

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061422\  
 Data File : VL039297.D  
 Acq On : 15 Jun 2022 13:07  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Jun 16 01:15:58 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 01 01:22:18 2022  
 QLast Update : Wed Jun 01 01:22:18 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1348202  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3734188  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 4348184  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2783300  | 7.74     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 77.40% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 1872644  | 7.908  | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 1437810  | 8.382  | ppbv   | 99     |
| 4) Chloromethane               | 3.14 | 50   | 689891   | 7.830  | ppbv   | 96     |
| 5) Vinyl Chloride              | 3.25 | 62   | 737583   | 8.954  | ppbv   | 99     |
| 6) Bromomethane                | 3.47 | 94   | 347023   | 8.564  | ppbv   | 99     |
| 7) Chloroethane                | 3.55 | 64   | 272397   | 9.490  | ppbv   | 91     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1825140  | 8.433  | ppbv   | 95     |
| 9) Propene                     | 3.01 | 41   | 619817   | 8.286  | ppbv   | 99     |
| 10) Heptane                    | 8.11 | 43   | 1645869  | 9.432  | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 1869236  | 8.720  | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1387751  | 9.790  | ppbv   | 98     |
| 13) Ethanol                    | 3.59 | 45   | 41060    | 10.066 | ppbv # | 100    |
| 14) Bromoethene                | 3.74 | 108  | 550085   | 8.632  | ppbv   | 97     |
| 15) Acetone                    | 3.84 | 43   | 1528203  | 10.882 | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 726928   | 9.629  | ppbv   | 94     |
| 17) tert-Butyl alcohol         | 4.28 | 59   | 1260012  | 11.567 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 612542   | 9.633  | ppbv   | 86     |
| 19) Isopropyl Alcohol          | 3.95 | 45   | 677407   | 10.284 | ppbv   | 99     |
| 20) Methylene Chloride         | 4.34 | 84   | 504985   | 8.533  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.40 | 41   | 924344   | 9.757  | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 591390   | 9.666  | ppbv   | 93     |
| 23) Vinyl Acetate              | 5.06 | 43   | 964250   | 8.298  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1359716  | 8.541  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.66 | 43   | 3174637  | 10.029 | ppbv   | 99     |
| 26) Hexane                     | 5.68 | 57   | 1236469  | 8.889  | ppbv   | 89     |
| 27) Carbon Disulfide           | 4.54 | 76   | 1428748  | 9.910  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73   | 1343336  | 8.748  | ppbv   | 99     |
| 29) Chloroform                 | 5.74 | 83   | 1924561  | 8.222  | ppbv   | 98     |
| 30) Cyclohexane                | 7.12 | 84   | 1046299  | 8.954  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 1210305  | 8.533  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97   | 1949482  | 8.511  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.23 | 43   | 1683519  | 8.298  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2036037  | 7.470  | ppbv   | 100    |
| 36) Benzene                    | 6.88 | 78   | 2536134  | 8.366  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1474751  | 7.392  | ppbv   | 97     |
| 38) Trichloroethene            | 7.83 | 130  | 1107596  | 7.954  | ppbv   | 95     |
| 39) 1,2-Dichloropropane        | 7.60 | 63   | 947278   | 7.856  | ppbv   | 98     |
| 40) 1,4-Dioxane                | 7.82 | 88   | 338873   | 8.536  | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.04 | 42   | 957385   | 7.847  | ppbv   | 98     |
| 42) Bromodichloromethane       | 7.78 | 83   | 2089236  | 7.545  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.00 | 69   | 1091193  | 9.241  | ppbv   | 98     |

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 ClientSampleId :  
 VSTDCCC010EC

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 01 01:22:18 2022  
 QLast Update : Wed Jun 01 01:22:18 2022  
 Response via : Initial Calibration

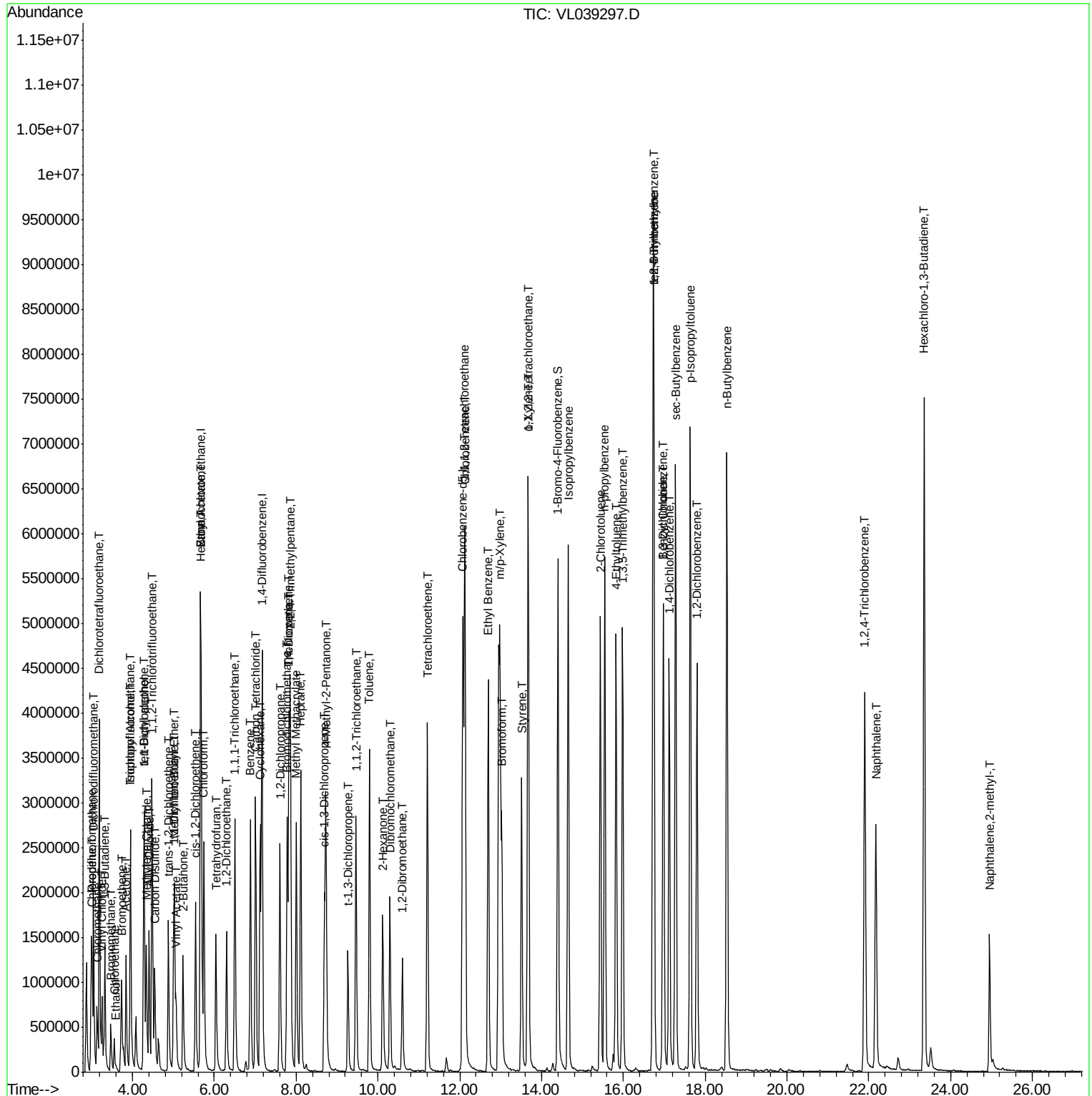
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4304643  | 8.117 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.27  | 75   | 822304   | 6.686 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.69  | 75   | 1172629  | 7.218 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1083217  | 8.610 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.29 | 129  | 1178300  | 5.246 | ppbv   | 98       |
| 49) Bromoform                 | 13.03 | 173  | 1564588  | 8.358 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.73  | 43   | 2699351  | 8.889 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.12 | 43   | 1744217  | 7.382 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.21 | 164  | 1010114  | 8.534 | ppbv   | 96       |
| 53) Toluene                   | 9.79  | 91   | 3043213  | 8.718 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1099310  | 6.503 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 730306   | 3.550 | ppbv # | 13       |
| 57) Chlorobenzene             | 12.13 | 112  | 2350476  | 7.184 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.70 | 91   | 4177331  | 6.975 | ppbv   | 98       |
| 59) m/p-Xylene                | 12.98 | 91   | 3926392  | 7.444 | ppbv # | 40       |
| 60) o-Xylene                  | 13.68 | 91   | 3449180  | 6.959 | ppbv   | 98       |
| 61) Styrene                   | 13.51 | 104  | 2014932  | 7.592 | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.65 | 105  | 5417055  | 7.354 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 2191800  | 7.879 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1428941  | 7.891 | ppbv   | 88       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 4967272  | 7.374 | ppbv   | 96       |
| 66) Benzyl Chloride           | 16.97 | 91   | 316609   | 3.615 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 6814201  | 7.414 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 5933658  | 7.652 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.53 | 91   | 5864101  | 7.368 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4009846  | 7.138 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 4336115  | 7.465 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 3898117  | 7.441 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.74 | 105  | 4251035  | 7.271 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2524161  | 7.628 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 2436722  | 7.380 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2483227  | 7.445 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1998630  | 6.553 | ppbv   | 99       |
| 79) Naphthalene               | 22.17 | 128  | 3670221  | 8.155 | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.95 | 142  | 921244   | 5.509 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.90 | 180  | 1143901  | 4.012 | ppbv # | 100      |

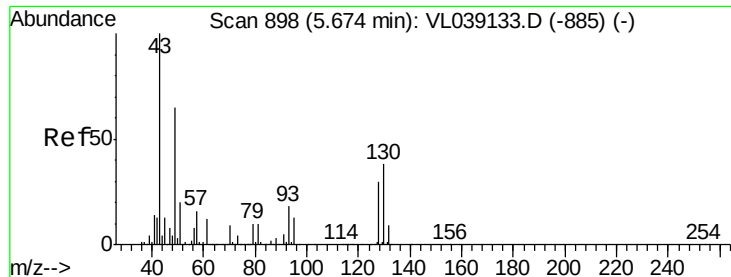
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
VSTDCCC010EC

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jun 01 01:22:18 2022  
QLast Update : Wed Jun 01 01:22:18 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA\_1

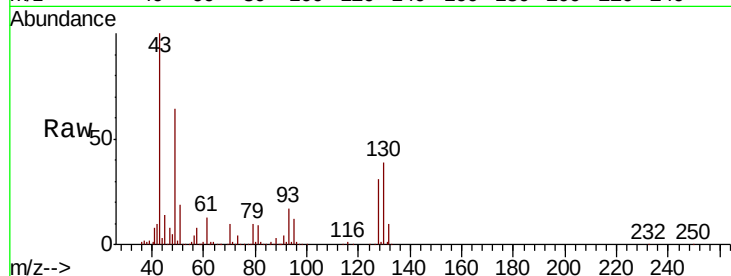
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 15 Jun 2022 13:07

Tot Ion: 49 Resp: 1348202

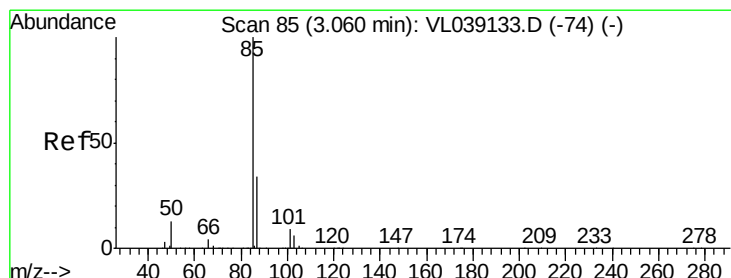
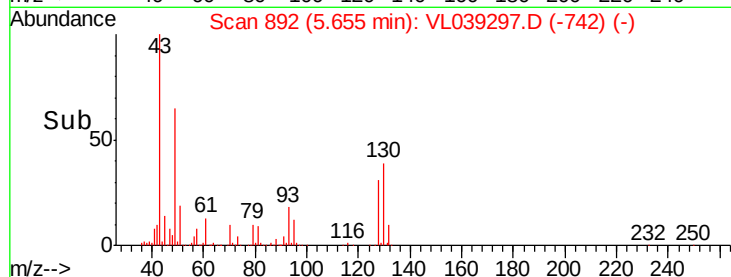
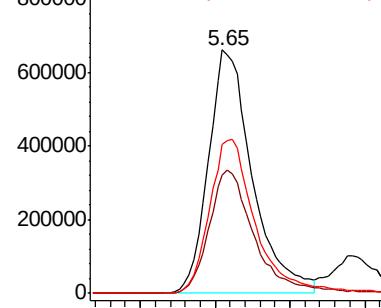
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 52.9  | 24.7  | 74.1  |
| 130 | 67.2  | 31.4  | 94.0  |



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: 7.908 ppbv

RT: 3.04 min Scan# 80

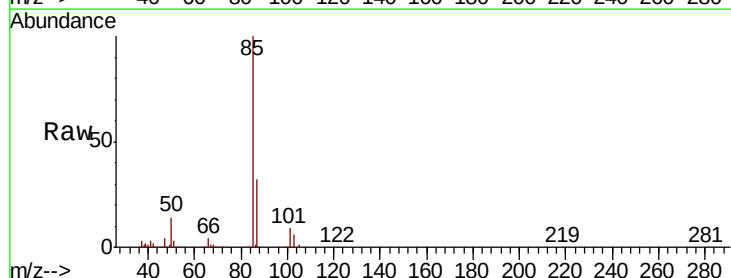
Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

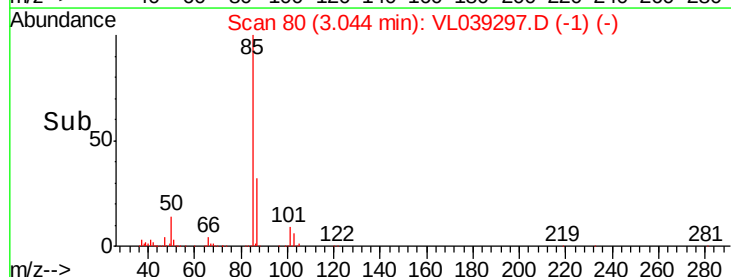
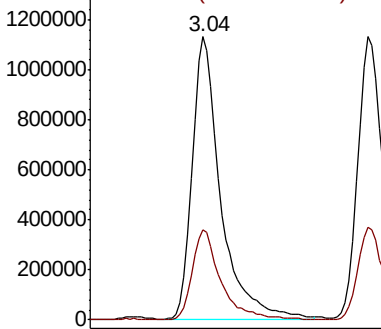
Tgt Ion: 85 Resp: 1872644

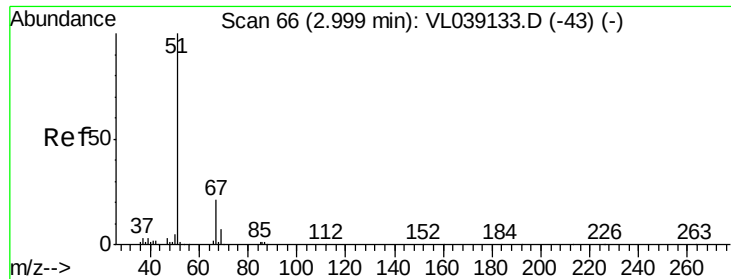
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 31.8  | 26.9  | 40.3  |



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.382 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

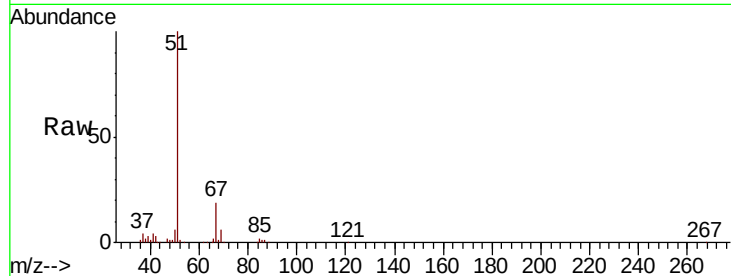
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 51 Resp: 1437810

Ion Ratio Lower Upper

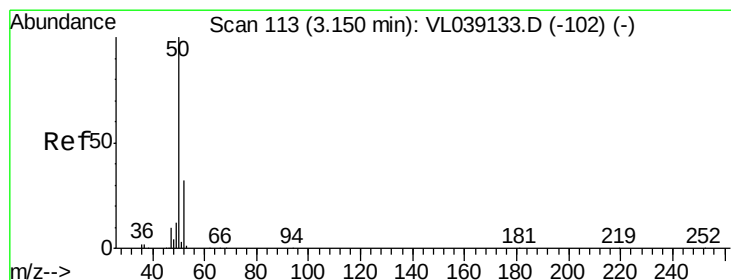
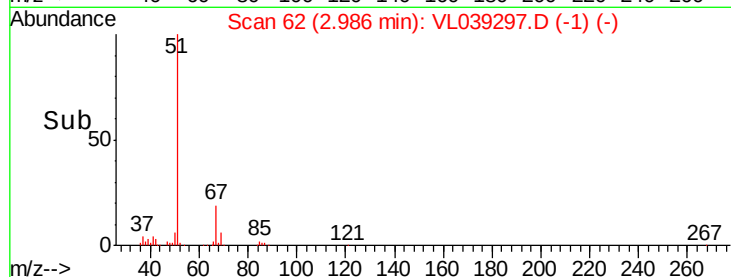
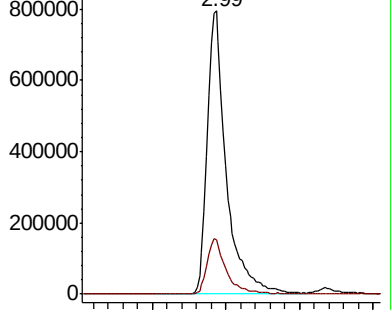
51 100

67 19.6 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 7.830 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039297.D

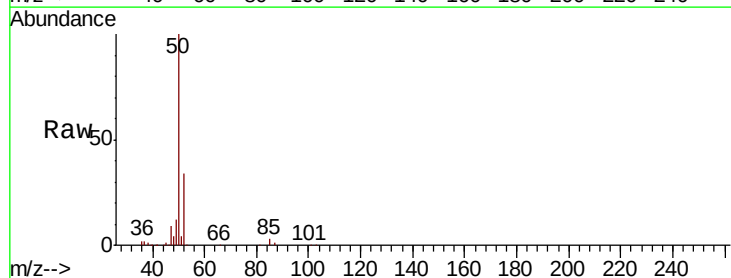
Acq: 15 Jun 2022 13:07

Tgt Ion: 50 Resp: 689891

Ion Ratio Lower Upper

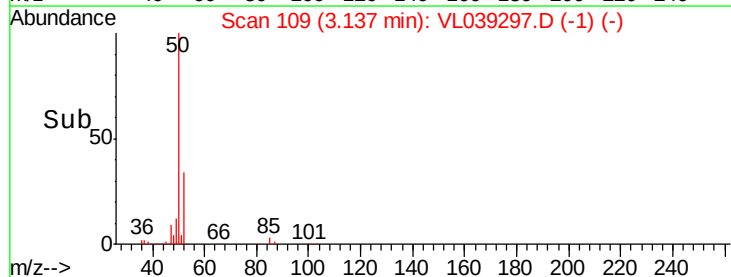
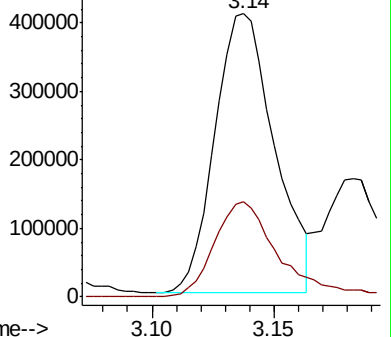
50 100

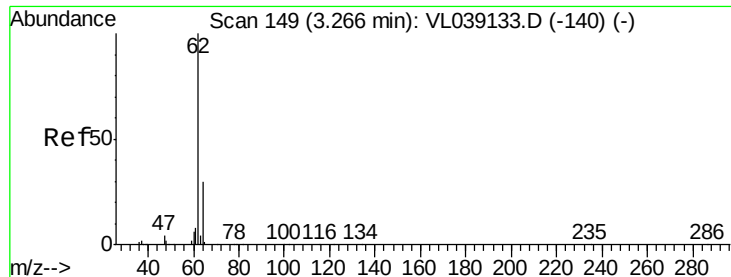
52 34.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.954 ppbv

RT: 3.25 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

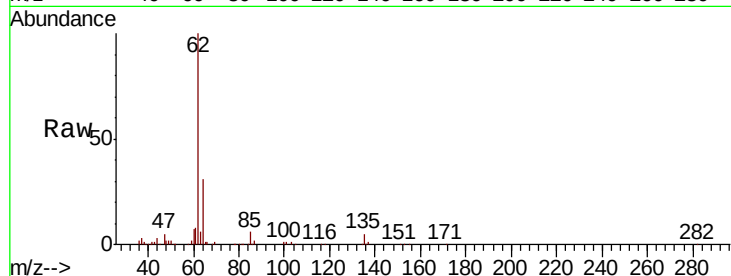
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 62 Resp: 737583

Ion Ratio Lower Upper

62 100

64 30.6 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

400000

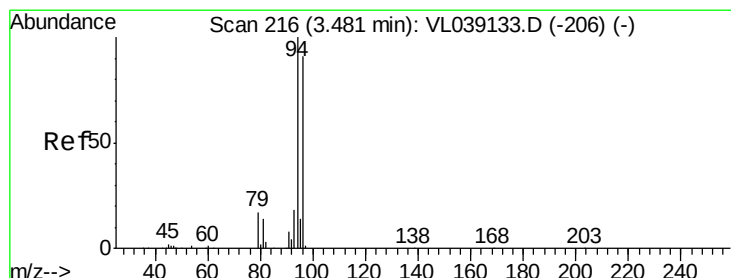
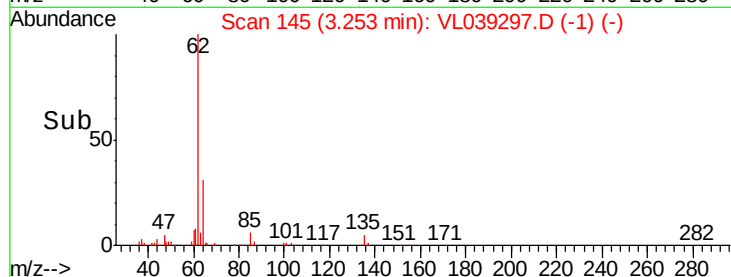
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.564 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL039297.D

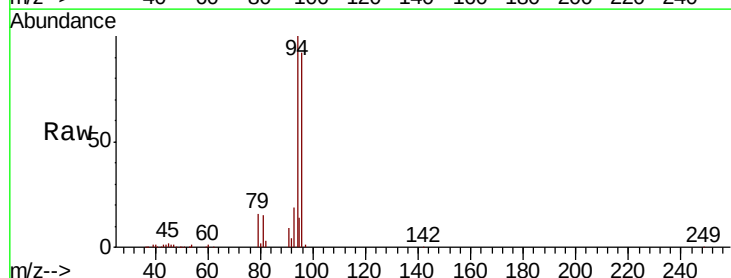
Acq: 15 Jun 2022 13:07

Tgt Ion: 94 Resp: 347023

Ion Ratio Lower Upper

94 100

96 92.3 73.0 109.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

200000

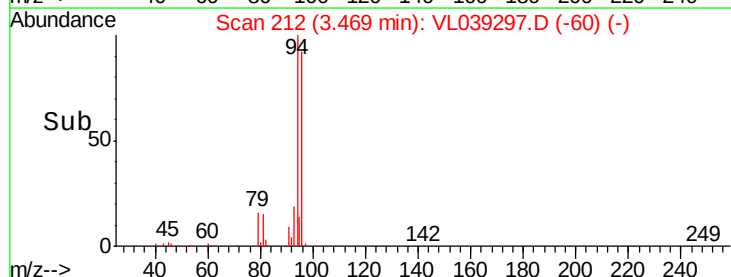
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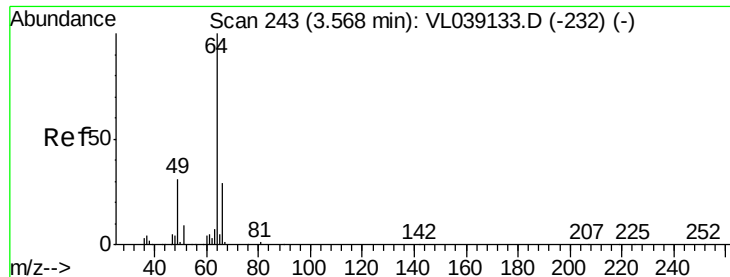
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.490 ppbv

RT: 3.55 Instrument: MSVOA\_L

Delta R.T.

Lab File: ClientSampleId:

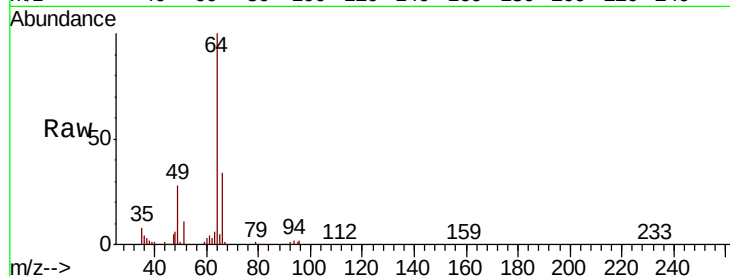
Acq: 15 Jun 2022 13:07

Tot Ion: 64 Resp: 272397

Ion Ratio Lower Upper

64 100

66 34.4 23.6 35.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

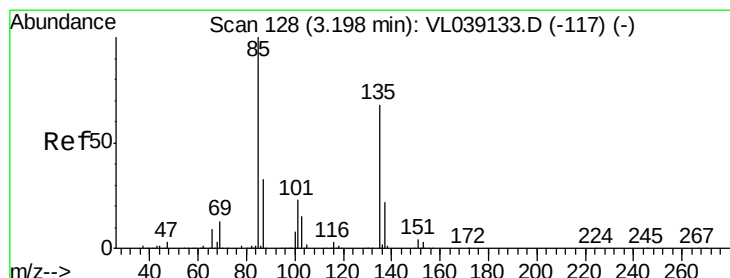
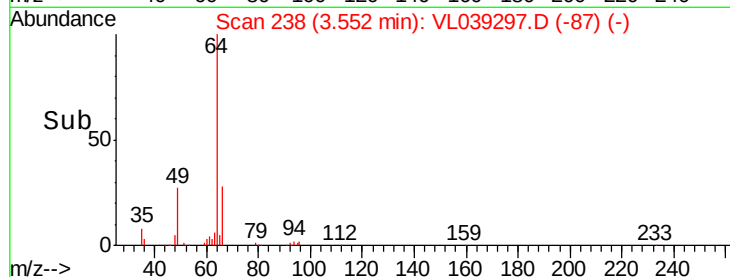
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.433 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.02 min

Lab File: VL039297.D

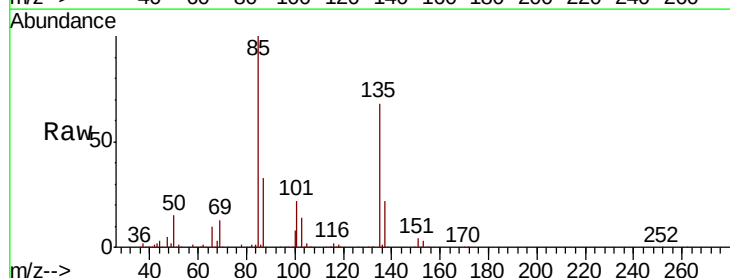
Acq: 15 Jun 2022 13:07

Tgt Ion: 85 Resp: 1825140

Ion Ratio Lower Upper

85 100

135 72.6 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

1200000

1000000

800000

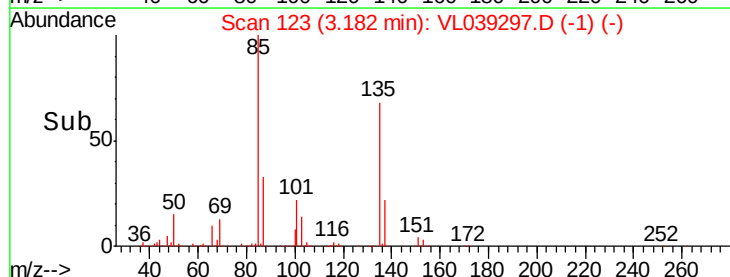
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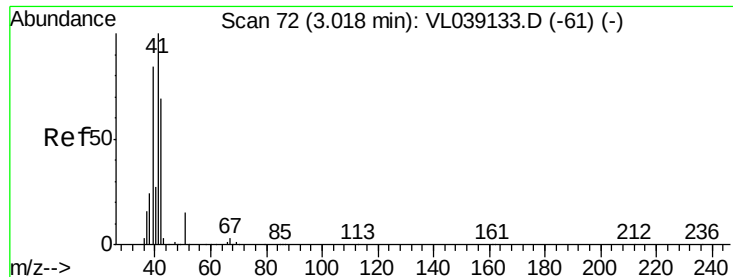
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200000

0

Time-->





#9

Propene

Concen: 8.286 ppbv

RT: 3.01

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

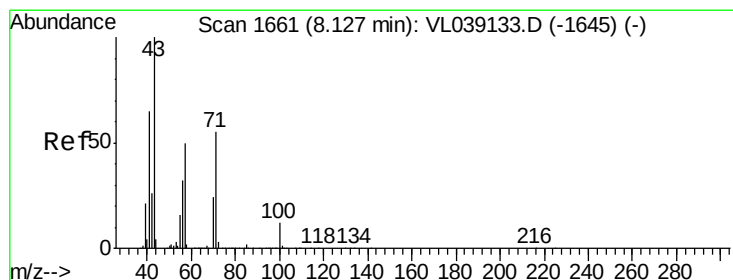
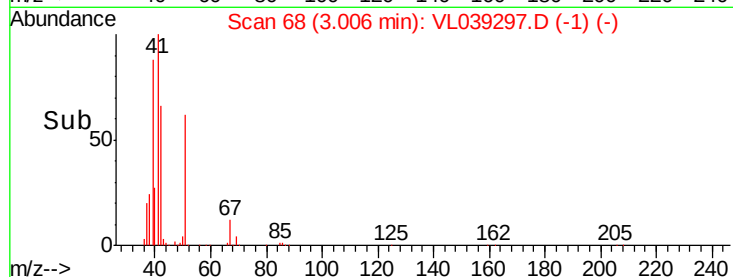
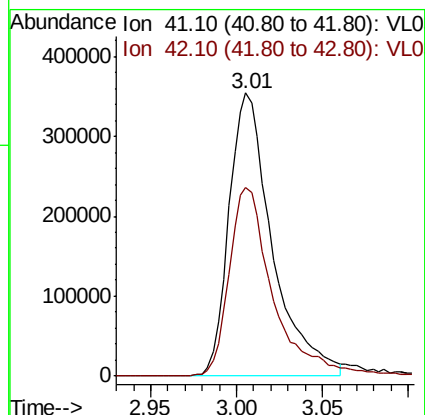
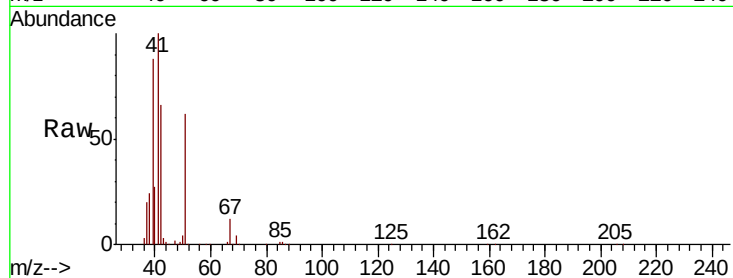
Acq: 15 Jun 2022 13:07

Tot Ion: 41 Resp: 619817

Ion Ratio Lower Upper

41 100

42 68.5 55.4 83.2



#10

Heptane

Concen: 9.432 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL039297.D

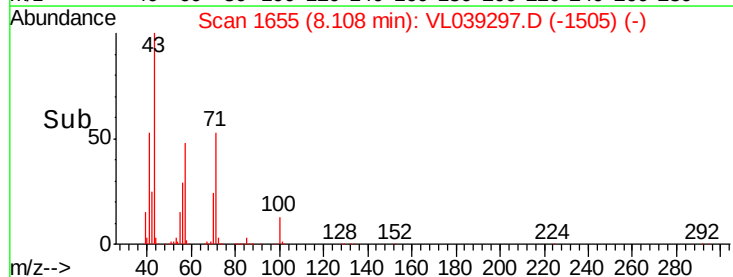
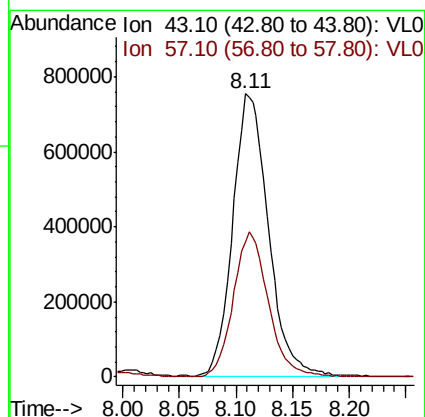
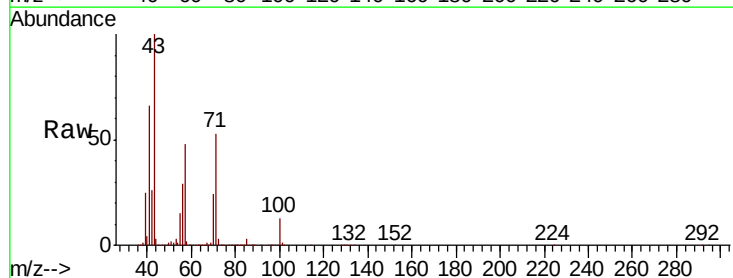
Acq: 15 Jun 2022 13:07

Tgt Ion: 43 Resp: 1645869

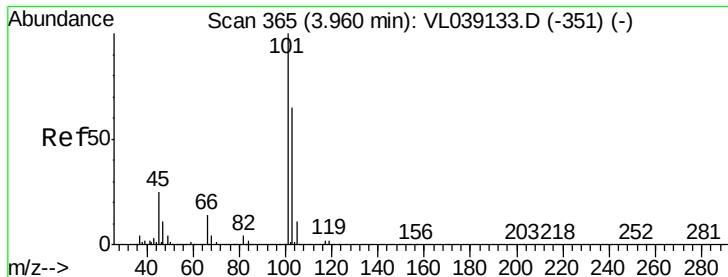
Ion Ratio Lower Upper

43 100

57 50.6 41.4 62.2







#11

Trichlorofluoromethane

Concen: 8.720 ppbv

RT: 3.94 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

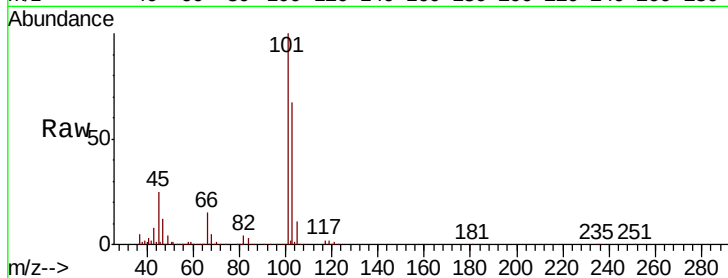
Acq: 15 Jun 2022 13:07

Tot Ion:101 Resp: 1869236

Ion Ratio Lower Upper

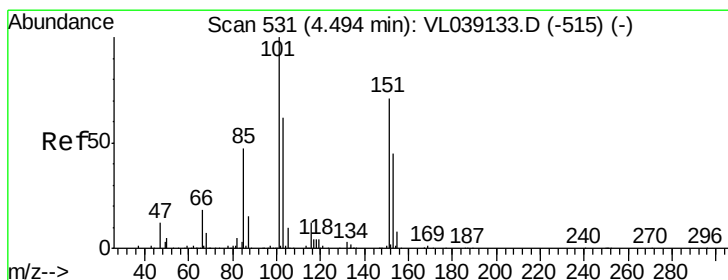
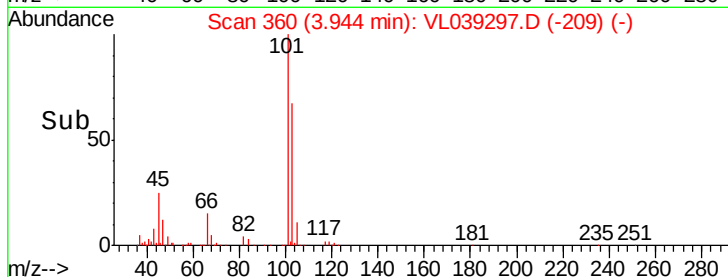
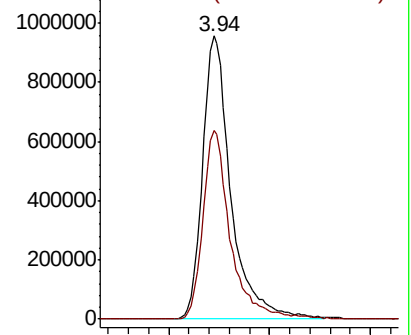
101 100

103 66.5 51.7 77.5



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: 9.790 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.02 min

Lab File: VL039297.D

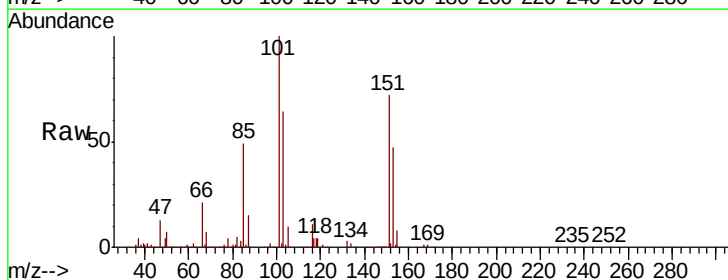
Acq: 15 Jun 2022 13:07

Tgt Ion:101 Resp: 1387751

Ion Ratio Lower Upper

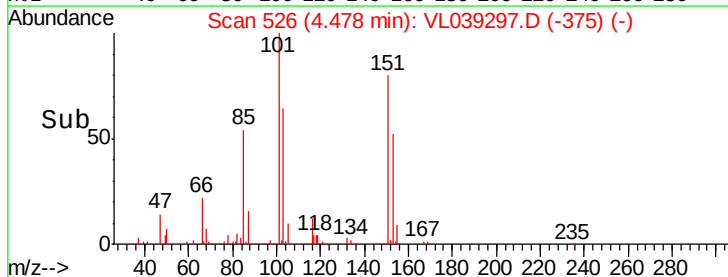
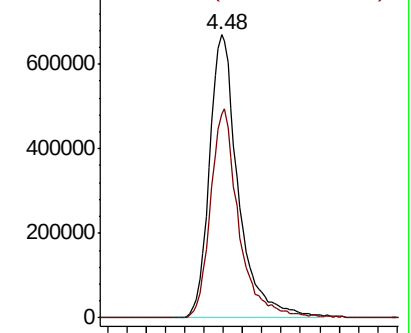
101 100

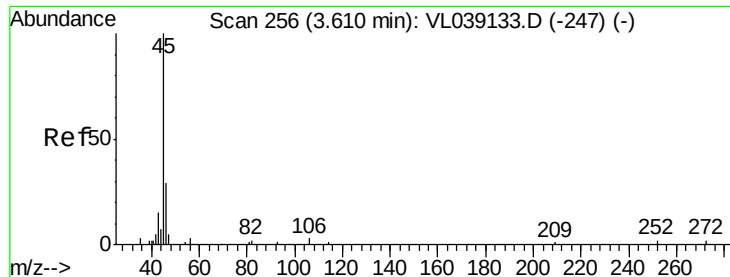
151 72.6 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

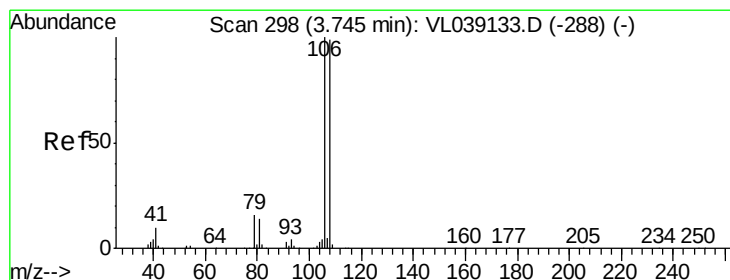
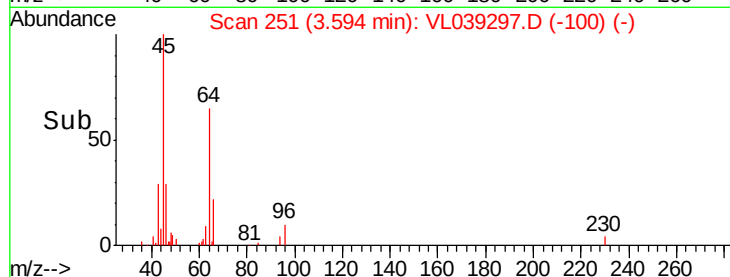
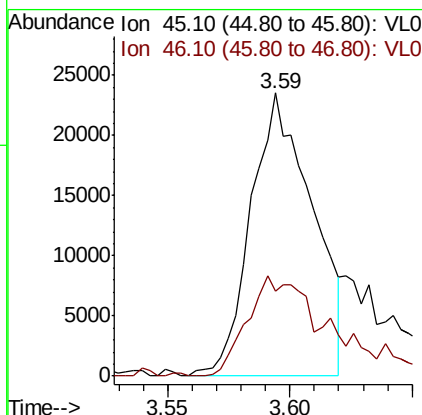
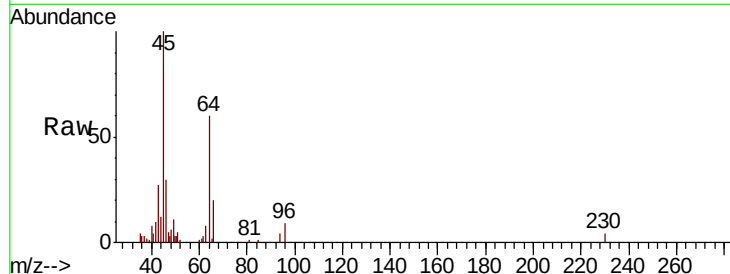
Ion 151.00 (150.70 to 151.70): V





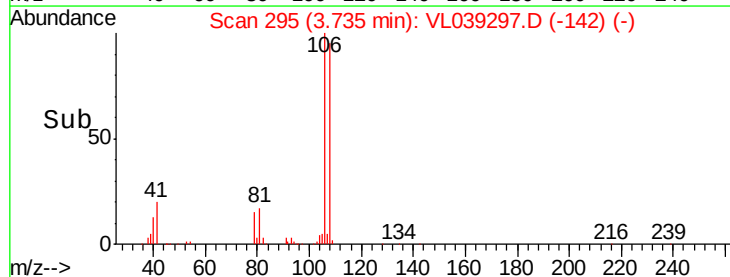
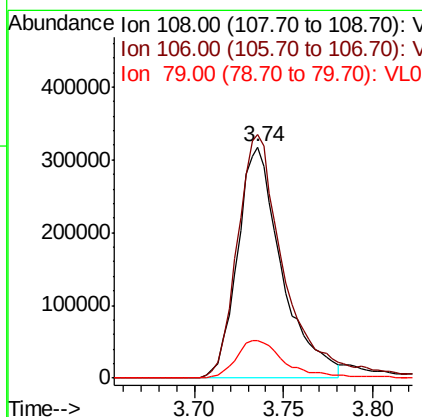
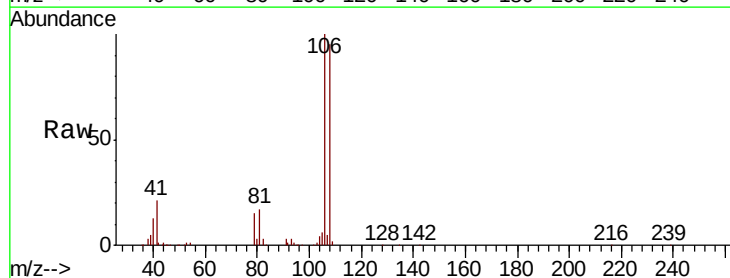
#13  
Ethanol  
Concen: 10.066 ppbv  
RT: 3.59  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 15 Jun 2022 13:07

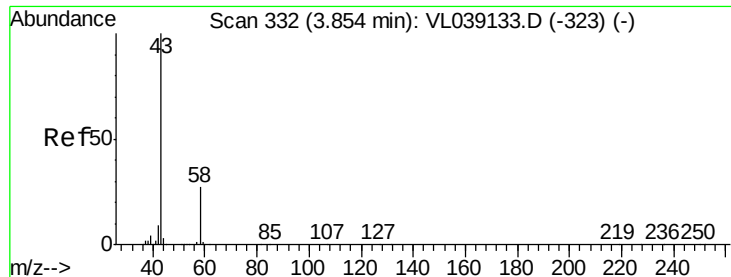
Tot Ion: 45 Resp: 41060  
Ion Ratio Lower Upper  
45 100  
46 52.5 0.0 0.0#



#14  
Bromoethene  
Concen: 8.632 ppbv  
RT: 3.74 min Scan# 295  
Delta R.T.: -0.01 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

Tgt Ion: 108 Resp: 550085  
Ion Ratio Lower Upper  
108 100  
106 113.9 88.4 132.6  
79 18.4 13.4 20.2





#15

Acetone

Concen: 10.882 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

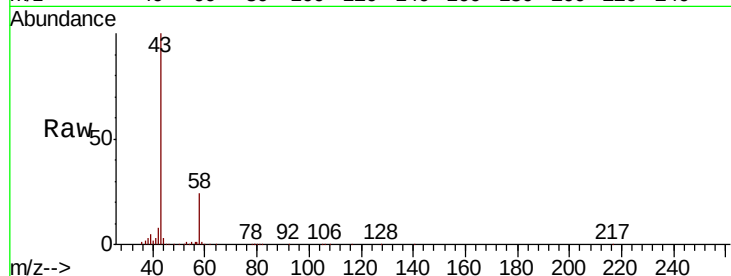
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 43 Resp: 1528203

Ion Ratio Lower Upper

43 100

58 26.8 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

800000

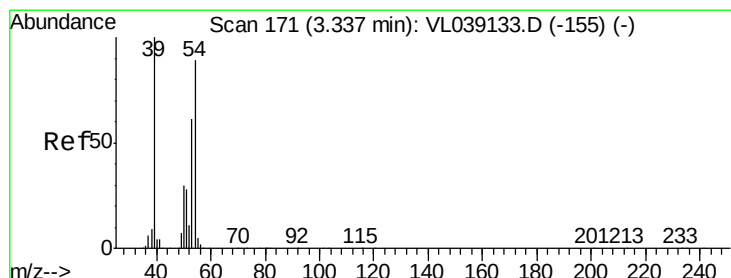
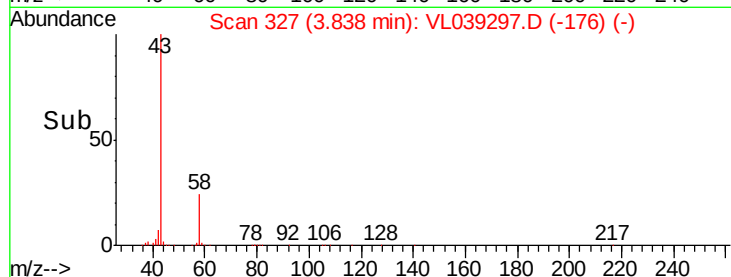
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.629 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.01 min

Lab File: VL039297.D

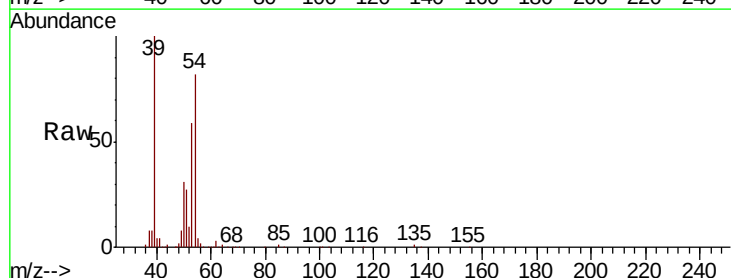
Acq: 15 Jun 2022 13:07

Tgt Ion: 39 Resp: 726928

Ion Ratio Lower Upper

39 100

54 77.1 65.8 98.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

400000

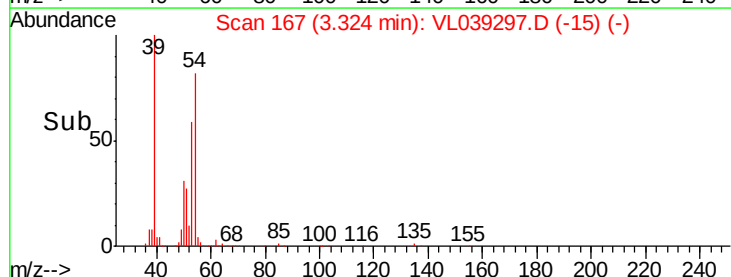
300000

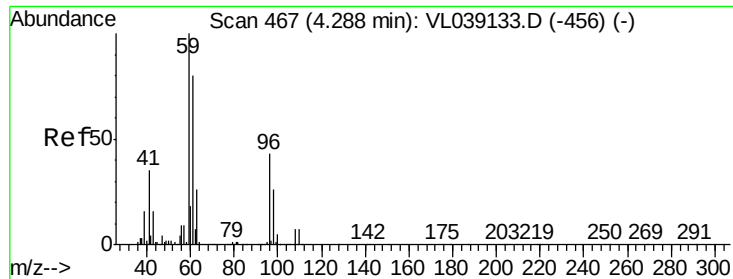
200000

100000

0

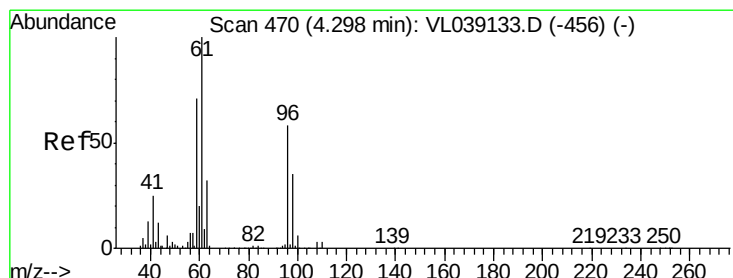
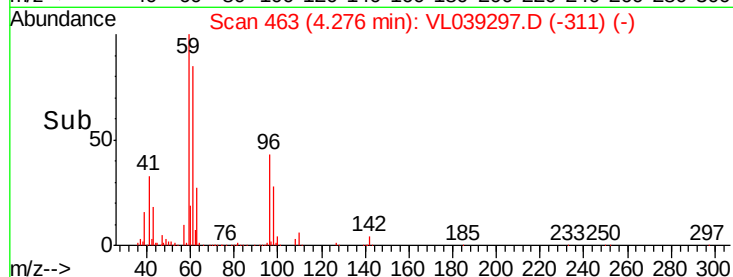
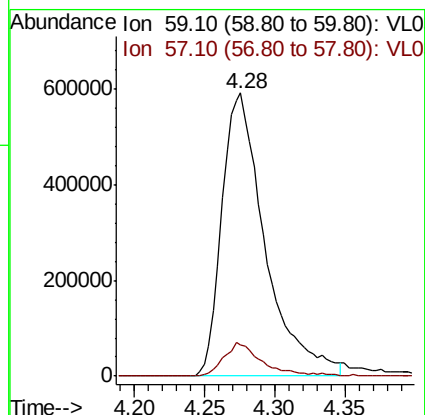
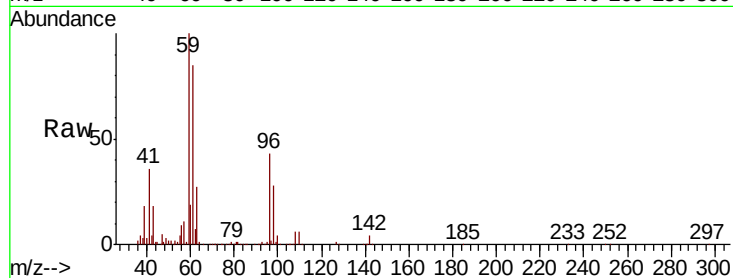
Time-->





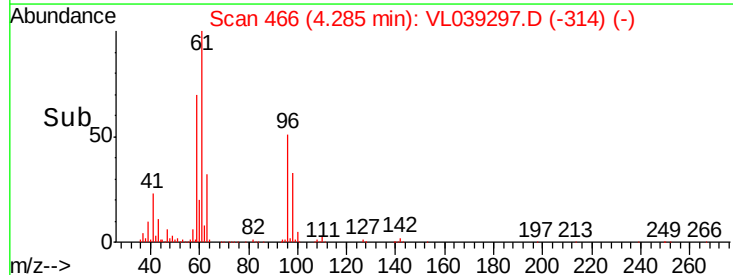
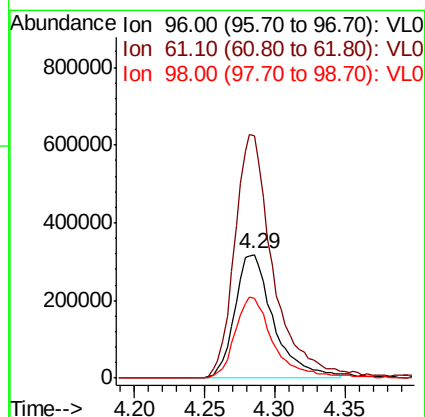
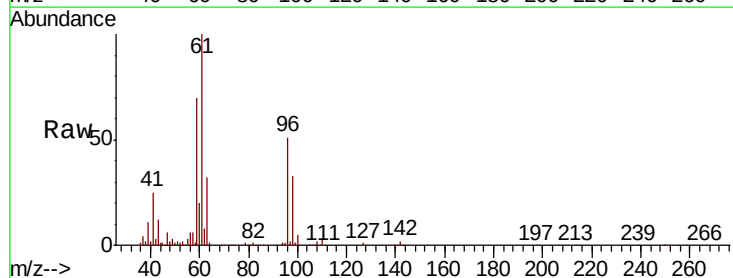
#17  
 tert-Butyl alcohol  
 Concen: 11.567 ppbv  
 RT: 4.28  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

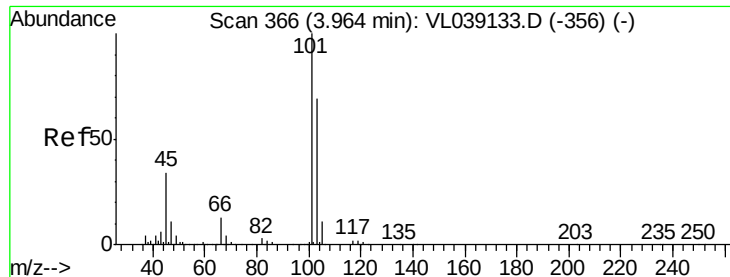
Tot Ion: 59 Resp: 1260012  
 Ion Ratio Lower Upper  
 59 100  
 57 10.8 9.1 13.7



#18  
 1,1-Dichloroethene  
 Concen: 9.633 ppbv  
 RT: 4.29 min Scan# 466  
 Delta R.T.: -0.01 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion: 96 Resp: 612542  
 Ion Ratio Lower Upper  
 96 100  
 61 196.9 138.4 207.6  
 98 64.6 47.8 71.8





#19

Isopropyl Alcohol

Concen: 10.284 ppbv

RT: 3.95 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

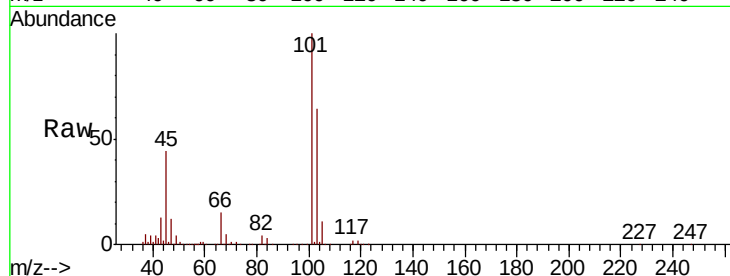
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 45 Resp: 677407

Ion Ratio Lower Upper

45 100

58 2.6 1.8 2.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

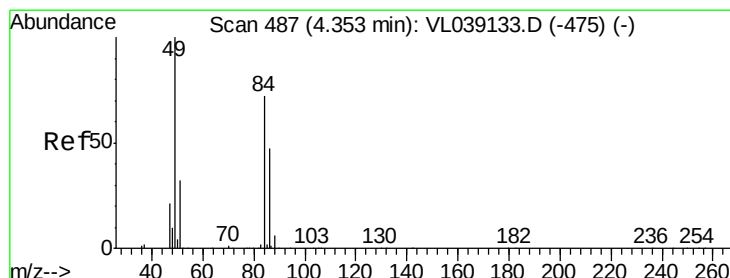
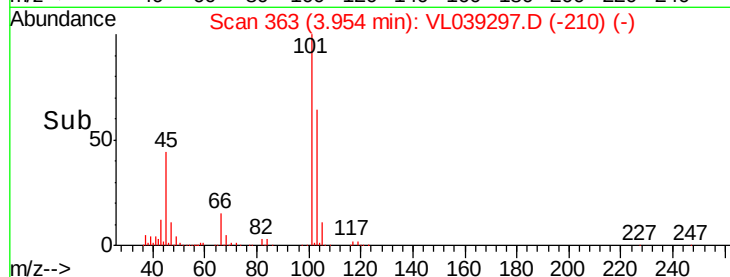
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.533 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

Tgt Ion: 84 Resp: 504985

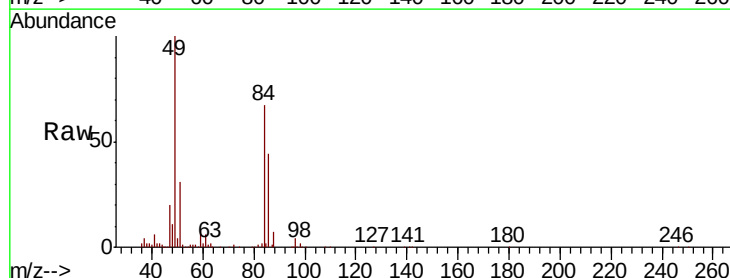
Ion Ratio Lower Upper

84 100

49 147.3 111.1 166.7

51 44.9 35.3 52.9

86 65.3 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

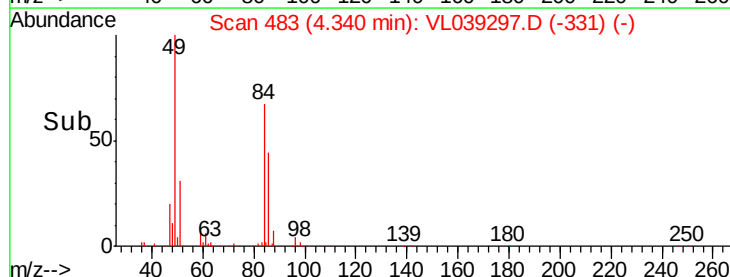
300000

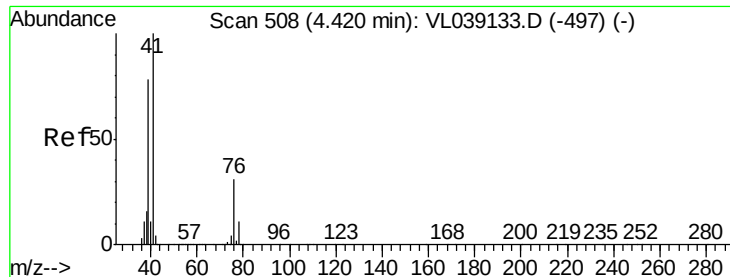
200000

100000

0

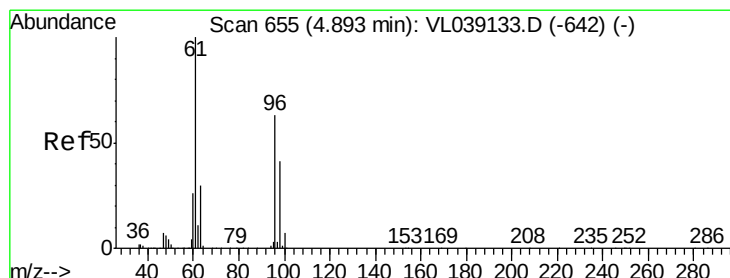
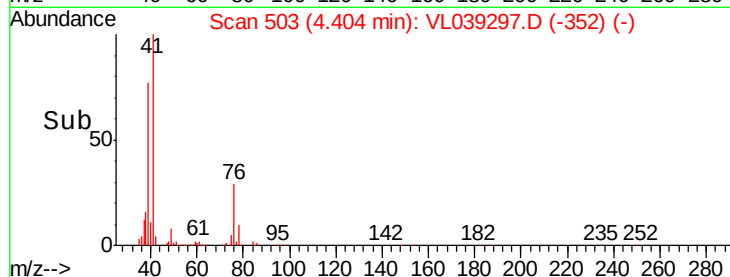
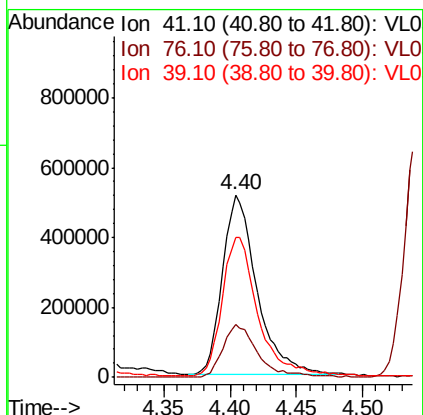
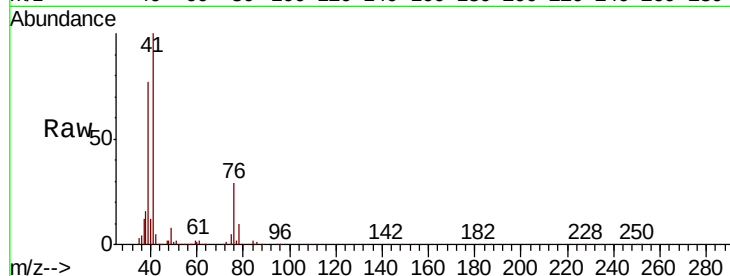
Time-->





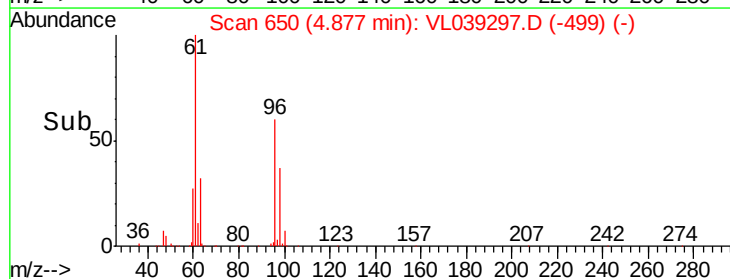
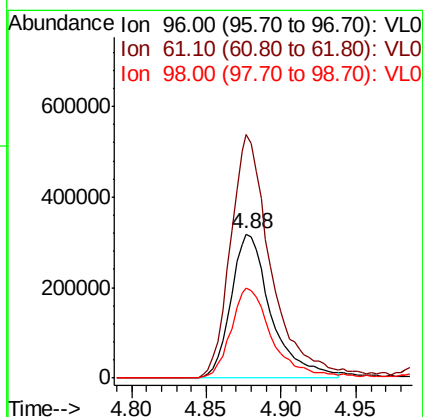
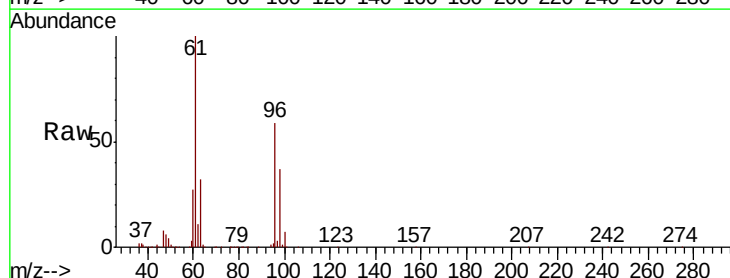
#21  
 Allvl Chloride  
 Concen: 9.757 ppbv  
 RT: 4.40  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

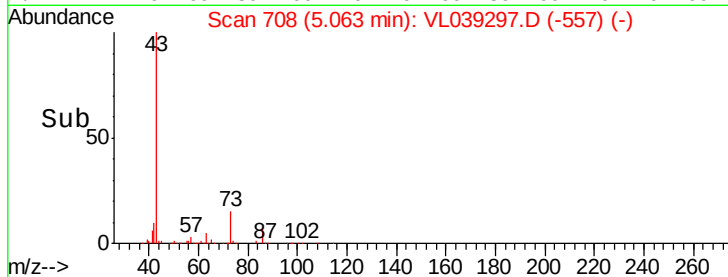
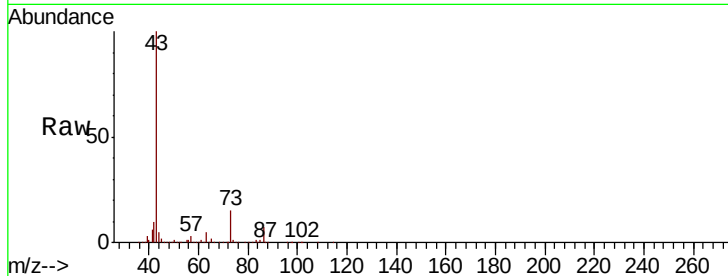
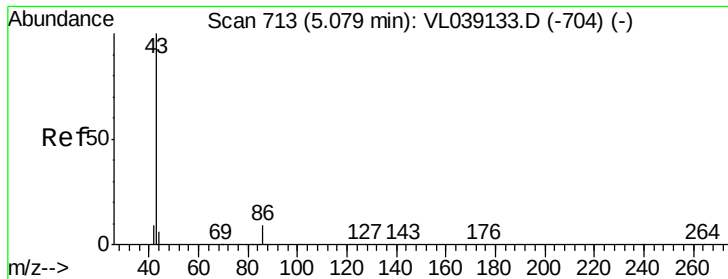
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 924344 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 30.2  | 24.2  | 36.2   |
| 39       | 81.6  | 62.2  | 93.2   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.666 ppbv  
 RT: 4.88 min Scan# 650  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

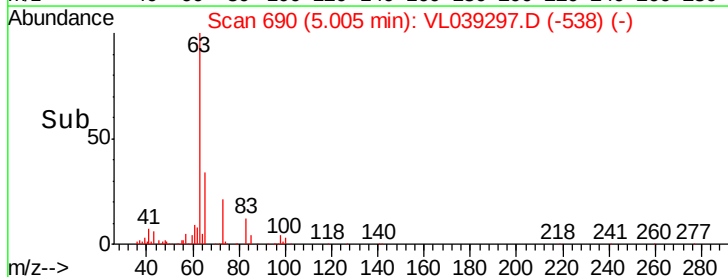
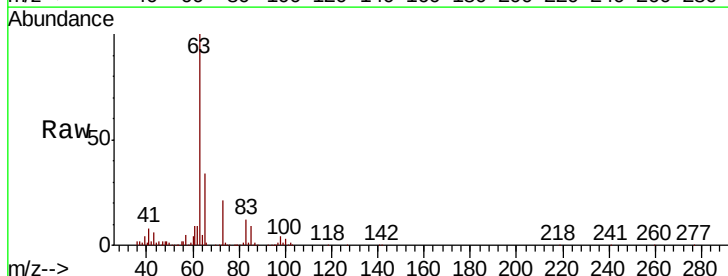
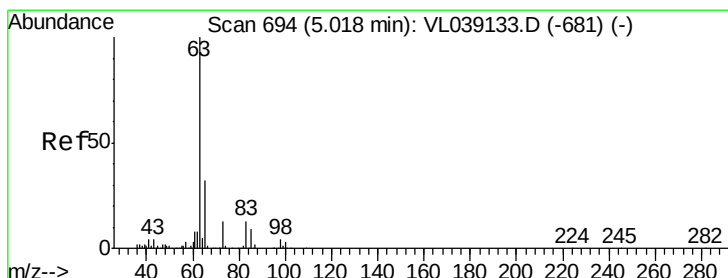
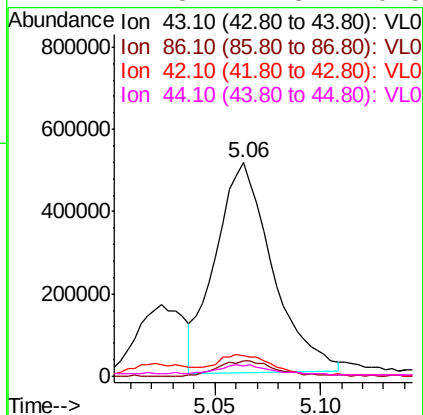
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 591390 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 168.8 | 126.6 | 190.0  |
| 98       | 62.4  | 52.5  | 78.7   |





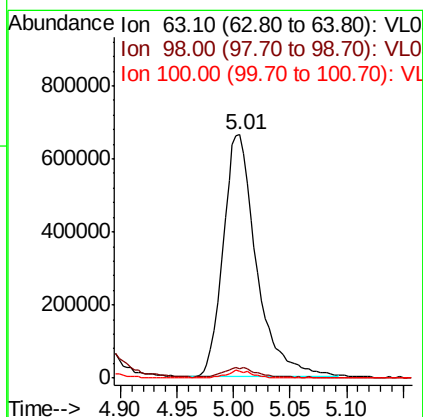
#23  
 Vinyl Acetate  
 Concen: 8.298 ppbv  
 RT: 5.06  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

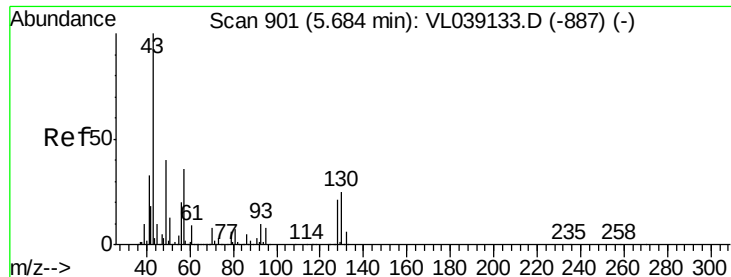
| Tot Ion: | 43    | Resp: | 964250 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 7.5   | 6.0   | 9.0    |
| 42       | 9.5   | 8.2   | 12.4   |
| 44       | 4.8   | 4.3   | 6.5    |



#24  
 1,1-Dichloroethane  
 Concen: 8.541 ppbv  
 RT: 5.01 min Scan# 690  
 Delta R.T.: -0.01 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

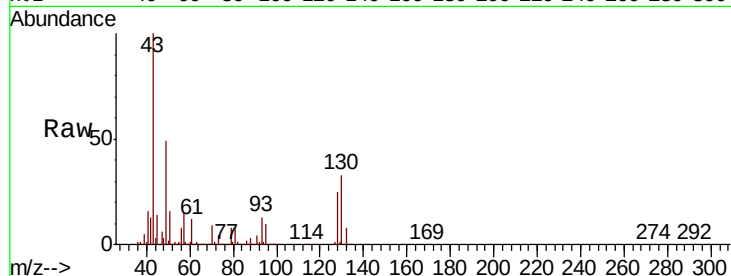
| Tgt Ion: | 63    | Resp: | 1359716 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 63       | 100   |       |         |
| 98       | 4.0   | 2.1   | 6.2     |
| 100      | 2.6   | 1.5   | 4.5     |





#25  
Ethyl Acetate  
Concen: 10.029 ppbv  
RT: 5.66  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010EC  
Acq: 15 Jun 2022 13:07

| Tot Ion: | 43    | Resp: | 3174637 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 10.7  | 8.2   | 12.2    |
| 61       | 10.1  | 8.4   | 12.6    |
| 70       | 7.4   | 5.6   | 8.4     |



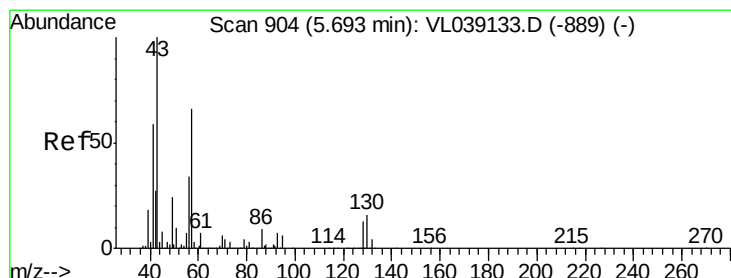
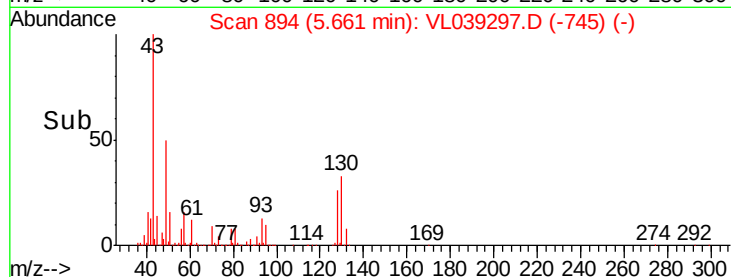
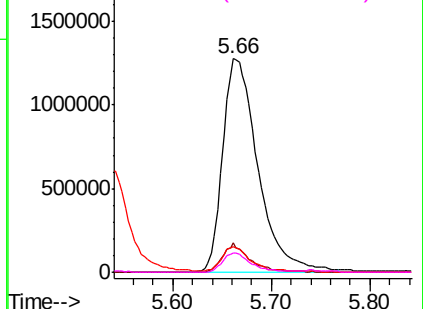
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

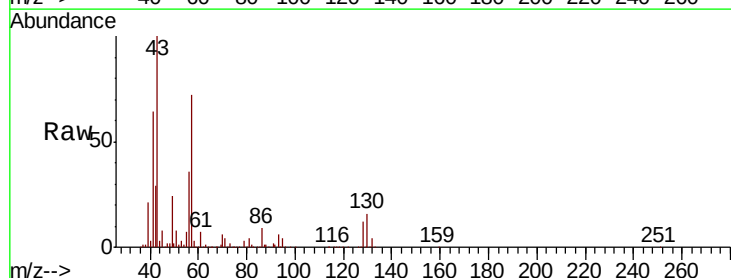
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 8.889 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T.: -0.01 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

| Tgt Ion: | 57    | Resp: | 1236469 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 94.4  | 72.4  | 108.6   |
| 43       | 260.2 | 187.0 | 280.6   |
| 56       | 52.6  | 41.8  | 62.6    |



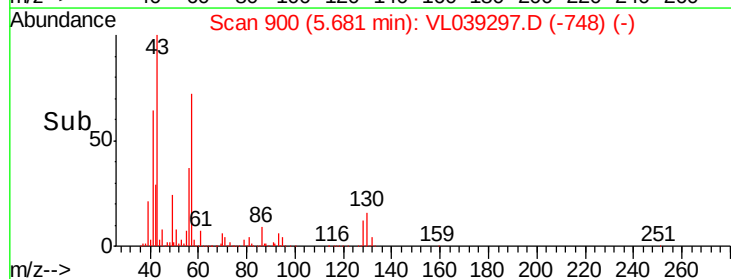
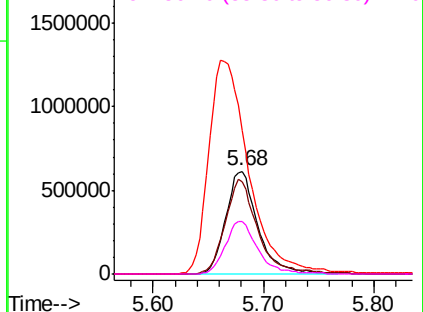
Abundance

Ion 57.10 (56.80 to 57.80): VL0

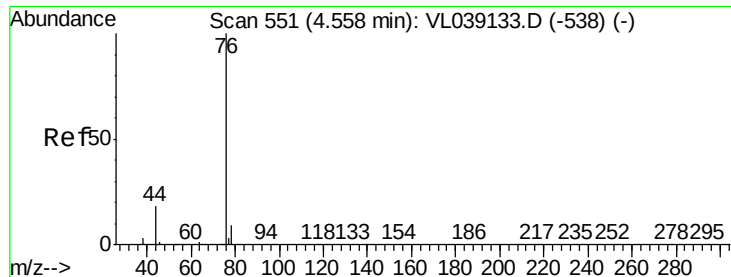
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0







#27

Carbon Disulfide

Concen: 9.910 ppbv

RT: 4.54 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07 VSTDCCC010EC

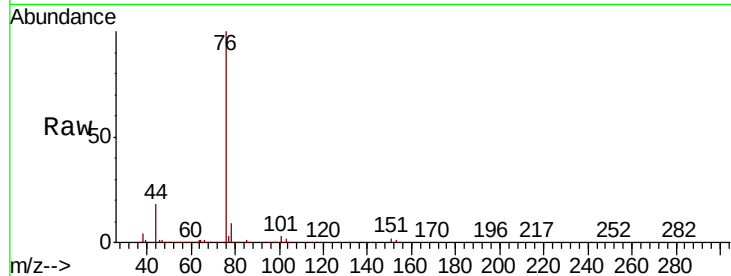
Tot Ion: 76 Resp: 1428748

Ion Ratio Lower Upper

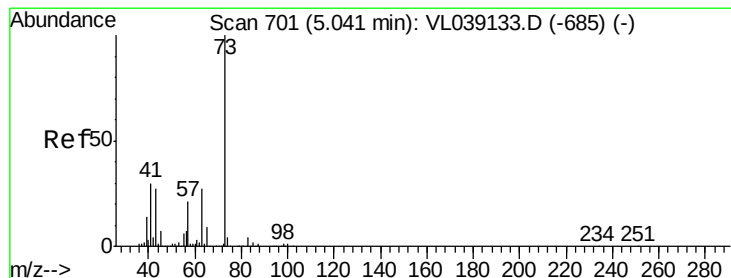
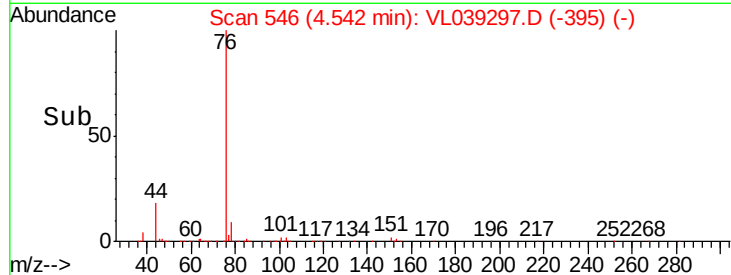
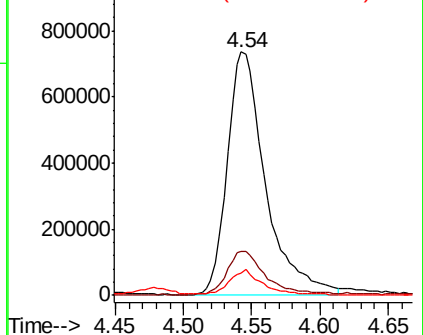
76 100

44 18.8 14.4 21.6

78 9.8 7.7 11.5



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: 8.748 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.02 min

Lab File: VL039297.D

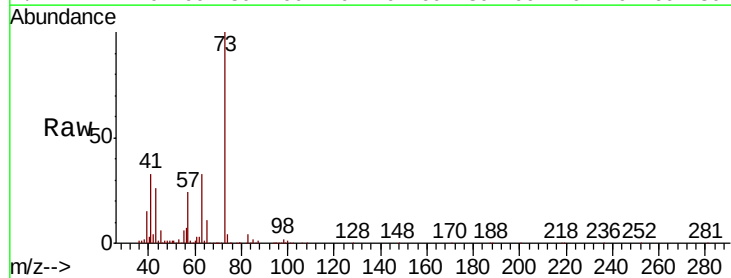
Acq: 15 Jun 2022 13:07

Tgt Ion: 73 Resp: 1343336

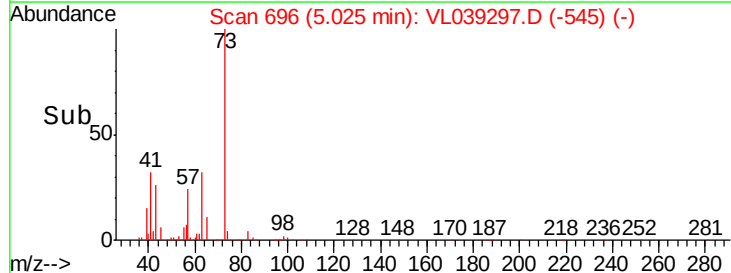
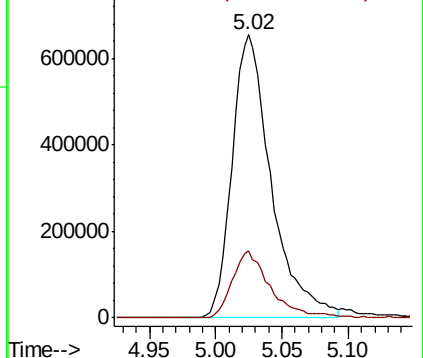
Ion Ratio Lower Upper

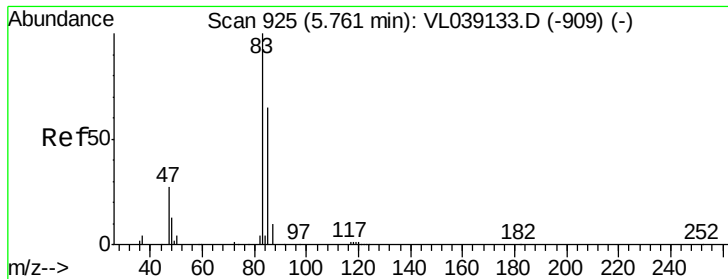
73 100

57 23.5 18.6 27.8



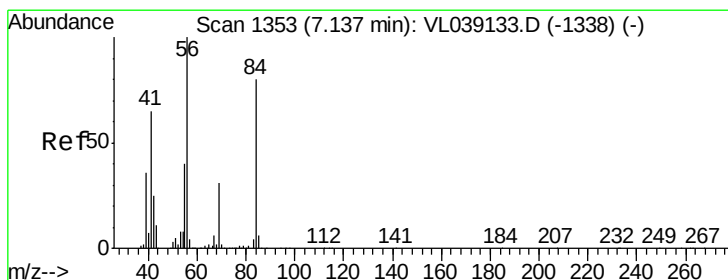
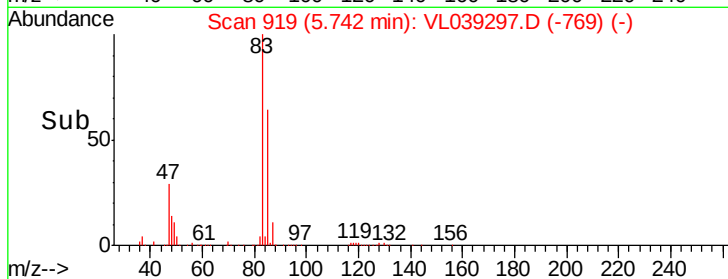
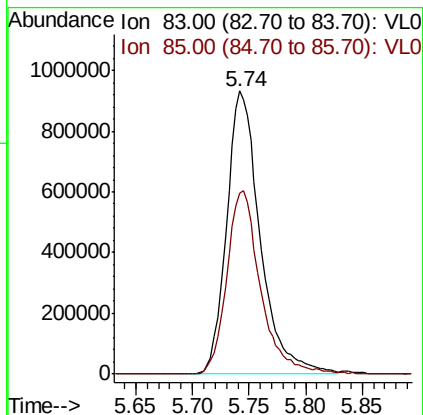
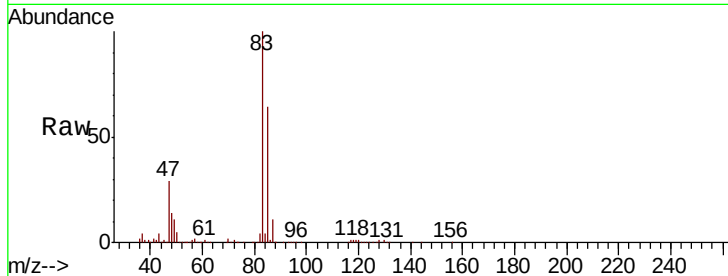
Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





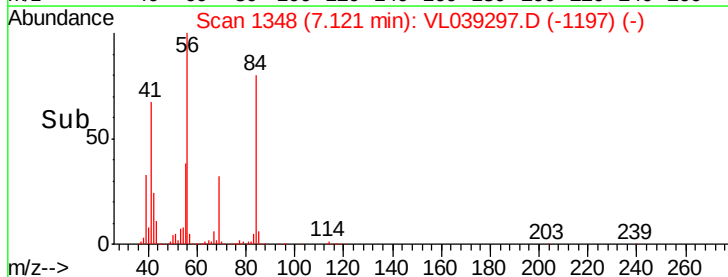
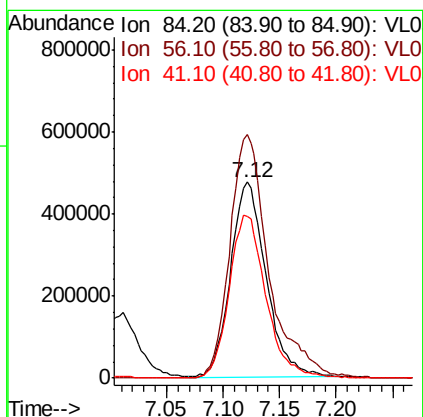
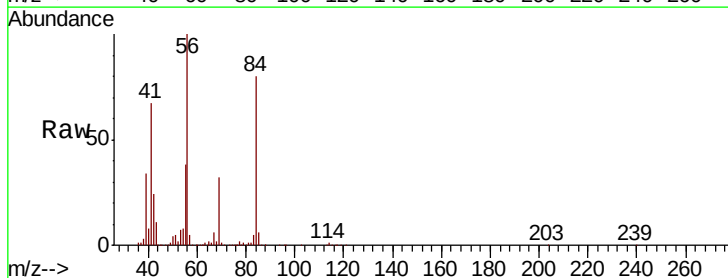
#29  
Chloroform  
Concen: 8.222 ppbv  
RT: 5.74  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 15 Jun 2022 13:07

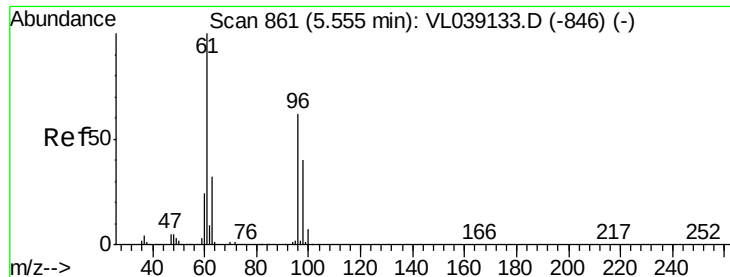
Tot Ion: 83 Resp: 1924561  
Ion Ratio Lower Upper  
83 100  
85 64.0 52.4 78.6



#30  
Cyclohexane  
Concen: 8.954 ppbv  
RT: 7.12 min Scan# 1348  
Delta R.T. -0.02 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

Tgt Ion: 84 Resp: 1046299  
Ion Ratio Lower Upper  
84 100  
56 136.8 110.6 165.8  
41 85.7 68.9 103.3





#31

cis-1,2-Dichloroethene

Concen: 8.533 ppbv

RT: 5.54 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07 VSTDCCC010EC

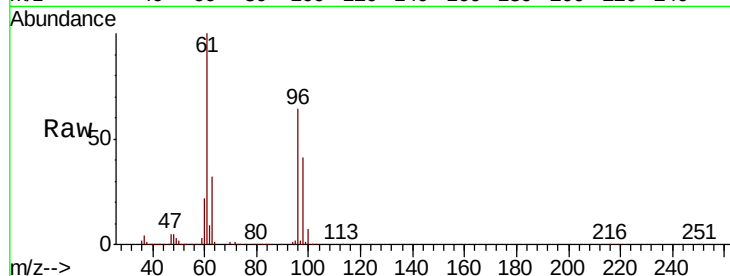
Tot Ion: 61 Resp: 1210305

Ion Ratio Lower Upper

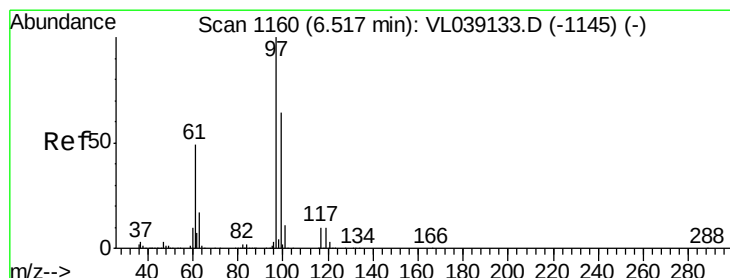
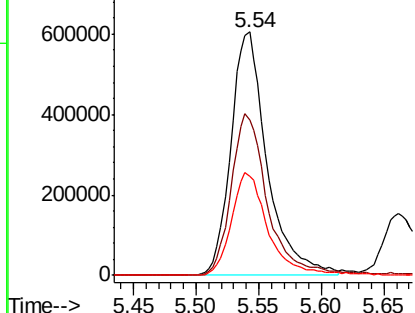
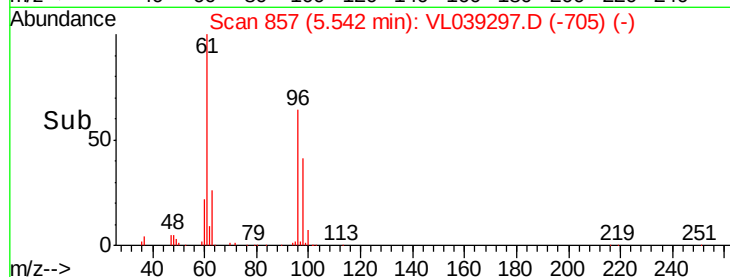
61 100

96 63.9 49.9 74.9

98 40.7 32.0 48.0



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: 8.511 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

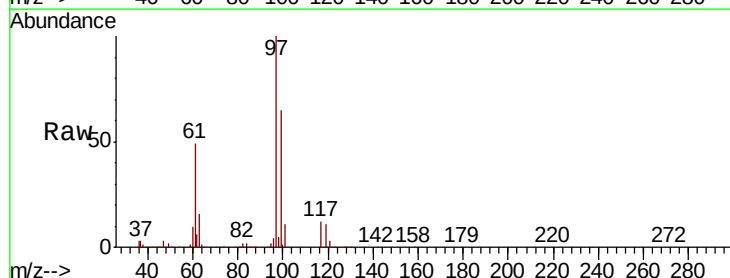
Tgt Ion: 97 Resp: 1949482

Ion Ratio Lower Upper

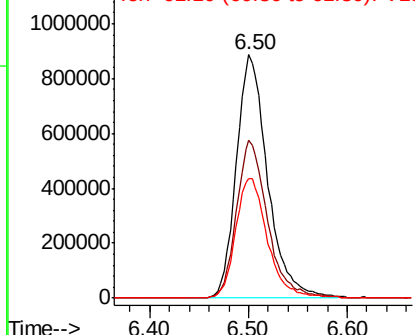
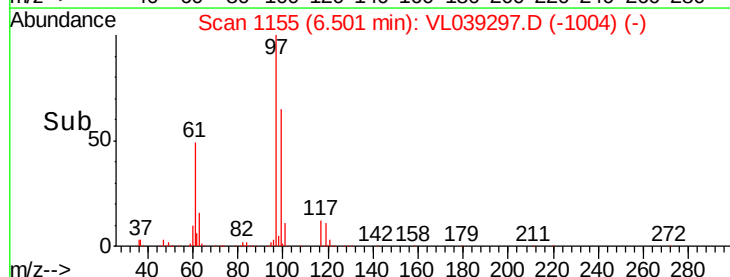
97 100

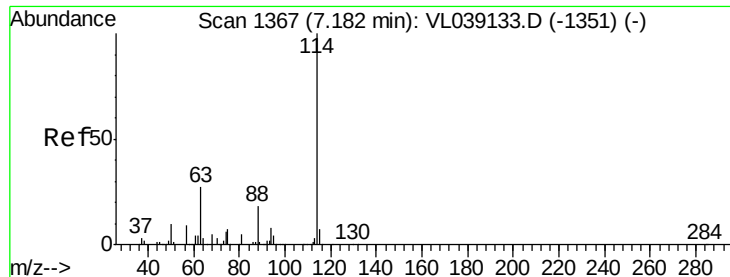
99 64.5 52.1 78.1

61 50.5 40.0 60.0



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

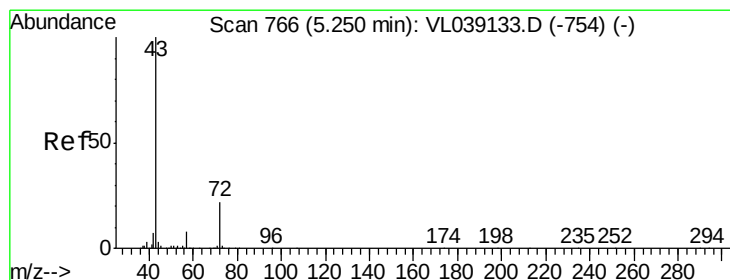
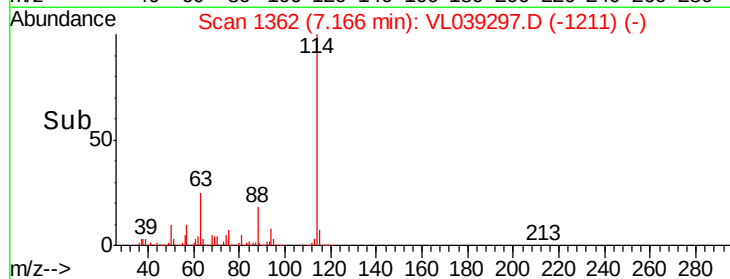
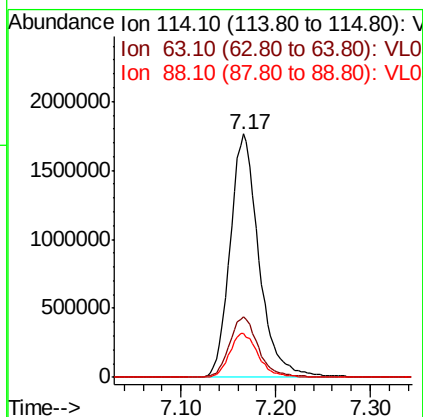
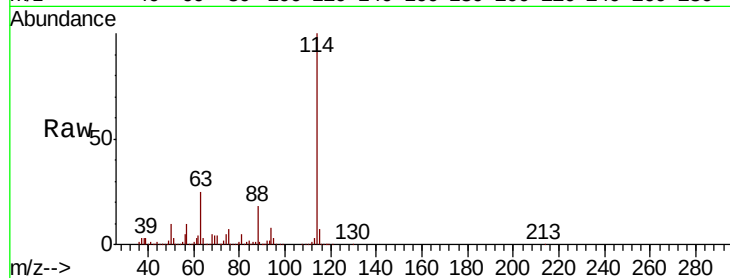




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

Tot Ion:114 Resp: 3734188

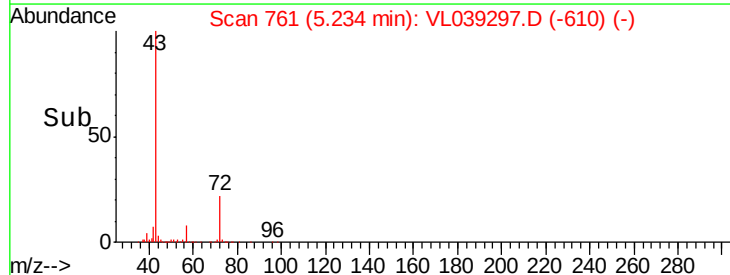
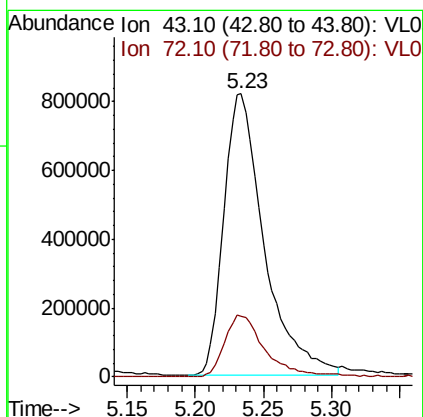
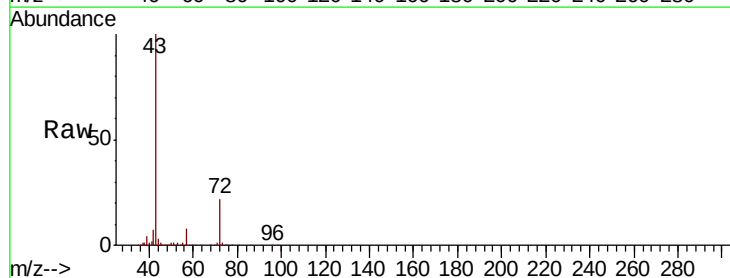
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.1  | 21.7  | 32.5  |
| 88  | 18.2  | 14.8  | 22.2  |

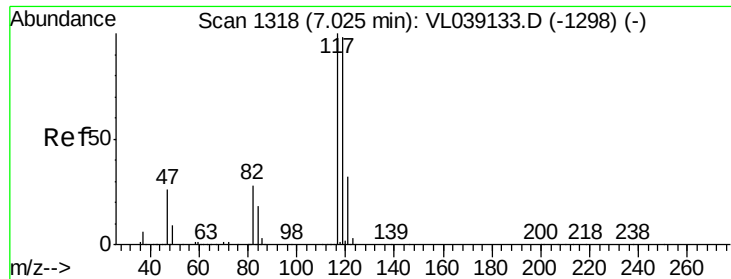


#34  
 2-Butanone  
 Concen: 8.298 ppbv  
 RT: 5.23 min Scan# 761  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion: 43 Resp: 1683519

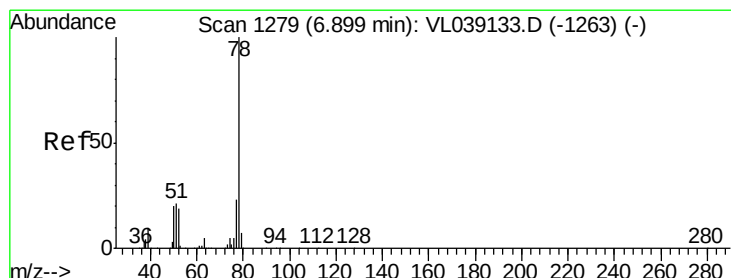
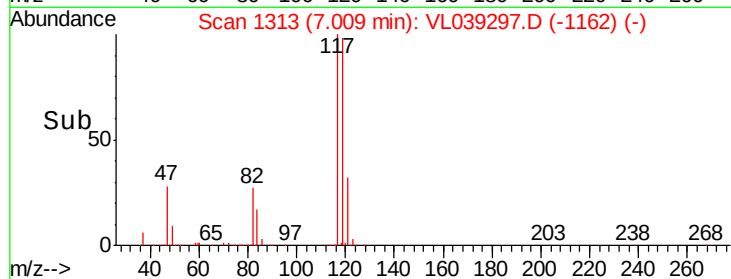
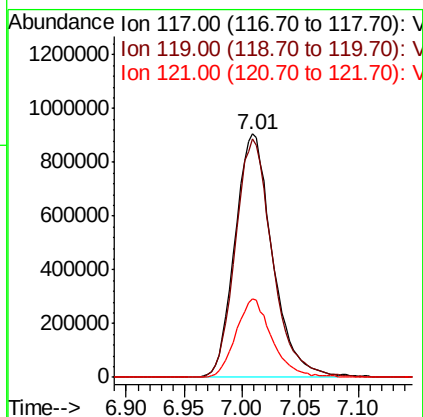
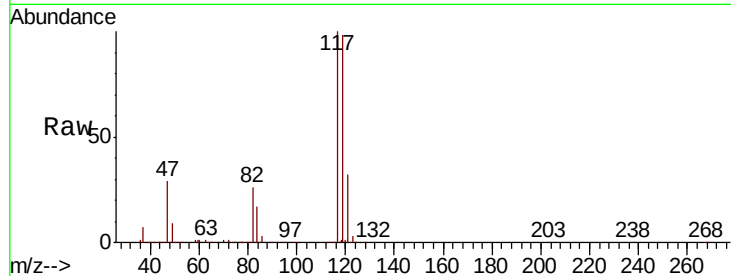
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.3  | 18.2  | 27.2  |





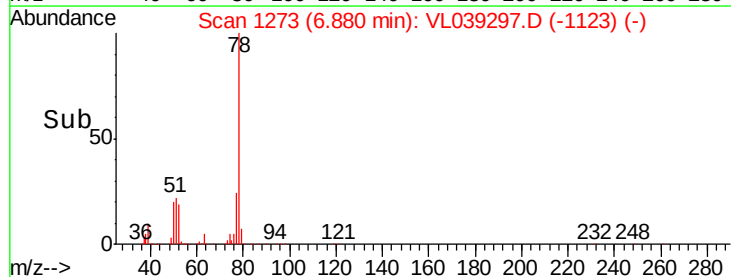
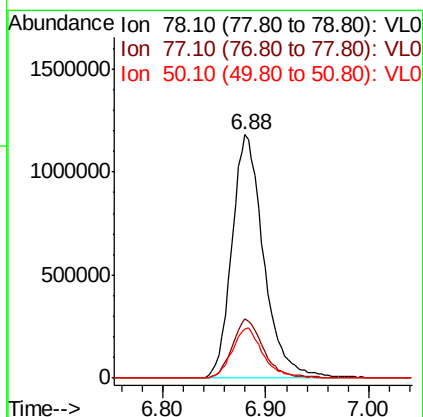
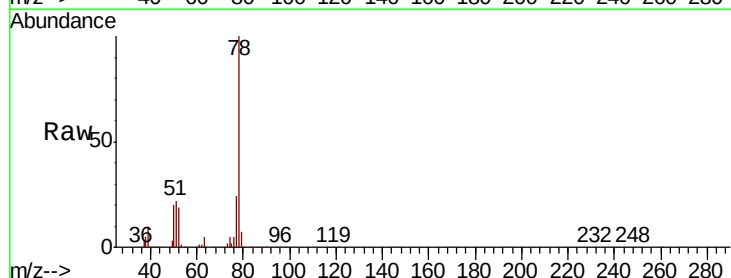
#35  
Carbon Tetrachloride  
Concen: 7.470 ppbv  
RT: 7.01  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010EC  
Acq: 15 Jun 2022 13:07

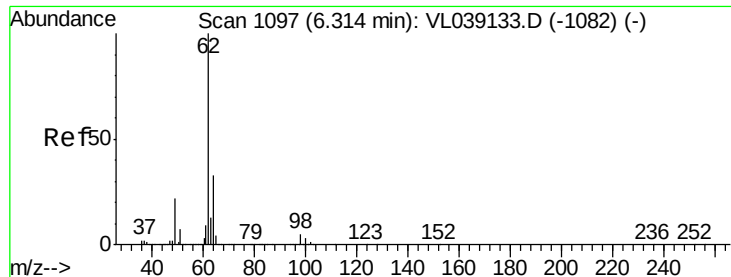
Tot Ion:117 Resp: 2036037  
Ion Ratio Lower Upper  
117 100  
119 98.1 78.6 118.0  
121 32.1 25.4 38.0



#36  
Benzene  
Concen: 8.366 ppbv  
RT: 6.88 min Scan# 1273  
Delta R.T. -0.02 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

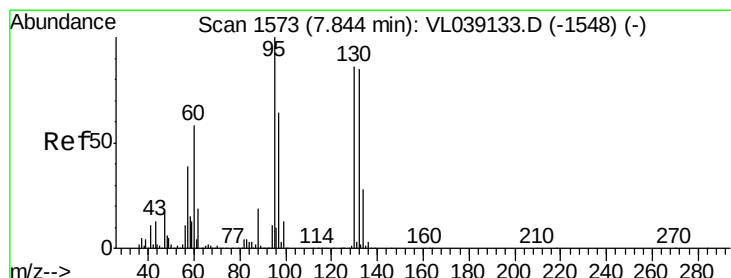
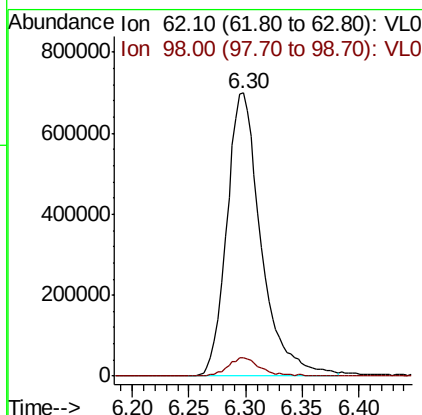
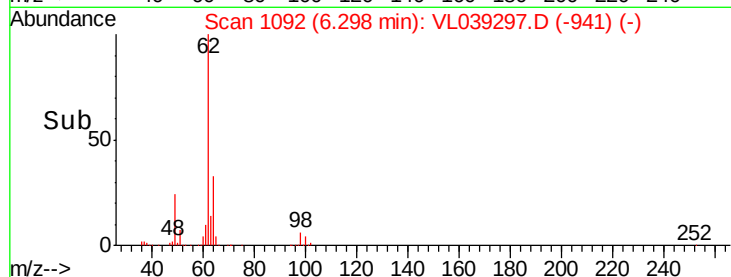
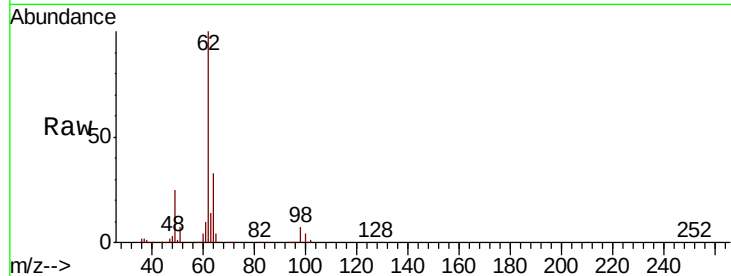
Tgt Ion: 78 Resp: 2536134  
Ion Ratio Lower Upper  
78 100  
77 24.2 18.6 27.8  
50 20.3 15.8 23.8





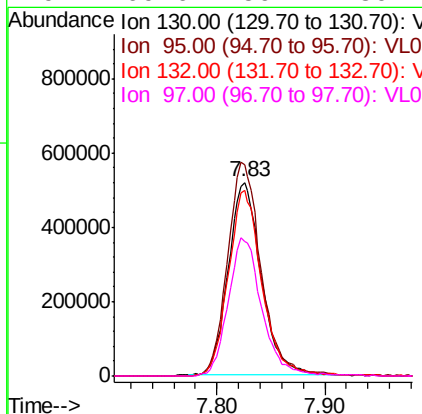
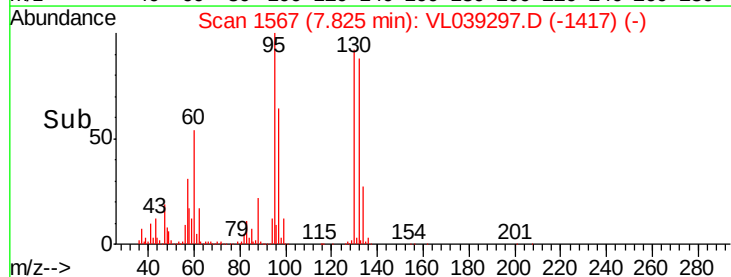
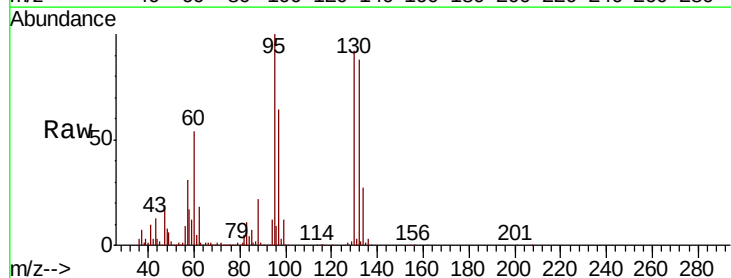
#37  
 1,2-Dichloroethane  
 Concen: 7.392 ppbv  
 RT: 6.30  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

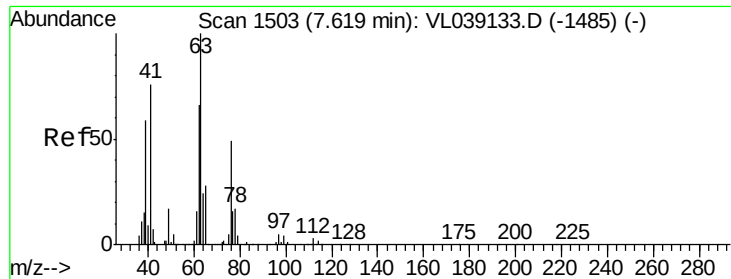
Tot Ion: 62 Resp: 1474751  
 Ion Ratio Lower Upper  
 62 100  
 98 6.4 4.3 6.5



#38  
 Trichloroethene  
 Concen: 7.954 ppbv  
 RT: 7.83 min Scan# 1567  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion: 130 Resp: 1107596  
 Ion Ratio Lower Upper  
 130 100  
 95 109.4 93.3 139.9  
 132 96.0 79.0 118.4  
 97 69.6 59.4 89.2





#39

1,2-Dichloropropane

Concen: 7.856 ppbv

RT: 7.60 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07 VSTDCCC010EC

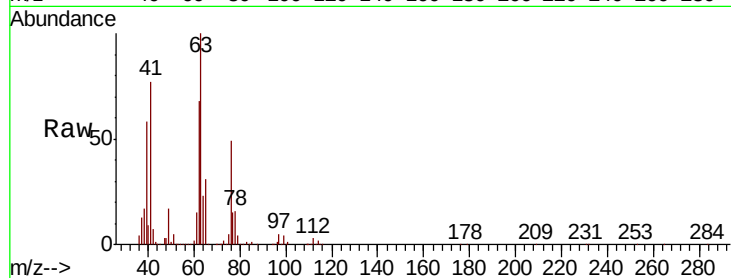
Tot Ion: 63 Resp: 947278

Ion Ratio Lower Upper

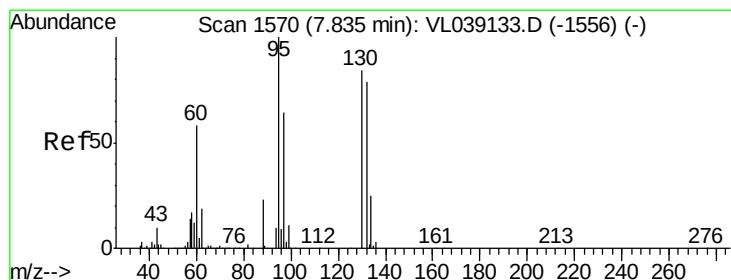
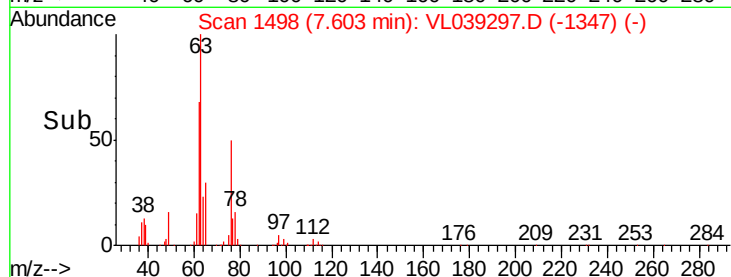
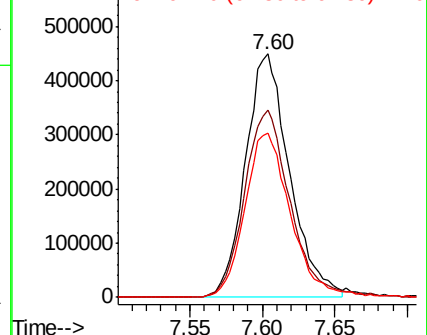
63 100

41 77.0 60.8 91.2

62 67.7 52.9 79.3



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.536 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

Tgt Ion: 88 Resp: 338873

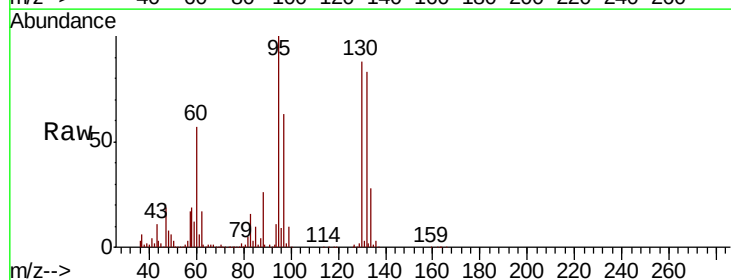
Ion Ratio Lower Upper

88 100

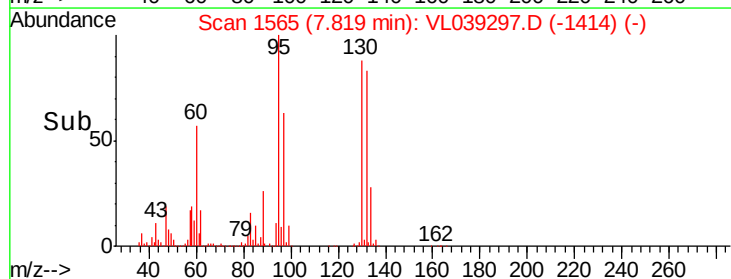
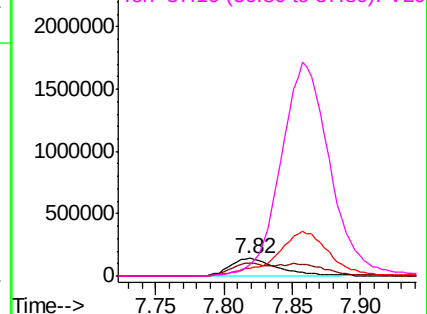
58 63.2 111.2 166.8#

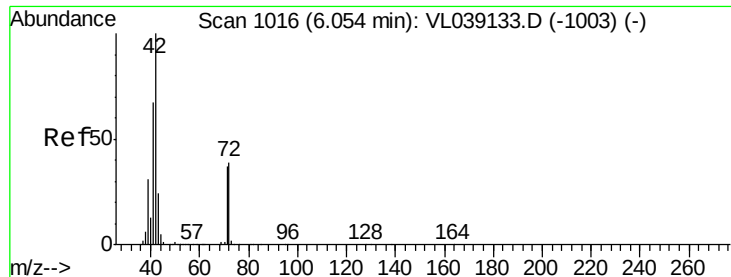
43 0.0 234.2 351.4#

57 0.0 1039.9 1559.9#



Abundance Ion 88.10 (87.80 to 88.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 7.847 ppbv

RT: 6.04 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 15 Jun 2022 13:07

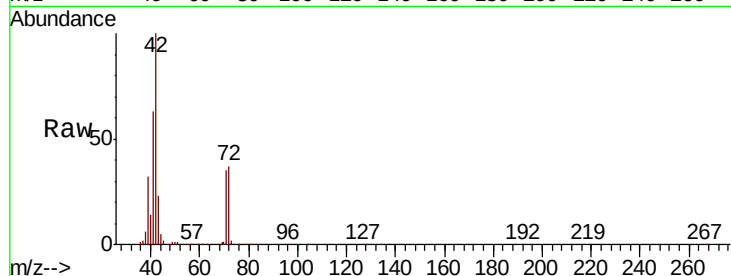
Tot Ion: 42 Resp: 957385

Ion Ratio Lower Upper

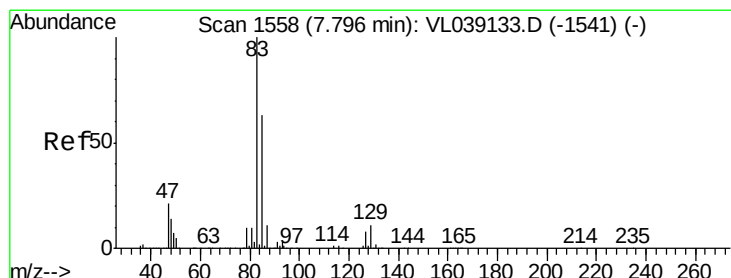
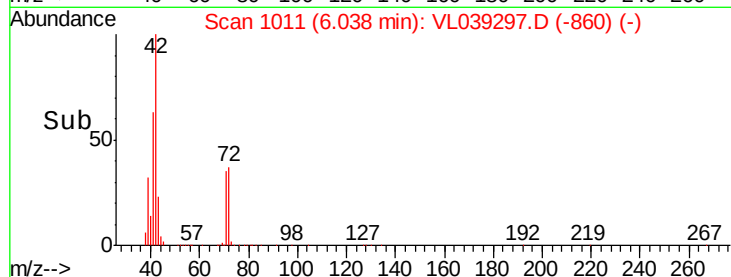
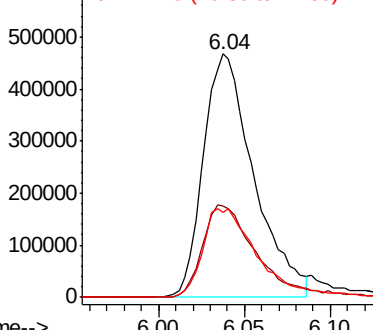
42 100

72 41.3 32.0 48.0

71 40.3 31.1 46.7



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 7.545 ppbv

RT: 7.78 min Scan# 1553

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

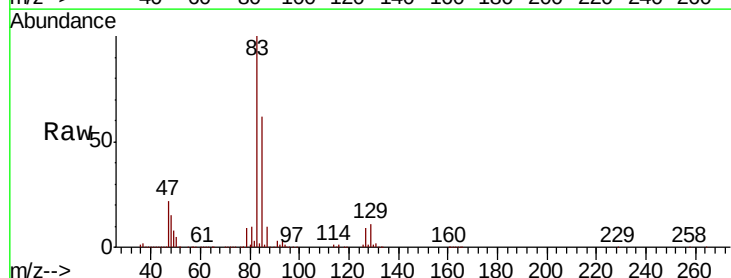
Tgt Ion: 83 Resp: 2089236

Ion Ratio Lower Upper

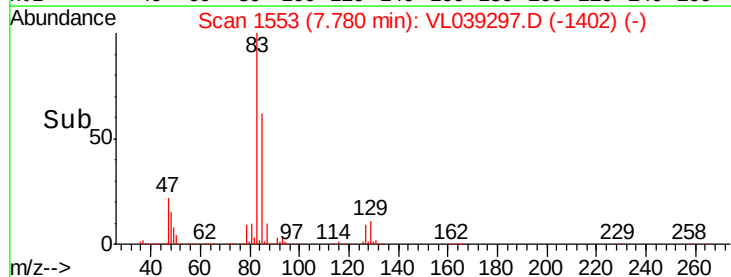
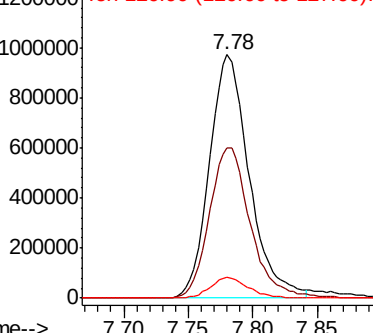
83 100

85 61.8 50.2 75.4

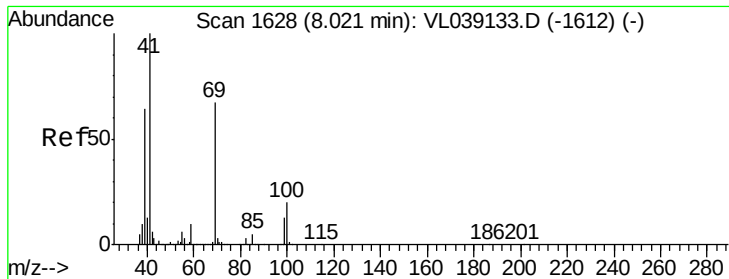
127 8.8 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V







#43

Methyl Methacrylate

Concen: 9.241 ppbv

RT: 8.00

Instrument: MSVOA\_1

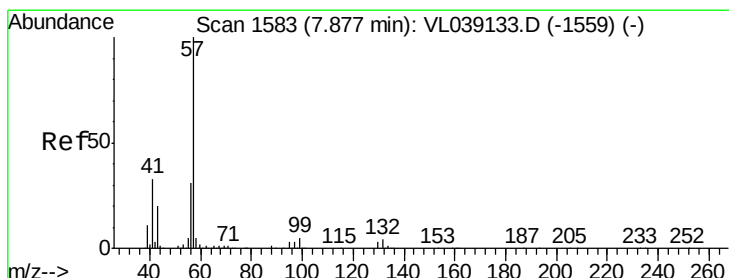
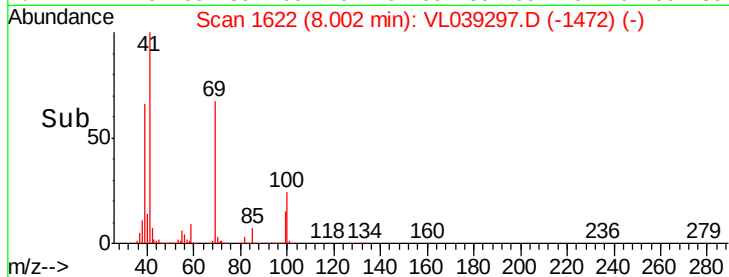
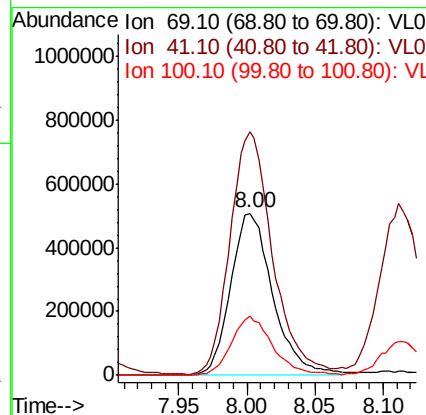
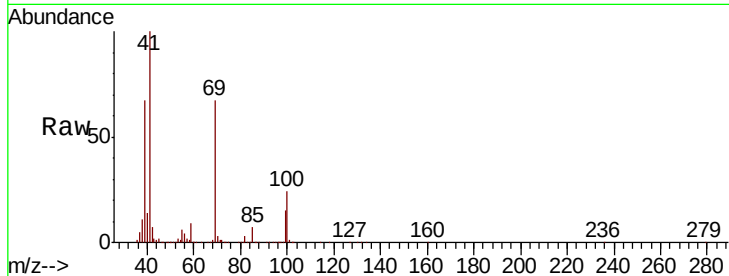
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

Acq: 15 Jun 2022 13:07

Tot Ion: 69 Resp: 1091193

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 151.5 | 121.9 | 182.9 |
| 100 | 35.5  | 24.1  | 36.1  |



#44

2,2,4-Trimethylpentane

Concen: 8.117 ppbv

RT: 7.86 min Scan# 1577

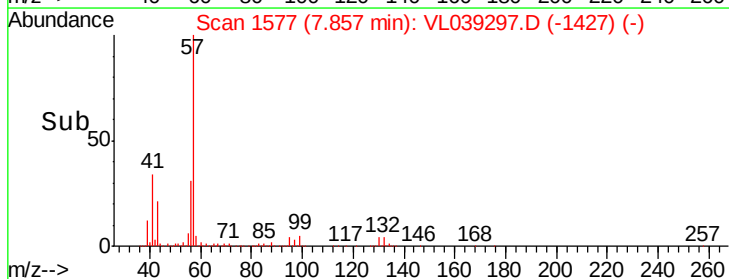
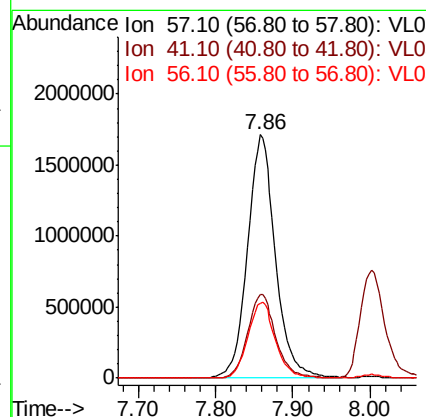
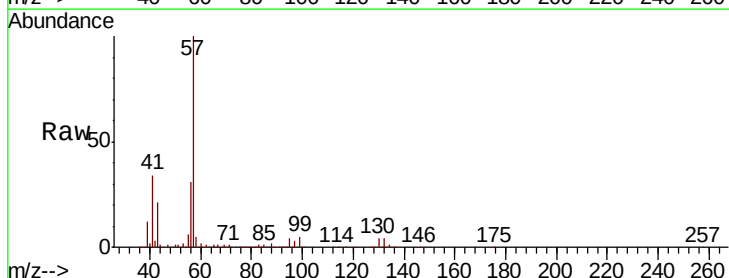
Delta R.T. -0.02 min

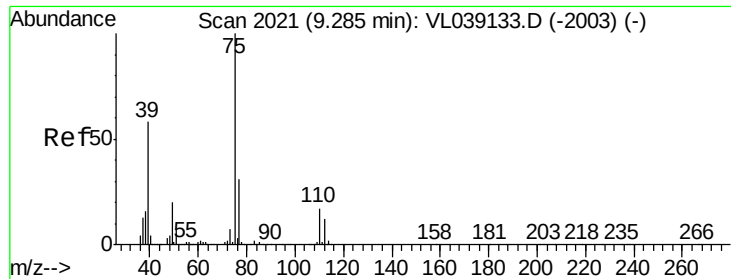
Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

Tgt Ion: 57 Resp: 4304643

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 34.4  | 26.2  | 39.4  |
| 56  | 30.9  | 24.7  | 37.1  |





#45

t-1,3-Dichloropropene

Concen: 6.686 ppbv

RT: 9.27 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

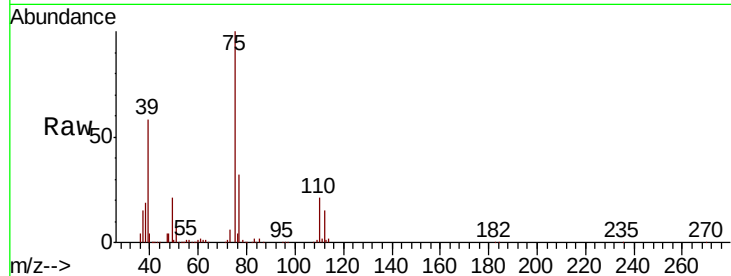
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 75 Resp: 822304

Ion Ratio Lower Upper

75 100

77 31.7 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.27

400000

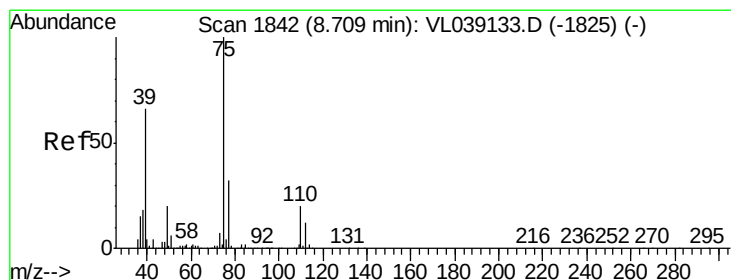
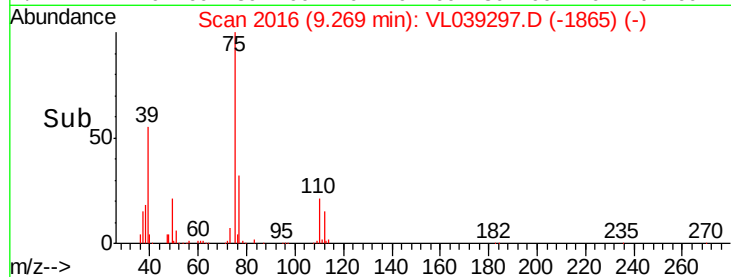
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 7.218 ppbv

RT: 8.69 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

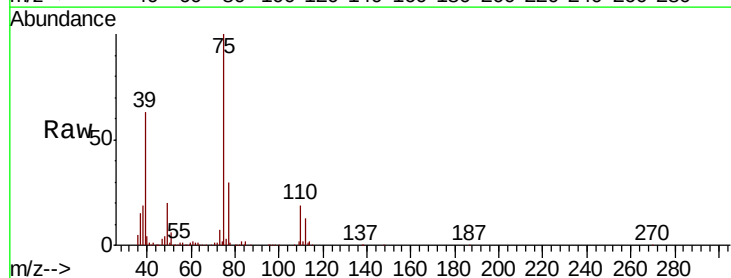
Tgt Ion: 75 Resp: 1172629

Ion Ratio Lower Upper

75 100

39 62.9 52.4 78.6

77 30.3 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.69

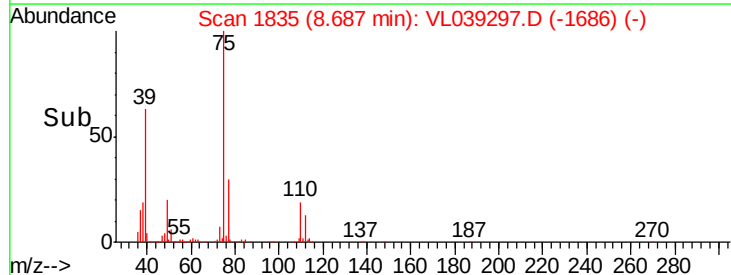
600000

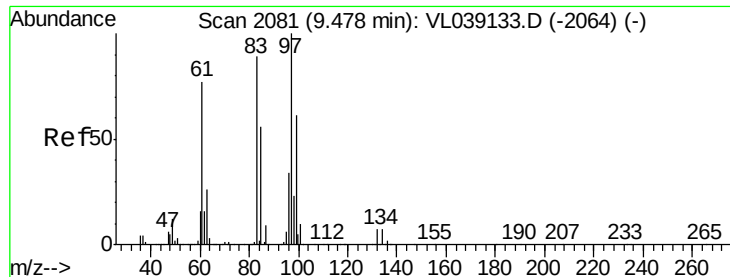
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 8.610 ppbv

RT: 9.47 Instrument:

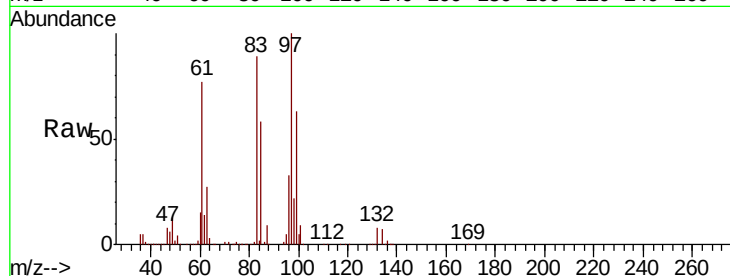
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 97 Resp: 1083217

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.8  | 71.6  | 107.4 |
| 85  | 58.5  | 44.8  | 67.2  |
| 99  | 62.9  | 49.0  | 73.4  |

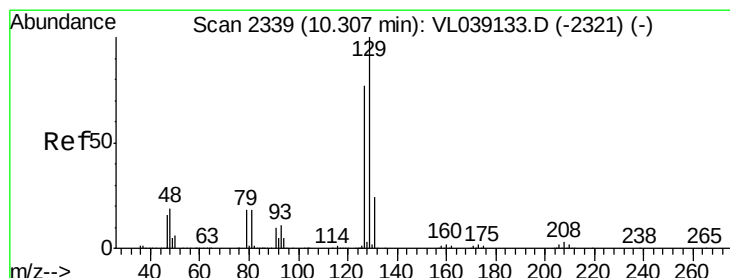
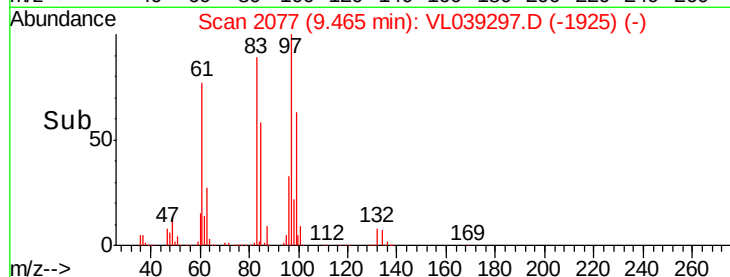
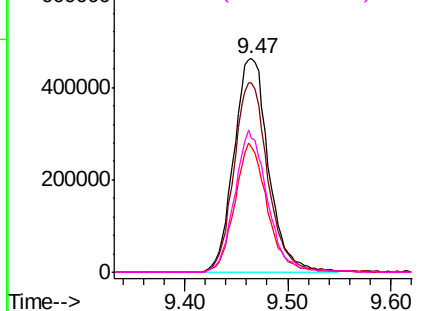


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 5.246 ppbv

RT: 10.29 min Scan# 2335

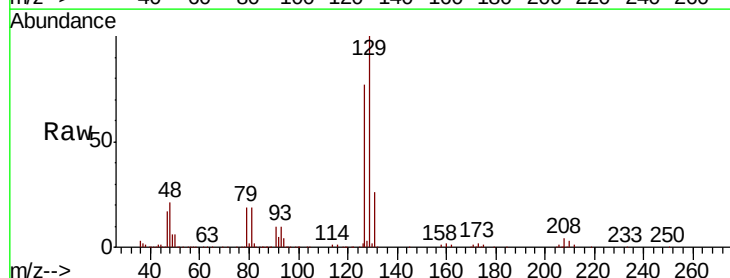
Delta R.T. -0.01 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

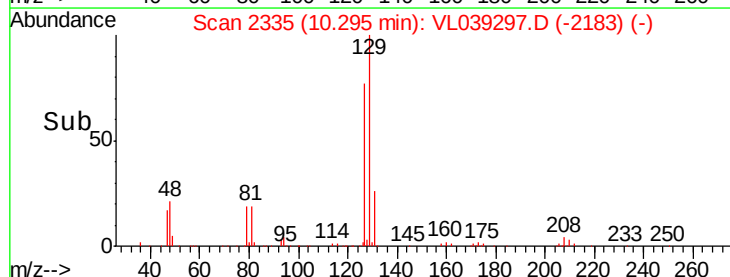
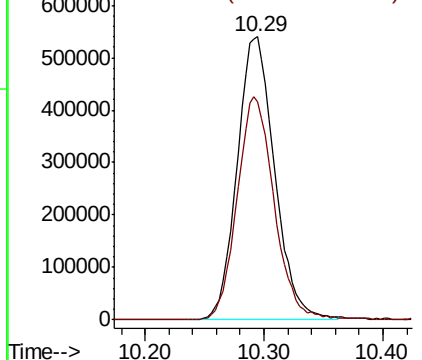
Tgt Ion: 129 Resp: 1178300

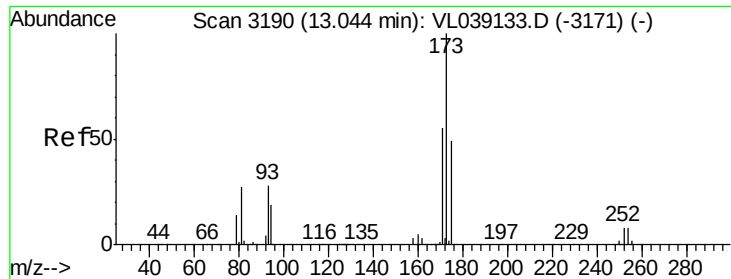
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.3  | 40.0  | 119.9 |



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.358 ppbv

RT: 13.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 15 Jun 2022 13:07

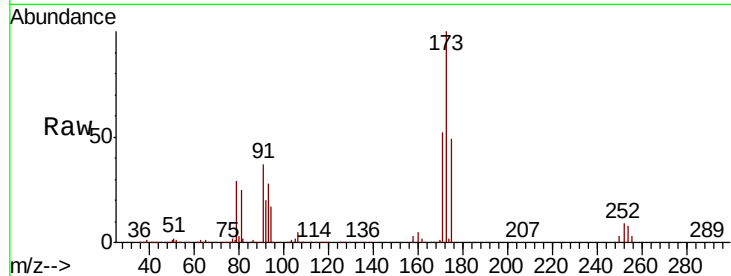
Tot Ion:173 Resp: 1564588

Ion Ratio Lower Upper

173 100

175 49.7 40.2 60.2

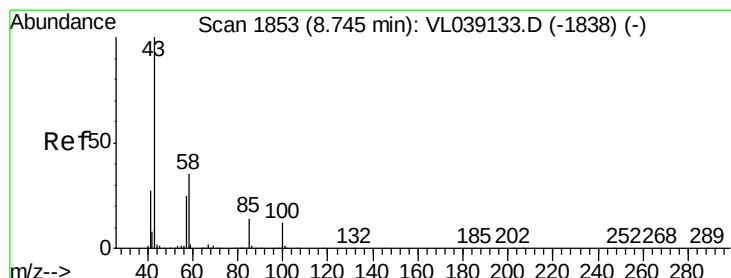
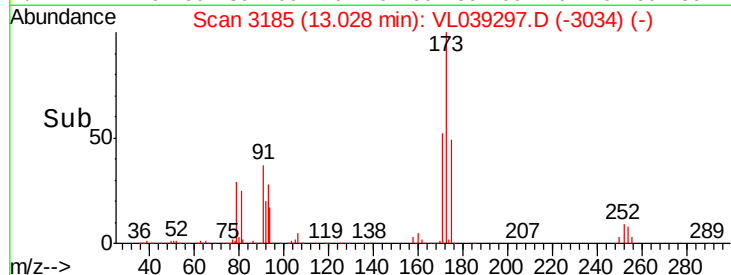
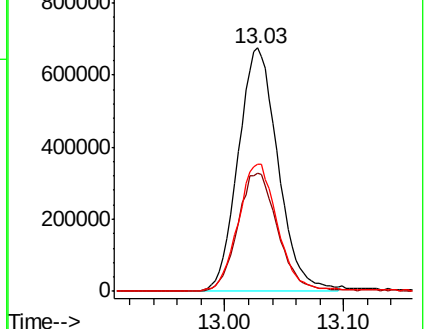
171 53.2 43.9 65.9



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: 8.889 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. -0.02 min

Lab File: VL039297.D

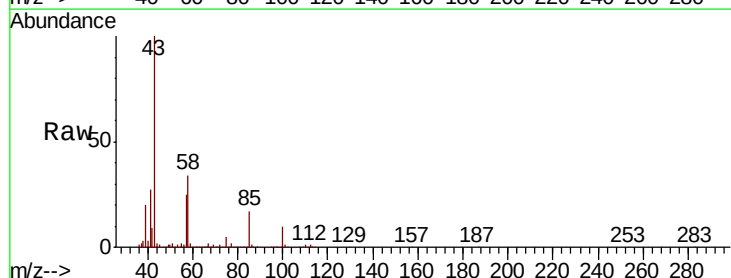
Acq: 15 Jun 2022 13:07

Tgt Ion: 43 Resp: 2699351

Ion Ratio Lower Upper

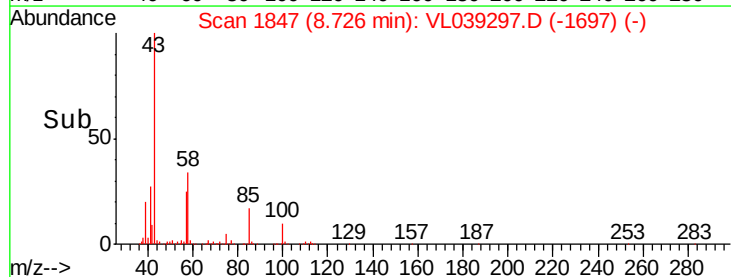
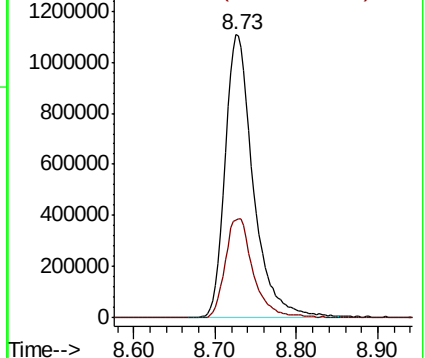
43 100

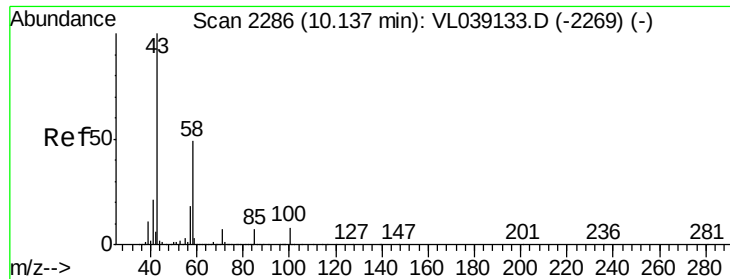
58 35.3 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

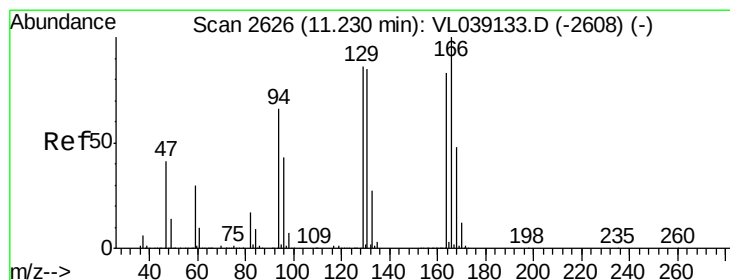
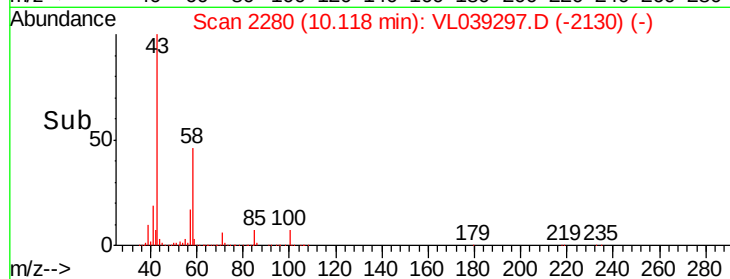
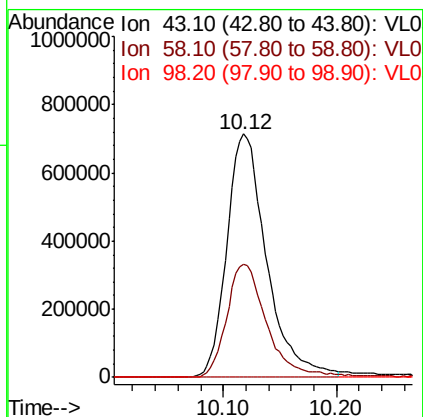
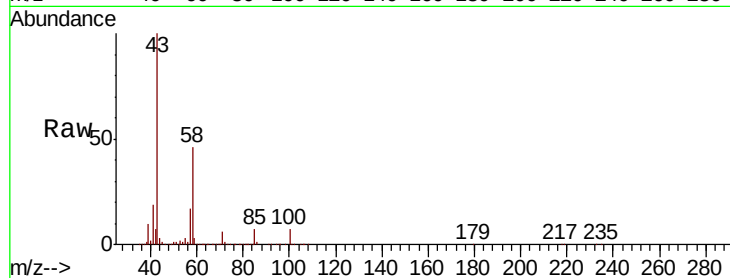
Ion 58.10 (57.80 to 58.80): VL0





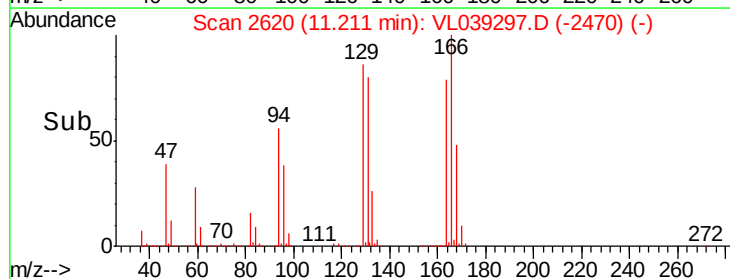
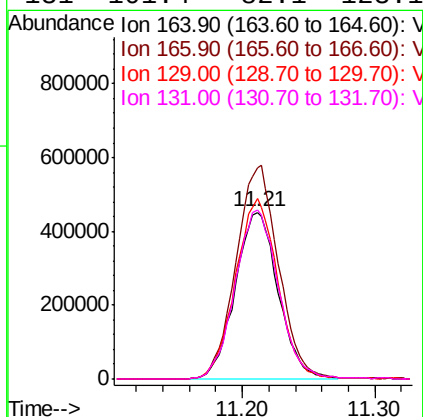
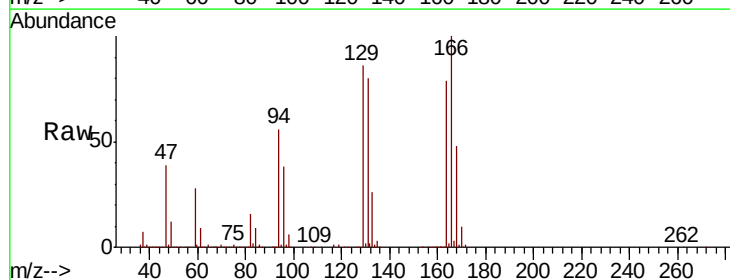
#51  
 2-Hexanone  
 Concen: 7.382 ppbv  
 RT: 10.12  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 15 Jun 2022 13:07

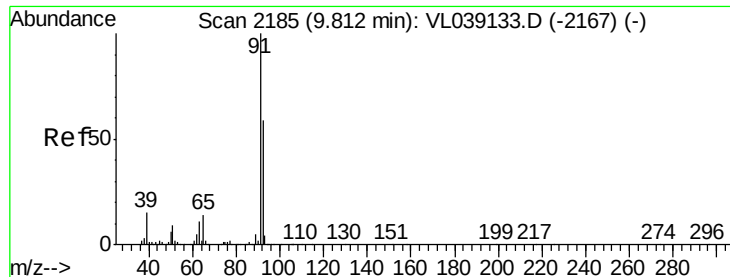
Tot Ion: 43 Resp: 1744217  
 Ion Ratio Lower Upper  
 43 100  
 58 47.9 40.0 60.0  
 98 0.3 0.1 0.1#



#52  
 Tetrachloroethene  
 Concen: 8.534 ppbv  
 RT: 11.21 min Scan# 2620  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion:164 Resp: 1010114  
 Ion Ratio Lower Upper  
 164 100  
 166 126.4 96.3 144.5  
 129 108.1 82.5 123.7  
 131 101.4 82.1 123.1





#53

Toluene

Concen: 8.718 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

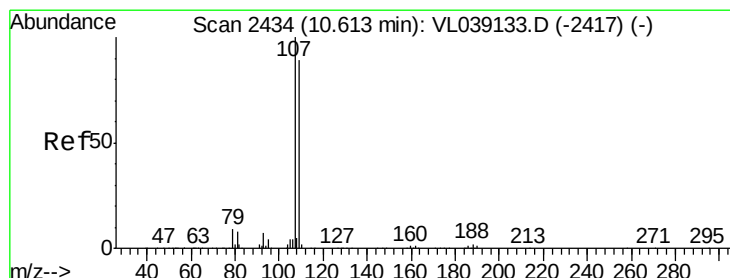
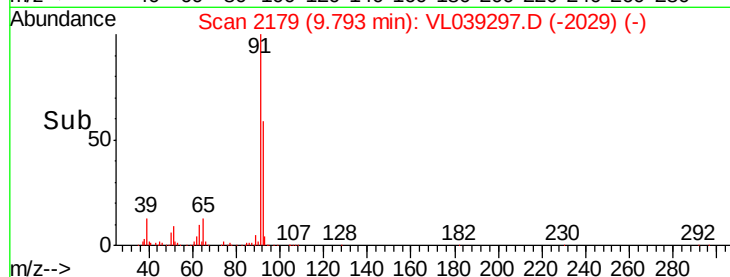
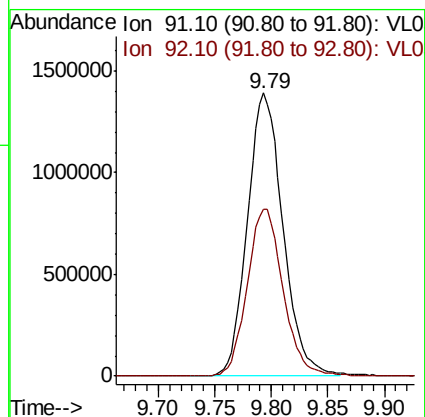
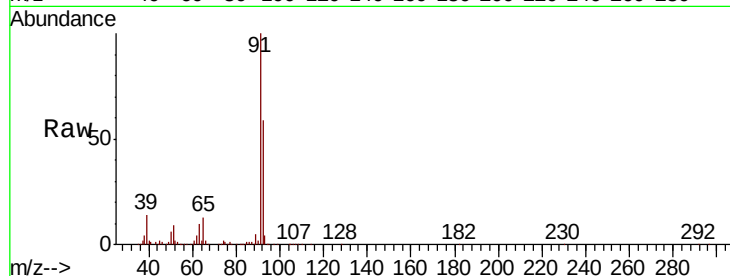
Acq: 15 Jun 2022 13:07 VSTDCCC010EC

Tot Ion: 91 Resp: 3043213

Ion Ratio Lower Upper

91 100

92 60.1 48.1 72.1



#54

1,2-Dibromoethane

Concen: 6.503 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.02 min

Lab File: VL039297.D

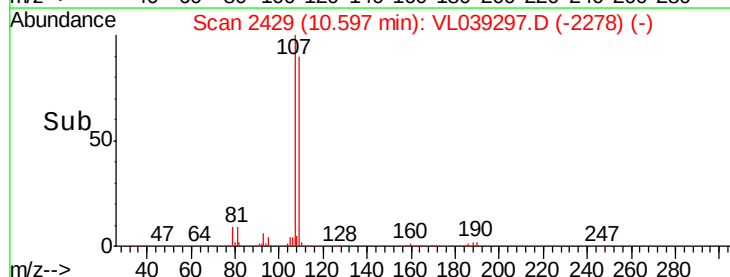
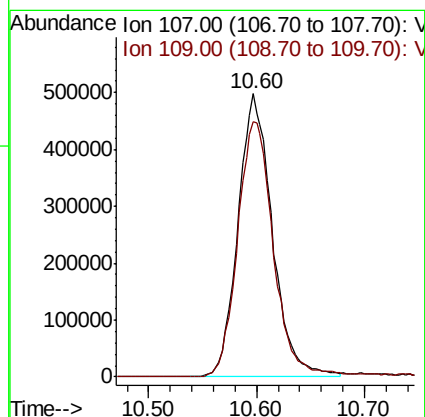
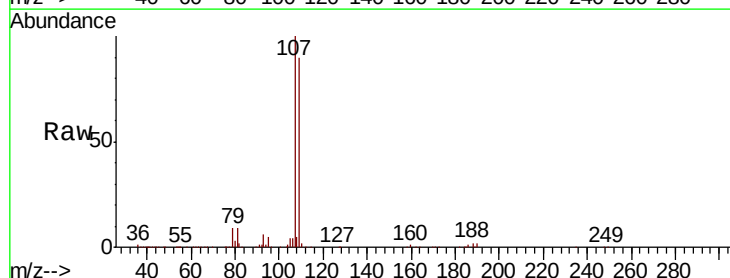
Acq: 15 Jun 2022 13:07

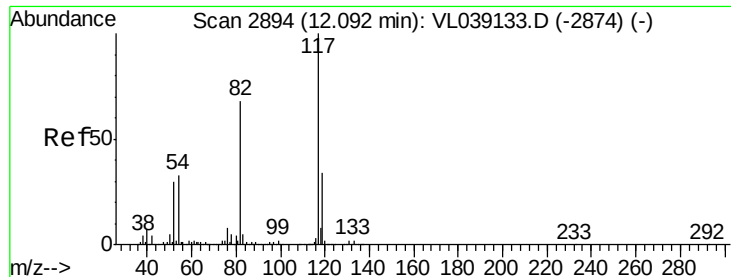
Tgt Ion: 107 Resp: 1099310

Ion Ratio Lower Upper

107 100

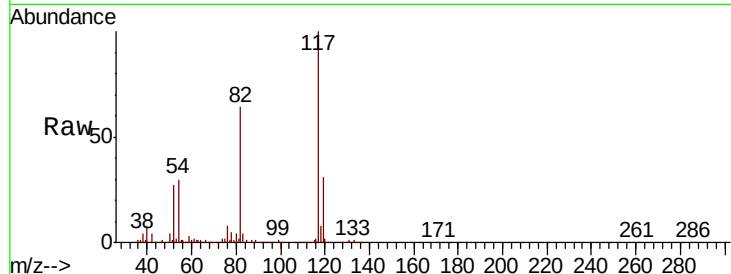
109 90.3 71.4 107.0



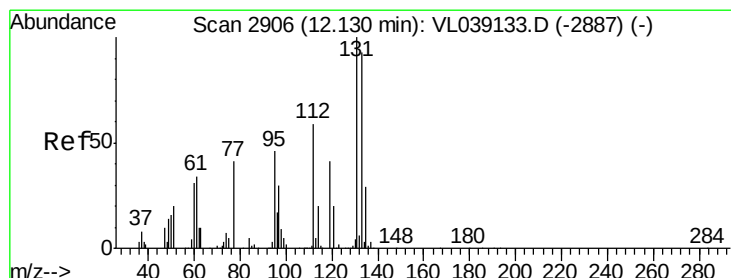
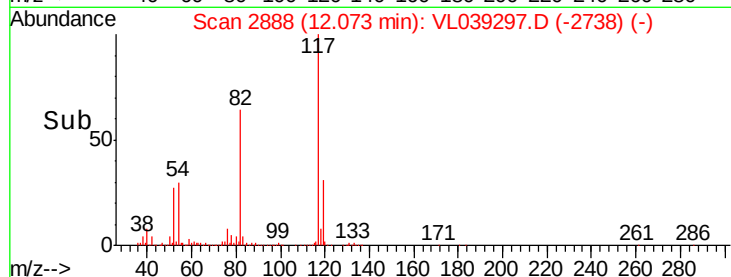
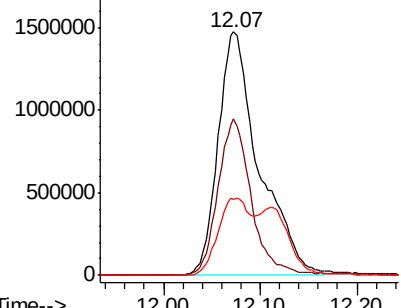


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
VSTDCCC010EC  
Acq: 15 Jun 2022 13:07

Tot Ion:117 Resp: 4348184  
Ion Ratio Lower Upper  
117 100  
82 52.9 55.1 82.7#  
119 25.8 24.7 37.1

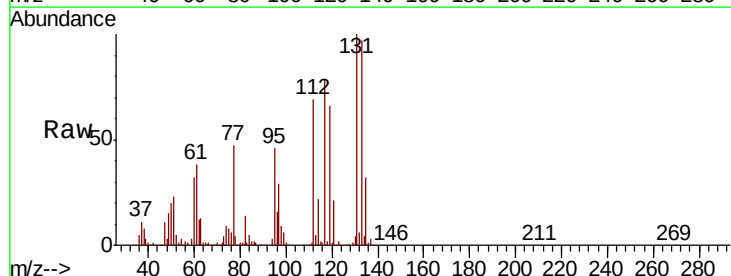


Abundance Ion 117.10 (116.80 to 117.80): V  
2000000  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

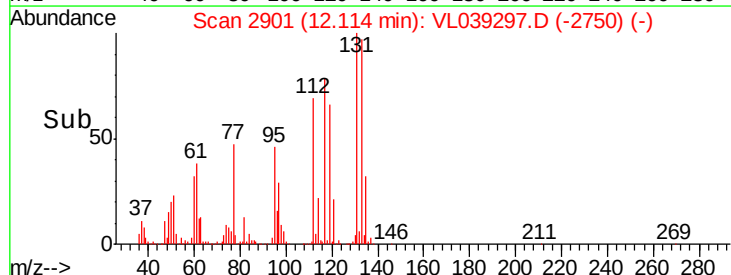
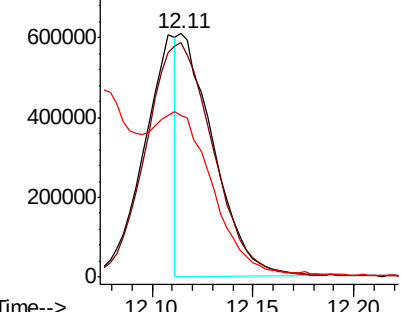


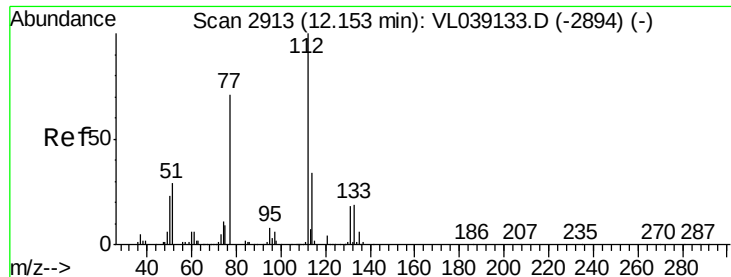
#56  
1,1,1,2-Tetrachloroethane  
Concen: 3.550 ppbv  
RT: 12.11 min Scan# 2901  
Delta R.T. -0.02 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

Tgt Ion:131 Resp: 730306  
Ion Ratio Lower Upper  
131 100  
133 190.4 78.6 117.8#  
119 125.2 51.7 77.5#



Abundance Ion 131.00 (130.70 to 131.70): V  
800000  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V

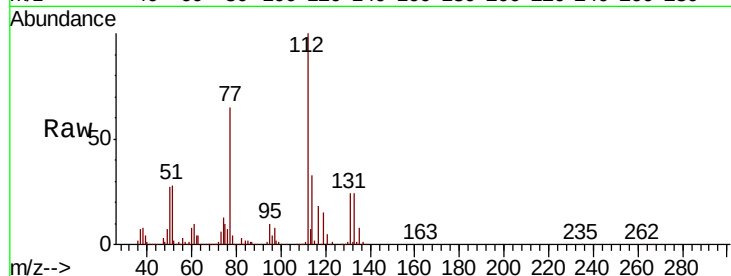




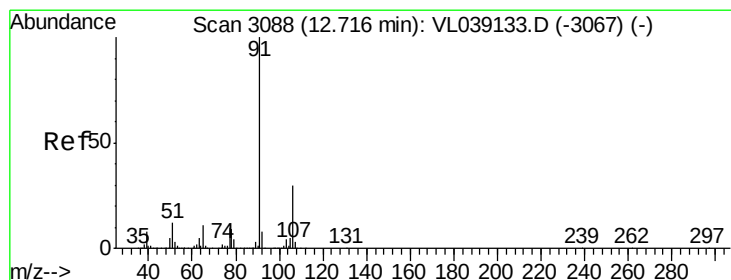
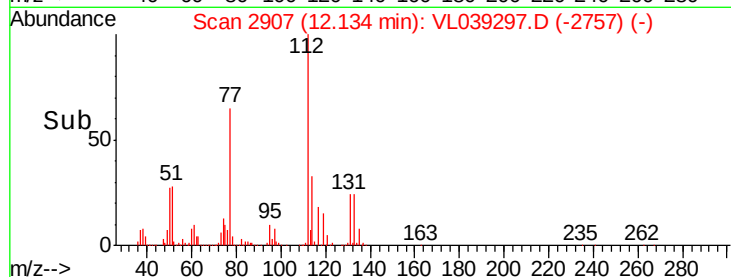
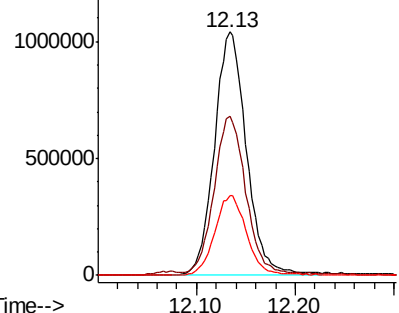
#57  
Chlorobenzene  
Concen: 7.184 ppbv  
RT: 12.13 min  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId : VSTDCCC010EC  
Acq: 15 Jun 2022 13:07

Tot Ion: 112 Resp: 2350476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 77  | 64.7  | 56.5  | 84.7  |
| 114 | 32.6  | 30.3  | 37.1  |



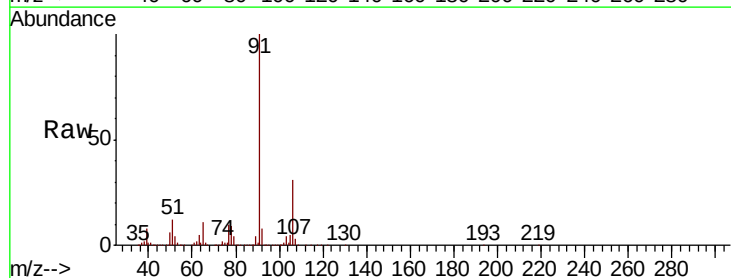
Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V



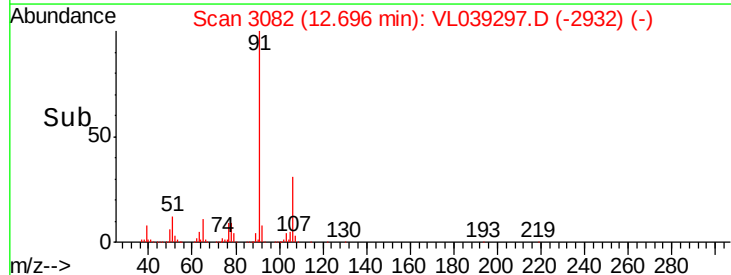
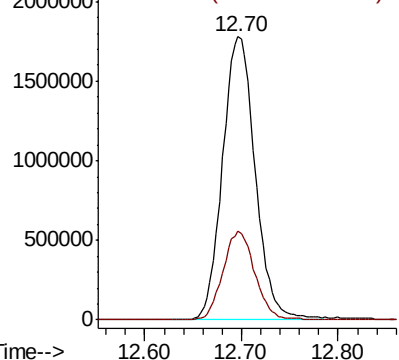
#58  
Ethyl Benzene  
Concen: 6.975 ppbv  
RT: 12.70 min Scan# 3082  
Delta R.T. -0.02 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

Tgt Ion: 91 Resp: 4177331

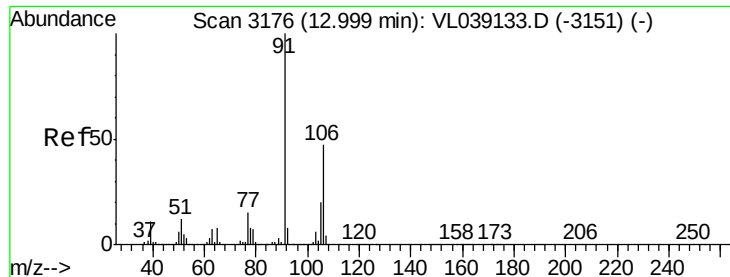
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 106 | 31.3  | 24.2  | 36.4  |



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V

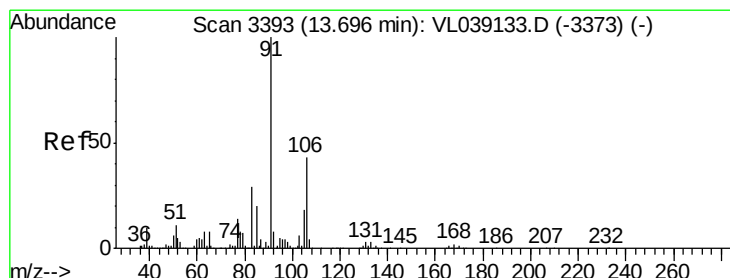
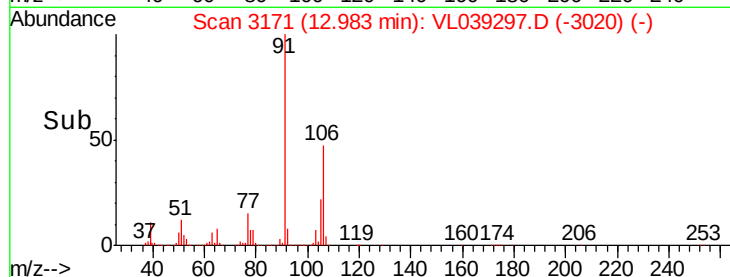
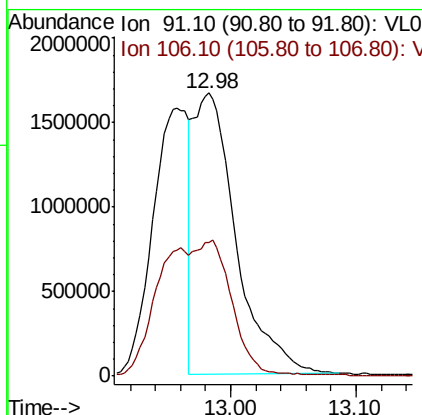
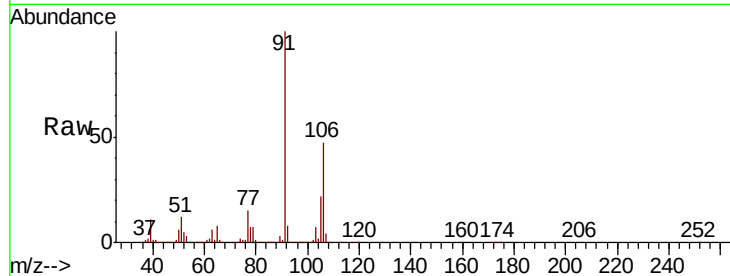






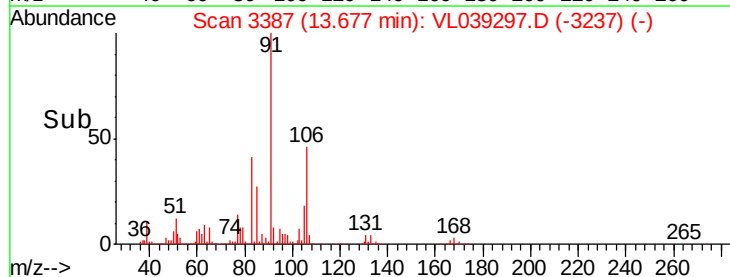
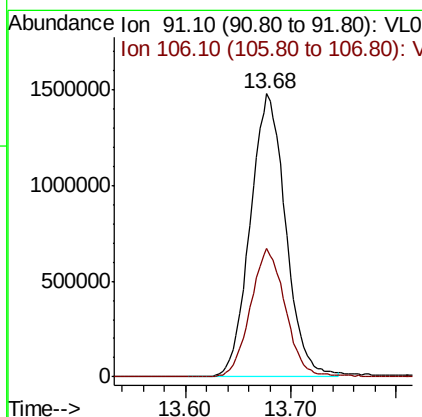
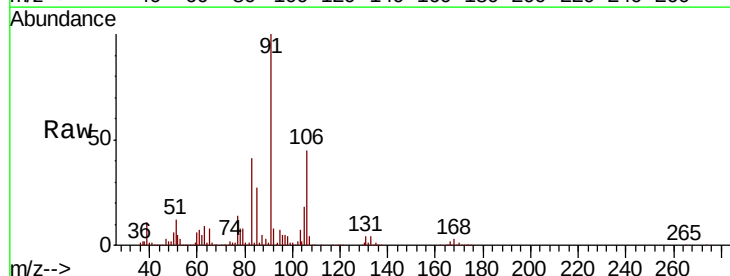
#59  
m/p-Xylene  
Concen: 7.444 ppbv  
RT: 12.98  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010EC  
Acq: 15 Jun 2022 13:07

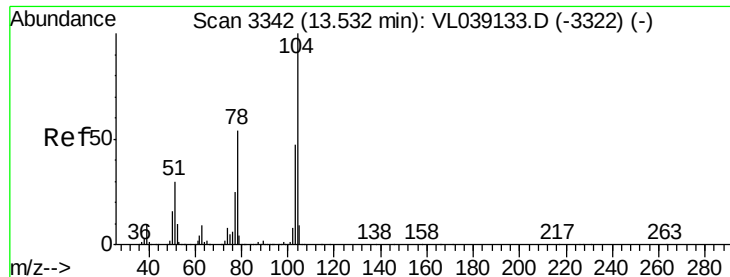
Tot Ion: 91 Resp: 3926392  
Ion Ratio Lower Upper  
91 100  
106 81.3 34.3 51.5#



#60  
o-Xylene  
Concen: 6.959 ppbv  
RT: 13.68 min Scan# 3387  
Delta R.T.: -0.02 min  
Lab File: VL039297.D  
Acq: 15 Jun 2022 13:07

Tgt Ion: 91 Resp: 3449180  
Ion Ratio Lower Upper  
91 100  
106 45.6 22.3 66.9





#61

Stvrene

Concen: 7.592 ppbv

RT: 13.51

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07 VSTDCCC010EC

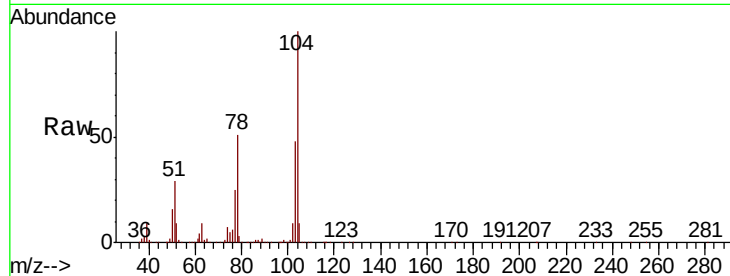
Tot Ion:104 Resp: 2014932

Ion Ratio Lower Upper

104 100

78 51.9 45.7 68.5

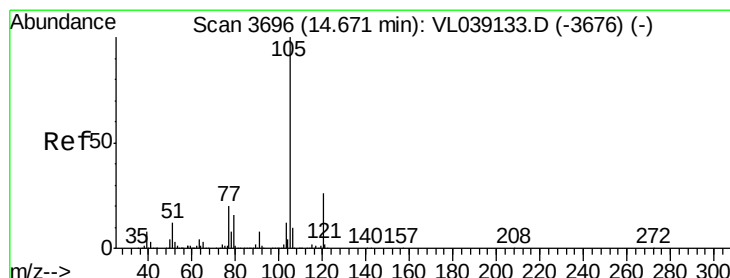
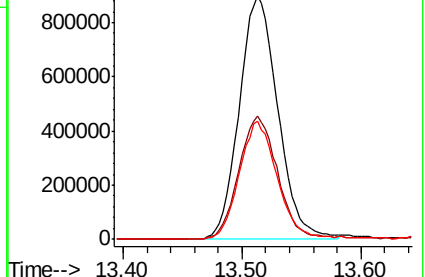
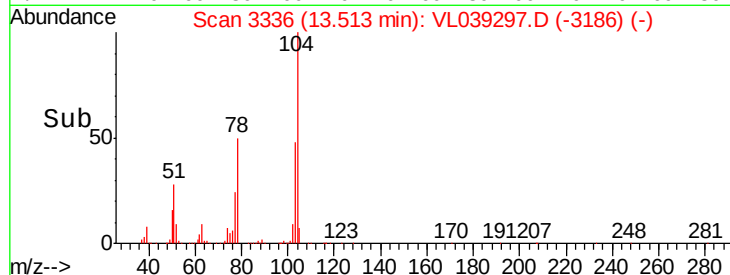
103 48.4 39.6 59.4



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: 7.354 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. -0.02 min

Lab File: VL039297.D

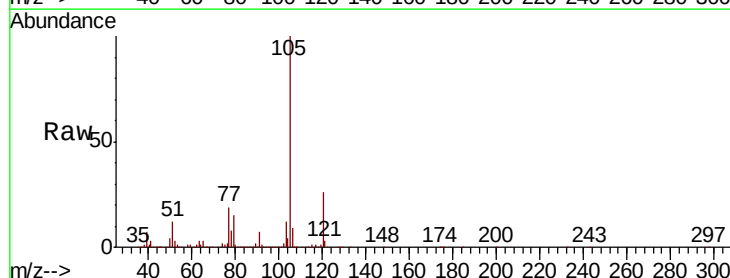
Acq: 15 Jun 2022 13:07

Tgt Ion:105 Resp: 5417055

Ion Ratio Lower Upper

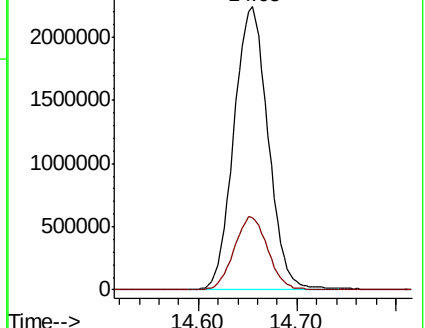
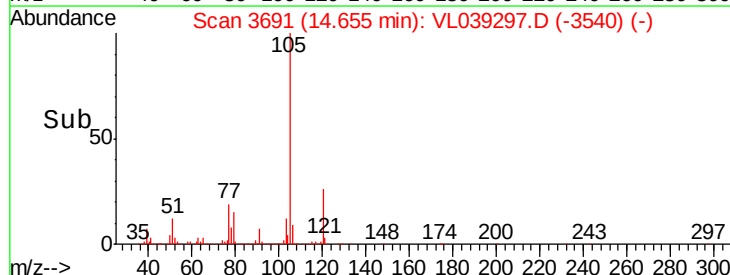
105 100

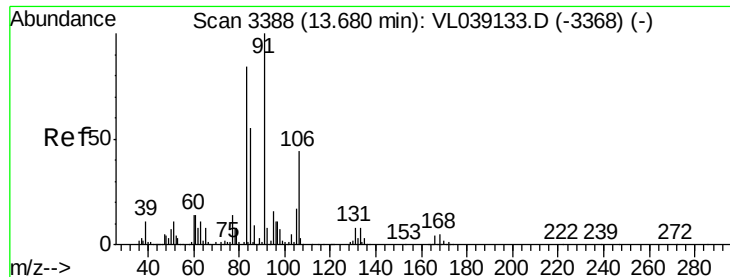
120 25.7 20.3 30.5



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: 7.879 ppbv

RT: 13.66

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07

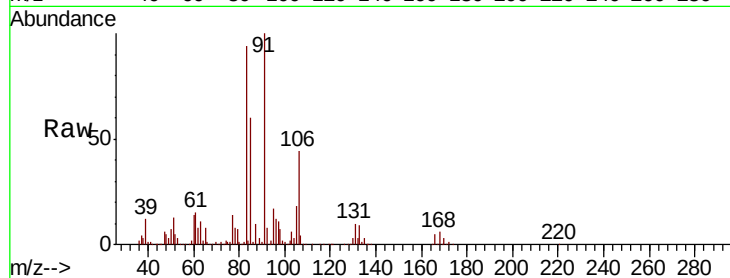
Tot Ion: 83 Resp: 2191800

Ion Ratio Lower Upper

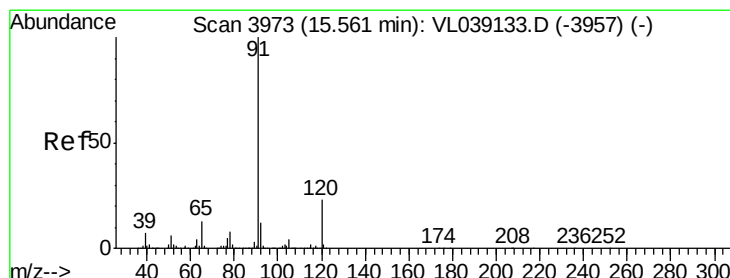
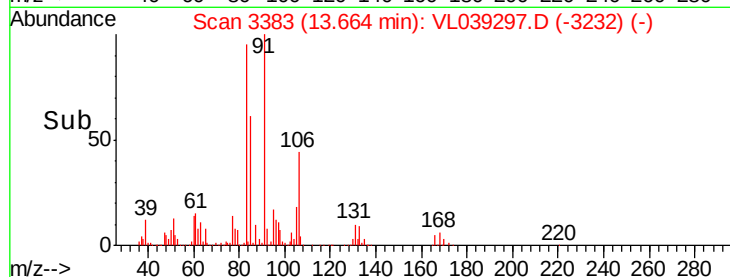
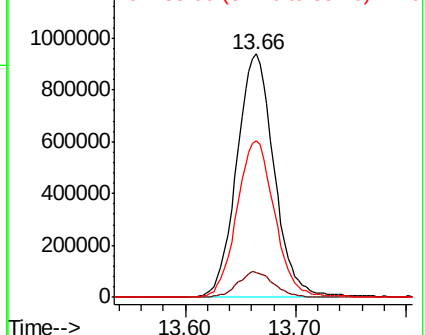
83 100

131 10.3 4.8 14.3

85 65.7 33.0 99.0



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 131.00 (130.70 to 131.70): V  
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.891 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.02 min

Lab File: VL039297.D

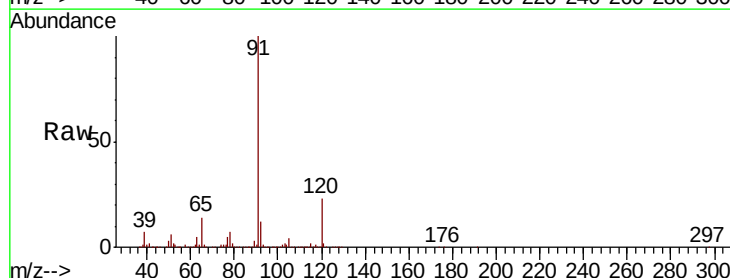
Acq: 15 Jun 2022 13:07

Tgt Ion:120 Resp: 1428941

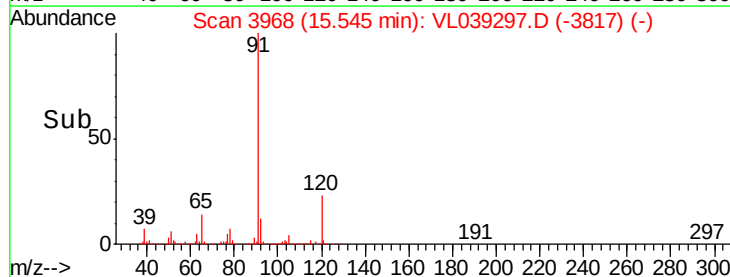
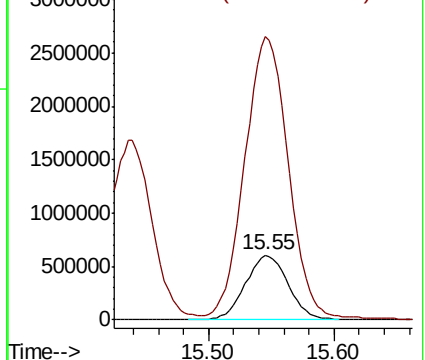
Ion Ratio Lower Upper

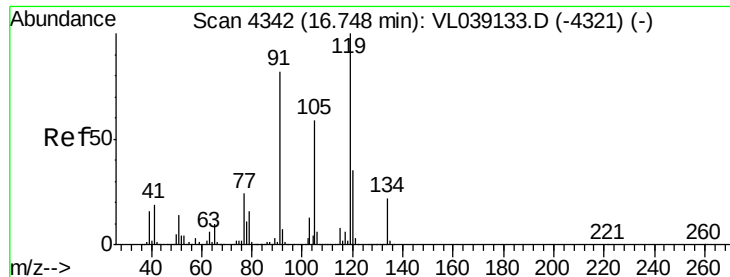
120 100

91 453.6 388.4 582.6



Abundance Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.374 ppbv

RT: 16.73

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07

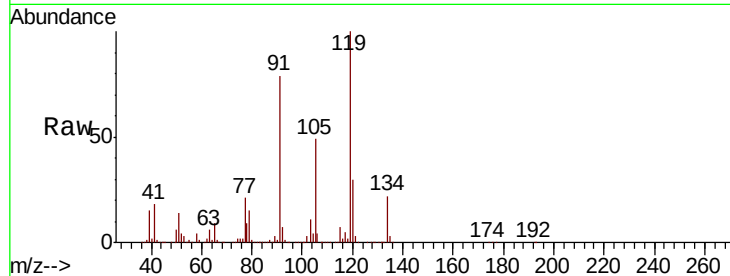
Tot Ion: 119 Resp: 4967272

Ion Ratio Lower Upper

119 100

91 79.5 67.1 100.7

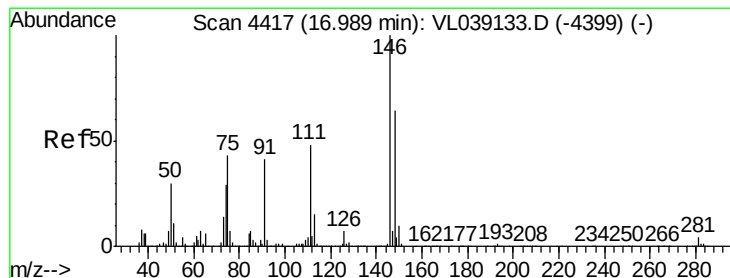
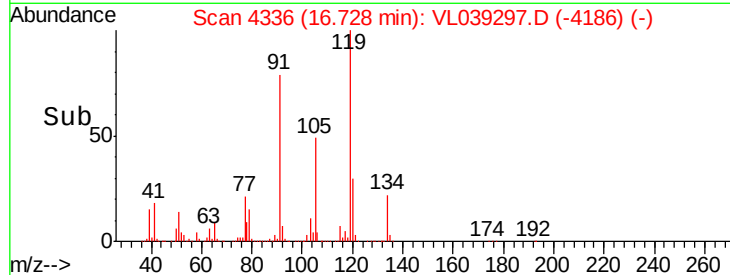
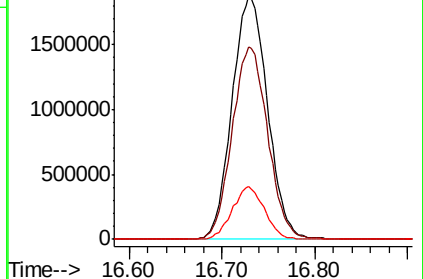
134 19.9 15.8 23.8



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: 3.615 ppbv

RT: 16.97 min Scan# 4412

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

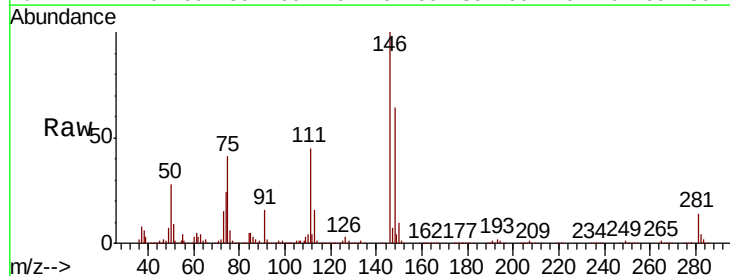
Tgt Ion: 91 Resp: 316609

Ion Ratio Lower Upper

91 100

126 17.5 13.4 20.0

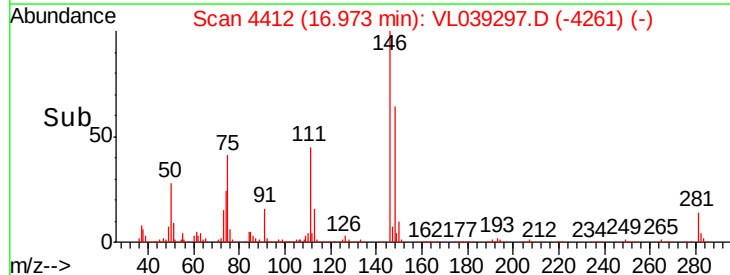
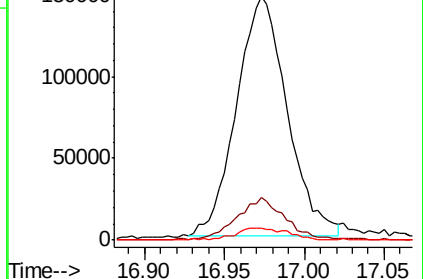
128 5.4 4.1 6.1

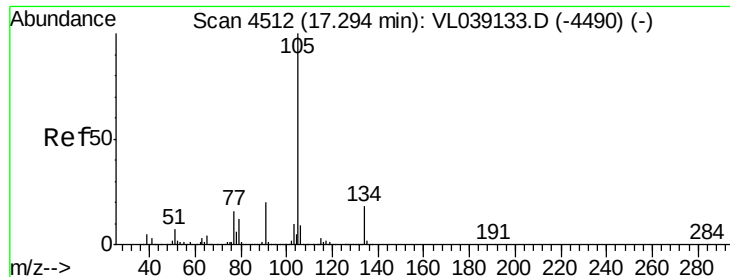


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.414 ppbv

RT: 17.28

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

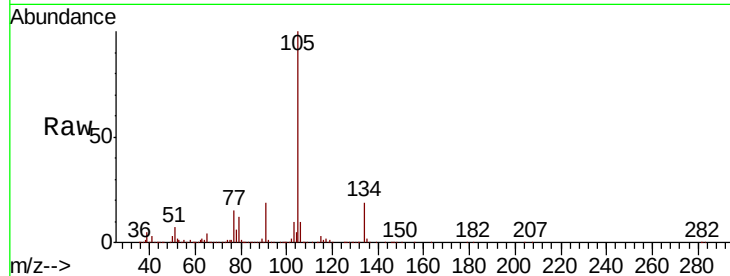
Acq: 15 Jun 2022 13:07

Tot Ion: 105 Resp: 6814201

Ion Ratio Lower Upper

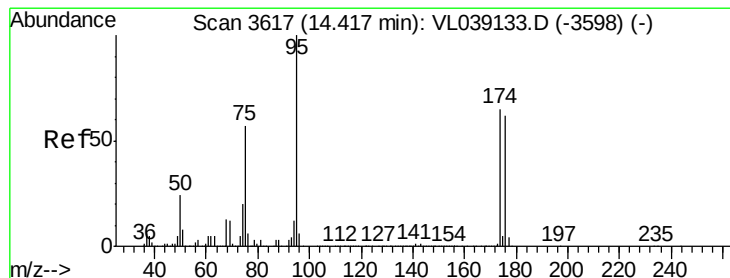
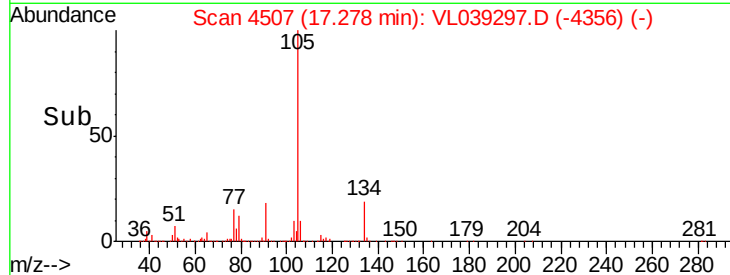
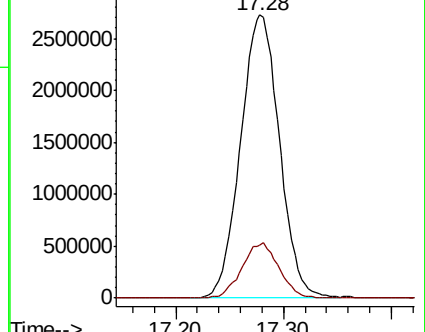
105 100

134 18.7 14.4 21.6



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: 7.743 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.02 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

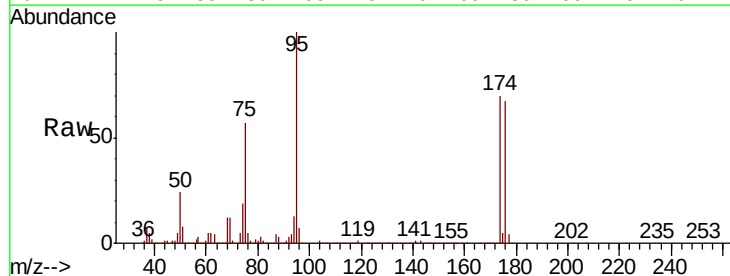
Tgt Ion: 95 Resp: 2783300

Ion Ratio Lower Upper

95 100

174 70.9 53.8 80.8

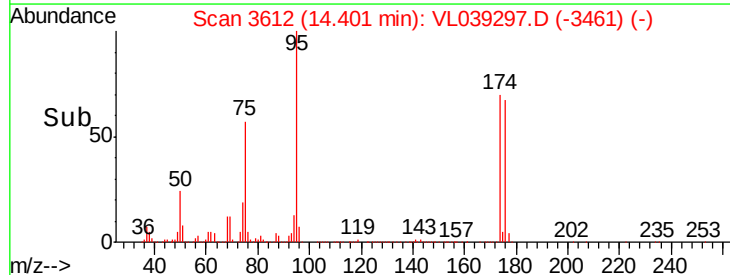
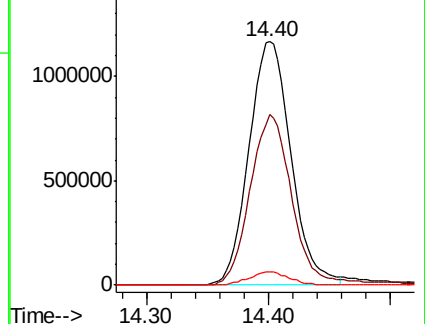
175 5.5 4.1 6.1

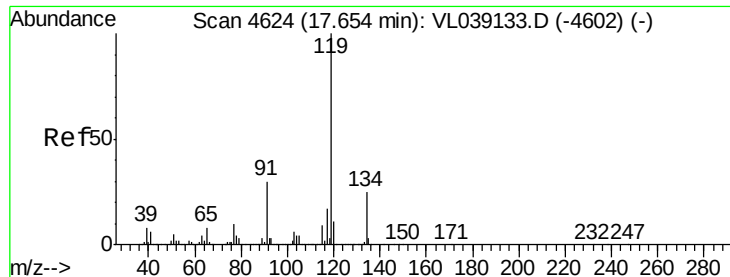


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

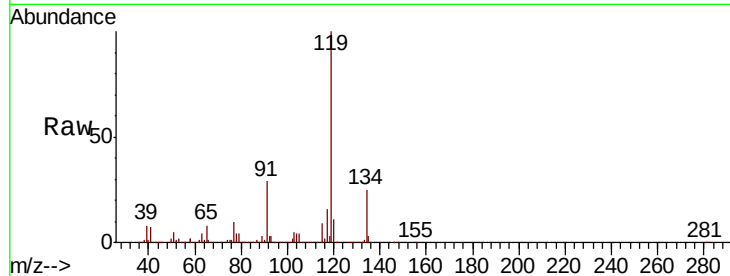




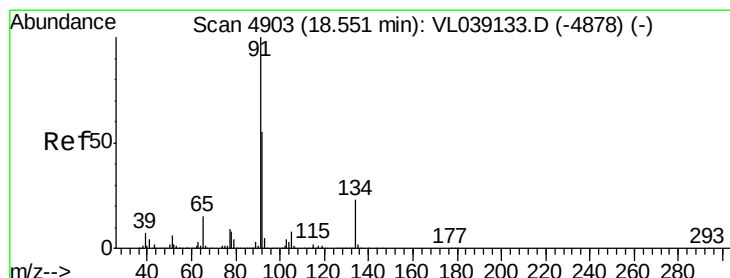
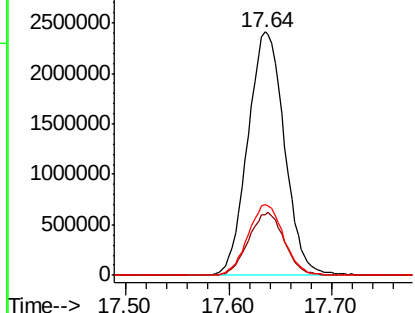
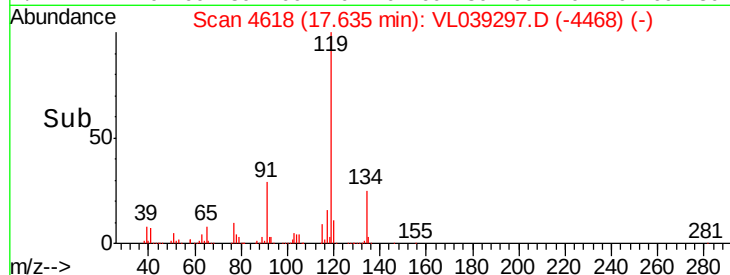
#69  
 p-Isopropyltoluene  
 Concen: 7.652 ppbv  
 RT: 17.64 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

Tot Ion: 119 Resp: 5933658

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 25.3  | 20.4  | 30.6  |
| 91  | 28.3  | 24.2  | 36.4  |



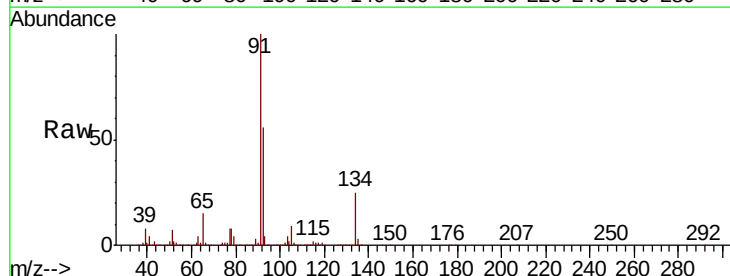
Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V



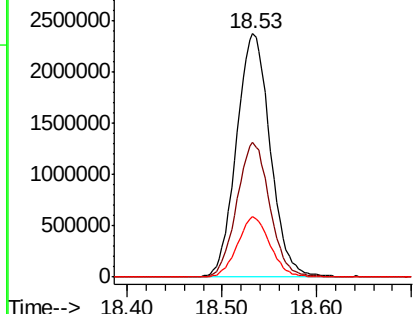
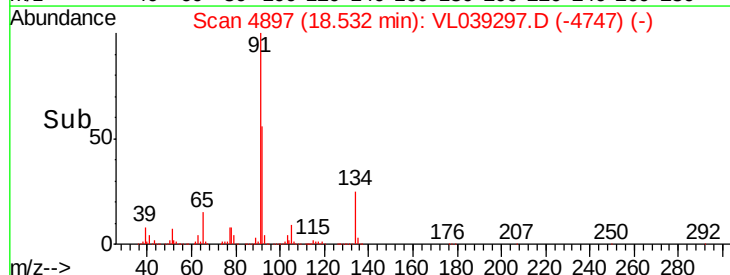
#70  
 n-Butylbenzene  
 Concen: 7.368 ppbv  
 RT: 18.53 min Scan# 4897  
 Delta R.T.: -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

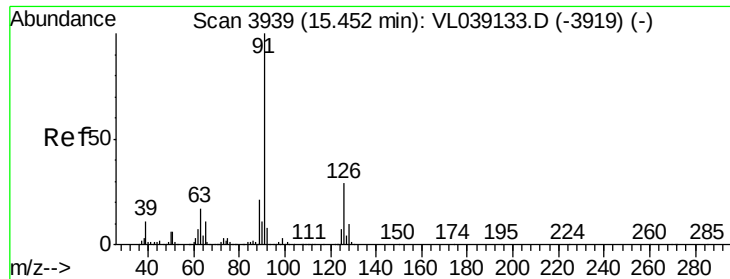
Tgt Ion: 91 Resp: 5864101

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 54.4  | 43.6  | 65.4  |
| 134 | 24.1  | 17.7  | 26.5  |



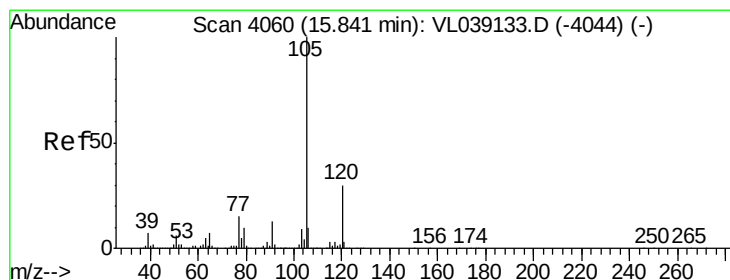
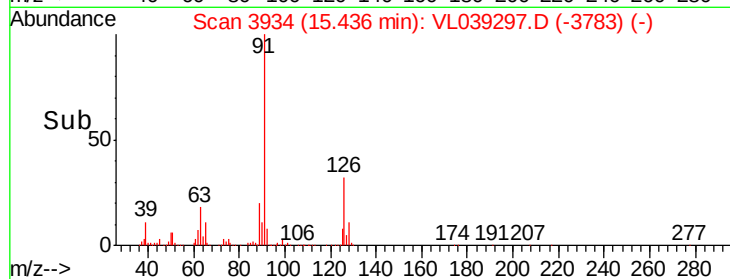
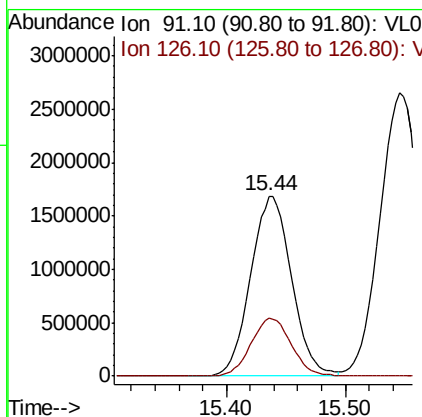
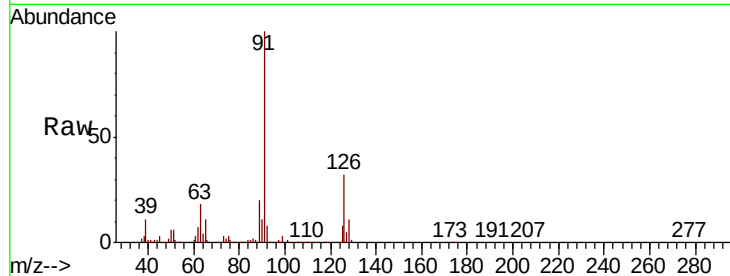
Abundance Ion 91.10 (90.80 to 91.80): V  
 Ion 92.10 (91.80 to 92.80): V  
 Ion 134.20 (133.90 to 134.90): V





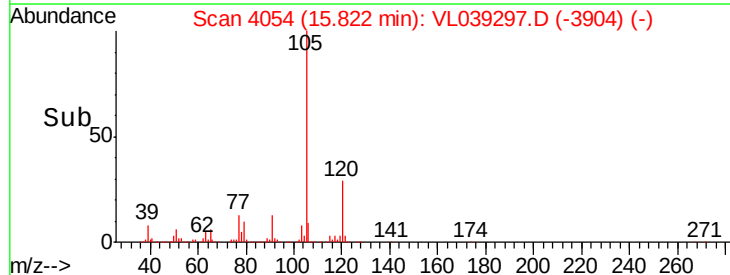
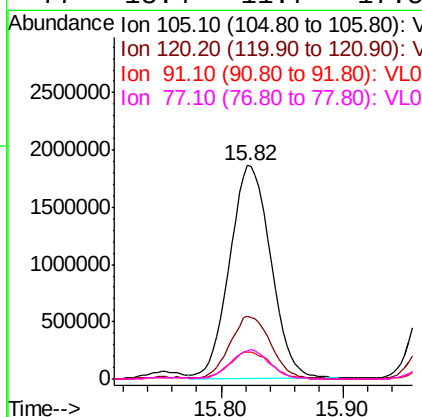
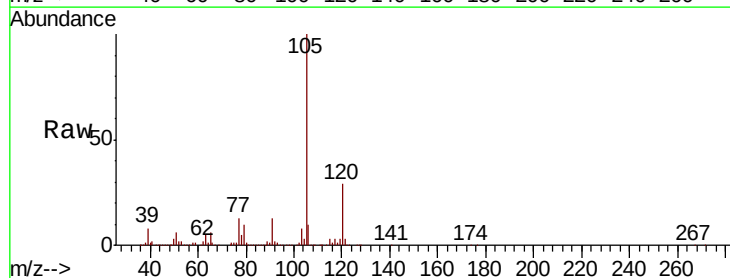
#71  
 2-Chlorotoluene  
 Concen: 7.138 ppbv  
 RT: 15.44  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

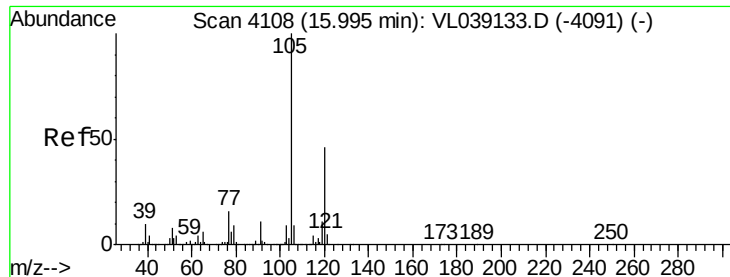
Tot Ion: 91 Resp: 4009846  
 Ion Ratio Lower Upper  
 91 100  
 126 32.3 12.2 48.6



#72  
 4-Ethyltoluene  
 Concen: 7.465 ppbv  
 RT: 15.82 min Scan# 4054  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

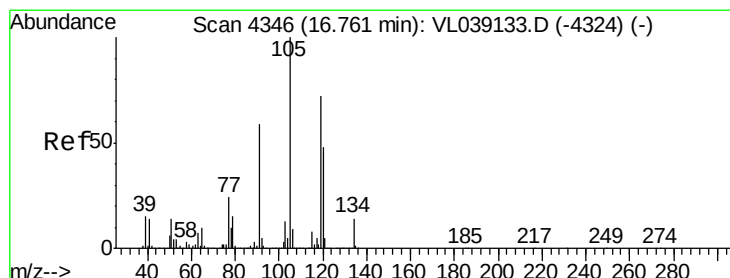
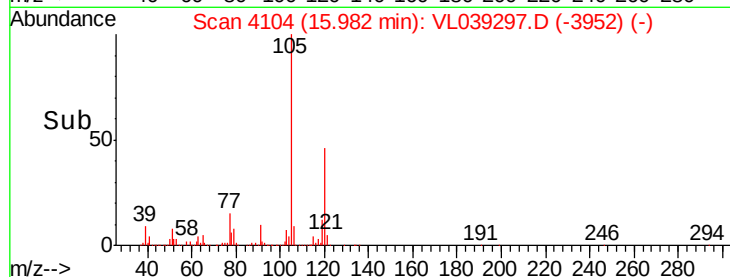
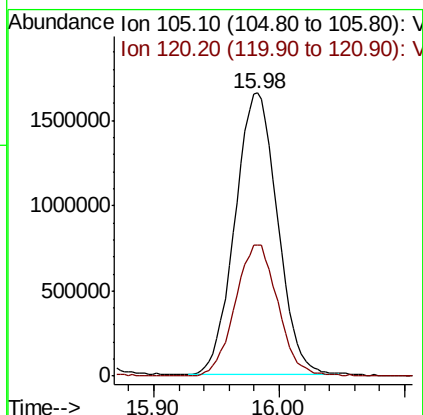
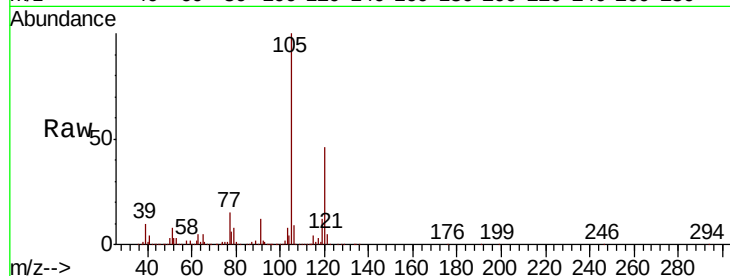
Tgt Ion:105 Resp: 4336115  
 Ion Ratio Lower Upper  
 105 100  
 120 29.6 23.9 35.9  
 91 12.6 10.6 16.0  
 77 13.4 11.7 17.5





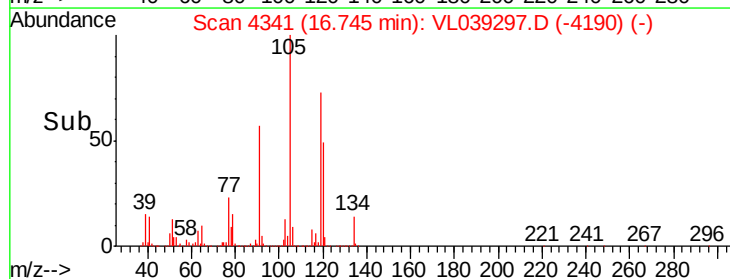
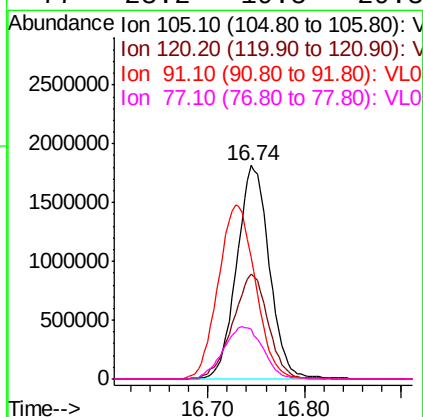
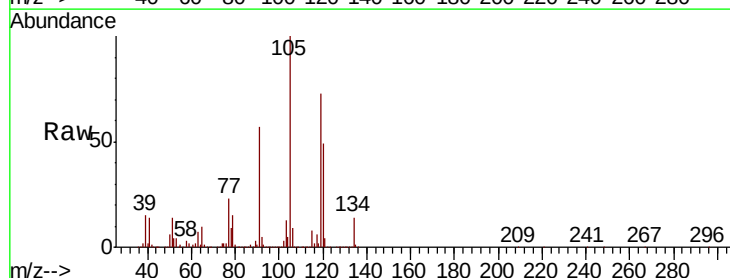
#73  
 1,3,5-Trimethylbenzene  
 Concen: 7.441 ppbv  
 RT: 15.98 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

Tot Ion:105 Resp: 3898117  
 Ion Ratio Lower Upper  
 105 100  
 120 46.3 36.7 55.1

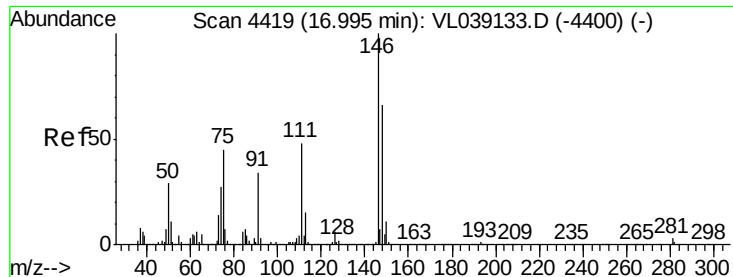


#74  
 1,2,4-Trimethylbenzene  
 Concen: 7.271 ppbv  
 RT: 16.74 min Scan# 4341  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion:105 Resp: 4251035  
 Ion Ratio Lower Upper  
 105 100  
 120 49.1 38.1 57.1  
 91 56.8 47.4 71.0  
 77 23.2 19.5 29.3

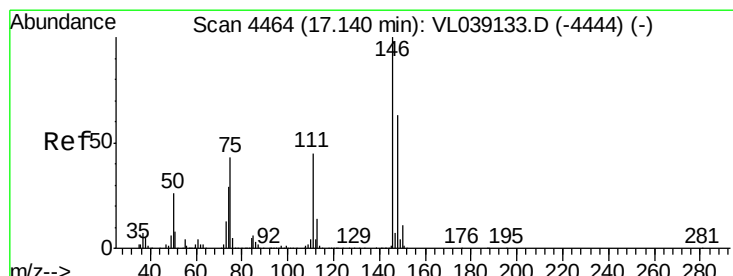
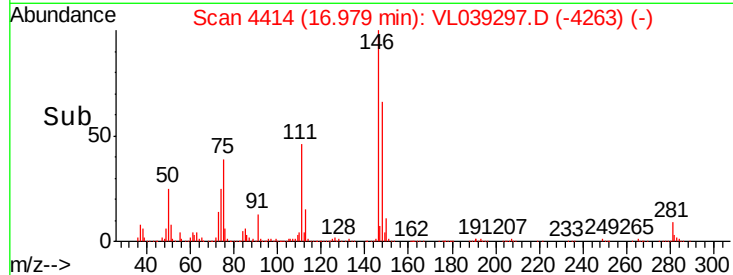
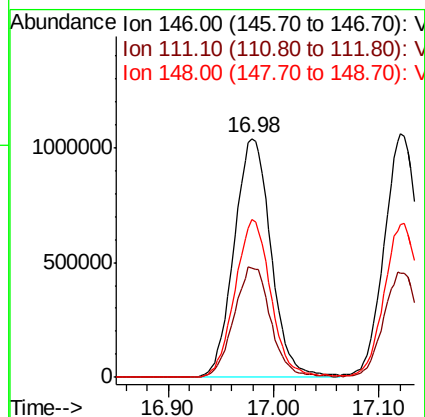
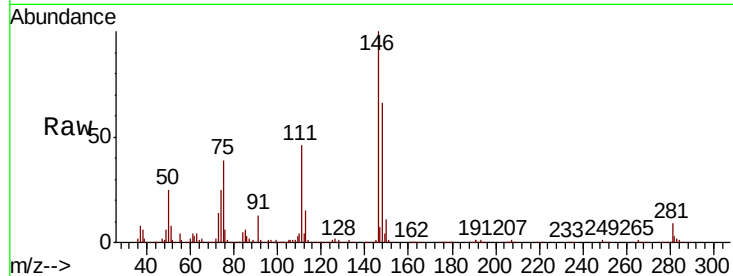






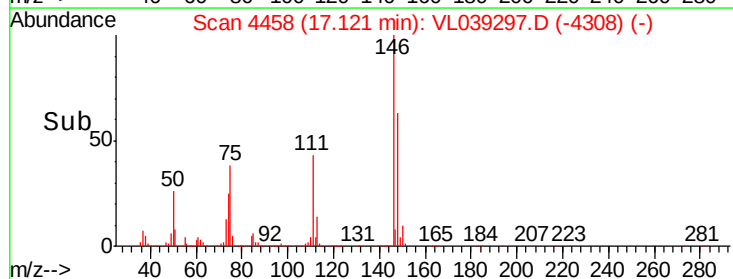
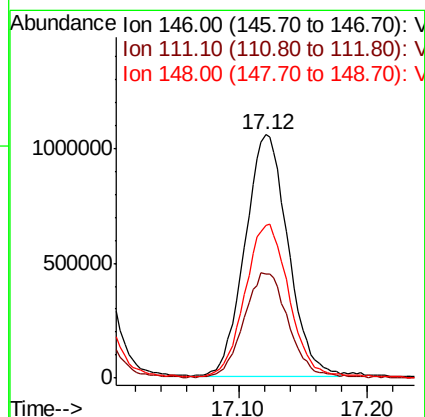
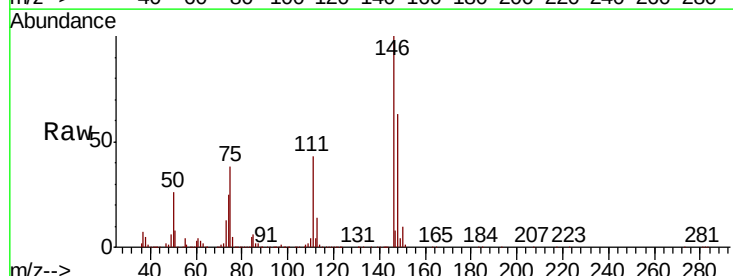
#75  
 1,3-Dichlorobenzene  
 Concen: 7.628 ppbv  
 RT: 16.98  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

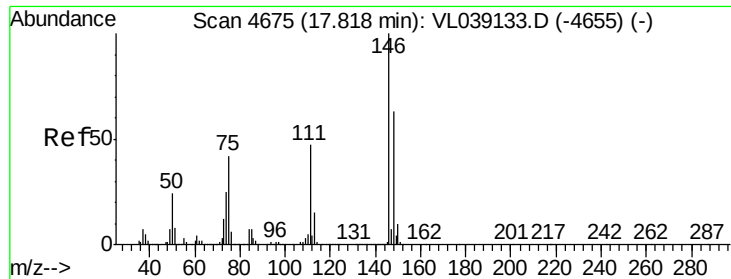
Tot Ion:146 Resp: 2524161  
 Ion Ratio Lower Upper  
 146 100  
 111 46.0 23.8 71.4  
 148 64.4 32.4 97.0



#76  
 1,4-Dichlorobenzene  
 Concen: 7.380 ppbv  
 RT: 17.12 min Scan# 4458  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

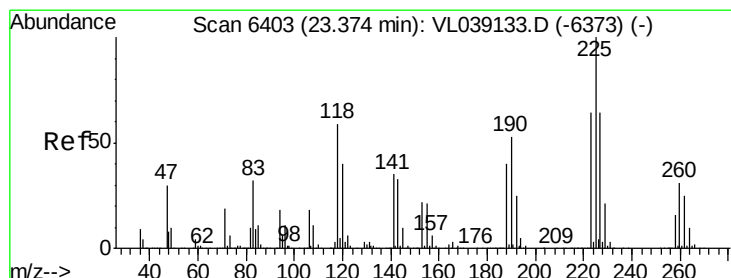
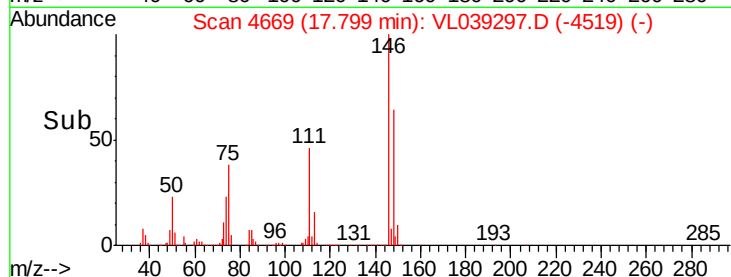
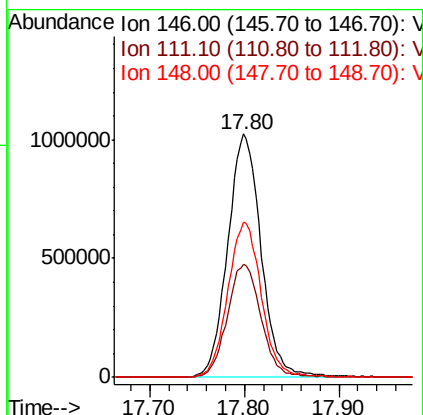
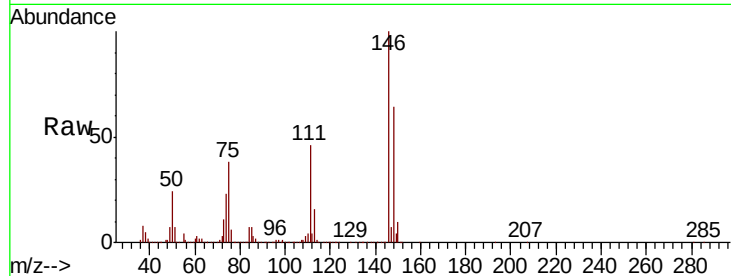
Tgt Ion:146 Resp: 2436722  
 Ion Ratio Lower Upper  
 146 100  
 111 45.5 23.6 71.0  
 148 66.5 33.7 101.0





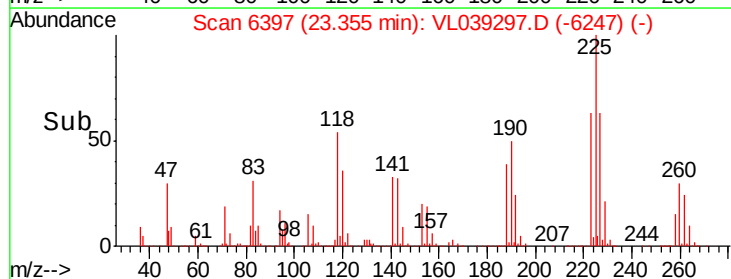
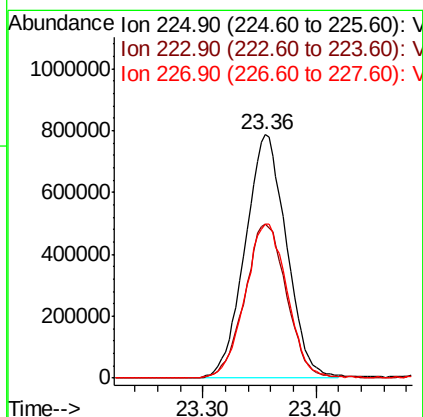
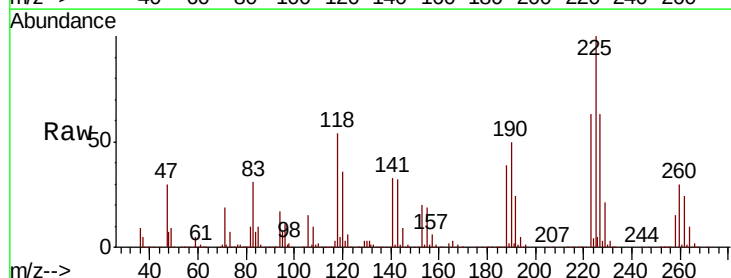
#77  
 1,2-Dichlorobenzene  
 Concen: 7.445 ppbv  
 RT: 17.80 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 13:07

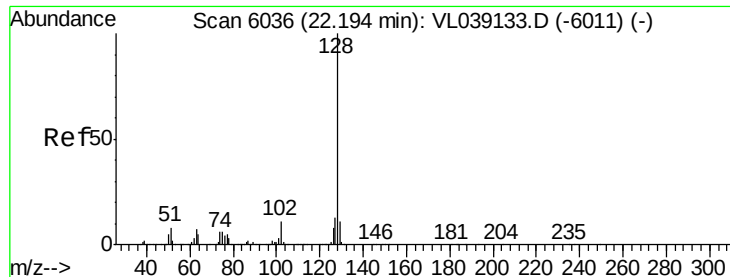
Tot Ion:146 Resp: 2483227  
 Ion Ratio Lower Upper  
 146 100  
 111 47.6 24.4 73.4  
 148 64.7 32.1 96.5



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.553 ppbv  
 RT: 23.36 min Scan# 6397  
 Delta R.T. -0.02 min  
 Lab File: VL039297.D  
 Acq: 15 Jun 2022 13:07

Tgt Ion:225 Resp: 1998630  
 Ion Ratio Lower Upper  
 225 100  
 223 63.9 51.4 77.0  
 227 64.7 50.6 75.8





#79

Naphthalene

Concen: 8.155 ppbv

RT: 22.17

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 13:07

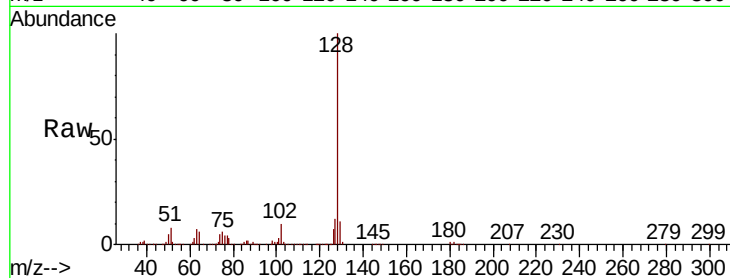
Tot Ion:128 Resp: 3670221

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 128 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 127 | 12.4 | 10.4 | 15.6 |
|-----|------|------|------|

|     |      |     |      |
|-----|------|-----|------|
| 129 | 11.2 | 9.0 | 13.6 |
|-----|------|-----|------|

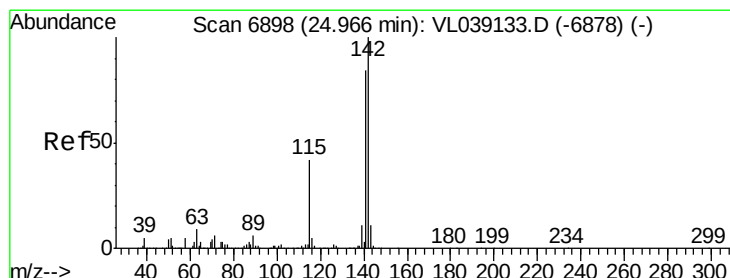
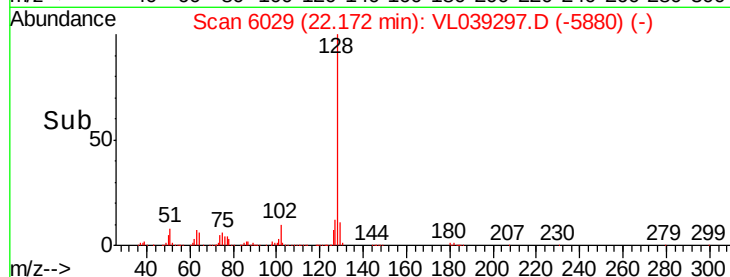
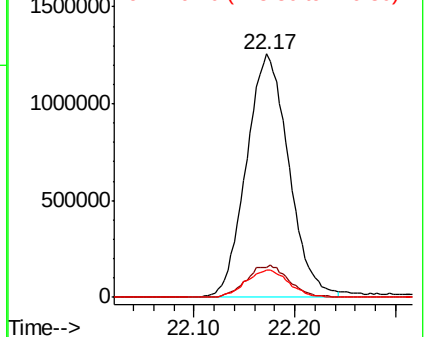


Abundance

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: 5.509 ppbv

RT: 24.95 min Scan# 6894

Delta R.T. -0.01 min

Lab File: VL039297.D

Acq: 15 Jun 2022 13:07

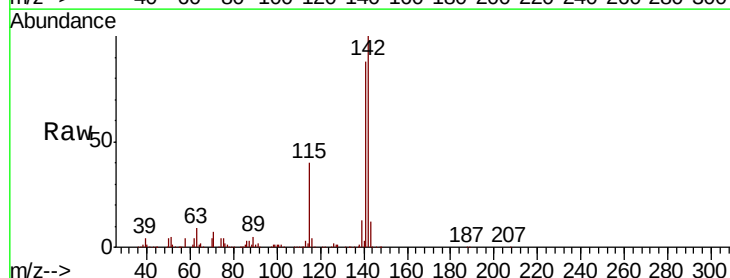
Tgt Ion:142 Resp: 921244

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 142 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 141 | 86.0 | 64.6 | 96.8 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 115 | 40.0 | 32.7 | 49.1 |
|-----|------|------|------|

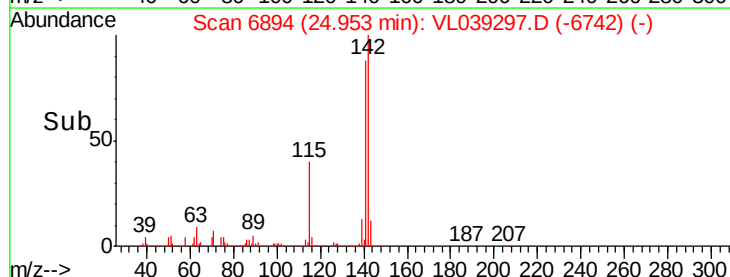
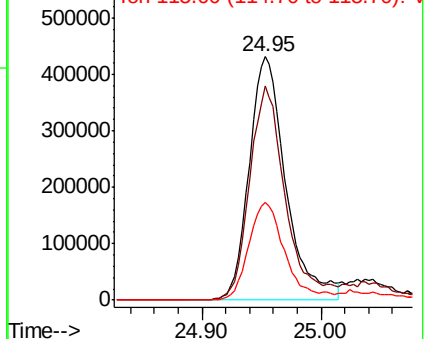


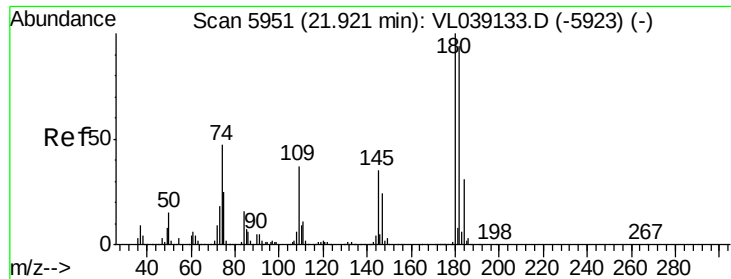
Abundance

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: 4.012 ppbv  
 RT: 21.90  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010EC  
 Acq: 15 Jun 2022 15:07

Tot Ion:180 Resp: 1143901  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 0.0 0.0  
 184 0.0 0.0 0.0

