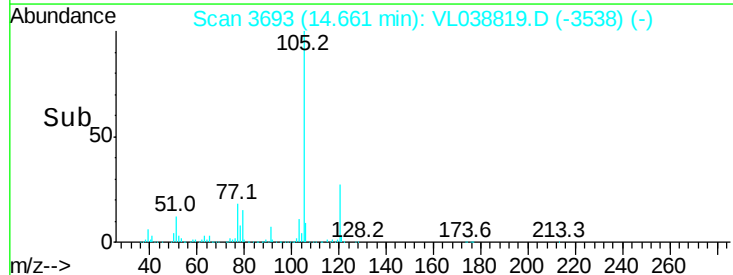
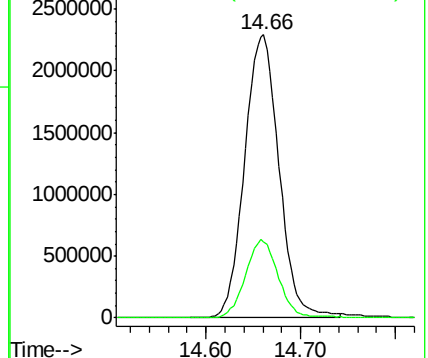
105 100

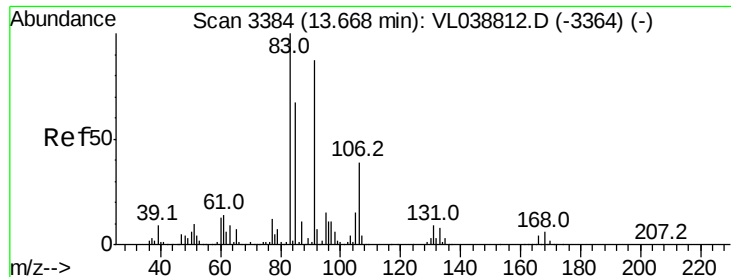
120 26.7 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.47 ppbv

RT: 13.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 Apr 2022 20:22

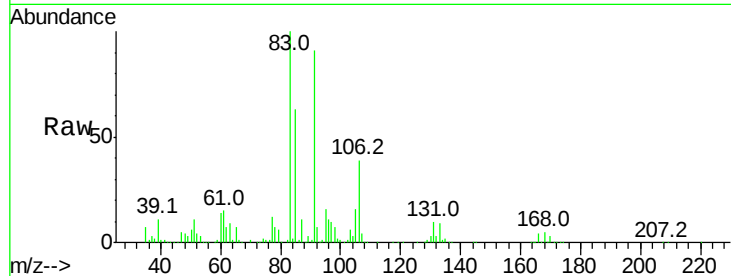
Tgt Ion: 83 Resp: 2499445

Ion Ratio Lower Upper

83 100

131 9.1 4.6 13.8

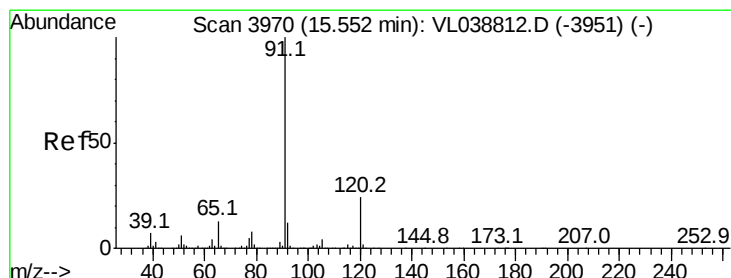
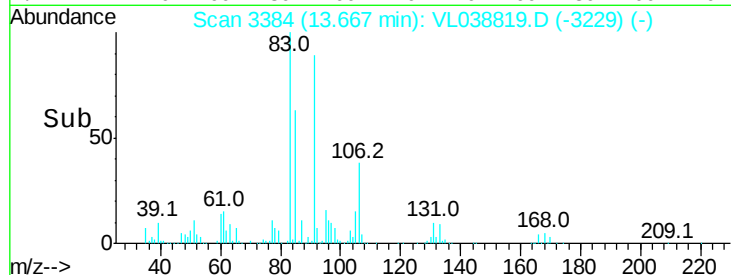
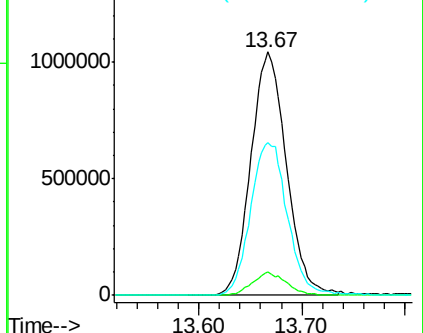
85 65.4 33.0 99.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.63 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VL038819.D

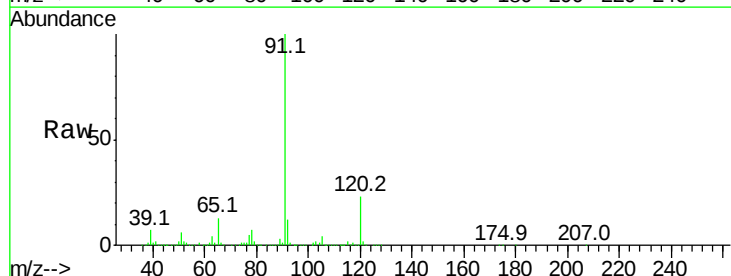
Acq: 5 Apr 2022 20:22

Tgt Ion: 120 Resp: 1571640

Ion Ratio Lower Upper

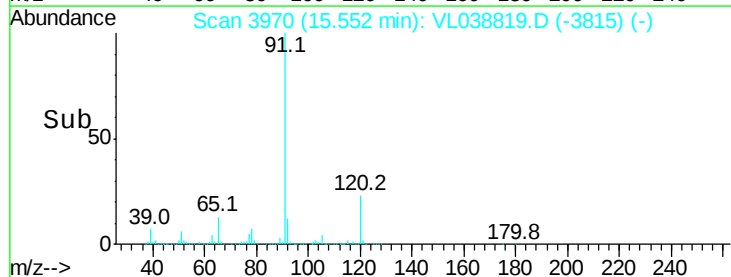
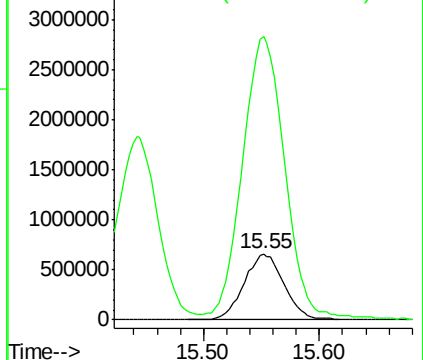
120 100

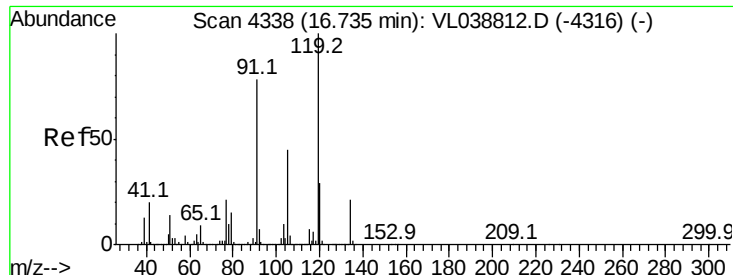
91 460.5 360.6 540.8



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.14 ppbv

RT: 16.73

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

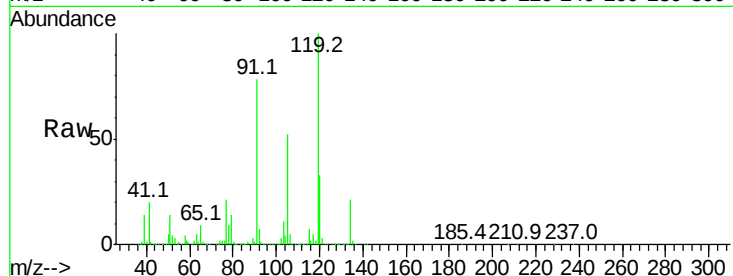
Tgt Ion: 119 Resp: 5020424

Ion Ratio Lower Upper

119 100

91 79.7 62.8 94.2

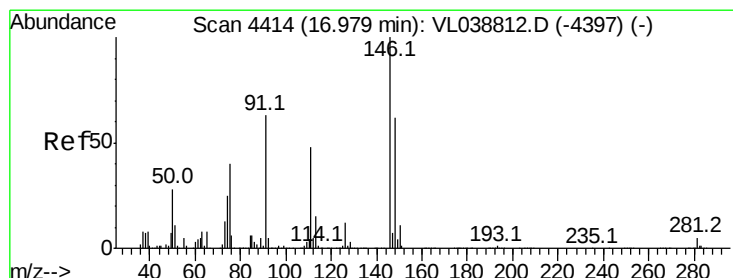
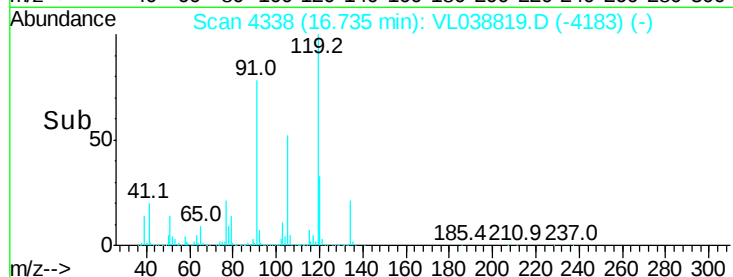
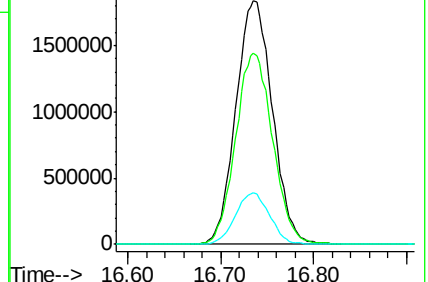
134 20.0 16.2 24.4



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.32 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

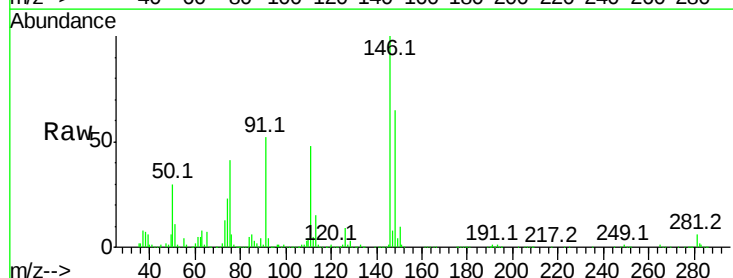
Tgt Ion: 91 Resp: 1047741

Ion Ratio Lower Upper

91 100

126 18.6 15.4 23.0

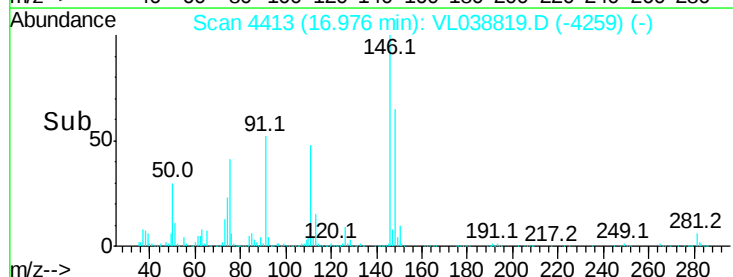
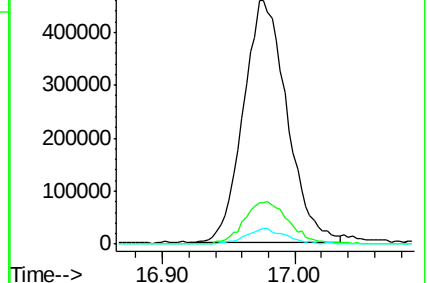
128 6.1 4.7 7.1

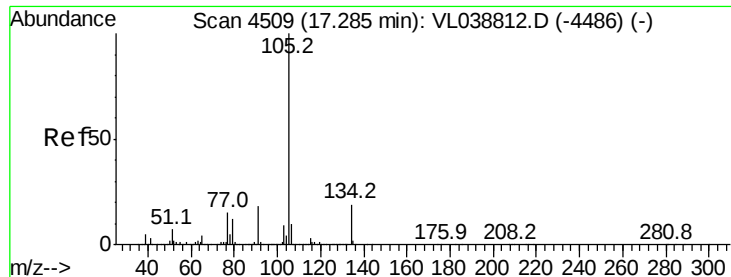


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

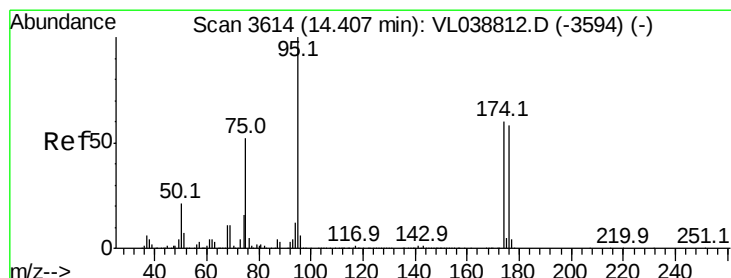
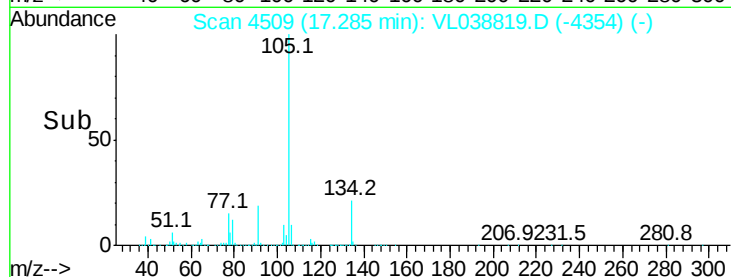
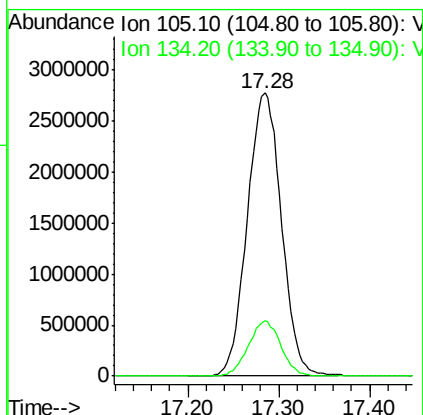
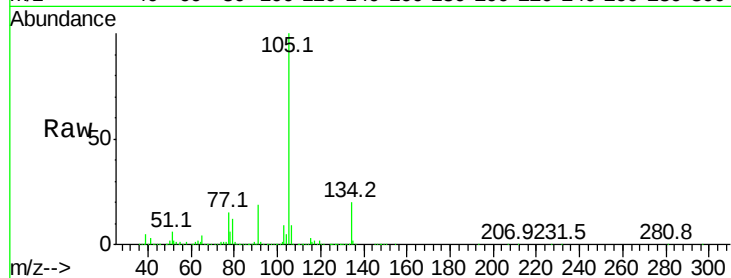
Ion 128.10 (127.80 to 128.80): V





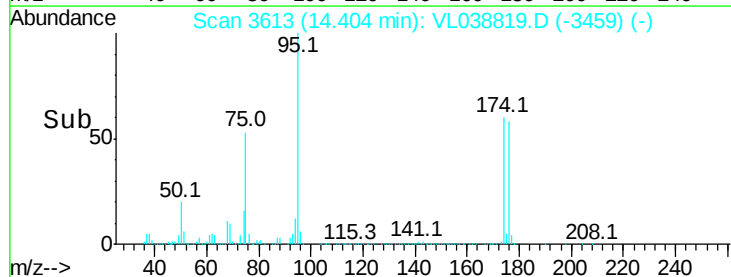
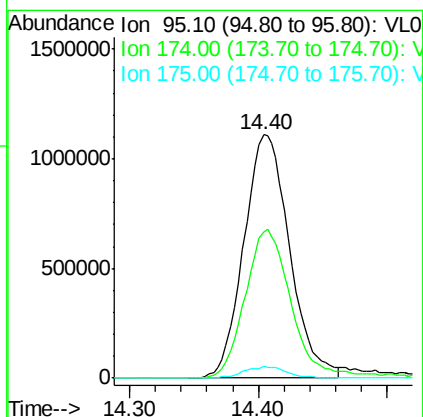
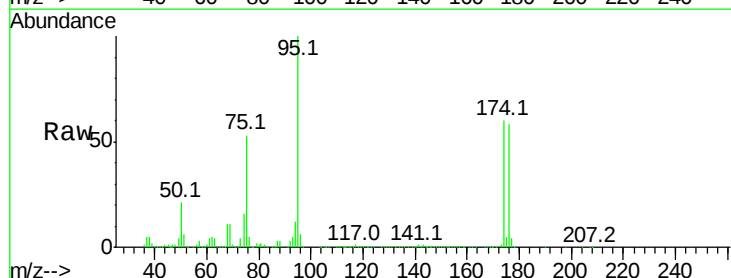
#67  
 sec-Butylbenzene  
 Concen: 7.30 ppbv  
 RT: 17.28 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20:22

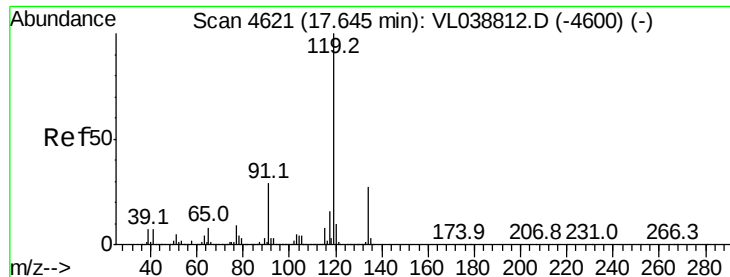
Tgt Ion: 105 Resp: 7204970  
 Ion Ratio Lower Upper  
 105 100  
 134 18.7 15.1 22.7



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.04 ppbv  
 RT: 14.40 min Scan# 3613  
 Delta R.T. -0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

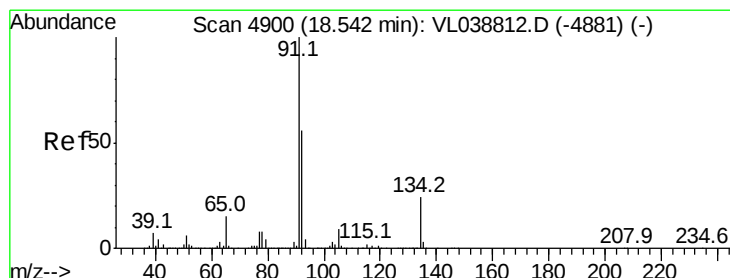
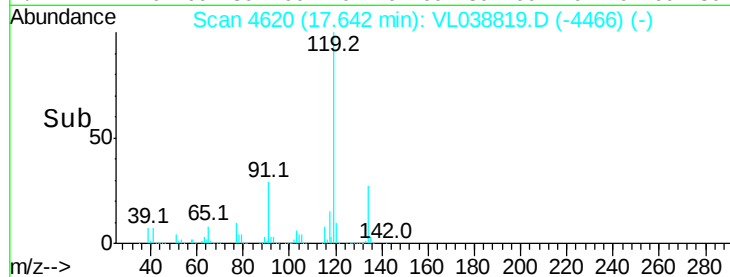
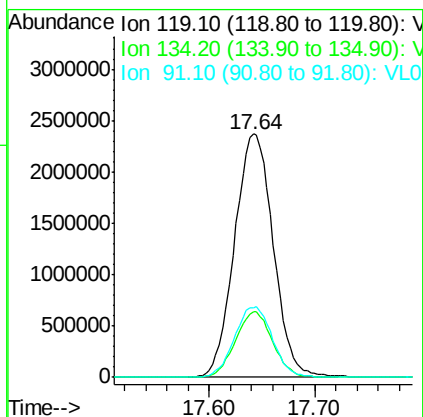
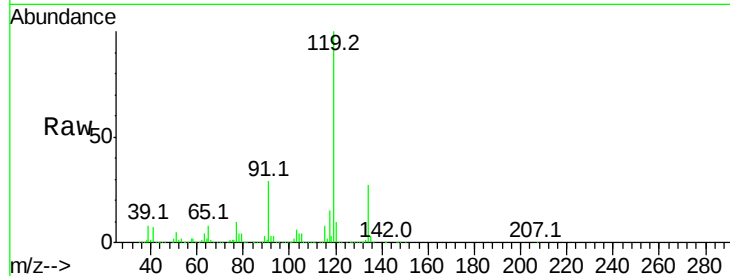
Tgt Ion: 95 Resp: 2742937  
 Ion Ratio Lower Upper  
 95 100  
 174 63.4 52.0 78.0  
 175 4.6 4.0 6.0





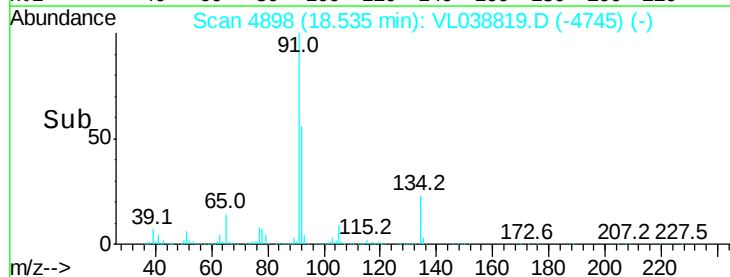
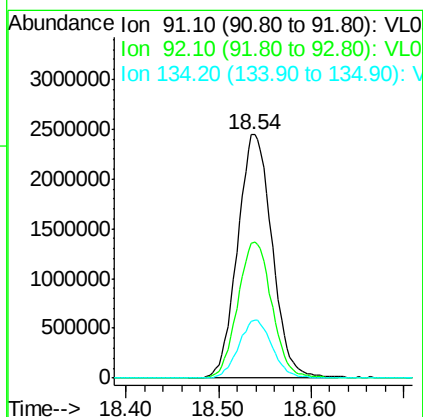
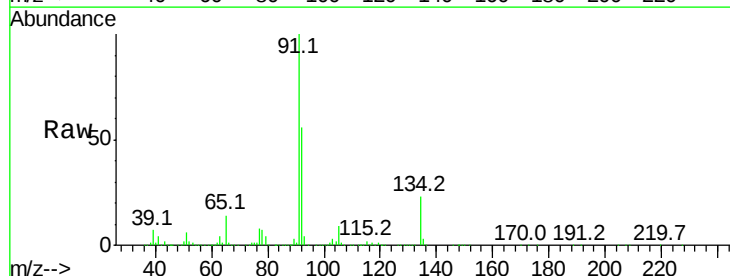
#69  
 p-Isopropyltoluene  
 Concen: 7.43 ppbv  
 RT: 17.64 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20:22

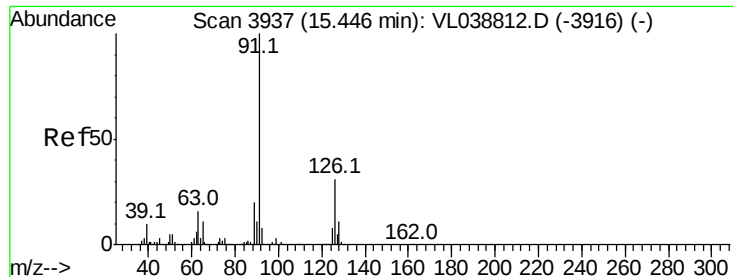
Tgt Ion: 119 Resp: 6022526  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 20.8 31.2  
 91 28.6 22.6 34.0



#70  
 n-Butylbenzene  
 Concen: 7.75 ppbv  
 RT: 18.54 min Scan# 4898  
 Delta R.T. -0.01 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

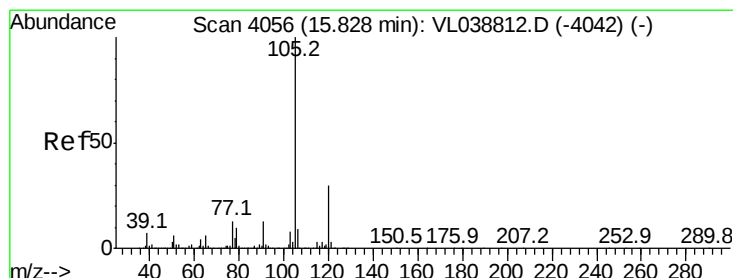
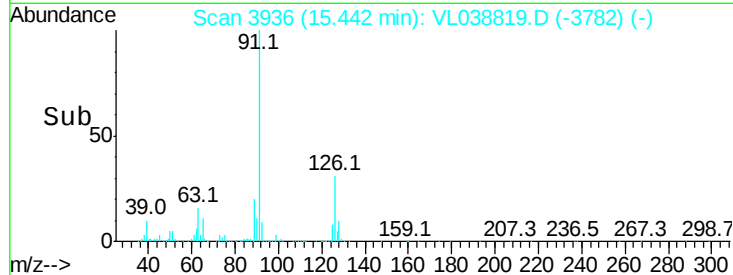
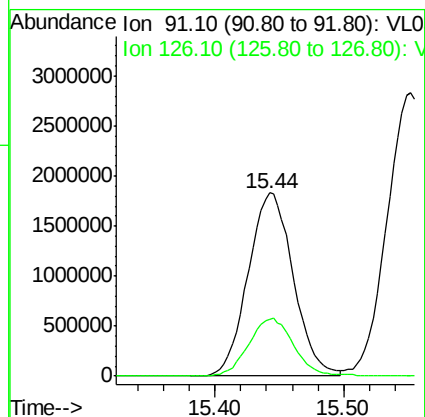
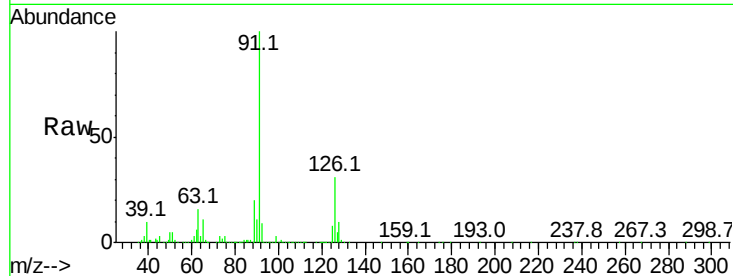
Tgt Ion: 91 Resp: 6329287  
 Ion Ratio Lower Upper  
 91 100  
 92 55.5 44.6 66.8  
 134 23.3 19.2 28.8





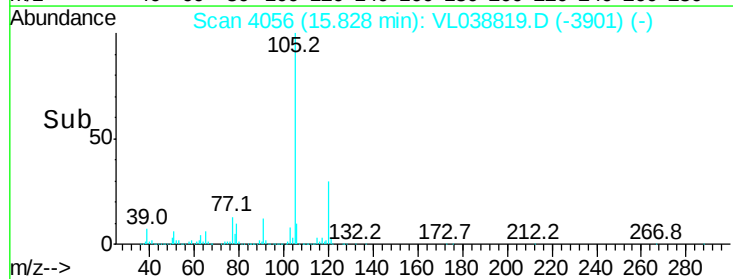
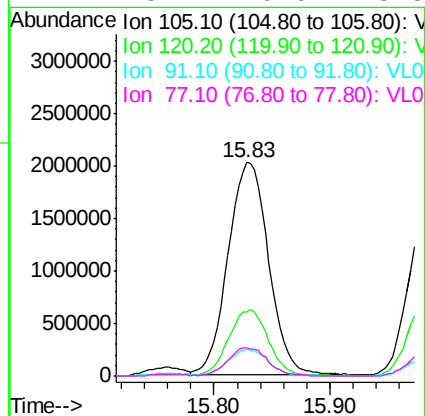
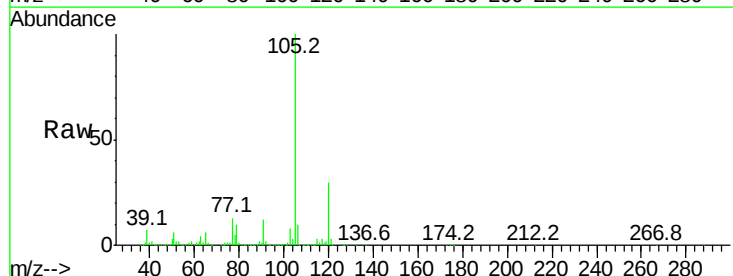
#71  
 2-Chlorotoluene  
 Concen: 7.49 ppbv  
 RT: 15.44  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20:22

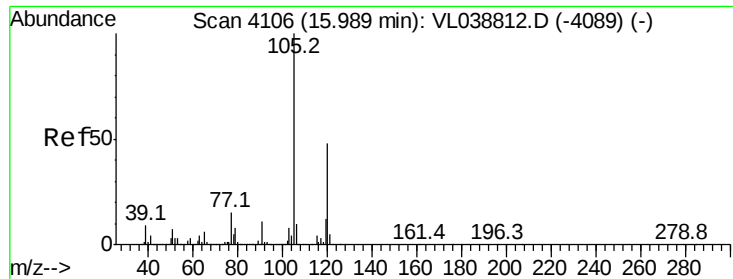
Tgt Ion: 91 Resp: 4464543  
 Ion Ratio Lower Upper  
 91 100  
 126 32.1 13.0 51.8



#72  
 4-Ethyltoluene  
 Concen: 7.75 ppbv  
 RT: 15.83 min Scan# 4056  
 Delta R.T. -0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

Tgt Ion: 105 Resp: 4886752  
 Ion Ratio Lower Upper  
 105 100  
 120 30.8 24.3 36.5  
 91 12.4 9.4 14.2  
 77 13.1 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 7.62 ppbv

RT: 15.99

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

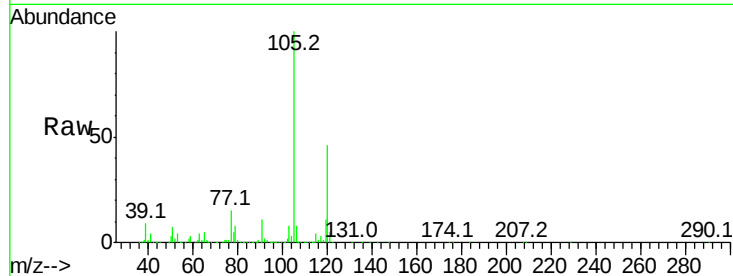
Acq: 5 Apr 2022 20:22

Tgt Ion:105 Resp: 4318175

Ion Ratio Lower Upper

105 100

120 46.3 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

1000000

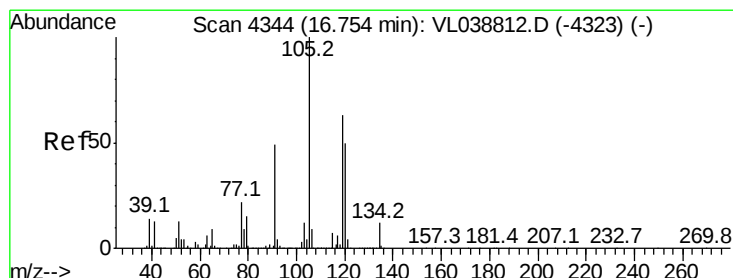
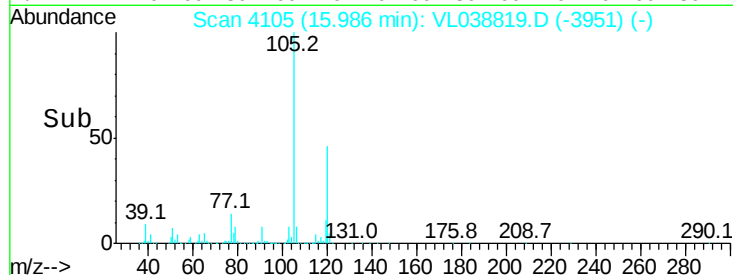
500000

0

15.90

16.00

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.43 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

Tgt Ion:105 Resp: 4452662

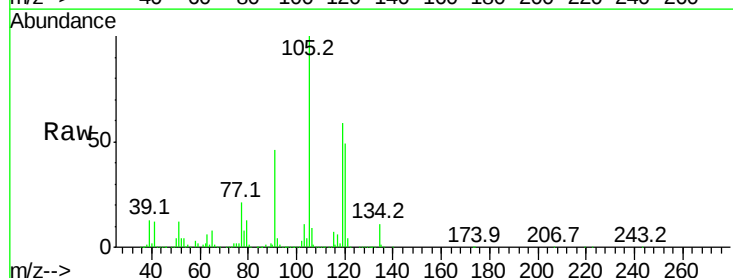
Ion Ratio Lower Upper

105 100

120 49.1 39.8 59.8

91 45.8 39.4 59.0

77 20.8 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

2500000

2000000

1500000

1000000

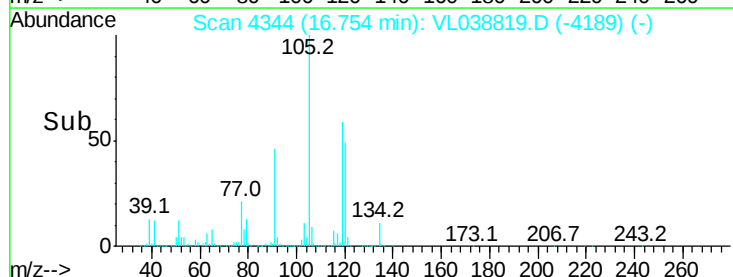
500000

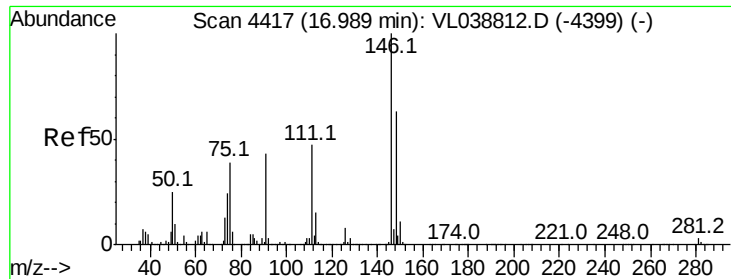
0

16.70

16.80

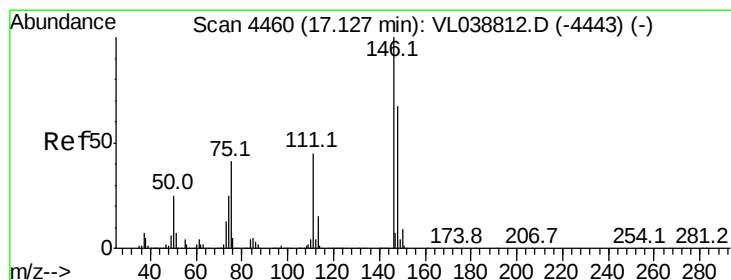
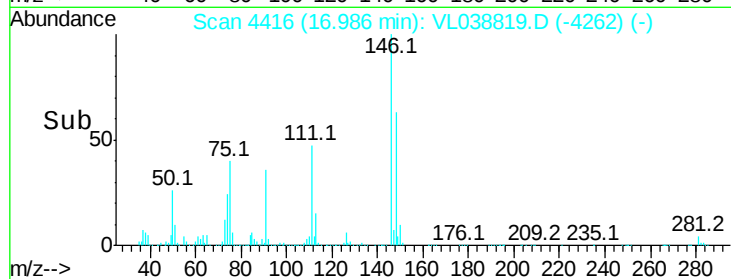
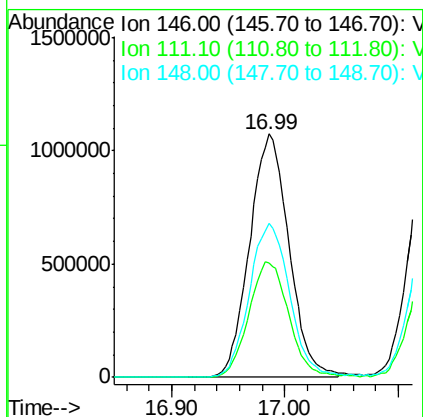
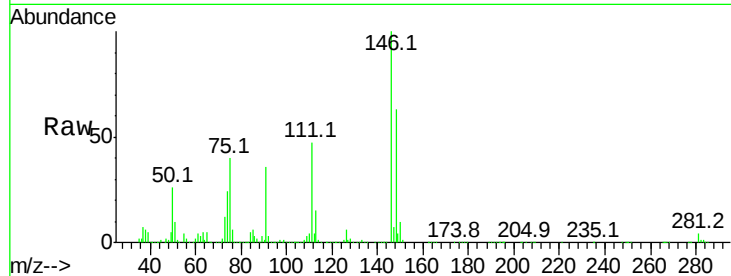
Time-->





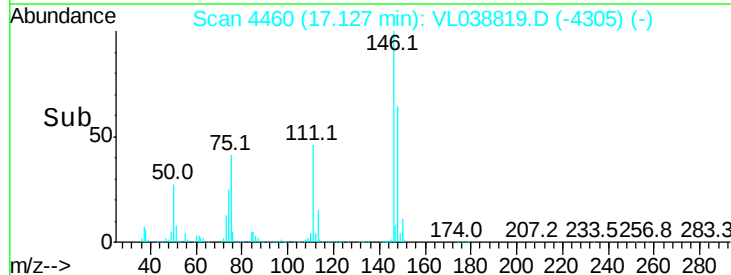
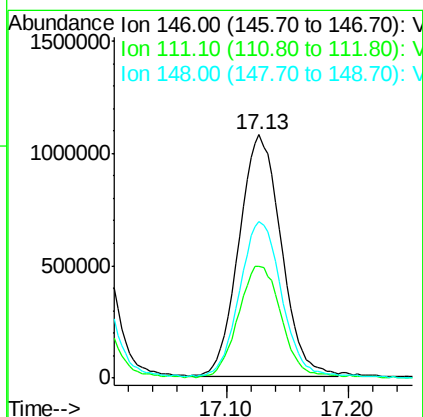
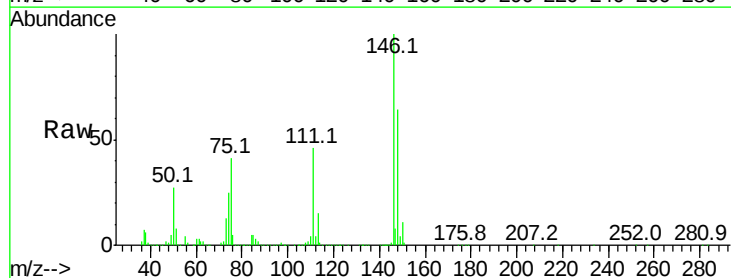
#75  
 1,3-Dichlorobenzene  
 Concen: 7.48 ppbv  
 RT: 16.99  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20:22

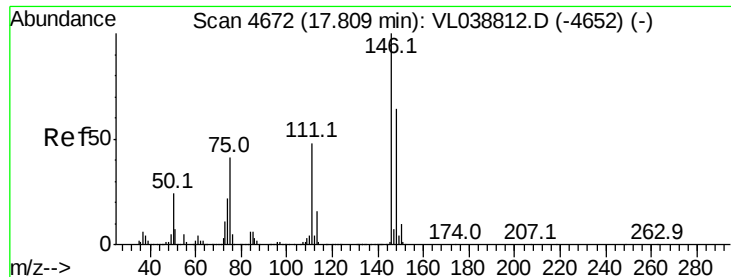
Tgt Ion:146 Resp: 2601039  
 Ion Ratio Lower Upper  
 146 100  
 111 48.4 23.8 71.2  
 148 64.8 31.8 95.4



#76  
 1,4-Dichlorobenzene  
 Concen: 7.48 ppbv  
 RT: 17.13 min Scan# 4460  
 Delta R.T. -0.00 min  
 Lab File: VL038819.D  
 Acq: 5 Apr 2022 20:22

Tgt Ion:146 Resp: 2562668  
 Ion Ratio Lower Upper  
 146 100  
 111 48.4 23.6 70.8  
 148 66.2 33.6 100.6





#77

1,2-Dichlorobenzene

Concen: 7.55 ppbv

RT: 17.81

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

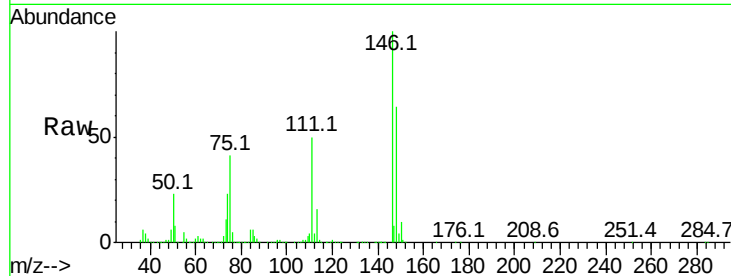
Tgt Ion:146 Resp: 2586972

Ion Ratio Lower Upper

146 100

111 49.3 24.8 74.3

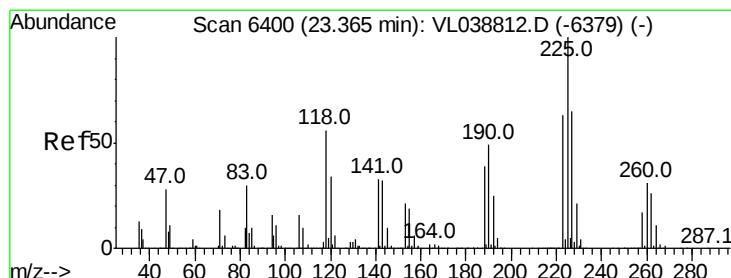
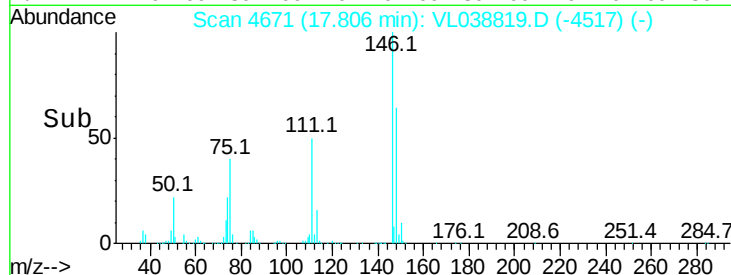
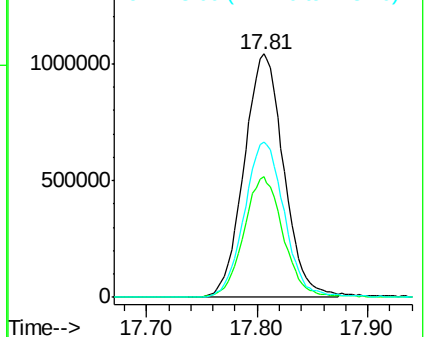
148 64.7 31.9 95.7



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: 6.58 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

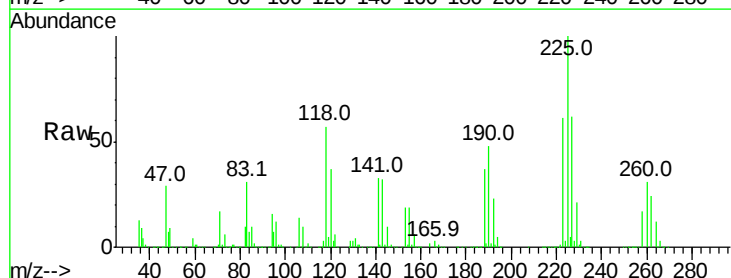
Tgt Ion:225 Resp: 1781095

Ion Ratio Lower Upper

225 100

223 63.4 51.6 77.4

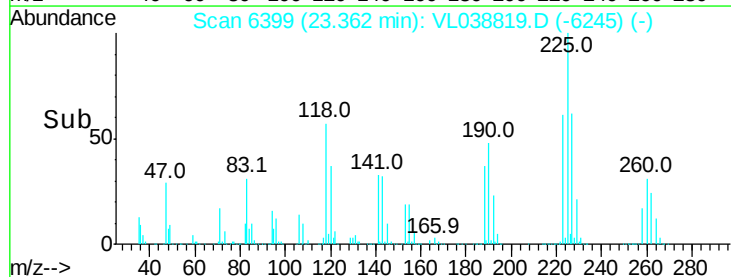
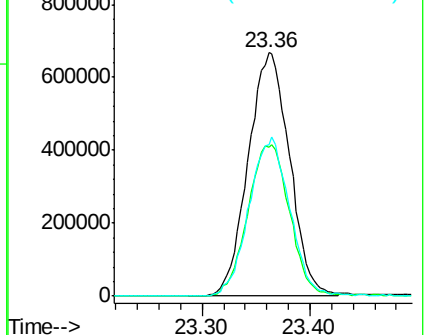
227 64.7 52.3 78.5

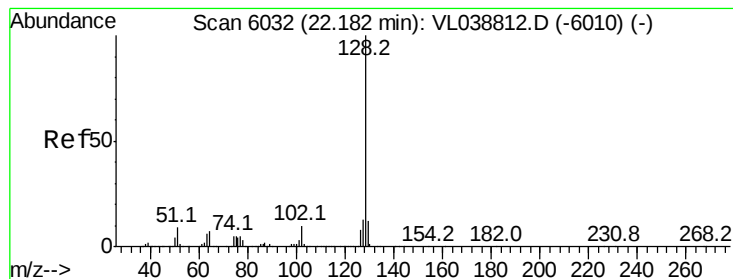


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.19 ppbv

RT: 22.18

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 Apr 2022 20:22

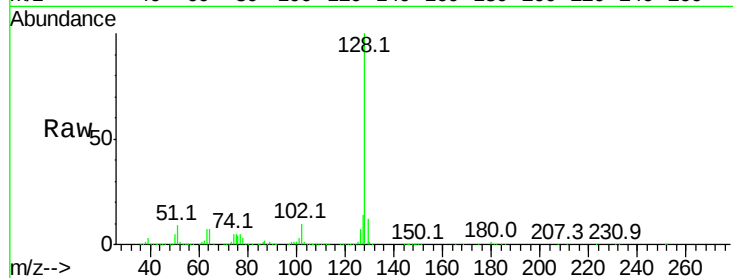
Tgt Ion:128 Resp: 3669892

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

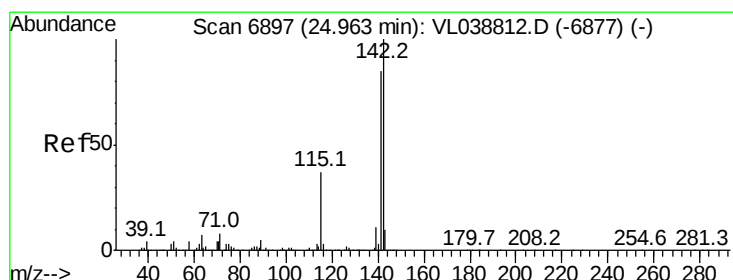
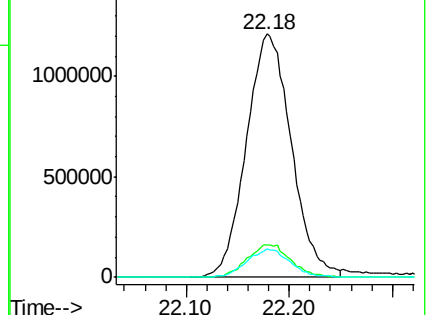
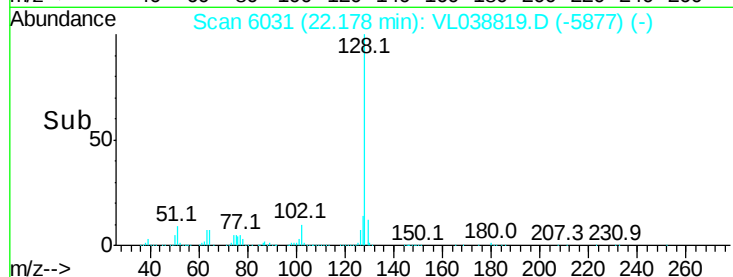
129 11.8 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.95 ppbv

RT: 24.96 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL038819.D

Acq: 5 Apr 2022 20:22

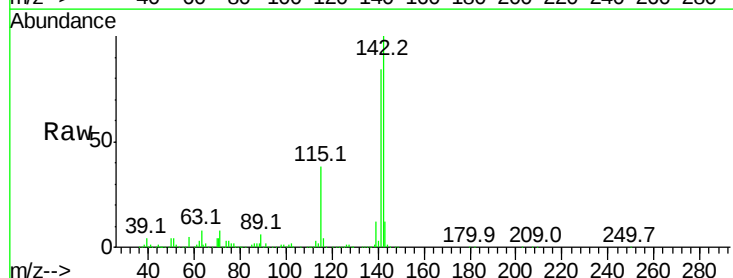
Tgt Ion:142 Resp: 987990

Ion Ratio Lower Upper

142 100

141 81.6 68.8 103.2

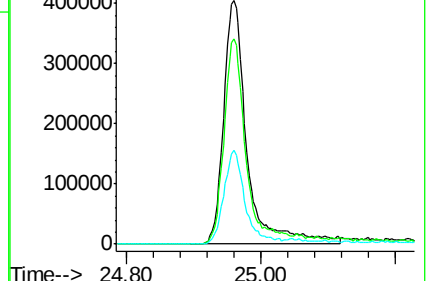
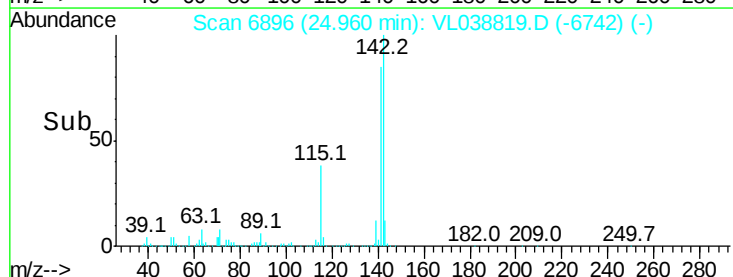
115 34.9 31.6 47.4

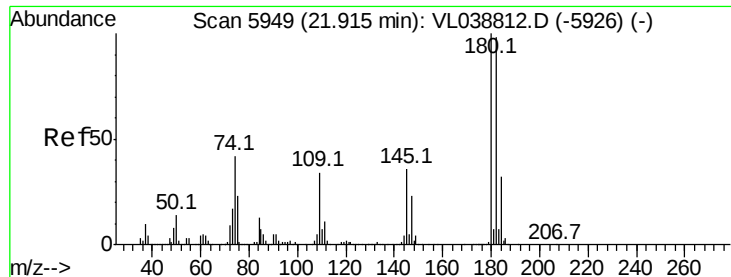


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

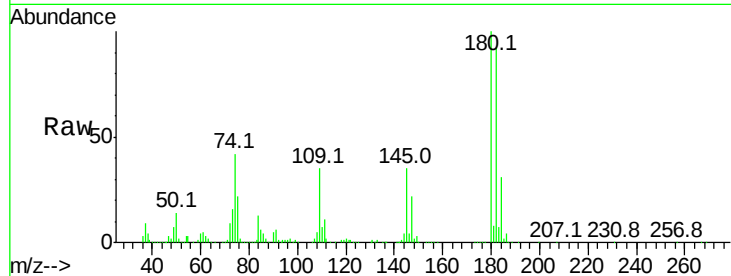
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.61 ppbv  
 RT: 21.91  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 Apr 2022 20.22

Tgt Ion:180 Resp: 1995231  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 79.4 119.0  
 184 31.6 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

