

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071922\  
 Data File : VL039480.D  
 Acq On : 19 Jul 2022 12:51  
 Operator : SY/AP  
 Sample : VISTCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Jul 20 05:37:19 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 06 02:15:38 2022  
 QLast Update : Wed Jul 06 02:15:38 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1213829  | 10.00 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 3369384  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3957638  | 10.00 | ppbv  | 0.03     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2474862  | 8.43     | ppbv | 0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 84.30% |

## Target Compounds

|                                |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1252537 | 7.154  | ppbv 98   |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1438350 | 9.340  | ppbv 99   |
| 4) Chloromethane               | 3.15 | 50  | 797865  | 9.473  | ppbv 99   |
| 5) Vinyl Chloride              | 3.27 | 62  | 755007  | 9.091  | ppbv 95   |
| 6) Bromomethane                | 3.48 | 94  | 334236  | 9.562  | ppbv 98   |
| 7) Chloroethane                | 3.56 | 64  | 286218  | 9.689  | ppbv 94   |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1711283 | 8.948  | ppbv 98   |
| 9) Propene                     | 3.02 | 41  | 626959  | 9.015  | ppbv 98   |
| 10) Heptane                    | 8.14 | 43  | 1627242 | 9.990  | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1857952 | 9.523  | ppbv 97   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1399326 | 9.621  | ppbv 99   |
| 13) Ethanol                    | 3.61 | 45  | 46002   | 11.401 | ppbv 82   |
| 14) Bromoethene                | 3.75 | 108 | 587312  | 9.605  | ppbv 98   |
| 15) Acetone                    | 3.85 | 43  | 1387612 | 9.663  | ppbv 98   |
| 16) 1,3-Butadiene              | 3.33 | 39  | 753440  | 10.112 | ppbv 98   |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1373426 | 11.268 | ppbv 99   |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 621767  | 9.436  | ppbv 97   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 748447  | 9.771  | ppbv # 96 |
| 20) Methylene Chloride         | 4.35 | 84  | 516199  | 9.018  | ppbv # 95 |
| 21) Allyl Chloride             | 4.42 | 41  | 968818  | 9.741  | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 643745  | 10.093 | ppbv 97   |
| 23) Vinyl Acetate              | 5.08 | 43  | 1098851 | 11.450 | ppbv 99   |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1306564 | 9.640  | ppbv 99   |
| 25) Ethyl Acetate              | 5.69 | 43  | 2928000 | 9.944  | ppbv 100  |
| 26) Hexane                     | 5.70 | 57  | 1222906 | 10.303 | ppbv 96   |
| 27) Carbon Disulfide           | 4.56 | 76  | 1551954 | 10.833 | ppbv 98   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1214362 | 9.569  | ppbv 98   |
| 29) Chloroform                 | 5.76 | 83  | 1981753 | 9.602  | ppbv 98   |
| 30) Cyclohexane                | 7.14 | 84  | 1108467 | 10.258 | ppbv 96   |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1260882 | 10.012 | ppbv 99   |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2112510 | 10.370 | ppbv 98   |
| 34) 2-Butanone                 | 5.25 | 43  | 1758324 | 10.367 | ppbv 100  |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 2231180 | 10.717 | ppbv 96   |
| 36) Benzene                    | 6.91 | 78  | 2642006 | 10.131 | ppbv 96   |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 1550144 | 10.071 | ppbv 100  |
| 38) Trichloroethene            | 7.85 | 130 | 1436933 | 10.188 | ppbv 98   |
| 39) 1,2-Dichloropropane        | 7.63 | 63  | 970773  | 9.965  | ppbv 94   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 384222  | 9.897  | ppbv # 1  |
| 41) Tetrahydrofuran            | 6.06 | 42  | 1000205 | 10.176 | ppbv 98   |
| 42) Bromodichloromethane       | 7.80 | 83  | 2205979 | 10.629 | ppbv 95   |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1079547 | 10.887 | ppbv 100  |

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 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

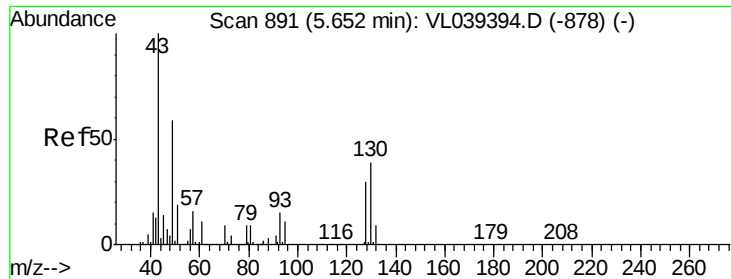
Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Jul 20 05:37:19 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 06 02:15:38 2022  
 QLast Update : Wed Jul 06 02:15:38 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 4387391  | 9.928  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 757307   | 8.578  | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1056485  | 8.694  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1025946  | 9.386  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.32 | 129  | 1918622  | 11.043 | ppbv   | 100      |
| 49) Bromoform                 | 13.06 | 173  | 1625888  | 11.600 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2348863  | 9.159  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.14 | 43   | 2155438  | 11.111 | ppbv   | 100      |
| 52) Tetrachloroethene         | 11.23 | 164  | 1025622  | 9.770  | ppbv   | 96       |
| 53) Toluene                   | 9.82  | 91   | 3148932  | 10.469 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1446453  | 10.635 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 1438742  | 8.229  | ppbv   | 95       |
| 57) Chlorobenzene             | 12.16 | 112  | 2425370  | 7.905  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.72 | 91   | 4213361  | 8.245  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.01 | 91   | 4108038  | 9.118  | ppbv # | 46       |
| 60) o-Xylene                  | 13.70 | 91   | 3510175  | 8.228  | ppbv   | 100      |
| 61) Styrene                   | 13.54 | 104  | 2094197  | 9.062  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.68 | 105  | 5171737  | 7.960  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 1673647  | 7.484  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.58 | 120  | 1371246  | 8.327  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 4832317  | 8.049  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 546564   | 9.581  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 6551703  | 8.102  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 5687768  | 8.290  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.56 | 91   | 5509579  | 8.273  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 3818672  | 8.213  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 4289743  | 8.552  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 3910967  | 8.490  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4198430  | 8.238  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2517939  | 8.283  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2408020  | 7.992  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2429253  | 8.062  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1818269  | 7.503  | ppbv   | 99       |
| 79) Naphthalene               | 22.20 | 128  | 3476244  | 9.912  | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 1342409  | 11.246 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 2020970  | 8.847  | ppbv   | 99       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

Acq: 19 Jul 2022 12:51

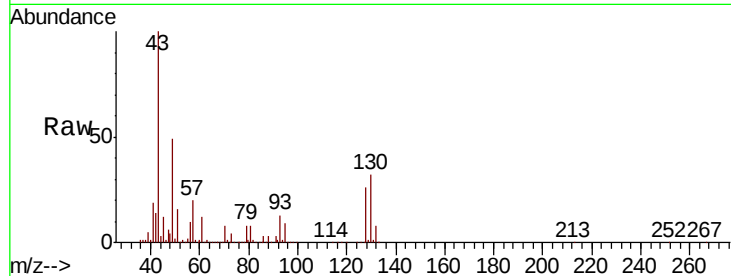
Tot Ion: 49 Resp: 1213829

Ion Ratio Lower Upper

49 100

128 53.5 26.7 80.0

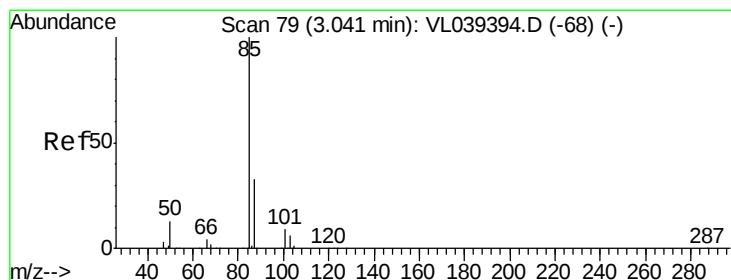
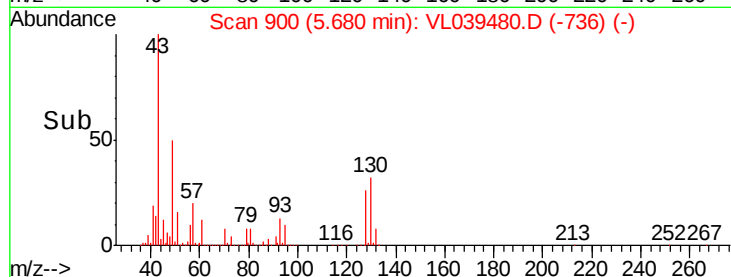
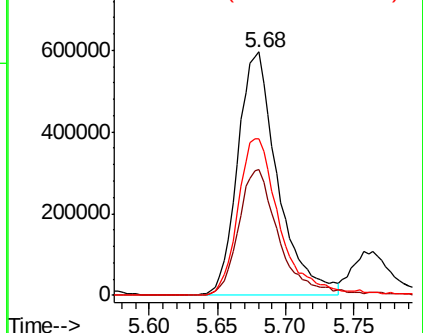
130 68.0 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.154 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039480.D

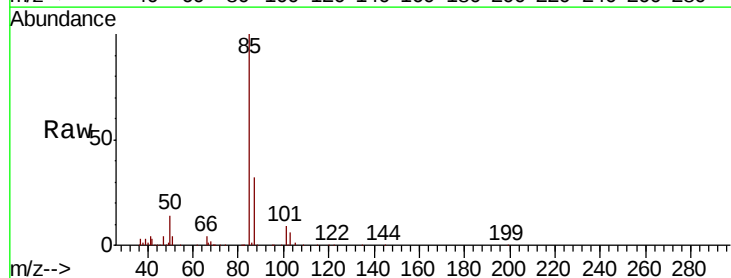
Acq: 19 Jul 2022 12:51

Tgt Ion: 85 Resp: 1252537

Ion Ratio Lower Upper

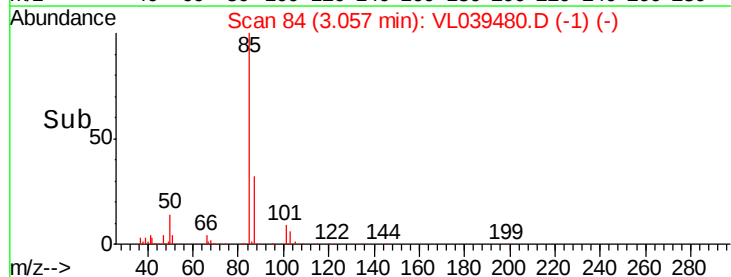
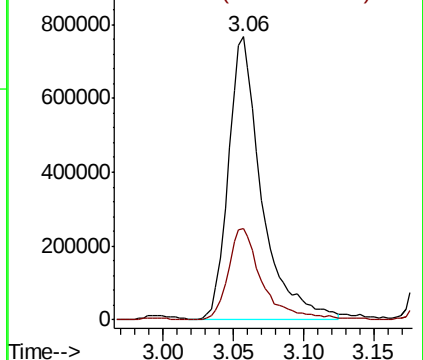
85 100

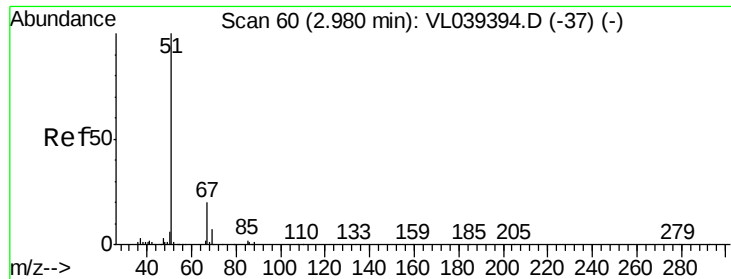
87 32.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

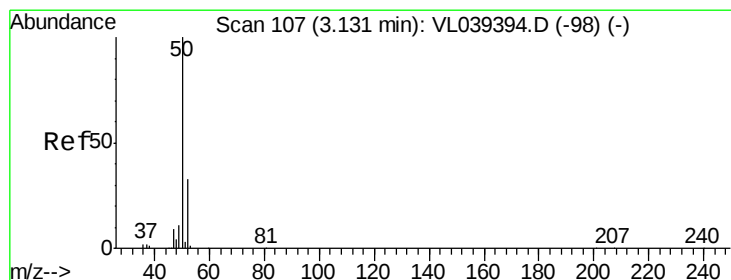
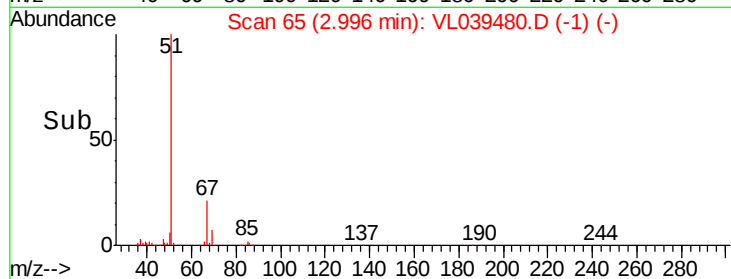
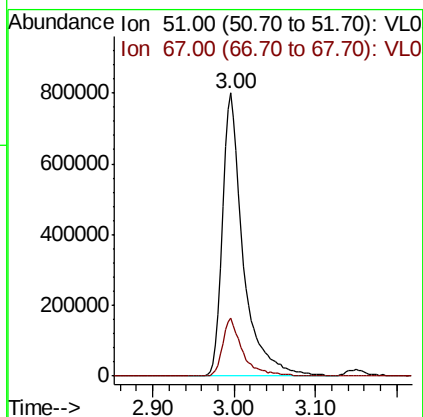
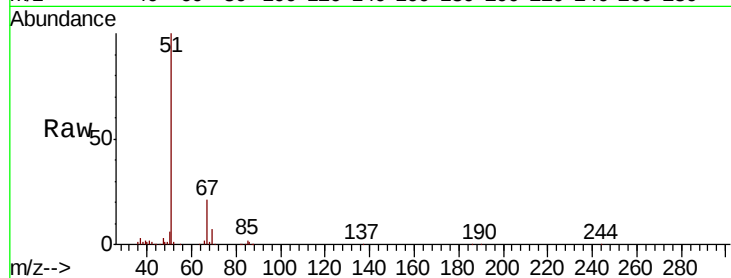
Ion 87.00 (86.70 to 87.70): VL0





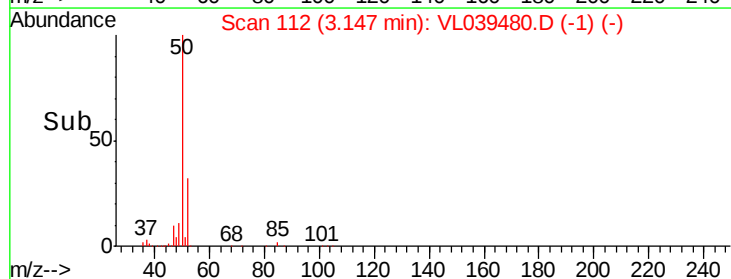
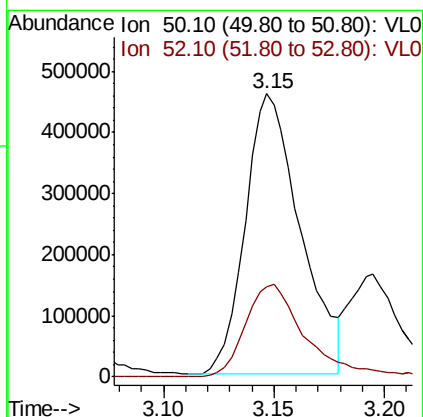
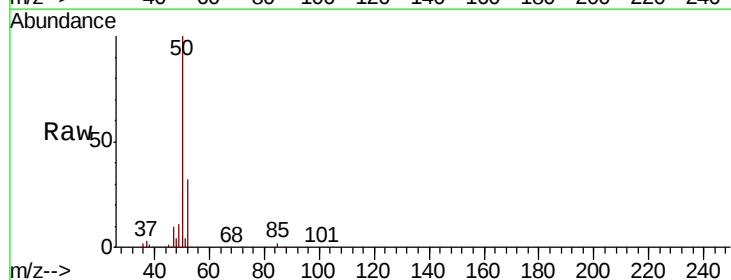
#3  
 Chlorodifluoromethane  
 Concen: 9.340 ppbv  
 RT: 3.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

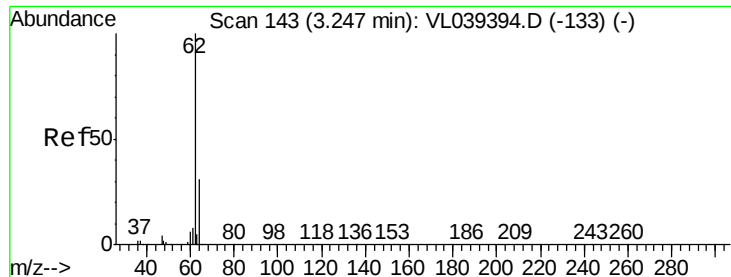
Tot Ion: 51 Resp: 1438350  
 Ion Ratio Lower Upper  
 51 100  
 67 20.1 15.7 23.5



#4  
 Chloromethane  
 Concen: 9.473 ppbv  
 RT: 3.15 min Scan# 112  
 Delta R.T. 0.02 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 50 Resp: 797865  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 26.5 39.7





#5

Vinyl Chloride

Concen: 9.091 ppbv

RT: 3.27 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

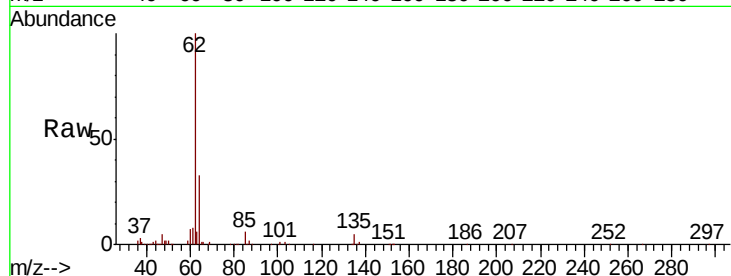
Acq: 19 Jul 2022 12:51

Tot Ion: 62 Resp: 755007

Ion Ratio Lower Upper

62 100

64 33.2 24.6 36.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.27

400000

300000

200000

100000

0

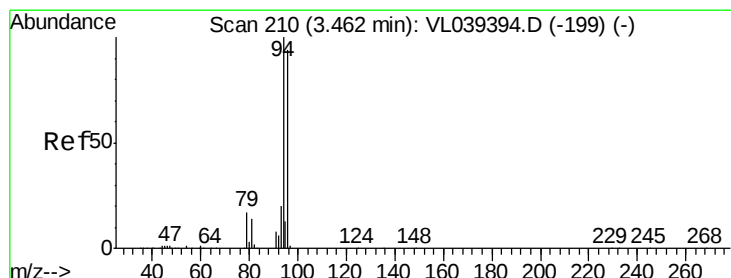
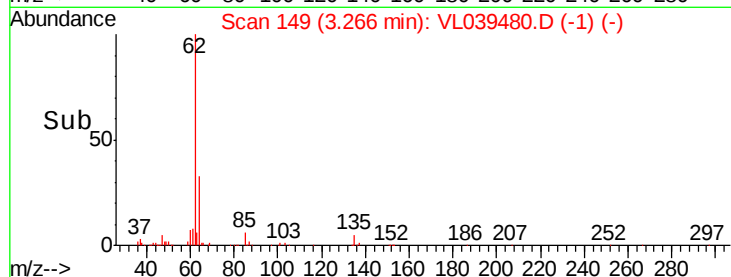
Time-->

3.20

3.25

3.30

3.35



#6

Bromomethane

Concen: 9.562 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.02 min

Lab File: VL039480.D

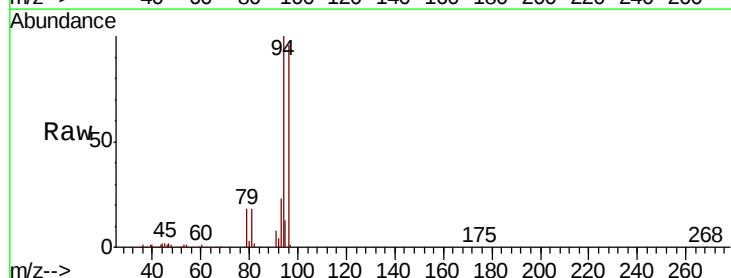
Acq: 19 Jul 2022 12:51

Tgt Ion: 94 Resp: 334236

Ion Ratio Lower Upper

94 100

96 96.1 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.48

200000

150000

100000

50000

0

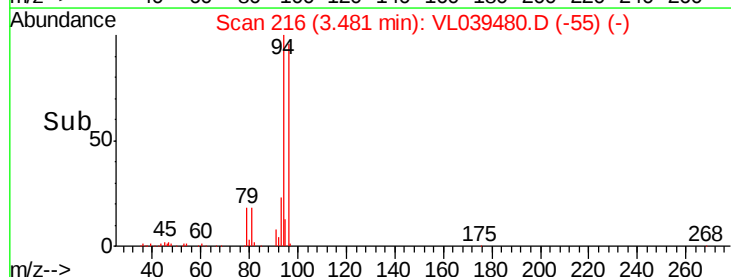
Time-->

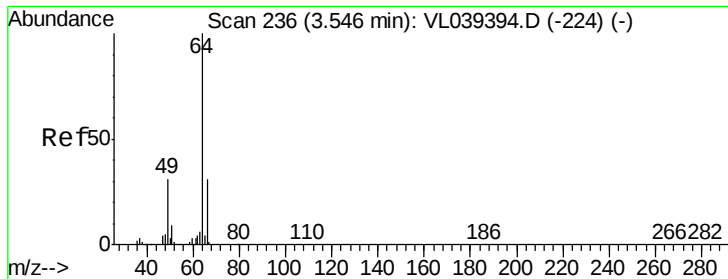
3.40

3.45

3.50

3.55





#7

Chloroethane

Concen: 9.689 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

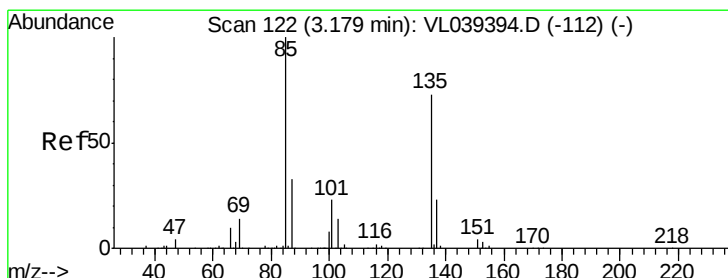
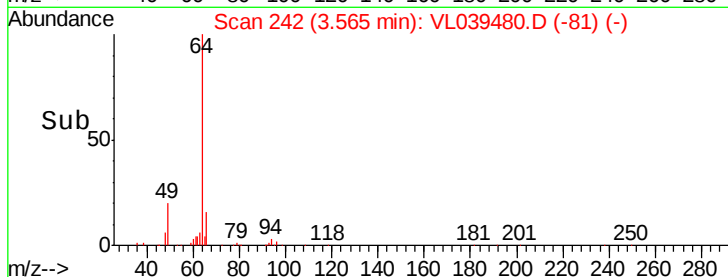
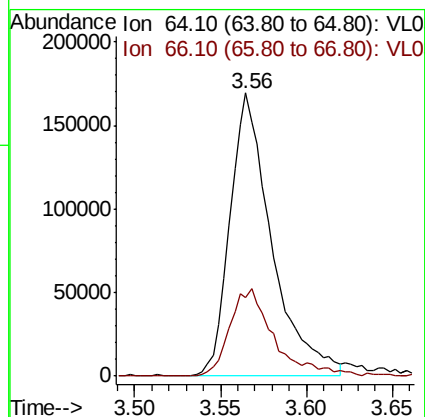
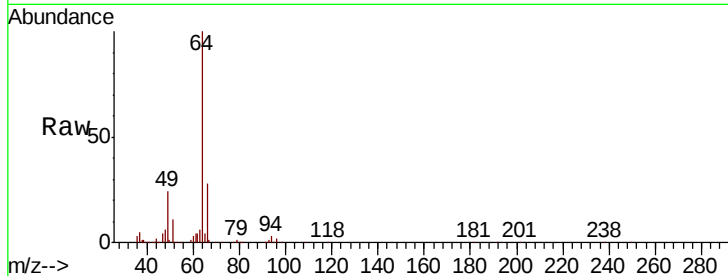
Acq: 19 Jul 2022 12:51 VSTDCCC010

Tot Ion: 64 Resp: 286218

Ion Ratio Lower Upper

64 100

66 27.9 24.7 37.1



#8

Dichlorotetrafluoroethane

Concen: 8.948 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.02 min

Lab File: VL039480.D

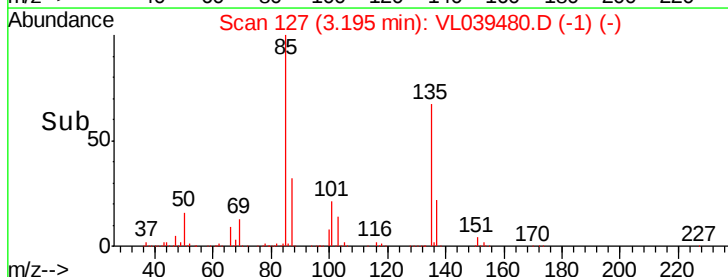
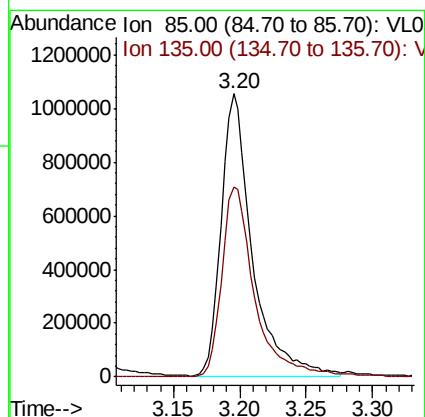
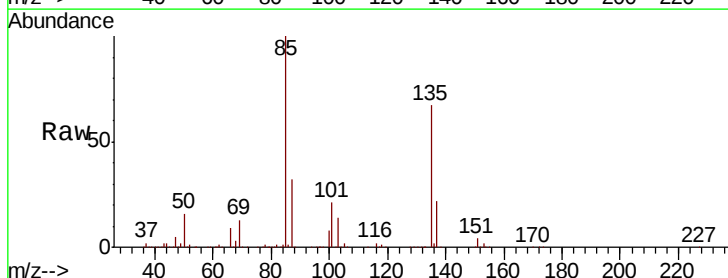
Acq: 19 Jul 2022 12:51

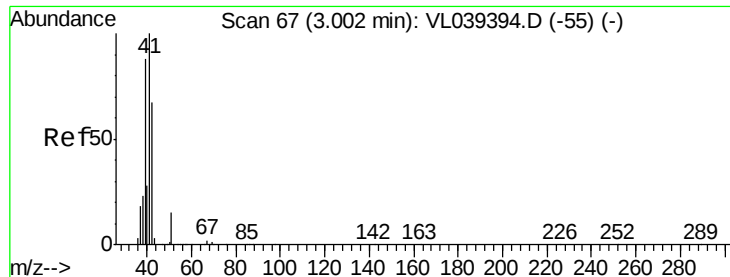
Tgt Ion: 85 Resp: 1711283

Ion Ratio Lower Upper

85 100

135 72.4 59.0 88.4





#9

Propene

Concen: 9.015 ppbv

RT: 3.02 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

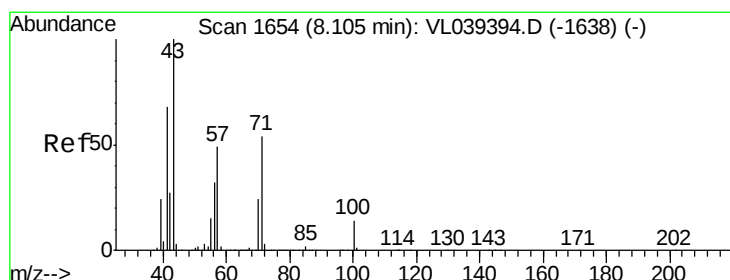
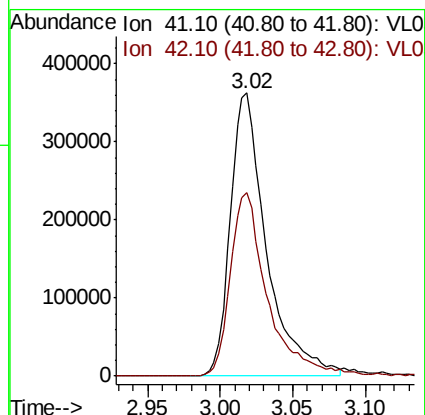
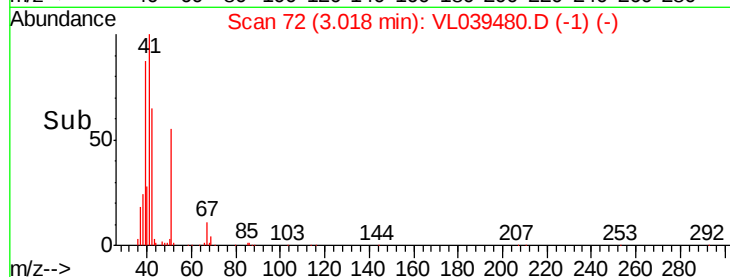
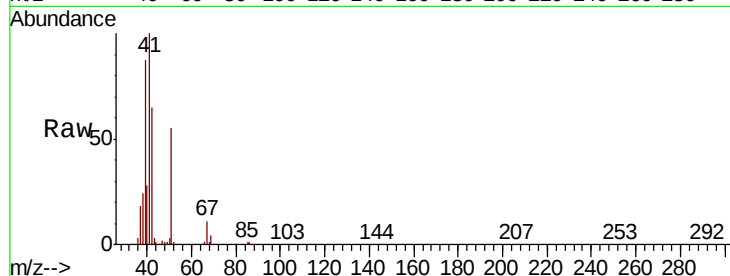
Acq: 19 Jul 2022 12:51

Tot Ion: 41 Resp: 626959

Ion Ratio Lower Upper

41 100

42 67.2 55.2 82.8



#10

Heptane

Concen: 9.990 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.03 min

Lab File: VL039480.D

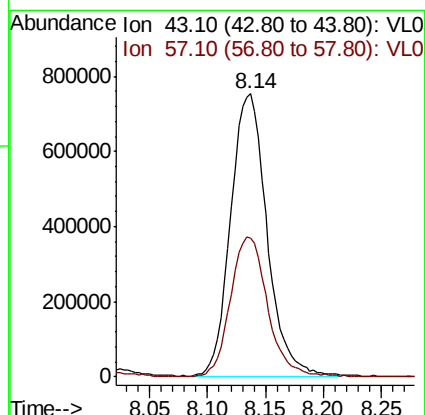
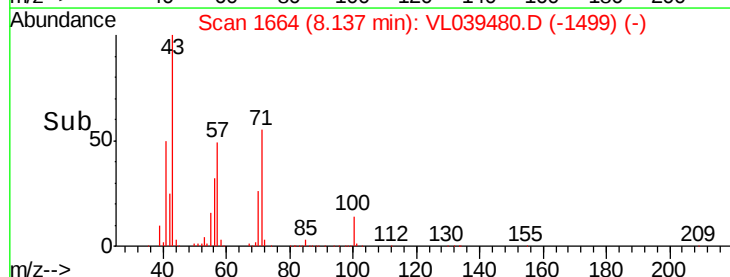
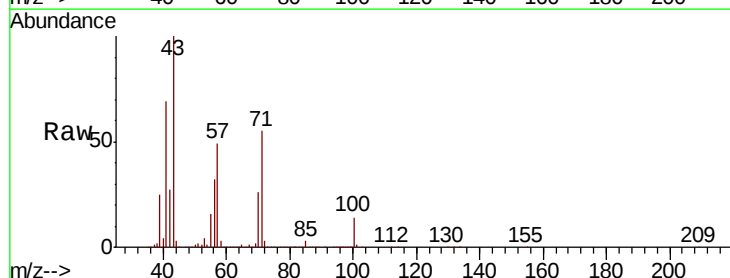
Acq: 19 Jul 2022 12:51

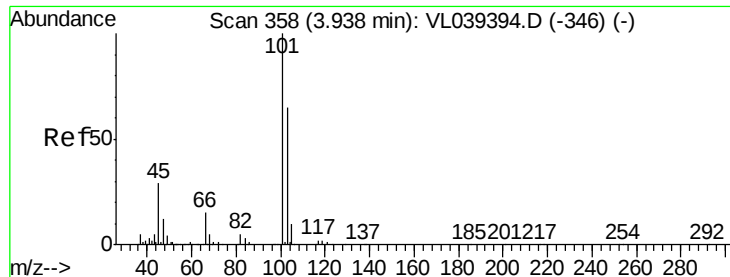
Tgt Ion: 43 Resp: 1627242

Ion Ratio Lower Upper

43 100

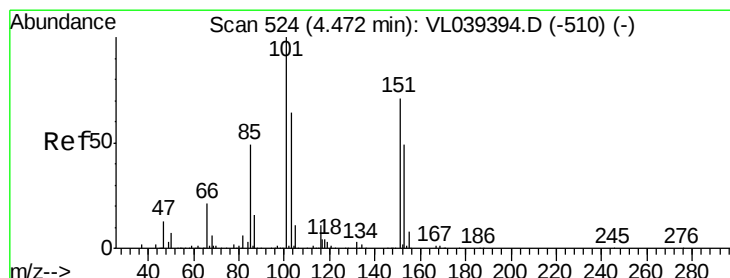
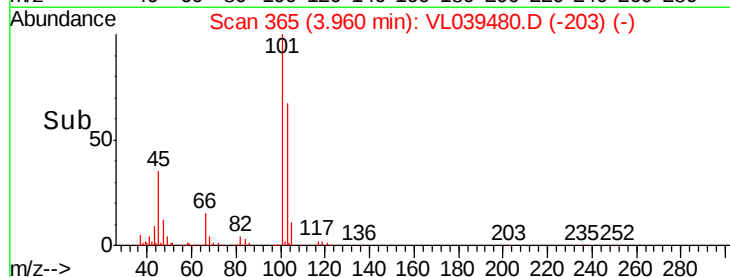
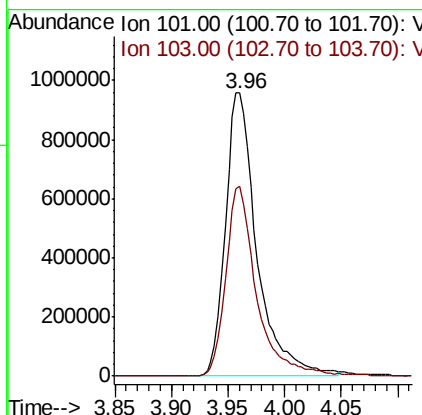
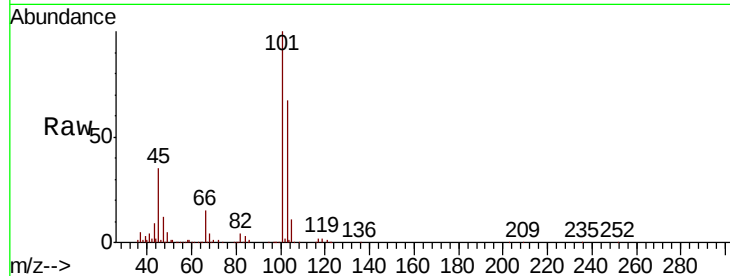
57 51.1 40.5 60.7





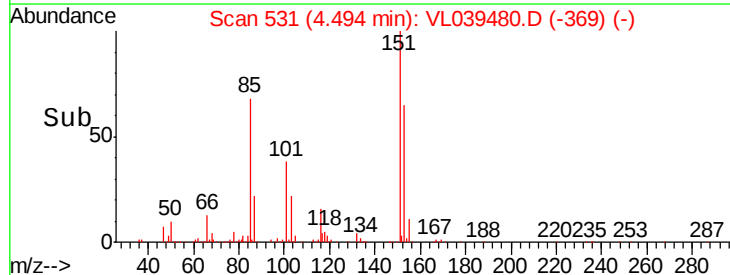
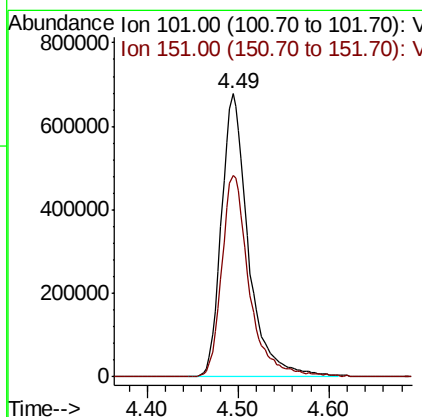
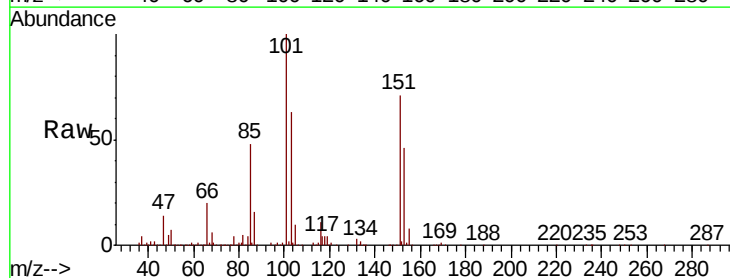
#11  
 Trichlorofluoromethane  
 Concen: 9.523 ppbv  
 RT: 3.96  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

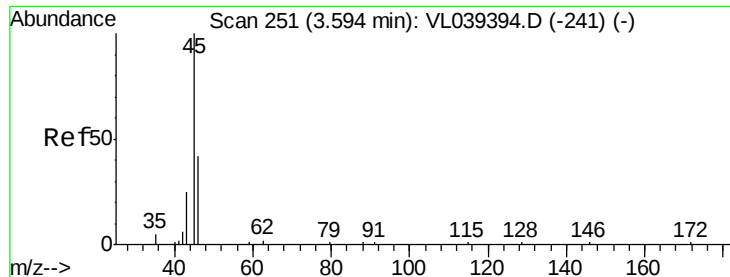
Tot Ion:101 Resp: 1857952  
 Ion Ratio Lower Upper  
 101 100  
 103 66.9 51.8 77.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.621 ppbv  
 RT: 4.49 min Scan# 531  
 Delta R.T. 0.02 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

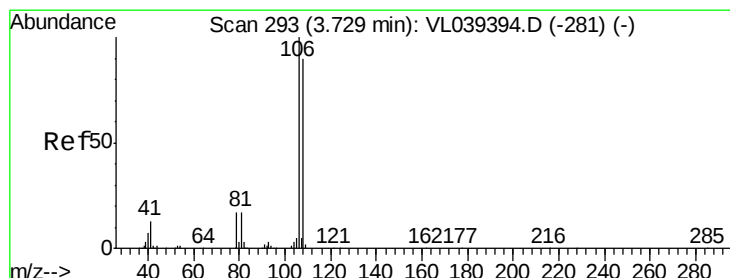
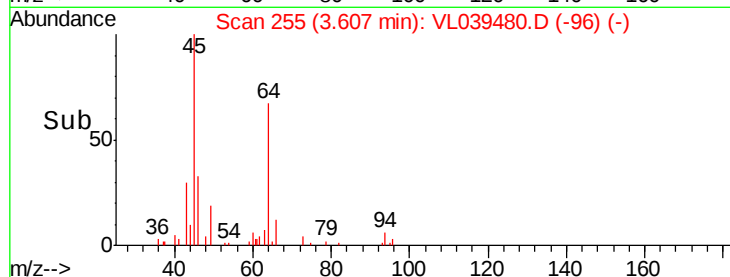
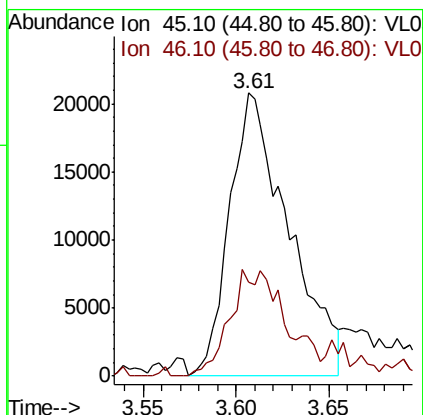
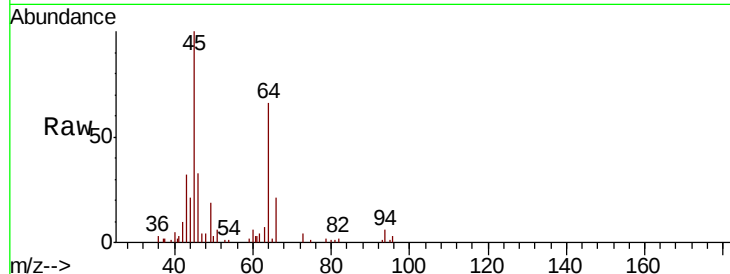
Tgt Ion:101 Resp: 1399326  
 Ion Ratio Lower Upper  
 101 100  
 151 72.9 58.9 88.3





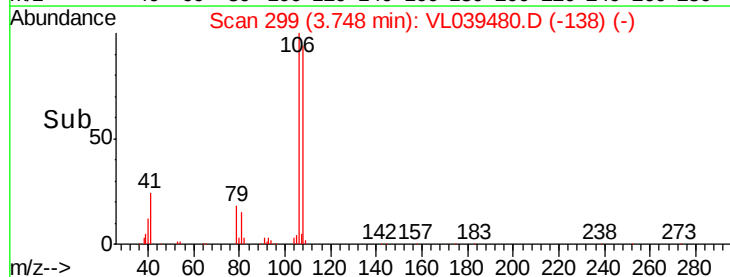
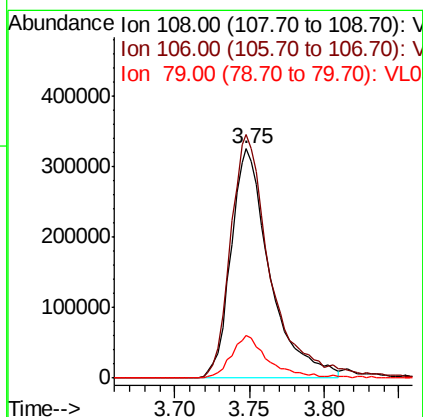
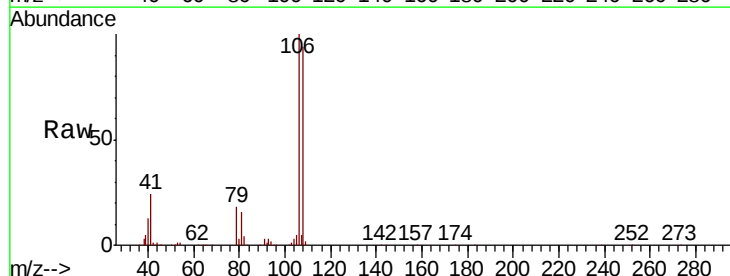
#13  
 Ethanol  
 Concen: 11.401 ppbv  
 RT: 3.61  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Jul 2022 12:51

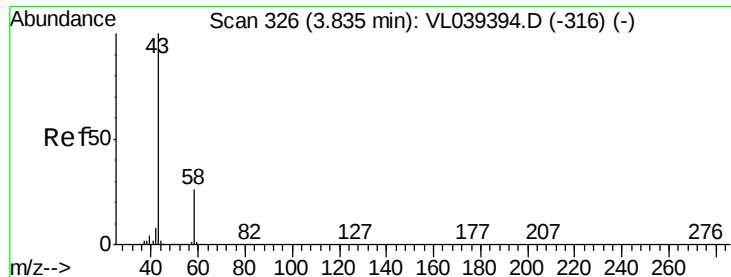
Tot Ion: 45 Resp: 46002  
 Ion Ratio Lower Upper  
 45 100  
 46 43.5 22.8 91.2



#14  
 Bromoethene  
 Concen: 9.605 ppbv  
 RT: 3.75 min Scan# 299  
 Delta R.T. 0.02 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 108 Resp: 587312  
 Ion Ratio Lower Upper  
 108 100  
 106 111.1 87.1 130.7  
 79 18.4 14.6 22.0





#15

Acetone

Concen: 9.663 ppbv

RT: 3.85 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

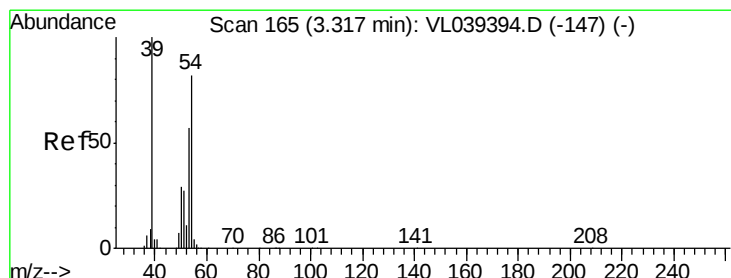
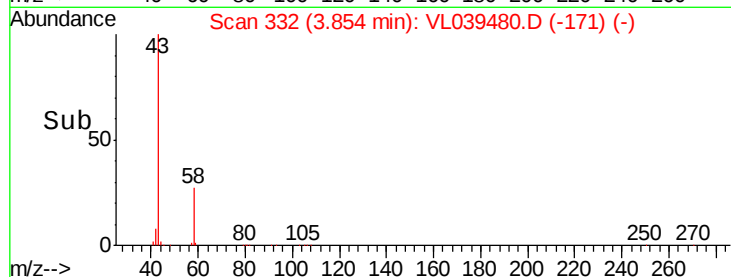
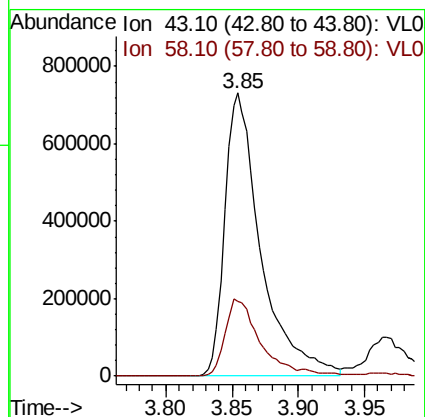
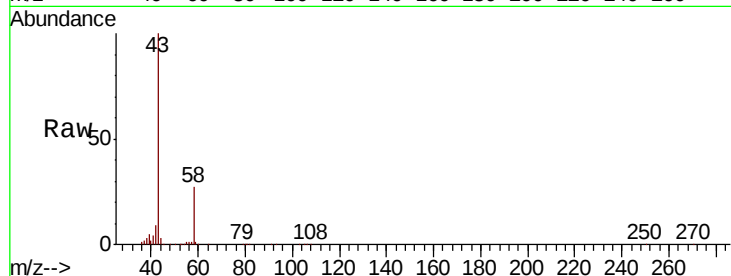
Acq: 19 Jul 2022 12:51

Tot Ion: 43 Resp: 1387612

Ion Ratio Lower Upper

43 100

58 27.1 21.0 31.6



#16

1,3-Butadiene

Concen: 10.112 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.02 min

Lab File: VL039480.D

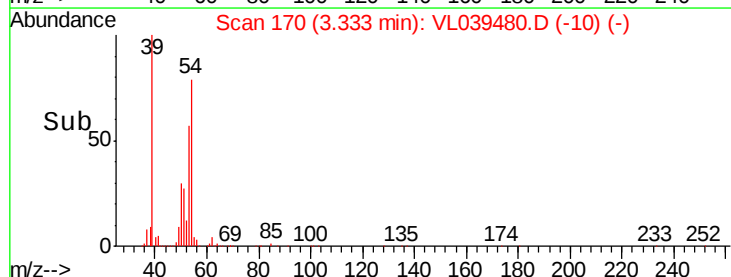
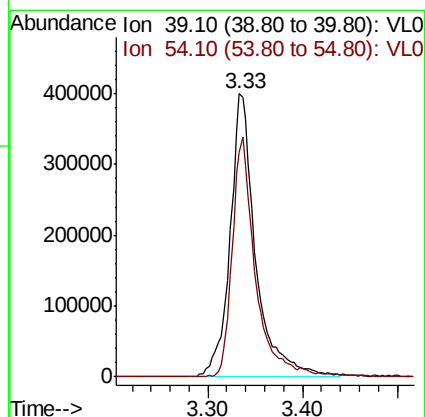
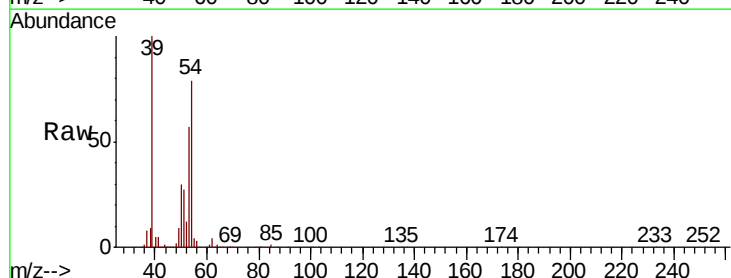
Acq: 19 Jul 2022 12:51

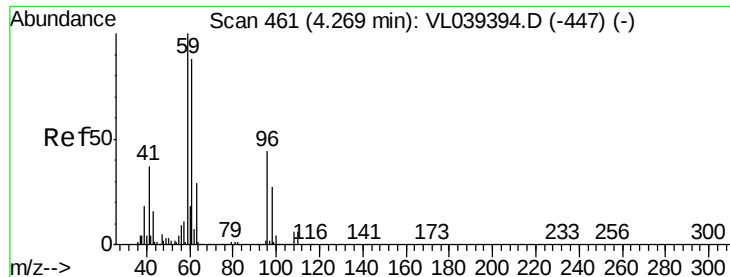
Tgt Ion: 39 Resp: 753440

Ion Ratio Lower Upper

39 100

54 77.5 63.7 95.5





#17

tert-Butyl alcohol

Concen: 11.268 ppbv

RT: 4.29 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

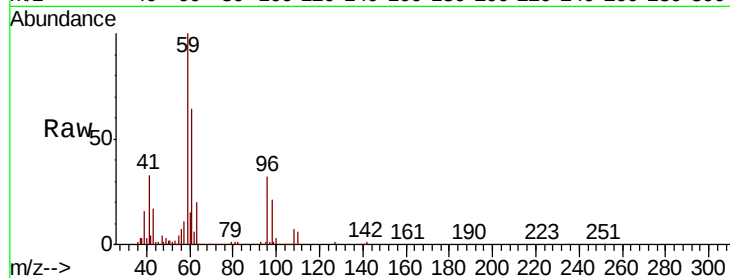
Acq: 19 Jul 2022 12:51

Tot Ion: 59 Resp: 1373426

Ion Ratio Lower Upper

59 100

57 11.3 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

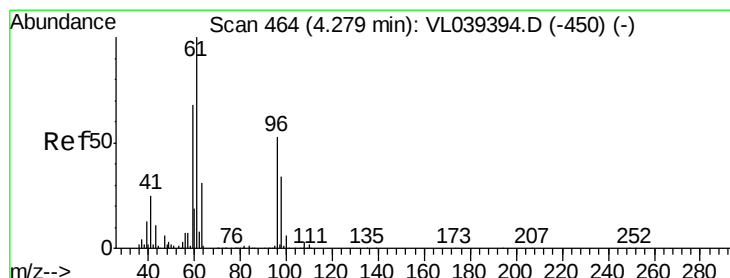
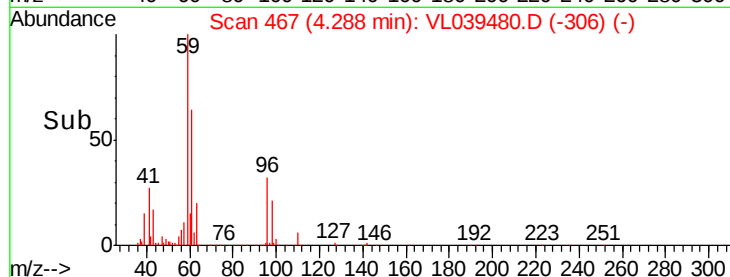
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 9.436 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

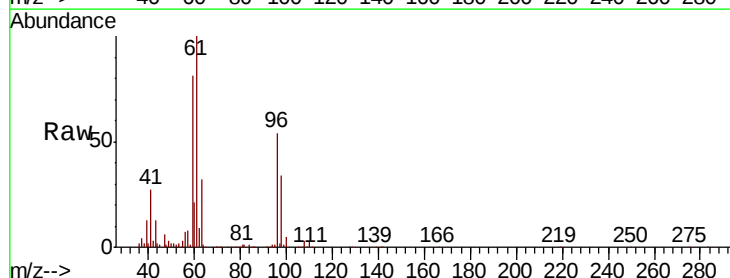
Tgt Ion: 96 Resp: 621767

Ion Ratio Lower Upper

96 100

61 185.4 152.2 228.4

98 62.5 51.8 77.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

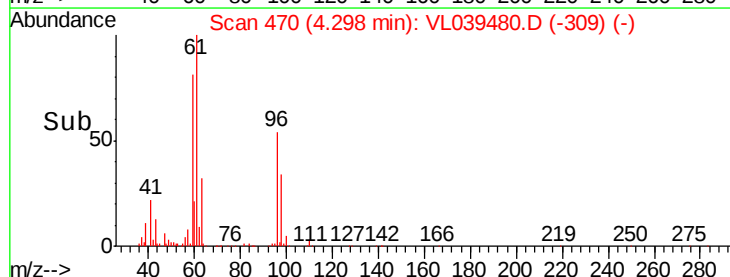
600000

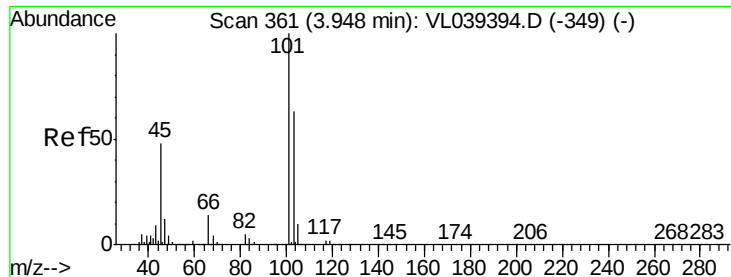
400000

200000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 9.771 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

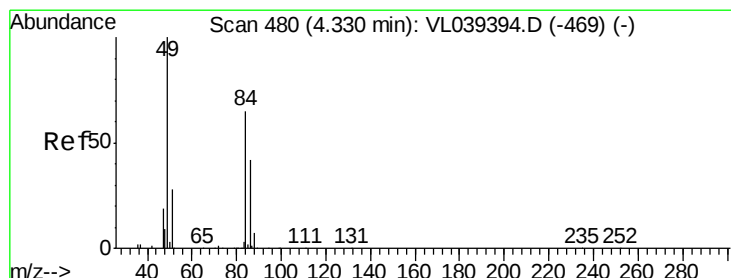
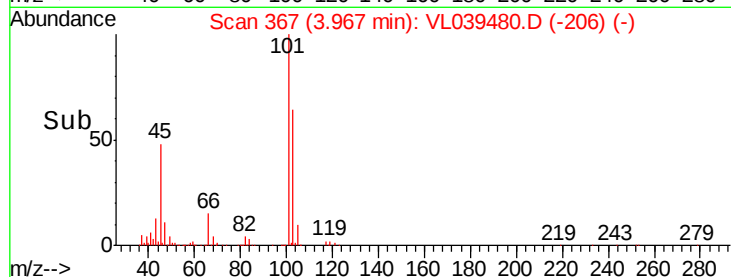
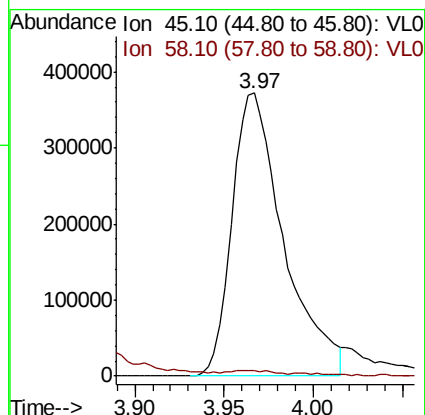
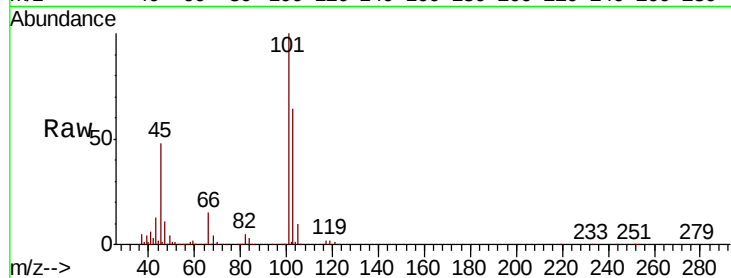
Acq: 19 Jul 2022 12:51 VSTDCCC010

Tot Ion: 45 Resp: 748447

Ion Ratio Lower Upper

45 100

58 2.7 3.2 4.8#



#20

Methylene Chloride

Concen: 9.018 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

Tgt Ion: 84 Resp: 516199

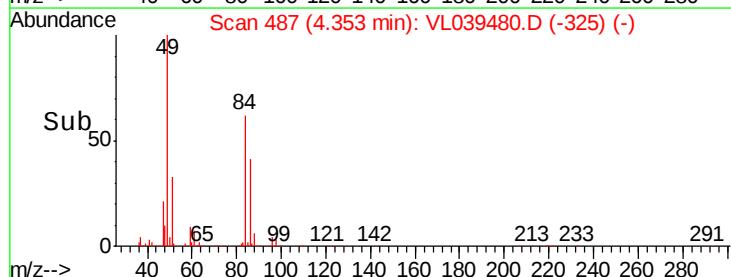
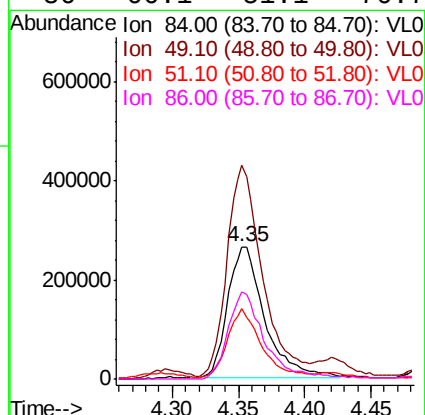
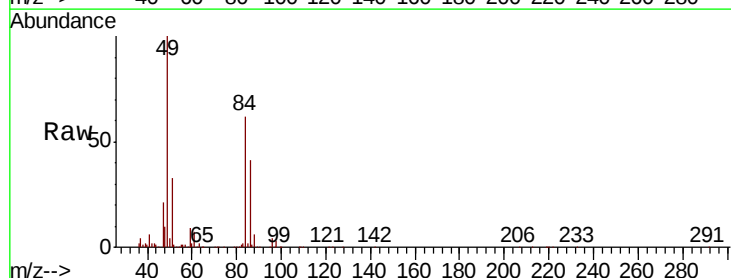
Ion Ratio Lower Upper

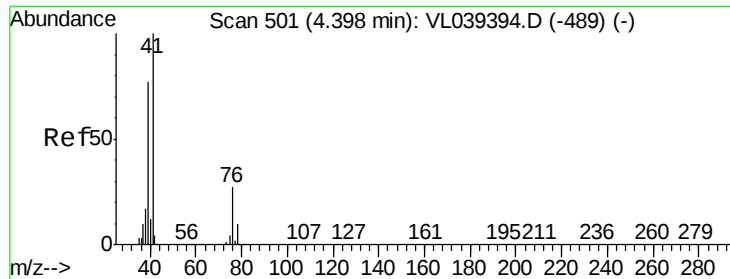
84 100

49 159.1 123.1 184.7

51 51.8 34.4 51.6#

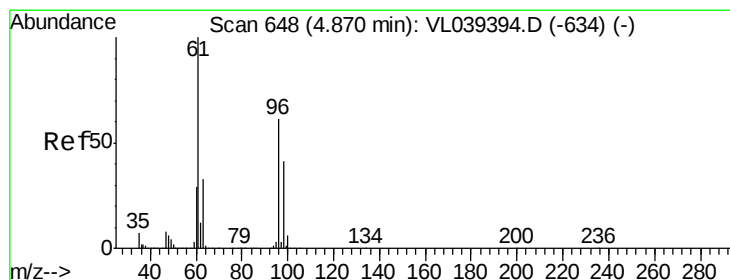
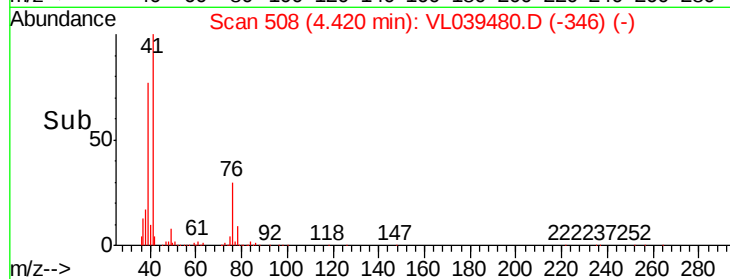
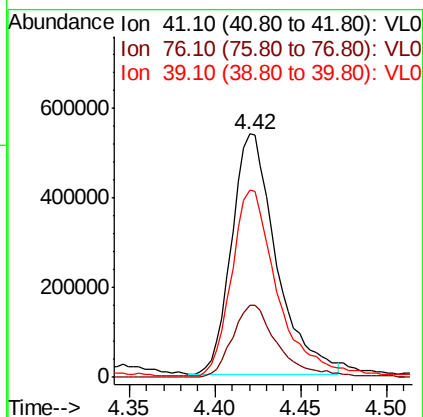
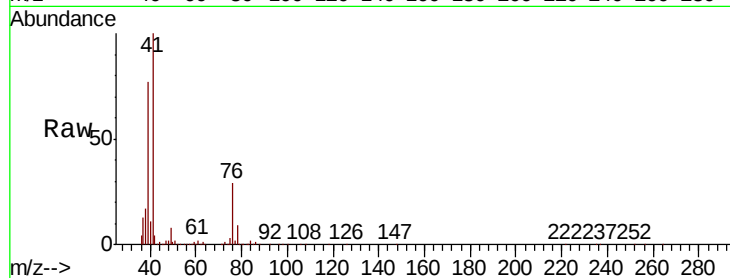
86 66.1 51.1 76.7





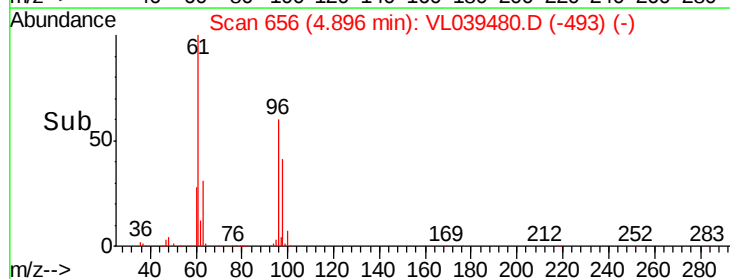
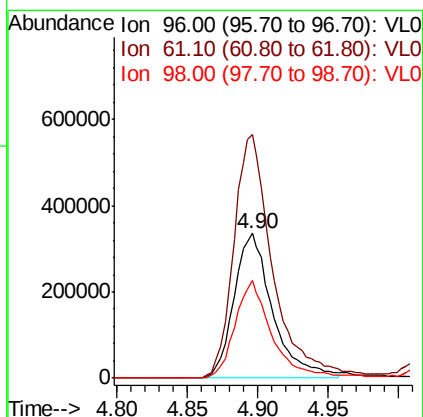
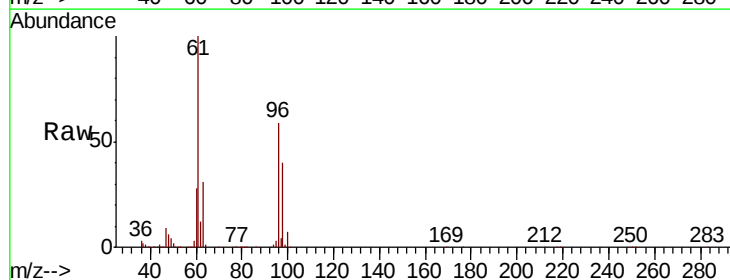
#21  
 Allvl Chloride  
 Concen: 9.741 ppbv  
 RT: 4.42  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

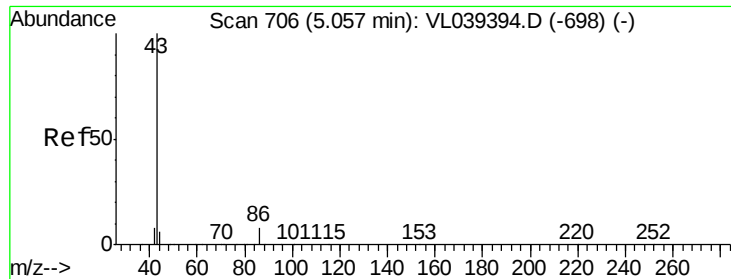
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 31.1  | 24.4  | 36.6  |
| 39      | 80.6  | 63.5  | 95.3  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.093 ppbv  
 RT: 4.90 min Scan# 656  
 Delta R.T. 0.03 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 168.1 | 130.6 | 195.8 |
| 98      | 67.6  | 53.4  | 80.0  |





#23

Vinyl Acetate

Concen: 11.450 ppbv

RT: 5.08 Instrument: MSVOA\_1

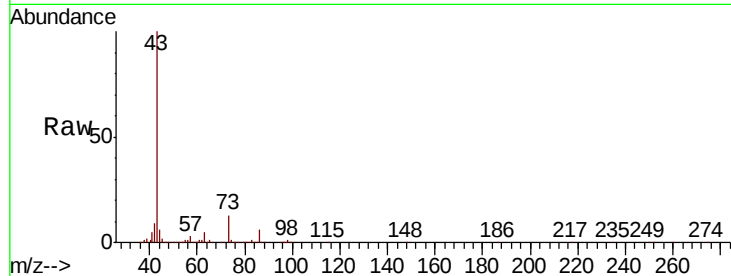
Delta R.T.

Lab File: ClientSampleId:

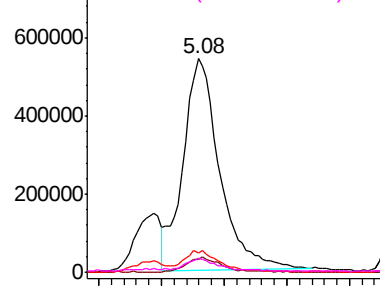
Acq: 19 Jul 2022 12:51 VSTDCCC010

Tot Ion: 43 Resp: 1098851

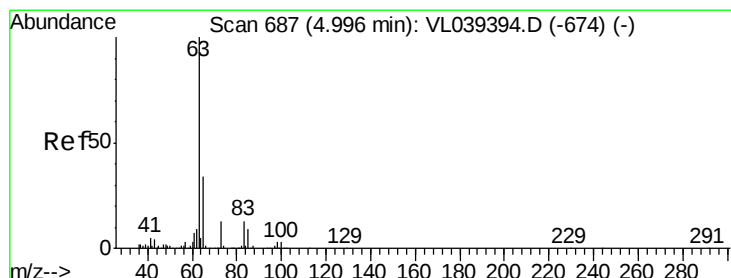
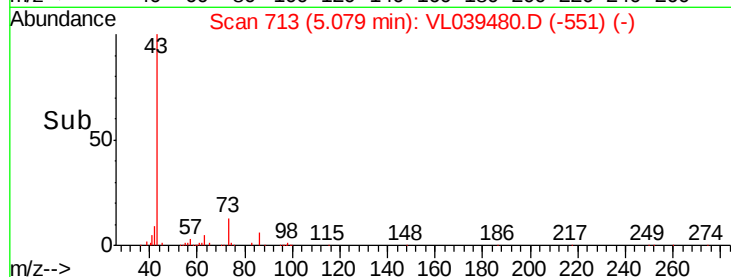
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.1   | 5.0   | 7.6   |
| 42  | 8.6   | 7.7   | 11.5  |
| 44  | 5.8   | 4.6   | 7.0   |



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



Time-->



#24

1,1-Dichloroethane

Concen: 9.640 ppbv

RT: 5.02 min Scan# 695

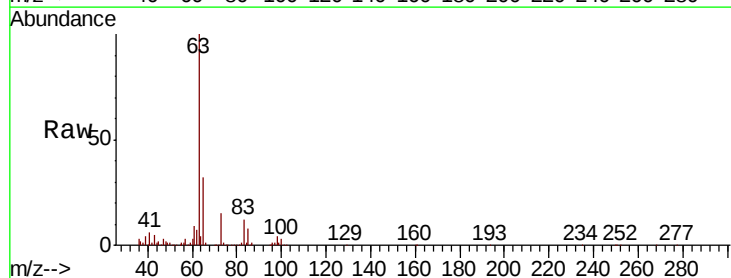
Delta R.T. 0.03 min

Lab File: VL039480.D

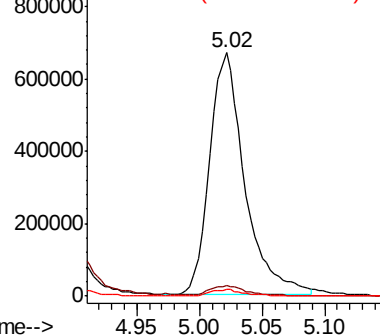
Acq: 19 Jul 2022 12:51

Tgt Ion: 63 Resp: 1306564

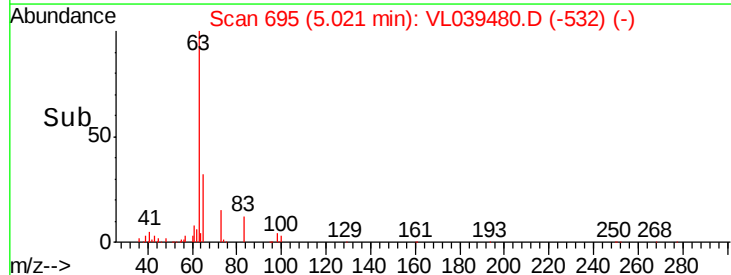
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.9   | 1.8   | 5.3   |
| 100 | 2.5   | 1.5   | 4.4   |

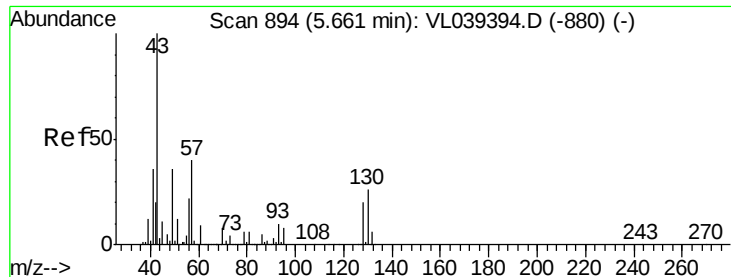


Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0



Time-->

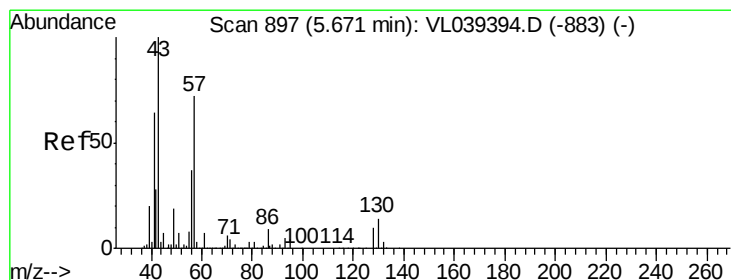
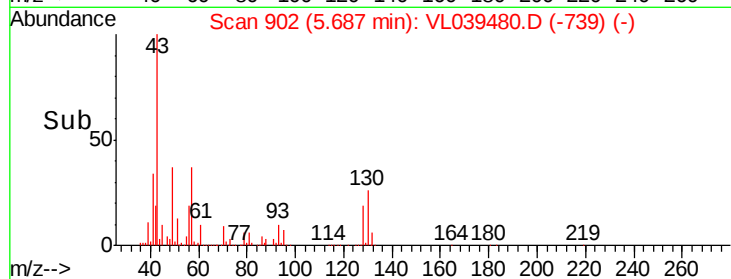
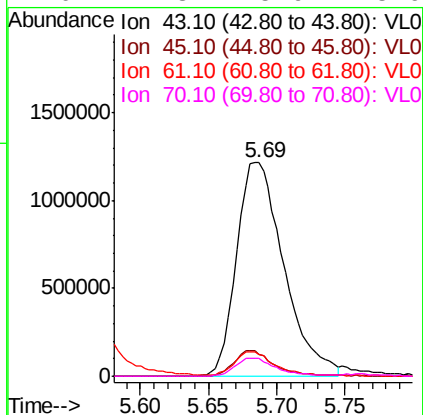
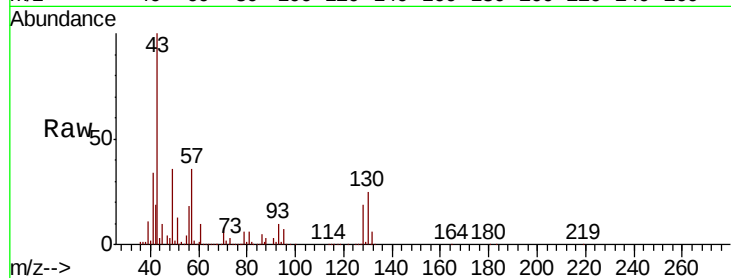




#25  
Ethyl Acetate  
Concen: 9.944 ppbv  
RT: 5.69  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Jul 2022 12:51

Tot Ion: 43 Resp: 2928000

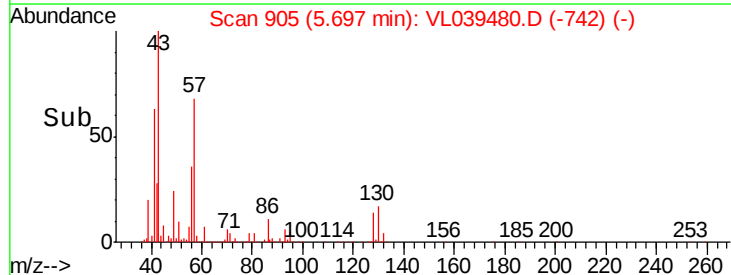
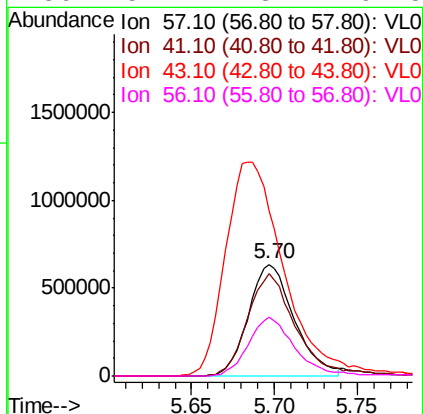
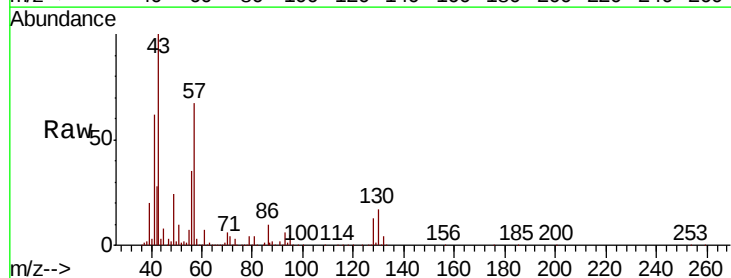
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.5  | 8.2   | 12.4  |
| 61  | 10.3  | 8.3   | 12.5  |
| 70  | 7.3   | 5.9   | 8.9   |

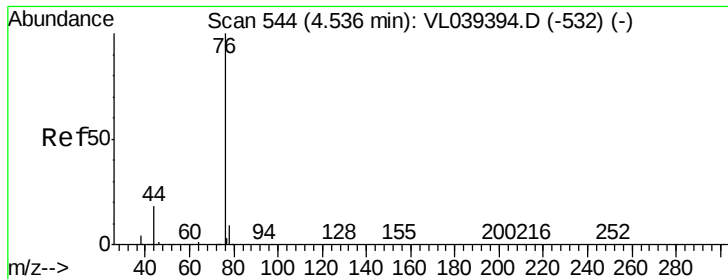


#26  
Hexane  
Concen: 10.303 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. 0.03 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

Tgt Ion: 57 Resp: 1222906

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 98.4  | 76.9  | 115.3 |
| 43  | 247.1 | 191.0 | 286.6 |
| 56  | 54.7  | 43.2  | 64.8  |





#27

Carbon Disulfide

Concen: 10.833 ppbv

RT: 4.56 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

Acq: 19 Jul 2022 12:51

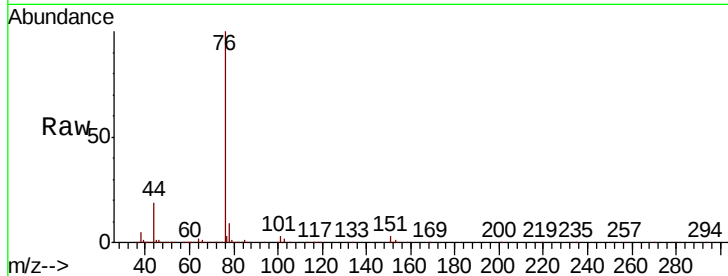
Tot Ion: 76 Resp: 1551954

Ion Ratio Lower Upper

76 100

44 19.2 14.6 21.8

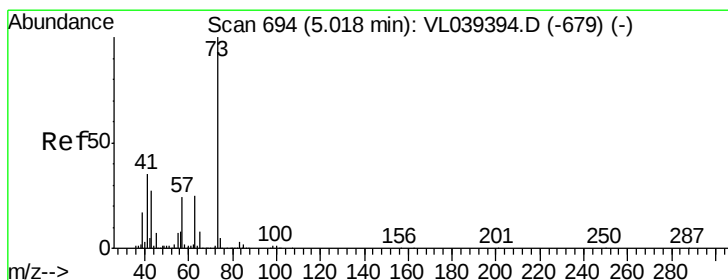
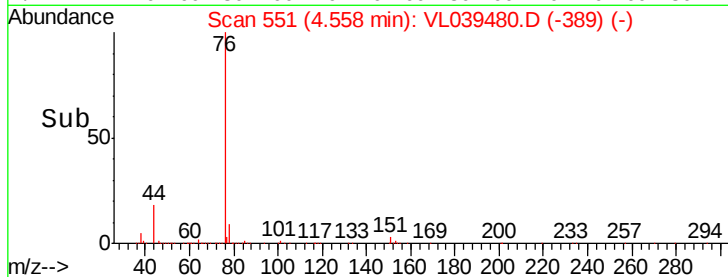
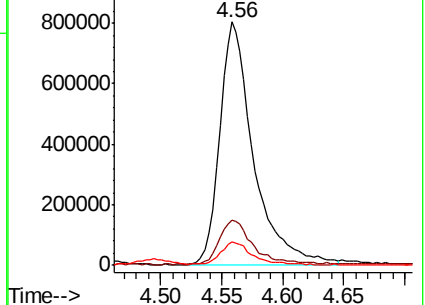
78 9.9 7.8 11.6



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: 9.569 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.03 min

Lab File: VL039480.D

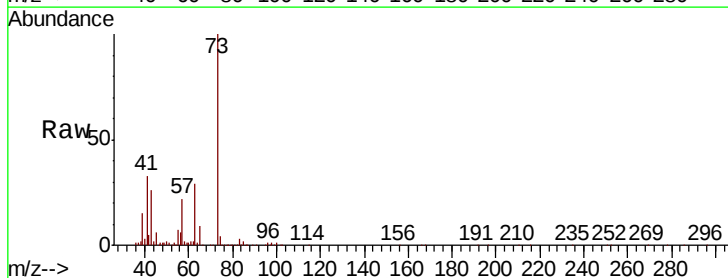
Acq: 19 Jul 2022 12:51

Tgt Ion: 73 Resp: 1214362

Ion Ratio Lower Upper

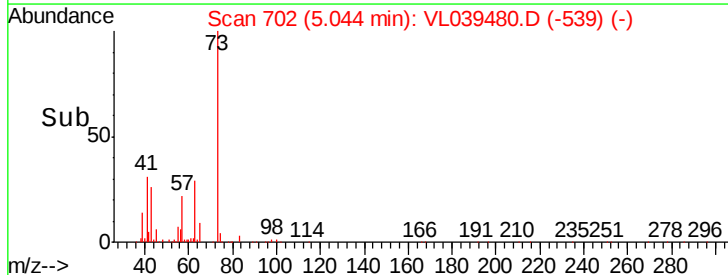
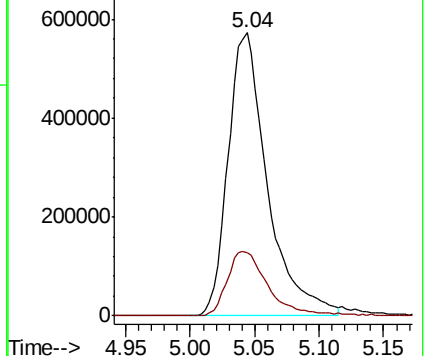
73 100

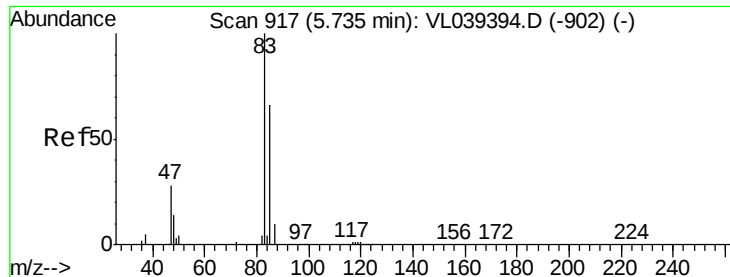
57 24.0 19.8 29.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.602 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

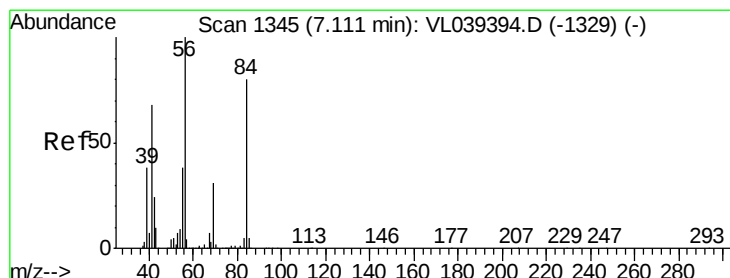
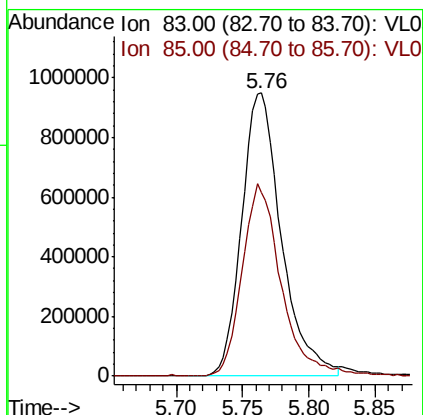
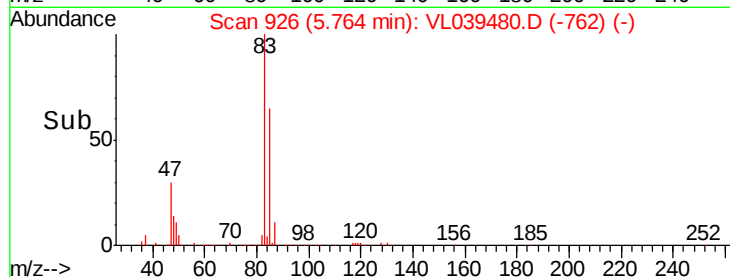
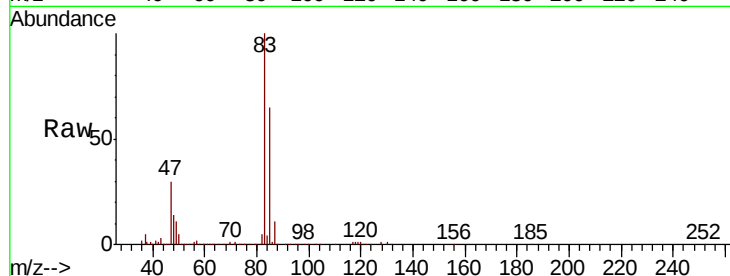
Acq: 19 Jul 2022 12:51 VSTDCCC010

Tot Ion: 83 Resp: 1981753

Ion Ratio Lower Upper

83 100

85 64.5 52.8 79.2



#30

Cyclohexane

Concen: 10.258 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.03 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

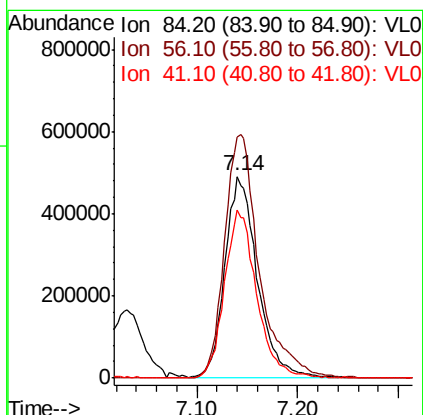
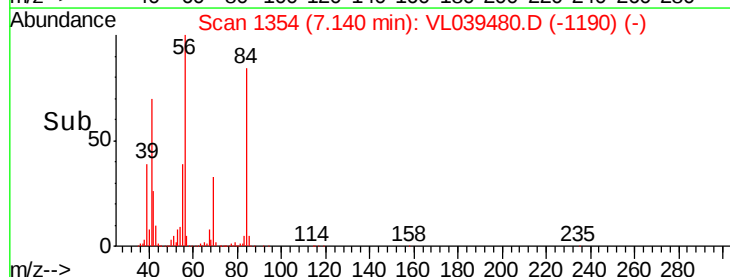
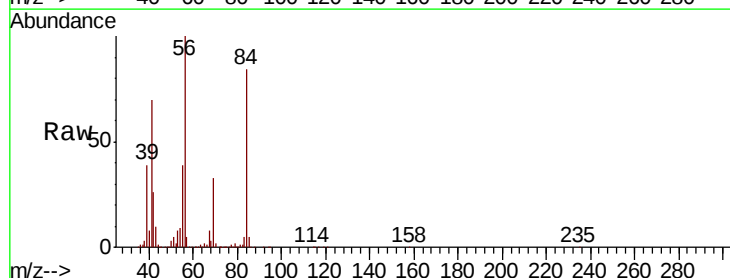
Tgt Ion: 84 Resp: 1108467

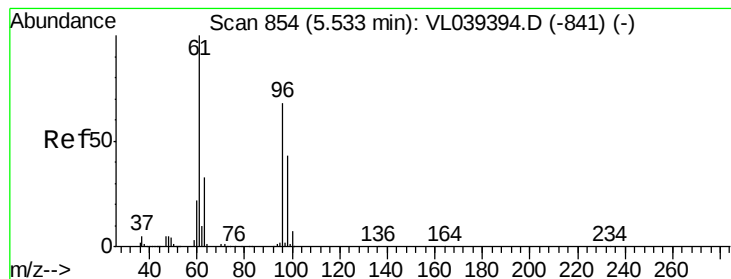
Ion Ratio Lower Upper

84 100

56 129.3 107.7 161.5

41 82.8 67.7 101.5





#31

cis-1,2-Dichloroethene

Concen: 10.012 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 12:51 VSTDCCC010

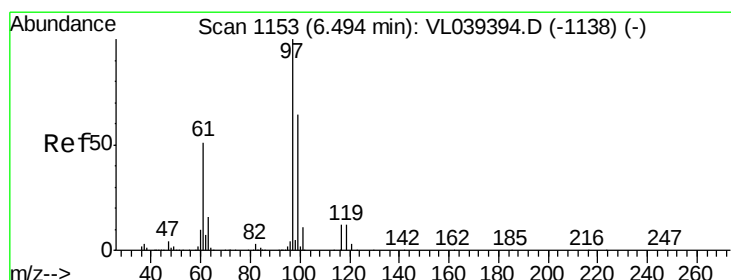
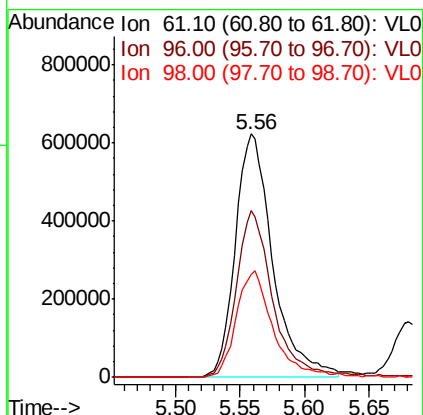
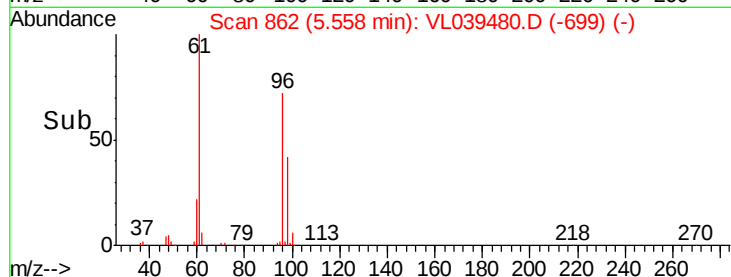
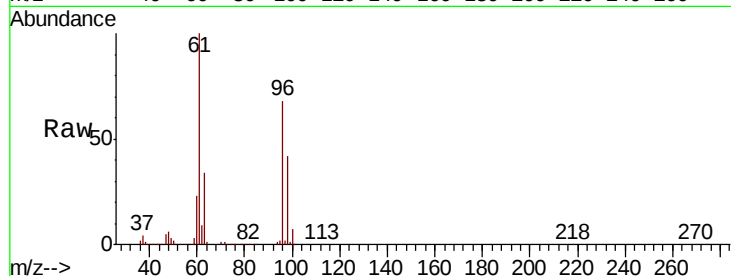
Tot Ion: 61 Resp: 1260882

Ion Ratio Lower Upper

61 100

96 68.3 54.1 81.1

98 42.5 34.6 52.0



#32

1,1,1-Trichloroethane

Concen: 10.370 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

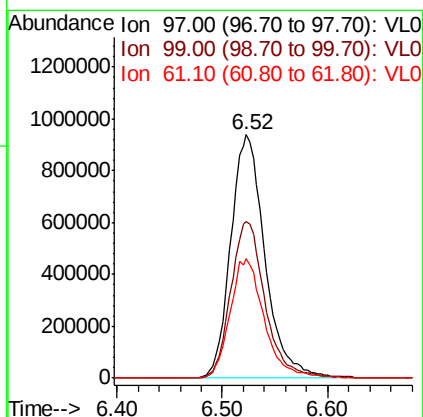
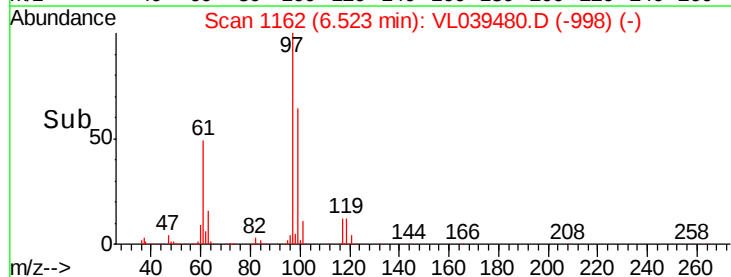
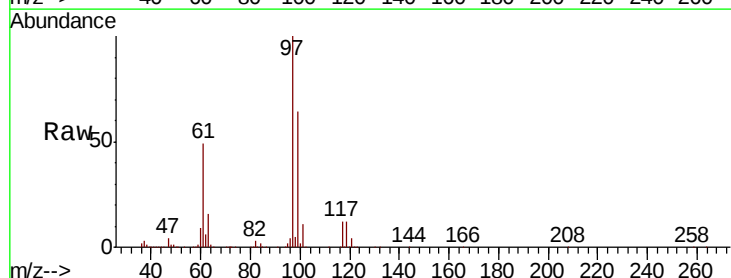
Tgt Ion: 97 Resp: 2112510

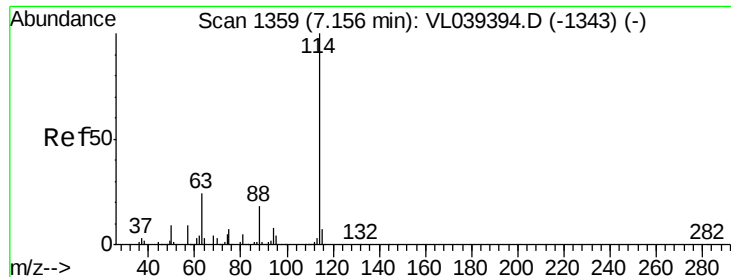
Ion Ratio Lower Upper

97 100

99 64.7 52.3 78.5

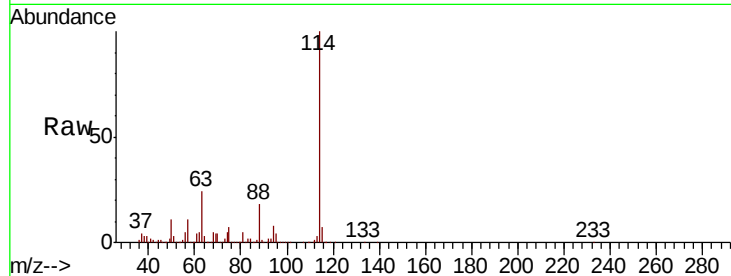
61 48.7 40.9 61.3



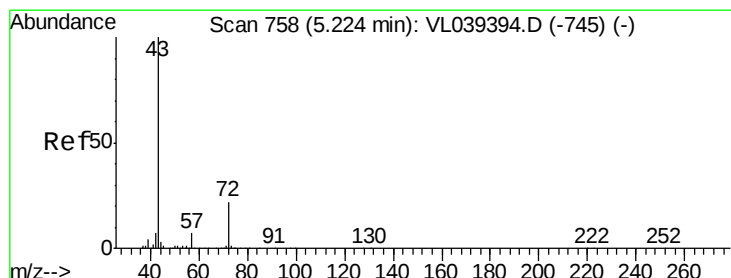
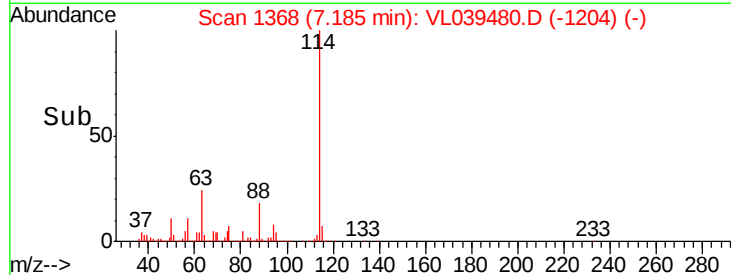
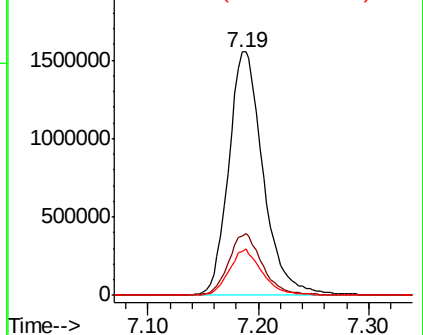


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

Tot Ion:114 Resp: 3369384  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 20.2 30.4  
 88 18.1 14.5 21.7

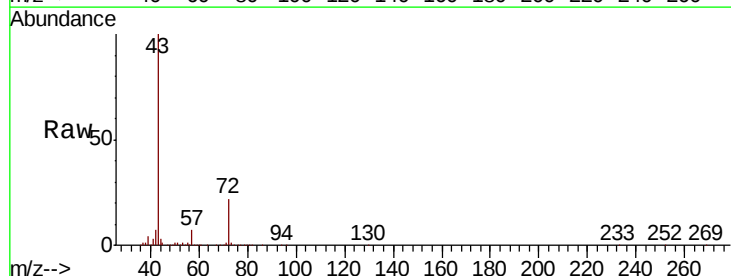


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

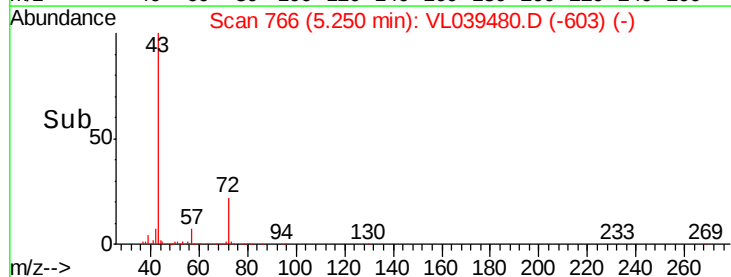
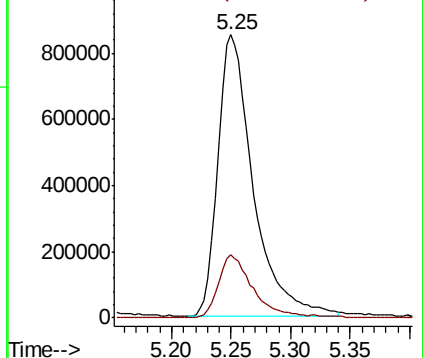


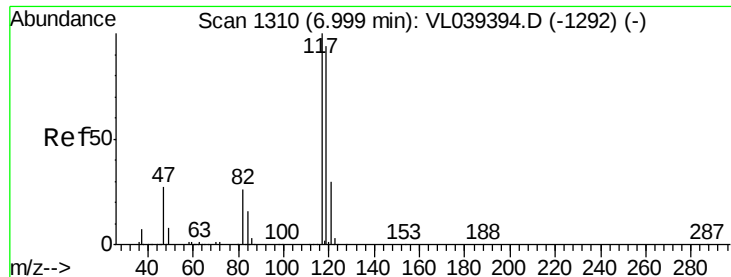
#34  
 2-Butanone  
 Concen: 10.367 ppbv  
 RT: 5.25 min Scan# 766  
 Delta R.T.: 0.03 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 43 Resp: 1758324  
 Ion Ratio Lower Upper  
 43 100  
 72 22.5 17.9 26.9



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





#35

Carbon Tetrachloride

Concen: 10.717 ppbv

RT: 7.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 12:51

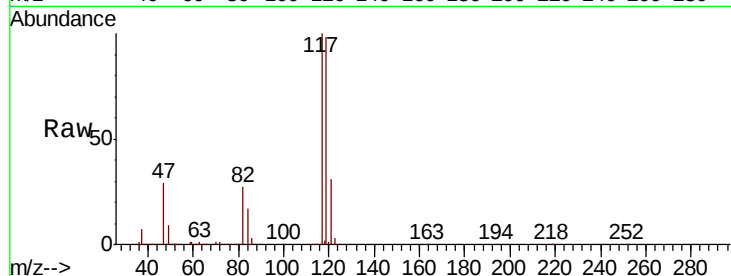
Tot Ion:117 Resp: 2231180

Ion Ratio Lower Upper

117 100

119 98.2 75.4 113.2

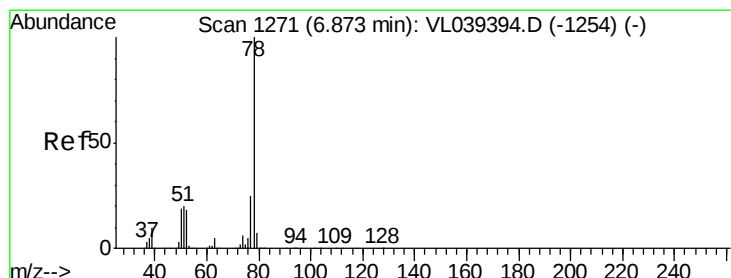
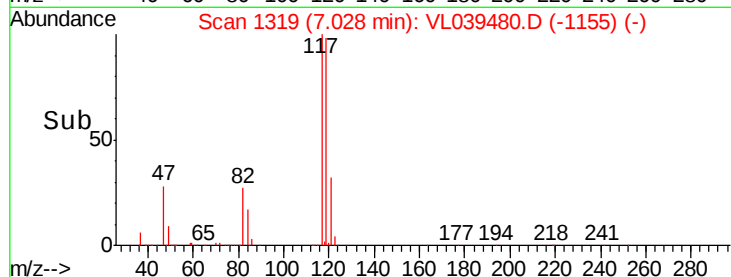
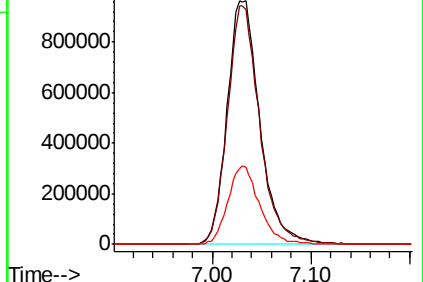
121 31.4 24.2 36.2



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: 10.131 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.03 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

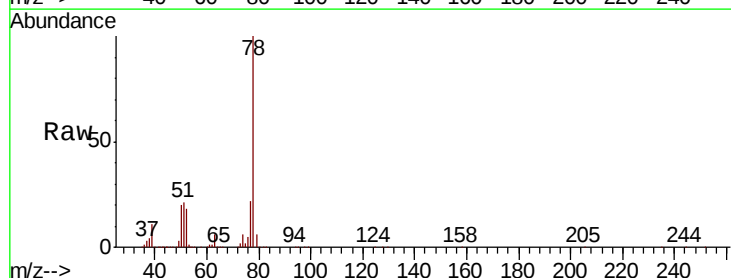
Tgt Ion: 78 Resp: 2642006

Ion Ratio Lower Upper

78 100

77 22.3 20.3 30.5

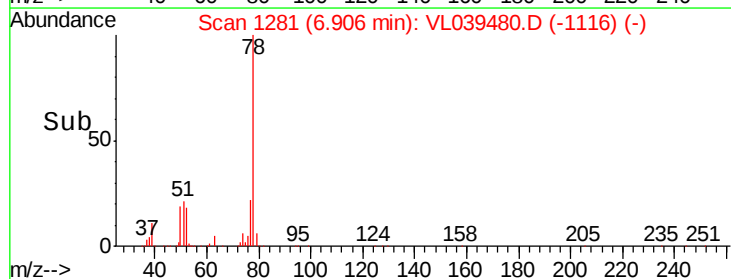
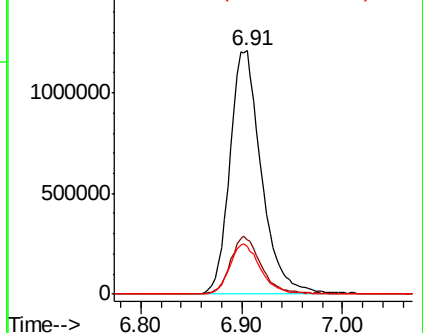
50 19.5 15.5 23.3

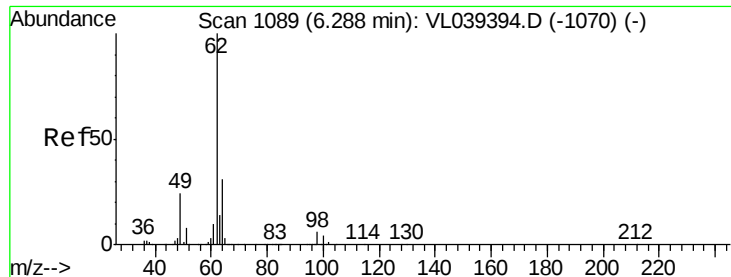


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

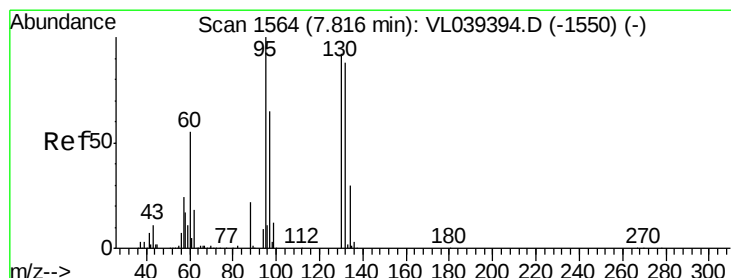
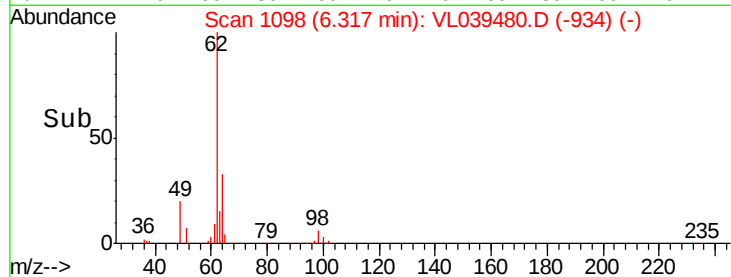
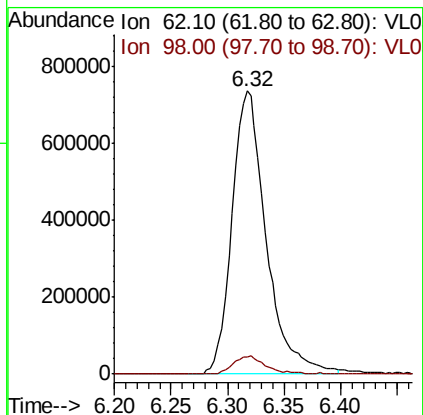
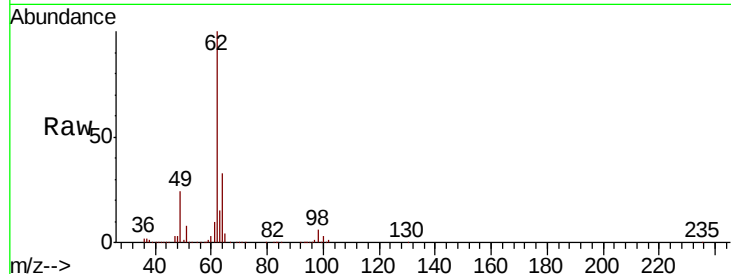
Ion 50.10 (49.80 to 50.80): VL0





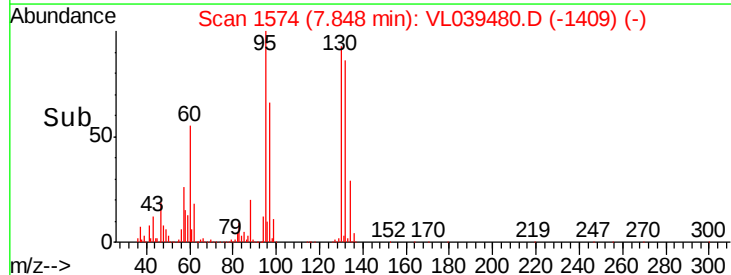
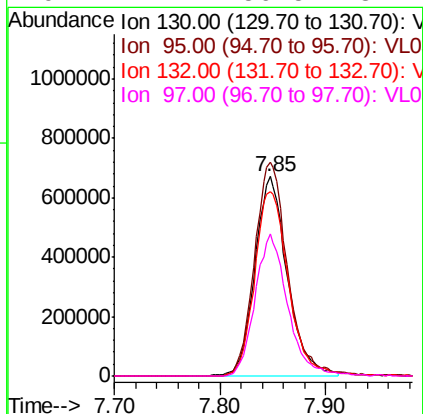
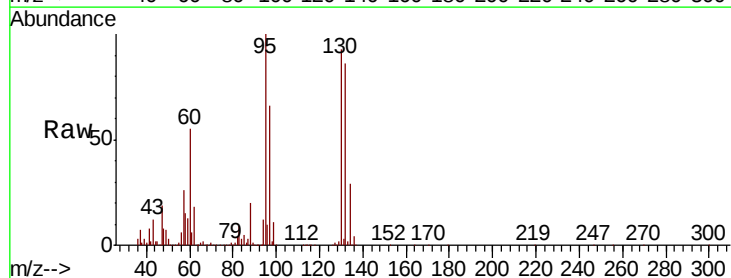
#37  
 1,2-Dichloroethane  
 Concen: 10.071 ppbv  
 RT: 6.32  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Jul 2022 12:51

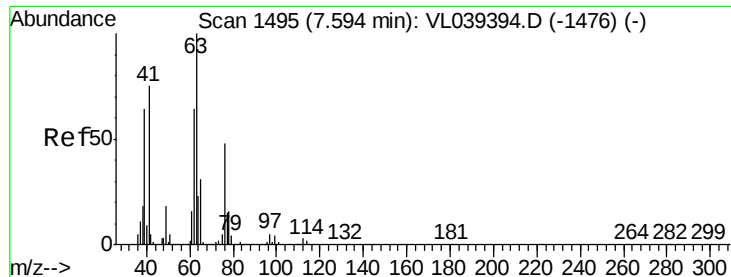
Tot Ion: 62 Resp: 1550144  
 Ion Ratio Lower Upper  
 62 100  
 98 6.4 5.1 7.7



#38  
 Trichloroethene  
 Concen: 10.188 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. 0.03 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

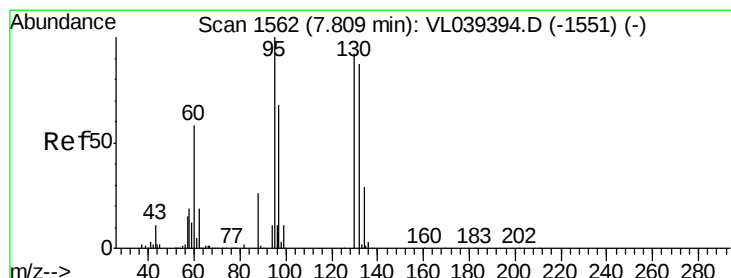
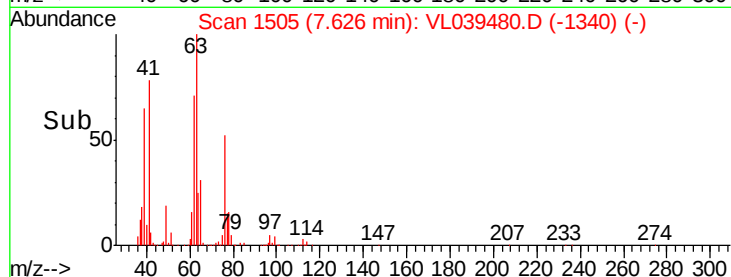
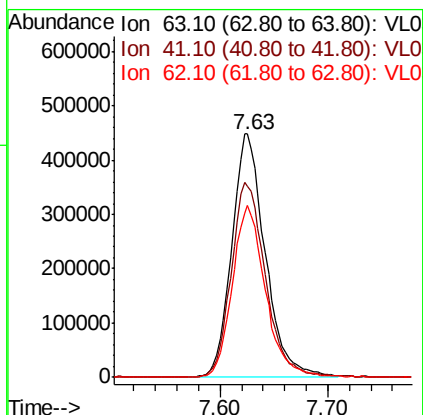
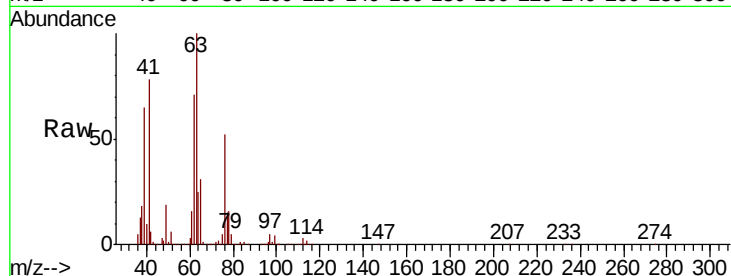
Tgt Ion:130 Resp: 1436933  
 Ion Ratio Lower Upper  
 130 100  
 95 107.2 87.3 130.9  
 132 92.2 76.7 115.1  
 97 71.2 56.5 84.7





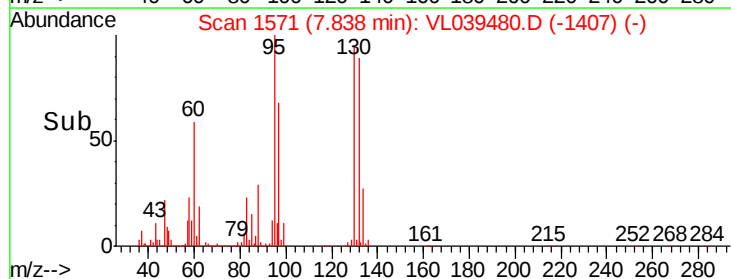
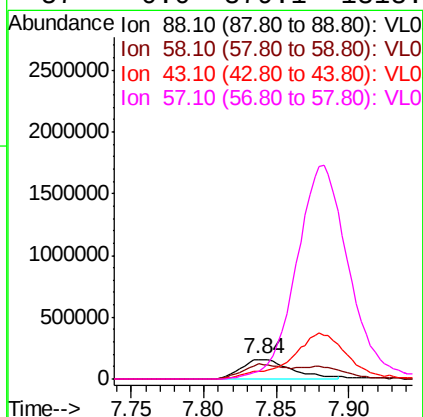
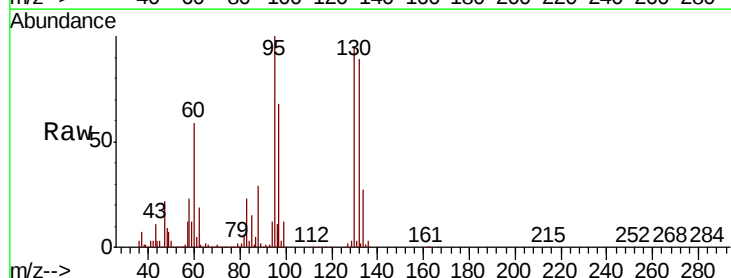
#39  
 1,2-Dichloropropane  
 Concen: 9.965 ppbv  
 RT: 7.63  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Jul 2022 12:51

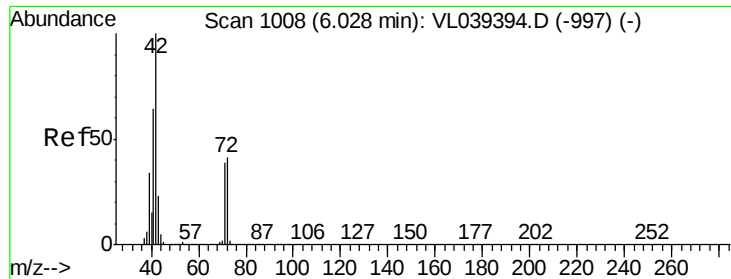
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 78.5  | 59.6  | 89.4  |
| 62      | 70.5  | 51.4  | 77.0  |



#40  
 1,4-Dioxane  
 Concen: 9.897 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.03 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

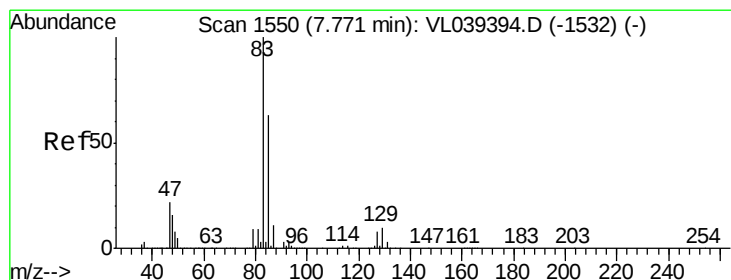
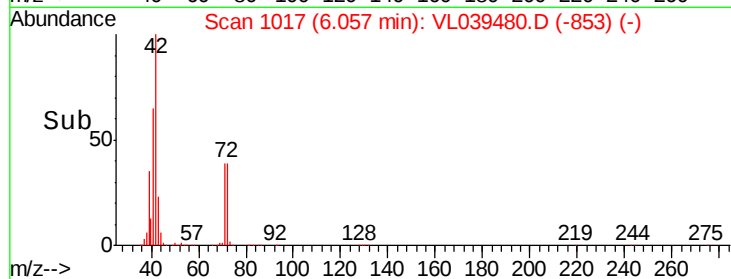
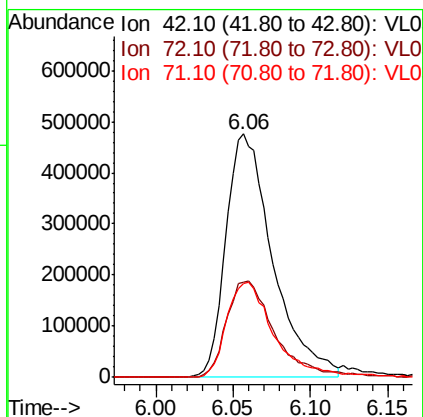
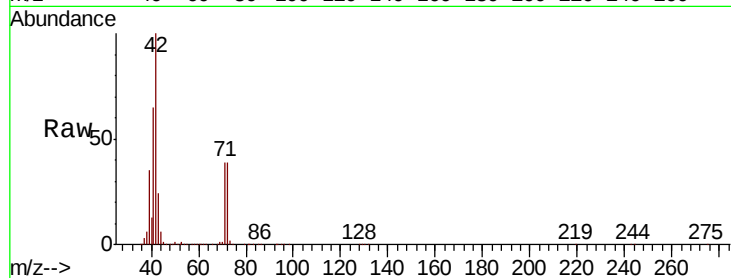
| Tgt Ion | Ratio | Lower | Upper   |
|---------|-------|-------|---------|
| 88      | 100   |       |         |
| 58      | 63.6  | 100.2 | 150.4#  |
| 43      | 0.0   | 205.8 | 308.6#  |
| 57      | 0.0   | 879.1 | 1318.7# |





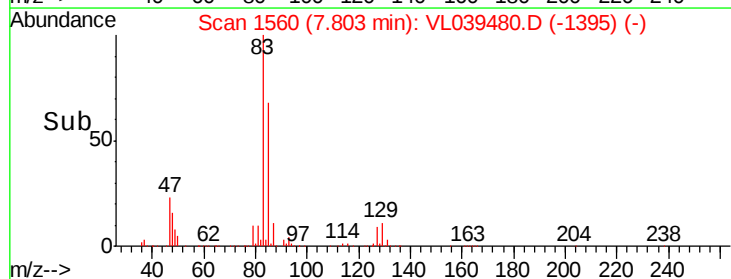
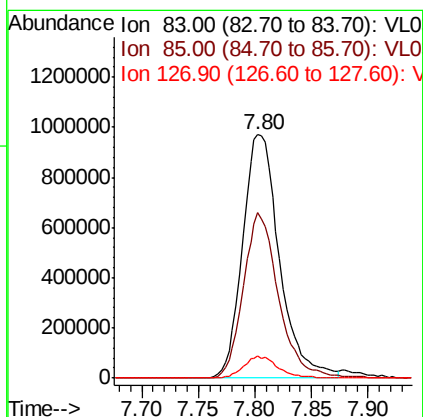
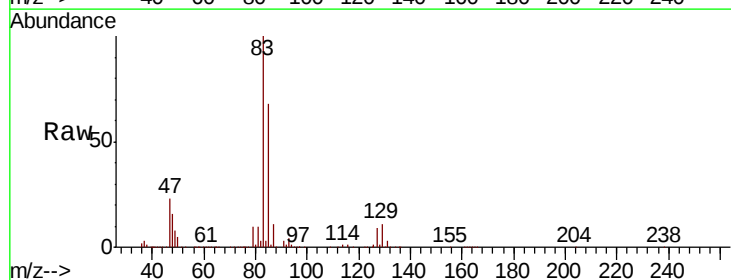
#41  
Tetrahydrofuran  
Concen: 10.176 ppbv  
RT: 6.06  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 19 Jul 2022 12:51

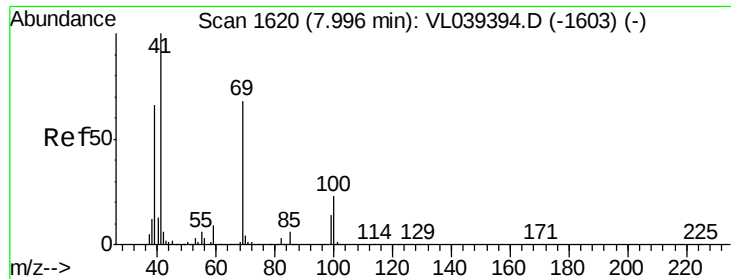
Tot Ion: 42 Resp: 1000205  
Ion Ratio Lower Upper  
42 100  
72 41.5 31.8 47.8  
71 40.5 31.8 47.8



#42  
Bromodichloromethane  
Concen: 10.629 ppbv  
RT: 7.80 min Scan# 1560  
Delta R.T.: 0.03 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

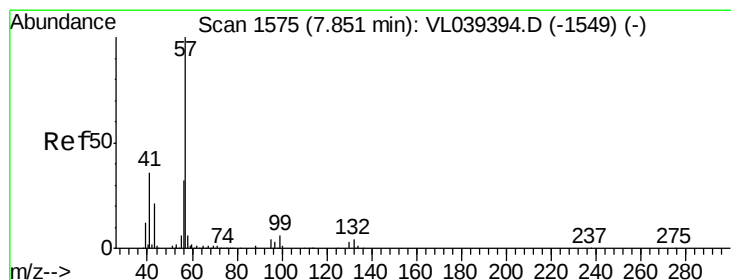
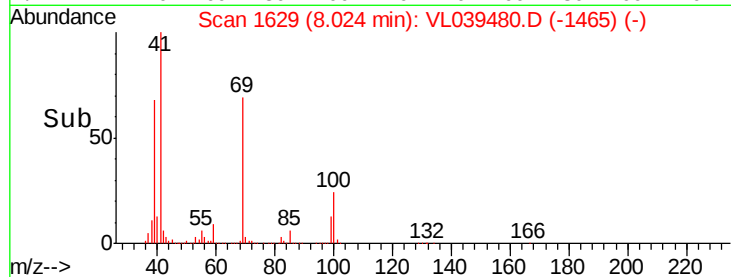
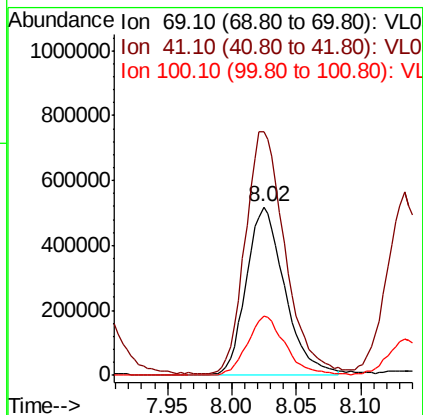
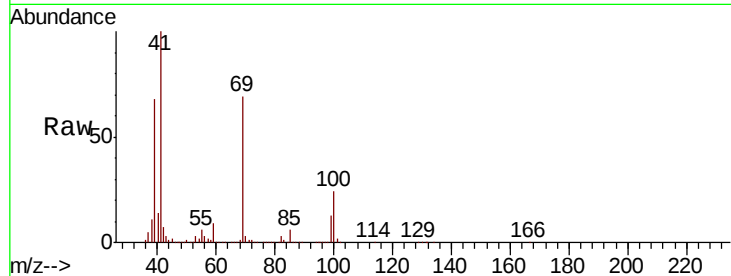
Tgt Ion: 83 Resp: 2205979  
Ion Ratio Lower Upper  
83 100  
85 67.7 50.7 76.1  
127 9.2 6.6 9.8





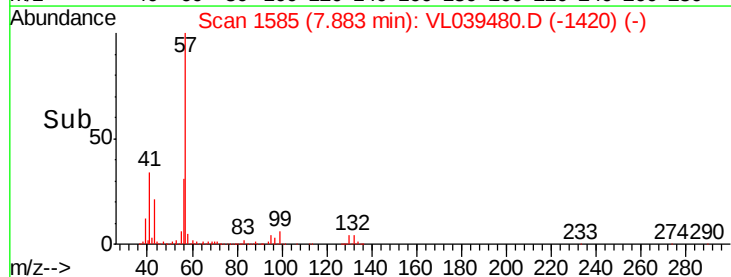
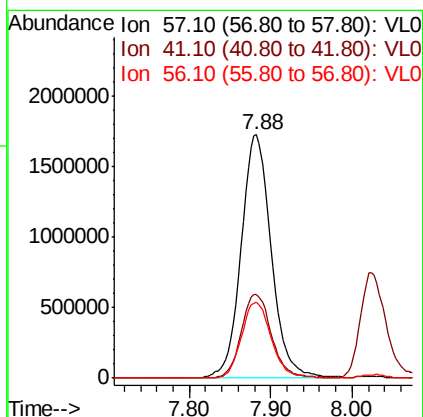
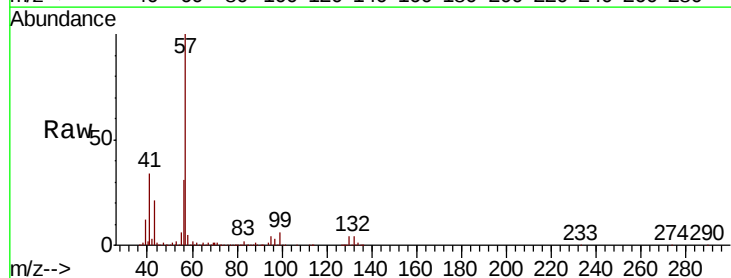
#43  
Methyl Methacrylate  
Concen: 10.887 ppbv  
RT: 8.02  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010  
Acq: 19 Jul 2022 12:51

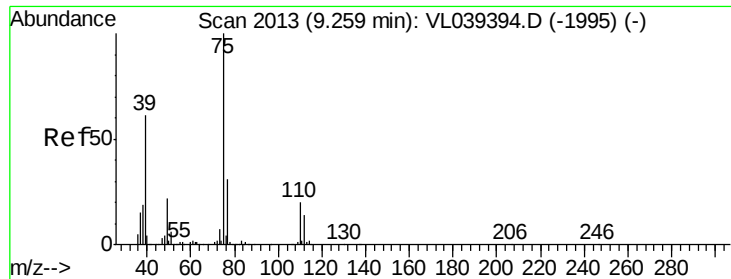
Tot Ion: 69 Resp: 1079547  
Ion Ratio Lower Upper  
69 100  
41 151.1 120.8 181.2  
100 35.1 27.8 41.6



#44  
2,2,4-Trimethylpentane  
Concen: 9.928 ppbv  
RT: 7.88 min Scan# 1585  
Delta R.T.: 0.03 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

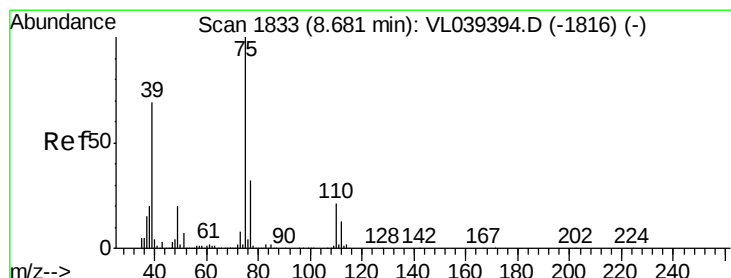
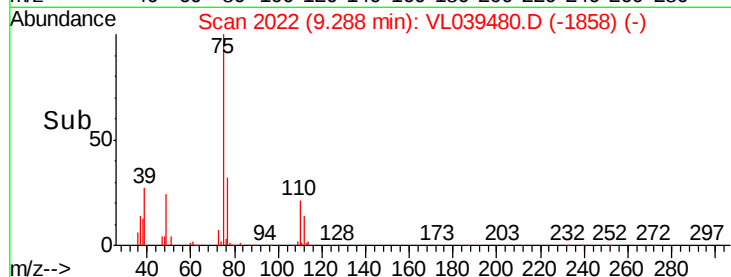
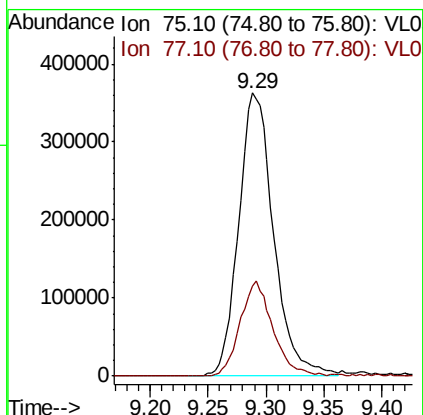
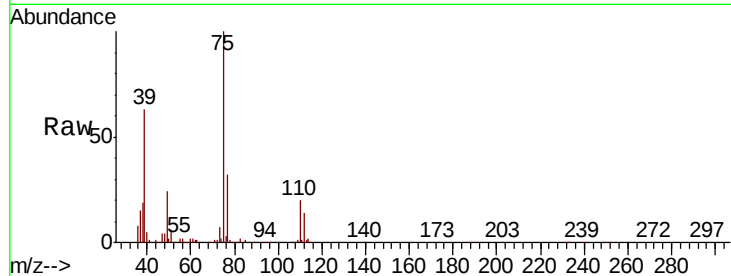
Tgt Ion: 57 Resp: 4387391  
Ion Ratio Lower Upper  
57 100  
41 34.6 27.4 41.2  
56 30.9 24.5 36.7





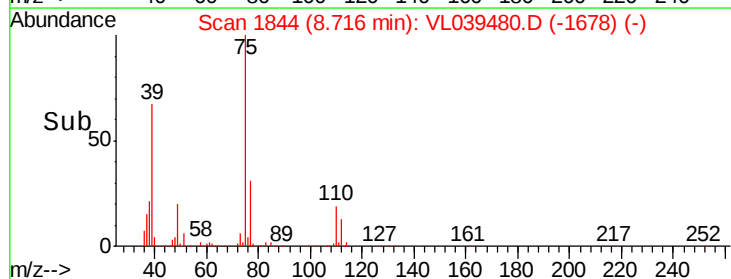
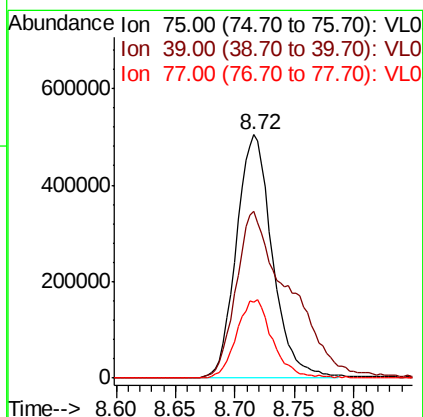
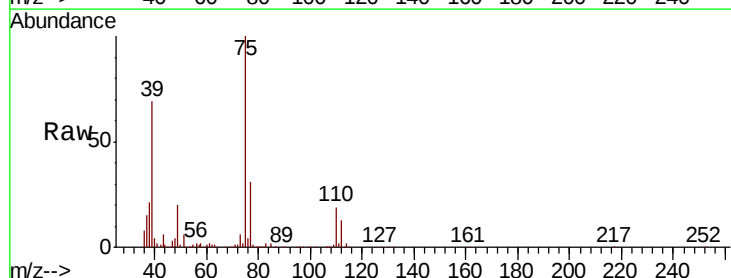
#45  
 t-1,3-Dichloropropene  
 Concen: 8.578 ppbv  
 RT: 9.29  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

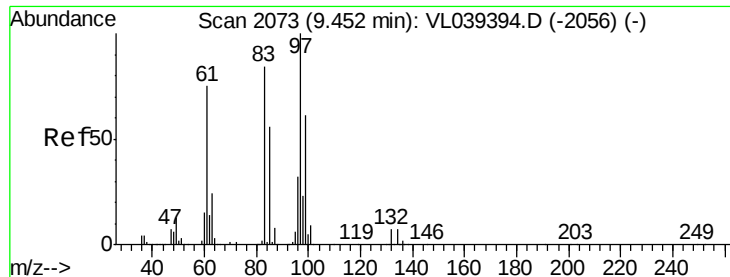
Tot Ion: 75 Resp: 757307  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 24.6 36.8



#46  
 cis-1,3-Dichloropropene  
 Concen: 8.694 ppbv  
 RT: 8.72 min Scan# 1844  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 75 Resp: 1056485  
 Ion Ratio Lower Upper  
 75 100  
 39 68.4 55.0 82.4  
 77 31.0 25.7 38.5

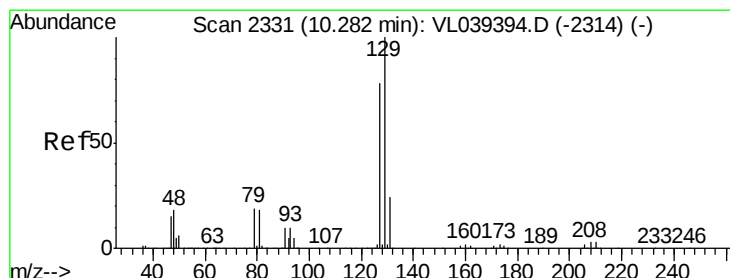
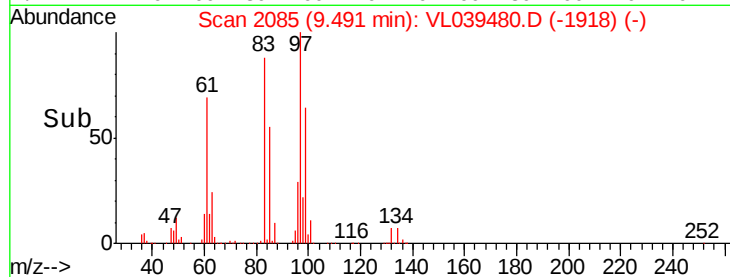
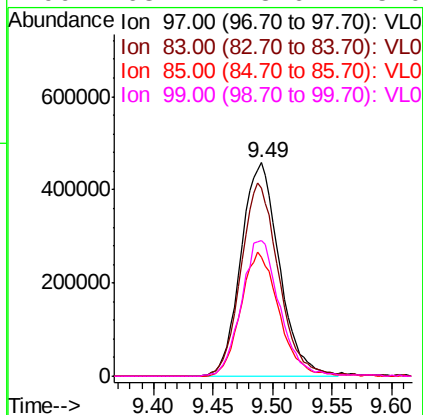
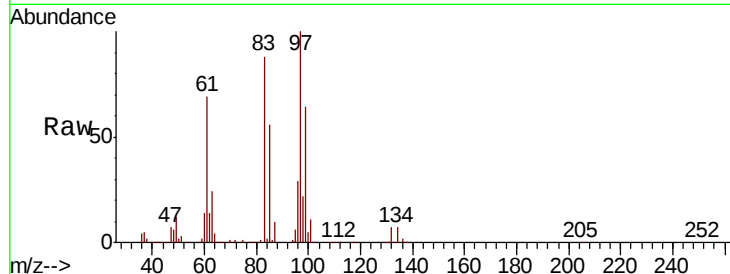




#47  
 1,1,2-Trichloroethane  
 Concen: 9.386 ppbv  
 RT: 9.49  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

Tot Ion: 97 Resp: 1025946

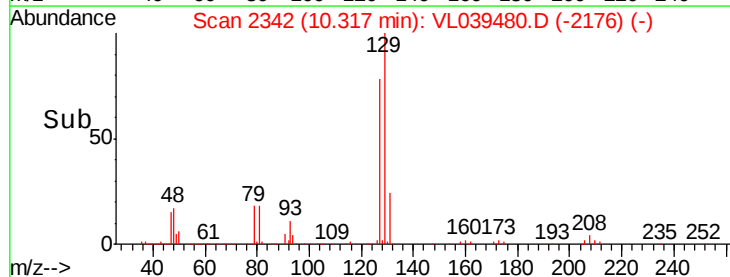
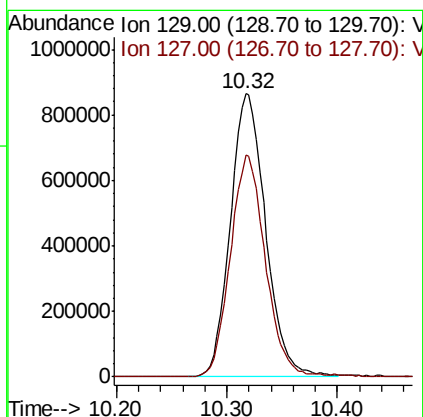
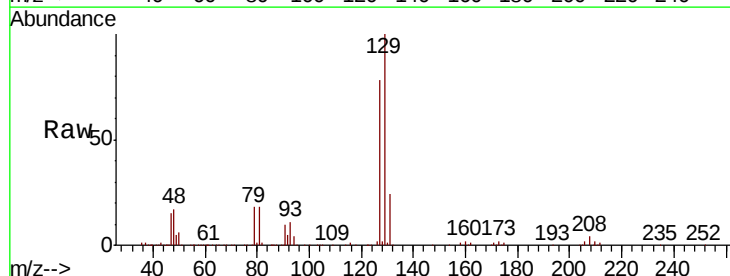
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.0  | 67.4  | 101.0 |
| 85  | 55.6  | 45.1  | 67.7  |
| 99  | 63.7  | 48.6  | 73.0  |

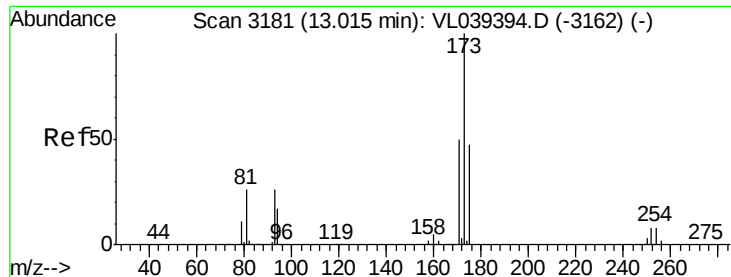


#48  
 Dibromochloromethane  
 Concen: 11.043 ppbv  
 RT: 10.32 min Scan# 2342  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 129 Resp: 1918622

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.5  | 39.3  | 117.9 |





#49

Bromoform

Concen: 11.600 ppbv

RT: 13.06

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Jul 2022 12:51

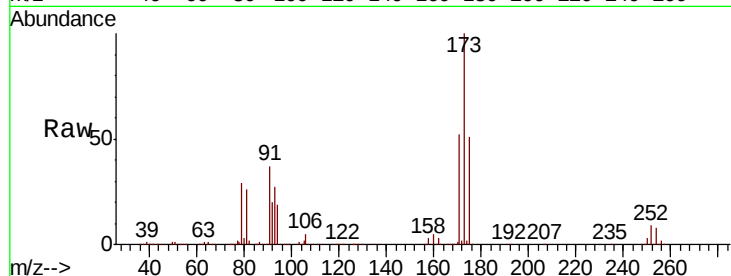
Tot Ion:173 Resp: 1625888

Ion Ratio Lower Upper

173 100

175 51.0 40.3 60.5

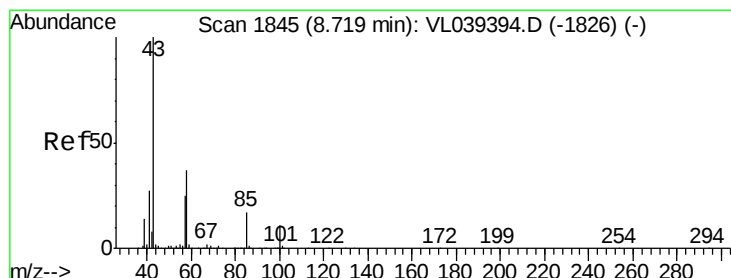
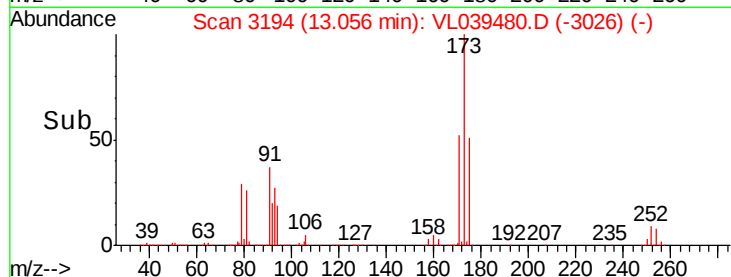
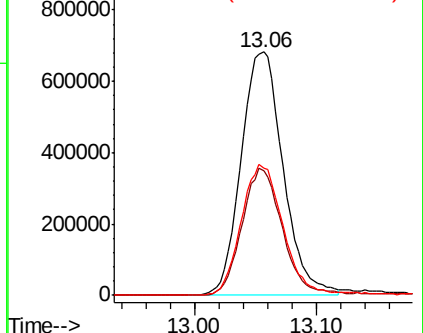
171 54.6 42.9 64.3



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: 9.159 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.03 min

Lab File: VL039480.D

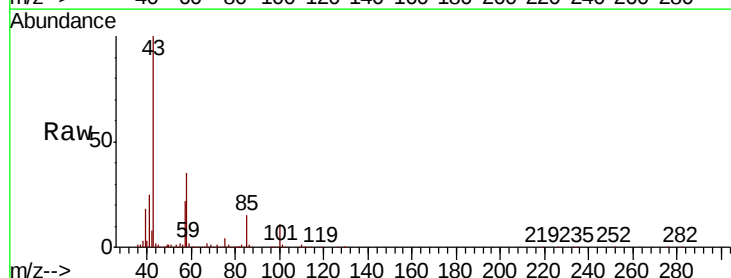
Acq: 19 Jul 2022 12:51

Tgt Ion: 43 Resp: 2348863

Ion Ratio Lower Upper

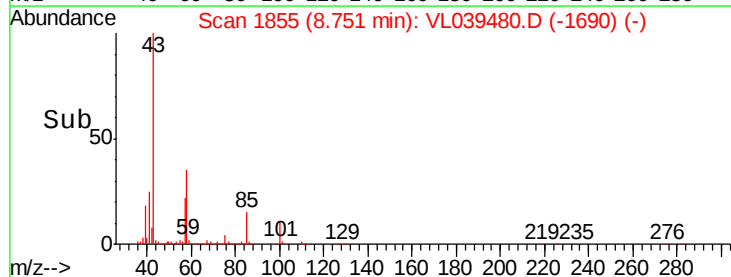
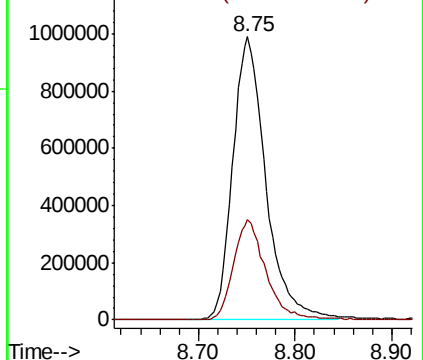
43 100

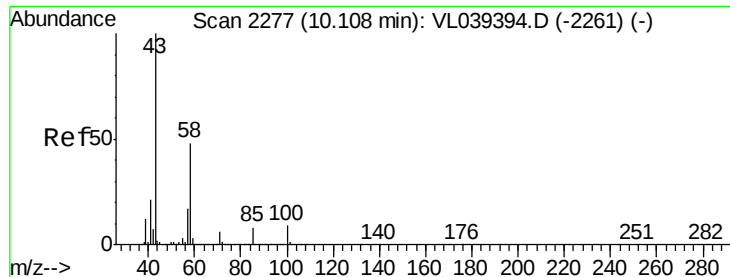
58 34.9 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

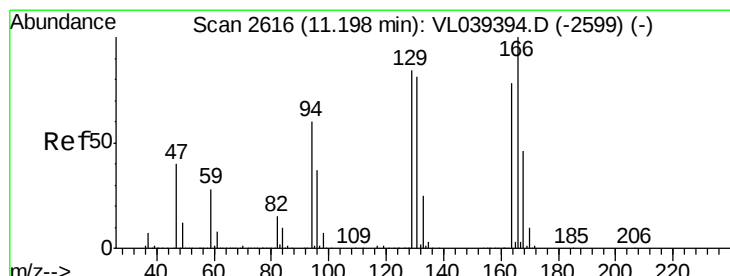
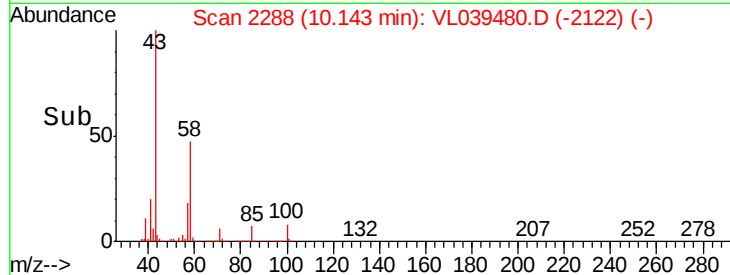
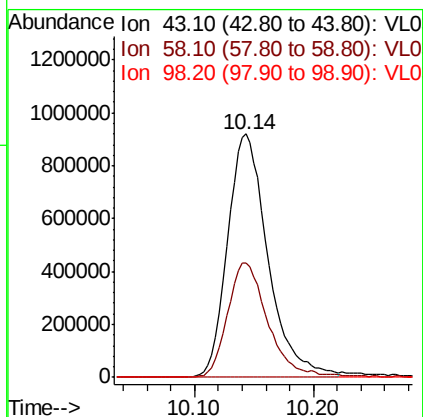
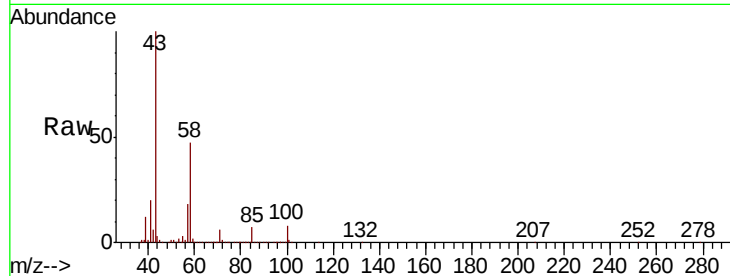
Ion 58.10 (57.80 to 58.80): VL0





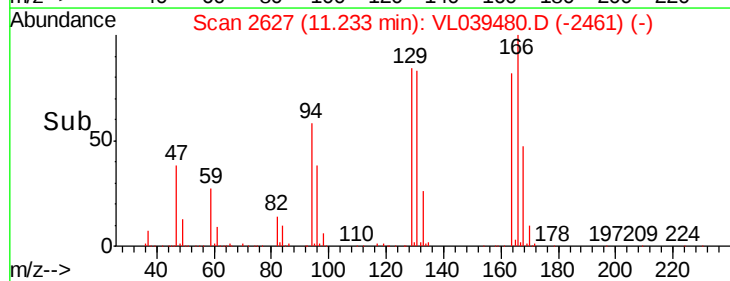
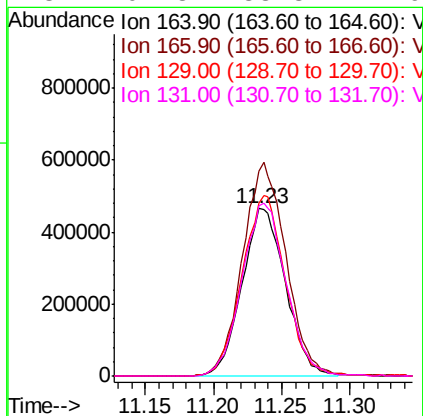
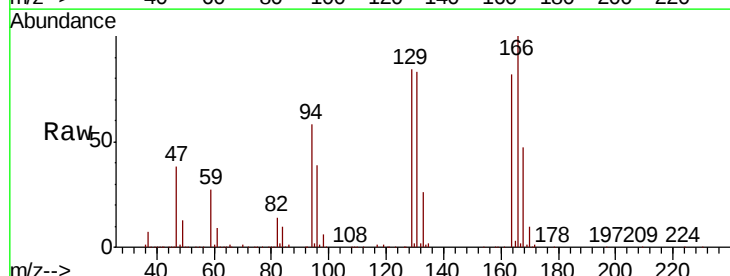
#51  
2-Hexanone  
Concen: 11.111 ppbv  
RT: 10.14 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampled :  
Acq: 19 Jul 2022 12:51  
VSTDCCC010

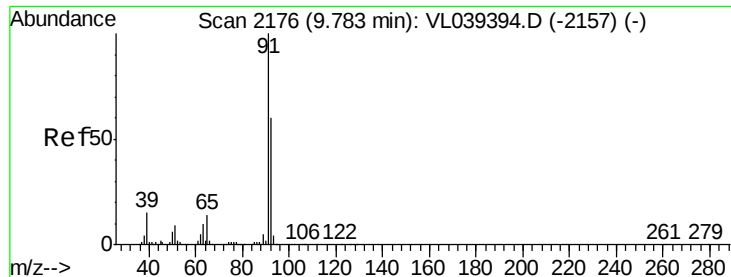
Tot Ion: 43 Resp: 2155438  
Ion Ratio Lower Upper  
43 100  
58 47.9 38.4 57.6  
98 0.4 0.3 0.5



#52  
Tetrachloroethene  
Concen: 9.770 ppbv  
RT: 11.23 min Scan# 2627  
Delta R.T. 0.04 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

Tgt Ion:164 Resp: 1025622  
Ion Ratio Lower Upper  
164 100  
166 122.5 102.2 153.2  
129 103.3 85.8 128.8  
131 101.8 83.3 124.9





#53

Toluene

Concen: 10.469 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

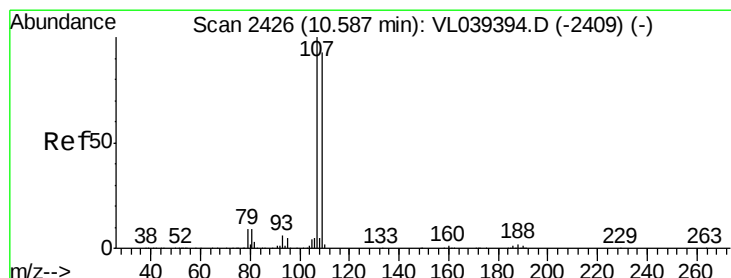
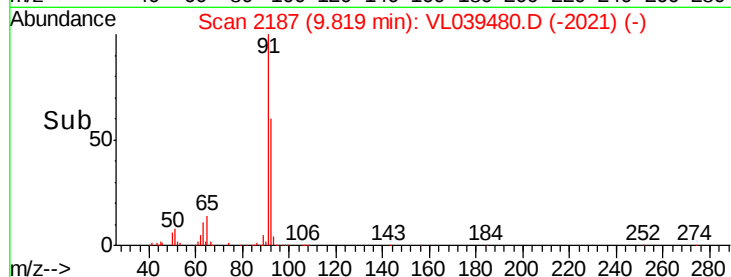
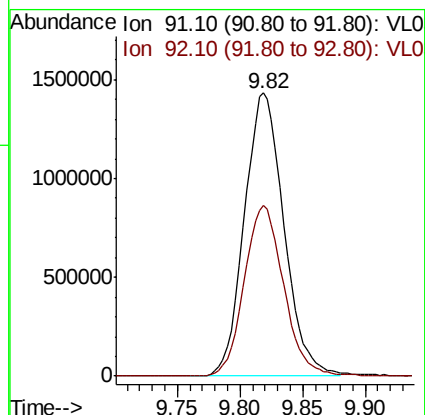
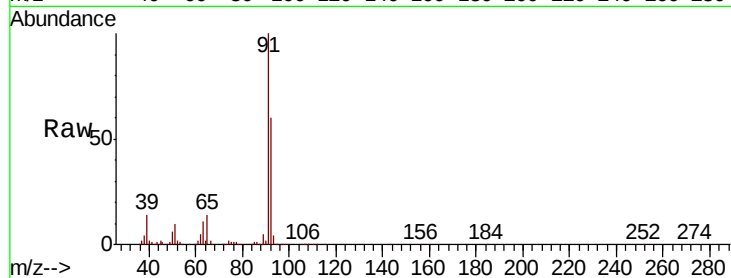
Acq: 19 Jul 2022 12:51 VSTDCCC010

Tot Ion: 91 Resp: 3148932

Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.2



#54

1,2-Dibromoethane

Concen: 10.635 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. 0.04 min

Lab File: VL039480.D

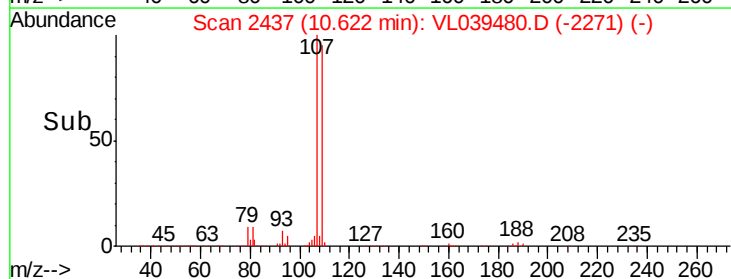
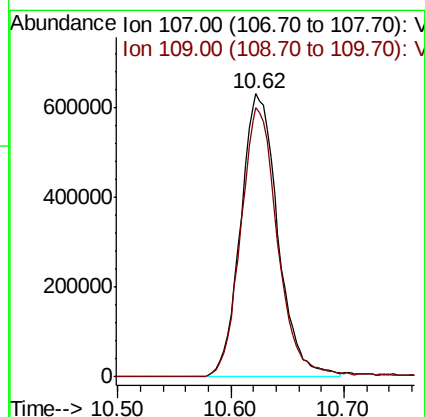
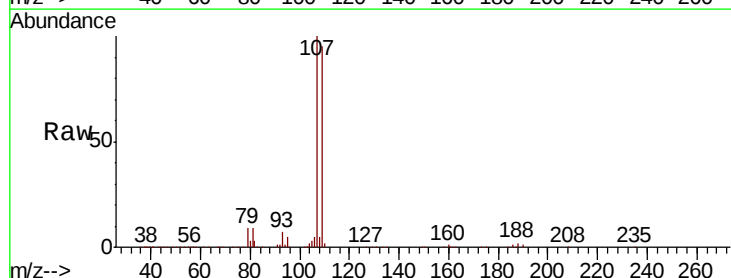
Acq: 19 Jul 2022 12:51

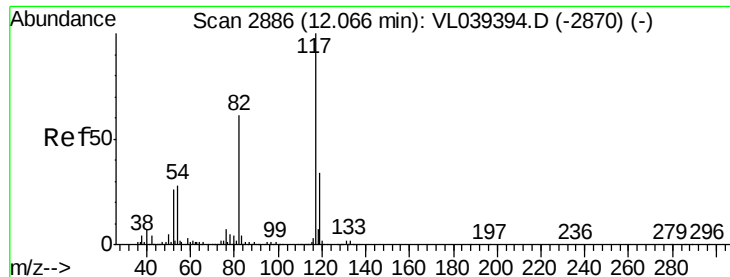
Tgt Ion: 107 Resp: 1446453

Ion Ratio Lower Upper

107 100

109 95.3 74.8 112.2

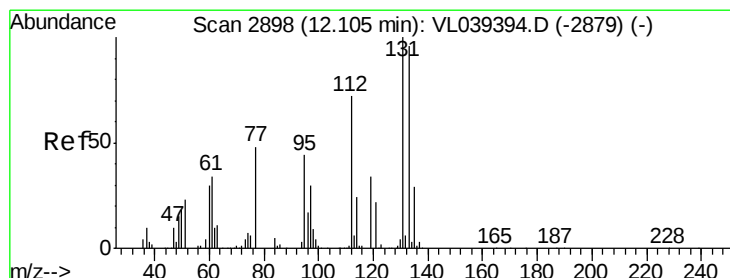
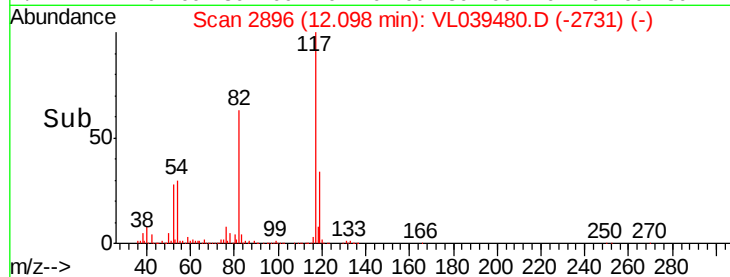
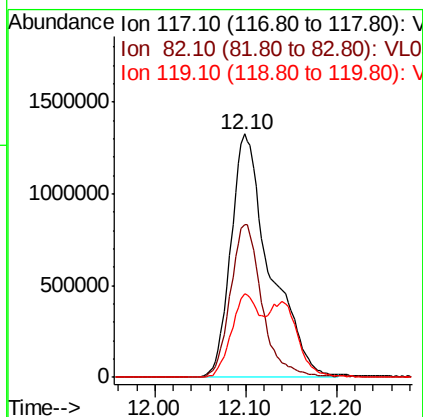
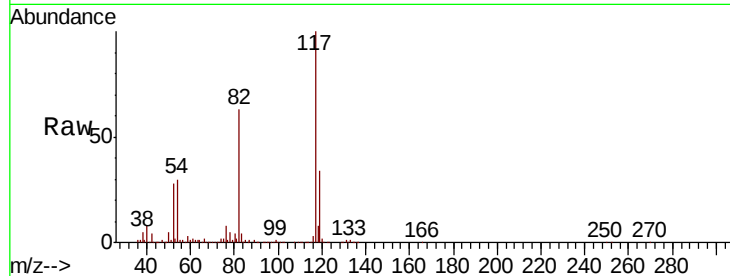




#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

Tot Ion:117 Resp: 3957638

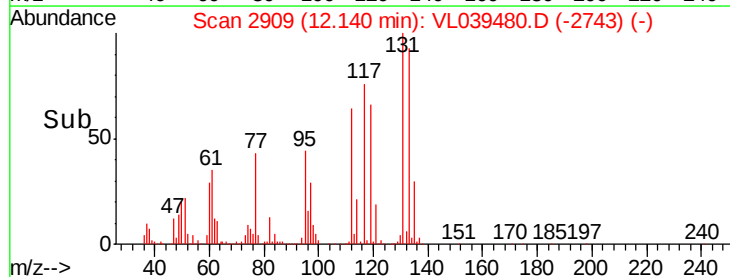
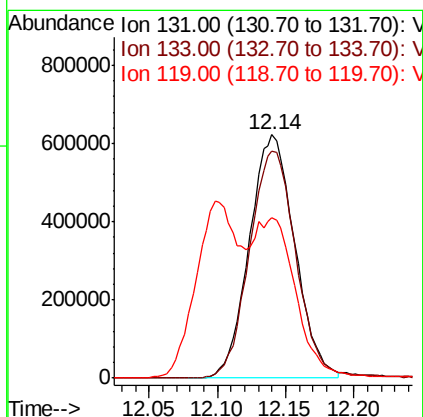
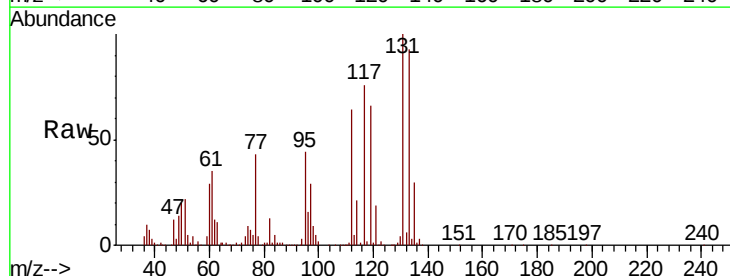
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 51.6  | 50.8  | 76.2  |
| 119 | 27.0  | 24.1  | 36.1  |

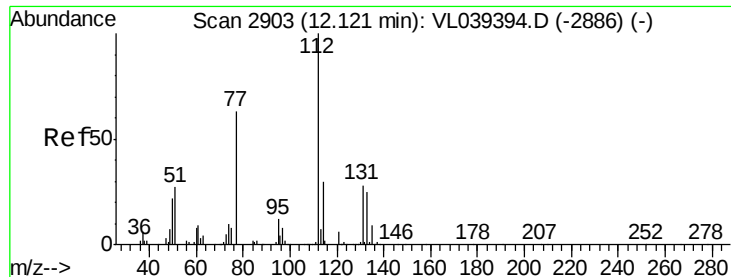


#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 8.229 ppbv  
 RT: 12.14 min Scan# 2909  
 Delta R.T.: 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion:131 Resp: 1438742

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 131 | 100   |       |       |
| 133 | 96.5  | 76.8  | 115.2 |
| 119 | 67.8  | 46.2  | 69.4  |

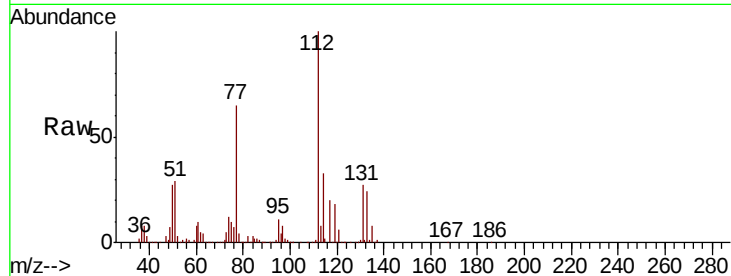




#57  
Chlorobenzene  
Concen: 7.905 ppbv  
RT: 12.16 min  
Delta R.T.: 0.04 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

Tot Ion: 112 Resp: 2425370

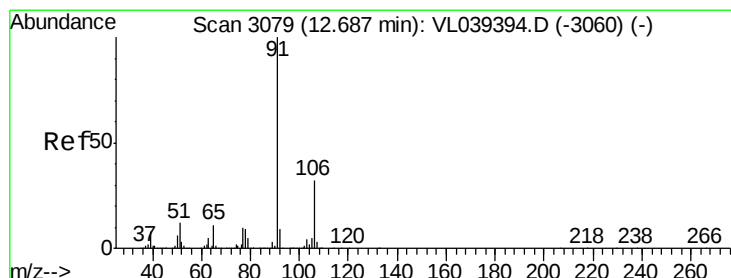
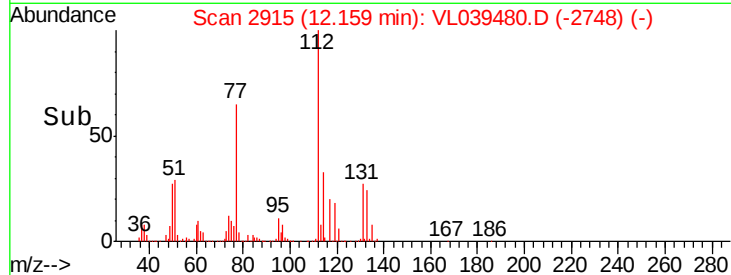
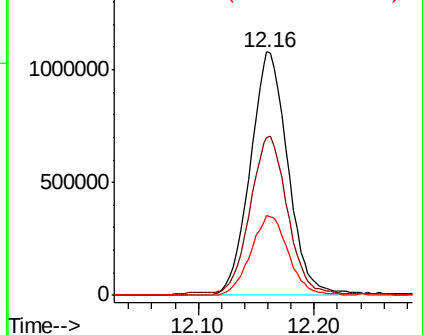
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 77  | 63.6  | 51.0  | 76.4  |
| 114 | 32.9  | 27.5  | 33.6  |



Abundance Ion 112.10 (111.80 to 112.80): VL039394.D (-2886) (-)

Ion 77.10 (76.80 to 77.80): VL039394.D (-2886) (-)

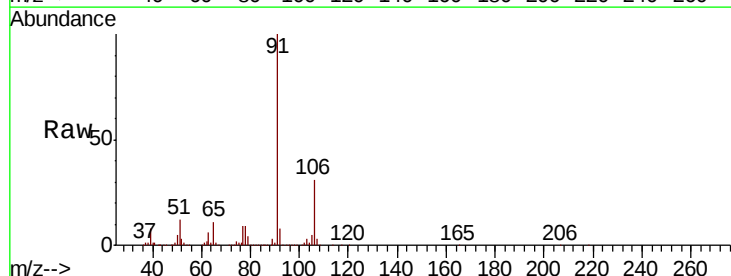
Ion 114.10 (113.80 to 114.80): VL039394.D (-2886) (-)



#58  
Ethyl Benzene  
Concen: 8.245 ppbv  
RT: 12.72 min Scan# 3090  
Delta R.T.: 0.04 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

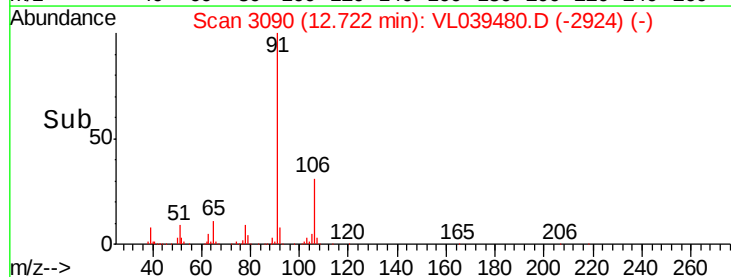
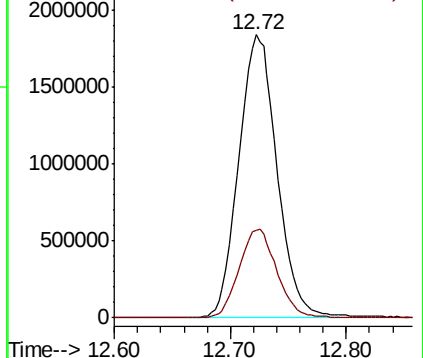
Tgt Ion: 91 Resp: 4213361

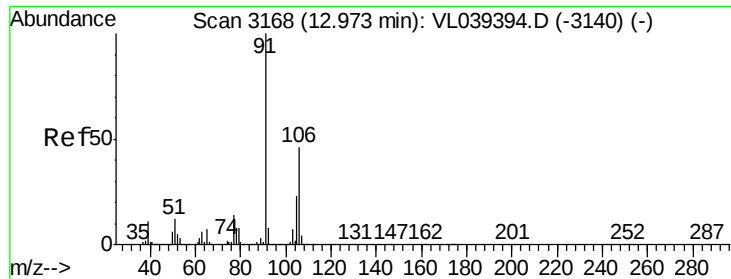
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 106 | 30.9  | 25.4  | 38.0  |



Abundance Ion 91.10 (90.80 to 91.80): VL039394.D (-3060) (-)

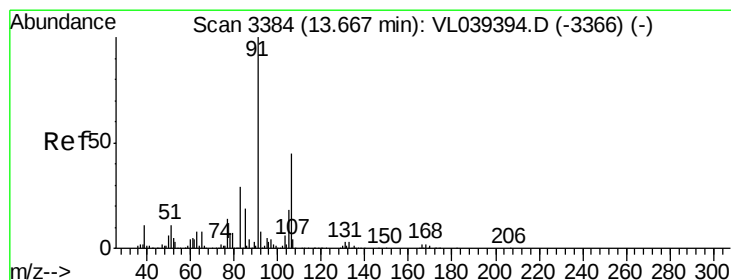
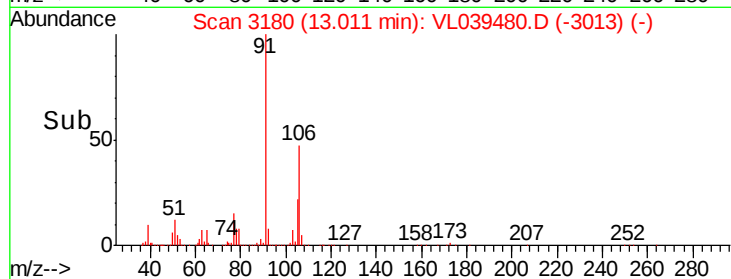
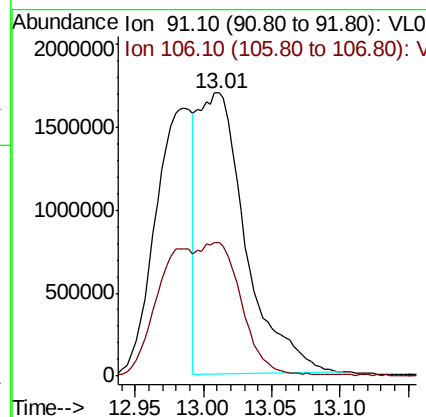
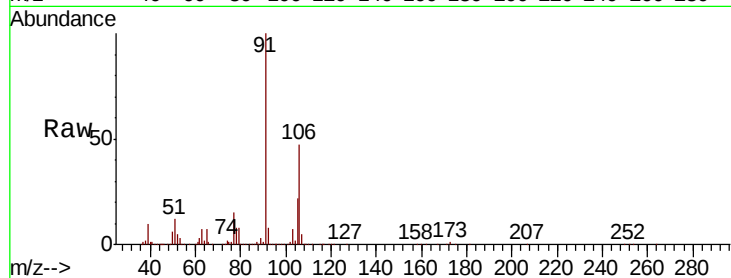
Ion 106.10 (105.80 to 106.80): VL039394.D (-3060) (-)





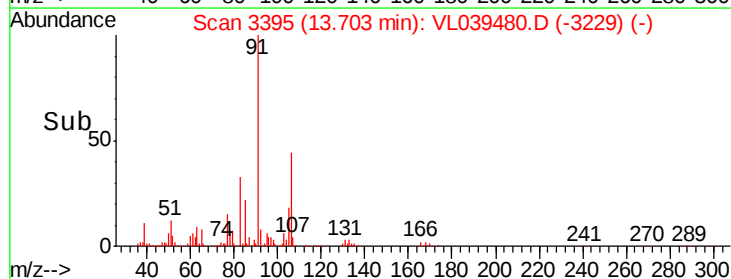
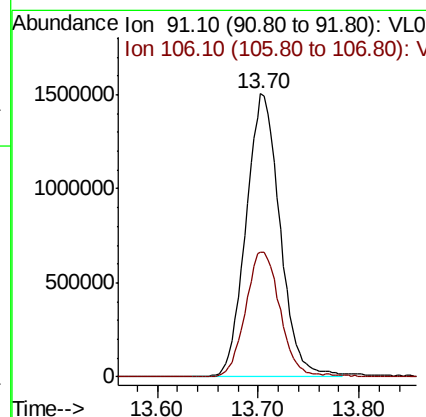
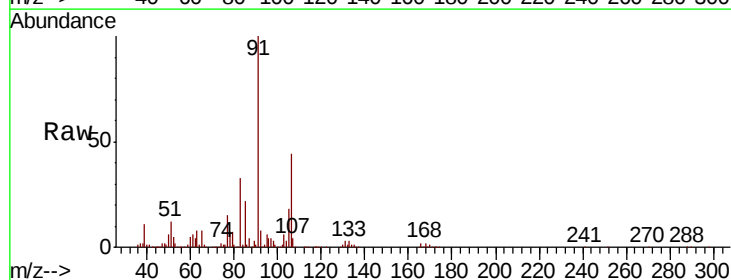
#59  
m/p-Xylene  
Concen: 9.118 ppbv  
RT: 13.01 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Jul 2022 12:51

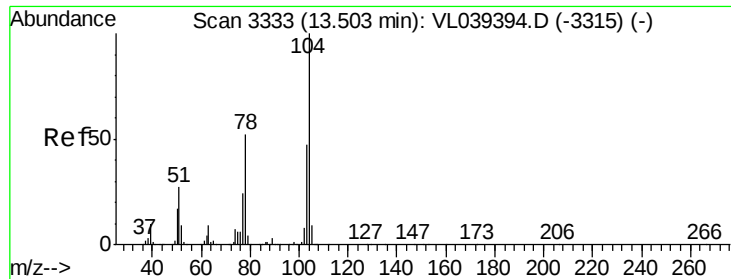
Tot Ion: 91 Resp: 4108038  
Ion Ratio Lower Upper  
91 100  
106 79.2 35.4 53.2#



#60  
o-Xylene  
Concen: 8.228 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. 0.04 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

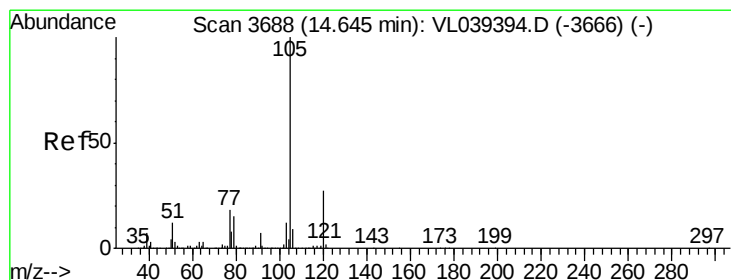
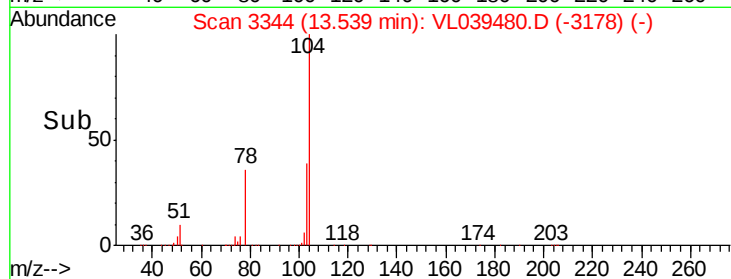
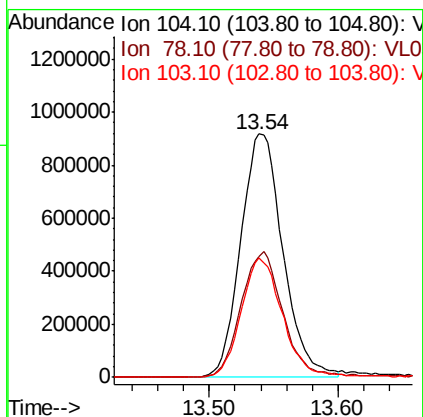
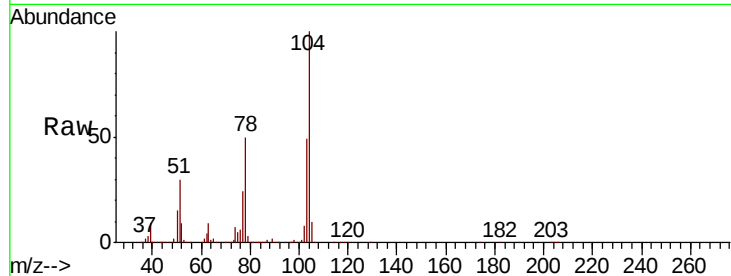
Tgt Ion: 91 Resp: 3510175  
Ion Ratio Lower Upper  
91 100  
106 45.1 22.4 67.3





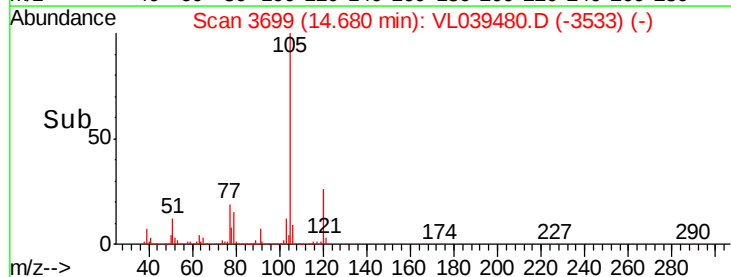
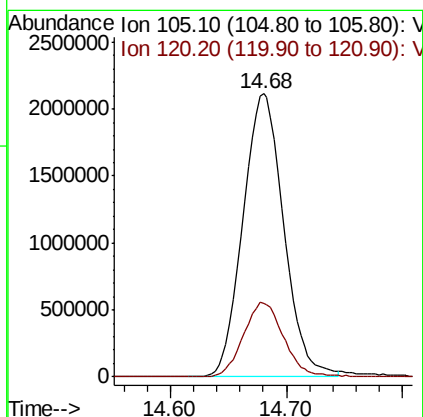
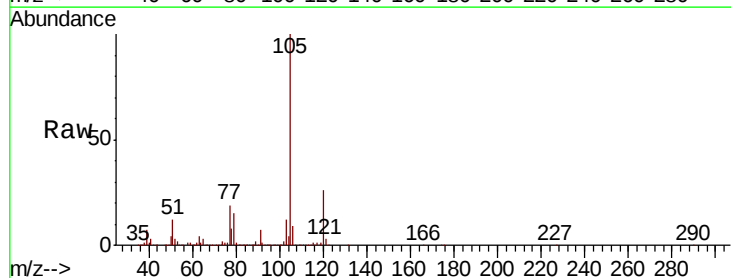
#61  
Stvrene  
Concen: 9.062 ppbv  
RT: 13.54  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Jul 2022 12:51  
VSTDCCC010

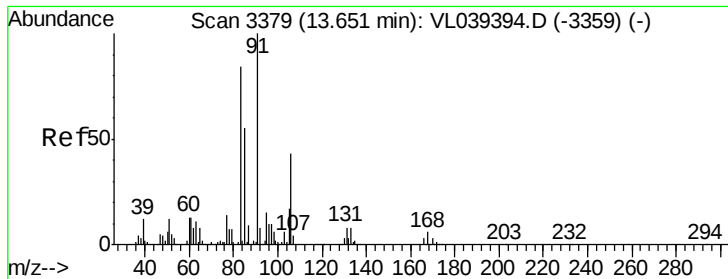
Tot Ion:104 Resp: 2094197  
Ion Ratio Lower Upper  
104 100  
78 52.0 41.2 61.8  
103 48.6 38.7 58.1



#62  
Isopropylbenzene  
Concen: 7.960 ppbv  
RT: 14.68 min Scan# 3699  
Delta R.T. 0.04 min  
Lab File: VL039480.D  
Acq: 19 Jul 2022 12:51

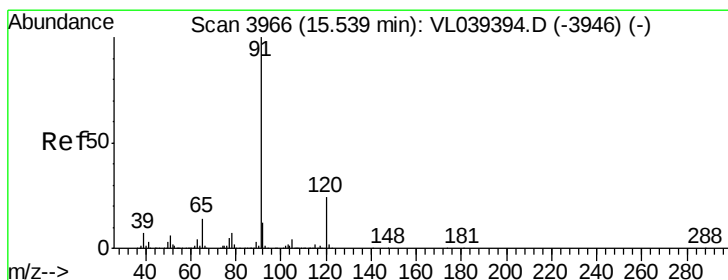
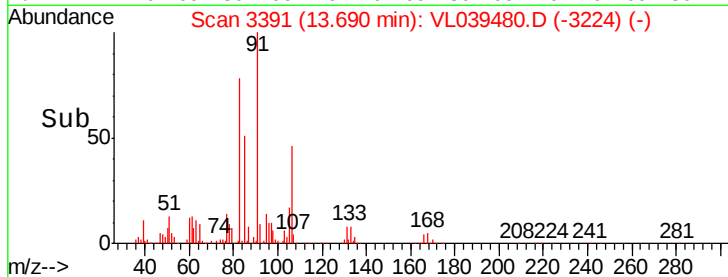
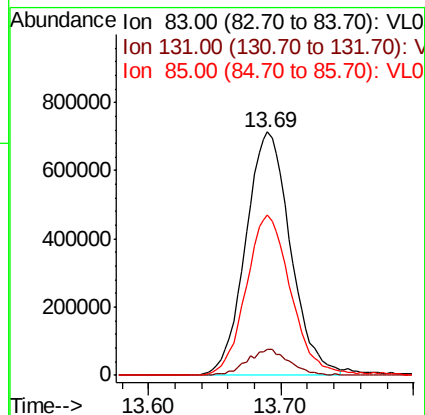
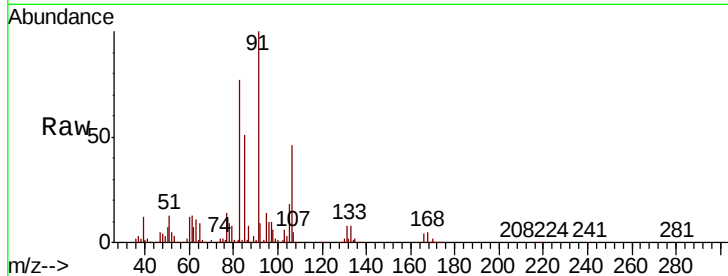
Tgt Ion:105 Resp: 5171737  
Ion Ratio Lower Upper  
105 100  
120 26.2 20.7 31.1





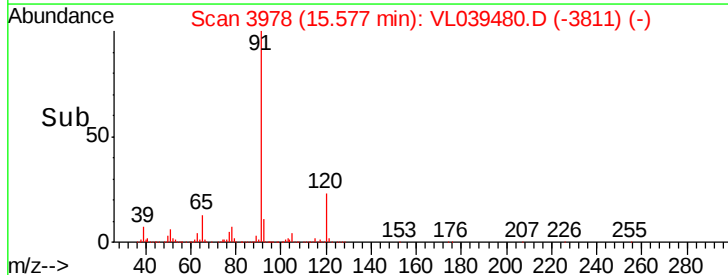
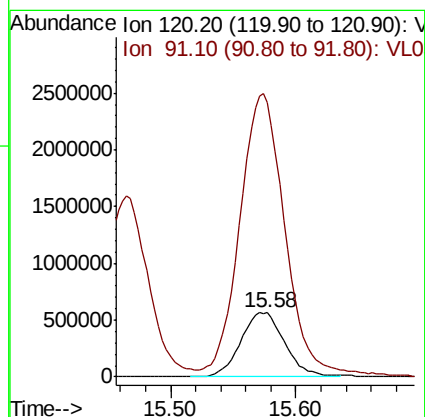
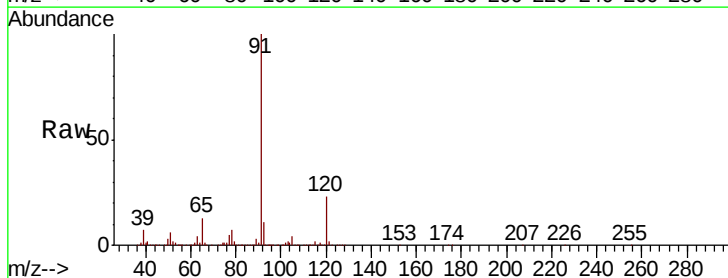
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.484 ppbv  
 RT: 13.69 min  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

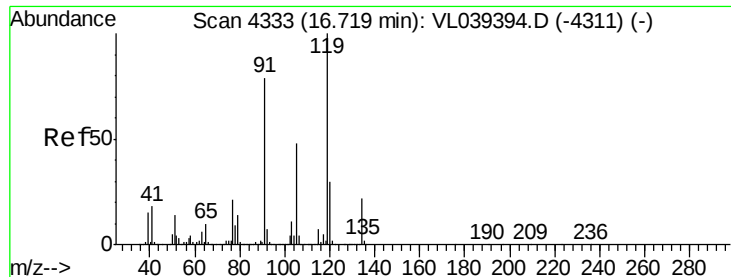
Tot Ion: 83 Resp: 1673647  
 Ion Ratio Lower Upper  
 83 100  
 131 10.4 5.3 15.8  
 85 66.6 33.1 99.5



#64  
 n-propylbenzene  
 Concen: 8.327 ppbv  
 RT: 15.58 min Scan# 3978  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion: 120 Resp: 1371246  
 Ion Ratio Lower Upper  
 120 100  
 91 457.3 367.2 550.8





#65

tert-Butylbenzene

Concen: 8.049 ppbv

RT: 16.76 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 12:51

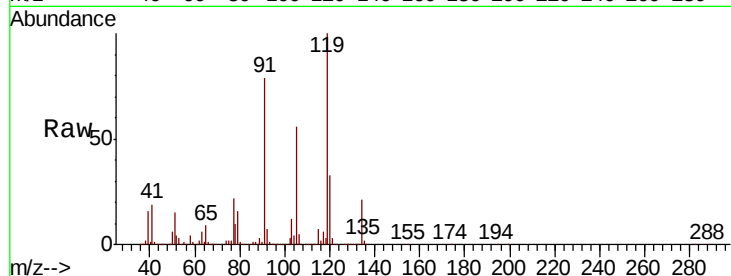
Tot Ion: 119 Resp: 4832317

Ion Ratio Lower Upper

119 100

91 79.0 63.4 95.2

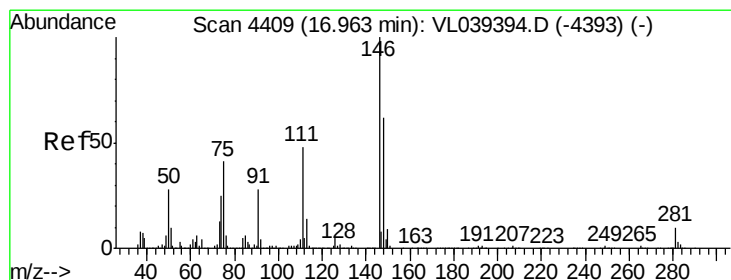
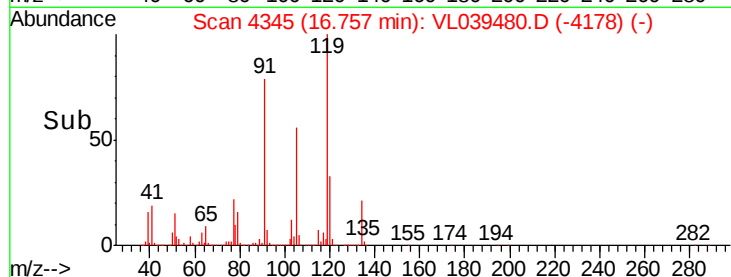
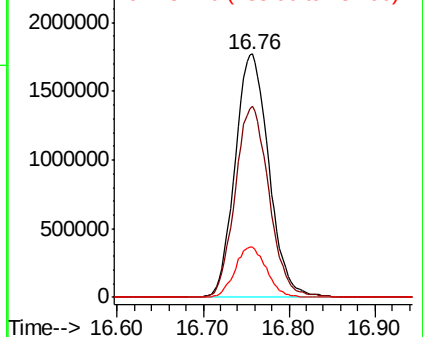
134 19.5 15.9 23.9



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: 9.581 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. 0.04 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

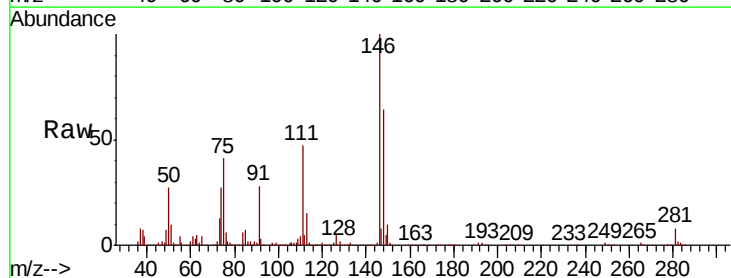
Tgt Ion: 91 Resp: 546564

Ion Ratio Lower Upper

91 100

126 17.8 13.1 19.7

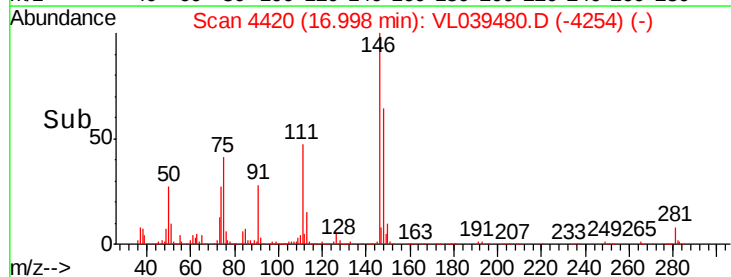
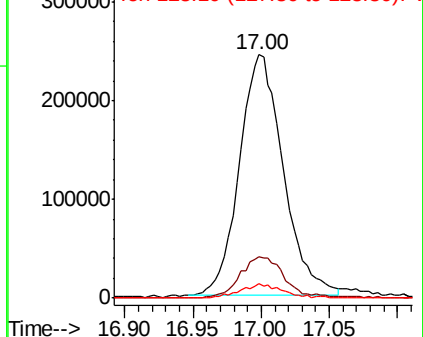
128 5.9 4.4 6.6

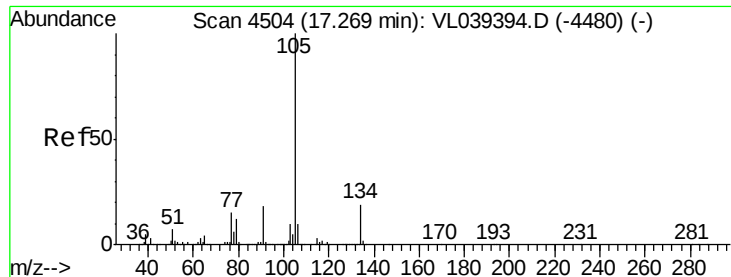


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.102 ppbv

RT: 17.31

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

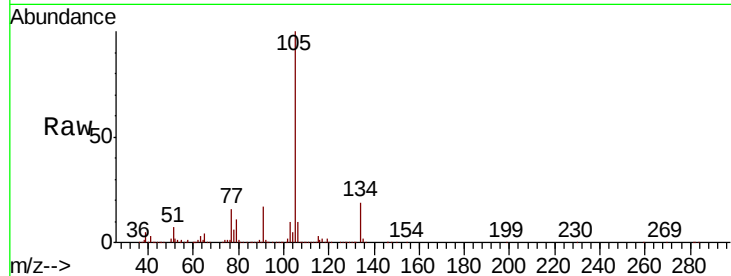
Acq: 19 Jul 2022 12:51

Tot Ion: 105 Resp: 6551703

Ion Ratio Lower Upper

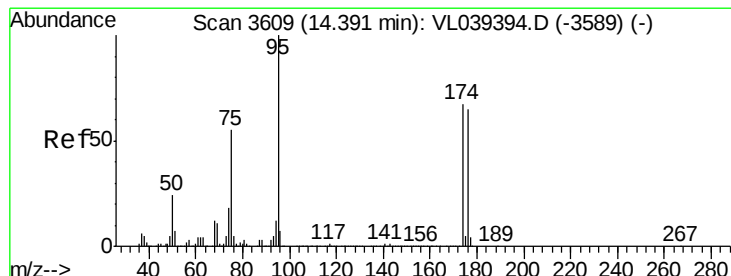
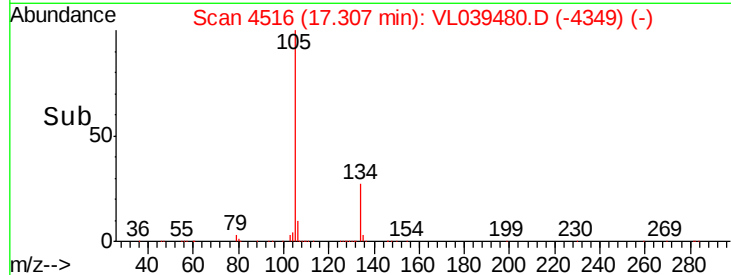
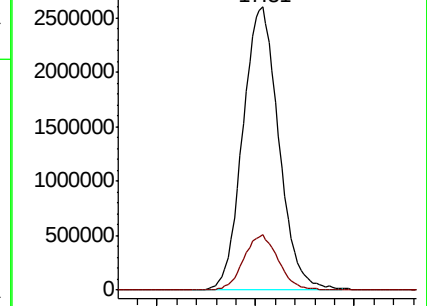
105 100

134 18.8 14.8 22.2



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: 8.429 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.04 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

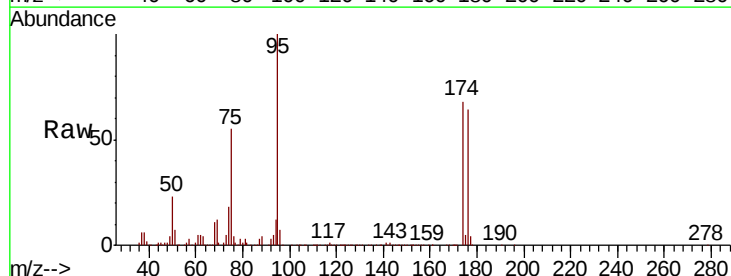
Tgt Ion: 95 Resp: 2474862

Ion Ratio Lower Upper

95 100

174 70.7 55.9 83.9

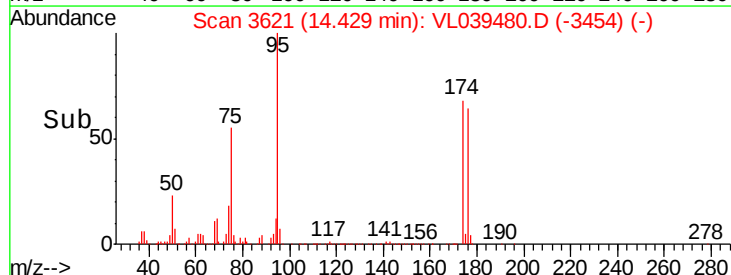
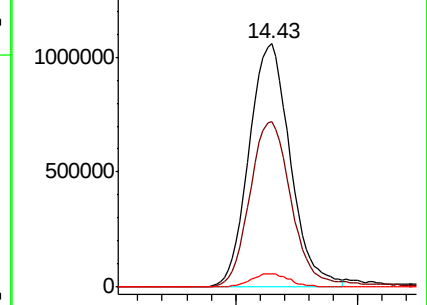
175 5.4 4.2 6.4

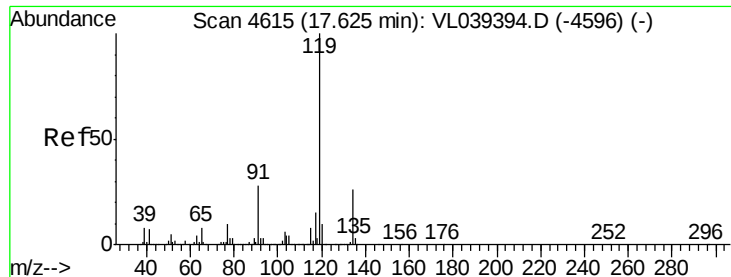


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

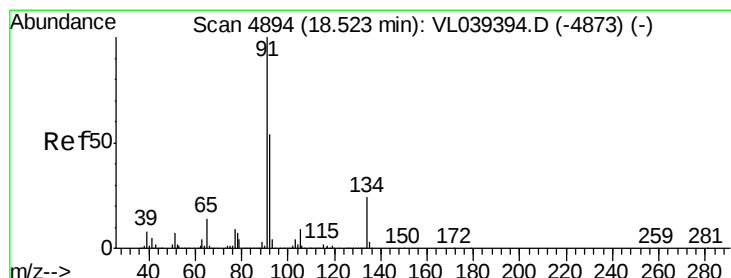
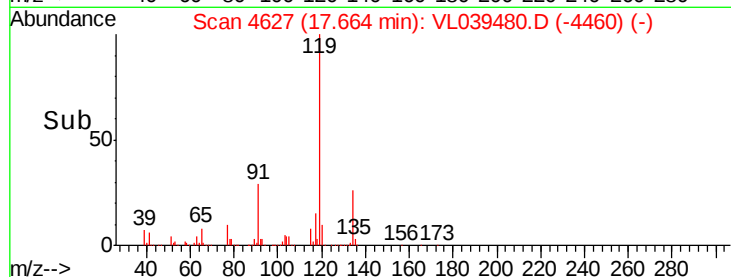
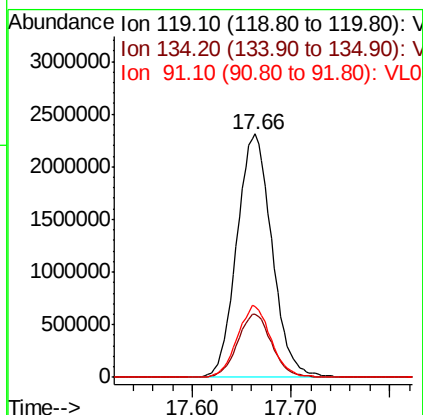
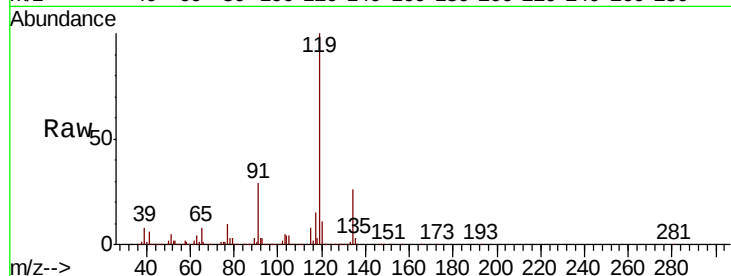
Ion 175.00 (174.70 to 175.70): V





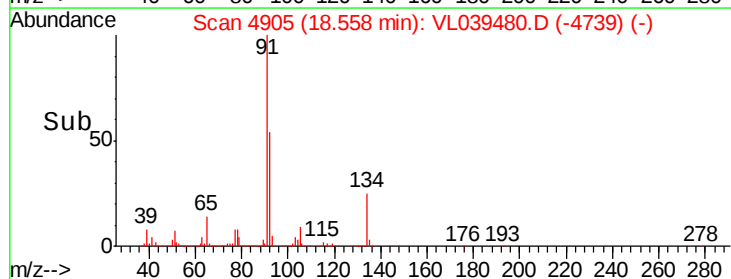
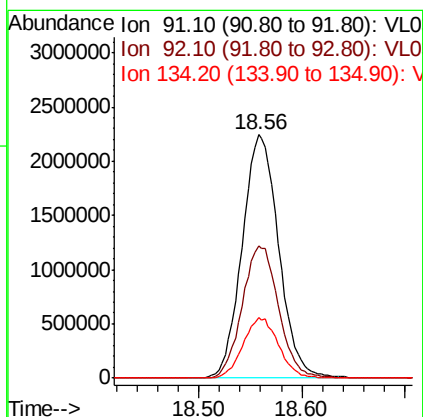
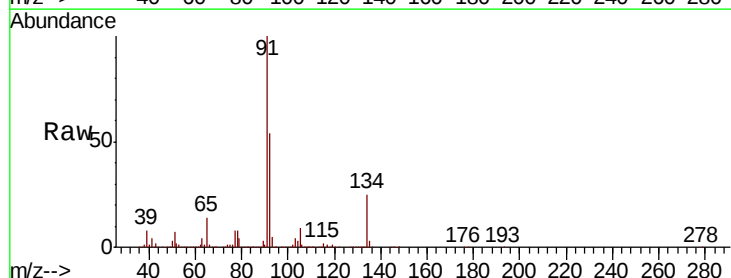
#69  
 p-Isopropyltoluene  
 Concen: 8.290 ppbv  
 RT: 17.66 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

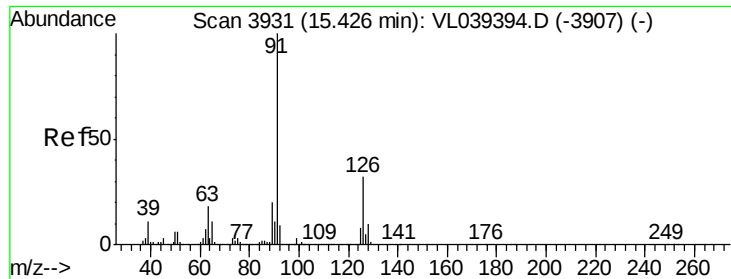
Tot Ion: 119 Resp: 5687768  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 20.3 30.5  
 91 28.4 22.9 34.3



#70  
 n-Butylbenzene  
 Concen: 8.273 ppbv  
 RT: 18.56 min Scan# 4905  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

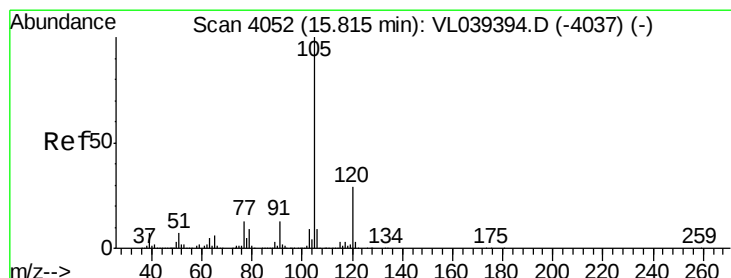
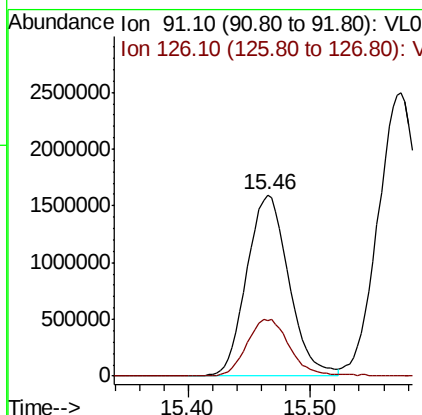
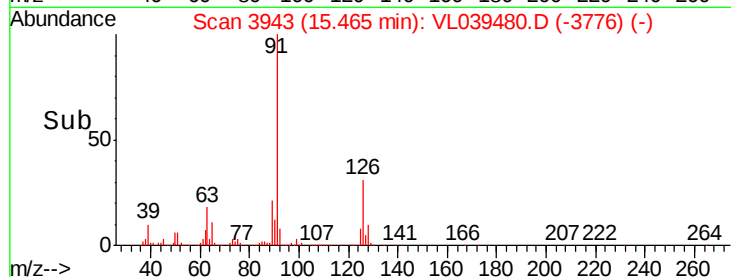
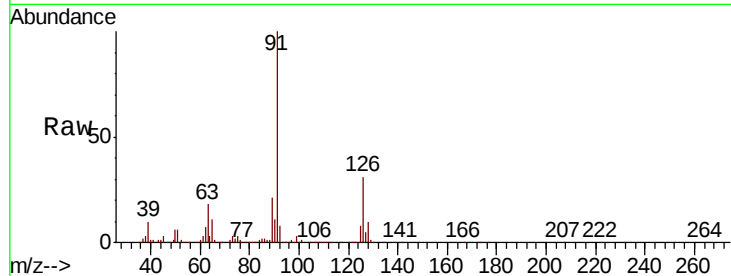
Tgt Ion: 91 Resp: 5509579  
 Ion Ratio Lower Upper  
 91 100  
 92 54.5 43.4 65.2  
 134 24.3 18.9 28.3





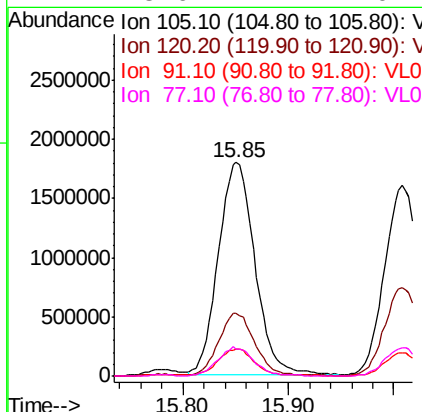
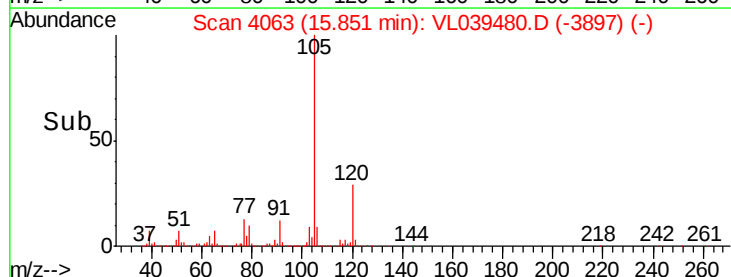
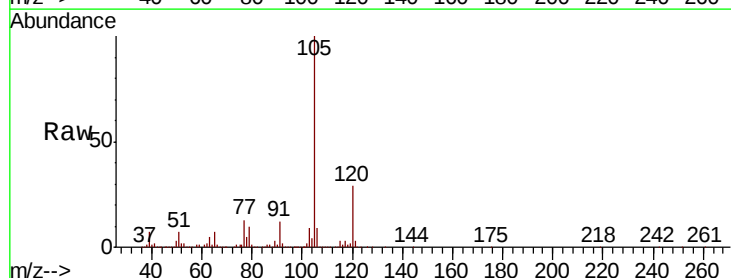
#71  
 2-Chlorotoluene  
 Concen: 8.213 ppbv  
 RT: 15.46  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

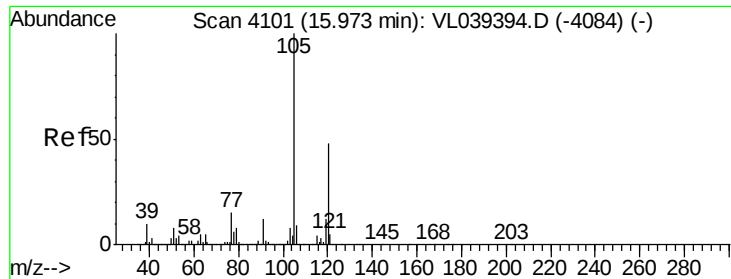
Tot Ion: 91 Resp: 3818672  
 Ion Ratio Lower Upper  
 91 100  
 126 32.7 13.0 51.8



#72  
 4-Ethyltoluene  
 Concen: 8.552 ppbv  
 RT: 15.85 min Scan# 4063  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

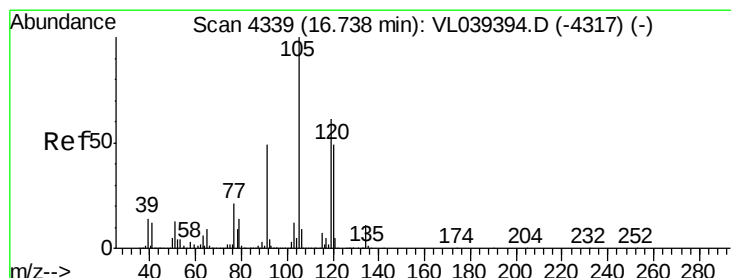
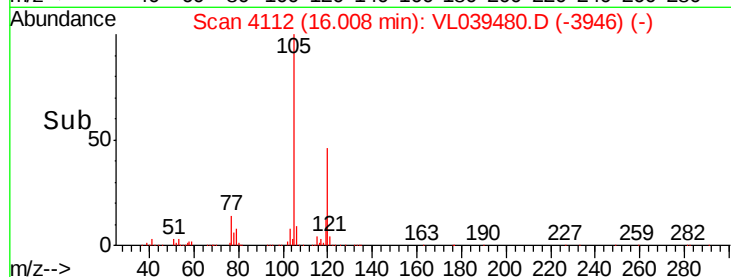
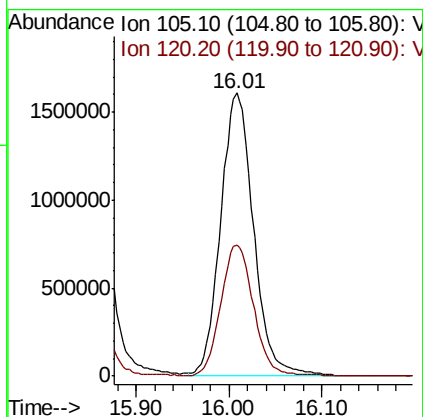
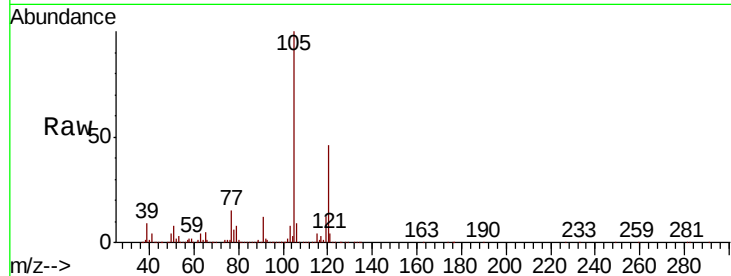
Tgt Ion:105 Resp: 4289743  
 Ion Ratio Lower Upper  
 105 100  
 120 29.7 24.2 36.2  
 91 12.7 10.2 15.4  
 77 13.6 11.1 16.7





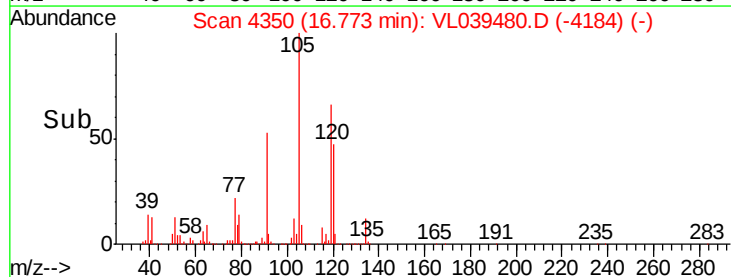
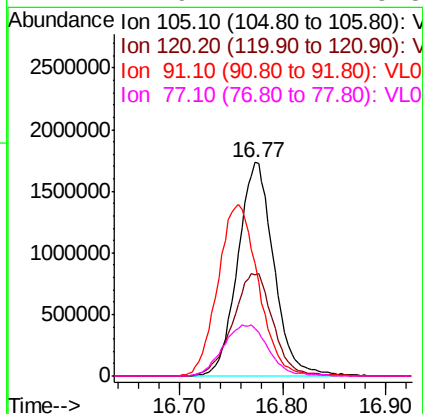
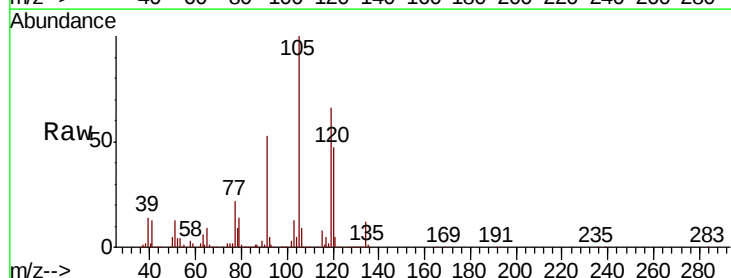
#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.490 ppbv  
 RT: 16.01 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

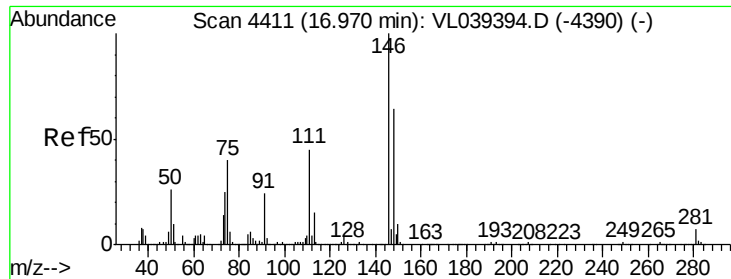
Tot Ion:105 Resp: 3910967  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 38.2 57.4



#74  
 1,2,4-Trimethylbenzene  
 Concen: 8.238 ppbv  
 RT: 16.77 min Scan# 4350  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

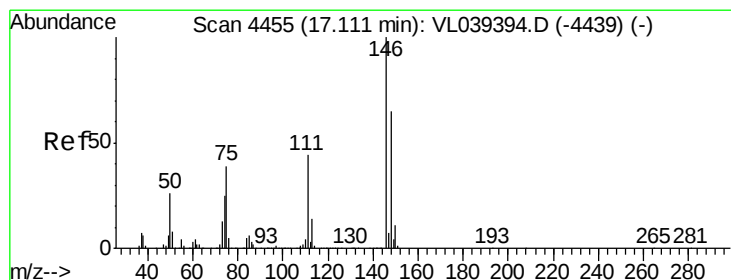
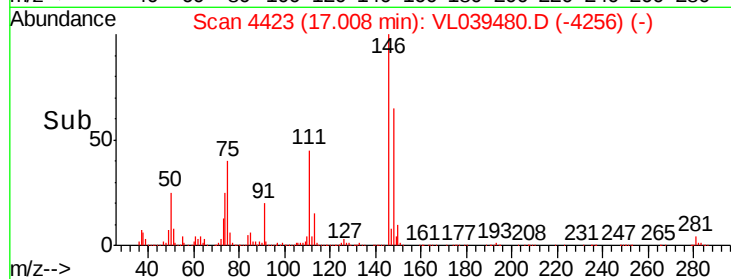
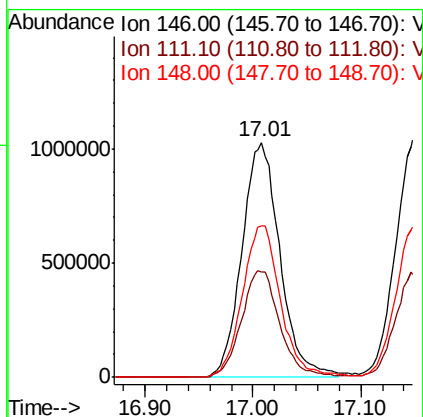
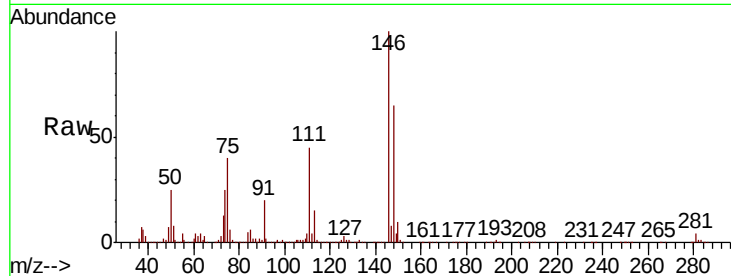
Tgt Ion:105 Resp: 4198430  
 Ion Ratio Lower Upper  
 105 100  
 120 47.3 39.5 59.3  
 91 52.2 39.2 58.8  
 77 21.9 17.2 25.8





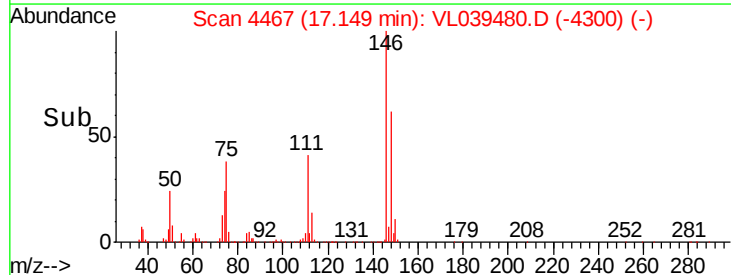
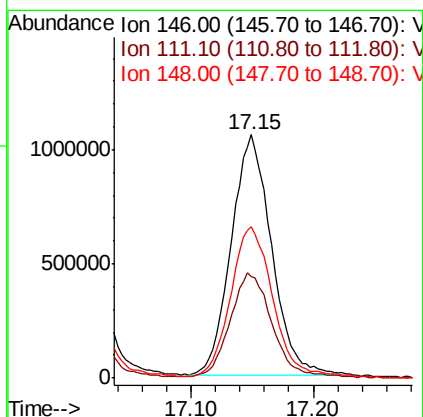
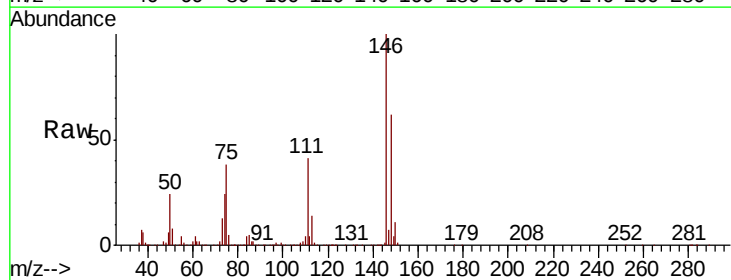
#75  
 1,3-Dichlorobenzene  
 Concen: 8.283 ppbv  
 RT: 17.01 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

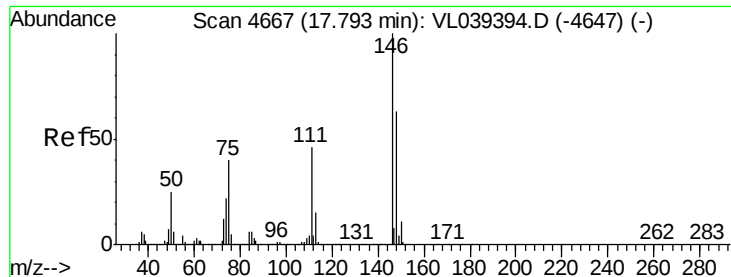
Tot Ion:146 Resp: 2517939  
 Ion Ratio Lower Upper  
 146 100  
 111 46.0 22.9 68.7  
 148 65.1 32.1 96.5



#76  
 1,4-Dichlorobenzene  
 Concen: 7.992 ppbv  
 RT: 17.15 min Scan# 4467  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

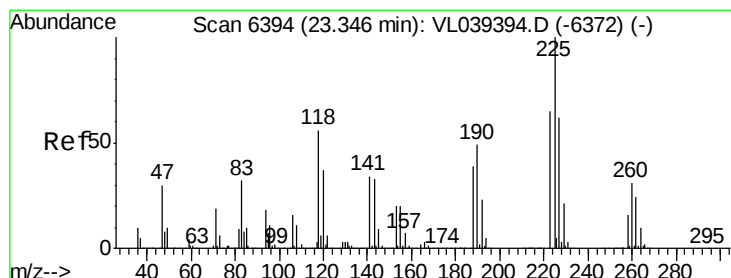
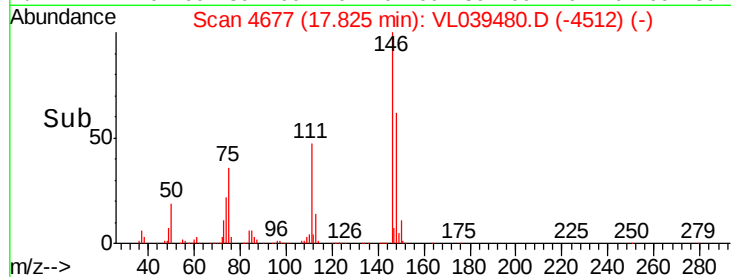
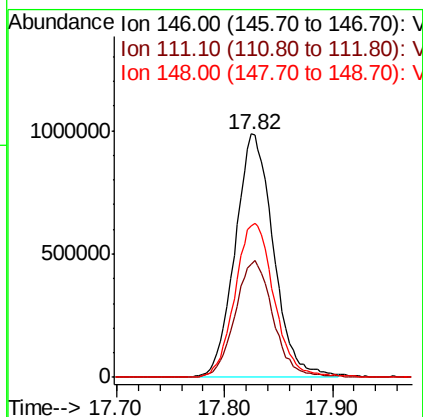
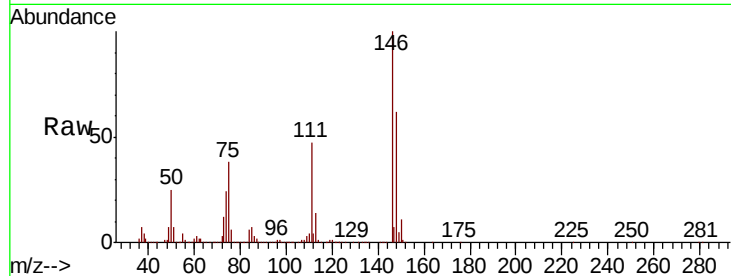
Tgt Ion:146 Resp: 2408020  
 Ion Ratio Lower Upper  
 146 100  
 111 45.9 22.9 68.8  
 148 66.7 33.6 100.8





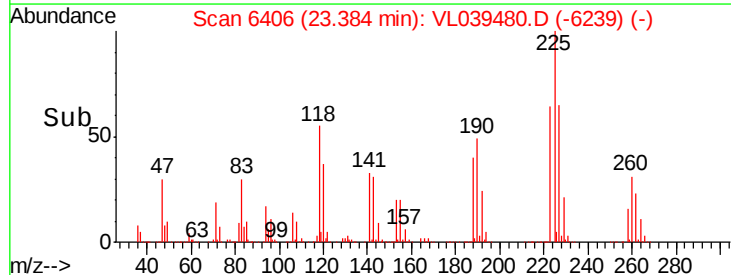
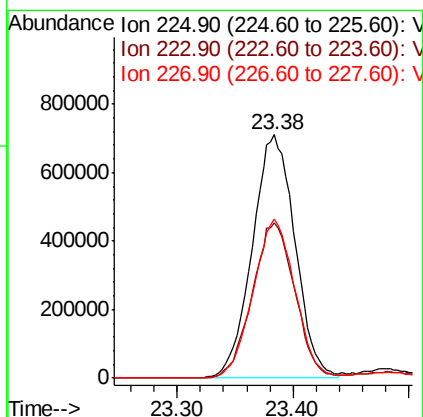
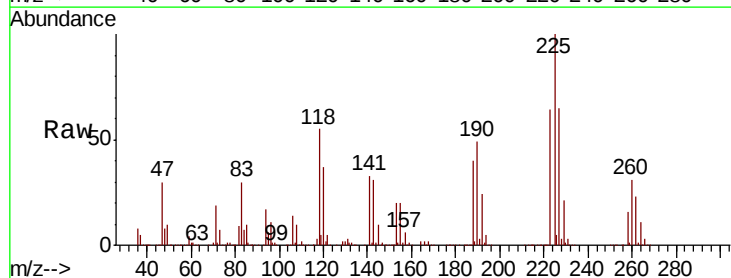
#77  
 1,2-Dichlorobenzene  
 Concen: 8.062 ppbv  
 RT: 17.82 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VSTDCCC010  
 Acq: 19 Jul 2022 12:51

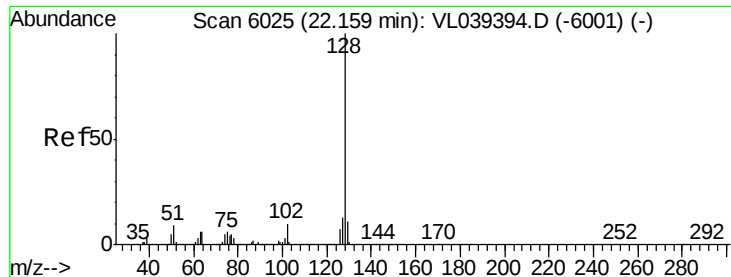
Tot Ion:146 Resp: 2429253  
 Ion Ratio Lower Upper  
 146 100  
 111 47.9 23.8 71.5  
 148 64.7 32.3 96.8



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 7.503 ppbv  
 RT: 23.38 min Scan# 6406  
 Delta R.T. 0.04 min  
 Lab File: VL039480.D  
 Acq: 19 Jul 2022 12:51

Tgt Ion:225 Resp: 1818269  
 Ion Ratio Lower Upper  
 225 100  
 223 63.6 51.8 77.6  
 227 64.1 51.4 77.2





#79

Naphthalene

Concen: 9.912 ppbv

RT: 22.20

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 12:51

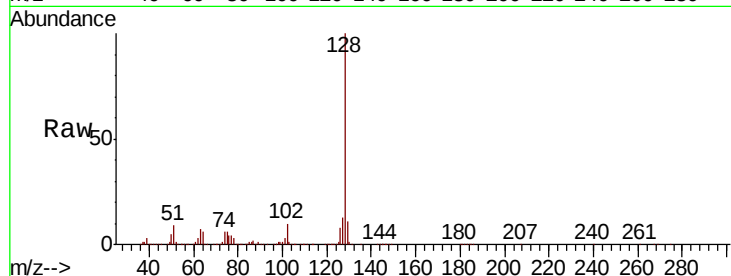
Tot Ion:128 Resp: 3476244

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

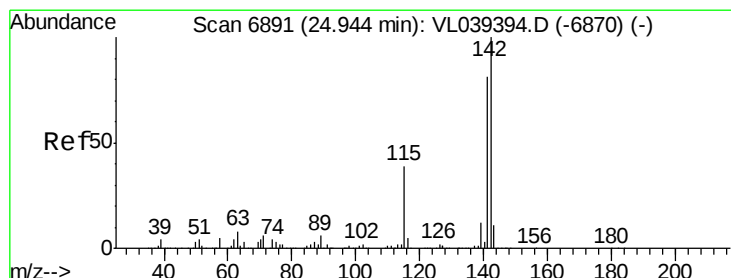
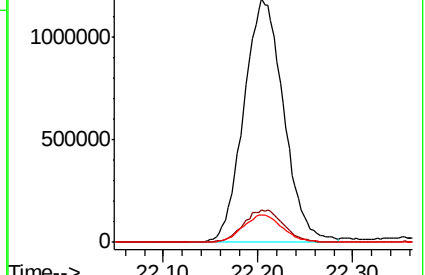
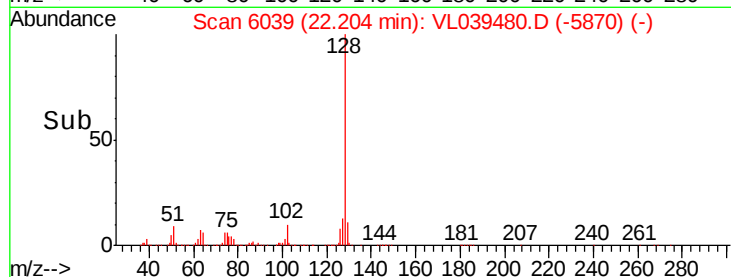
129 11.1 8.8 13.2



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: 11.246 ppbv

RT: 24.98 min Scan# 6901

Delta R.T. 0.03 min

Lab File: VL039480.D

Acq: 19 Jul 2022 12:51

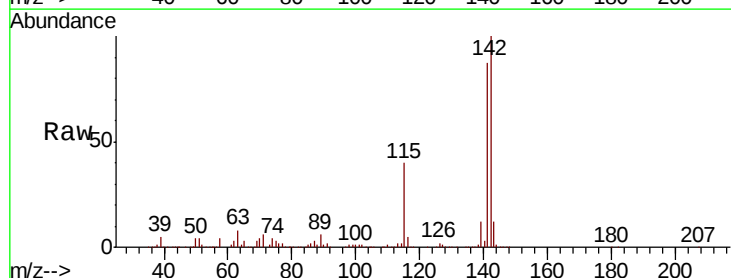
Tgt Ion:142 Resp: 1342409

Ion Ratio Lower Upper

142 100

141 84.0 68.9 103.3

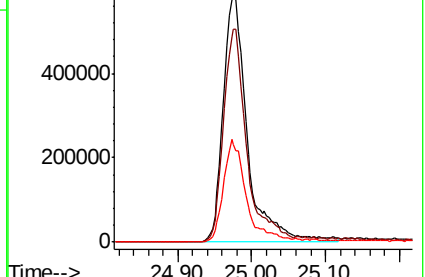
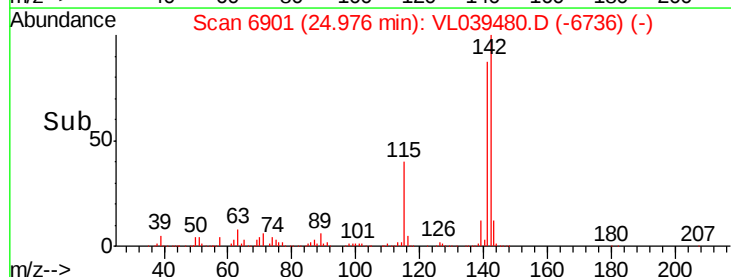
115 40.8 30.0 45.0

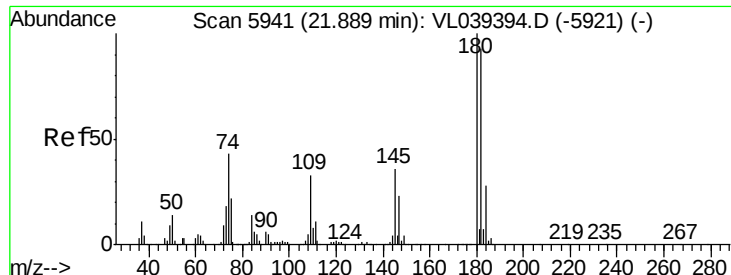


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.847 ppbv  
 RT: 21.94  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Jul 2022 12:51

Tot Ion:180 Resp: 2020970  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 77.1 115.7  
 184 30.7 24.3 36.5

