

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL012422\  
 Data File : VL038262.D  
 Acq On : 24 Jan 2022 16:36  
 Operator : SY/AP  
 Sample : VL0124ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0124ABS01

Quant Time: Jan 24 22:04:20 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 14:12:48 2022

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 856154   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2285324  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2561978  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1622147  | 8.34     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.40% |

#### Target Compounds

|                                |      |     |         |        | Qvalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1708094 | 9.372  | ppbv 99   |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1460247 | 8.568  | ppbv 99   |
| 4) Chloromethane               | 3.15 | 50  | 500612  | 8.537  | ppbv 98   |
| 5) Vinyl Chloride              | 3.27 | 62  | 498732  | 8.522  | ppbv 98   |
| 6) Bromomethane                | 3.48 | 94  | 286993  | 9.071  | ppbv 99   |
| 7) Chloroethane                | 3.57 | 64  | 175364  | 8.871  | ppbv 94   |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1221046 | 8.658  | ppbv 99   |
| 9) Propene                     | 3.02 | 41  | 475840  | 8.576  | ppbv 96   |
| 10) Heptane                    | 8.13 | 43  | 1270541 | 8.901  | ppbv 100  |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1232436 | 8.680  | ppbv 98   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 916243  | 8.537  | ppbv 98   |
| 13) Ethanol                    | 3.62 | 45  | 46254   | 7.766  | ppbv 99   |
| 14) Bromoethene                | 3.75 | 108 | 376350  | 8.974  | ppbv 99   |
| 15) Acetone                    | 3.86 | 43  | 612048  | 8.110  | ppbv 98   |
| 16) 1,3-Butadiene              | 3.34 | 39  | 474726  | 8.765  | ppbv 100  |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 702881  | 8.485  | ppbv 96   |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 403747  | 8.651  | ppbv 98   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 374726  | 7.937  | ppbv # 97 |
| 20) Methylene Chloride         | 4.36 | 84  | 342520  | 7.803  | ppbv 98   |
| 21) Allyl Chloride             | 4.42 | 41  | 606776  | 9.087  | ppbv 100  |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 438945  | 9.102  | ppbv 99   |
| 23) Vinyl Acetate              | 5.08 | 43  | 1010106 | 9.205  | ppbv 100  |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 851398  | 8.709  | ppbv 99   |
| 25) Ethyl Acetate              | 5.69 | 43  | 1973884 | 9.341  | ppbv 100  |
| 26) Hexane                     | 5.70 | 57  | 899042  | 9.147  | ppbv 99   |
| 27) Carbon Disulfide           | 4.56 | 76  | 1050459 | 9.135  | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 901604  | 8.843  | ppbv 99   |
| 29) Chloroform                 | 5.76 | 83  | 1453224 | 9.058  | ppbv 99   |
| 30) Cyclohexane                | 7.14 | 84  | 759355  | 8.873  | ppbv 98   |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 928195  | 10.826 | ppbv 97   |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 1430683 | 8.928  | ppbv 99   |
| 34) 2-Butanone                 | 5.26 | 43  | 665694  | 8.907  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 1502319 | 9.365  | ppbv 98   |
| 36) Benzene                    | 6.90 | 78  | 1914561 | 9.471  | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 1106921 | 9.560  | ppbv 99   |
| 38) Trichloroethene            | 7.84 | 130 | 687305  | 9.127  | ppbv 99   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 757618  | 9.244  | ppbv 99   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 178849  | 9.067  | ppbv 85   |
| 41) Tetrahydrofuran            | 6.06 | 42  | 490426  | 9.762  | ppbv 99   |
| 42) Bromodichloromethane       | 7.80 | 83  | 1611515 | 9.381  | ppbv 100  |
| 43) Methyl Methacrylate        | 8.02 | 69  | 722559  | 10.105 | ppbv 99   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL012422\  
 Data File : VL038262.D  
 Acq On : 24 Jan 2022 16:36  
 Operator : SY/AP  
 Sample : VL0124ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

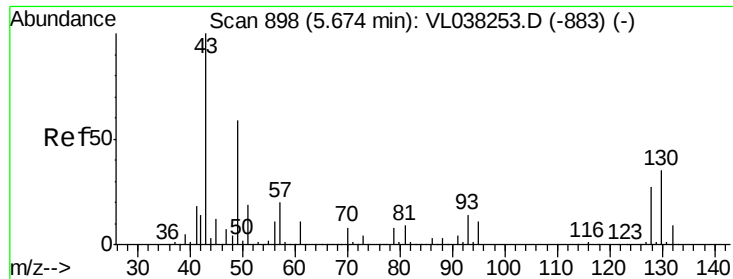
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0124ABS01

Quant Time: Jan 24 22:04:20 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL012422AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 24 14:12:48 2022  
 QLast Update : Mon Jan 24 14:12:48 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 3198000  | 8.977  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 646808   | 11.134 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 805432   | 10.391 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 765510   | 9.506  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1330000  | 9.810  | ppbv   | 100      |
| 49) Bromoform                 | 13.05 | 173  | 1029806  | 10.536 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 1276037  | 9.571  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 564552   | 9.615  | ppbv   | 96       |
| 52) Tetrachloroethene         | 11.23 | 164  | 624750   | 8.967  | ppbv   | 95       |
| 53) Toluene                   | 9.82  | 91   | 2168425  | 9.691  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1138497  | 9.944  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 854813   | 7.623  | ppbv   | 96       |
| 57) Chlorobenzene             | 12.15 | 112  | 1556666  | 7.593  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.72 | 91   | 2922192  | 7.761  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 2745859  | 8.548  | ppbv # | 50       |
| 60) o-Xylene                  | 13.70 | 91   | 2284176  | 7.645  | ppbv   | 99       |
| 61) Styrene                   | 13.53 | 104  | 1219960  | 8.749  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.67 | 105  | 3051377  | 7.661  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 1638234  | 7.410  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.57 | 120  | 780419   | 8.145  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 2592486  | 7.903  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.00 | 91   | 141273   | 9.480  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 3603674  | 7.897  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 2916895  | 8.352  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 2933617  | 8.576  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 2387335  | 8.092  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 2629931  | 8.417  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 2314758  | 8.238  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 2381188  | 8.044  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1329044  | 8.367  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 1302200  | 8.467  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1230073  | 8.337  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 646120   | 6.299  | ppbv   | 100      |
| 79) Naphthalene               | 22.20 | 128  | 1130119  | 8.166  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.98 | 142  | 197563   | 13.126 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 613403   | 7.535  | ppbv   | 100      |

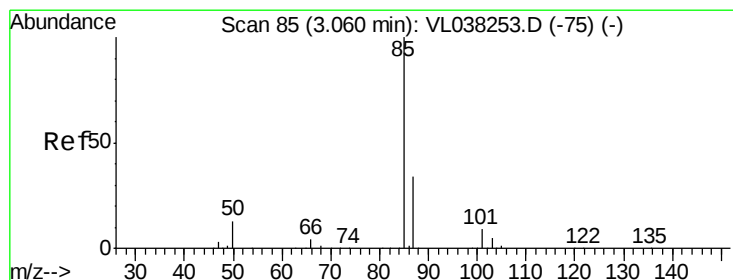
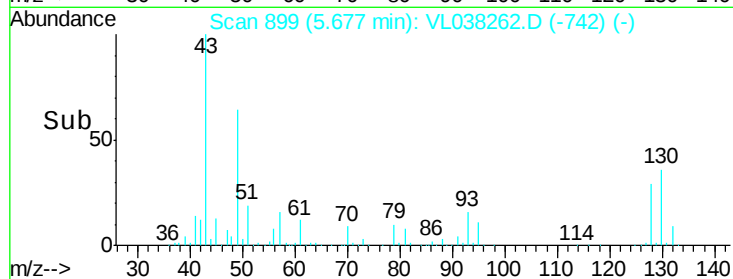
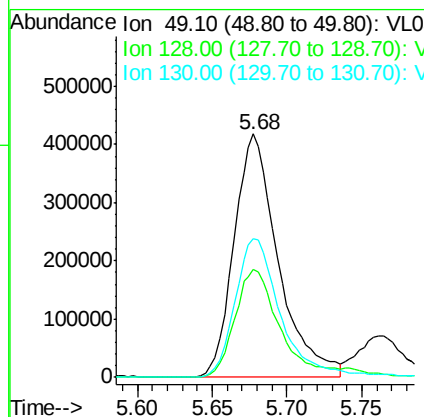
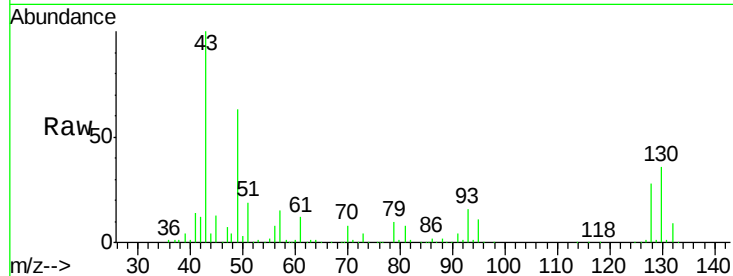
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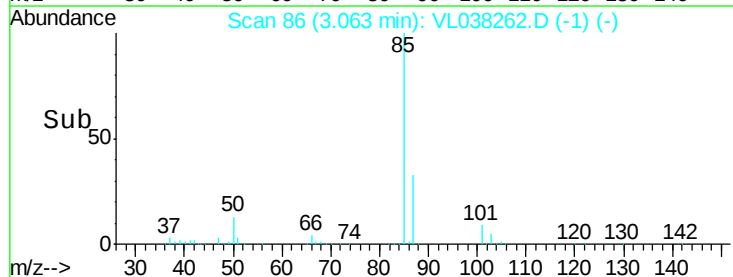
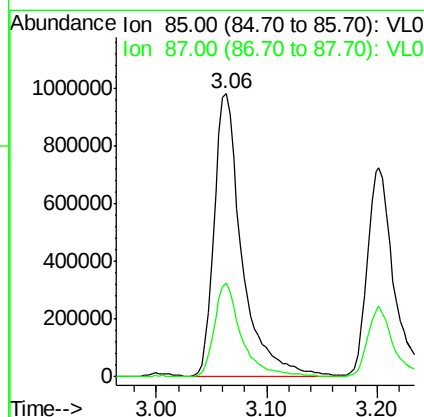
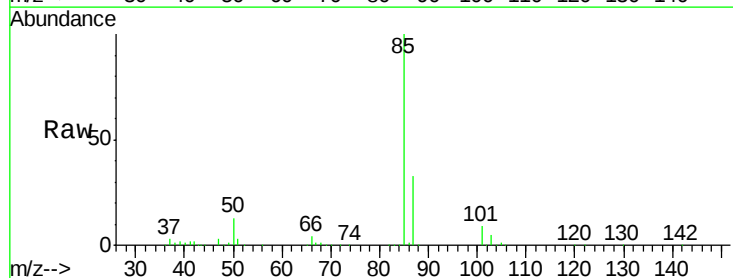
#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.68  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

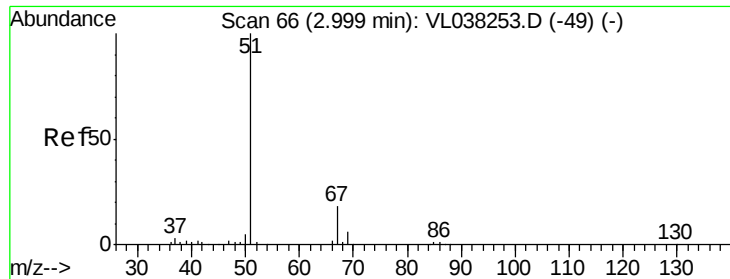
Tgt Ion: 49 Resp: 856154  
 Ion Ratio Lower Upper  
 49 100  
 128 48.8 24.5 73.5  
 130 60.2 30.1 90.5



#2  
 Dichlorodifluoromethane  
 Concen: 9.372 ppbv  
 RT: 3.06 min Scan# 86  
 Delta R.T.: 0.00 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

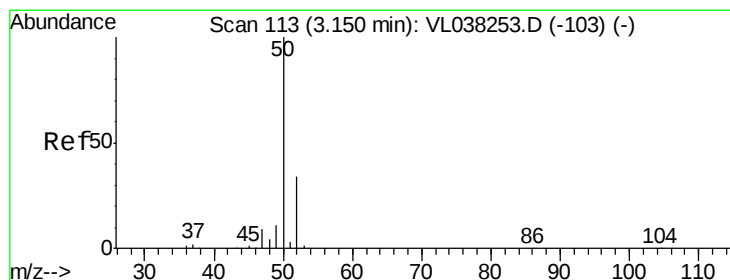
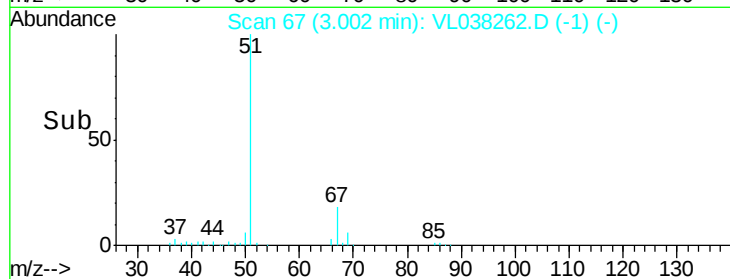
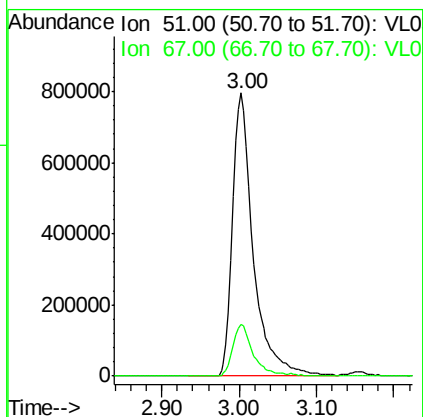
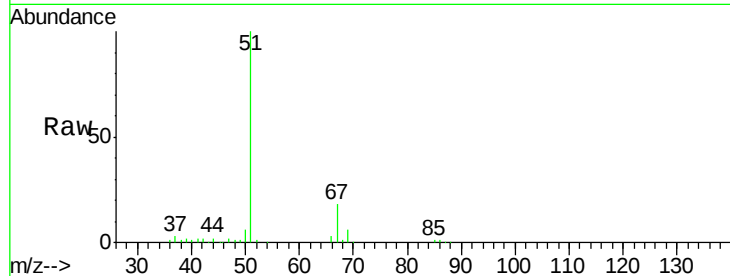
Tgt Ion: 85 Resp: 1708094  
 Ion Ratio Lower Upper  
 85 100  
 87 33.3 27.0 40.6





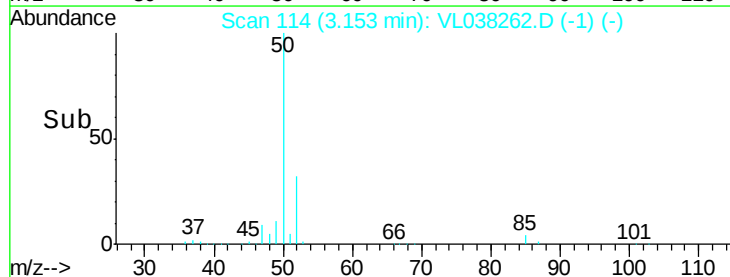
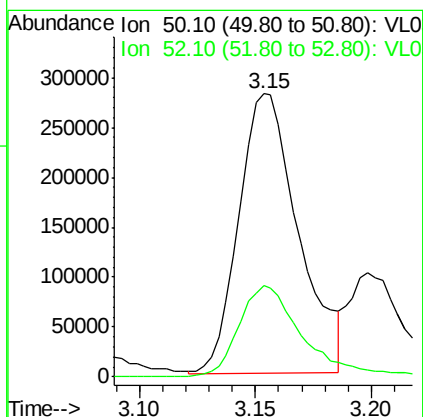
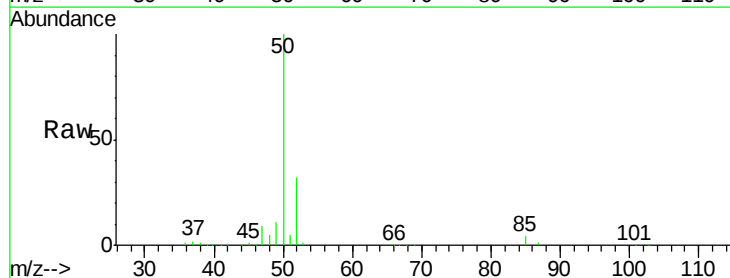
#3  
 Chlorodifluoromethane  
 Concen: 8.568 ppbv  
 RT: 3.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:30

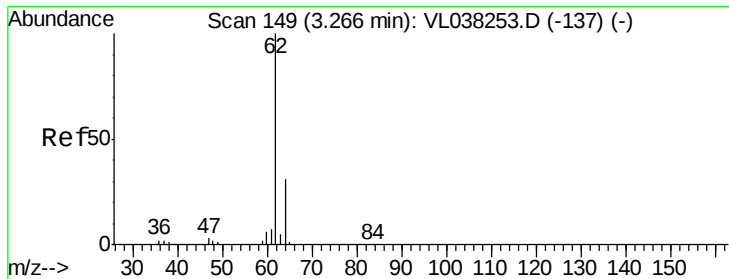
Tgt Ion: 51 Resp: 1460247  
 Ion Ratio Lower Upper  
 51 100  
 67 18.3 14.4 21.6



#4  
 Chloromethane  
 Concen: 8.537 ppbv  
 RT: 3.15 min Scan# 114  
 Delta R.T. 0.00 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 50 Resp: 500612  
 Ion Ratio Lower Upper  
 50 100  
 52 32.9 27.1 40.7





#5

Vinyl Chloride

Concen: 8.522 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VL0124ABS01

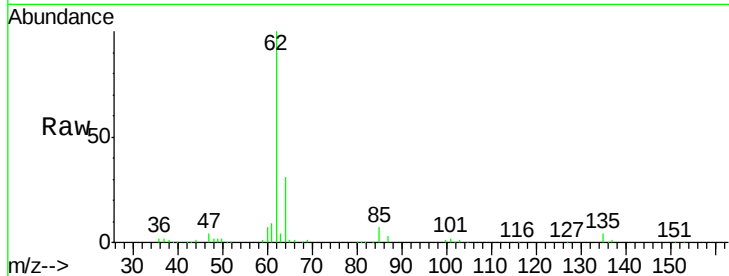
Acq: 24 Jan 2022 16:36

Tgt Ion: 62 Resp: 498732

Ion Ratio Lower Upper

62 100

64 31.4 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.27

300000

250000

200000

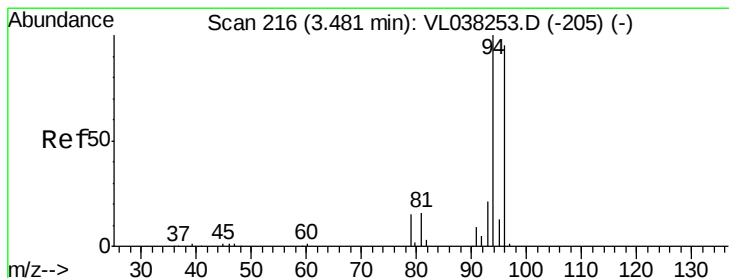
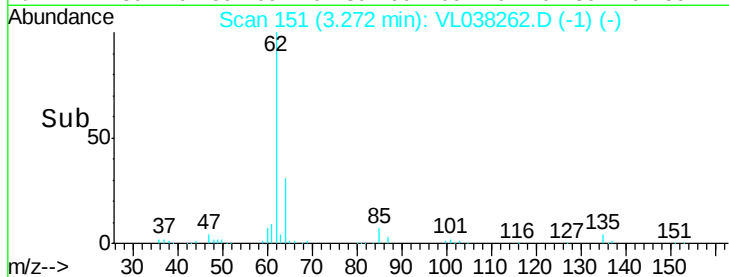
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 9.071 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.00 min

Lab File: VL038262.D

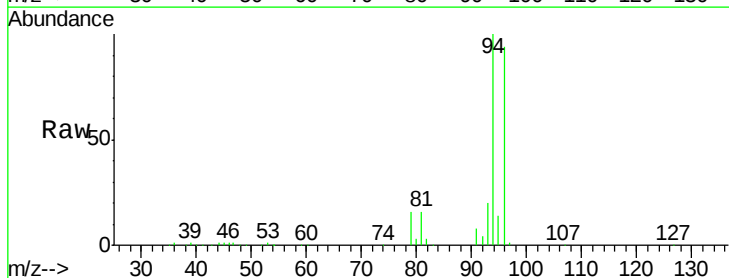
Acq: 24 Jan 2022 16:36

Tgt Ion: 94 Resp: 286993

Ion Ratio Lower Upper

94 100

96 93.9 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.48

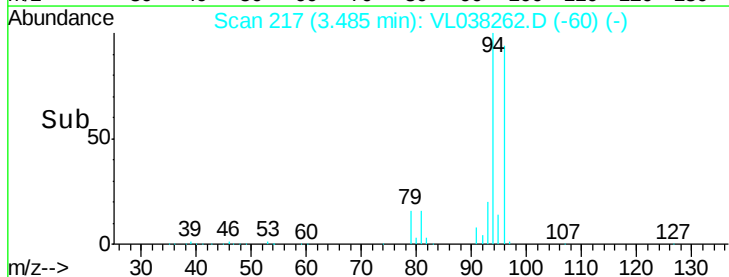
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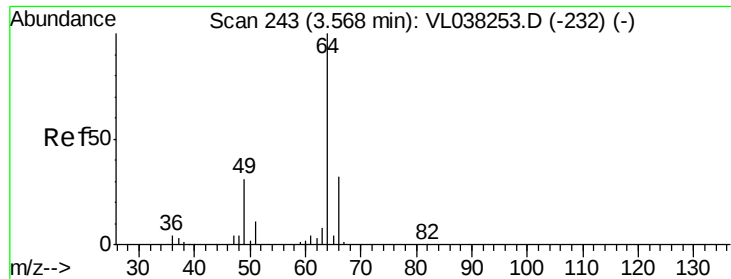
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.871 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

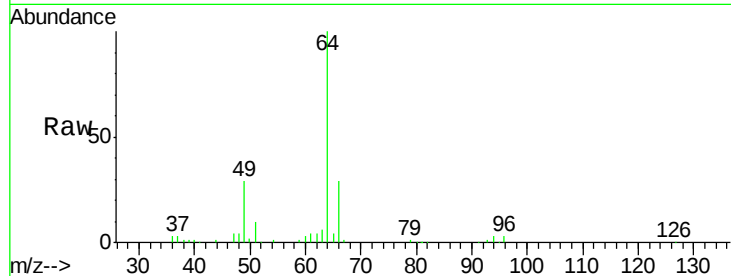
Acq: 24 Jan 2022 16:30 VL0124ABS01

Tgt Ion: 64 Resp: 175364

Ion Ratio Lower Upper

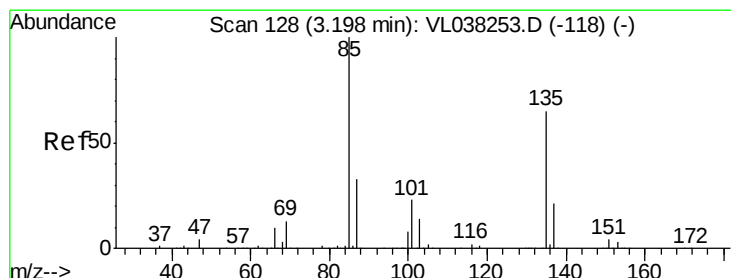
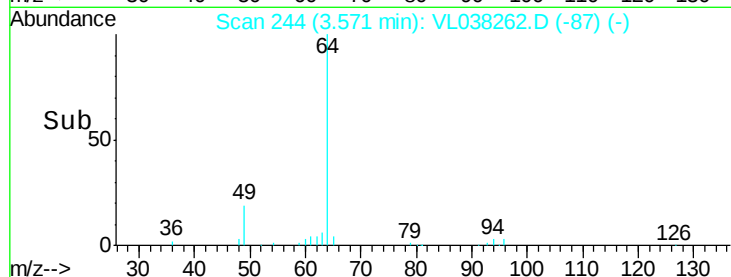
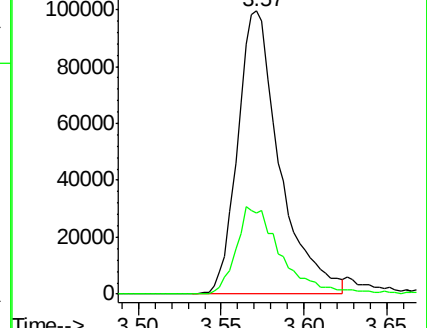
64 100

66 28.9 25.8 38.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.658 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL038262.D

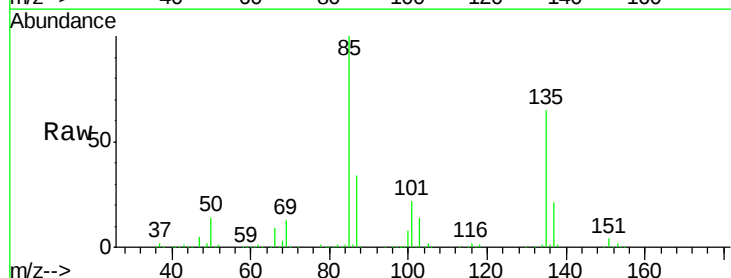
Acq: 24 Jan 2022 16:36

Tgt Ion: 85 Resp: 1221046

Ion Ratio Lower Upper

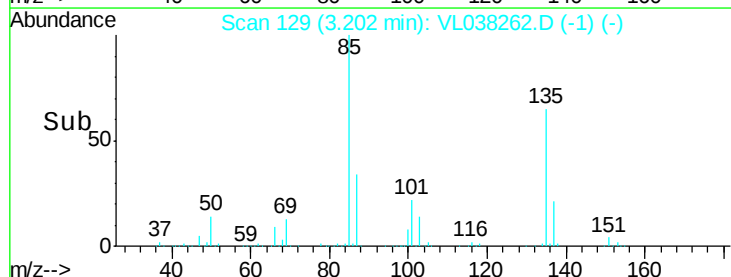
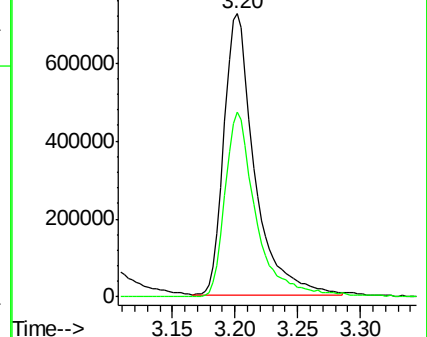
85 100

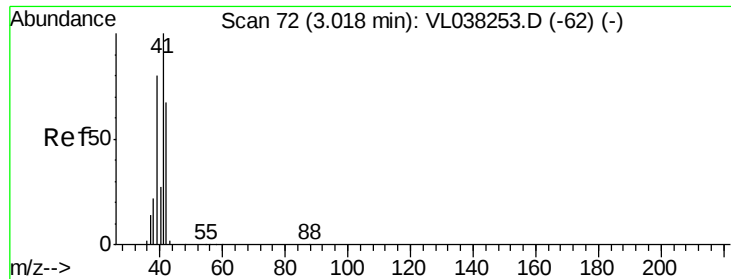
135 67.7 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.576 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

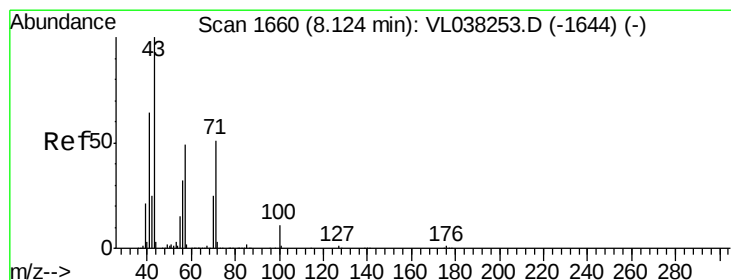
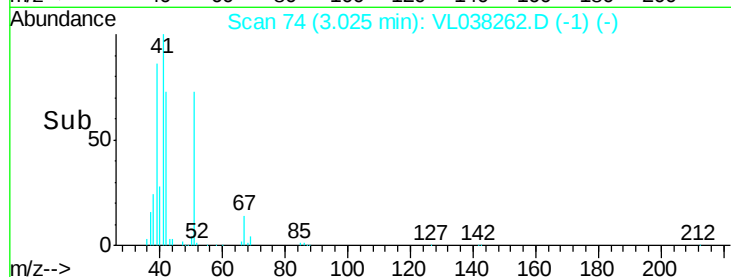
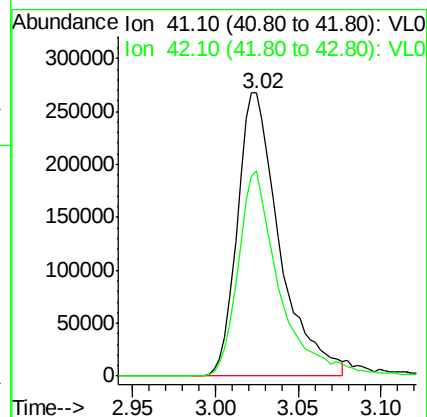
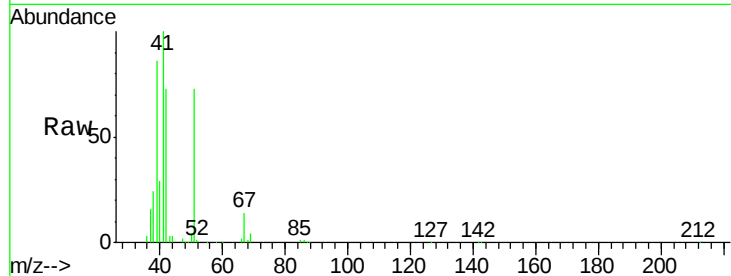
Acq: 24 Jan 2022 16:36 VL0124ABS01

Tgt Ion: 41 Resp: 475840

Ion Ratio Lower Upper

41 100

42 71.5 54.9 82.3



#10

Heptane

Concen: 8.901 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL038262.D

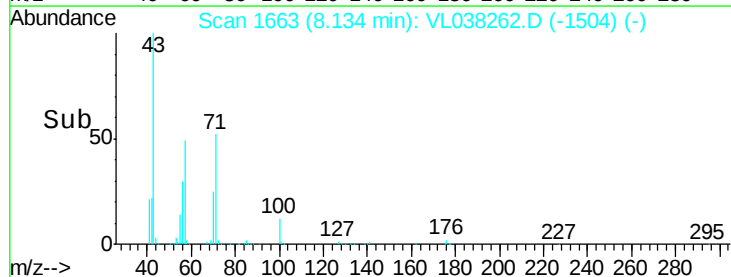
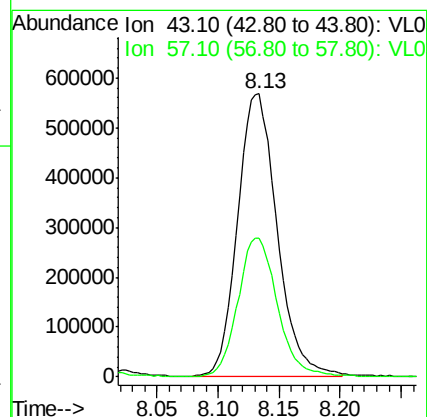
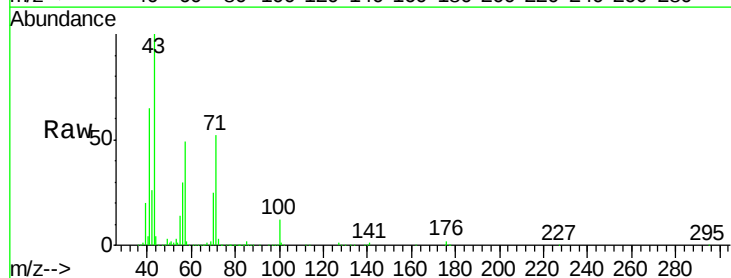
Acq: 24 Jan 2022 16:36

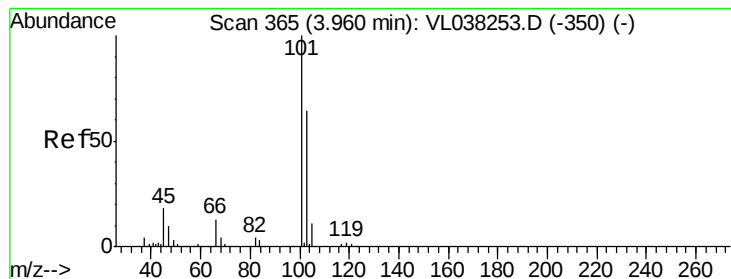
Tgt Ion: 43 Resp: 1270541

Ion Ratio Lower Upper

43 100

57 49.5 39.5 59.3





#11

Trichlorofluoromethane

Concen: 8.680 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

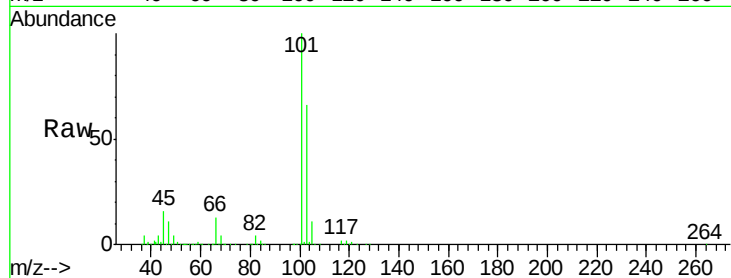
Acq: 24 Jan 2022 16:36 VL0124ABS01

Tgt Ion:101 Resp: 1232436

Ion Ratio Lower Upper

101 100

103 65.9 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

600000

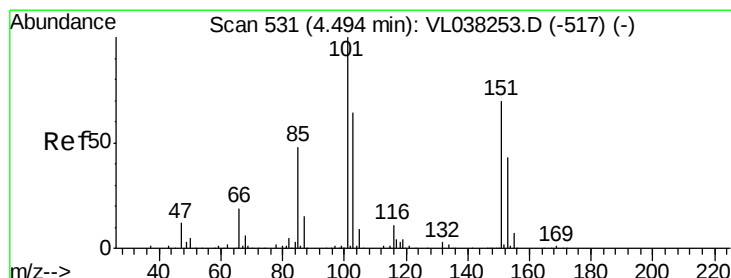
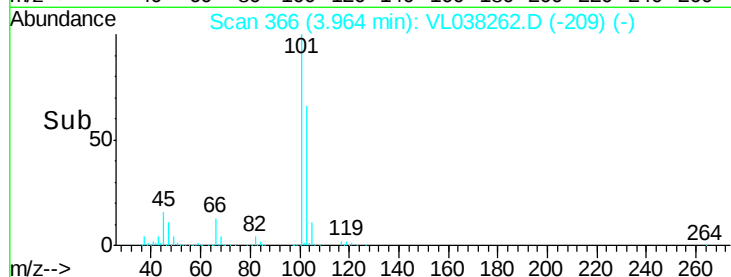
400000

200000

0

3.90 3.95 4.00 4.05

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.537 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL038262.D

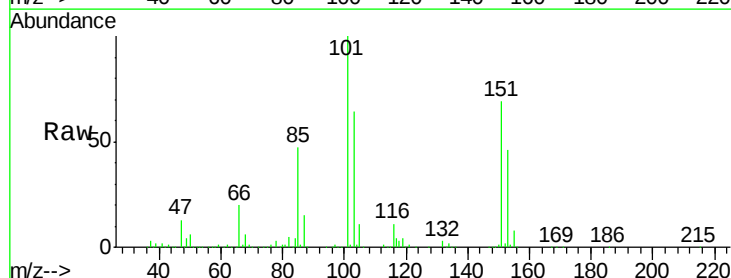
Acq: 24 Jan 2022 16:36

Tgt Ion:101 Resp: 916243

Ion Ratio Lower Upper

101 100

151 71.1 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

500000

400000

300000

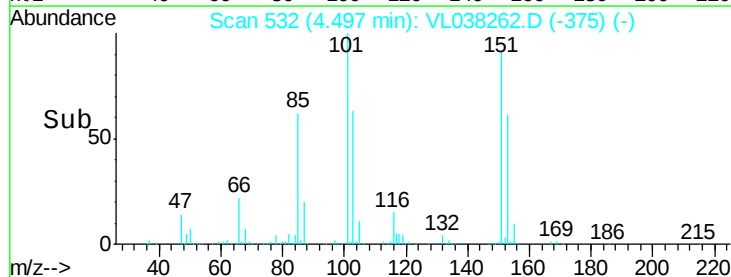
200000

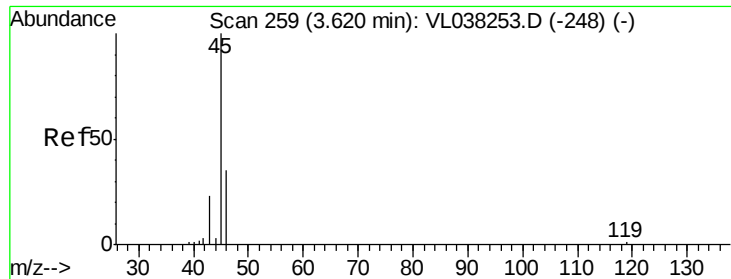
100000

0

4.40 4.45 4.50 4.55 4.60

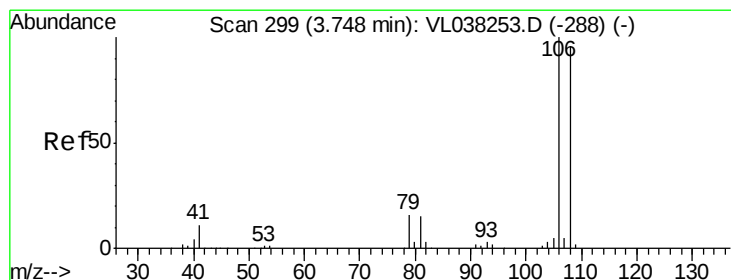
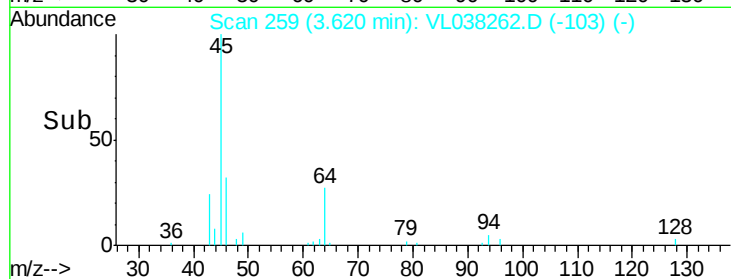
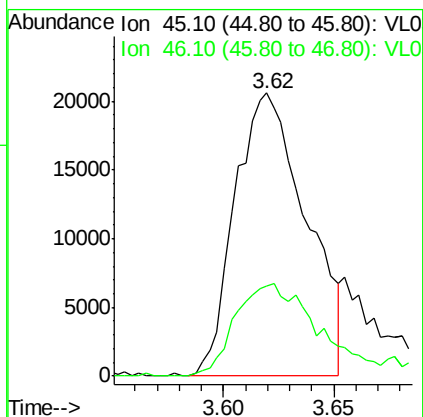
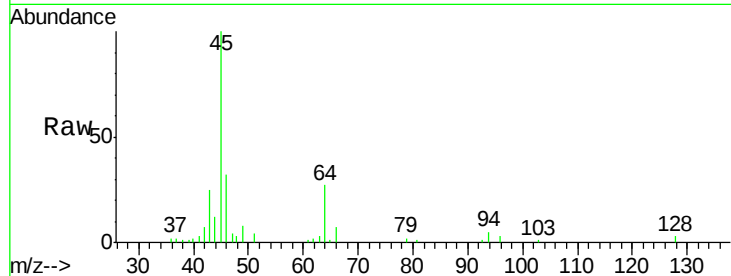
Time-->





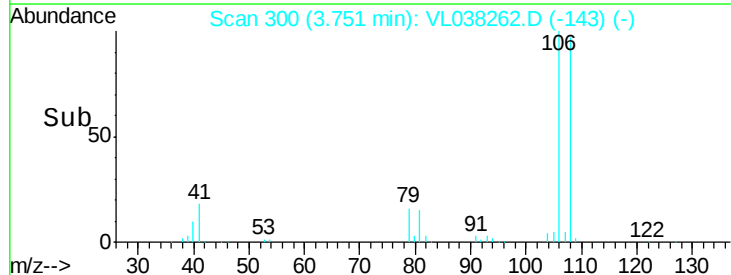
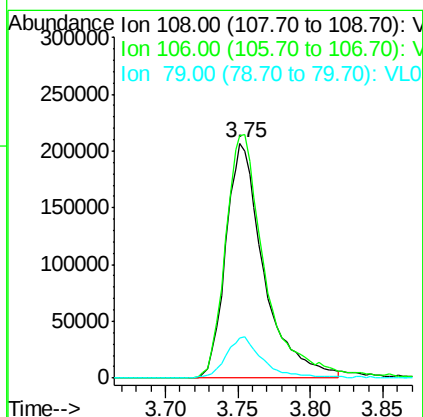
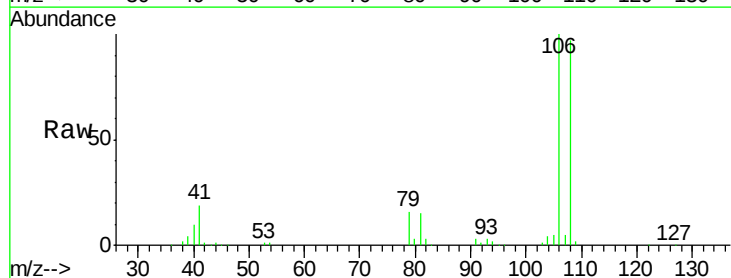
#13  
Ethanol  
Concen: 7.766 ppbv  
RT: 3.62  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

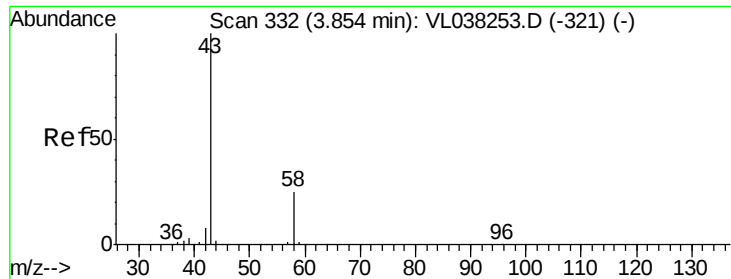
Tgt Ion: 45 Resp: 46254  
Ion Ratio Lower Upper  
45 100  
46 39.2 15.4 61.6



#14  
Bromoethene  
Concen: 8.974 ppbv  
RT: 3.75 min Scan# 300  
Delta R.T. 0.00 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

Tgt Ion: 108 Resp: 376350  
Ion Ratio Lower Upper  
108 100  
106 109.1 86.4 129.6  
79 17.5 14.1 21.1





#15

Acetone

Concen: 8.110 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

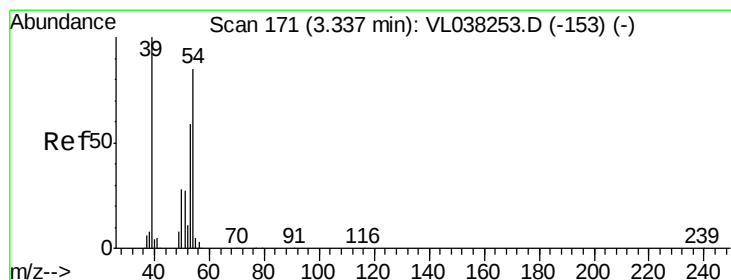
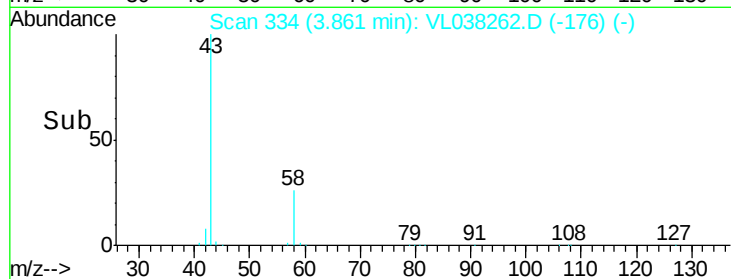
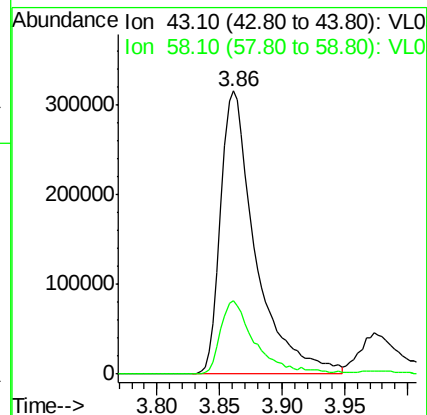
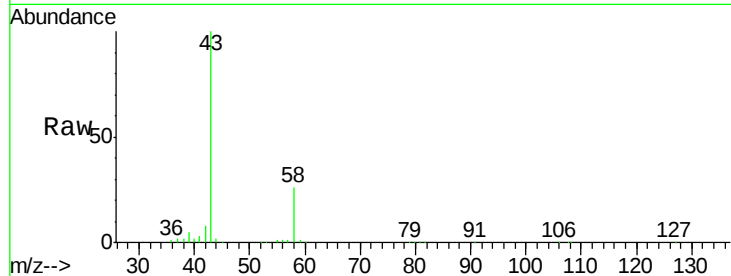
Acq: 24 Jan 2022 16:30 VL0124ABS01

Tgt Ion: 43 Resp: 612048

Ion Ratio Lower Upper

43 100

58 26.0 21.5 32.3



#16

1,3-Butadiene

Concen: 8.765 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.00 min

Lab File: VL038262.D

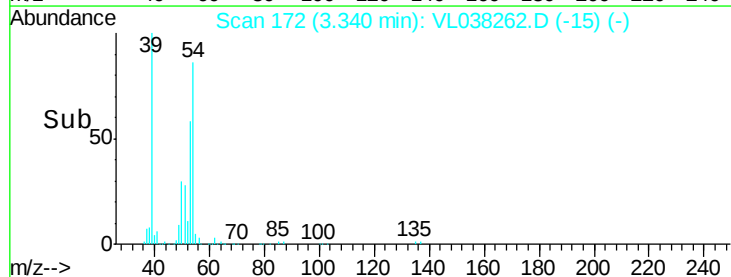
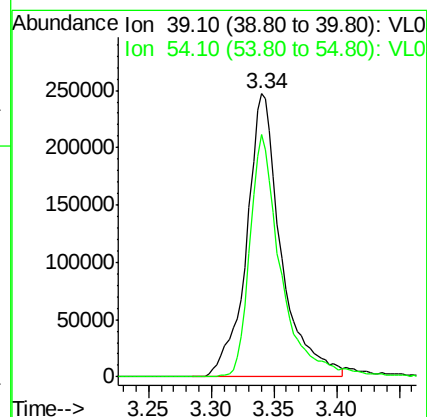
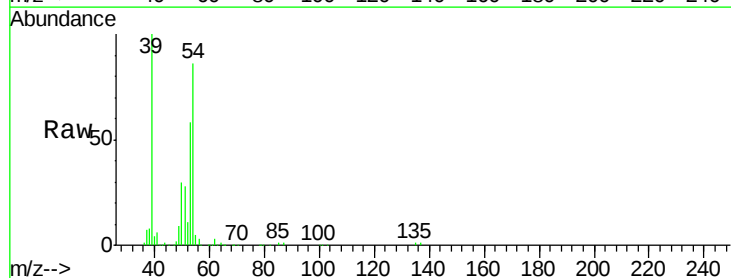
Acq: 24 Jan 2022 16:36

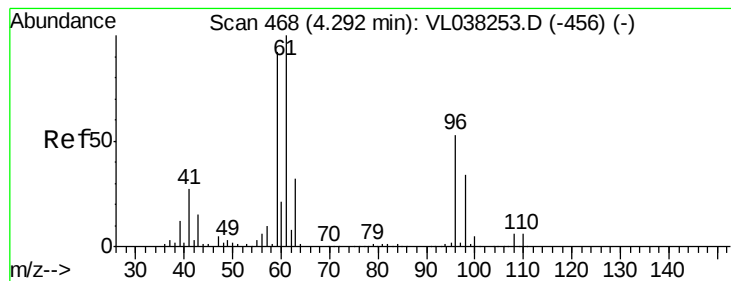
Tgt Ion: 39 Resp: 474726

Ion Ratio Lower Upper

39 100

54 77.9 62.6 94.0





#17

tert-Butyl alcohol

Concen: 8.485 ppbv

RT: 4.30 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

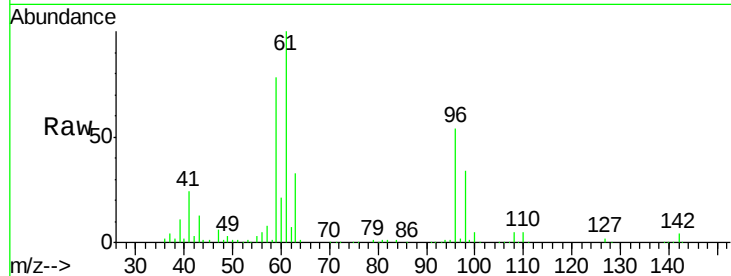
Acq: 24 Jan 2022 16:36

Tgt Ion: 59 Resp: 702881

Ion Ratio Lower Upper

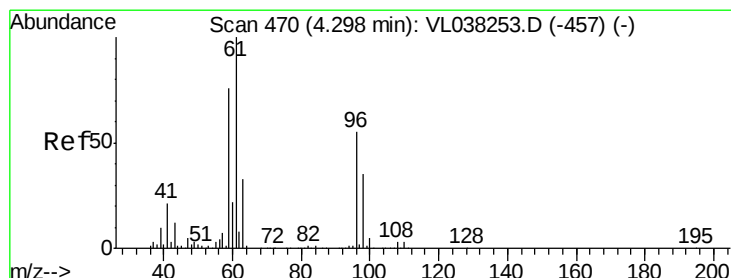
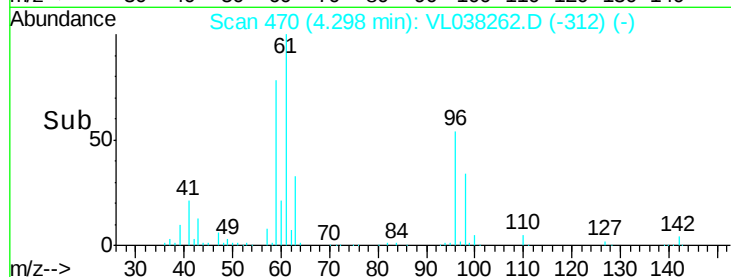
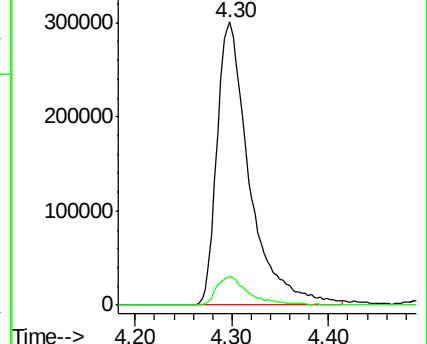
59 100

57 10.1 9.2 13.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 8.651 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

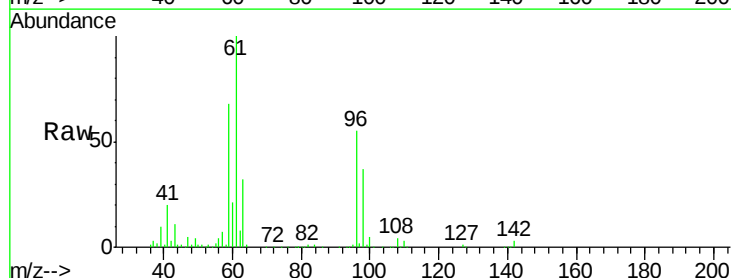
Tgt Ion: 96 Resp: 403747

Ion Ratio Lower Upper

96 100

61 180.2 146.5 219.7

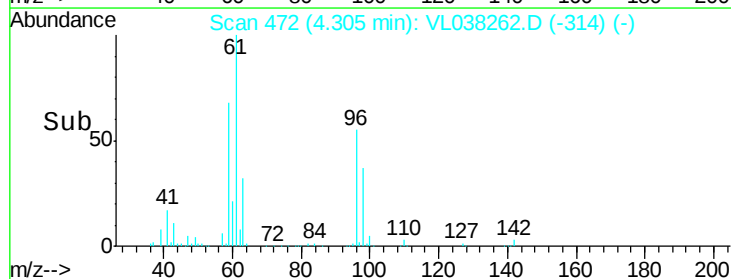
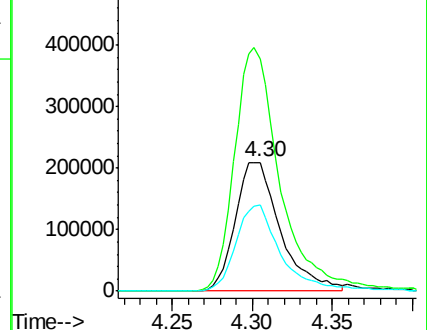
98 66.9 51.9 77.9

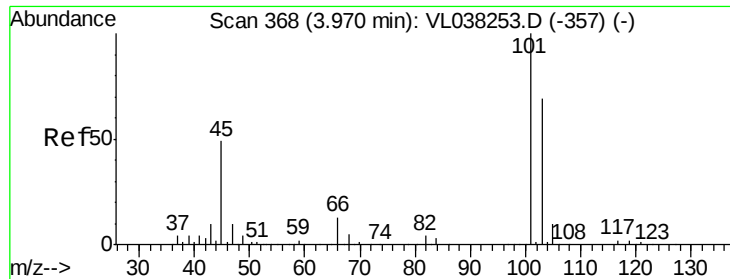


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 7.937 ppbv

RT: 3.97 Instrument: MSVOA\_1

Delta R.T. 0.00

Lab File: ClientSampleId: VL0124ABS01

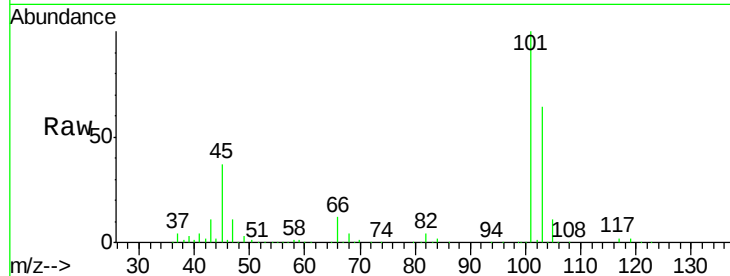
Acq: 24 Jan 2022 16:36

Tgt Ion: 45 Resp: 374726

Ion Ratio Lower Upper

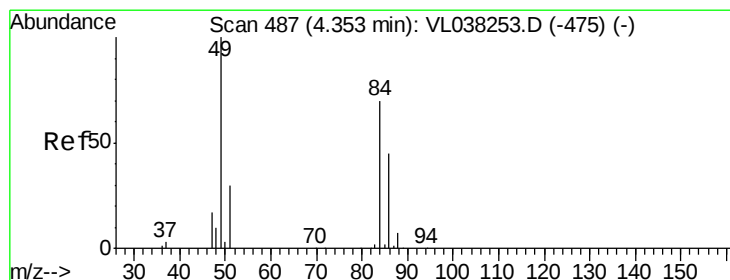
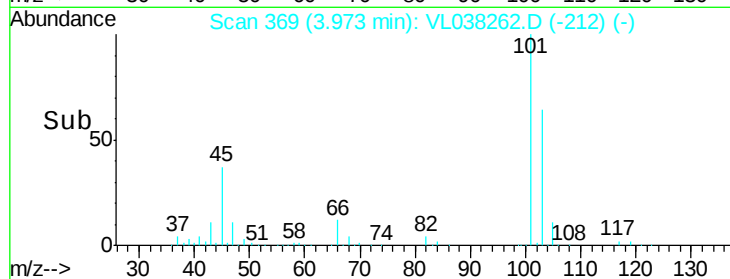
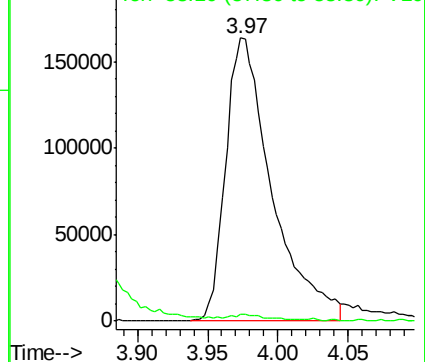
45 100

58 2.0 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 7.803 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

Tgt Ion: 84 Resp: 342520

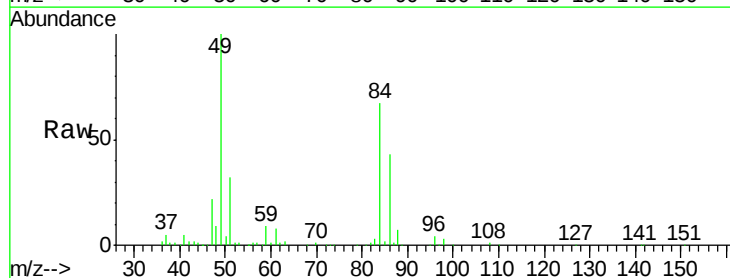
Ion Ratio Lower Upper

84 100

49 147.8 115.0 172.6

51 45.4 35.0 52.6

86 64.3 51.4 77.0

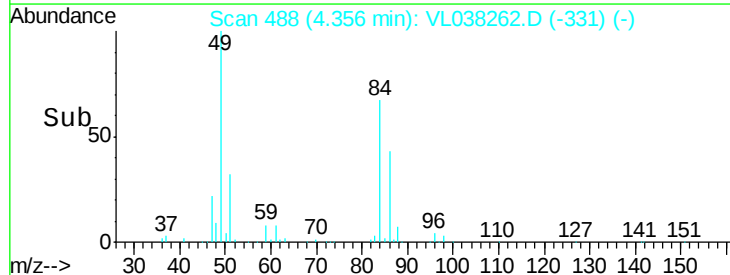
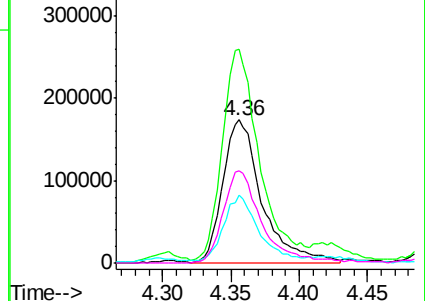


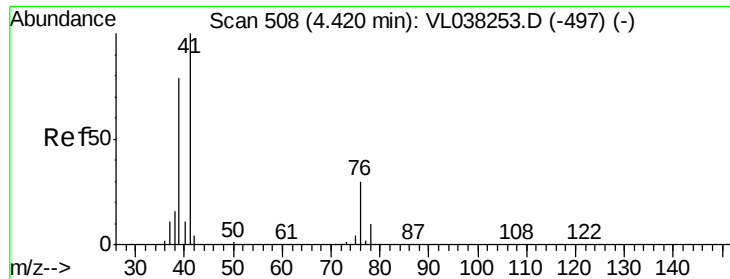
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

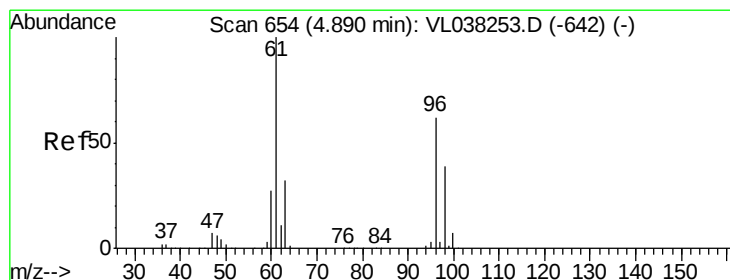
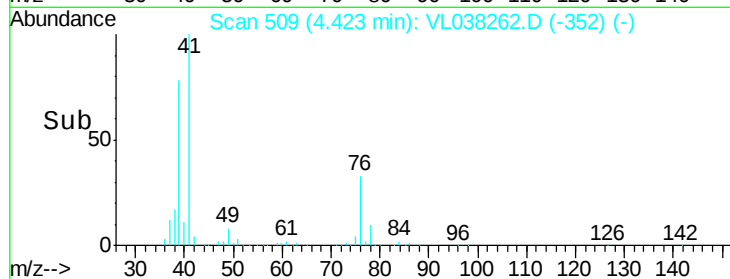
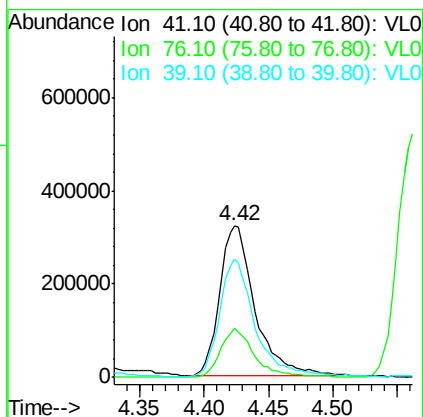
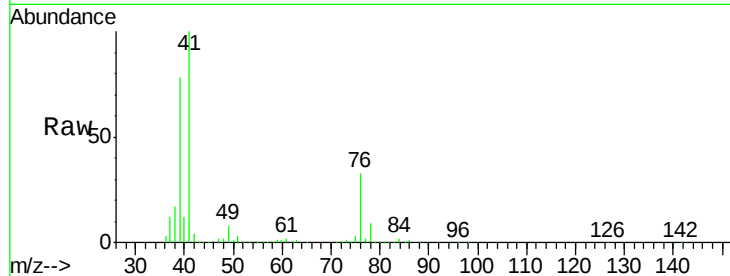
Ion 86.00 (85.70 to 86.70): VL0





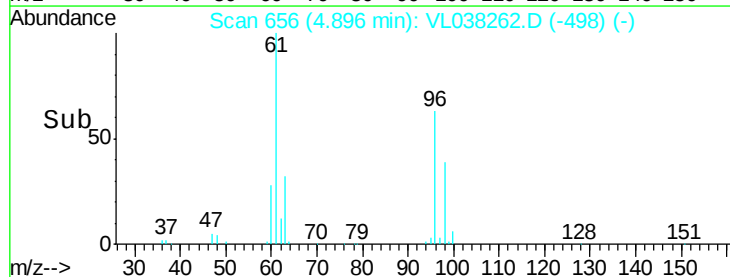
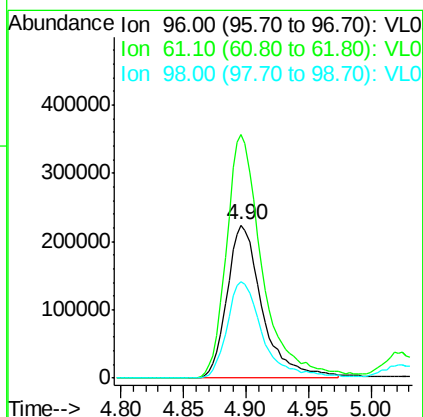
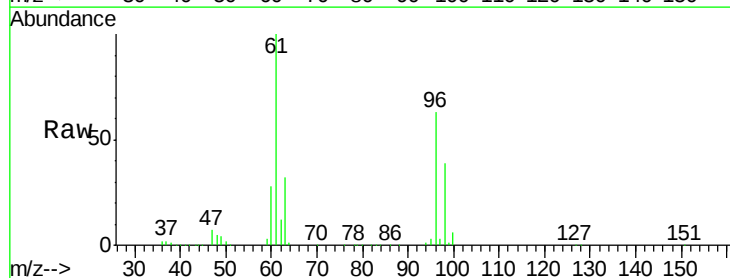
#21  
 Allyl Chloride  
 Concen: 9.087 ppbv  
 RT: 4.42  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0124ABS01  
 Acq: 24 Jan 2022 16:36

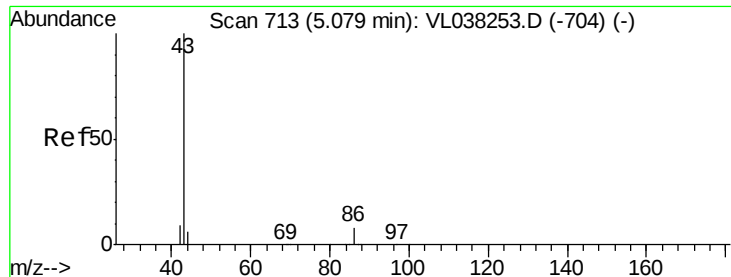
Tgt Ion: 41 Resp: 606776  
 Ion Ratio Lower Upper  
 41 100  
 76 31.7 25.0 37.6  
 39 79.1 63.0 94.6



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.102 ppbv  
 RT: 4.90 min Scan# 656  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 96 Resp: 438945  
 Ion Ratio Lower Upper  
 96 100  
 61 158.6 128.8 193.2  
 98 62.6 49.8 74.8





#23

Vinyl Acetate

Concen: 9.205 ppbv

RT: 5.08 Instrument: MSVOA\_1

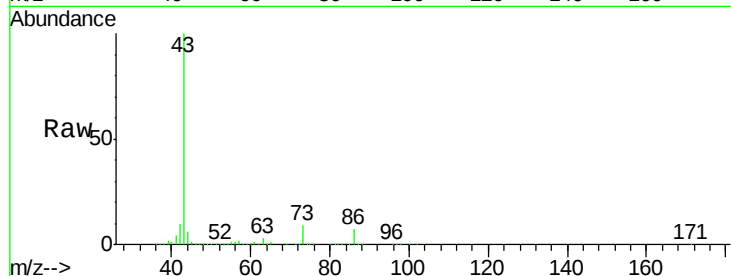
Delta R.T. ClientSampleId:

Lab File: VL0124ABS01

Acq: 24 Jan 2022 16:36

Tgt Ion: 43 Resp: 1010106

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.2   | 5.7   | 8.5   |
| 42  | 9.8   | 7.7   | 11.5  |
| 44  | 5.6   | 4.2   | 6.4   |

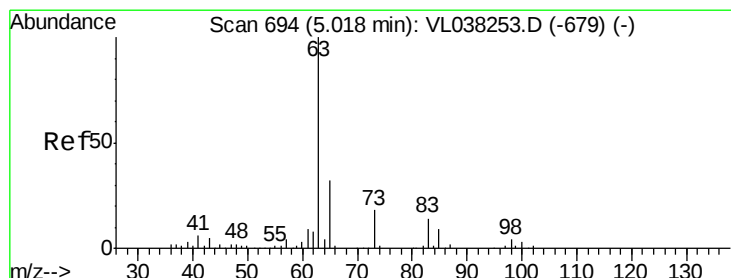
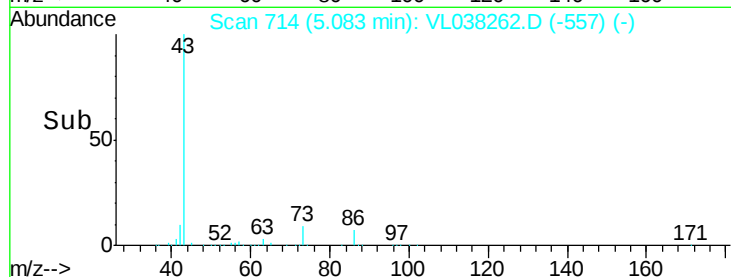
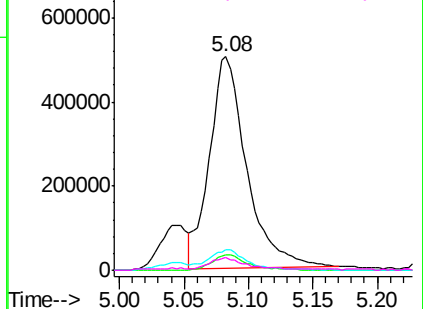


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.709 ppbv

RT: 5.02 min Scan# 695

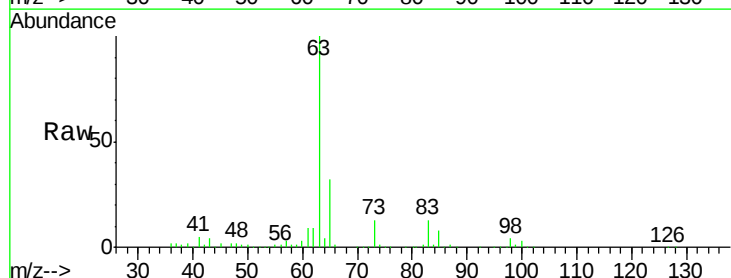
Delta R.T. 0.00 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

Tgt Ion: 63 Resp: 851398

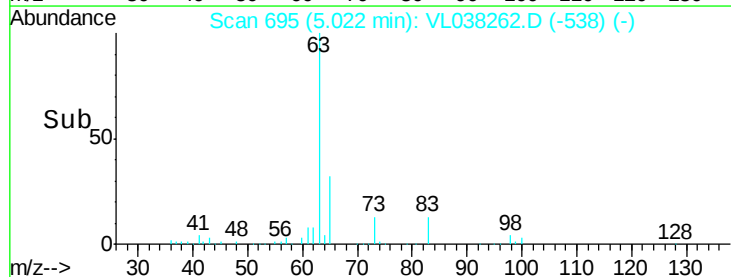
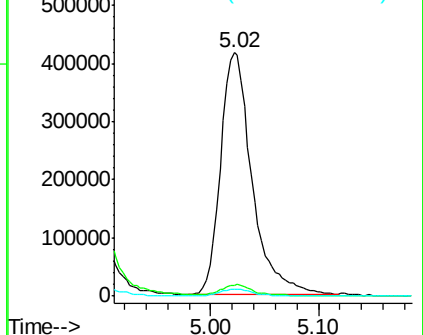
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.3   | 2.3   | 6.8   |
| 100 | 2.8   | 1.3   | 3.9   |

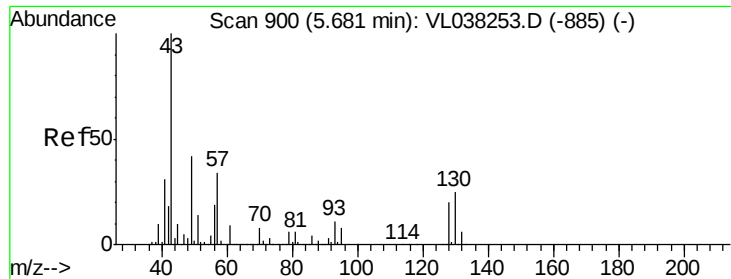


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

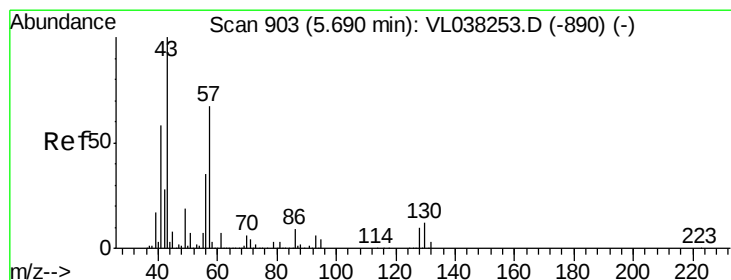
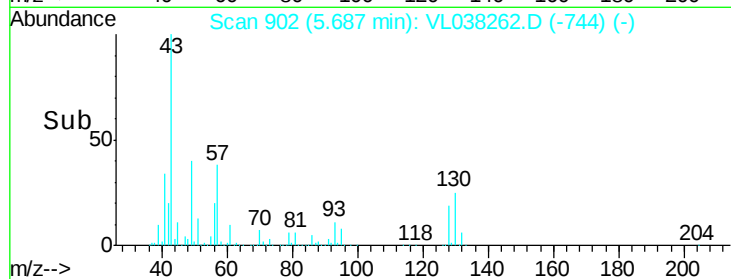
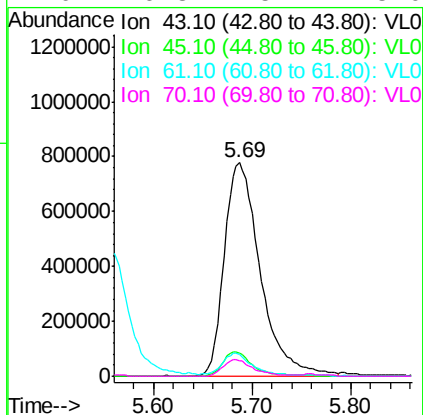
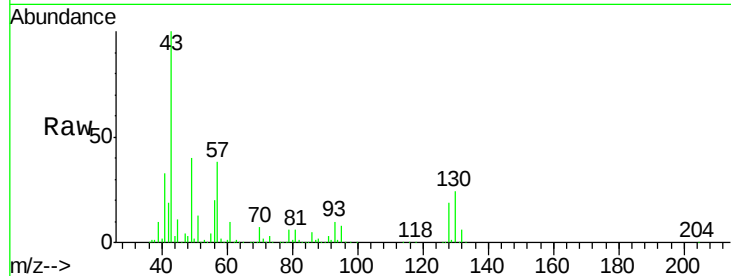




#25  
Ethyl Acetate  
Concen: 9.341 ppbv  
RT: 5.69  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

Tgt Ion: 43 Resp: 1973884

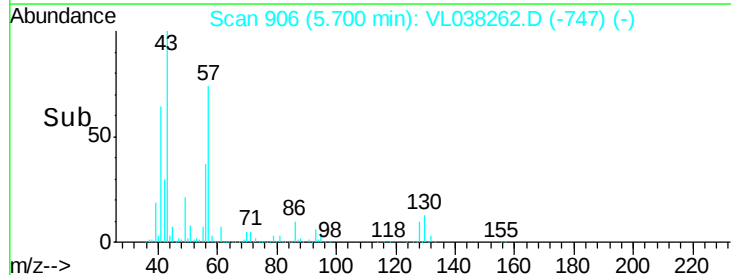
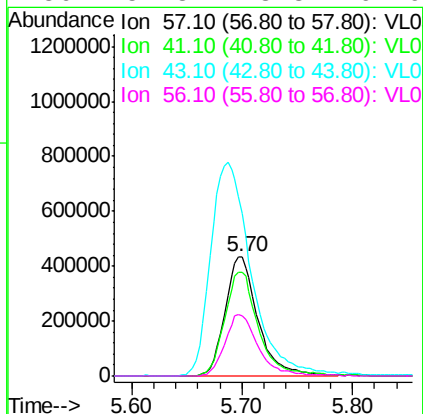
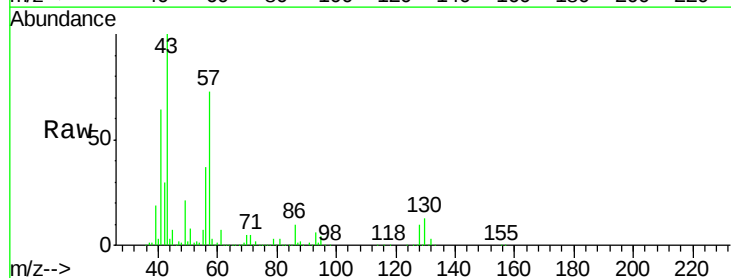
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 7.9   | 11.9  |
| 61  | 9.9   | 7.8   | 11.8  |
| 70  | 6.8   | 5.4   | 8.0   |

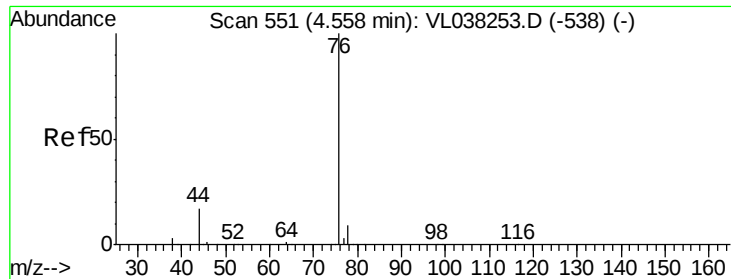


#26  
Hexane  
Concen: 9.147 ppbv  
RT: 5.70 min Scan# 906  
Delta R.T.: 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

Tgt Ion: 57 Resp: 899042

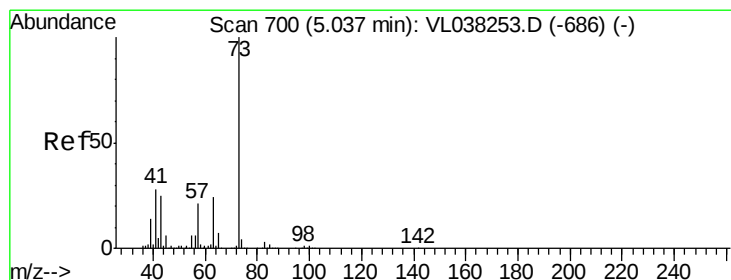
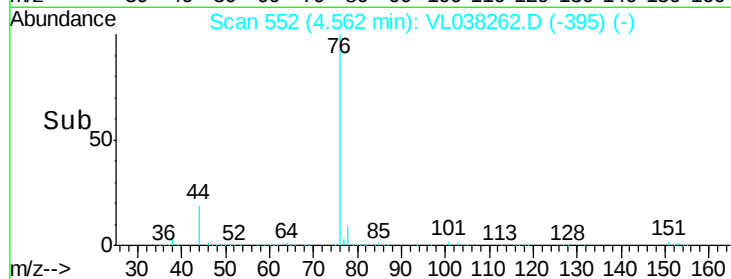
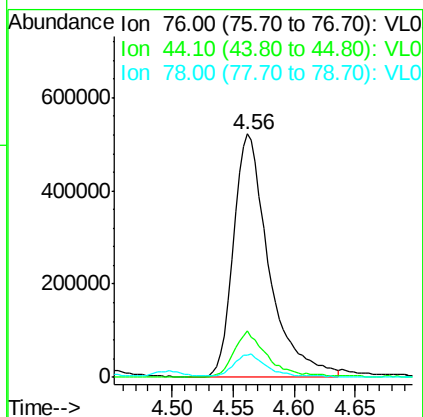
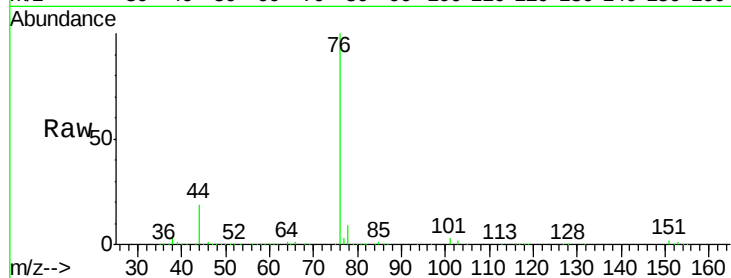
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.0  | 72.8  | 109.2 |
| 43  | 222.7 | 177.0 | 265.6 |
| 56  | 52.8  | 43.3  | 64.9  |





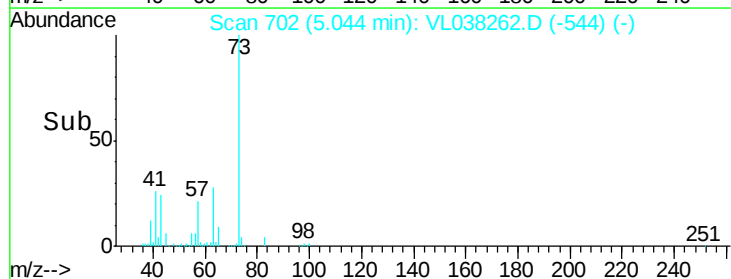
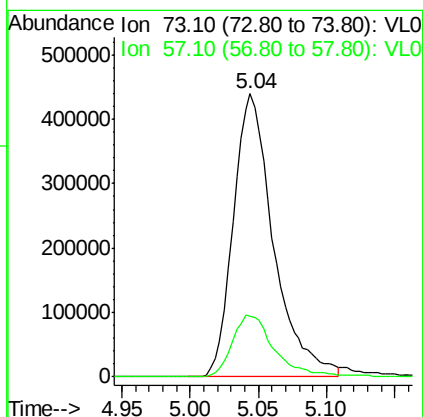
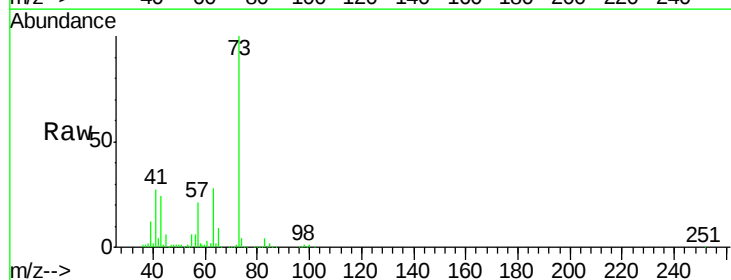
#27  
Carbon Disulfide  
Concen: 9.135 ppbv  
RT: 4.56  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

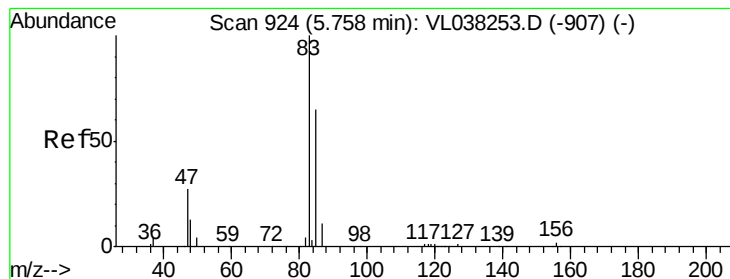
Tgt Ion: 76 Resp: 1050459  
Ion Ratio Lower Upper  
76 100  
44 18.1 14.8 22.2  
78 9.4 7.9 11.9



#28  
Methyl tert-Butyl Ether  
Concen: 8.843 ppbv  
RT: 5.04 min Scan# 702  
Delta R.T. 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

Tgt Ion: 73 Resp: 901604  
Ion Ratio Lower Upper  
73 100  
57 23.1 18.2 27.4





#29

Chloroform

Concen: 9.058 ppbv

RT: 5.76 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VL0124ABS01

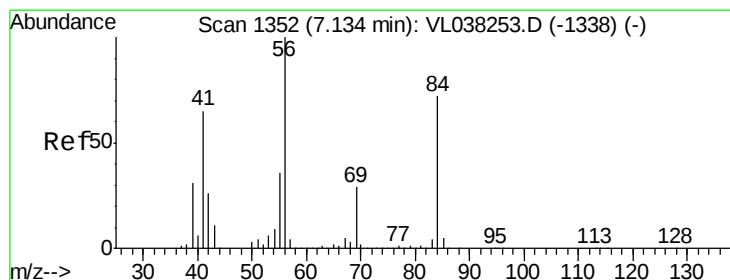
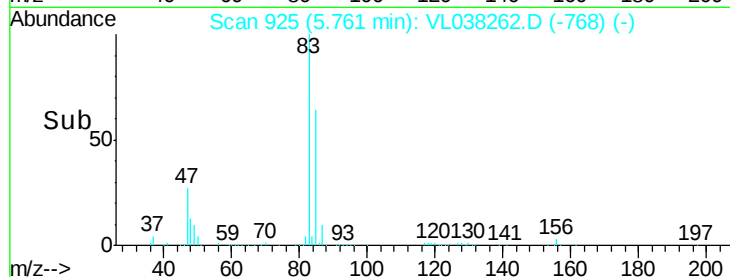
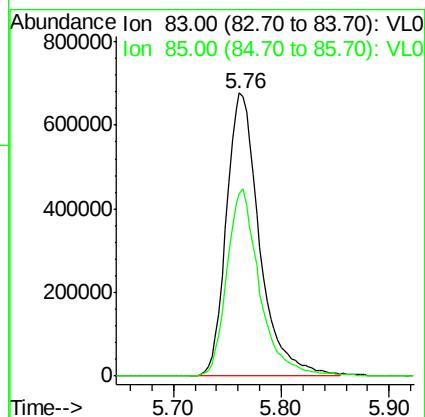
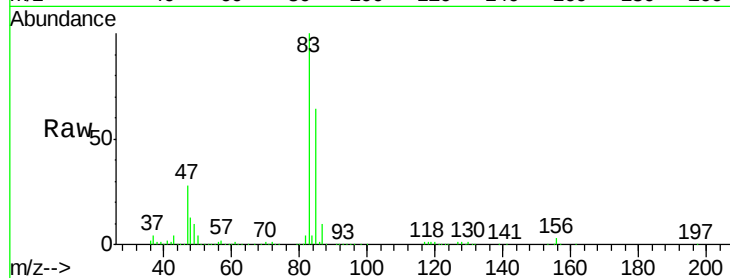
Acq: 24 Jan 2022 16:36

Tgt Ion: 83 Resp: 1453224

Ion Ratio Lower Upper

83 100

85 64.2 51.9 77.9



#30

Cyclohexane

Concen: 8.873 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

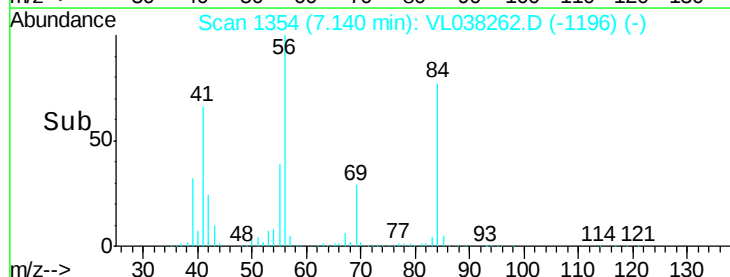
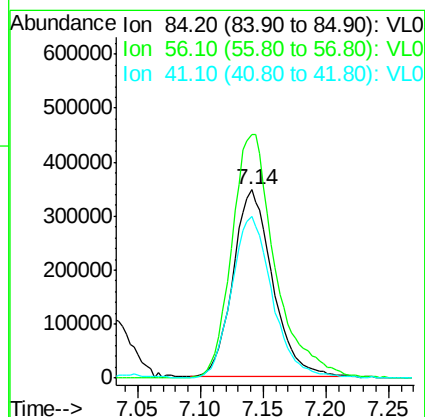
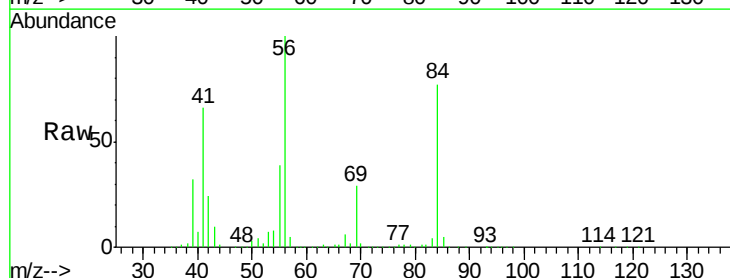
Tgt Ion: 84 Resp: 759355

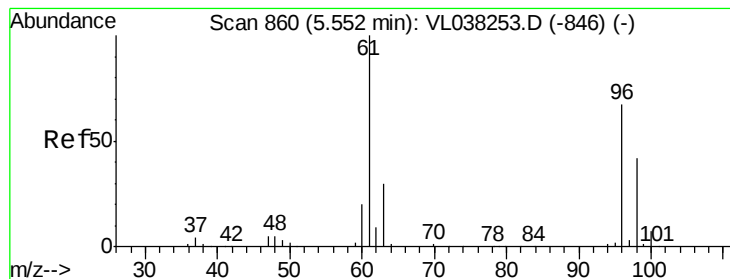
Ion Ratio Lower Upper

84 100

56 143.9 112.7 169.1

41 90.1 71.1 106.7





#31

cis-1,2-Dichloroethene

Concen: 10.826 ppbv

RT: 5.56

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36

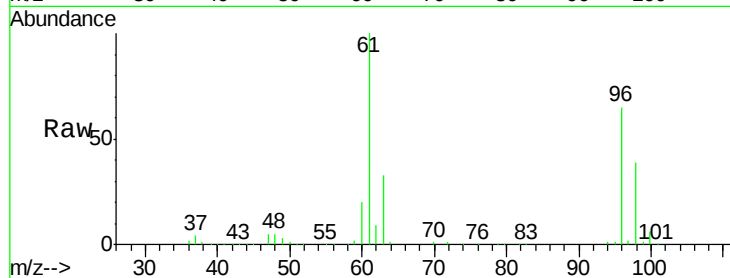
Tgt Ion: 61 Resp: 928195

Ion Ratio Lower Upper

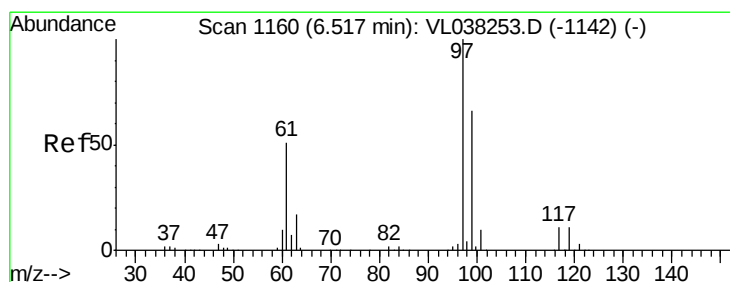
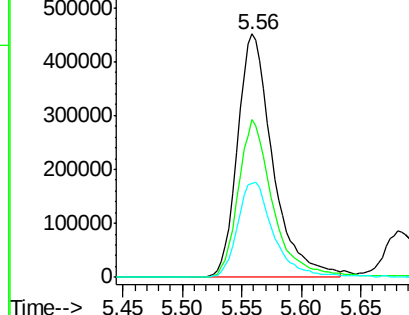
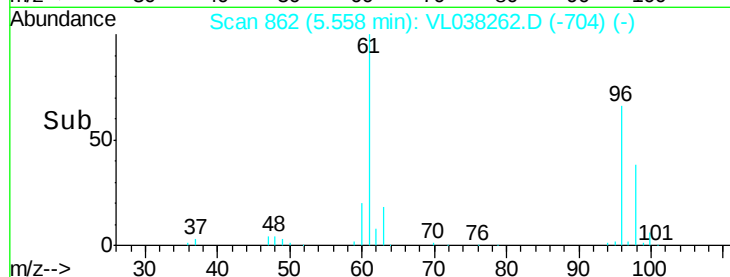
61 100

96 65.0 53.3 79.9

98 38.5 33.7 50.5



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: 8.928 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

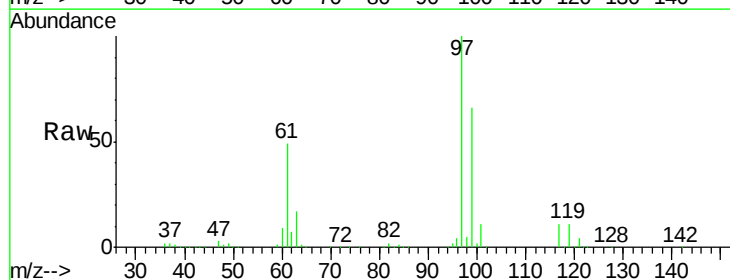
Tgt Ion: 97 Resp: 1430683

Ion Ratio Lower Upper

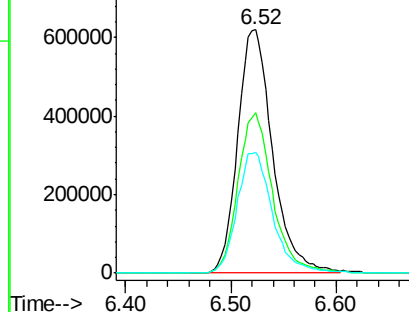
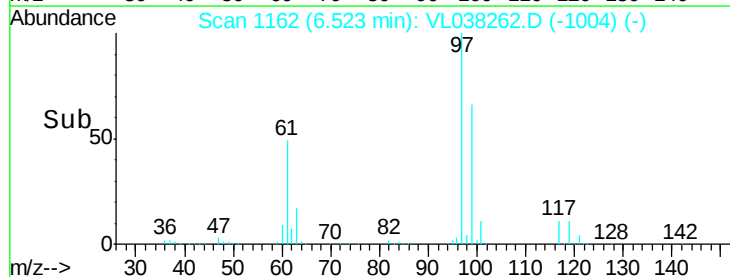
97 100

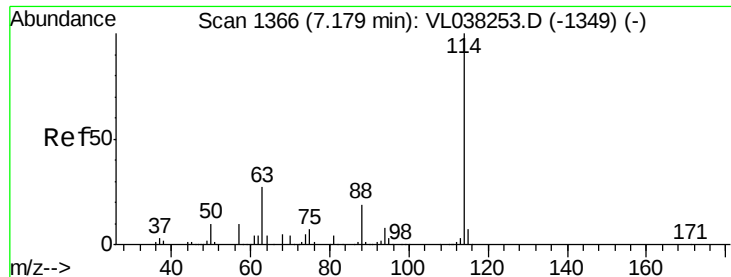
99 65.2 51.5 77.3

61 50.3 40.5 60.7



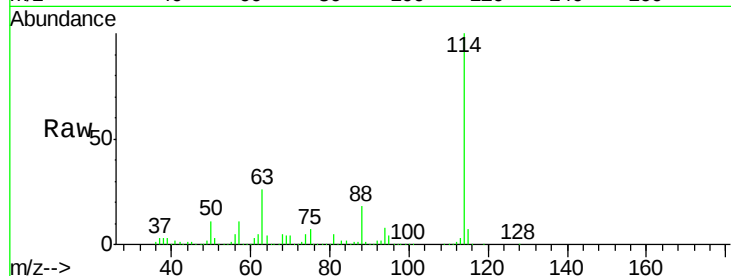
Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0



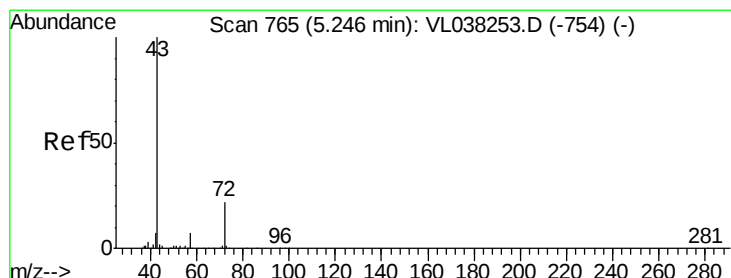
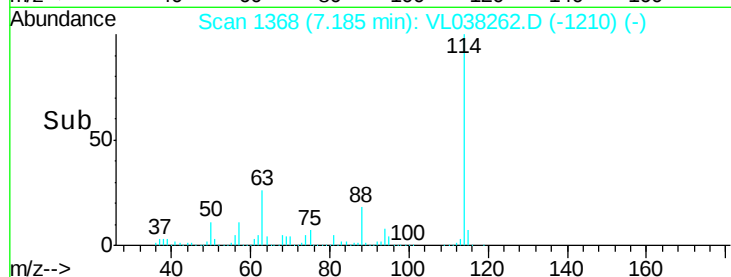
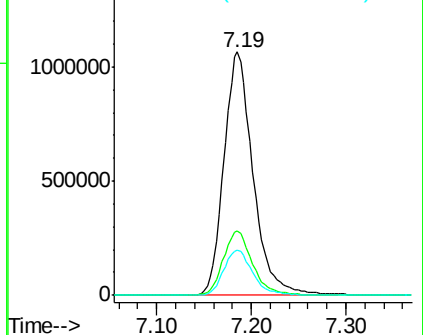


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0124ABS01  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 114 Resp: 2285324  
 Ion Ratio Lower Upper  
 114 100  
 63 27.1 22.0 33.0  
 88 18.7 15.0 22.6

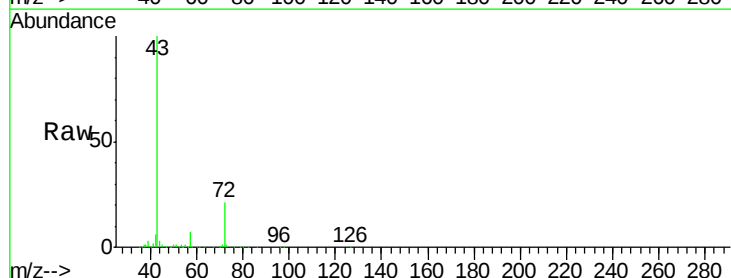


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

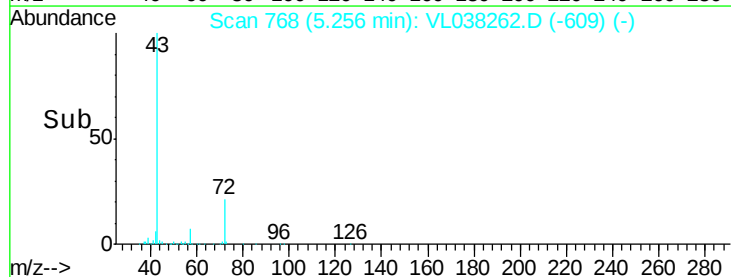
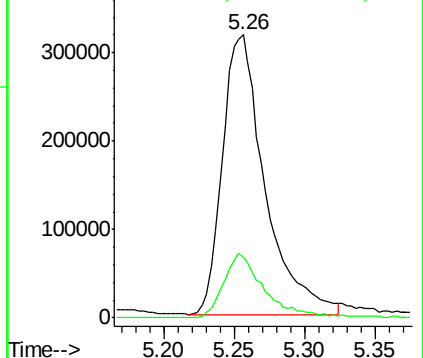


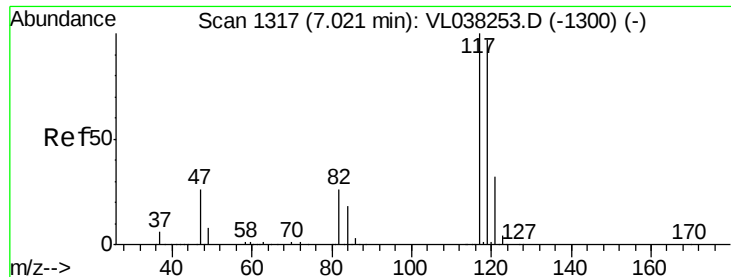
#34  
 2-Butanone  
 Concen: 8.907 ppbv  
 RT: 5.26 min Scan# 768  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 43 Resp: 665694  
 Ion Ratio Lower Upper  
 43 100  
 72 23.0 18.1 27.1



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





#35

Carbon Tetrachloride

Concen: 9.365 ppbv

RT: 7.03

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36

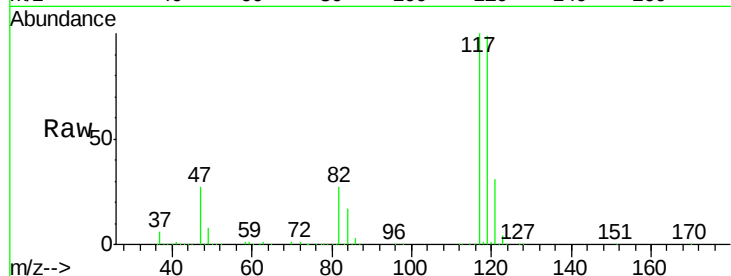
Tgt Ion: 117 Resp: 1502319

Ion Ratio Lower Upper

117 100

119 99.2 77.9 116.9

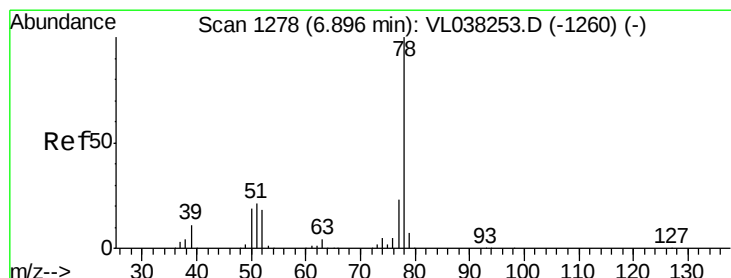
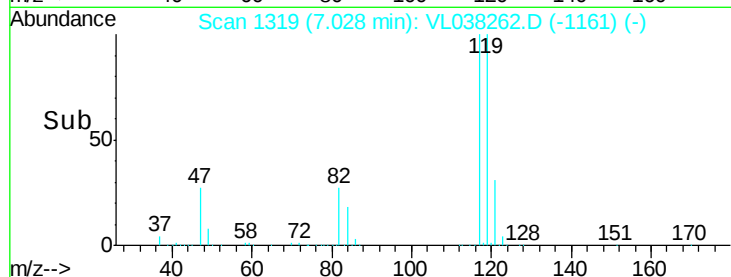
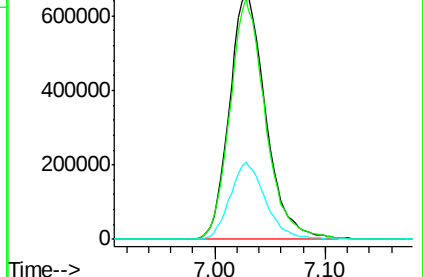
121 31.5 25.4 38.2



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: 9.471 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

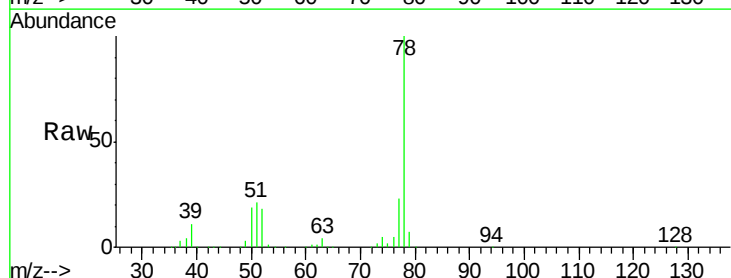
Tgt Ion: 78 Resp: 1914561

Ion Ratio Lower Upper

78 100

77 23.4 18.2 27.2

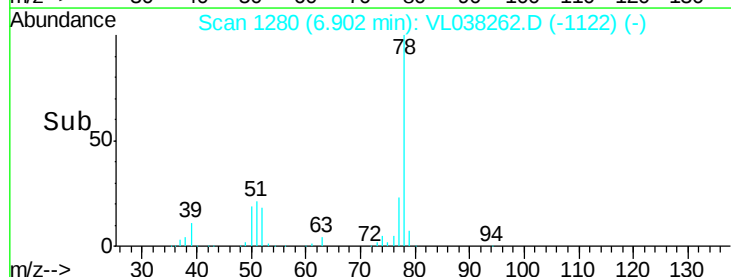
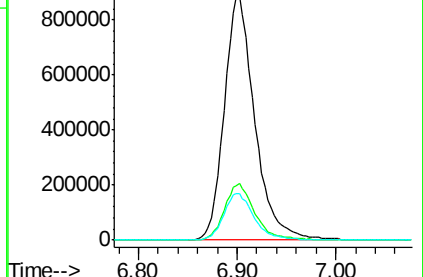
50 19.3 15.1 22.7

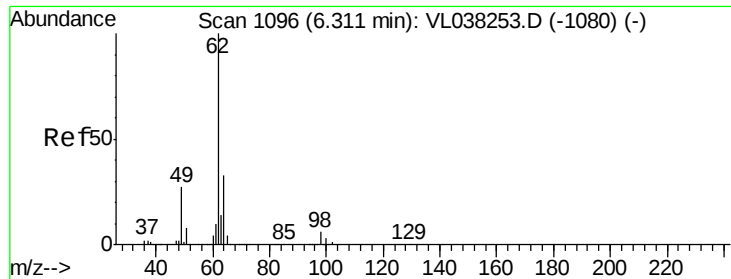


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

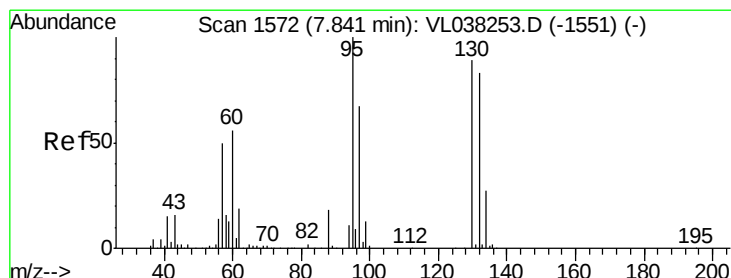
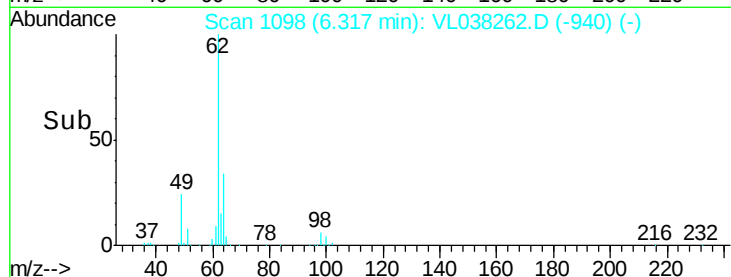
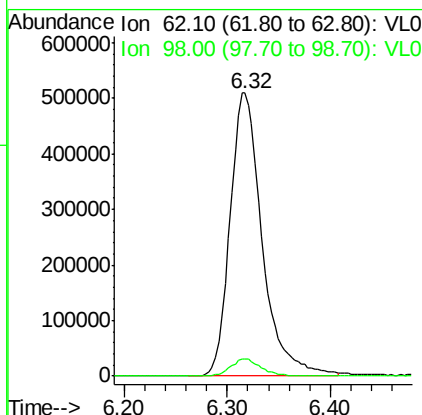
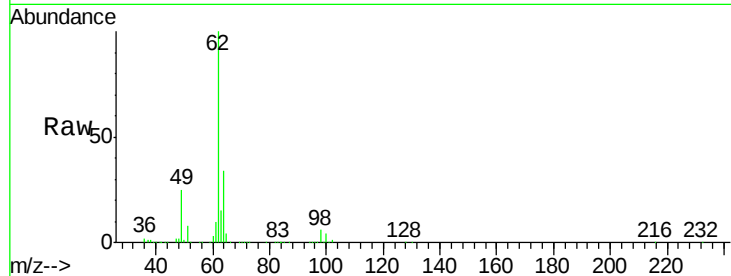
Ion 50.10 (49.80 to 50.80): VL0





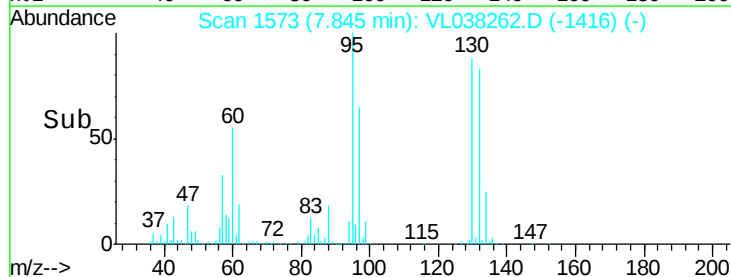
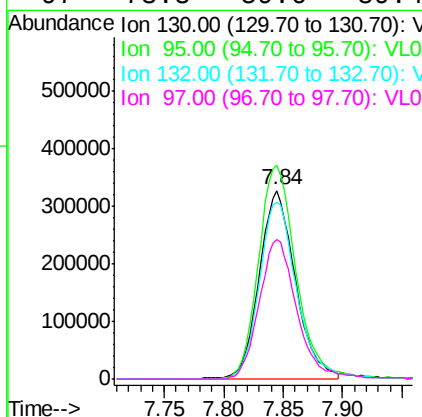
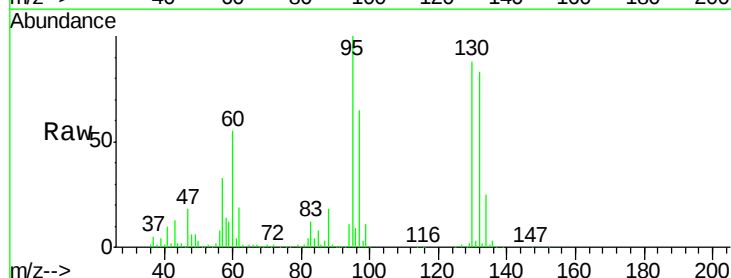
#37  
 1,2-Dichloroethane  
 Concen: 9.560 ppbv  
 RT: 6.32  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

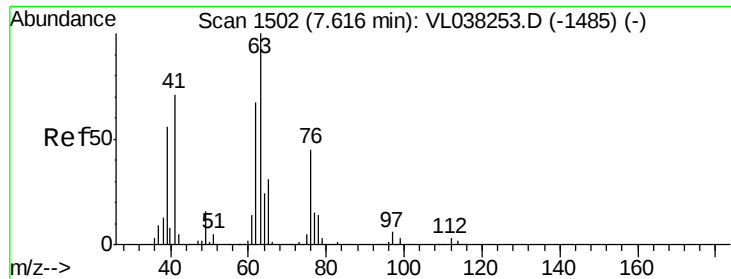
Tgt Ion: 62 Resp: 1106921  
 Ion Ratio Lower Upper  
 62 100  
 98 5.9 4.5 6.7



#38  
 Trichloroethene  
 Concen: 9.127 ppbv  
 RT: 7.84 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 130 Resp: 687305  
 Ion Ratio Lower Upper  
 130 100  
 95 113.3 89.4 134.2  
 132 93.6 74.6 111.8  
 97 73.8 59.6 89.4





#39

1,2-Dichloropropane

Concen: 9.244 ppbv

RT: 7.62 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36 VL0124ABS01

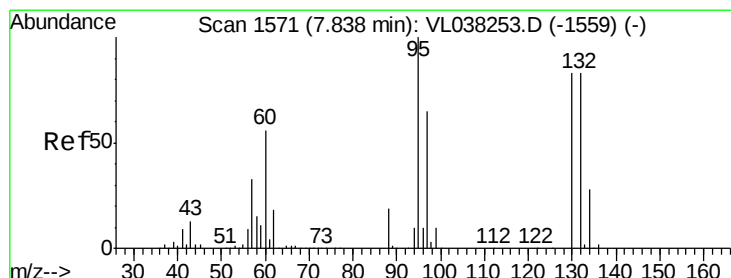
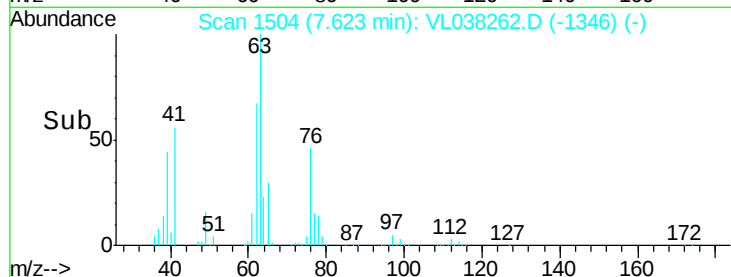
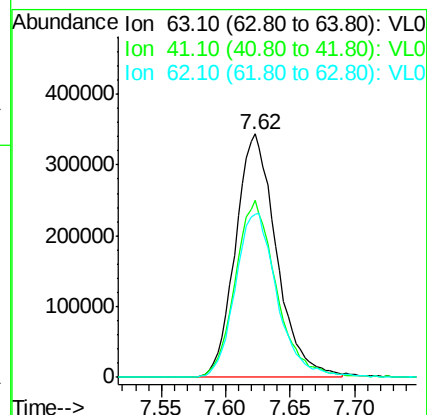
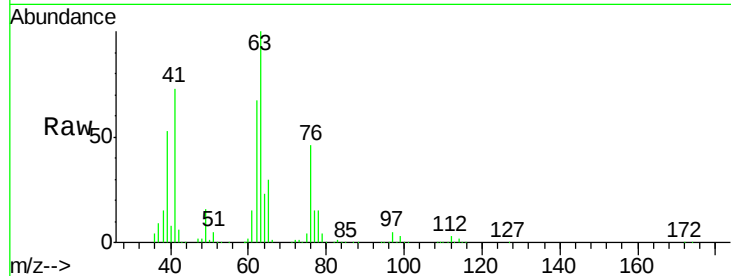
Tgt Ion: 63 Resp: 757618

Ion Ratio Lower Upper

63 100

41 72.3 56.6 85.0

62 66.9 53.9 80.9



#40

1,4-Dioxane

Concen: 9.067 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

Tgt Ion: 88 Resp: 178849

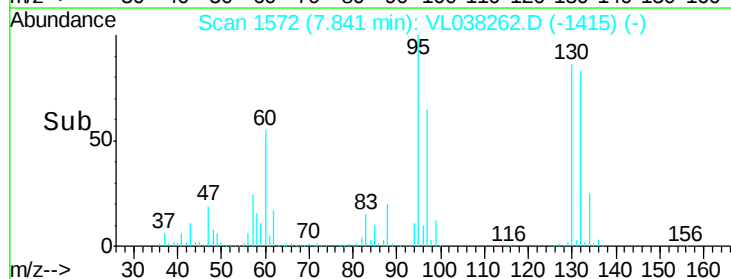
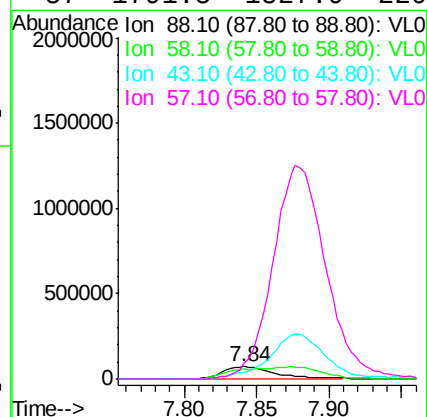
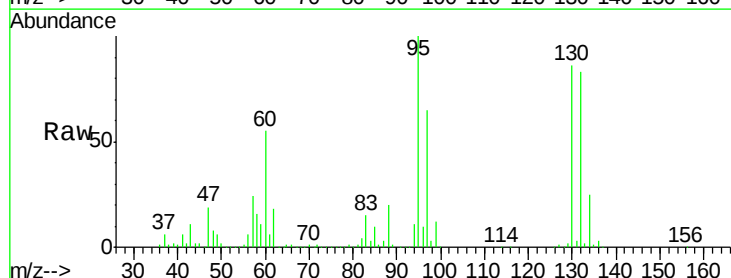
Ion Ratio Lower Upper

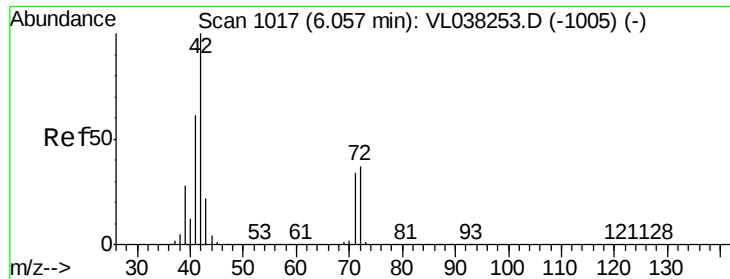
88 100

58 162.2 138.6 208.0

43 405.3 346.9 520.3

57 1791.5 1527.9 2291.9





#41

Tetrahydrofuran

Concen: 9.762 ppbv

RT: 6.06 Instrument: MSVOA\_1

Delta R.T. 0.01

Lab File: ClientSampleId: VL0124ABS01

Acq: 24 Jan 2022 16:36

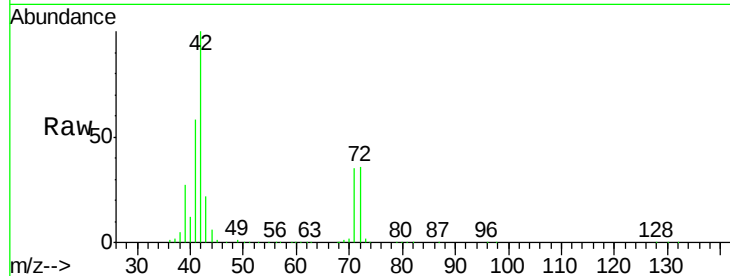
Tgt Ion: 42 Resp: 490426

Ion Ratio Lower Upper

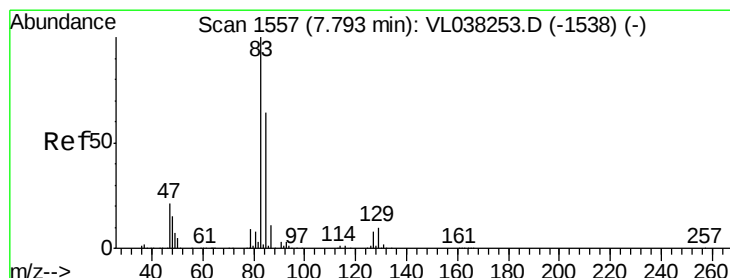
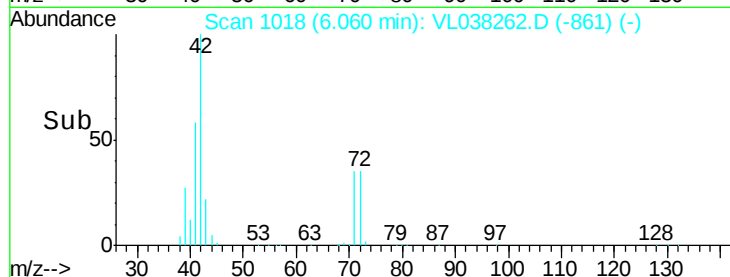
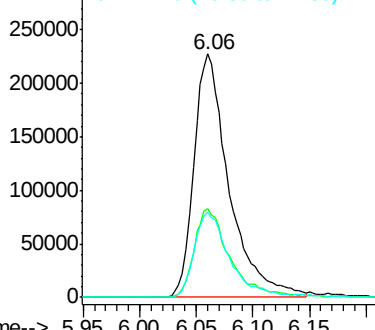
42 100

72 37.5 29.7 44.5

71 36.2 29.4 44.2



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: 9.381 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

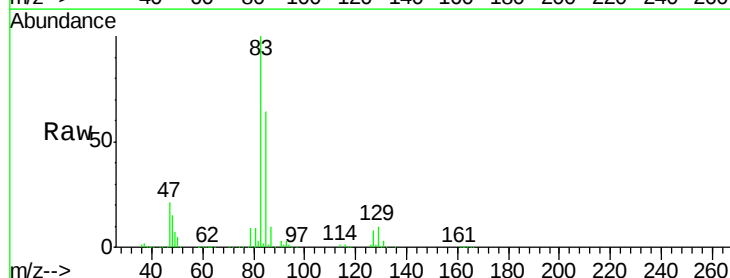
Tgt Ion: 83 Resp: 1611515

Ion Ratio Lower Upper

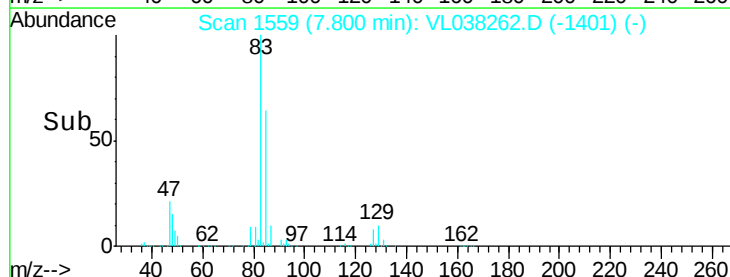
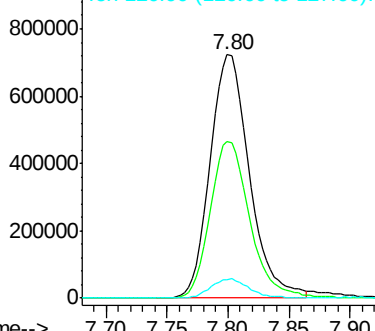
83 100

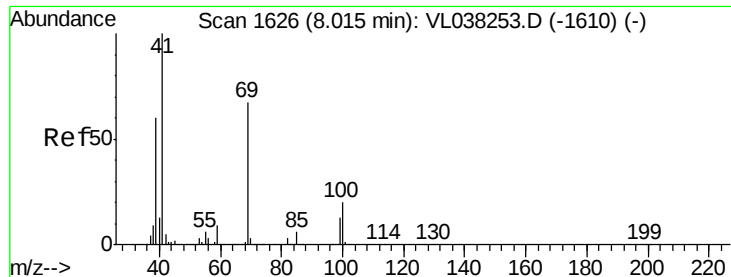
85 64.3 51.5 77.3

127 7.8 6.2 9.4



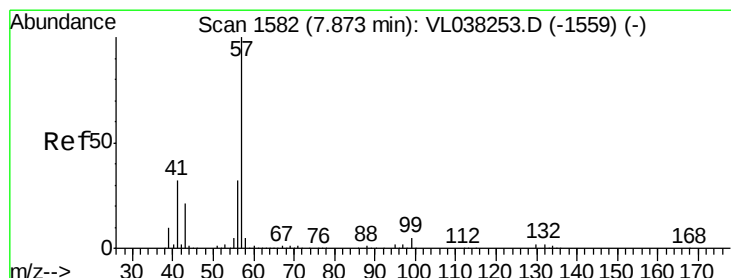
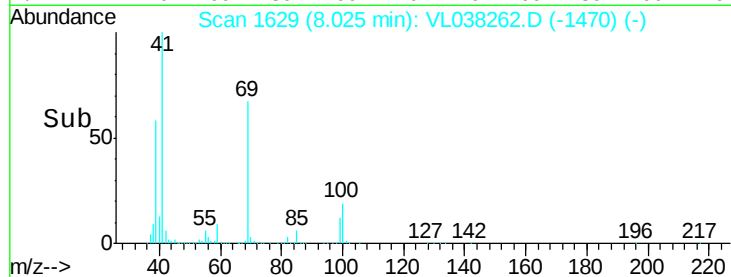
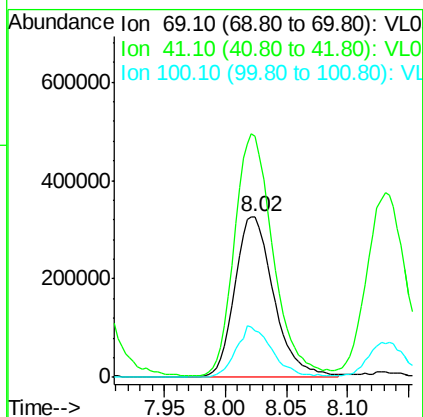
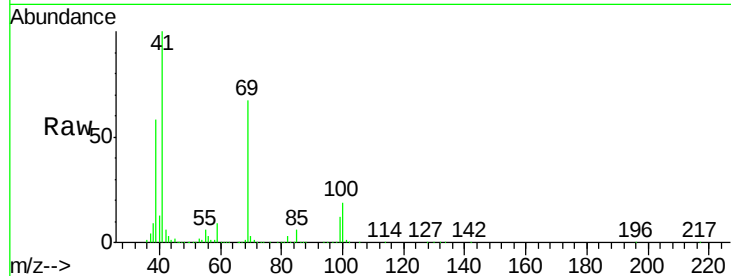
Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V





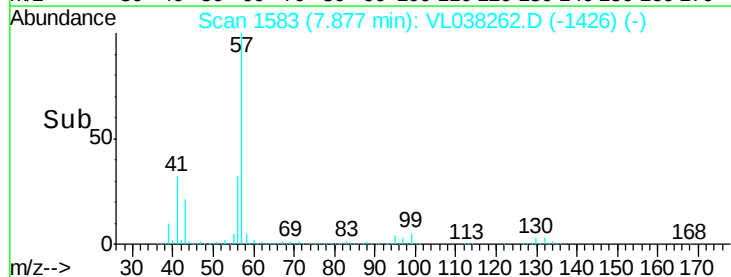
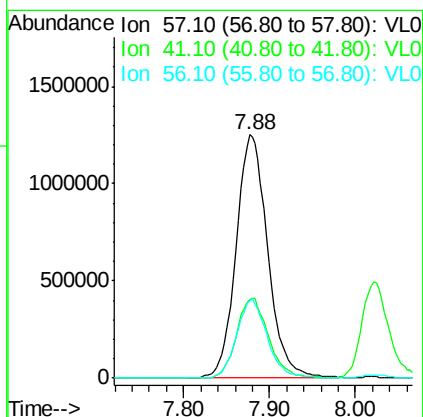
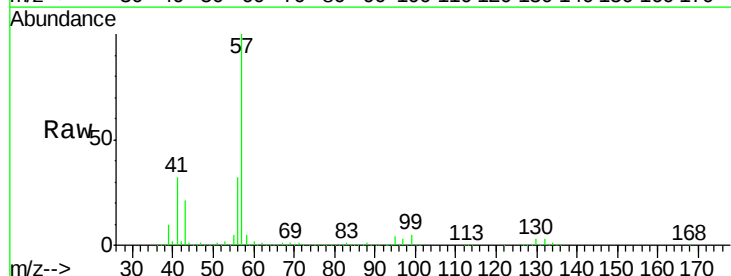
#43  
Methyl Methacrylate  
Concen: 10.105 ppbv  
RT: 8.02  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VL0124ABS01  
Acq: 24 Jan 2022 16:36

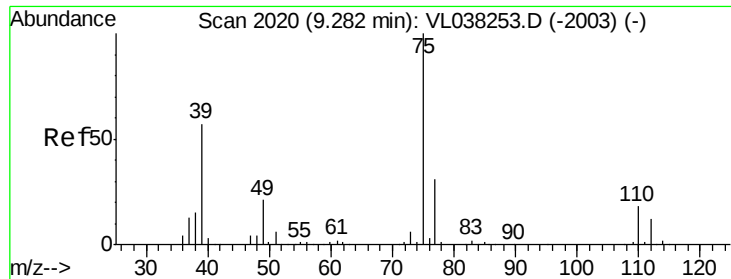
Tgt Ion: 69 Resp: 722559  
Ion Ratio Lower Upper  
69 100  
41 151.9 120.9 181.3  
100 29.9 23.4 35.0



#44  
2,2,4-Trimethylpentane  
Concen: 8.977 ppbv  
RT: 7.88 min Scan# 1583  
Delta R.T.: 0.00 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

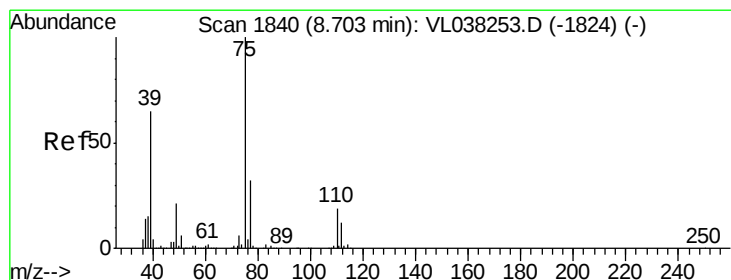
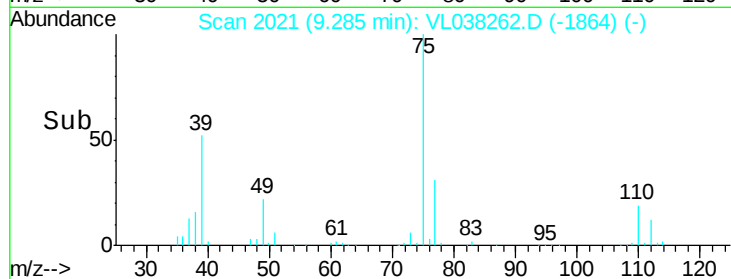
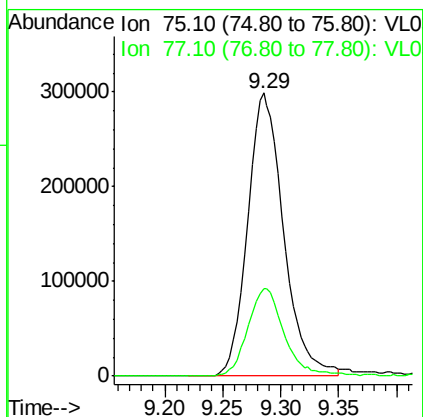
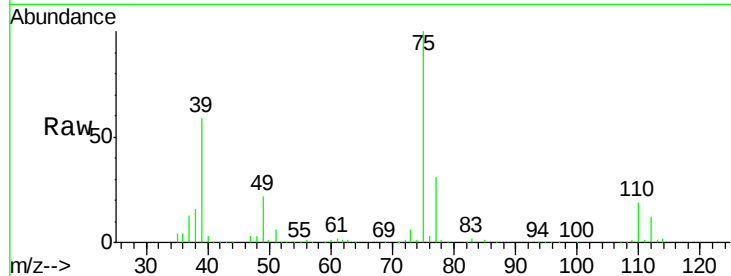
Tgt Ion: 57 Resp: 3198000  
Ion Ratio Lower Upper  
57 100  
41 33.4 26.3 39.5  
56 31.3 25.2 37.8





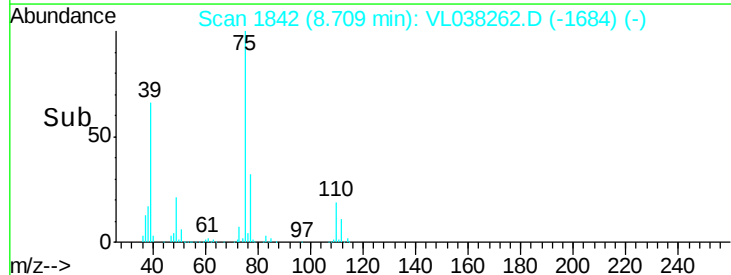
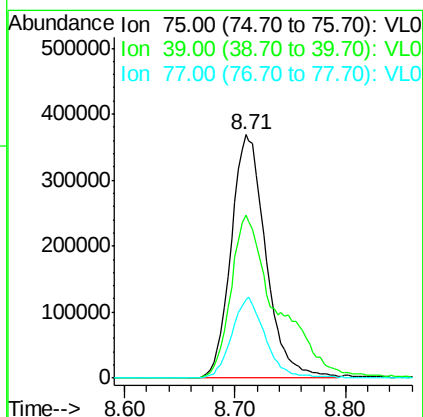
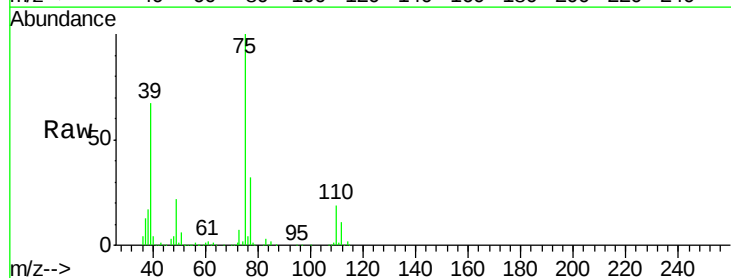
#45  
t-1,3-Dichloropropene  
Concen: 11.134 ppbv  
RT: 9.29  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
VL0124ABS01  
Acq: 24 Jan 2022 16:36

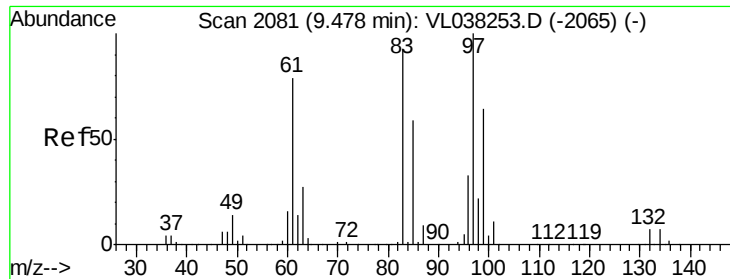
Tgt Ion: 75 Resp: 646808  
Ion Ratio Lower Upper  
75 100  
77 30.7 24.9 37.3



#46  
cis-1,3-Dichloropropene  
Concen: 10.391 ppbv  
RT: 8.71 min Scan# 1842  
Delta R.T. 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

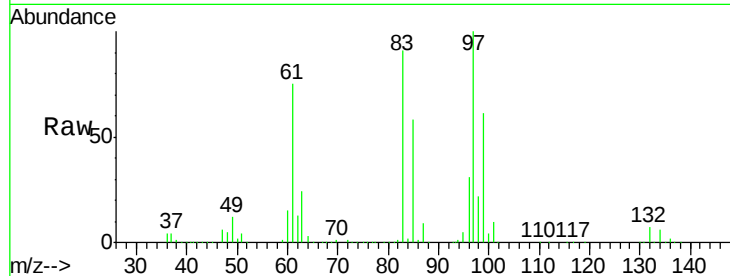
Tgt Ion: 75 Resp: 805432  
Ion Ratio Lower Upper  
75 100  
39 66.8 52.3 78.5  
77 32.1 25.4 38.0



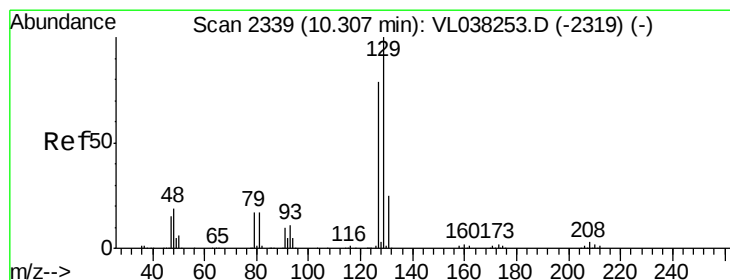
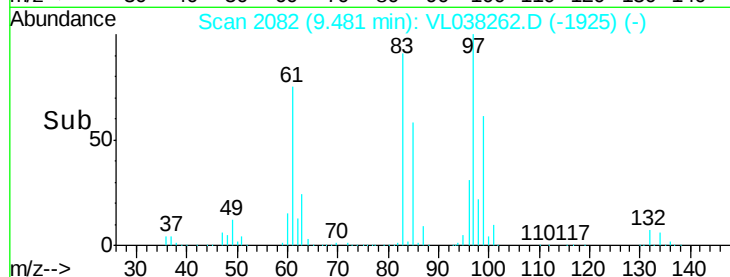
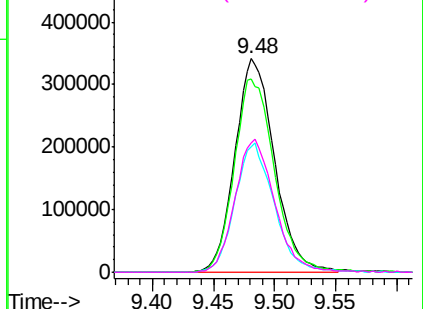


#47  
 1,1,2-Trichloroethane  
 Concen: 9.506 ppbv  
 RT: 9.48  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 765510 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 90.6  | 74.3  | 111.5  |
| 85       | 58.5  | 47.5  | 71.3   |
| 99       | 60.5  | 51.1  | 76.7   |

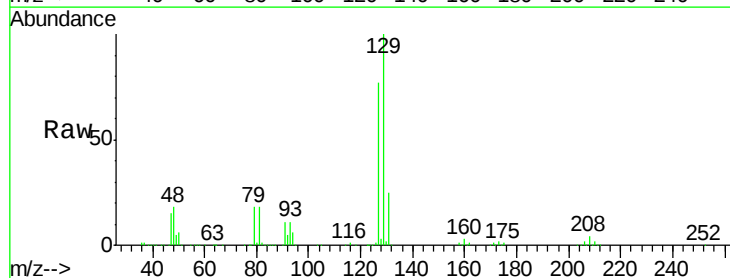


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

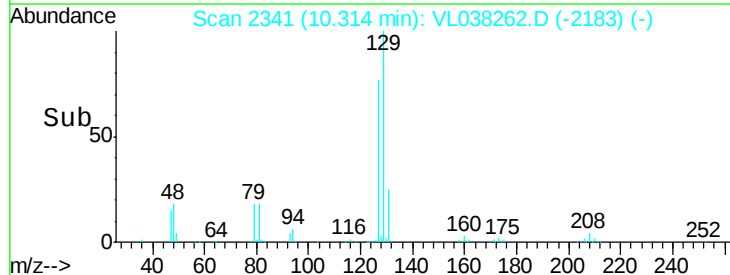
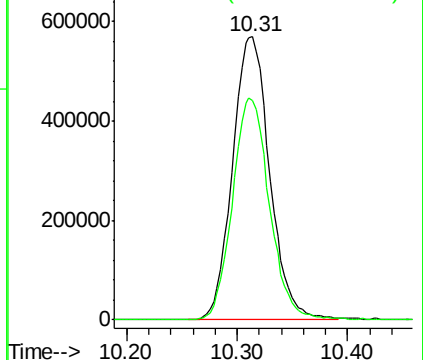


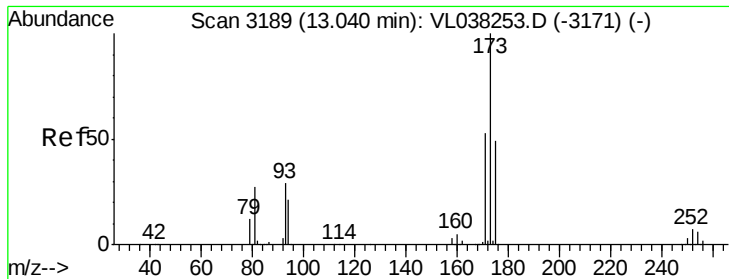
#48  
 Dibromochloromethane  
 Concen: 9.810 ppbv  
 RT: 10.31 min Scan# 2341  
 Delta R.T.: 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 1330000 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 78.4  | 39.1  | 117.3   |



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.536 ppbv

RT: 13.05

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

VL0124ABS01

Acq: 24 Jan 2022 16:36

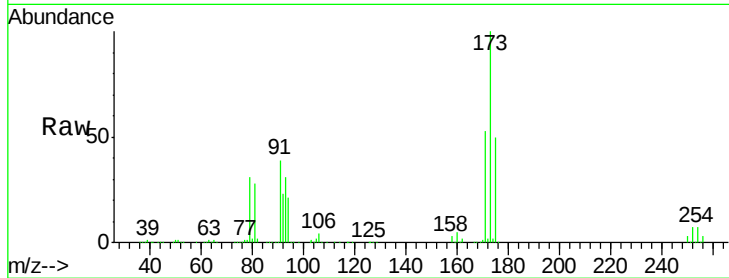
Tgt Ion: 173 Resp: 1029806

Ion Ratio Lower Upper

173 100

175 49.4 39.7 59.5

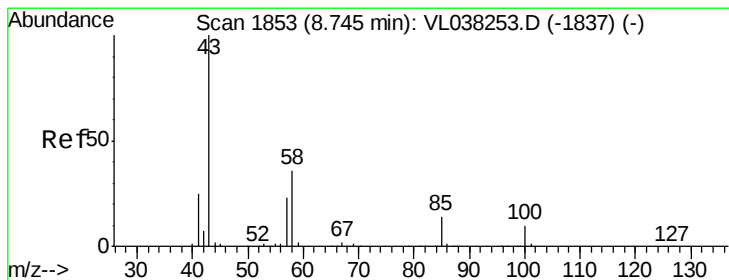
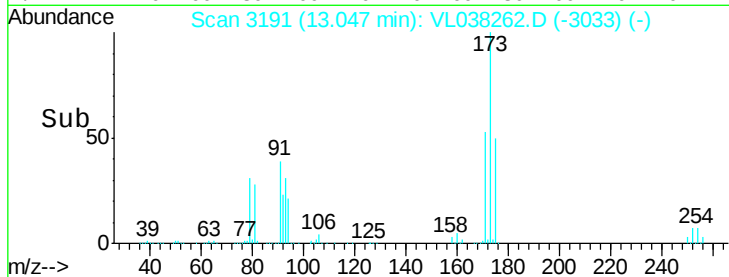
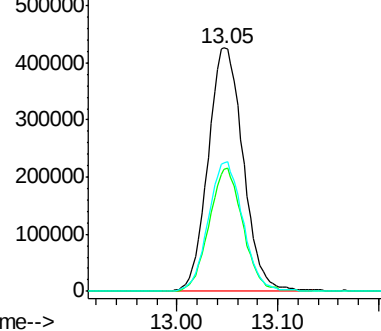
171 52.9 42.1 63.1



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: 9.571 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL038262.D

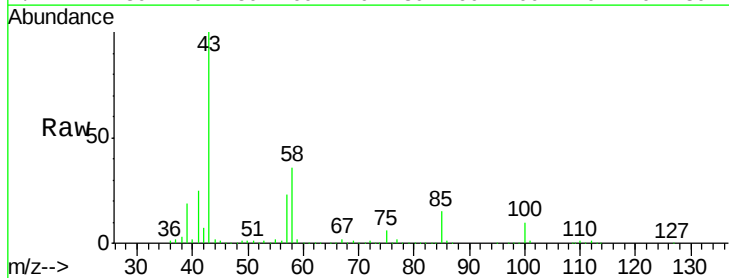
Acq: 24 Jan 2022 16:36

Tgt Ion: 43 Resp: 1276037

Ion Ratio Lower Upper

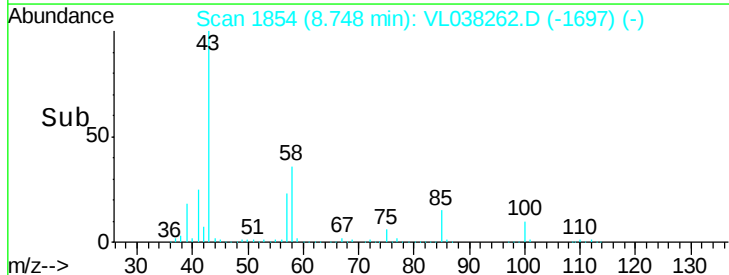
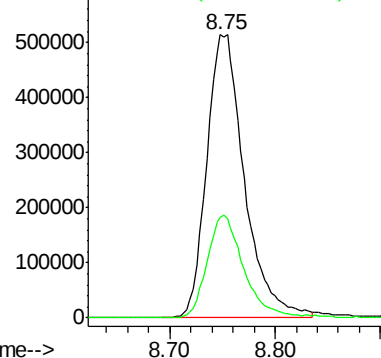
43 100

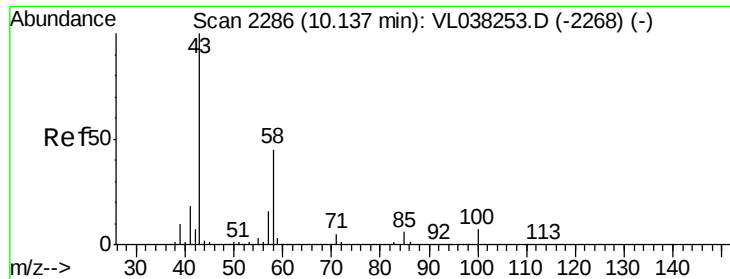
58 35.7 28.2 42.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

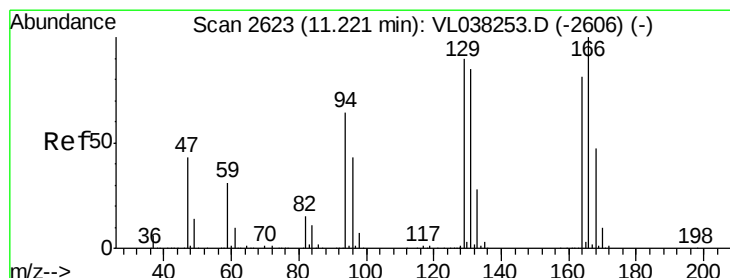
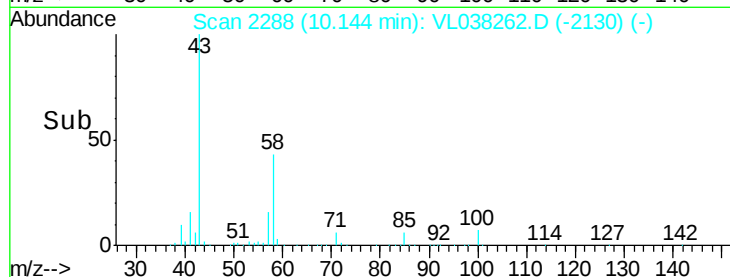
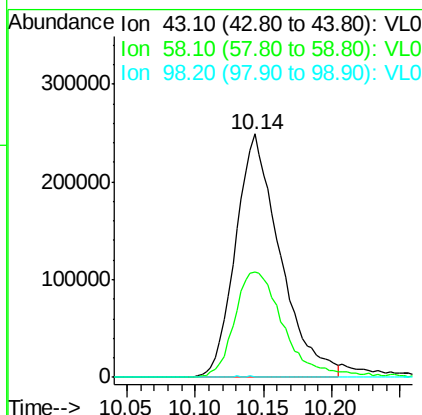
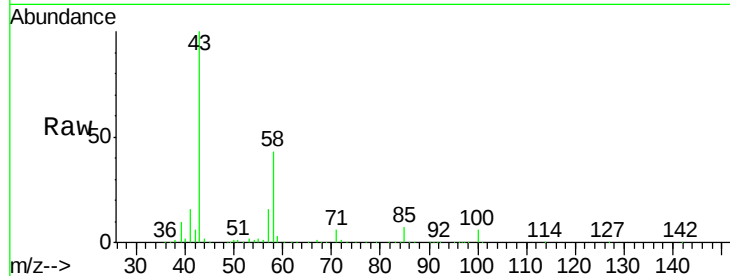
Ion 58.10 (57.80 to 58.80): VL0





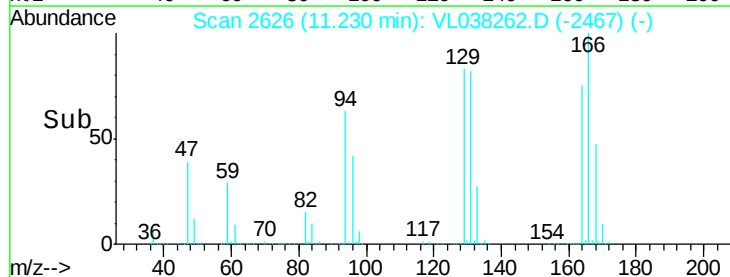
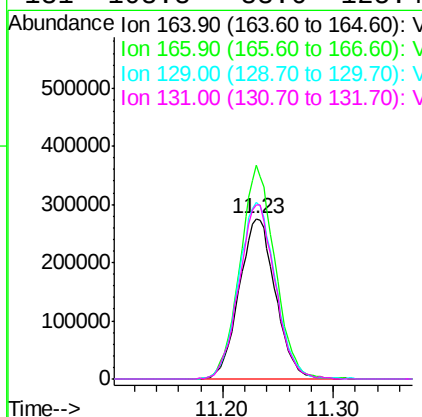
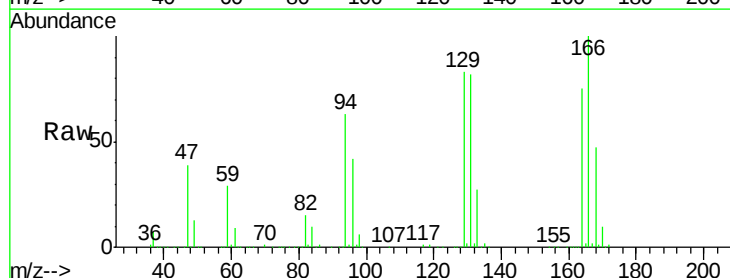
#51  
2-Hexanone  
Concen: 9.615 ppbv  
RT: 10.14 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

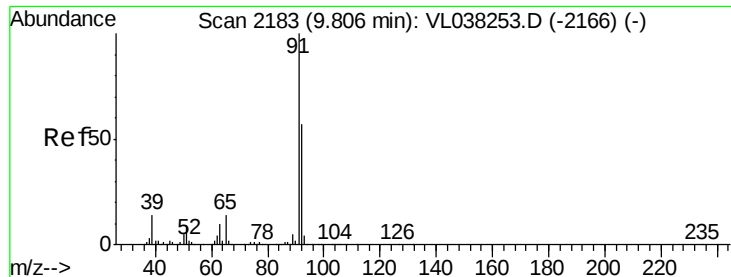
Tgt Ion: 43 Resp: 564552  
Ion Ratio Lower Upper  
43 100  
58 48.9 37.0 55.4  
98 0.2 0.2 0.2



#52  
Tetrachloroethene  
Concen: 8.967 ppbv  
RT: 11.23 min Scan# 2626  
Delta R.T.: 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

Tgt Ion: 164 Resp: 624750  
Ion Ratio Lower Upper  
164 100  
166 133.0 98.8 148.2  
129 110.5 89.2 133.8  
131 108.8 83.6 125.4





#53

Toluene

Concen: 9.691 ppbv

RT: 9.82

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

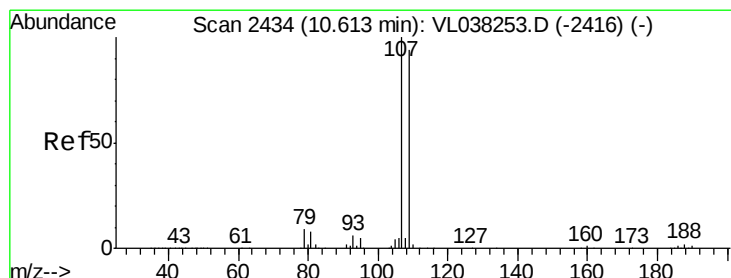
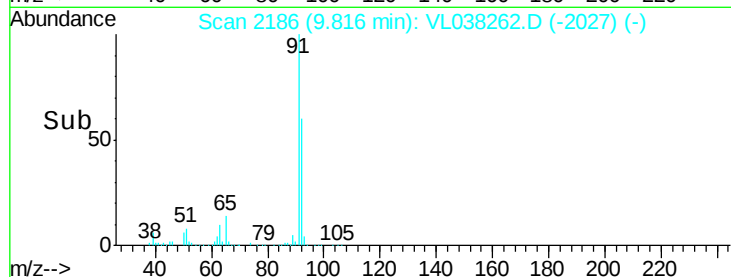
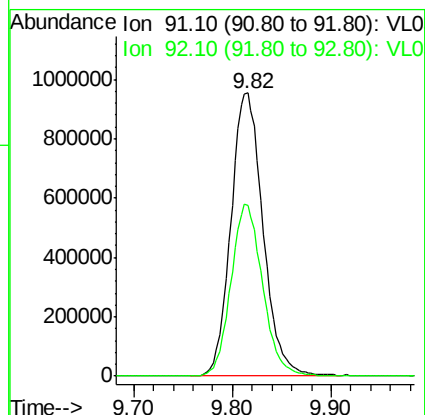
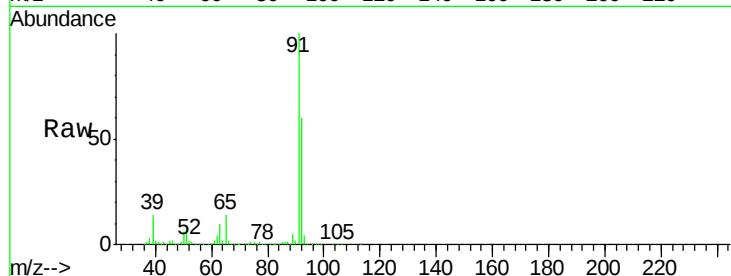
Acq: 24 Jan 2022 16:30

Tgt Ion: 91 Resp: 2168425

Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0



#54

1,2-Dibromoethane

Concen: 9.944 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL038262.D

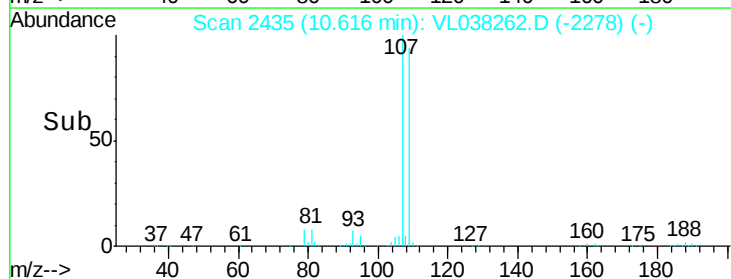
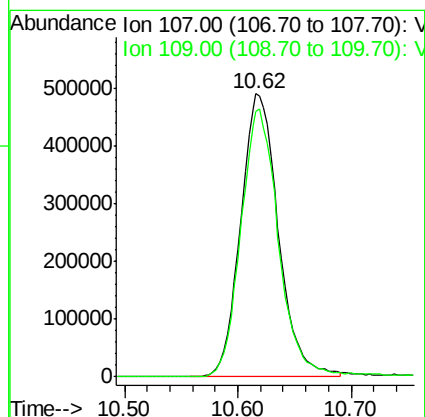
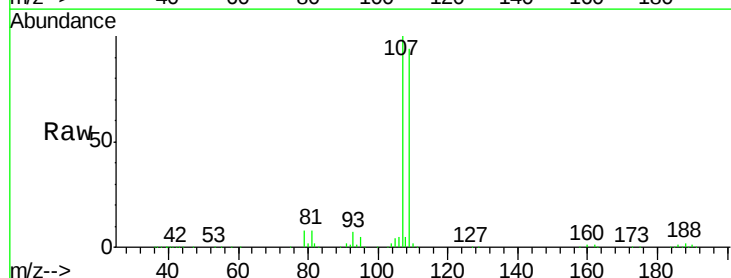
Acq: 24 Jan 2022 16:36

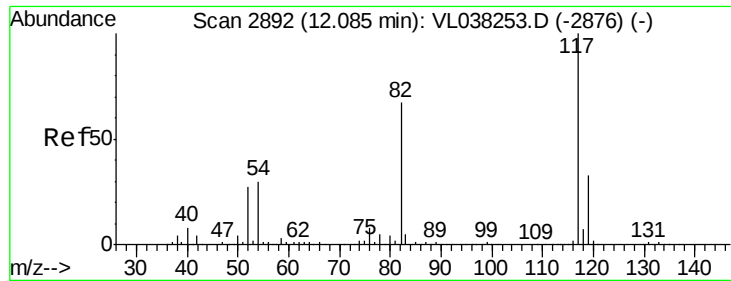
Tgt Ion: 107 Resp: 1138497

Ion Ratio Lower Upper

107 100

109 93.8 75.4 113.0

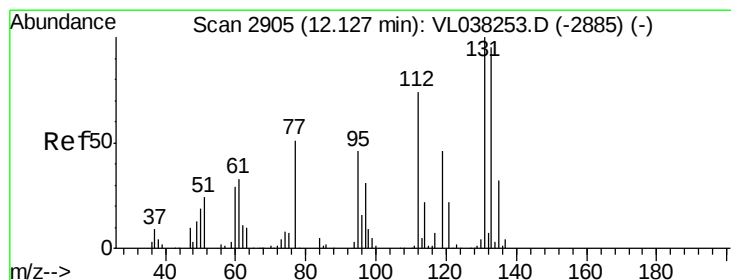
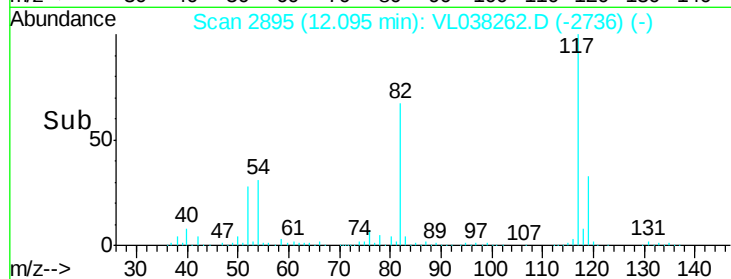
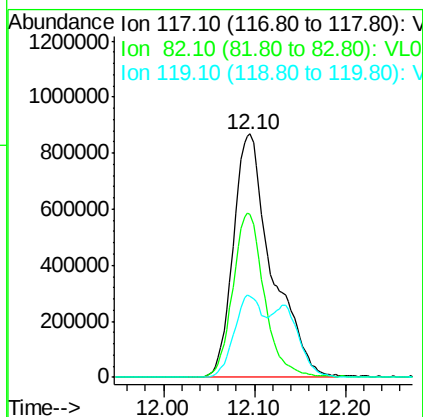
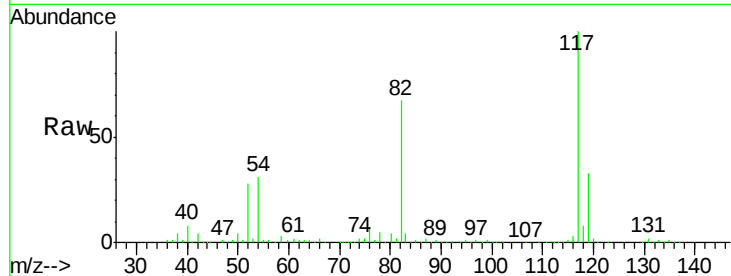




#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampled : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

Tgt Ion:117 Resp: 2561978

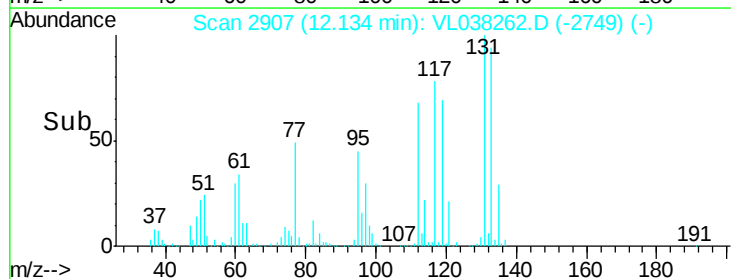
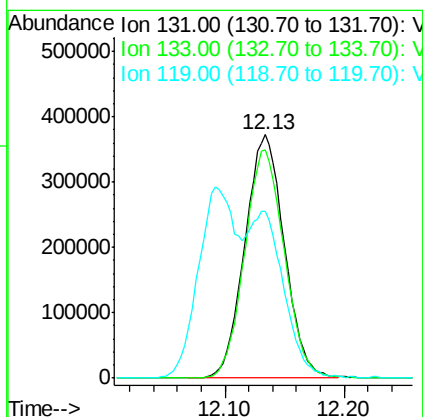
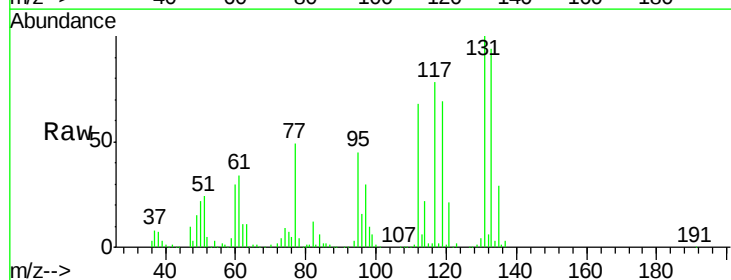
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 55.5  | 54.4  | 81.6  |
| 119 | 27.4  | 45.9  | 68.9# |

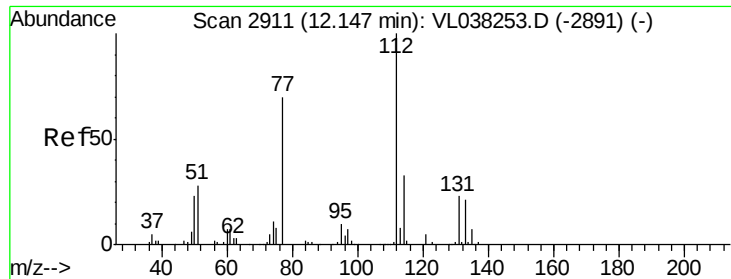


#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 7.623 ppbv  
 RT: 12.13 min Scan# 2907  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion:131 Resp: 854813

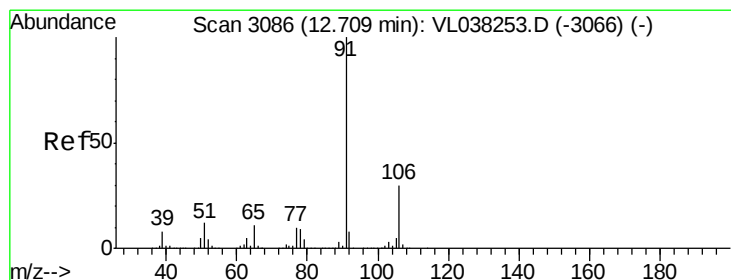
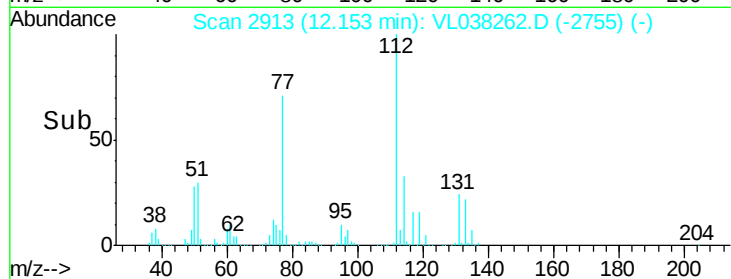
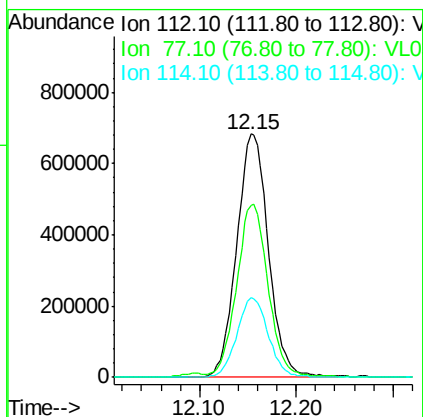
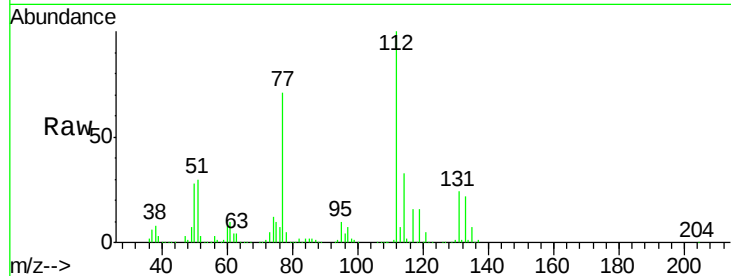
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 131 | 100   |       |       |
| 133 | 94.6  | 76.0  | 114.0 |
| 119 | 58.5  | 53.0  | 79.4  |





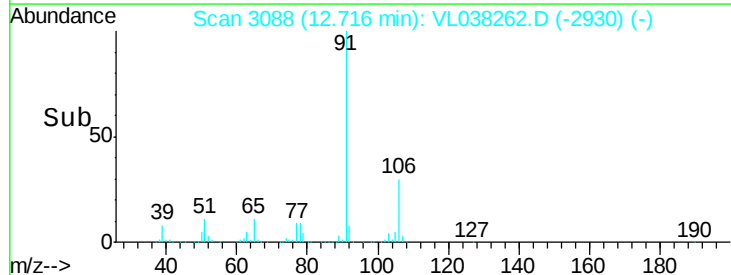
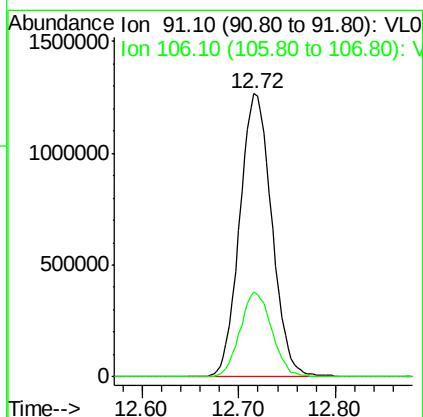
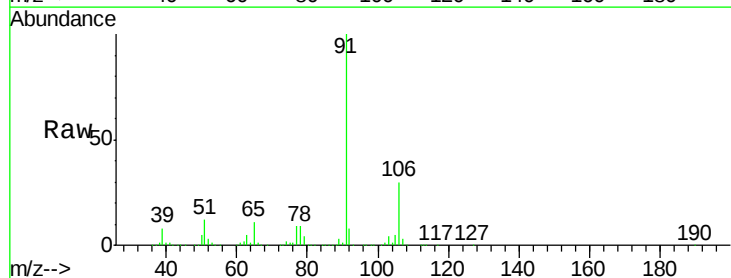
#57  
Chlorobenzene  
Concen: 7.593 ppbv  
RT: 12.15 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:30

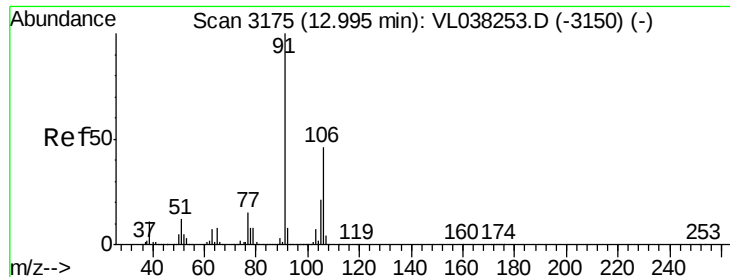
Tgt Ion: 112 Resp: 1556666  
Ion Ratio Lower Upper  
112 100  
77 70.4 55.9 83.9  
114 32.6 29.3 35.9



#58  
Ethyl Benzene  
Concen: 7.761 ppbv  
RT: 12.72 min Scan# 3088  
Delta R.T. 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

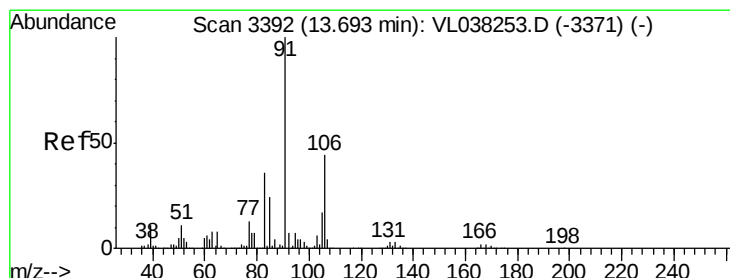
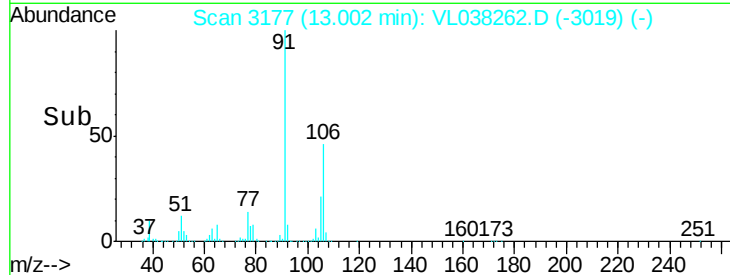
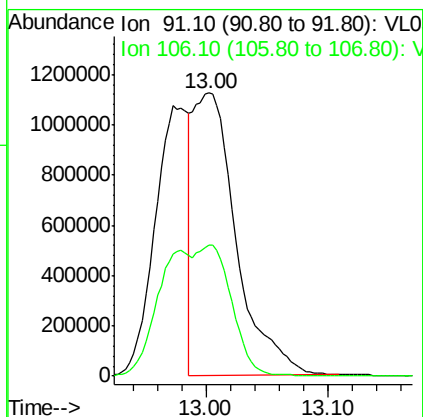
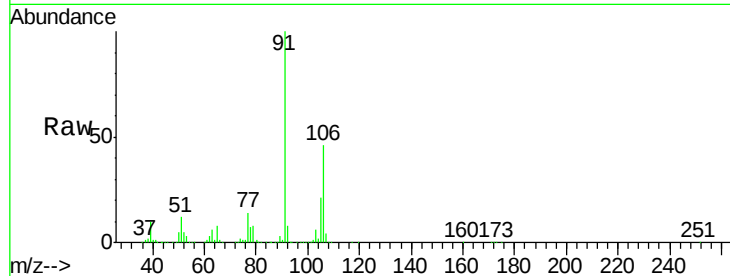
Tgt Ion: 91 Resp: 2922192  
Ion Ratio Lower Upper  
91 100  
106 30.2 24.1 36.1





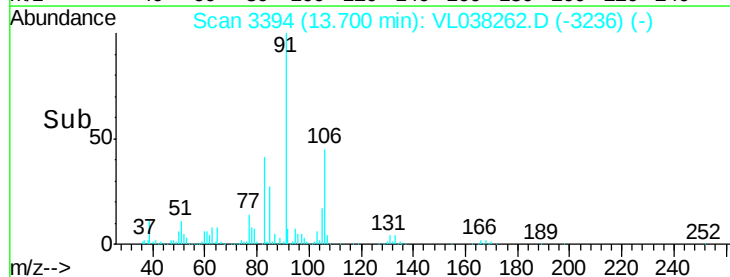
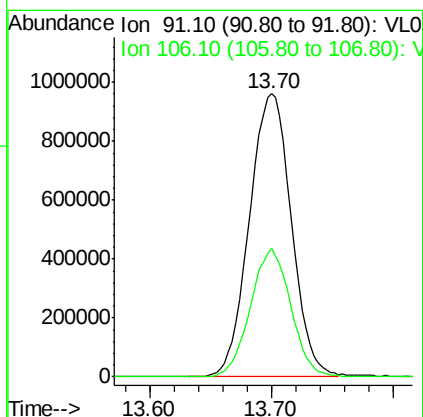
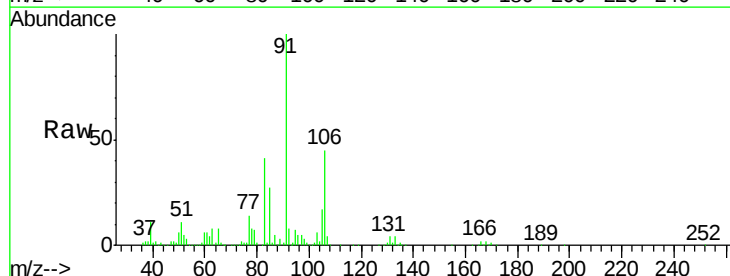
#59  
m/p-Xylene  
Concen: 8.548 ppbv  
RT: 13.00 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

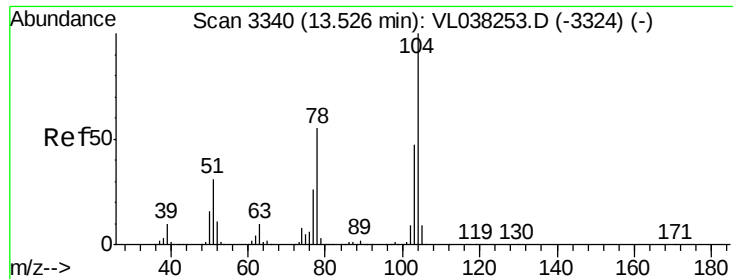
Tgt Ion: 91 Resp: 2745859  
Ion Ratio Lower Upper  
91 100  
106 75.5 34.8 52.2#



#60  
o-Xylene  
Concen: 7.645 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

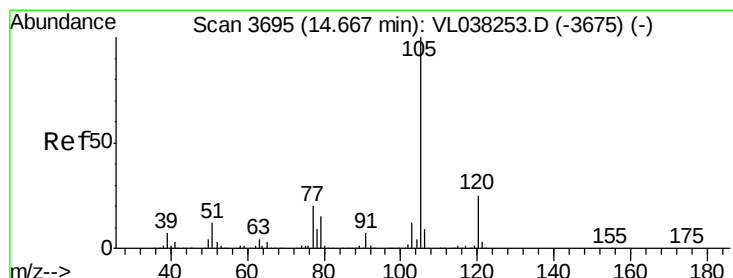
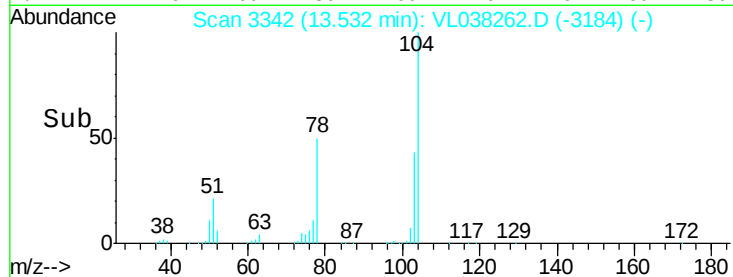
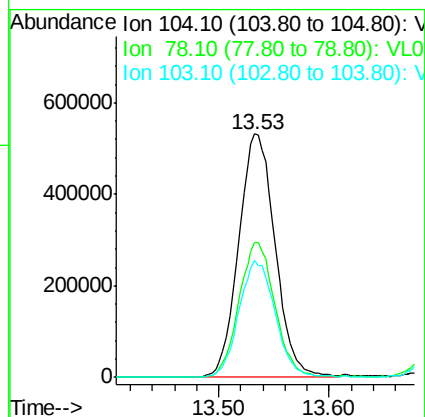
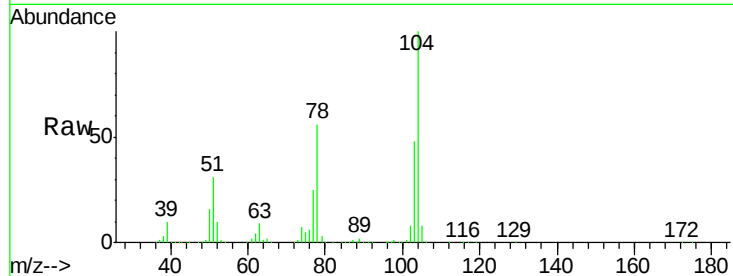
Tgt Ion: 91 Resp: 2284176  
Ion Ratio Lower Upper  
91 100  
106 43.8 22.2 66.6





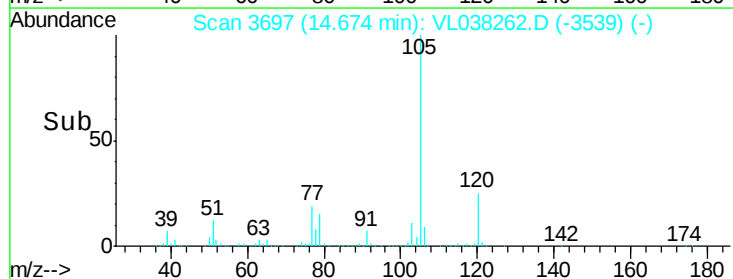
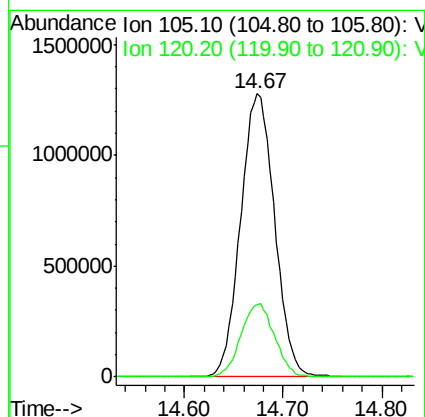
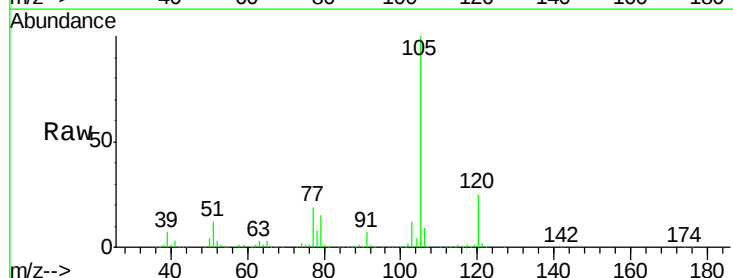
#61  
Styrene  
Concen: 8.749 ppbv  
RT: 13.53  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0124ABS01  
Acq: 24 Jan 2022 16:36

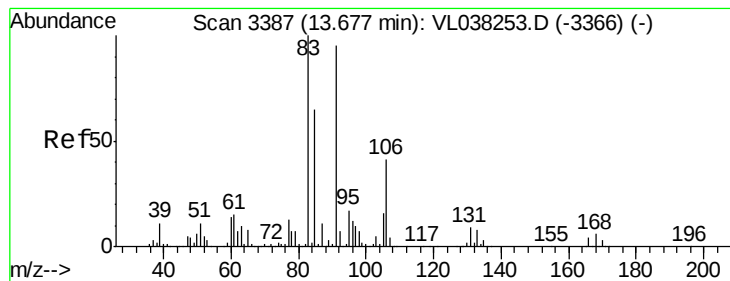
Tgt Ion:104 Resp: 1219960  
Ion Ratio Lower Upper  
104 100  
78 54.9 44.2 66.4  
103 48.1 38.2 57.4



#62  
Isopropylbenzene  
Concen: 7.661 ppbv  
RT: 14.67 min Scan# 3697  
Delta R.T. 0.01 min  
Lab File: VL038262.D  
Acq: 24 Jan 2022 16:36

Tgt Ion:105 Resp: 3051377  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 7.410 ppbv

RT: 13.68

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36

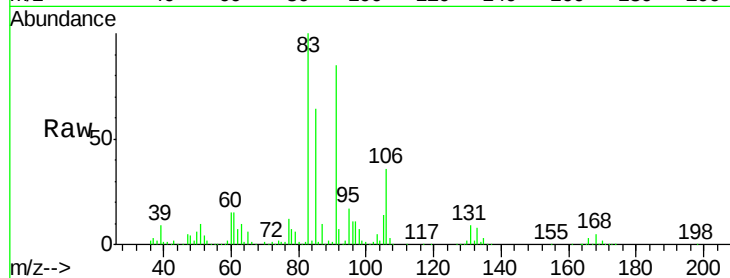
Tgt Ion: 83 Resp: 1638234

Ion Ratio Lower Upper

83 100

131 9.1 4.5 13.5

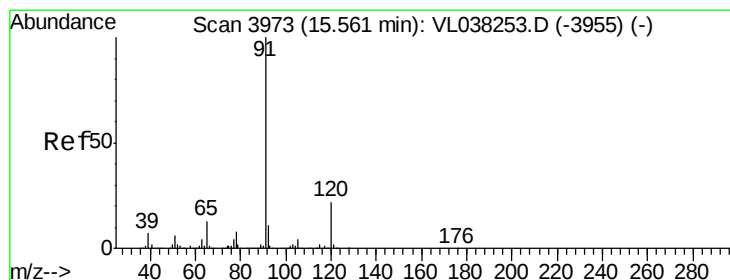
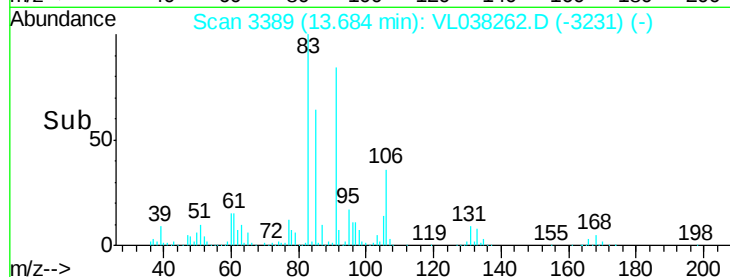
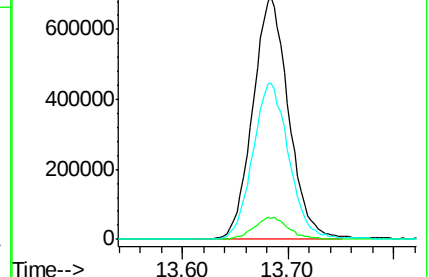
85 65.7 32.8 98.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.145 ppbv

RT: 15.57 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VL038262.D

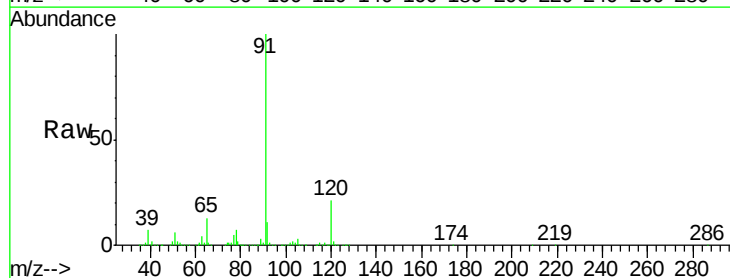
Acq: 24 Jan 2022 16:36

Tgt Ion: 120 Resp: 780419

Ion Ratio Lower Upper

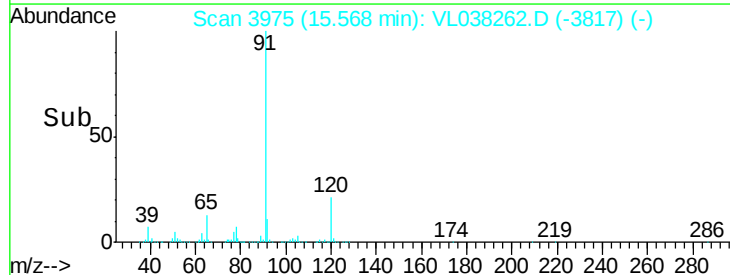
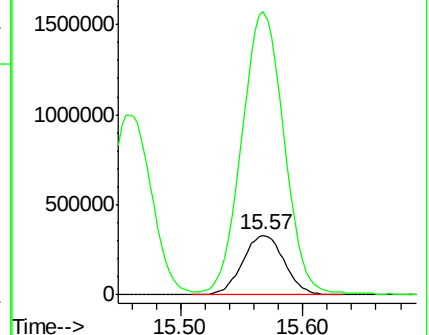
120 100

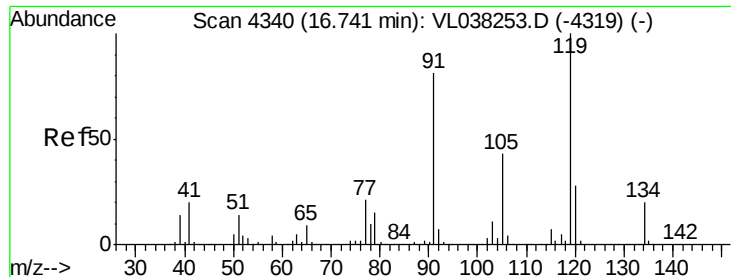
91 483.2 390.8 586.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

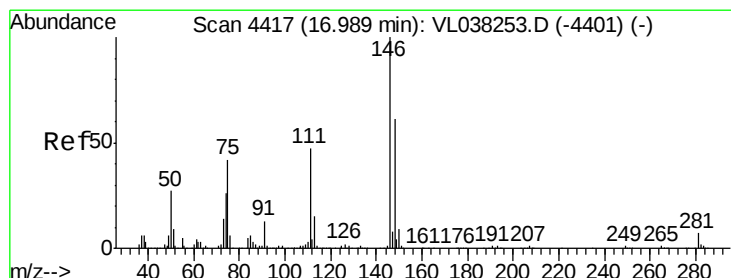
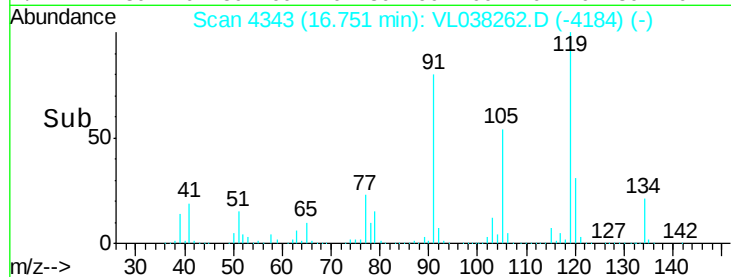
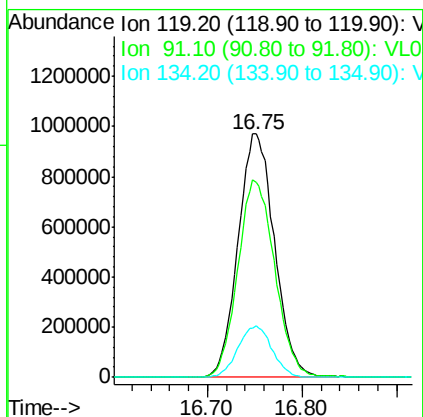
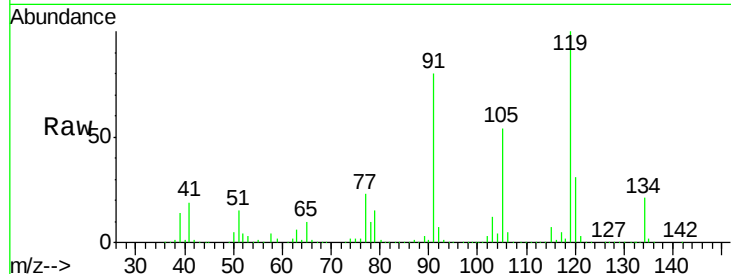
Ion 91.10 (90.80 to 91.80): VL0





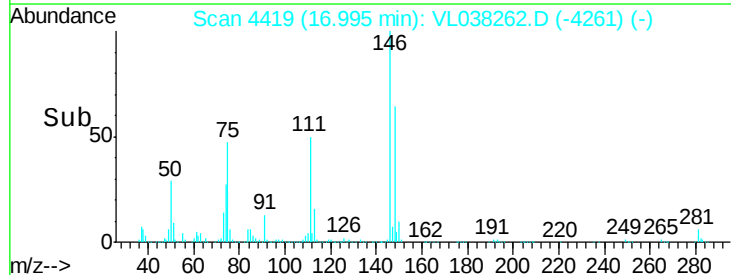
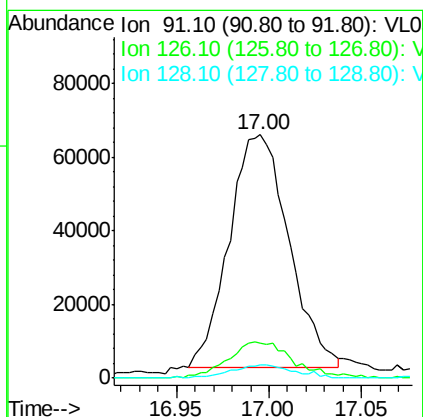
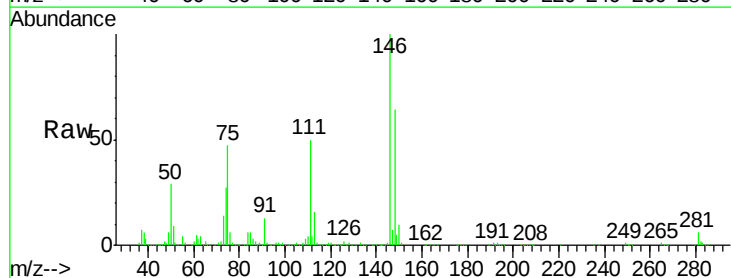
#65  
 tert-Butylbenzene  
 Concen: 7.903 ppbv  
 RT: 16.75 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:30

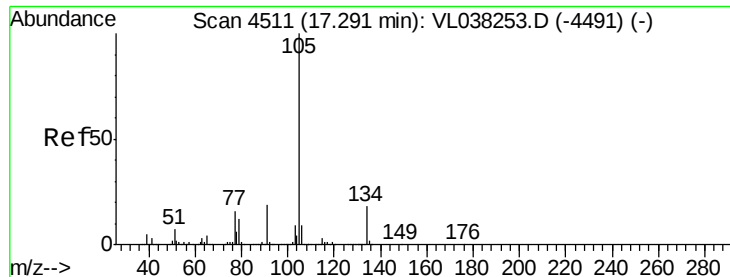
Tgt Ion: 119 Resp: 2592486  
 Ion Ratio Lower Upper  
 119 100  
 91 82.4 66.6 100.0  
 134 19.9 15.8 23.6



#66  
 Benzyl Chloride  
 Concen: 9.480 ppbv  
 RT: 17.00 min Scan# 4419  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

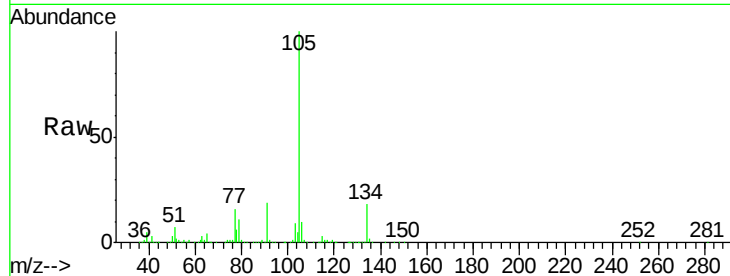
Tgt Ion: 91 Resp: 141273  
 Ion Ratio Lower Upper  
 91 100  
 126 17.3 12.6 18.8  
 128 6.0 4.3 6.5



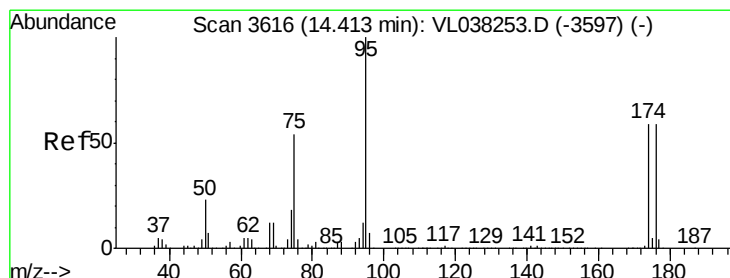
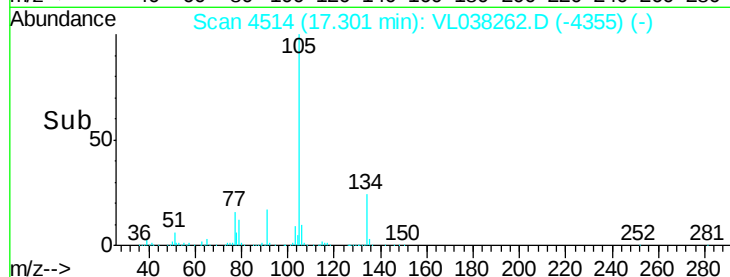
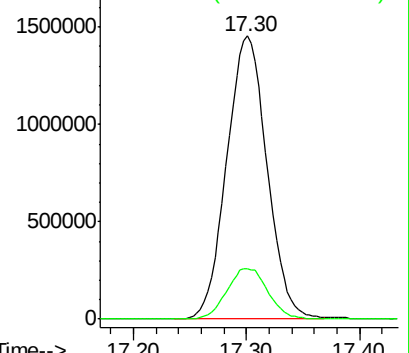


#67  
 sec-Butylbenzene  
 Concen: 7.897 ppbv  
 RT: 17.30  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 105 Resp: 3603674  
 Ion Ratio Lower Upper  
 105 100  
 134 18.3 14.3 21.5

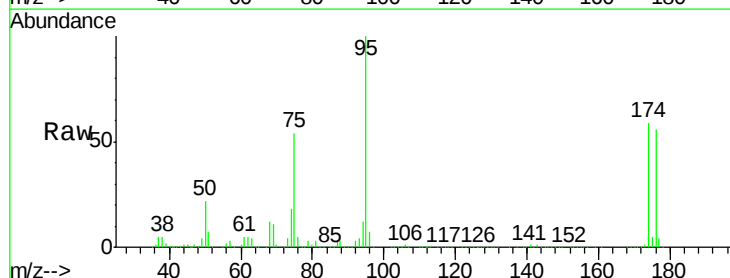


Abundance Ion 105.10 (104.80 to 105.80): V  
 Ion 134.20 (133.90 to 134.90): V

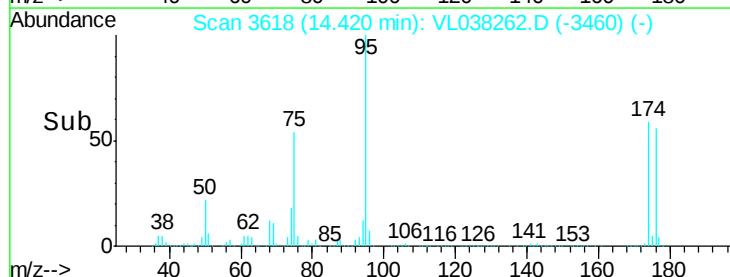
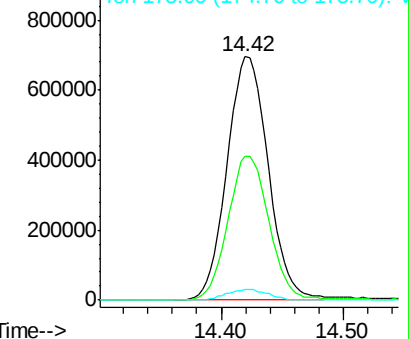


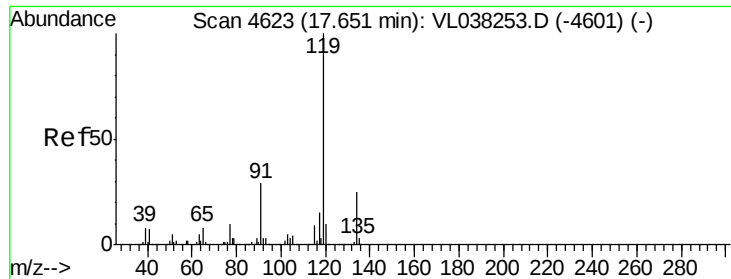
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.342 ppbv  
 RT: 14.42 min Scan# 3618  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 95 Resp: 1622147  
 Ion Ratio Lower Upper  
 95 100  
 174 59.7 48.3 72.5  
 175 4.5 3.5 5.3



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

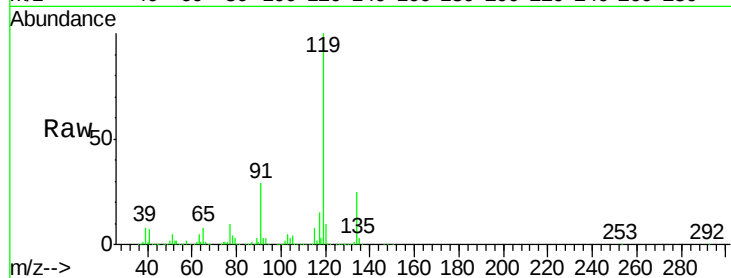




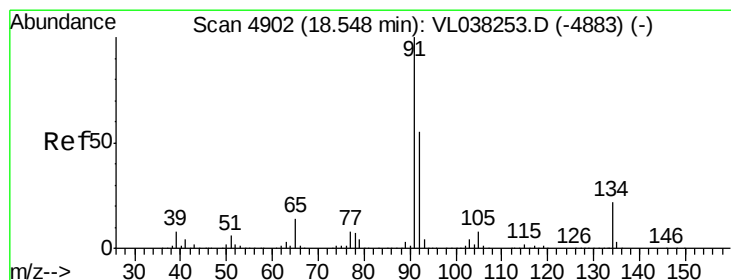
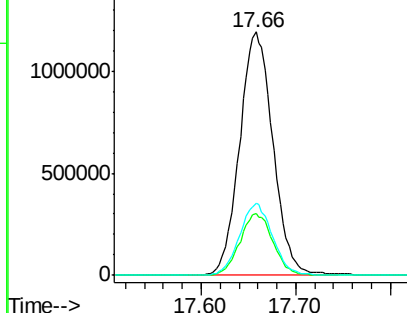
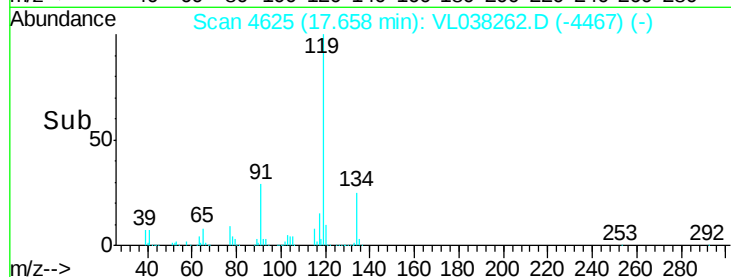
#69  
 p-Isopropyltoluene  
 Concen: 8.352 ppbv  
 RT: 17.66 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 119 Resp: 2916895

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 25.5  | 20.2  | 30.2  |
| 91  | 29.2  | 23.2  | 34.8  |



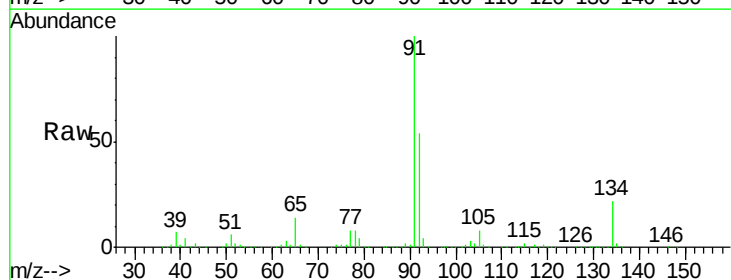
Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V



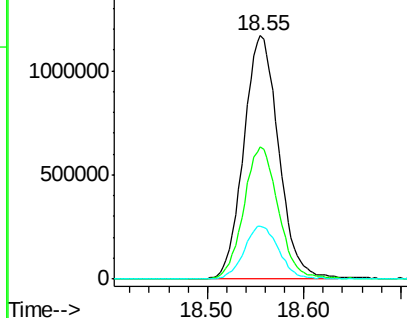
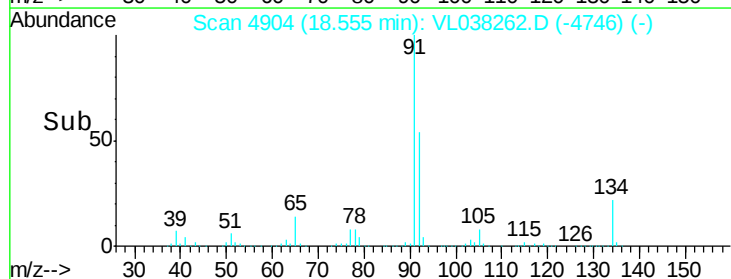
#70  
 n-Butylbenzene  
 Concen: 8.576 ppbv  
 RT: 18.55 min Scan# 4904  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

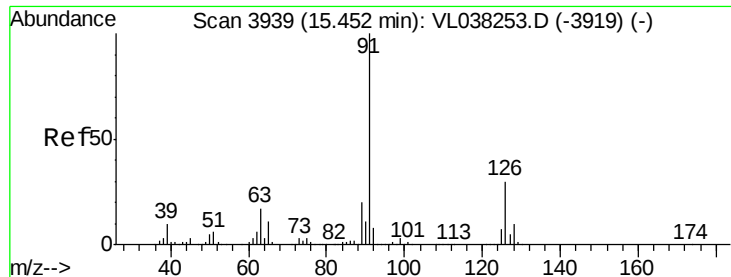
Tgt Ion: 91 Resp: 2933617

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 53.8  | 43.4  | 65.0  |
| 134 | 21.8  | 17.3  | 25.9  |



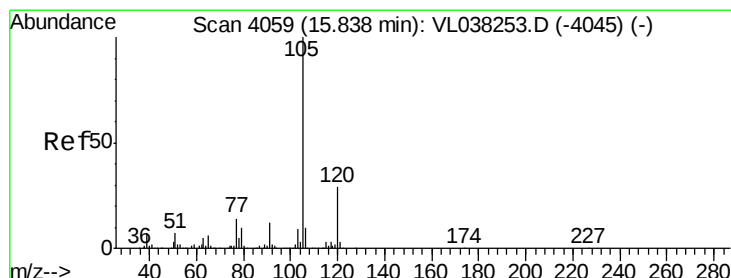
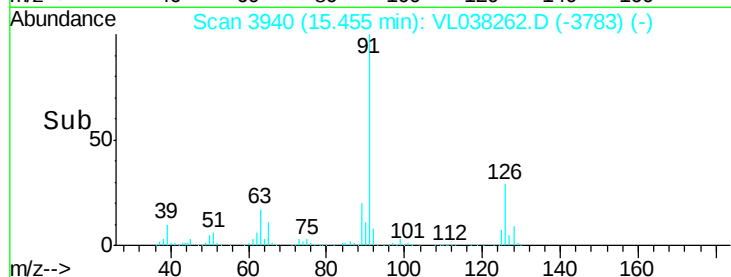
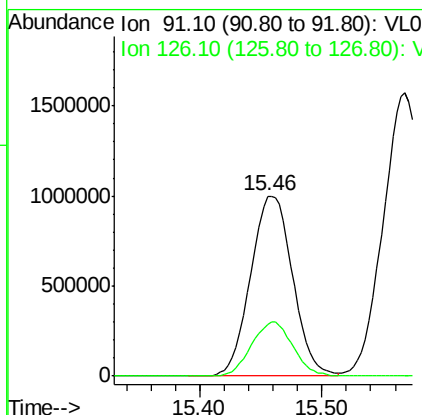
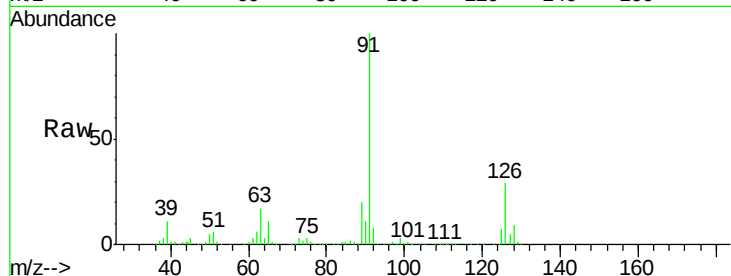
Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V





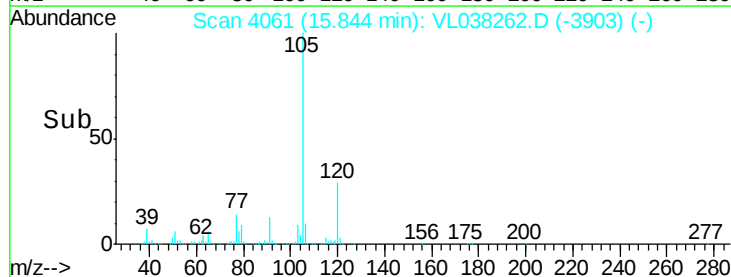
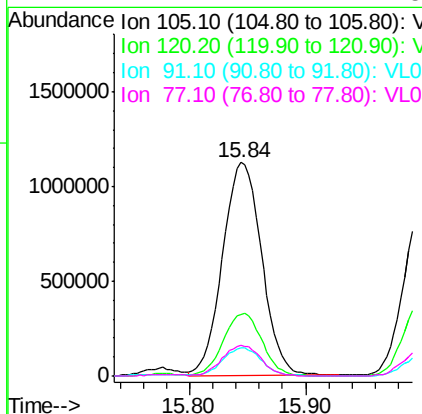
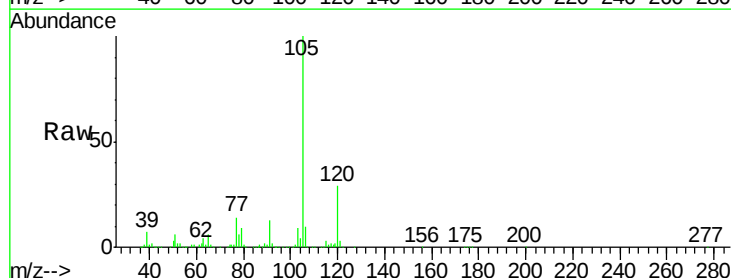
#71  
 2-Chlorotoluene  
 Concen: 8.092 ppbv  
 RT: 15.46 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:30

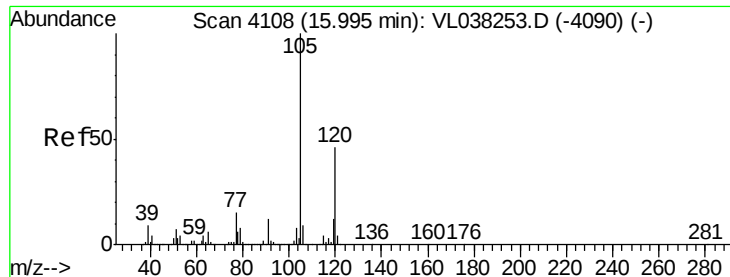
Tgt Ion: 91 Resp: 2387335  
 Ion Ratio Lower Upper  
 91 100  
 126 29.7 12.1 48.5



#72  
 4-Ethyltoluene  
 Concen: 8.417 ppbv  
 RT: 15.84 min Scan# 4061  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion: 105 Resp: 2629931  
 Ion Ratio Lower Upper  
 105 100  
 120 29.5 23.8 35.8  
 91 12.7 10.2 15.4  
 77 14.4 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 8.238 ppbv

RT: 16.01 min

Delta R.T. 0.01 min

Lab File: VL0124ABS01

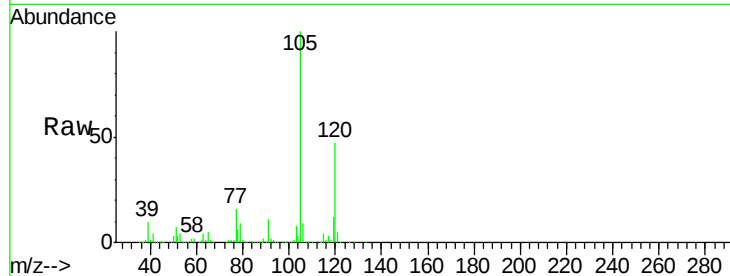
Acq: 24 Jan 2022 16:36

Tgt Ion: 105 Resp: 2314758

Ion Ratio Lower Upper

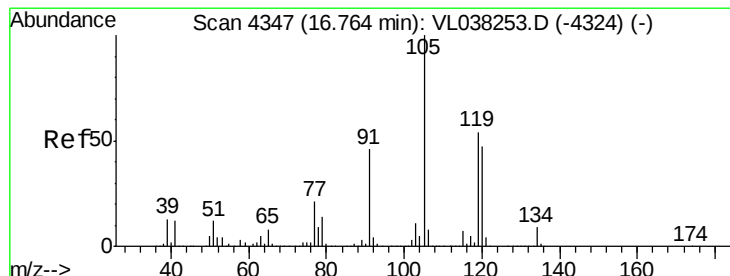
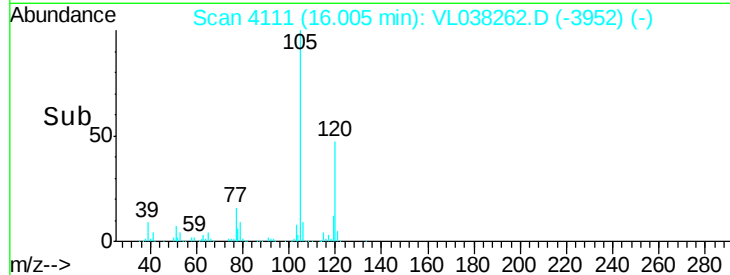
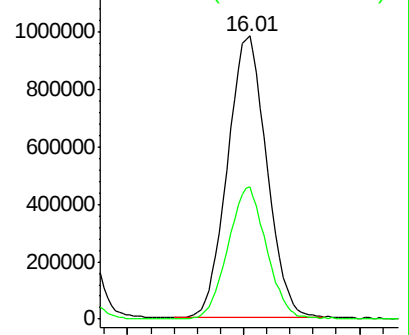
105 100

120 46.6 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.044 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

Tgt Ion: 105 Resp: 2381188

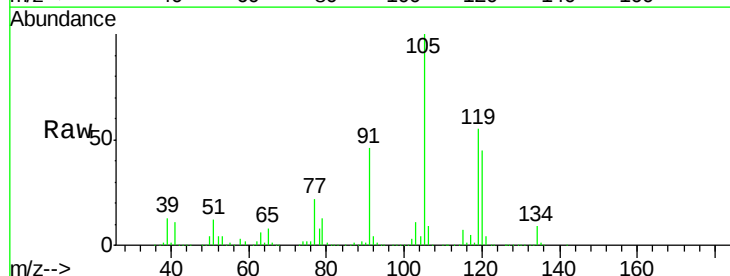
Ion Ratio Lower Upper

105 100

120 45.0 37.2 55.8

91 45.4 36.6 55.0

77 21.5 16.9 25.3

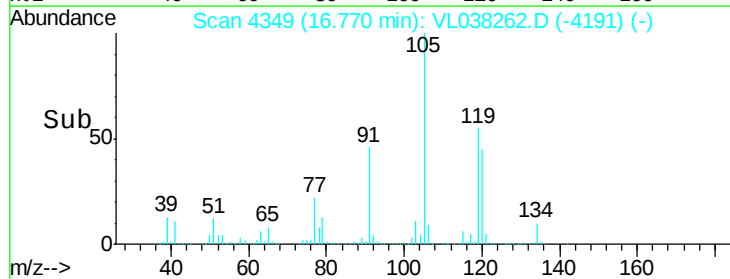
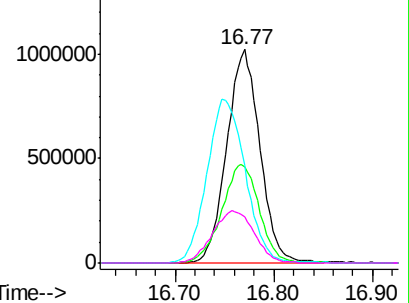


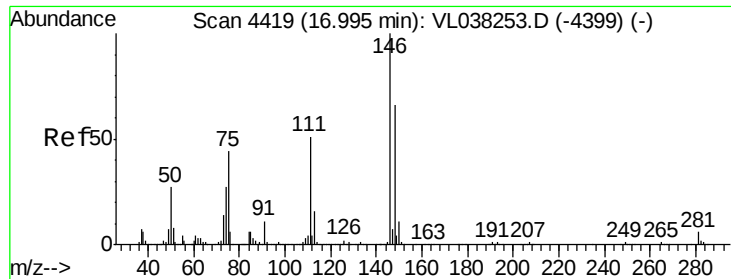
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

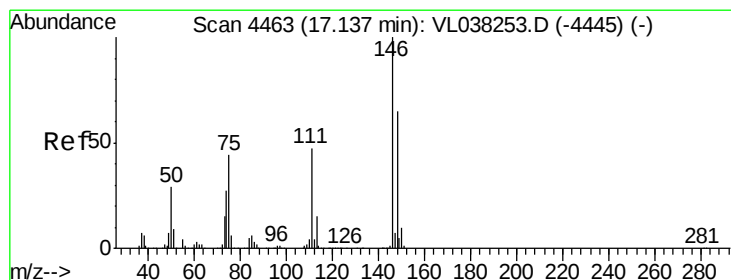
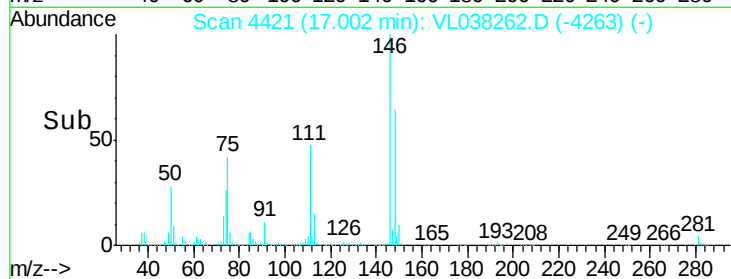
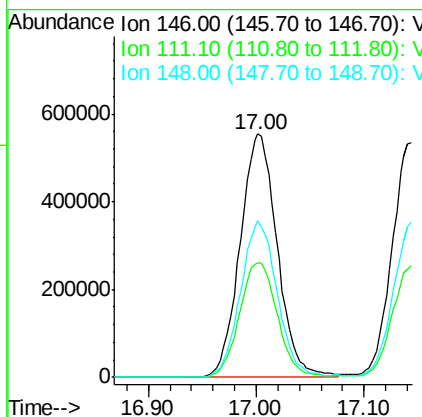
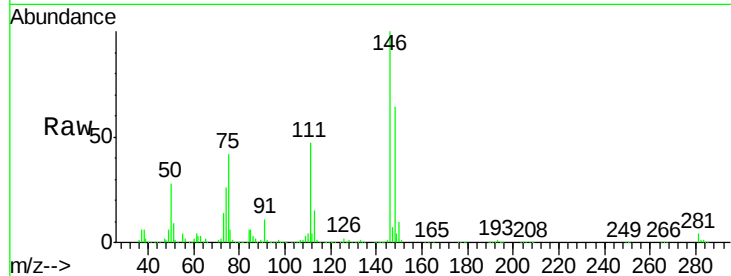




#75  
 1,3-Dichlorobenzene  
 Concen: 8.367 ppbv  
 RT: 17.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0124ABS01  
 Acq: 24 Jan 2022 16:30

Tgt Ion:146 Resp: 1329044

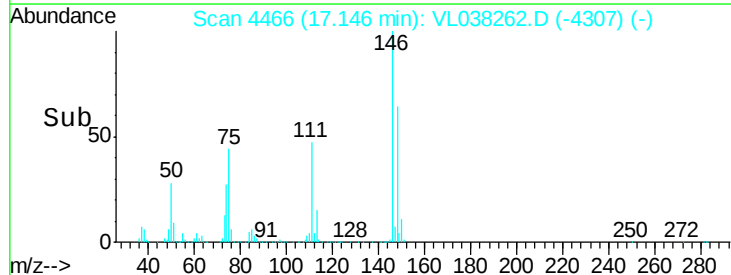
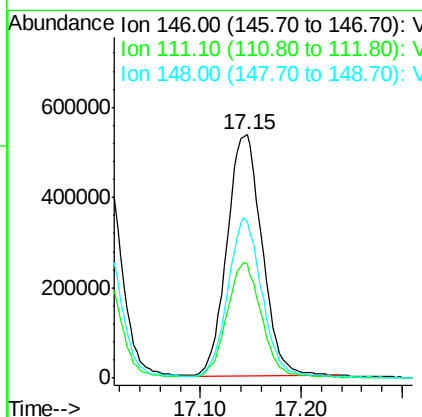
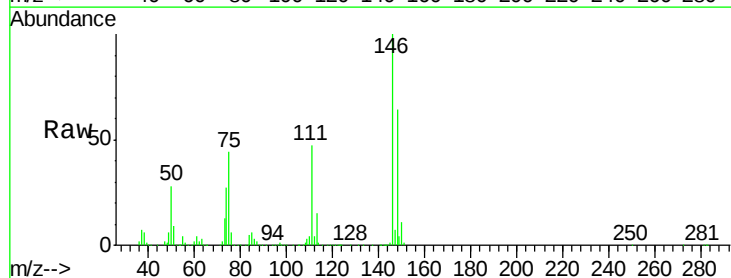
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 48.4  | 24.1  | 72.4  |
| 148 | 63.9  | 32.1  | 96.5  |

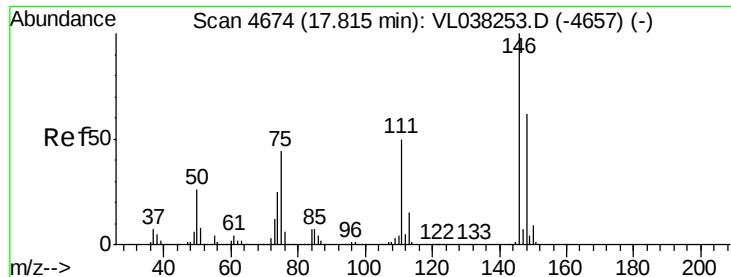


#76  
 1,4-Dichlorobenzene  
 Concen: 8.467 ppbv  
 RT: 17.15 min Scan# 4466  
 Delta R.T. 0.01 min  
 Lab File: VL038262.D  
 Acq: 24 Jan 2022 16:36

Tgt Ion:146 Resp: 1302200

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 47.5  | 23.2  | 69.6  |
| 148 | 65.1  | 32.4  | 97.0  |





#77

1,2-Dichlorobenzene

Concen: 8.337 ppbv

RT: 17.82

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36

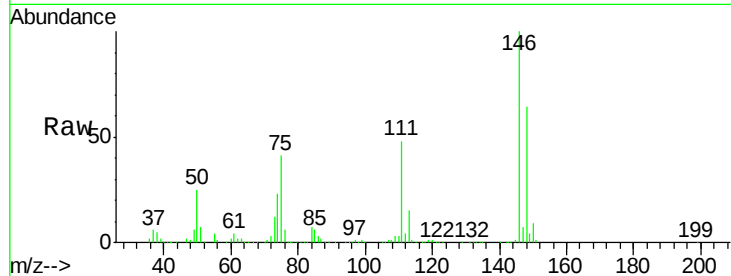
Tgt Ion:146 Resp: 1230073

Ion Ratio Lower Upper

146 100

111 50.4 25.2 75.6

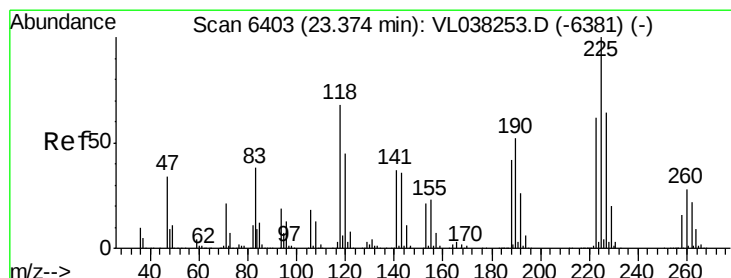
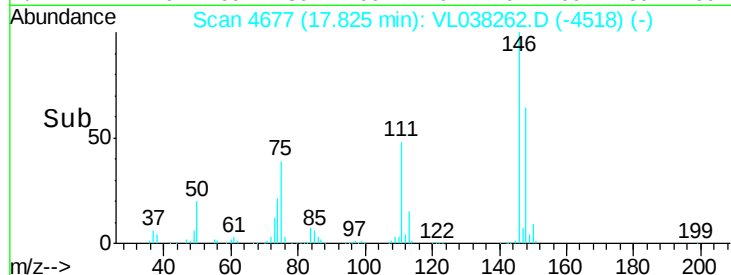
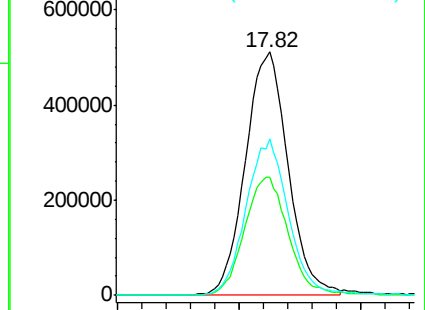
148 64.1 32.6 97.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.299 ppbv

RT: 23.38 min Scan# 6405

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

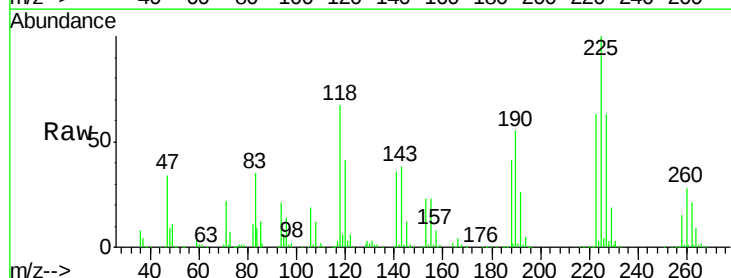
Tgt Ion:225 Resp: 646120

Ion Ratio Lower Upper

225 100

223 64.8 51.7 77.5

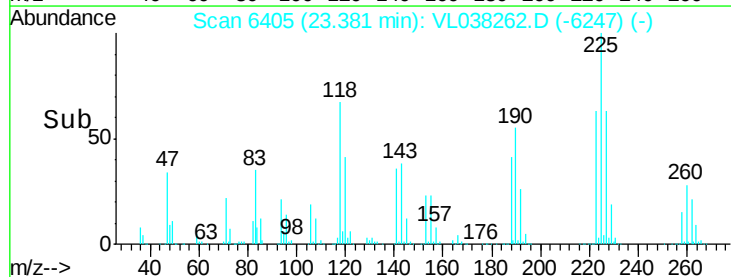
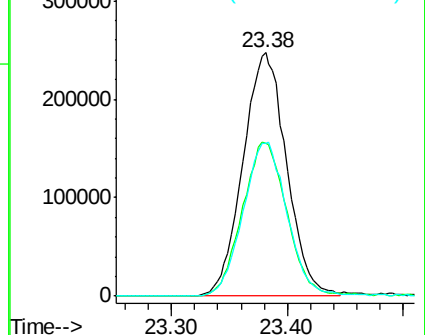
227 64.2 51.4 77.0

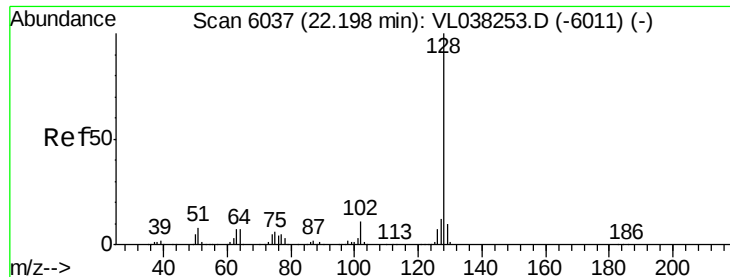


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.166 ppbv

RT: 22.20 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 16:36

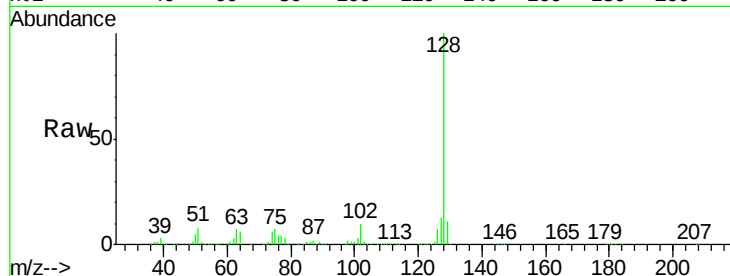
Tgt Ion:128 Resp: 1130119

Ion Ratio Lower Upper

128 100

127 12.5 9.7 14.5

129 10.6 8.1 12.1

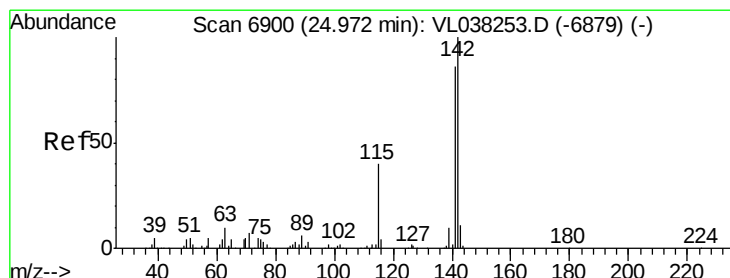
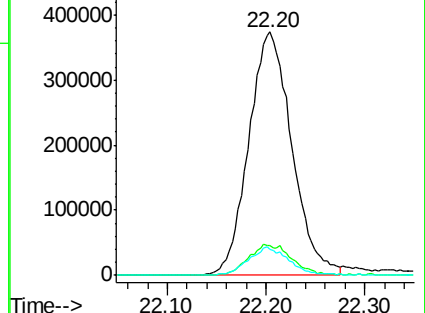
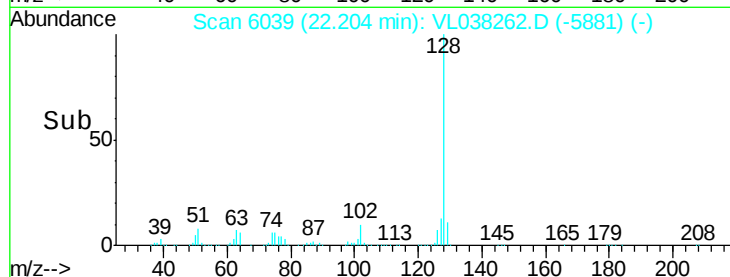


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

22.20



#80

Naphthalene, 2-methyl-

Concen: 13.126 ppbv

RT: 24.98 min Scan# 6902

Delta R.T. 0.01 min

Lab File: VL038262.D

Acq: 24 Jan 2022 16:36

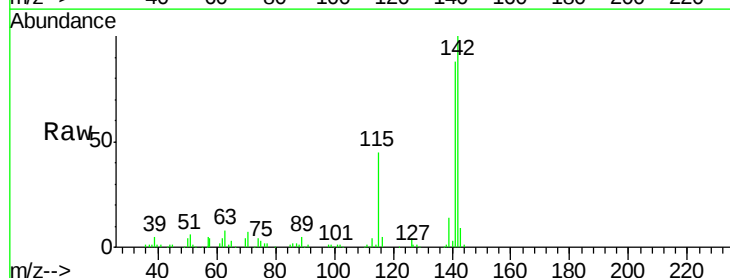
Tgt Ion:142 Resp: 197563

Ion Ratio Lower Upper

142 100

141 82.3 70.2 105.4

115 39.7 31.8 47.6

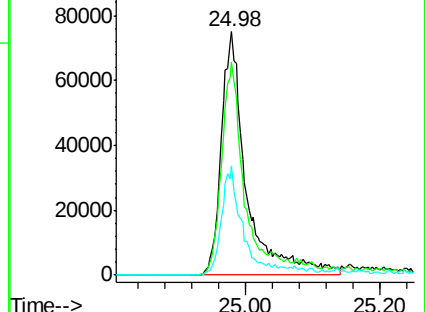
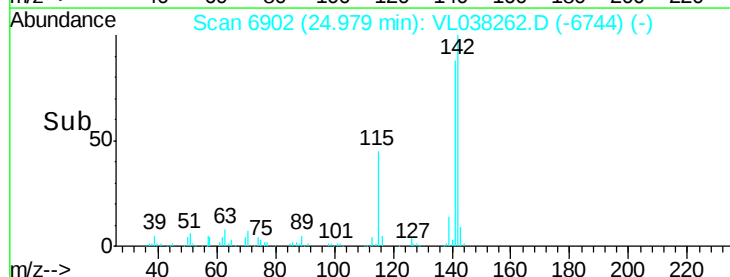


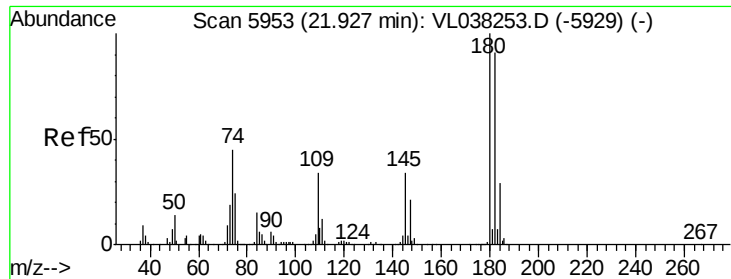
Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

24.98





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.535 ppbv  
 RT: 21.94  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0124ABS01  
 Acq: 24 Jan 2022 18:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 613403 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 97.0  | 77.7  | 116.5  |
| 184       | 31.2  | 24.4  | 36.6   |

