

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041922\  
 Data File : VL038945.D  
 Acq On : 19 Apr 2022 11:58  
 Operator : SY/AP  
 Sample : VL0419ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VL0419ABS01

Quant Time: Apr 20 04:23:51 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1178929  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3093846  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3683797  | 10.00 | ppbv  | 0.02     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2333024  | 8.35     | ppbv | 0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.50% |

## Target Compounds

|                                |      |     |         |        | Ovalue     |
|--------------------------------|------|-----|---------|--------|------------|
| 2) Dichlorodifluoromethane     | 3.07 | 85  | 2314632 | 13.842 | ppbv 98    |
| 3) Chlorodifluoromethane       | 3.01 | 51  | 1405221 | 9.767  | ppbv 97    |
| 4) Chloromethane               | 3.16 | 50  | 709615  | 9.525  | ppbv 98    |
| 5) Vinyl Chloride              | 3.28 | 62  | 690973  | 10.037 | ppbv 96    |
| 6) Bromomethane                | 3.49 | 94  | 354322  | 10.638 | ppbv 95    |
| 7) Chloroethane                | 3.57 | 64  | 241499  | 10.520 | ppbv 94    |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1608622 | 10.298 | ppbv 98    |
| 9) Propene                     | 3.03 | 41  | 698544  | 9.176  | ppbv 100   |
| 10) Heptane                    | 8.14 | 43  | 1741587 | 9.083  | ppbv 97    |
| 11) Trichlorofluoromethane     | 3.97 | 101 | 1541807 | 11.474 | ppbv 100   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 1156396 | 11.235 | ppbv 96    |
| 13) Ethanol                    | 3.62 | 45  | 36160   | 7.817  | ppbv # 100 |
| 14) Bromoethene                | 3.76 | 108 | 485987  | 10.736 | ppbv 97    |
| 15) Acetone                    | 3.86 | 43  | 1124444 | 9.580  | ppbv 98    |
| 16) 1,3-Butadiene              | 3.35 | 39  | 659085  | 9.822  | ppbv 100   |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 865775  | 8.226  | ppbv 100   |
| 18) 1,1-Dichloroethene         | 4.31 | 96  | 510147  | 10.873 | ppbv 95    |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 589710  | 9.830  | ppbv # 100 |
| 20) Methylene Chloride         | 4.36 | 84  | 441311  | 10.367 | ppbv 96    |
| 21) Allyl Chloride             | 4.43 | 41  | 873907  | 9.944  | ppbv 99    |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 549302  | 11.563 | ppbv 95    |
| 23) Vinyl Acetate              | 5.09 | 43  | 1209340 | 10.580 | ppbv 99    |
| 24) 1,1-Dichloroethane         | 5.03 | 63  | 1078143 | 10.438 | ppbv 99    |
| 25) Ethyl Acetate              | 5.69 | 43  | 2943556 | 9.884  | ppbv 99    |
| 26) Hexane                     | 5.71 | 57  | 1290133 | 9.517  | ppbv 99    |
| 27) Carbon Disulfide           | 4.57 | 76  | 1350099 | 10.860 | ppbv 98    |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 1028891 | 9.827  | ppbv 98    |
| 29) Chloroform                 | 5.77 | 83  | 2001496 | 10.553 | ppbv 97    |
| 30) Cyclohexane                | 7.15 | 84  | 1106928 | 9.265  | ppbv 97    |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1293463 | 10.377 | ppbv 98    |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97  | 1956687 | 10.239 | ppbv 99    |
| 34) 2-Butanone                 | 5.26 | 43  | 1782778 | 14.583 | ppbv 97    |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 1987437 | 10.715 | ppbv 99    |
| 36) Benzene                    | 6.91 | 78  | 2710050 | 9.629  | ppbv 99    |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 1479422 | 11.497 | ppbv 98    |
| 38) Trichloroethene            | 7.85 | 130 | 1097009 | 9.499  | ppbv 94    |
| 39) 1,2-Dichloropropane        | 7.63 | 63  | 1052863 | 9.780  | ppbv 96    |
| 40) 1,4-Dioxane                | 7.85 | 88  | 393023  | 10.751 | ppbv # 14  |
| 41) Tetrahydrofuran            | 6.06 | 42  | 1144950 | 9.861  | ppbv 100   |
| 42) Bromodichloromethane       | 7.81 | 83  | 2215361 | 10.902 | ppbv 98    |
| 43) Methyl Methacrylate        | 8.03 | 69  | 1143026 | 10.603 | ppbv 99    |

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 Data File : VL038945.D  
 Acq On : 19 Apr 2022 11:58  
 Operator : SY/AP  
 Sample : VL0419ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

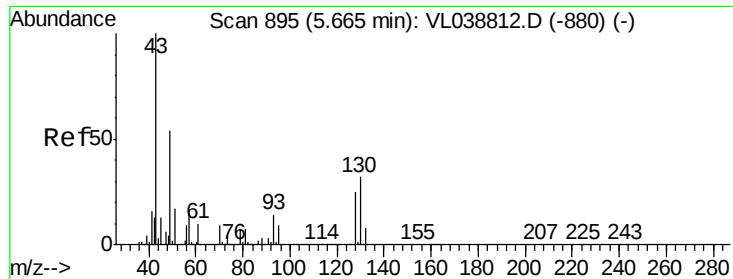
Instrument :  
 MSVOA L  
 ClientSampleId :  
 VL0419ABS01

Quant Time: Apr 20 04:23:51 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 4540584  | 9.529  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1254305  | 11.128 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1535348  | 10.331 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1101616  | 9.987  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.32 | 129  | 1834872  | 10.613 | ppbv   | 99       |
| 49) Bromoform                 | 13.06 | 173  | 1510960  | 11.034 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2849756  | 10.363 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 2196697  | 10.602 | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.24 | 164  | 920957   | 9.368  | ppbv   | 97       |
| 53) Toluene                   | 9.82  | 91   | 3190130  | 9.819  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1608962  | 10.501 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 746514   | 4.624  | ppbv # | 37       |
| 57) Chlorobenzene             | 12.16 | 112  | 2266973  | 7.514  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.73 | 91   | 4273027  | 7.763  | ppbv   | 97       |
| 59) m/p-Xylene                | 13.01 | 91   | 3855191  | 8.336  | ppbv # | 49       |
| 60) o-Xylene                  | 13.71 | 91   | 3354143  | 7.751  | ppbv   | 94       |
| 61) Styrene                   | 13.55 | 104  | 2079731  | 7.888  | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 4871161  | 7.499  | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 2076527  | 7.576  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.58 | 120  | 1246156  | 7.389  | ppbv   | 87       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 4130822  | 7.168  | ppbv   | 95       |
| 66) Benzyl Chloride           | 17.00 | 91   | 799013   | 6.810  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 6016132  | 7.440  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 4912336  | 7.398  | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.56 | 91   | 5365106  | 8.021  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 3820818  | 7.823  | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 3973156  | 7.689  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 3612245  | 7.782  | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 3751778  | 7.646  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2150759  | 7.549  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2135659  | 7.610  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 2099294  | 7.475  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1524186  | 6.868  | ppbv   | 99       |
| 79) Naphthalene               | 22.21 | 128  | 2958938  | 8.061  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 593033   | 6.556  | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 1635508  | 7.613  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VL0419ABS01

Acq: 19 Apr 2022 11:58

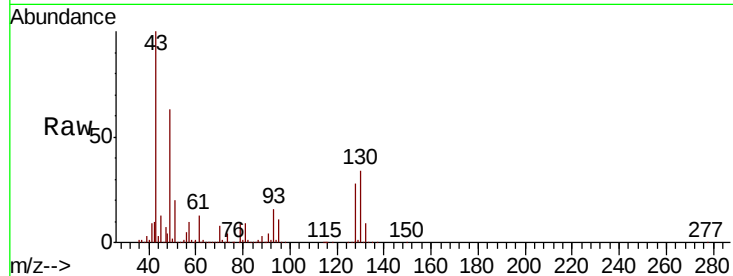
Tot Ion: 49 Resp: 1178929

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 47.4  | 24.1  | 72.3  |
| 130 | 59.7  | 30.9  | 92.8  |

49 100

128 47.4 24.1 72.3

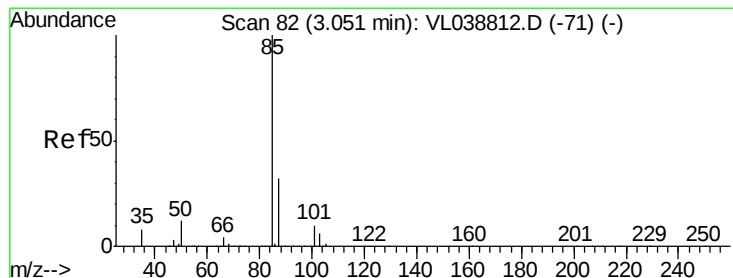
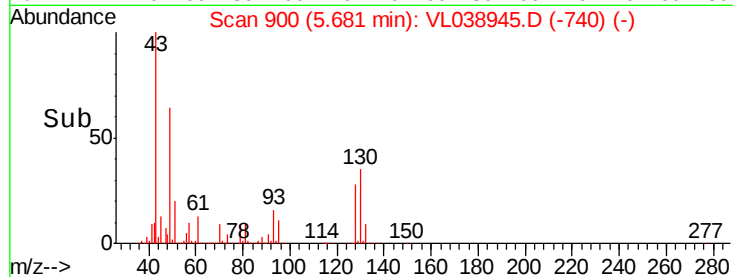
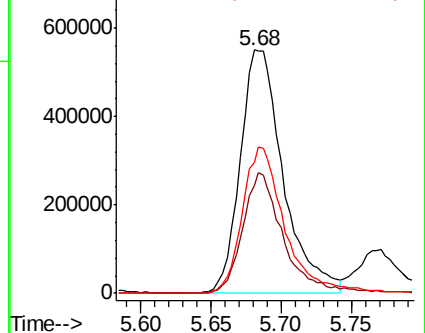
130 59.7 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 13.842 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL038945.D

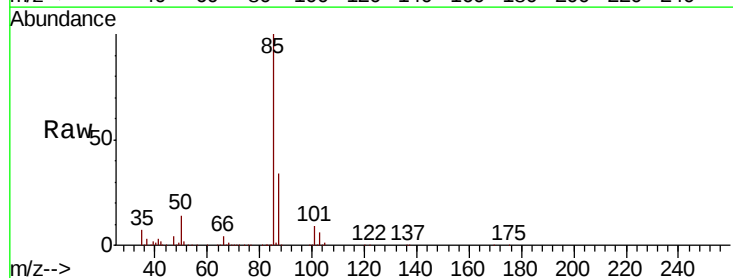
Acq: 19 Apr 2022 11:58

Tgt Ion: 85 Resp: 2314632

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 33.4  | 25.9  | 38.9  |

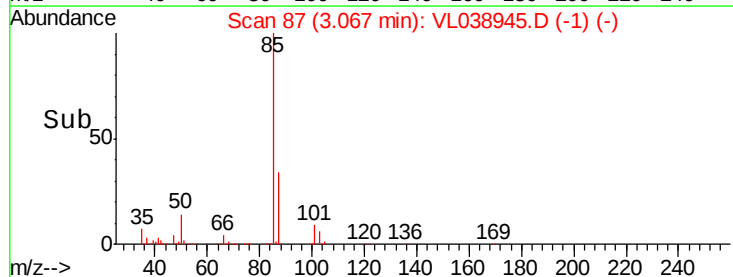
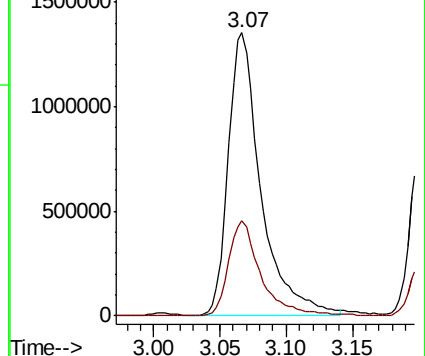
85 100

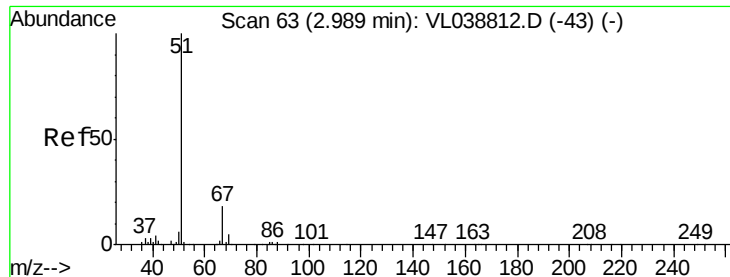
87 33.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.767 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

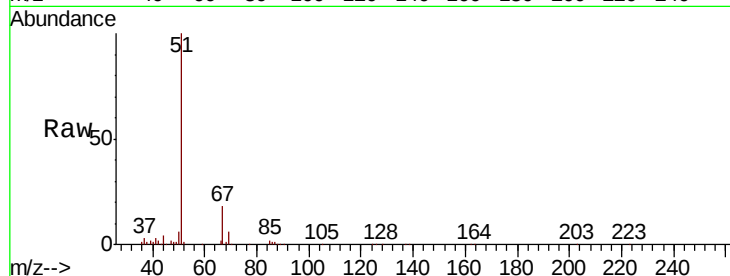
Acq: 19 Apr 2022 11:58 VL0419ABS01

Tot Ion: 51 Resp: 1405221

Ion Ratio Lower Upper

51 100

67 18.1 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

800000

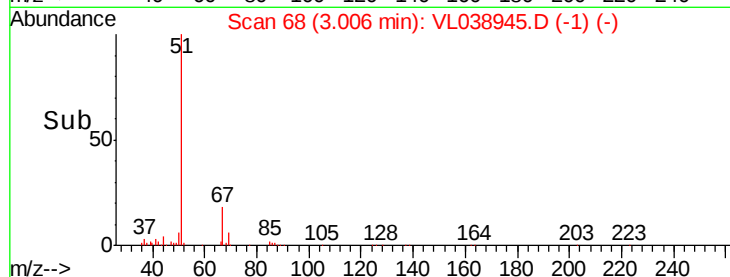
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400000

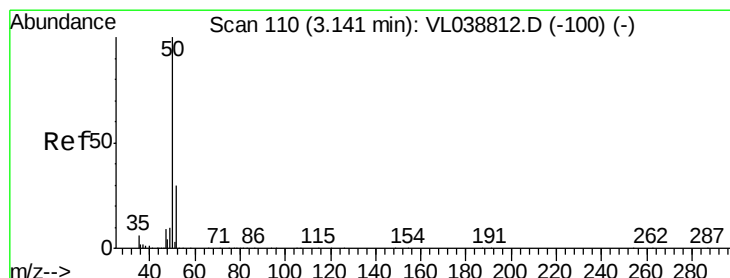
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 9.525 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL038945.D

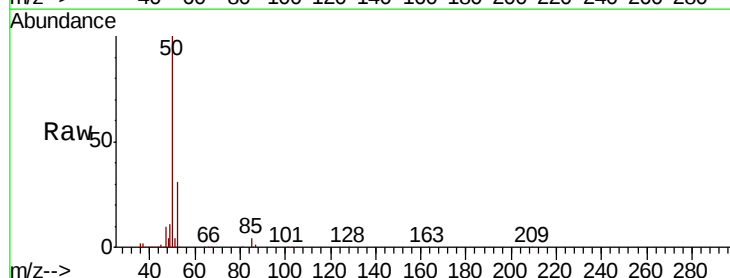
Acq: 19 Apr 2022 11:58

Tgt Ion: 50 Resp: 709615

Ion Ratio Lower Upper

50 100

52 31.3 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

400000

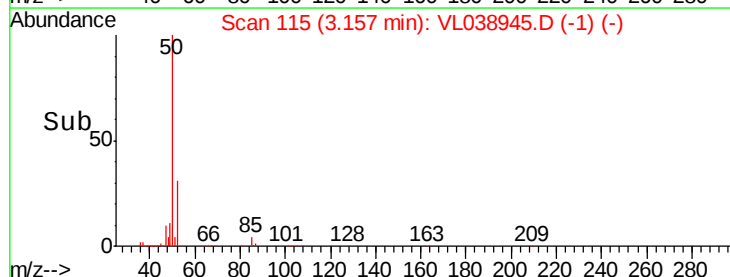
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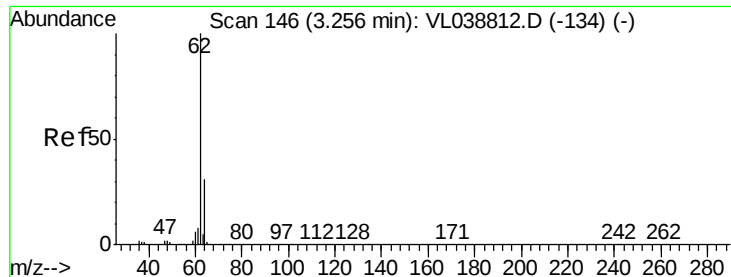
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 10.037 ppbv

RT: 3.28 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

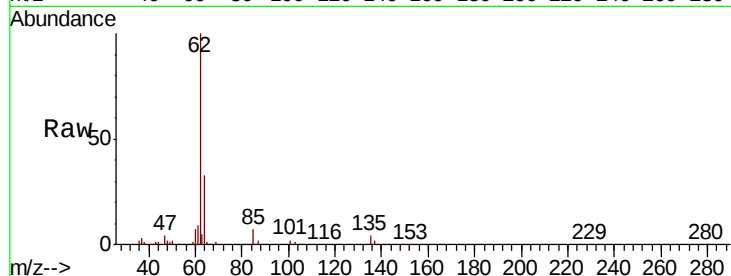
Acq: 19 Apr 2022 11:58

Tot Ion: 62 Resp: 690973

Ion Ratio Lower Upper

62 100

64 32.9 24.6 37.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.28

400000

300000

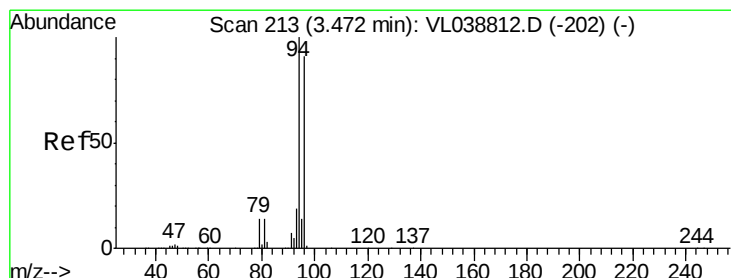
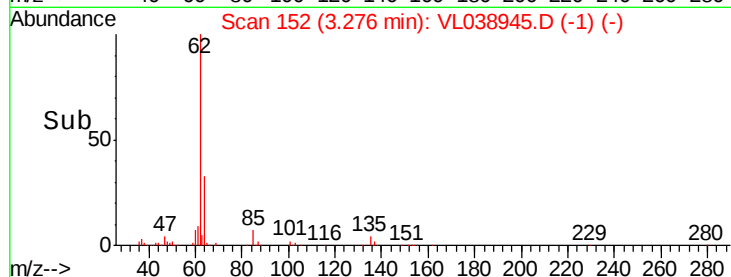
200000

100000

0

Time-->

3.20 3.25 3.30 3.35



#6

Bromomethane

Concen: 10.638 ppbv

RT: 3.49 min Scan# 219

Delta R.T. 0.02 min

Lab File: VL038945.D

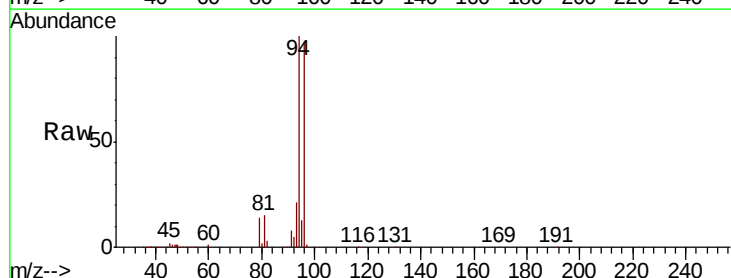
Acq: 19 Apr 2022 11:58

Tgt Ion: 94 Resp: 354322

Ion Ratio Lower Upper

94 100

96 96.5 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

200000

150000

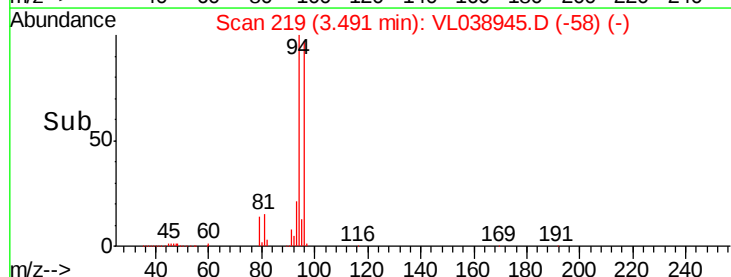
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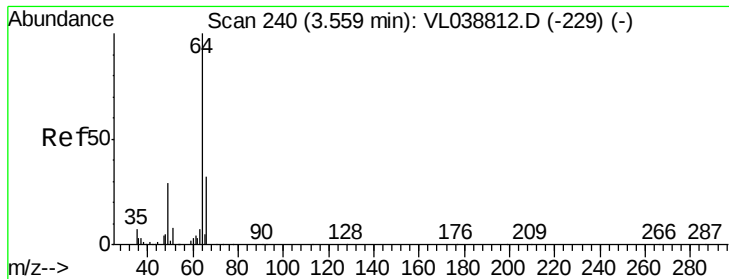
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0

Time-->

3.45 3.50 3.55





#7

Chloroethane

Concen: 10.520 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

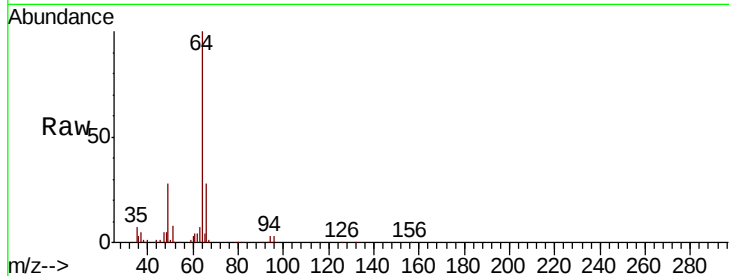
Acq: 19 Apr 2022 11:58 VL0419ABS01

Tot Ion: 64 Resp: 241499

Ion Ratio Lower Upper

64 100

66 28.2 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

100000

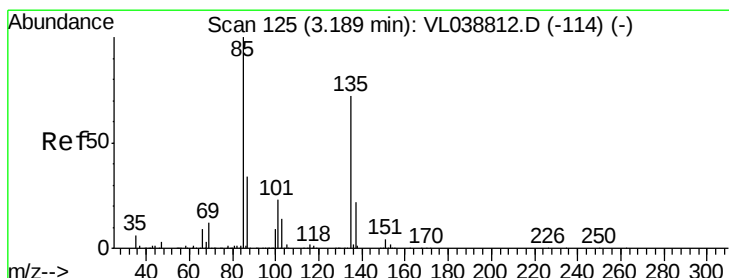
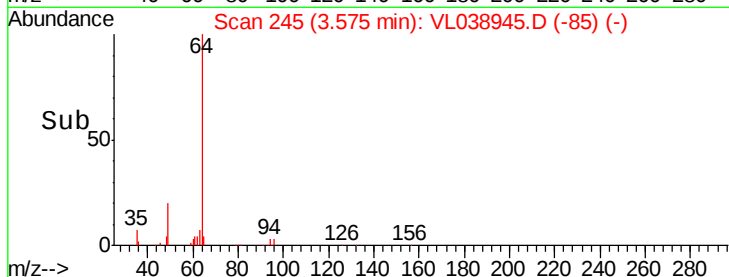
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0

3.57

3.50 3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.298 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.02 min

Lab File: VL038945.D

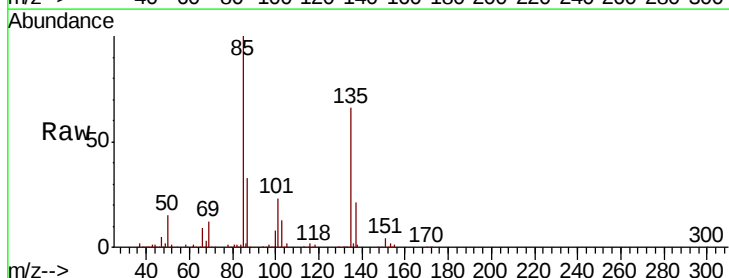
Acq: 19 Apr 2022 11:58

Tgt Ion: 85 Resp: 1608622

Ion Ratio Lower Upper

85 100

135 69.7 57.0 85.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

400000

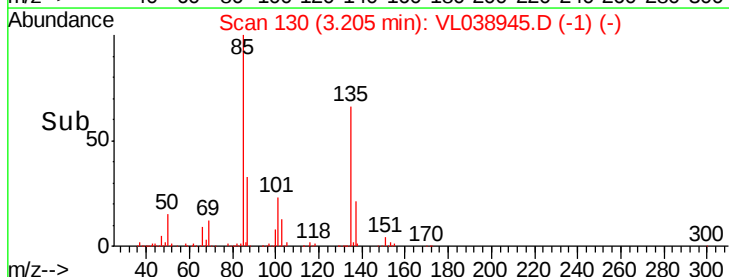
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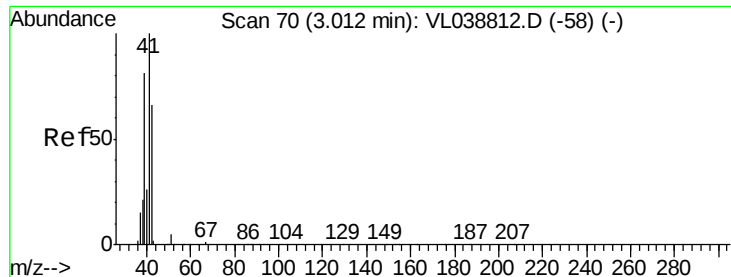
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3.20

3.15 3.20 3.25 3.30

Time-->





#9

Propene

Concen: 9.176 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

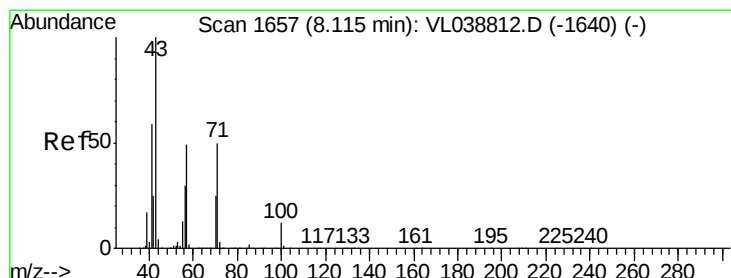
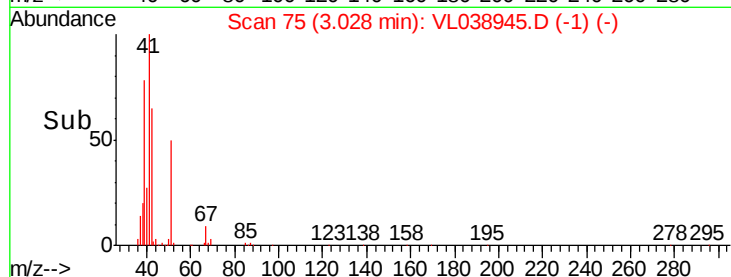
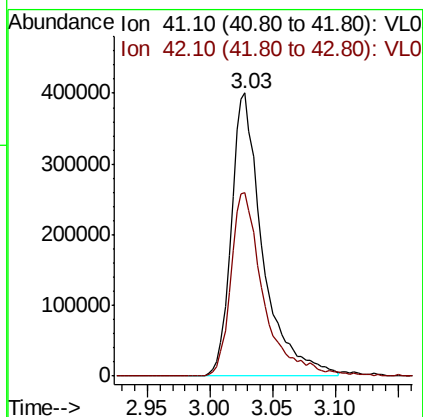
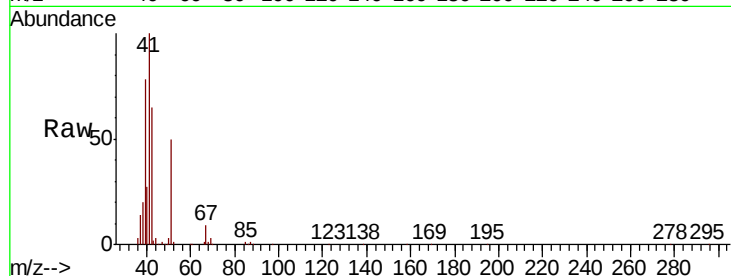
Acq: 19 Apr 2022 11:58 VL0419ABS01

Tot Ion: 41 Resp: 698544

Ion Ratio Lower Upper

41 100

42 67.9 54.2 81.4



#10

Heptane

Concen: 9.083 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.03 min

Lab File: VL038945.D

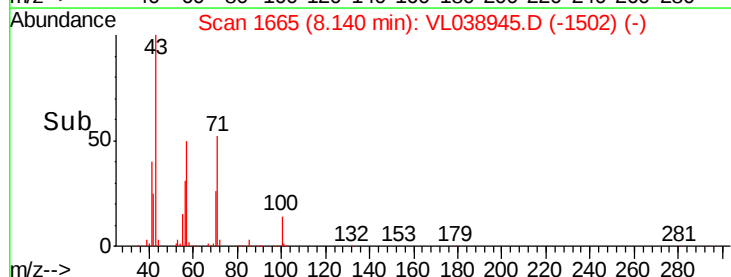
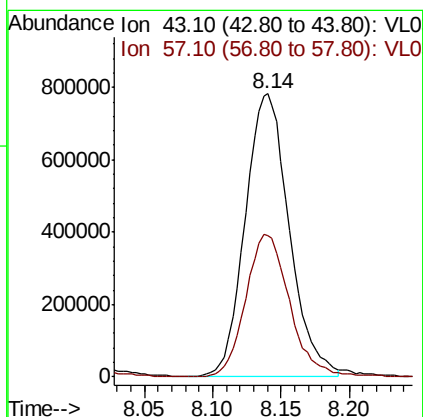
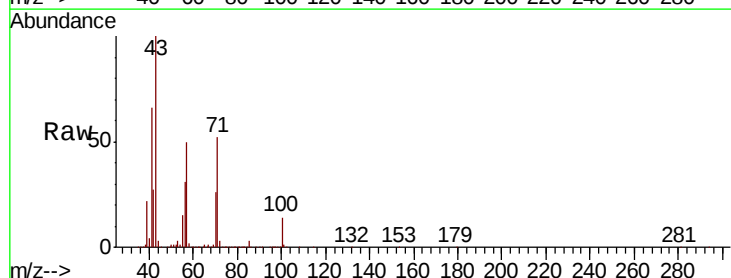
Acq: 19 Apr 2022 11:58

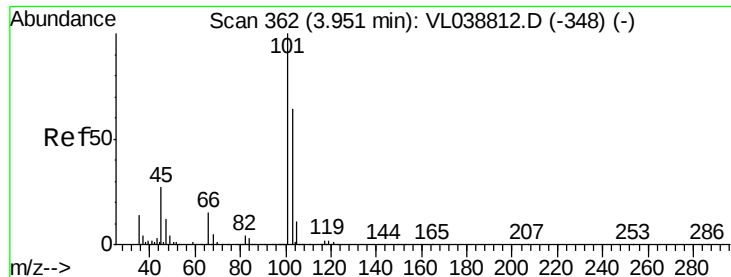
Tgt Ion: 43 Resp: 1741587

Ion Ratio Lower Upper

43 100

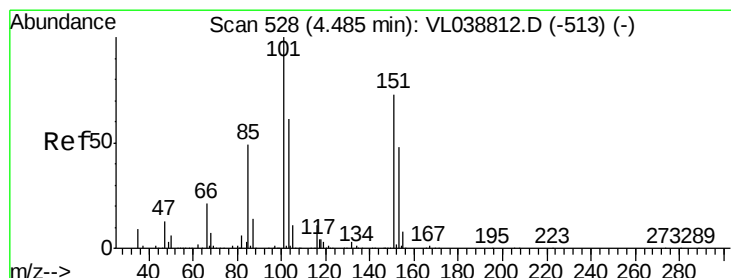
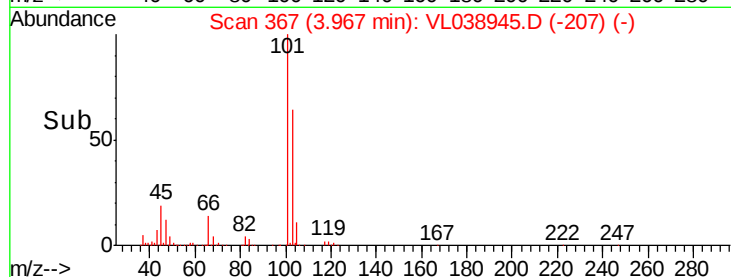
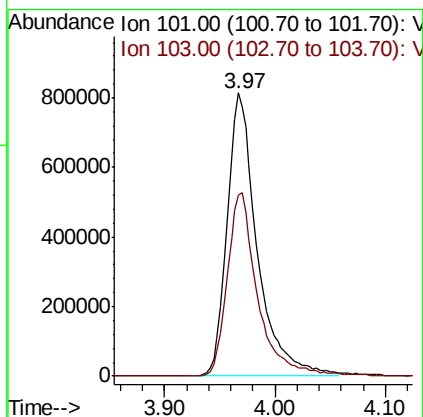
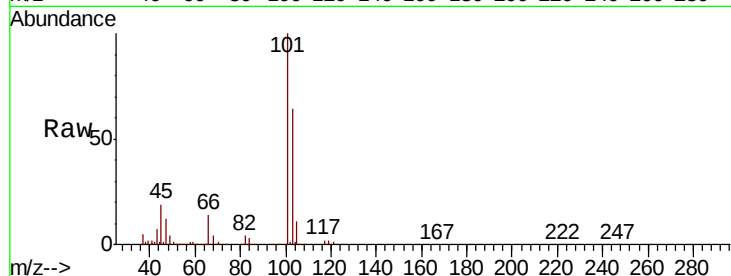
57 51.0 39.3 58.9





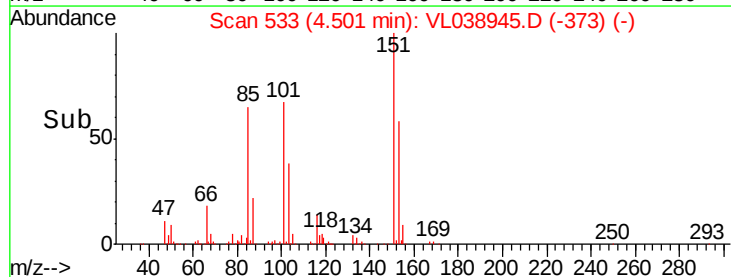
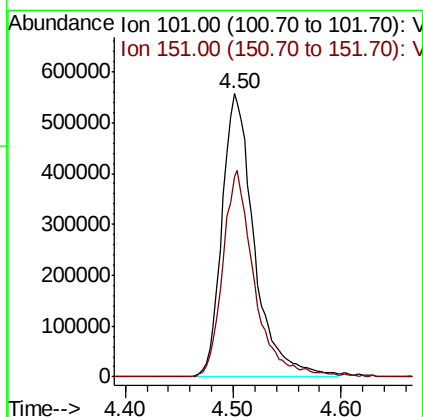
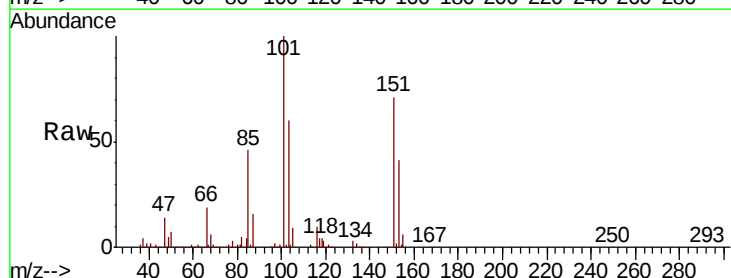
#11  
 Trichlorofluoromethane  
 Concen: 11.474 ppbv  
 RT: 3.97  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId : VL0419ABS01  
 Acq: 19 Apr 2022 11:58

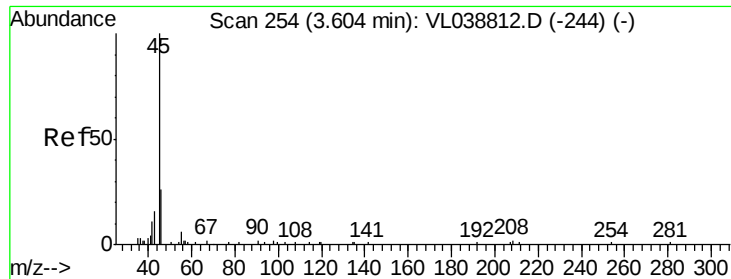
Tot Ion:101 Resp: 1541807  
 Ion Ratio Lower Upper  
 101 100  
 103 63.9 51.4 77.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 11.235 ppbv  
 RT: 4.50 min Scan# 533  
 Delta R.T.: 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

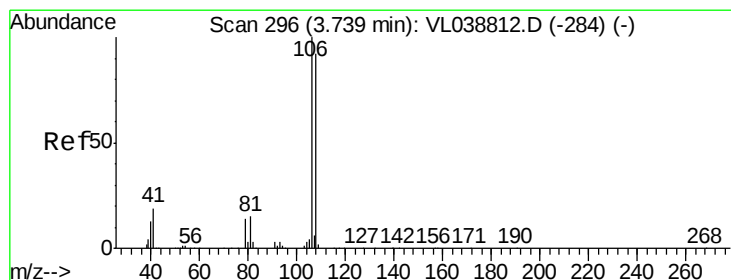
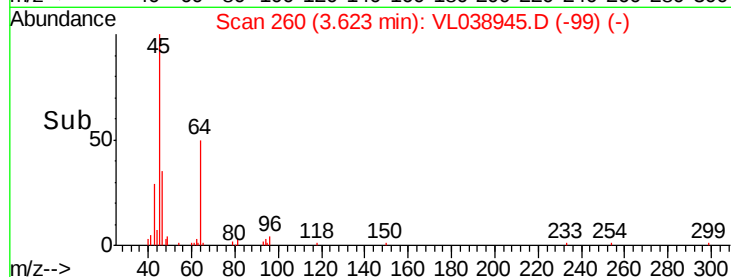
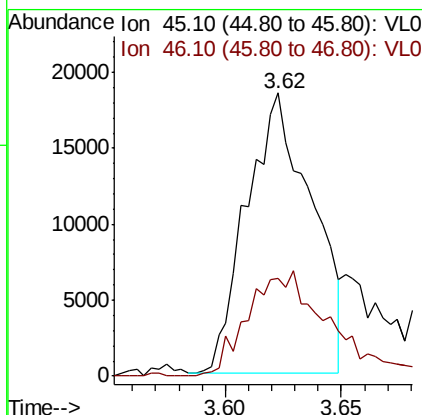
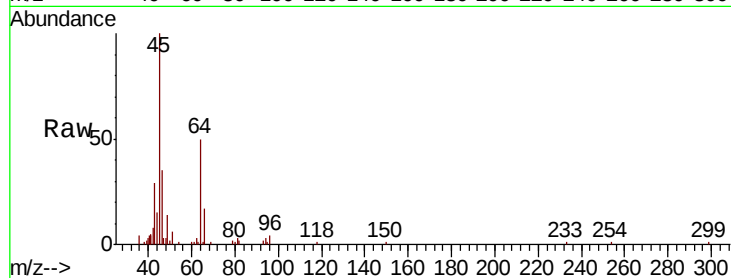
Tgt Ion:101 Resp: 1156396  
 Ion Ratio Lower Upper  
 101 100  
 151 71.9 59.9 89.9





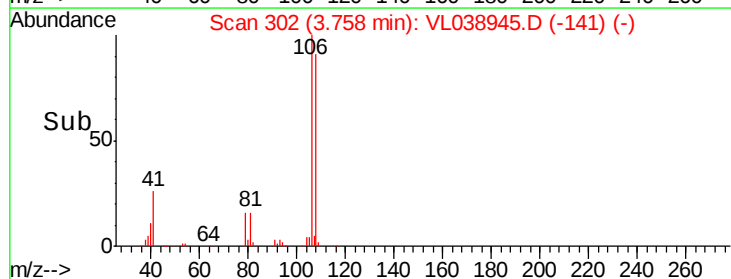
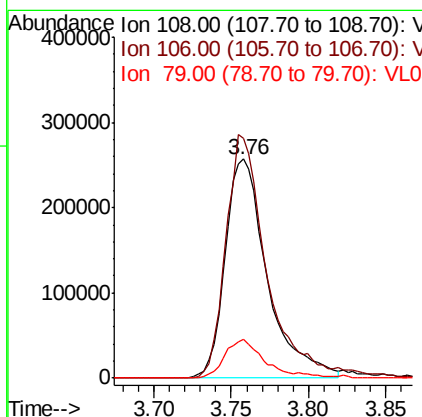
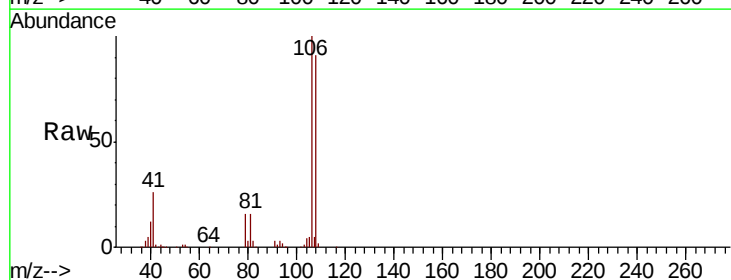
#13  
 Ethanol  
 Concen: 7.817 ppbv  
 RT: 3.62  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0419ABS01  
 Acq: 19 Apr 2022 11:58

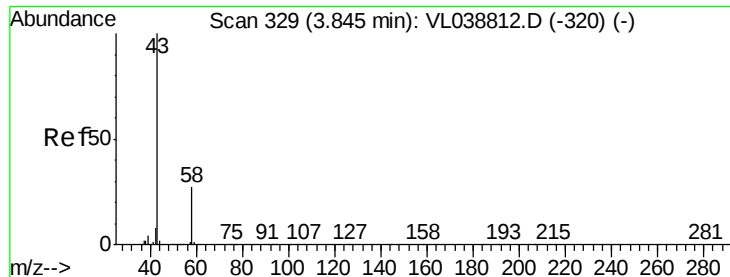
Tot Ion: 45 Resp: 36160  
 Ion Ratio Lower Upper  
 45 100  
 46 46.1 0.0 0.0#



#14  
 Bromoethene  
 Concen: 10.736 ppbv  
 RT: 3.76 min Scan# 302  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

Tgt Ion: 108 Resp: 485987  
 Ion Ratio Lower Upper  
 108 100  
 106 110.4 91.5 137.3  
 79 17.4 13.7 20.5





#15

Acetone

Concen: 9.580 ppbv

RT: 3.86

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

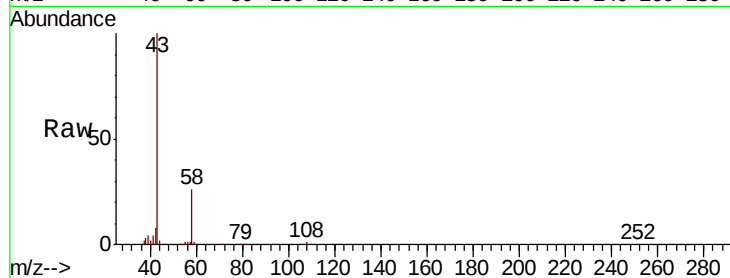
Acq: 19 Apr 2022 11:58

Tot Ion: 43 Resp: 1124444

Ion Ratio Lower Upper

43 100

58 27.0 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

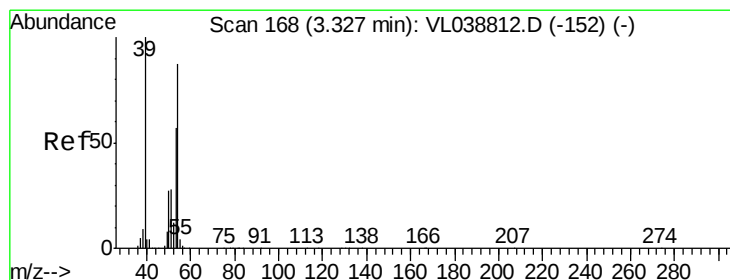
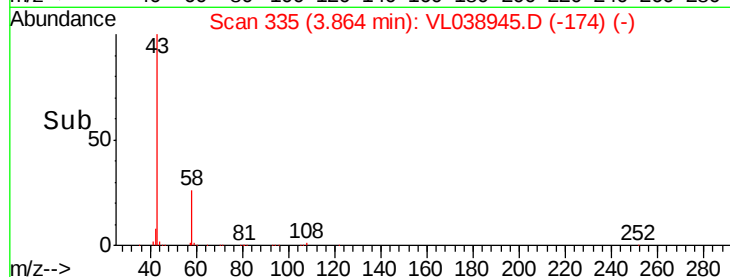
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.822 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.02 min

Lab File: VL038945.D

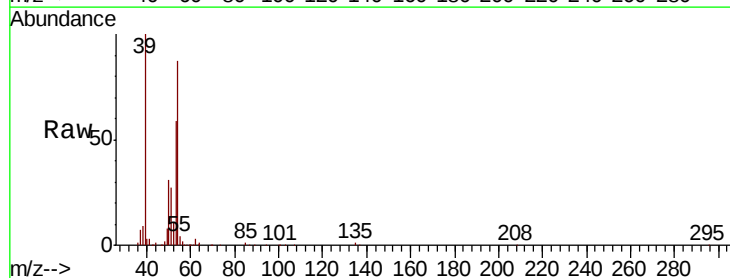
Acq: 19 Apr 2022 11:58

Tgt Ion: 39 Resp: 659085

Ion Ratio Lower Upper

39 100

54 80.6 64.8 97.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

400000

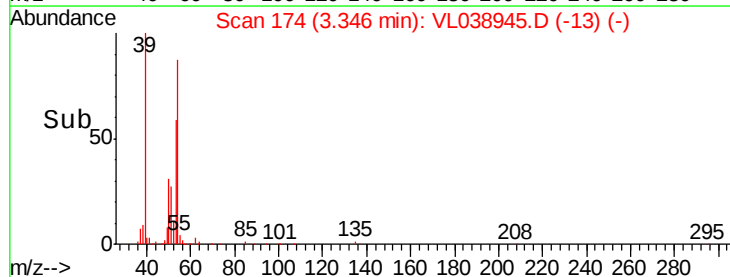
300000

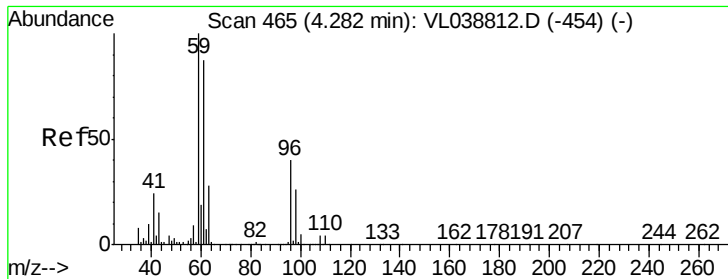
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 8.226 ppbv

RT: 4.30 Instrument: MSVOA\_1

Delta R.T. 0.02 min

Lab File: VL0419ABS01

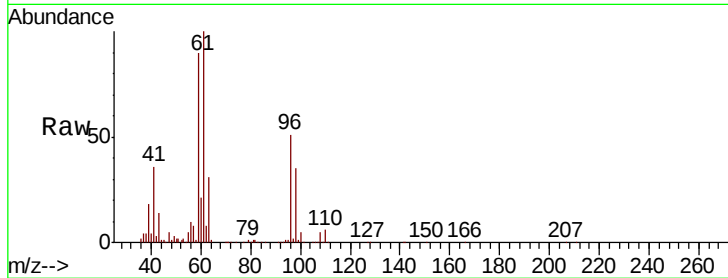
Acq: 19 Apr 2022 11:58

Tot Ion: 59 Resp: 865775

Ion Ratio Lower Upper

59 100

57 10.6 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

400000

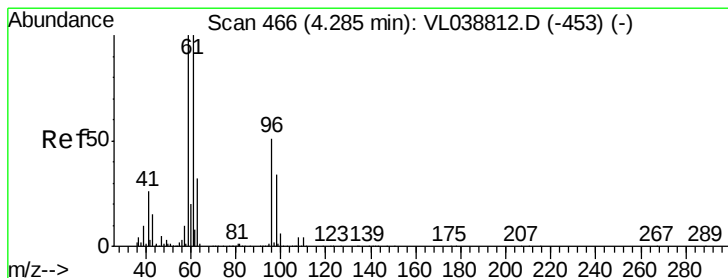
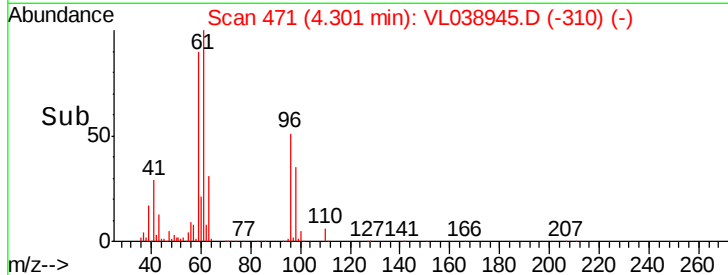
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.873 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

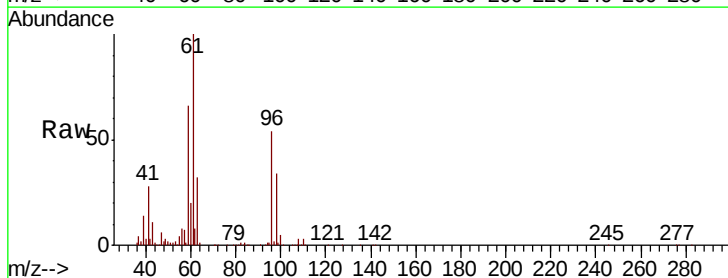
Tgt Ion: 96 Resp: 510147

Ion Ratio Lower Upper

96 100

61 186.6 156.1 234.1

98 63.8 53.0 79.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

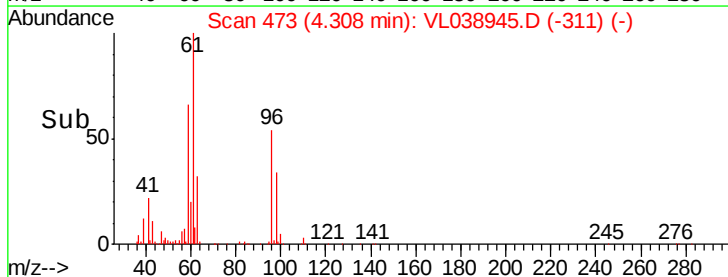
600000

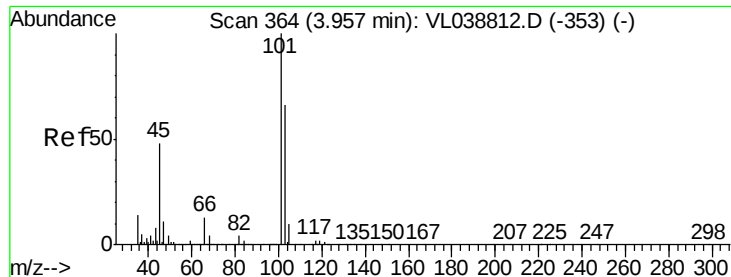
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.830 ppbv

RT: 3.98 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

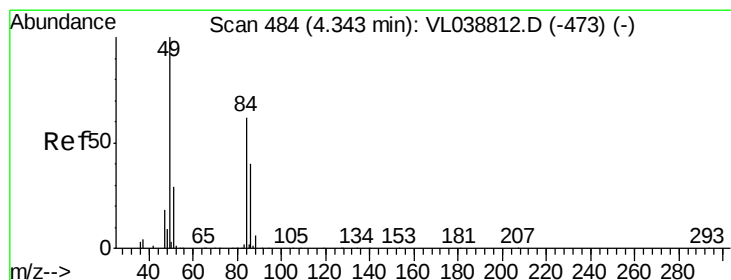
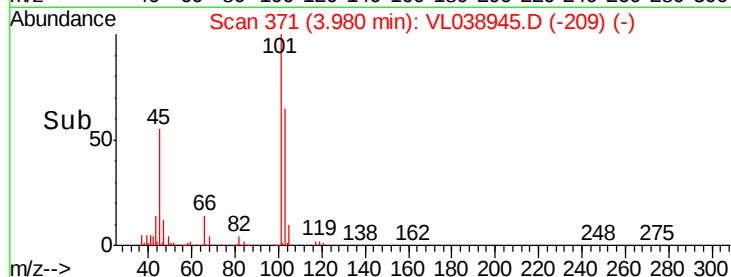
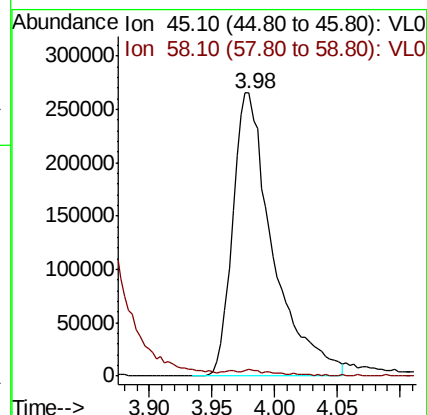
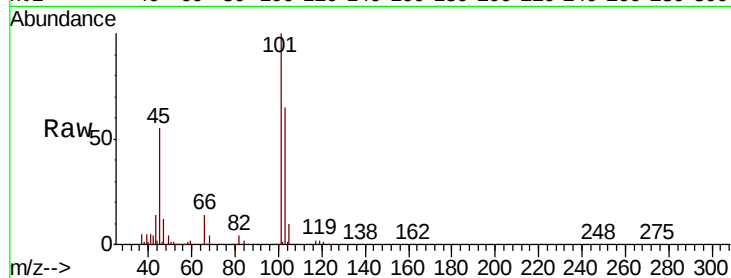
Acq: 19 Apr 2022 11:58

Tot Ion: 45 Resp: 589710

Ion Ratio Lower Upper

45 100

58 2.6 0.0 0.0#



#20

Methylene Chloride

Concen: 10.367 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

Tgt Ion: 84 Resp: 441311

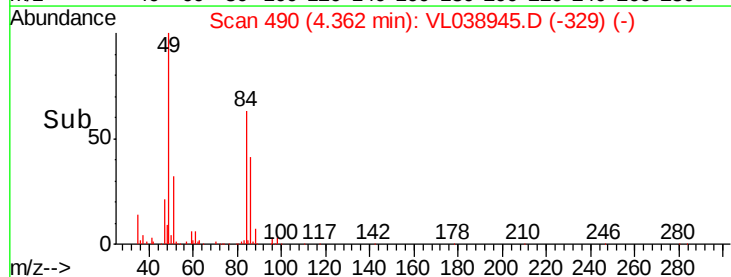
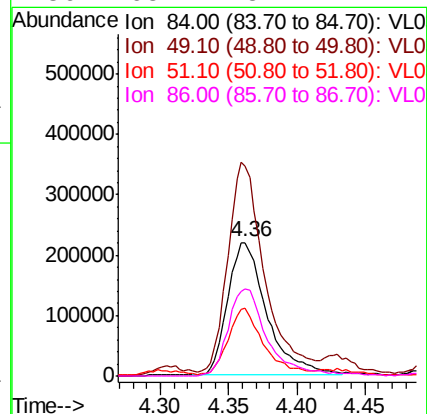
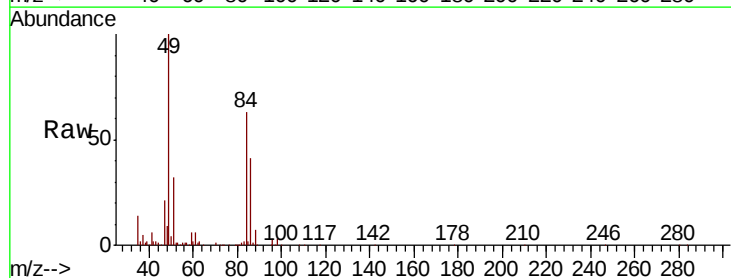
Ion Ratio Lower Upper

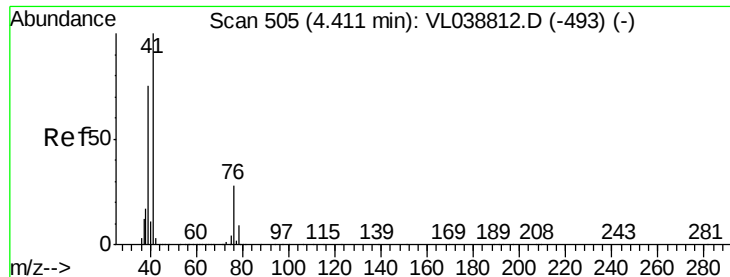
84 100

49 155.1 129.4 194.0

51 50.0 37.4 56.2

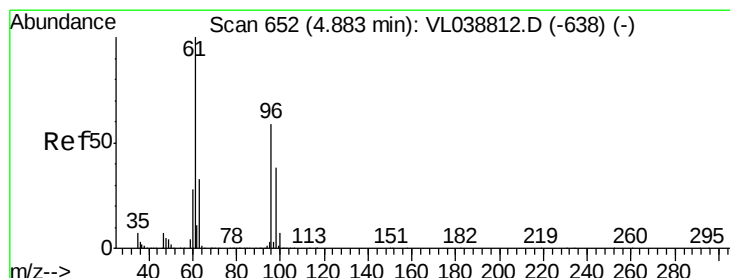
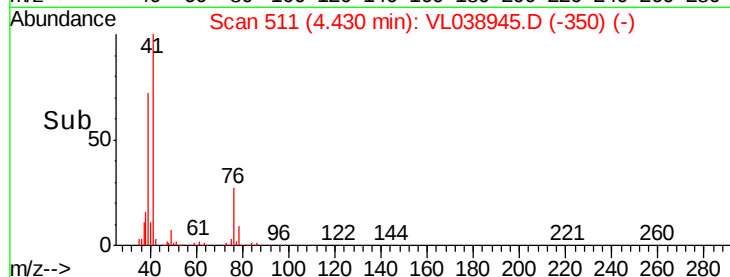
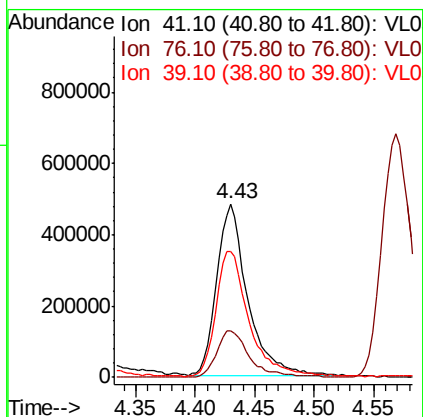
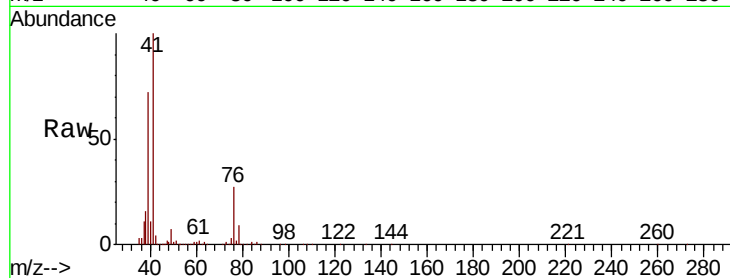
86 65.1 51.4 77.2





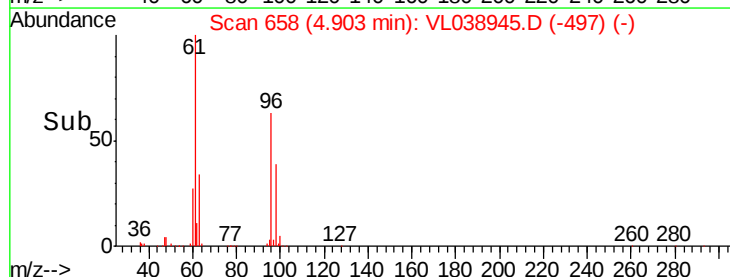
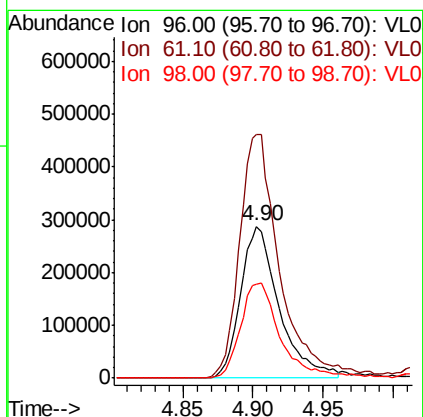
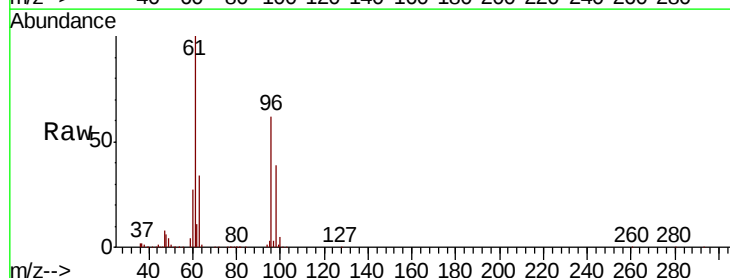
#21  
 Allvl Chloride  
 Concen: 9.944 ppbv  
 RT: 4.43  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0419ABS01  
 Acq: 19 Apr 2022 11:58

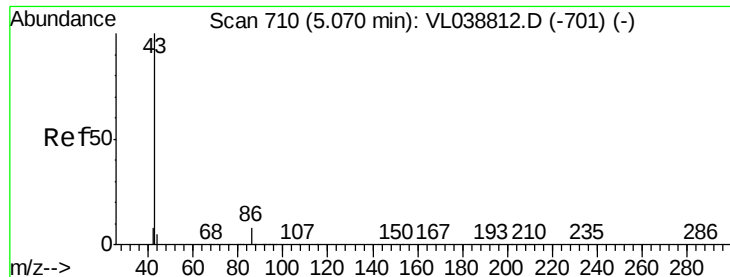
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 873907 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 28.9  | 23.7  | 35.5   |
| 39       | 77.1  | 62.0  | 93.0   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 11.563 ppbv  
 RT: 4.90 min Scan# 658  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 549302 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 160.6 | 134.8 | 202.2  |
| 98       | 62.1  | 51.9  | 77.9   |





#23

Vinyl Acetate

Concen: 10.580 ppbv

RT: 5.09 Instrument: MSVOA\_1

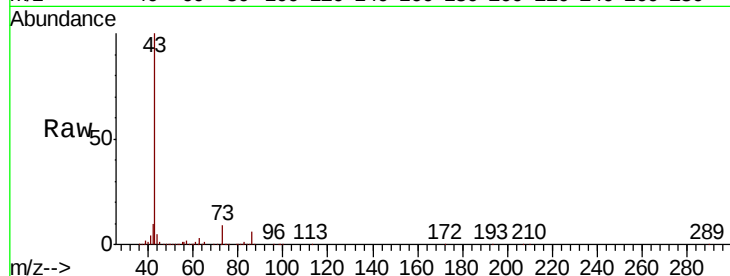
Delta R.T. ClientSampleId:

Lab File: VL0419ABS01

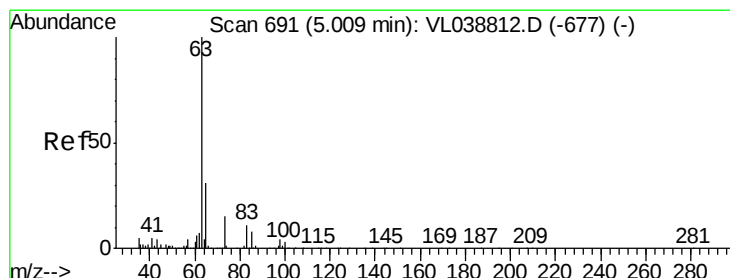
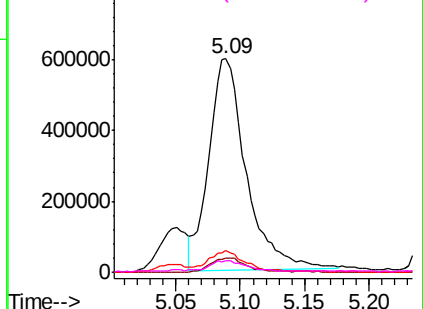
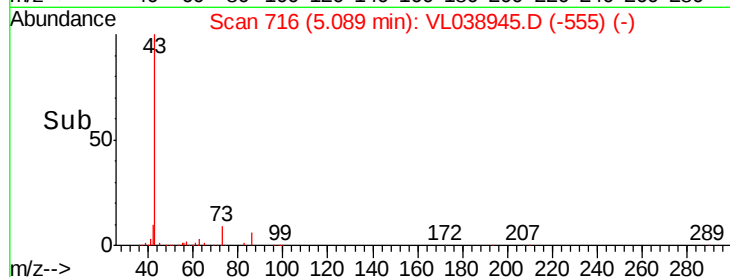
Acq: 19 Apr 2022 11:58

Tot Ion: 43 Resp: 1209340

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.3   | 5.8   | 8.6   |
| 42  | 9.7   | 7.8   | 11.6  |
| 44  | 4.6   | 3.6   | 5.4   |



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



#24

1,1-Dichloroethane

Concen: 10.438 ppbv

RT: 5.03 min Scan# 697

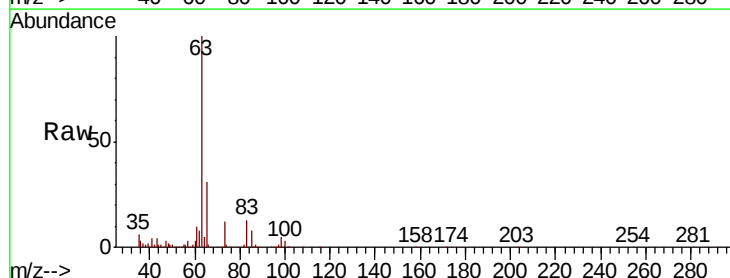
Delta R.T. 0.02 min

Lab File: VL038945.D

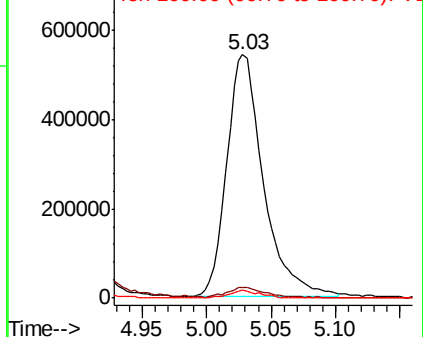
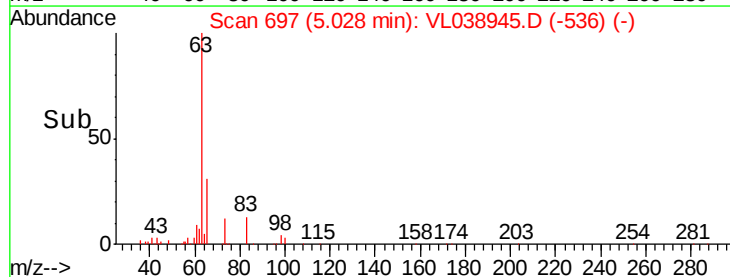
Acq: 19 Apr 2022 11:58

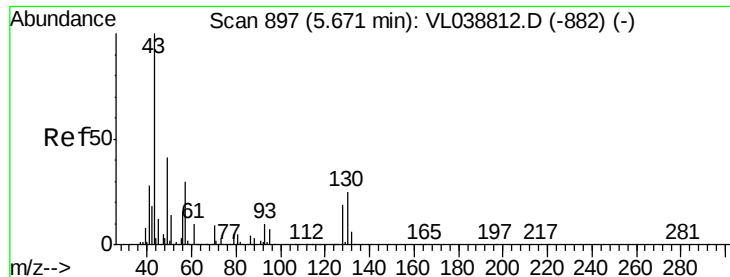
Tgt Ion: 63 Resp: 1078143

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.3   | 2.2   | 6.6   |
| 100 | 3.2   | 1.4   | 4.0   |



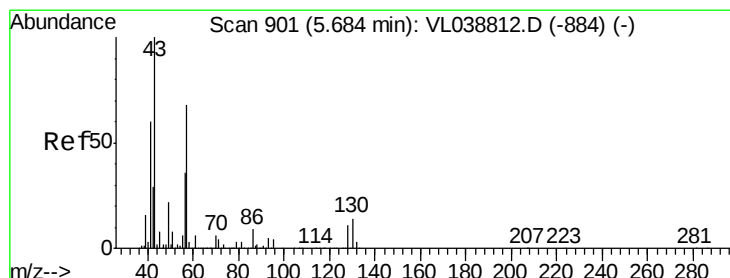
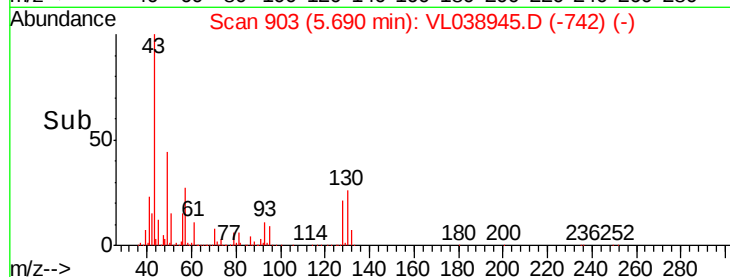
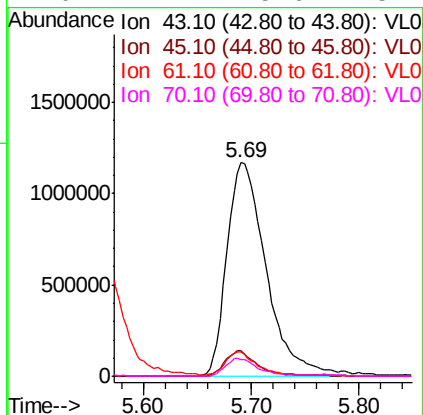
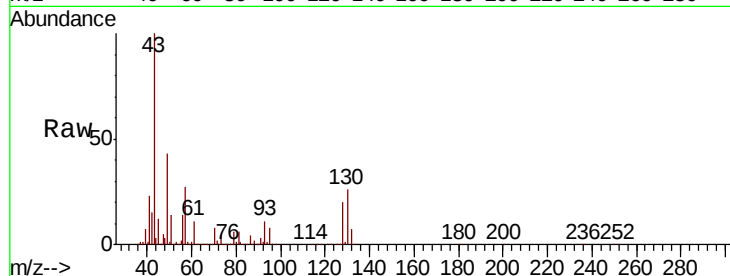
Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





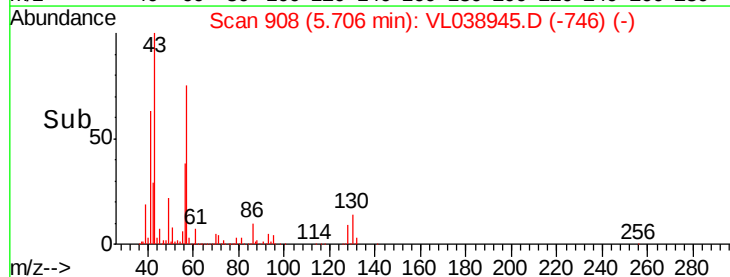
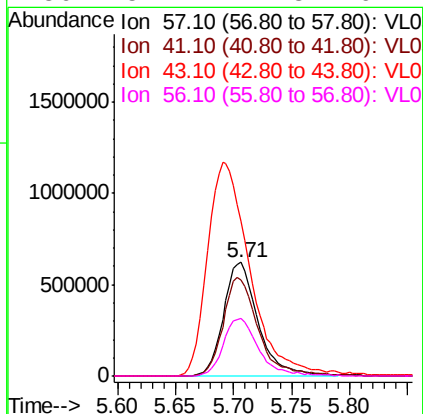
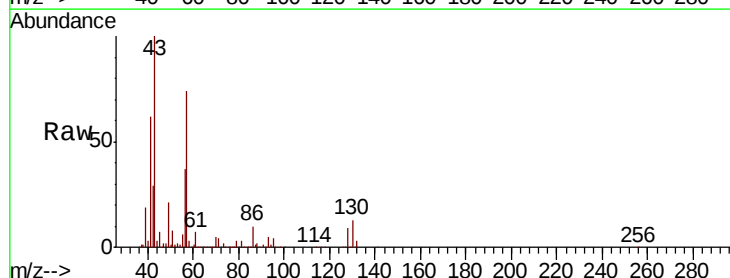
#25  
Ethyl Acetate  
Concen: 9.884 ppbv  
RT: 5.69  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VL0419ABS01  
Acq: 19 Apr 2022 11:58

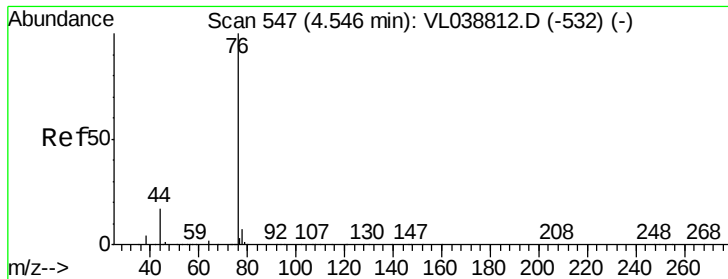
| Tot Ion: | 43    | Resp: | 2943556 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 10.0  | 8.4   | 12.6    |
| 61       | 9.7   | 7.9   | 11.9    |
| 70       | 7.1   | 5.6   | 8.4     |



#26  
Hexane  
Concen: 9.517 ppbv  
RT: 5.71 min Scan# 908  
Delta R.T.: 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

| Tgt Ion: | 57    | Resp: | 1290133 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 88.9  | 72.0  | 108.0   |
| 43       | 233.1 | 186.6 | 280.0   |
| 56       | 52.2  | 42.8  | 64.2    |





#27

Carbon Disulfide

Concen: 10.860 ppbv

RT: 4.57 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 11:58

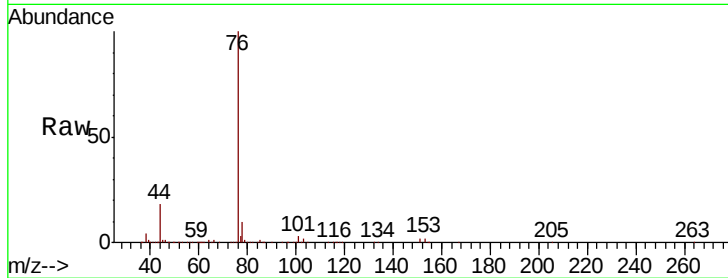
Tot Ion: 76 Resp: 1350099

Ion Ratio Lower Upper

76 100

44 18.5 15.7 23.5

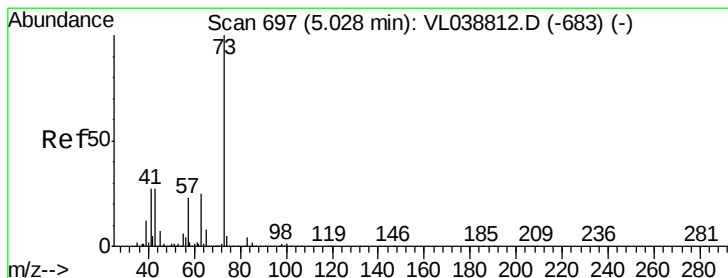
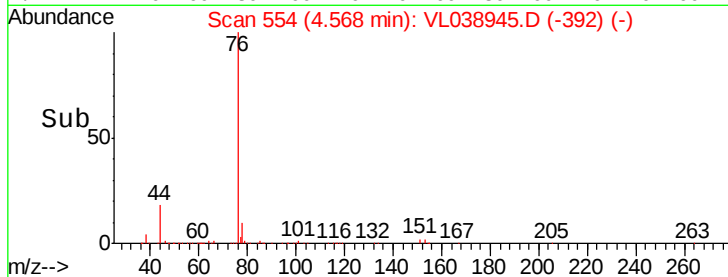
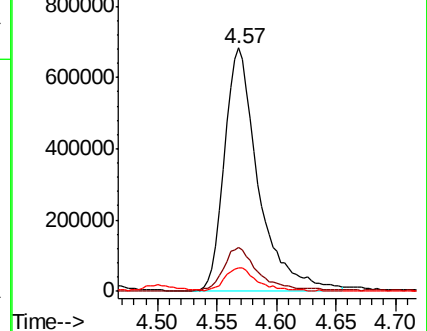
78 9.7 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.827 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.02 min

Lab File: VL038945.D

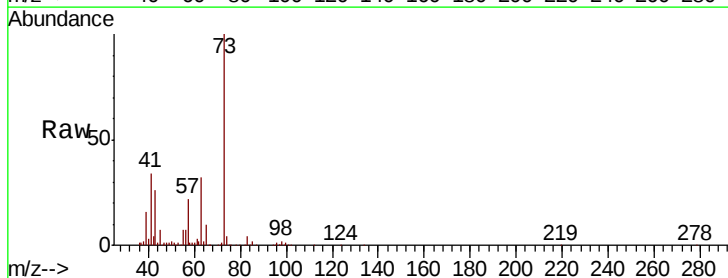
Acq: 19 Apr 2022 11:58

Tgt Ion: 73 Resp: 1028891

Ion Ratio Lower Upper

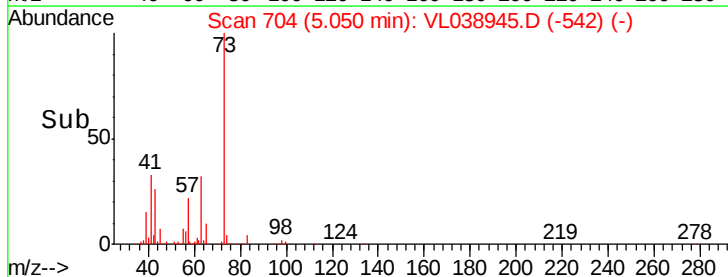
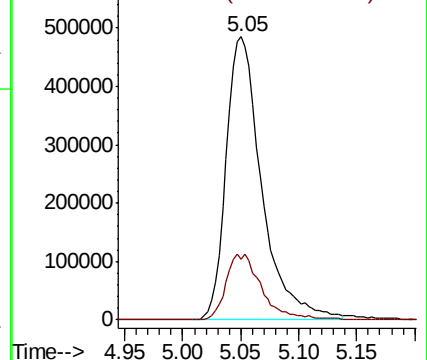
73 100

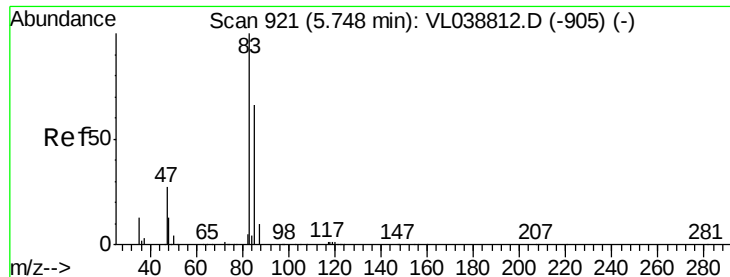
57 23.7 19.7 29.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.553 ppbv

RT: 5.77 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

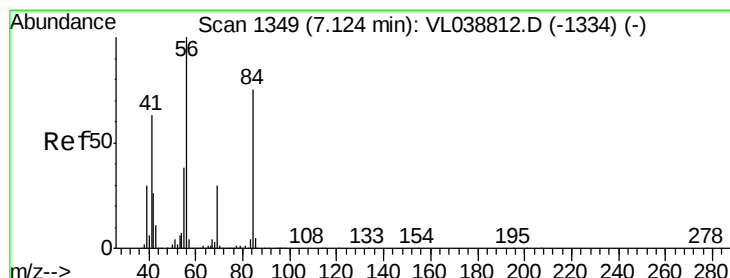
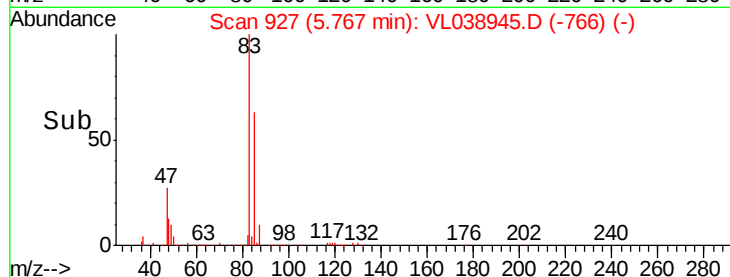
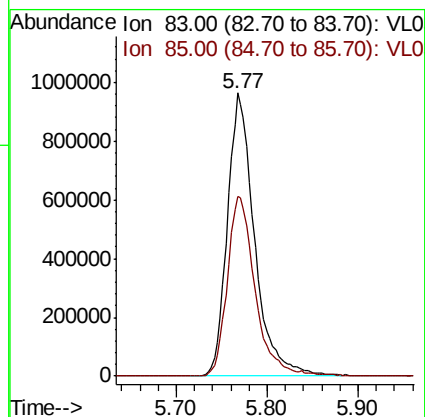
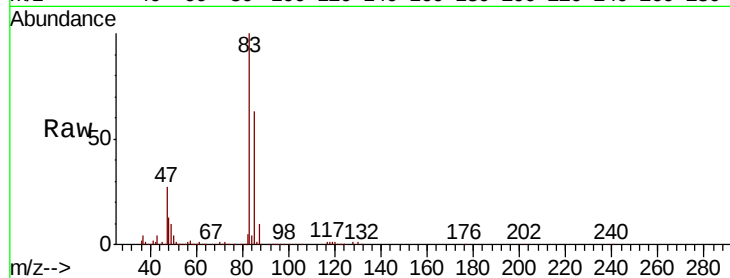
Acq: 19 Apr 2022 11:58 VL0419ABS01

Tot Ion: 83 Resp: 2001496

Ion Ratio Lower Upper

83 100

85 63.2 52.5 78.7



#30

Cyclohexane

Concen: 9.265 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

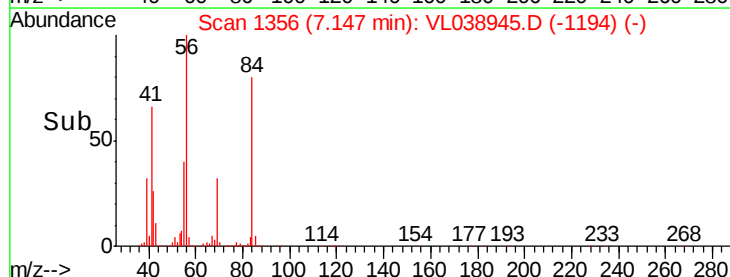
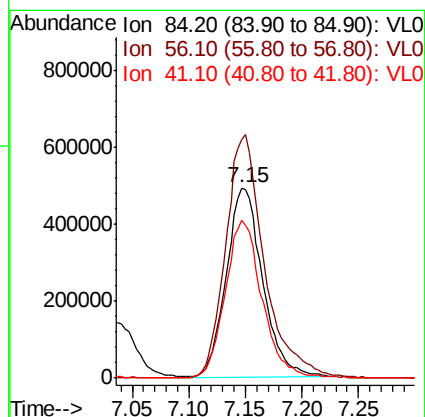
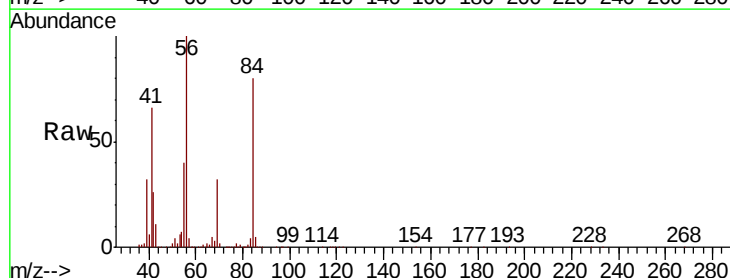
Tgt Ion: 84 Resp: 1106928

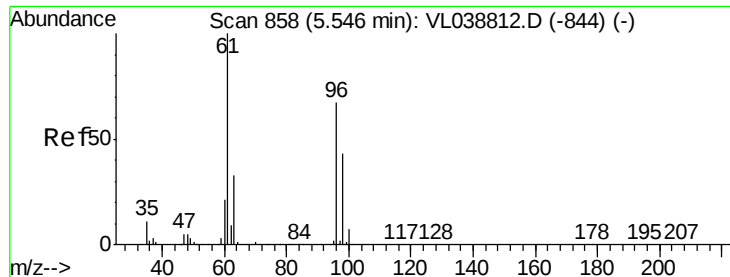
Ion Ratio Lower Upper

84 100

56 137.4 114.4 171.6

41 85.1 69.0 103.4





#31

cis-1,2-Dichloroethene

Concen: 10.377 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 19 Apr 2022 11:58 VL0419ABS01

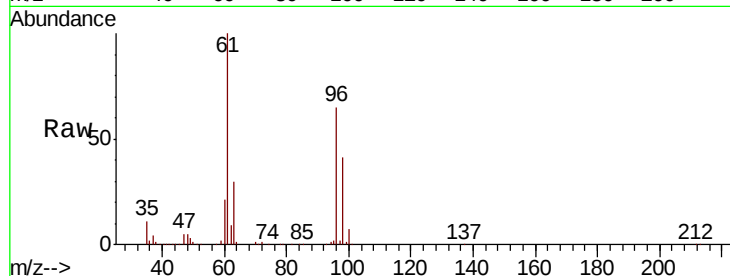
Tot Ion: 61 Resp: 1293463

Ion Ratio Lower Upper

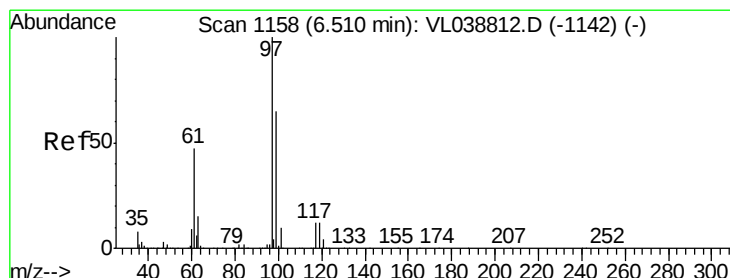
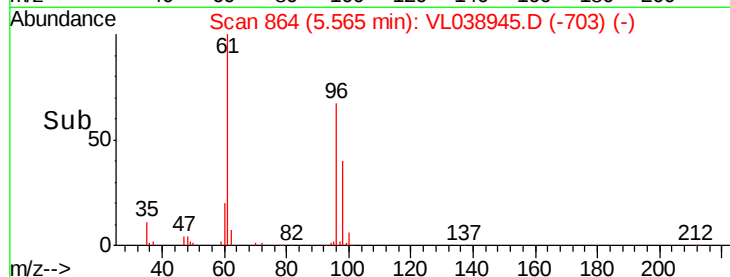
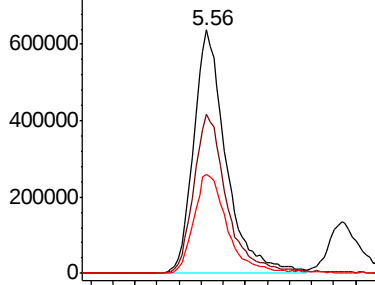
61 100

96 65.5 53.4 80.0

98 40.6 34.2 51.4



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



#32

1,1,1-Trichloroethane

Concen: 10.239 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

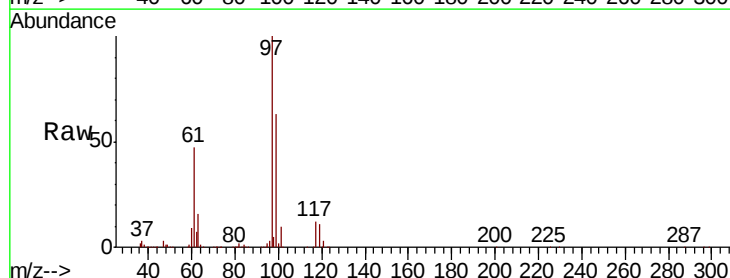
Tgt Ion: 97 Resp: 1956687

Ion Ratio Lower Upper

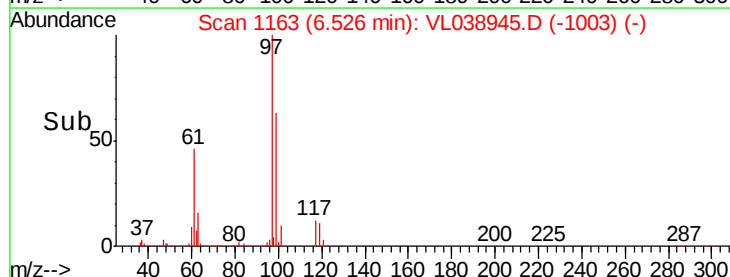
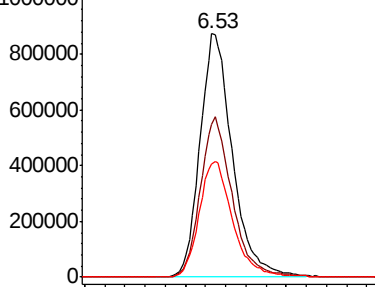
97 100

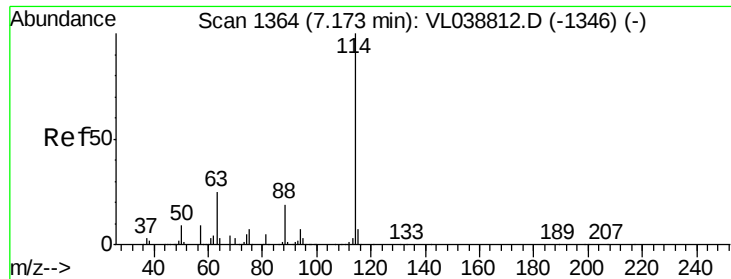
99 64.8 52.4 78.6

61 48.7 38.6 57.8



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20

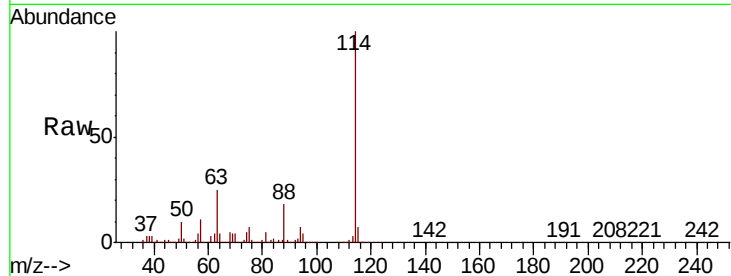
Delta R.T. MSVOA\_L

Lab File: ClientSampleId : VL0419ABS01

Acq: 19 Apr 2022 11:58

Tot Ion:114 Resp: 3093846

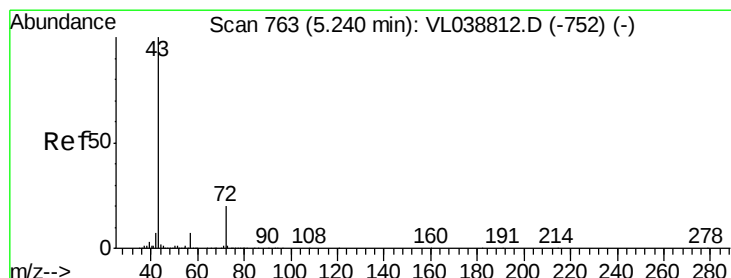
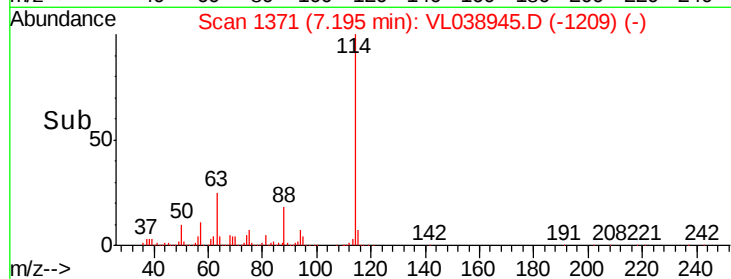
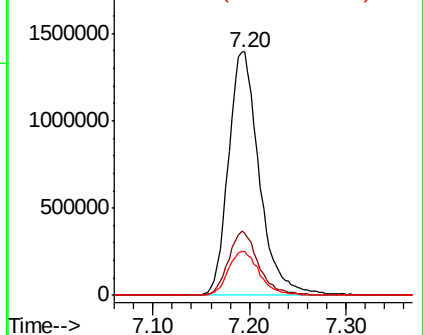
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.9  | 19.8  | 29.8  |
| 88  | 18.4  | 14.2  | 21.4  |



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 14.583 ppbv

RT: 5.26 min Scan# 769

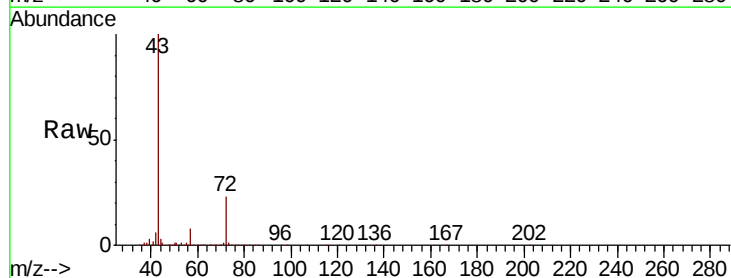
Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

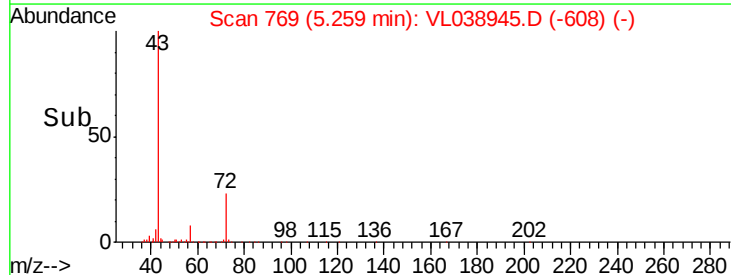
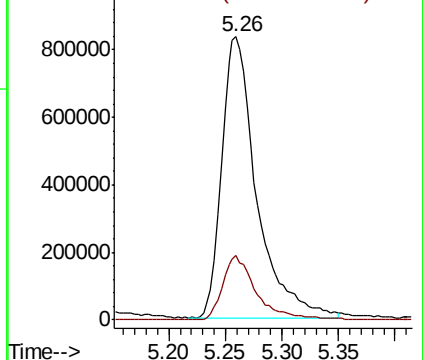
Tgt Ion: 43 Resp: 1782778

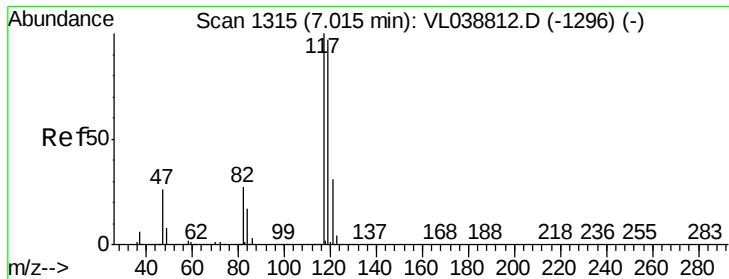
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.4  | 16.9  | 25.3  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

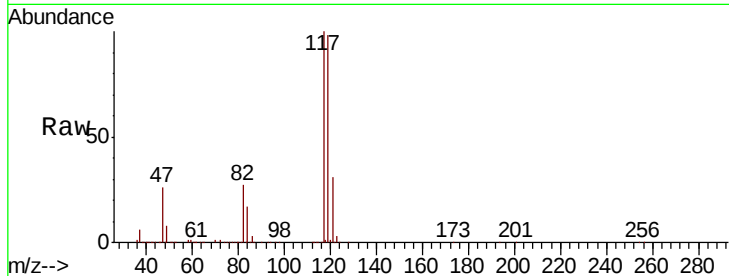




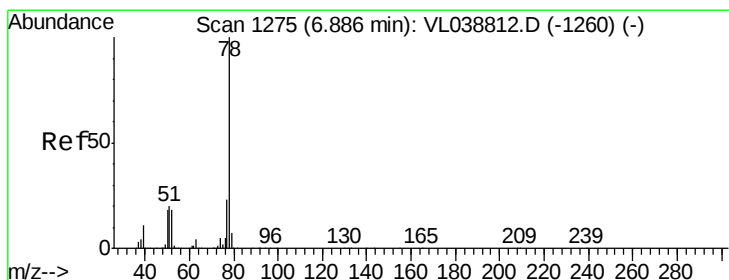
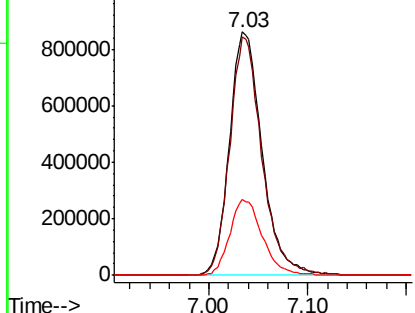
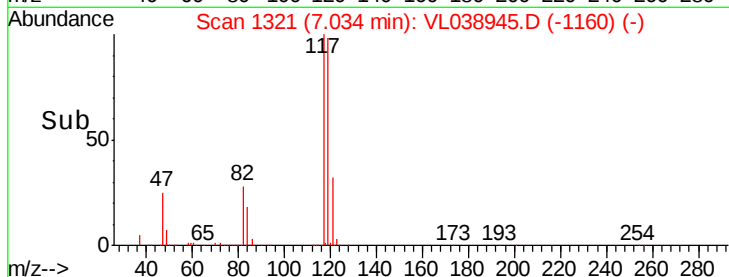
#35  
Carbon Tetrachloride  
Concen: 10.715 ppbv  
RT: 7.03  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId : VL0419ABS01  
Acq: 19 Apr 2022 11:58

Tot Ion:117 Resp: 1987437

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 97.8  | 77.7  | 116.5 |
| 121 | 31.4  | 24.5  | 36.7  |



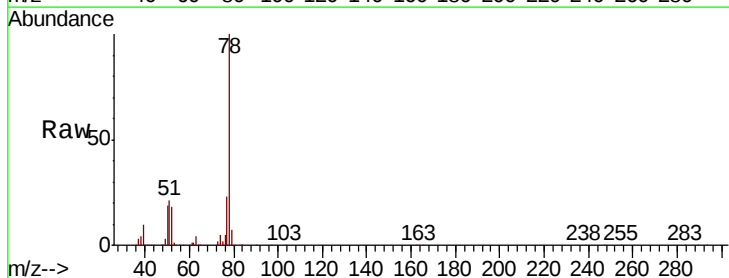
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



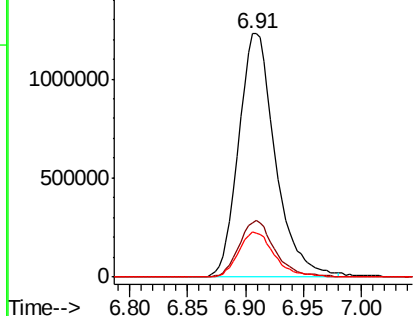
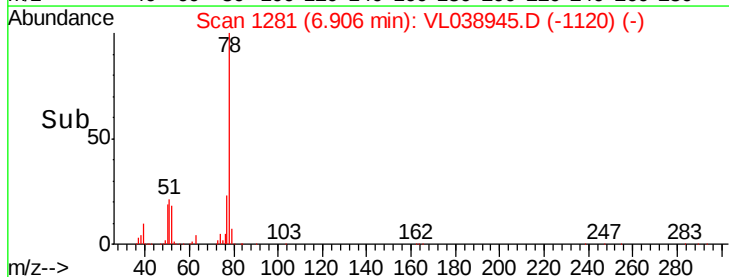
#36  
Benzene  
Concen: 9.629 ppbv  
RT: 6.91 min Scan# 1281  
Delta R.T. 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

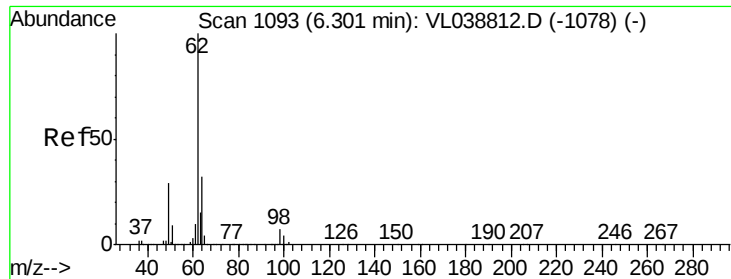
Tgt Ion: 78 Resp: 2710050

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 22.5  | 18.2  | 27.2  |
| 50  | 18.7  | 14.0  | 21.0  |



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 11.497 ppbv

RT: 6.32 Instrument: MSVOA\_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: VL0419ABS01

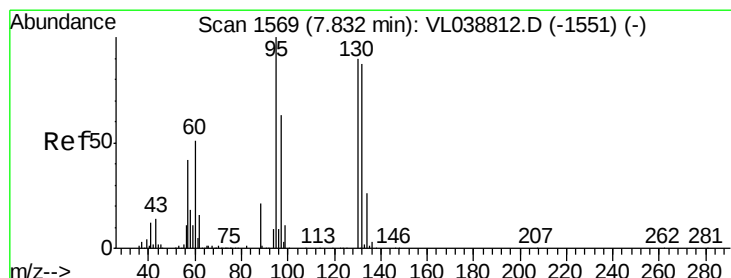
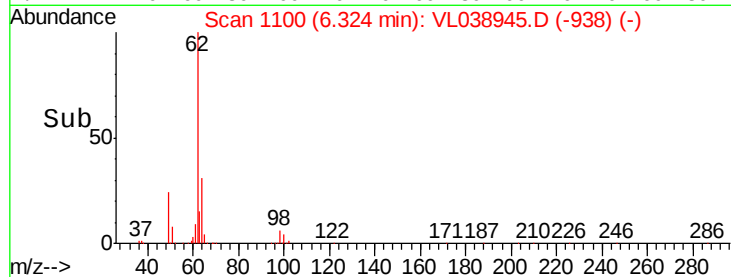
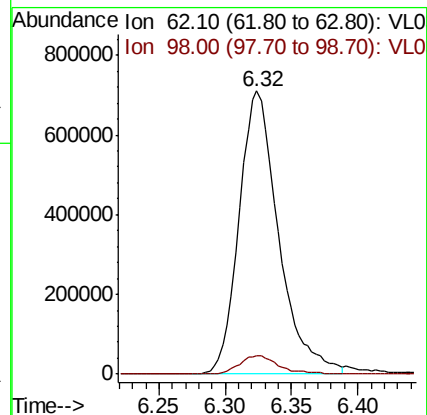
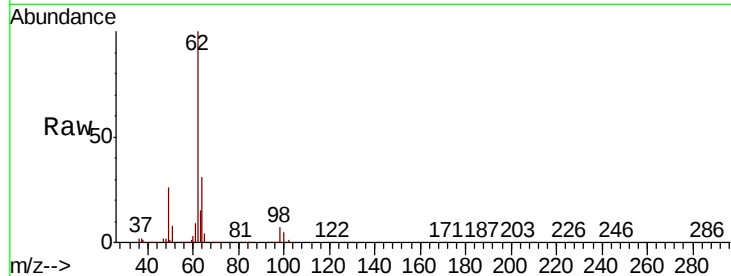
Acq: 19 Apr 2022 11:58

Tot Ion: 62 Resp: 1479422

Ion Ratio Lower Upper

62 100

98 6.7 5.9 8.9



#38

Trichloroethene

Concen: 9.499 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

Tgt Ion: 130 Resp: 1097009

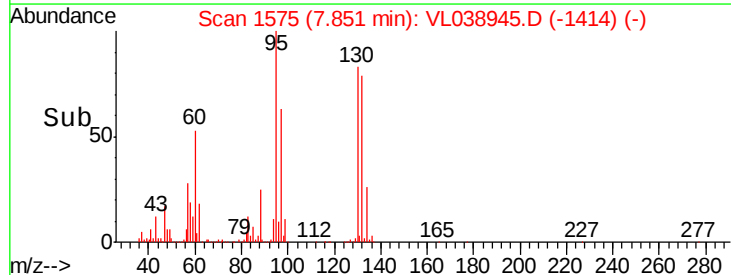
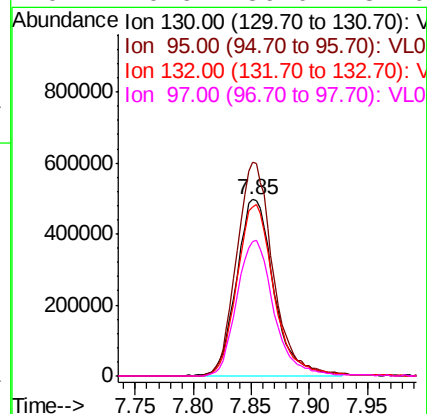
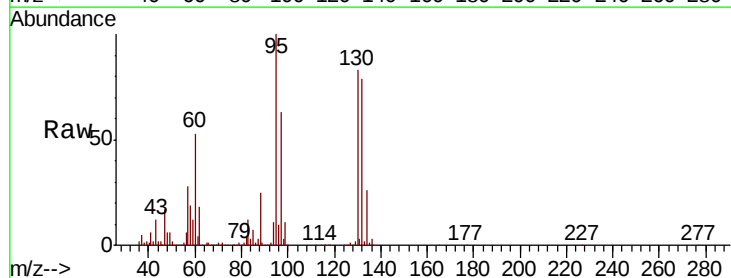
Ion Ratio Lower Upper

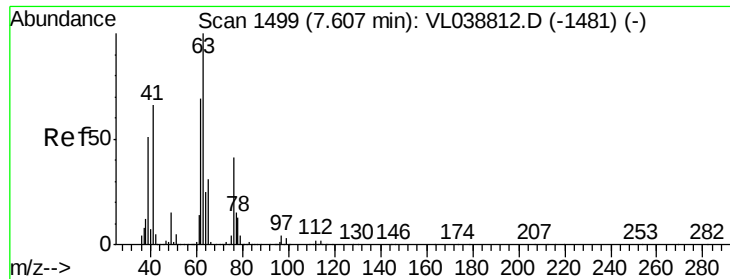
130 100

95 121.4 89.4 134.0

132 96.0 77.7 116.5

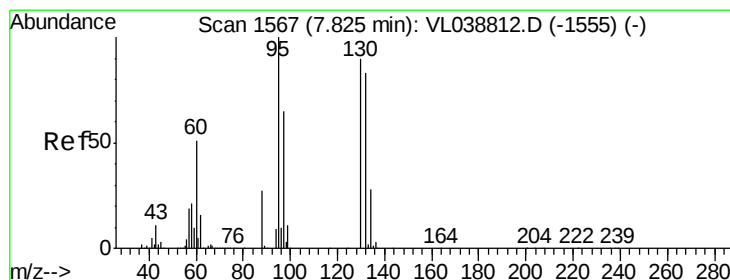
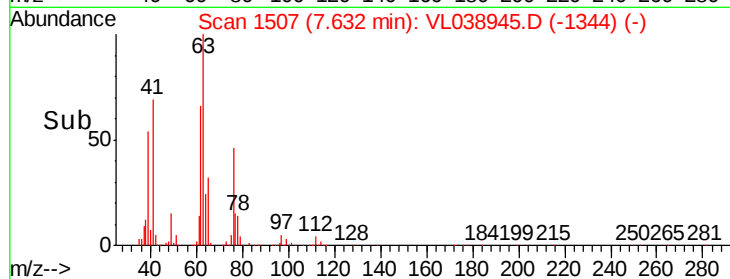
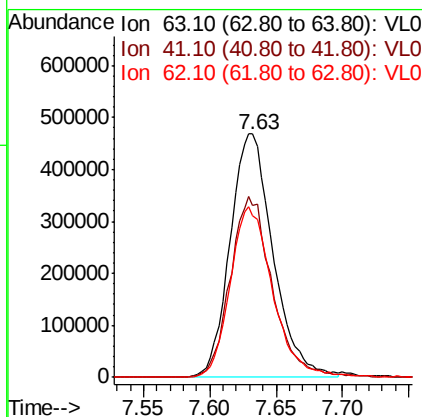
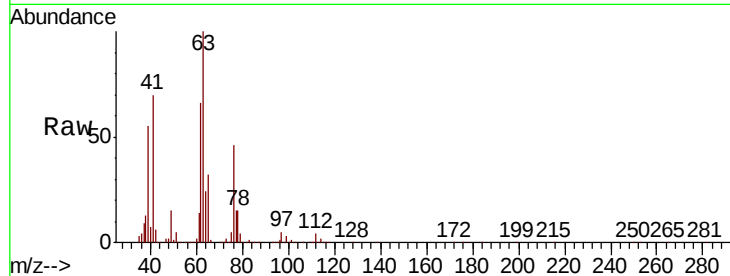
97 76.6 56.0 84.0





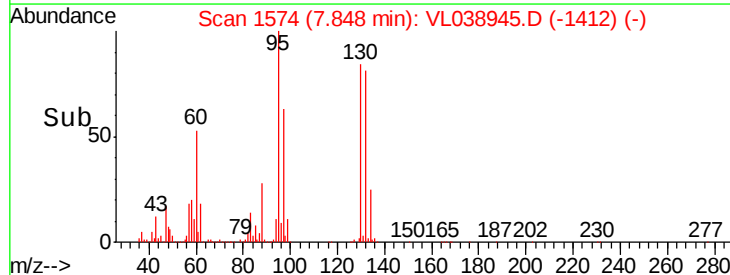
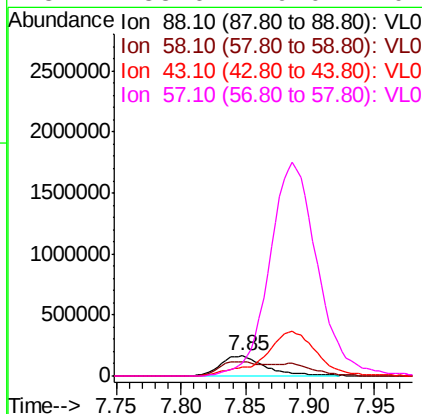
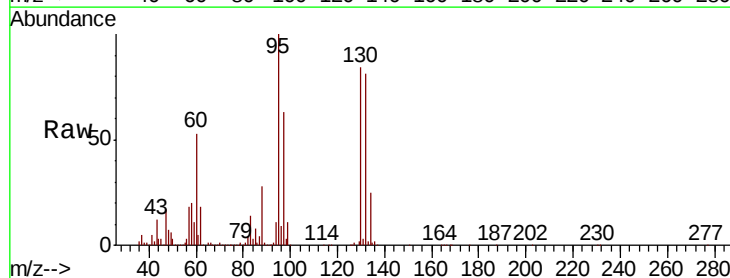
#39  
 1,2-Dichloropropane  
 Concen: 9.780 ppbv  
 RT: 7.63  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Apr 2022 11:58

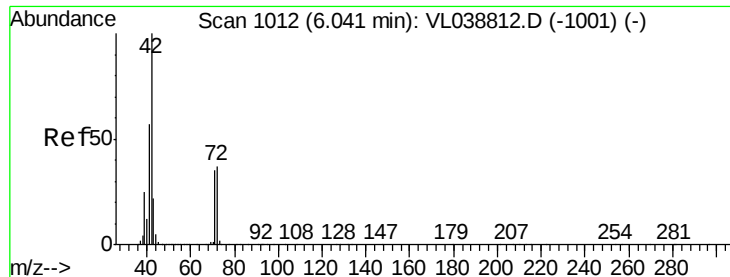
Tot Ion: 63 Resp: 1052863  
 Ion Ratio Lower Upper  
 63 100  
 41 70.3 53.0 79.6  
 62 66.0 55.0 82.4



#40  
 1,4-Dioxane  
 Concen: 10.751 ppbv  
 RT: 7.85 min Scan# 1574  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

Tgt Ion: 88 Resp: 393023  
 Ion Ratio Lower Upper  
 88 100  
 58 127.6 49.4 74.0#  
 43 260.3 0.0 0.0#  
 57 1155.6 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.861 ppbv

RT: 6.06

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 11:58

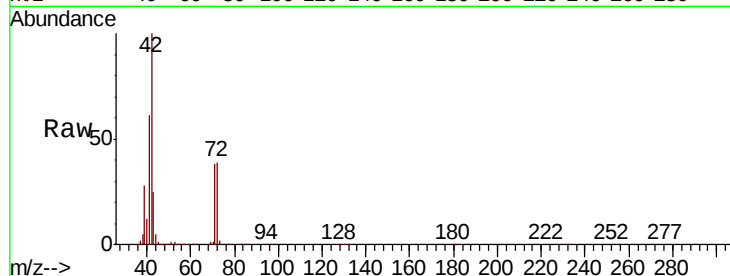
Tot Ion: 42 Resp: 1144950

Ion Ratio Lower Upper

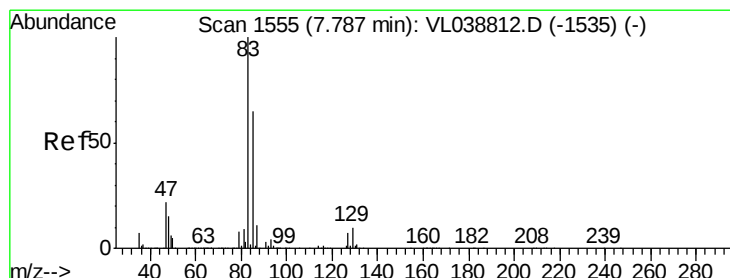
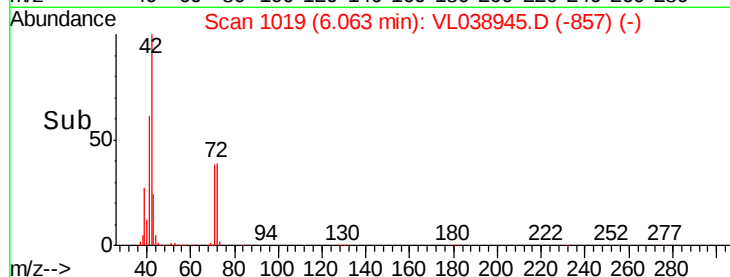
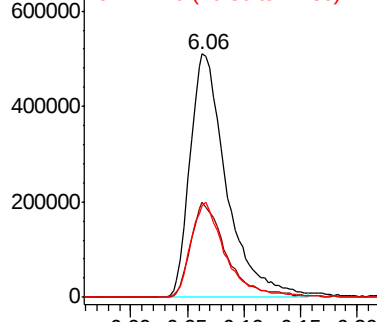
42 100

72 38.9 31.4 47.0

71 37.5 30.2 45.4



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: 10.902 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

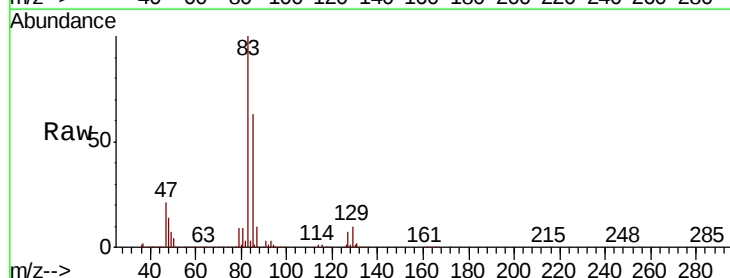
Tgt Ion: 83 Resp: 2215361

Ion Ratio Lower Upper

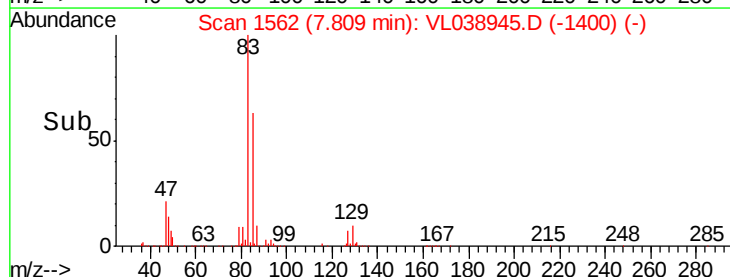
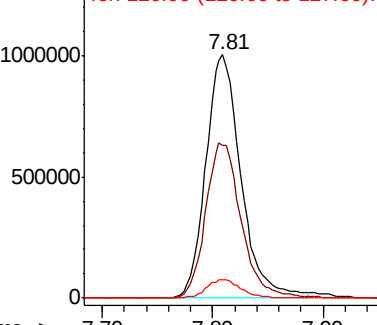
83 100

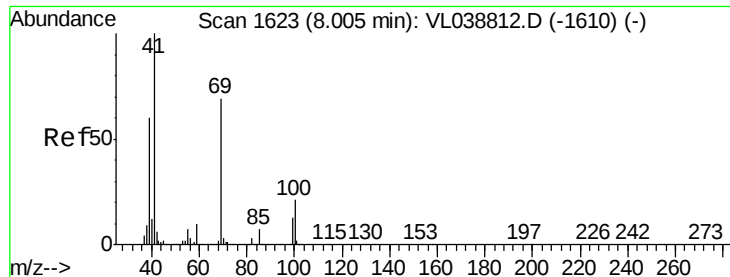
85 62.9 51.7 77.5

127 7.5 5.9 8.9



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: 10.603 ppbv

RT: 8.03 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VL0419ABS01

Acq: 19 Apr 2022 11:58

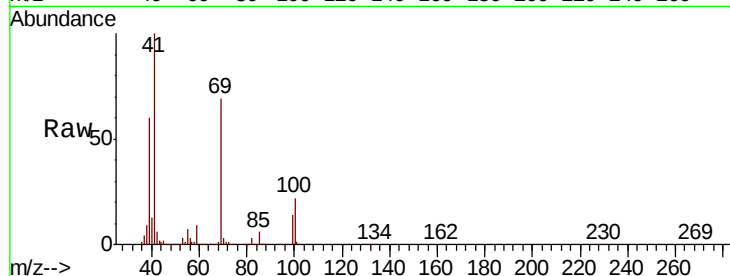
Tot Ion: 69 Resp: 1143026

Ion Ratio Lower Upper

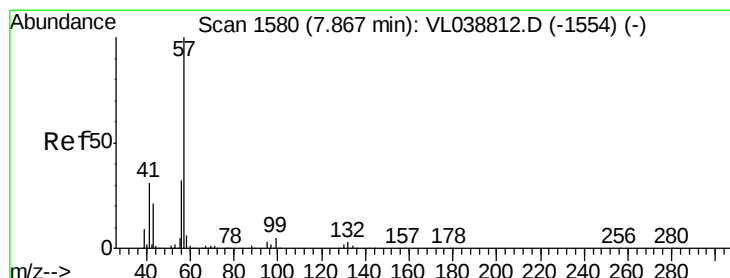
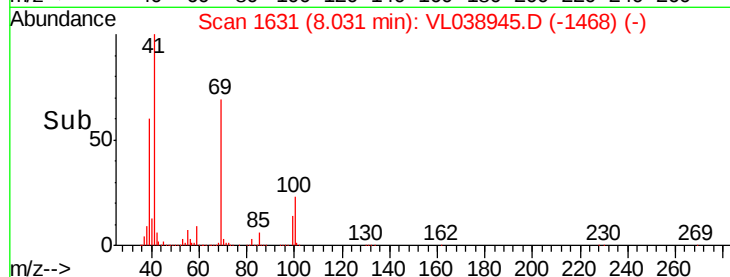
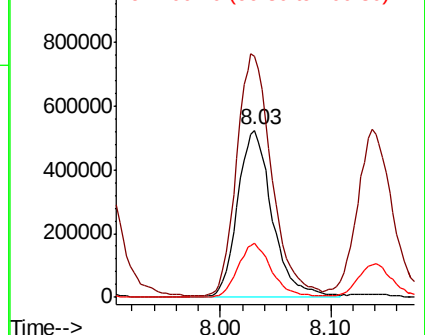
69 100

41 147.2 119.0 178.4

100 31.5 26.4 39.6



Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 9.529 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

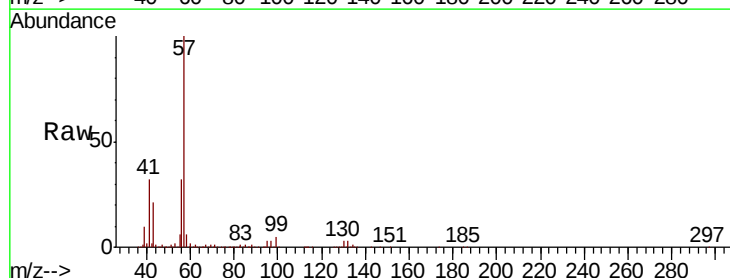
Tgt Ion: 57 Resp: 4540584

Ion Ratio Lower Upper

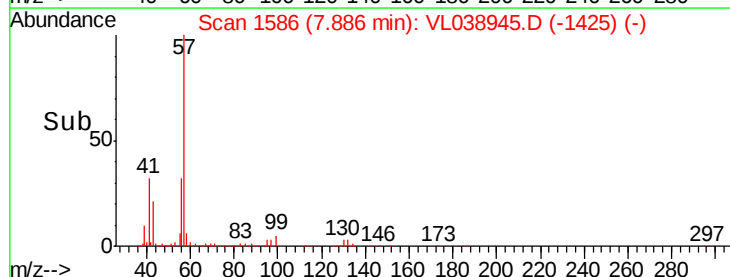
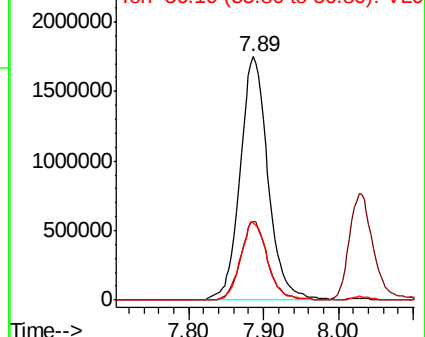
57 100

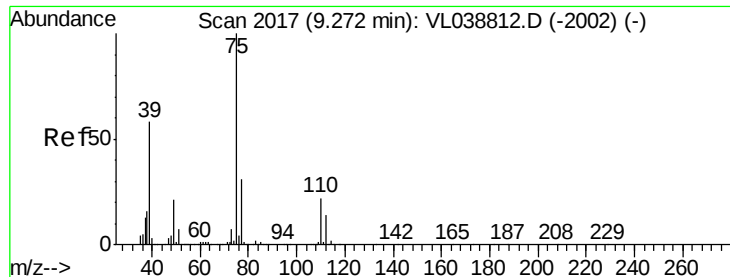
41 31.3 25.0 37.4

56 30.9 25.3 37.9



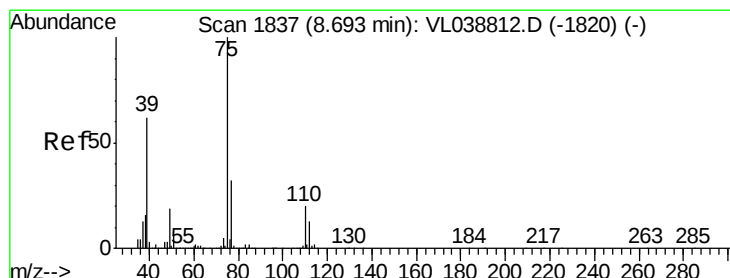
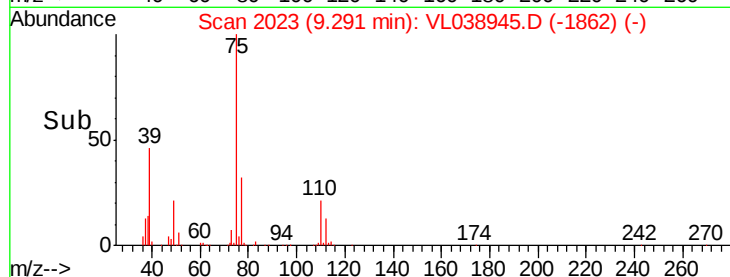
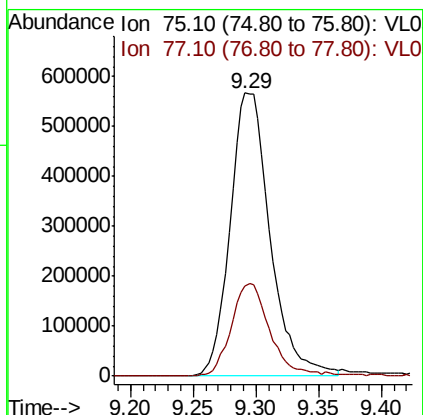
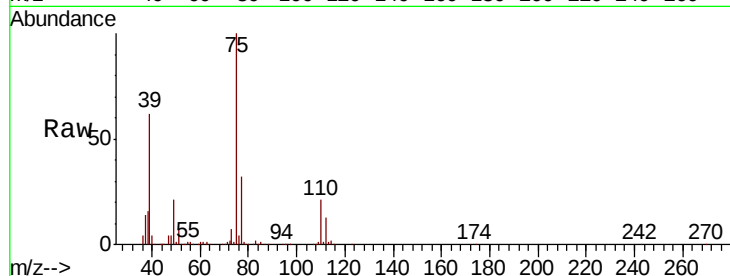
Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





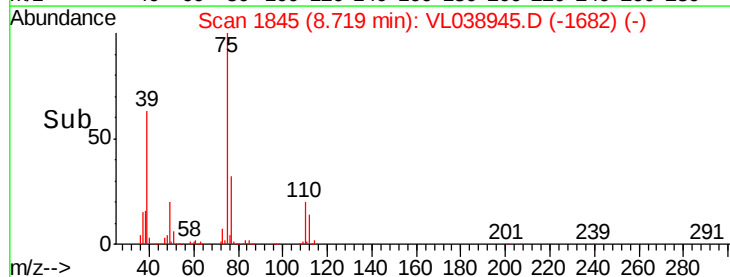
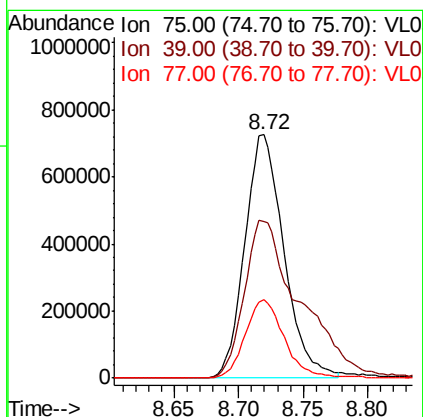
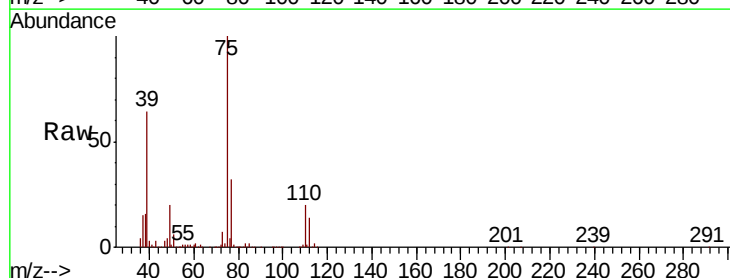
#45  
 t-1,3-Dichloropropene  
 Concen: 11.128 ppbv  
 RT: 9.29  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0419ABS01  
 Acq: 19 Apr 2022 11:58

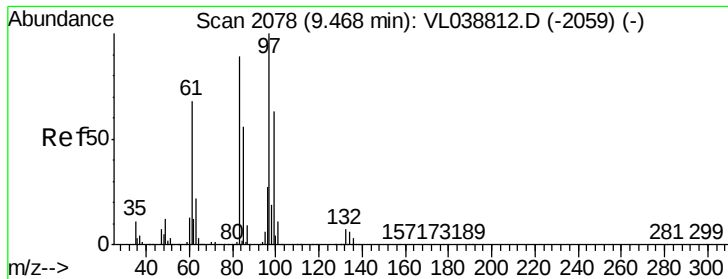
Tot Ion: 75 Resp: 1254305  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 25.0 37.4



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.331 ppbv  
 RT: 8.72 min Scan# 1845  
 Delta R.T. 0.03 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

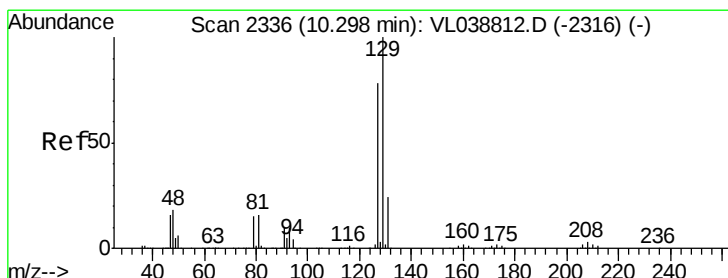
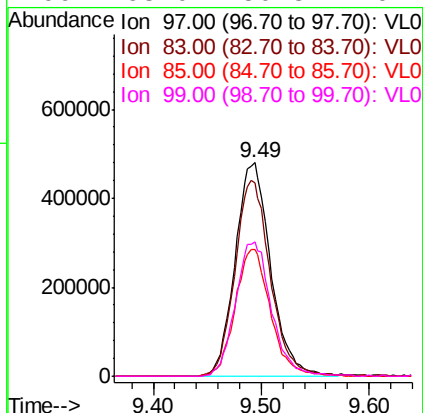
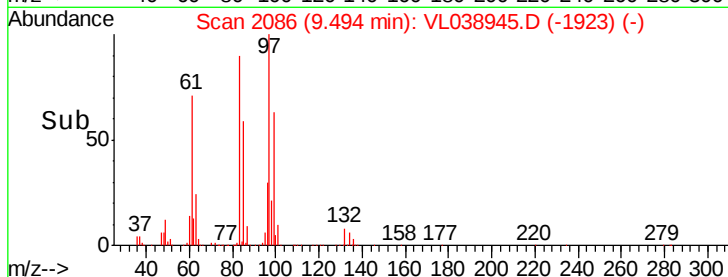
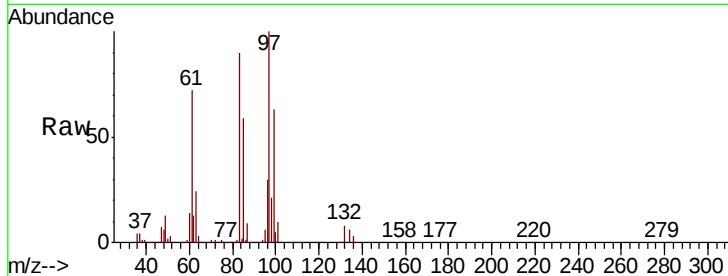
Tgt Ion: 75 Resp: 1535348  
 Ion Ratio Lower Upper  
 75 100  
 39 64.0 49.7 74.5  
 77 32.0 25.6 38.4





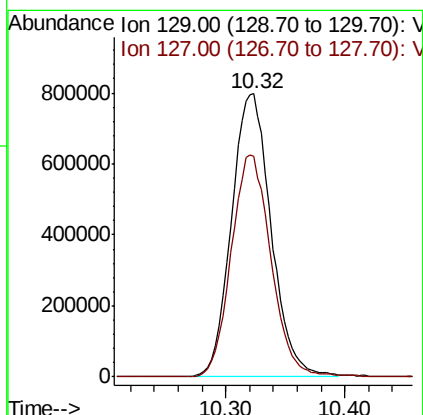
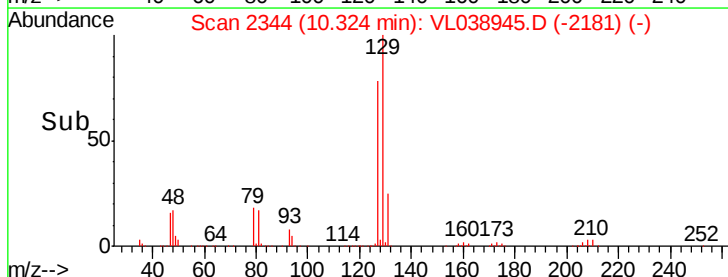
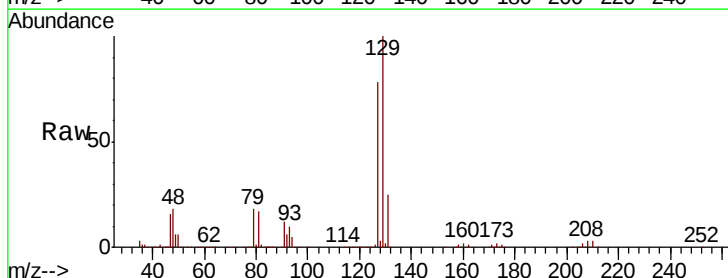
#47  
 1,1,2-Trichloroethane  
 Concen: 9.987 ppbv  
 RT: 9.49  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL0419ABS01  
 Acq: 19 Apr 2022 11:58

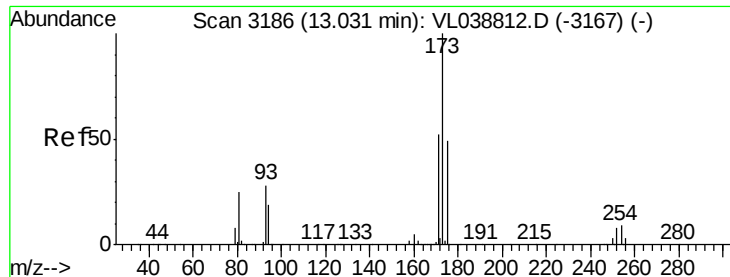
| Tot Ion: | 97    | Resp: | 1101616 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 97       | 100   |       |         |
| 83       | 90.1  | 71.1  | 106.7   |
| 85       | 59.2  | 45.1  | 67.7    |
| 99       | 63.0  | 50.8  | 76.2    |



#48  
 Dibromochloromethane  
 Concen: 10.613 ppbv  
 RT: 10.32 min Scan# 2344  
 Delta R.T. 0.03 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

| Tgt Ion: | 129   | Resp: | 1834872 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 78.9  | 38.9  | 116.6   |





#49

Bromoform

Concen: 11.034 ppbv

RT: 13.06

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 11:58

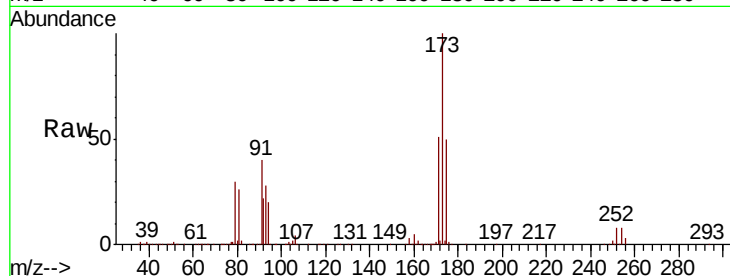
Tot Ion:173 Resp: 1510960

Ion Ratio Lower Upper

173 100

175 49.7 39.9 59.9

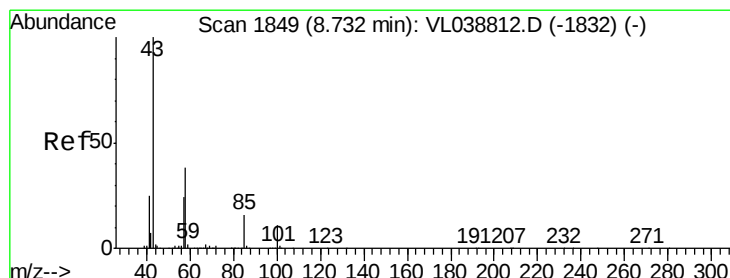
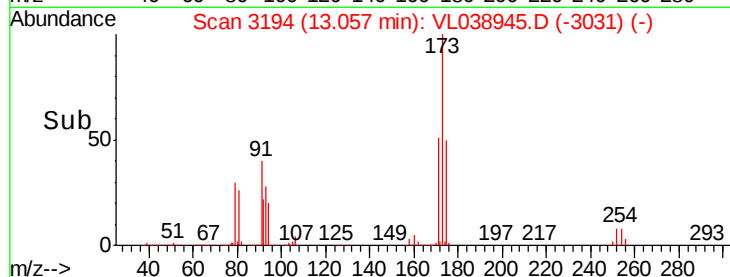
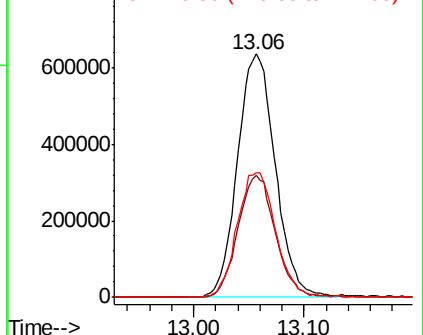
171 52.5 43.4 65.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.363 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.02 min

Lab File: VL038945.D

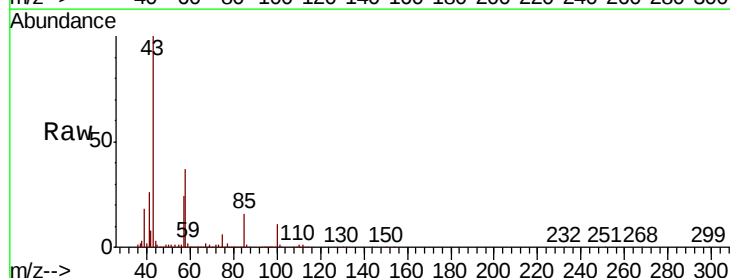
Acq: 19 Apr 2022 11:58

Tgt Ion: 43 Resp: 2849756

Ion Ratio Lower Upper

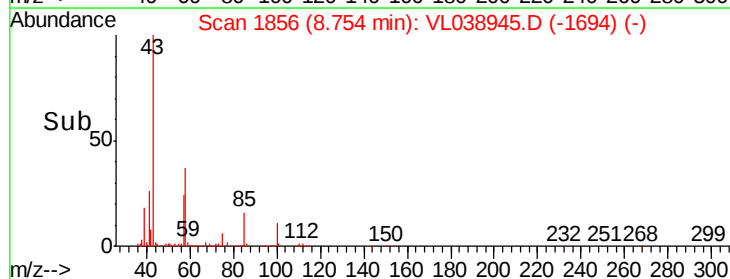
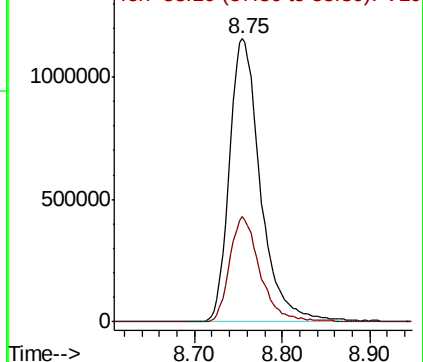
43 100

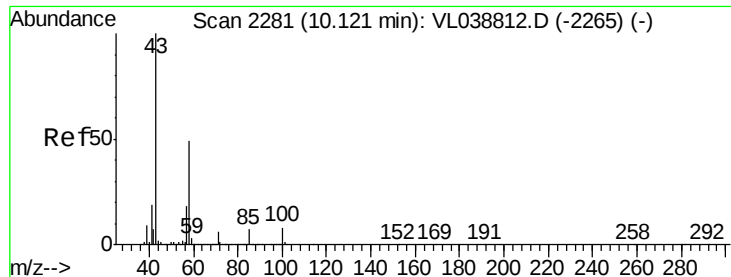
58 36.7 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

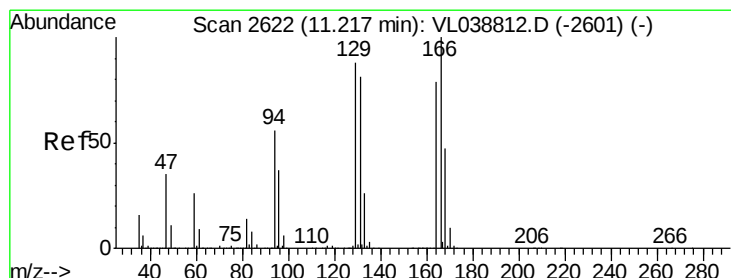
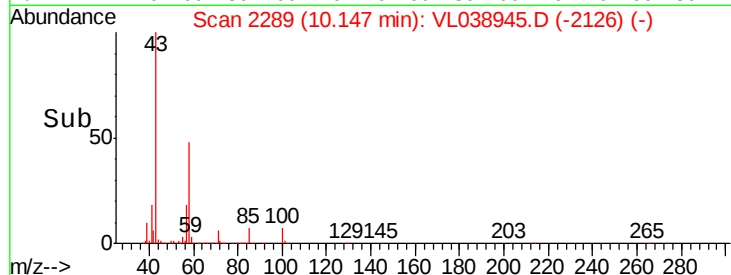
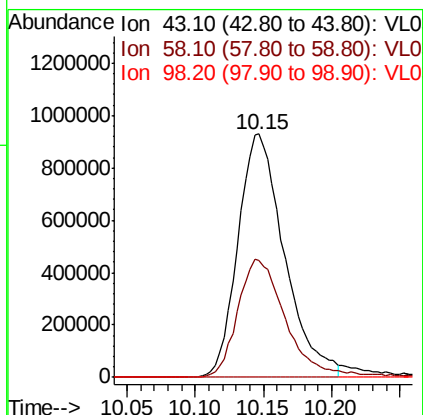
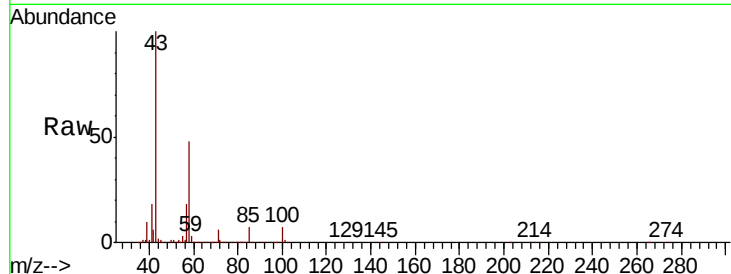
Ion 58.10 (57.80 to 58.80): VL0





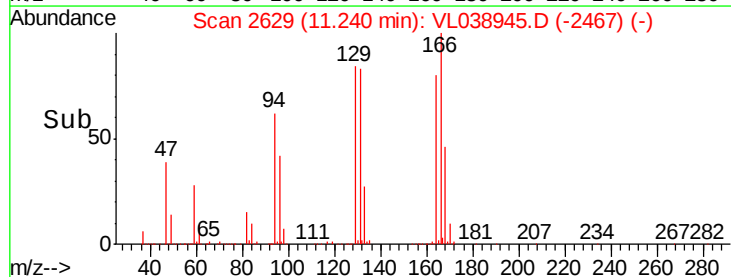
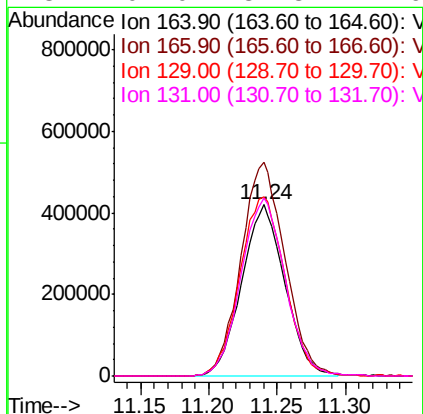
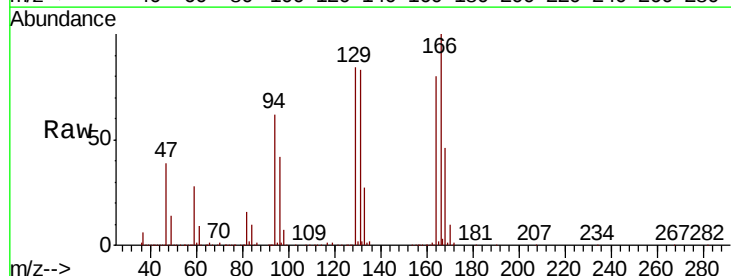
#51  
2-Hexanone  
Concen: 10.602 ppbv  
RT: 10.15  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
VL0419ABS01  
Acq: 19 Apr 2022 11:58

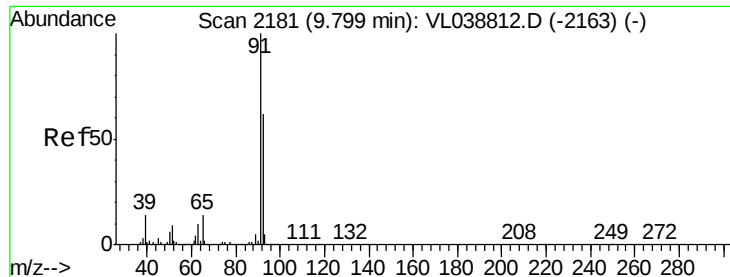
Tot Ion: 43 Resp: 2196697  
Ion Ratio Lower Upper  
43 100  
58 51.2 41.4 62.0  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 9.368 ppbv  
RT: 11.24 min Scan# 2629  
Delta R.T. 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

Tgt Ion: 164 Resp: 920957  
Ion Ratio Lower Upper  
164 100  
166 124.6 101.0 151.6  
129 104.3 88.7 133.1  
131 104.0 81.8 122.6





#53

Toluene

Concen: 9.819 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

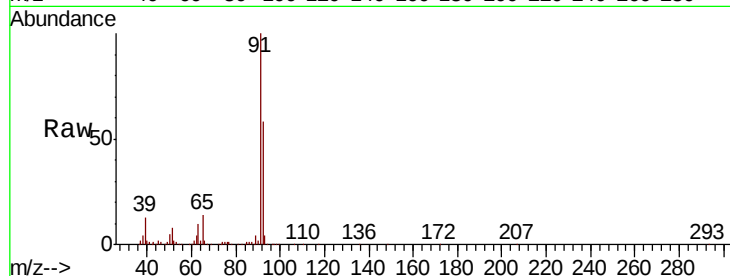
Acq: 19 Apr 2022 11:58 VL0419ABS01

Tot Ion: 91 Resp: 3190130

Ion Ratio Lower Upper

91 100

92 60.0 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.82

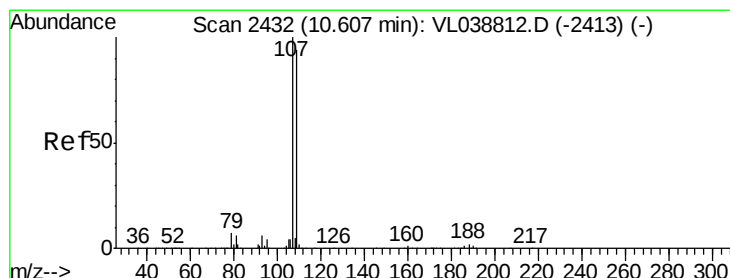
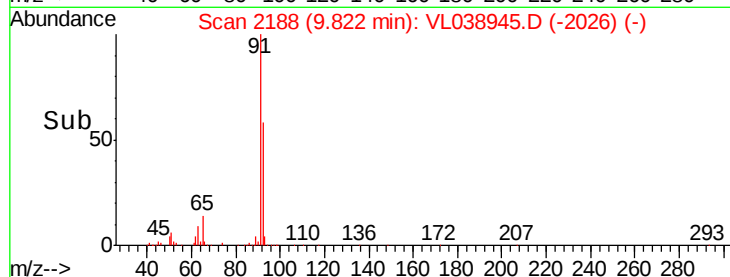
1500000

1000000

500000

0

Time--> 9.70 9.80 9.90



#54

1,2-Dibromoethane

Concen: 10.501 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. 0.02 min

Lab File: VL038945.D

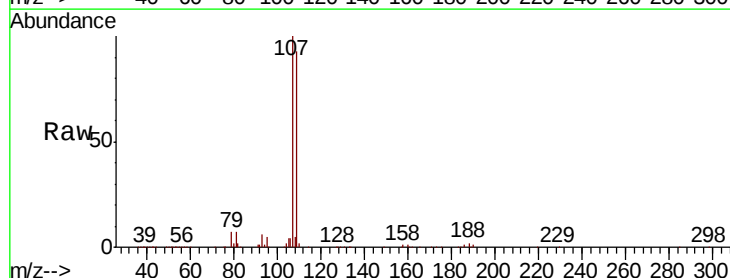
Acq: 19 Apr 2022 11:58

Tgt Ion:107 Resp: 1608962

Ion Ratio Lower Upper

107 100

109 93.2 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

800000

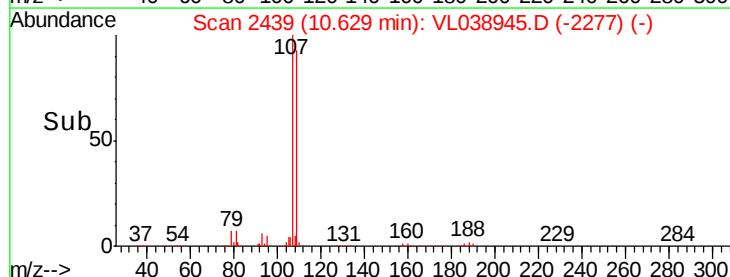
600000

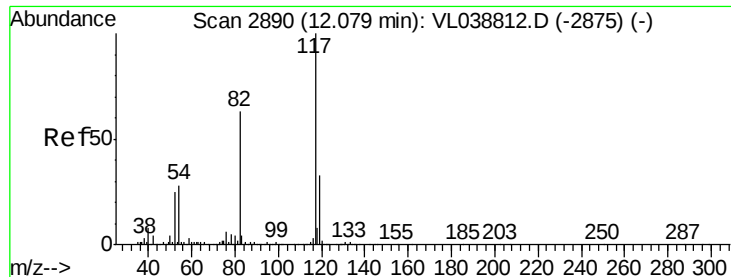
400000

200000

0

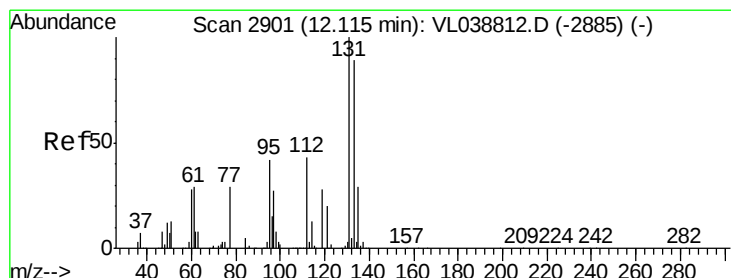
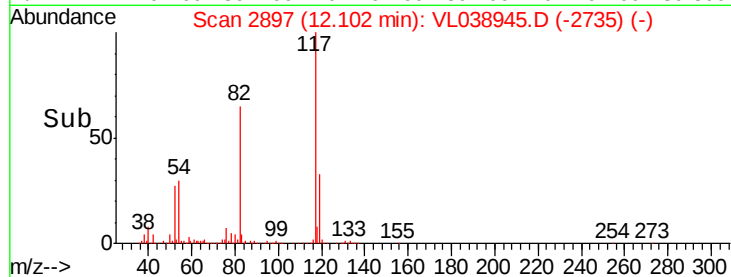
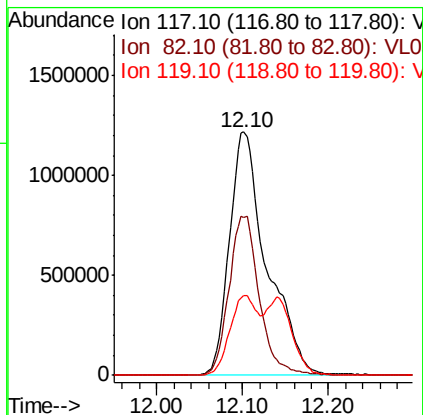
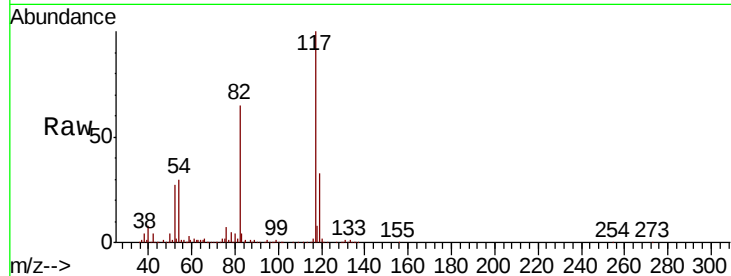
Time--> 10.60 10.63 10.66 10.70





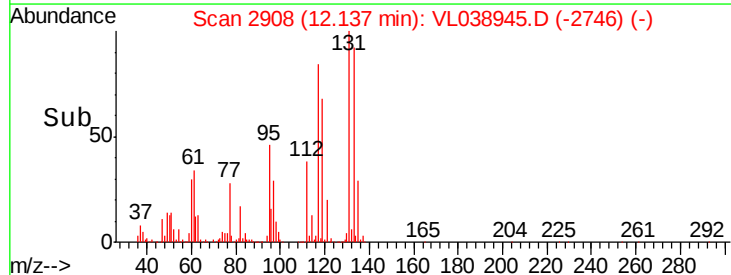
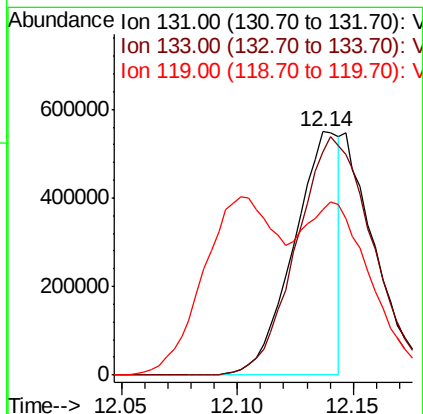
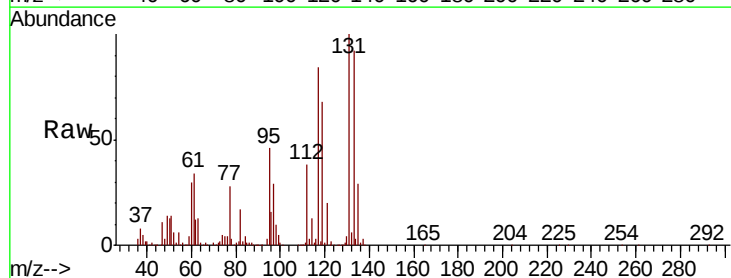
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.10 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId : VL0419ABS01  
 Acq: 19 Apr 2022 11:58

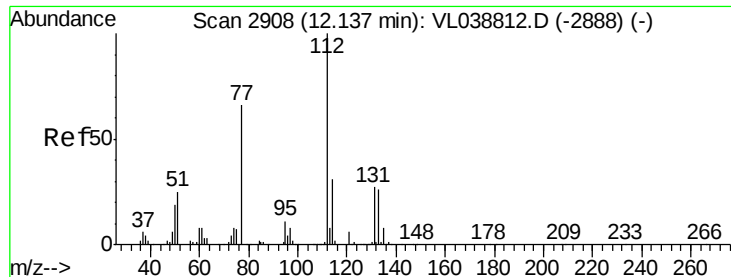
Tot Ion:117 Resp: 3683797  
 Ion Ratio Lower Upper  
 117 100  
 82 53.2 53.0 79.6  
 119 22.6 24.9 37.3#



#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 4.624 ppbv  
 RT: 12.14 min Scan# 2908  
 Delta R.T.: 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

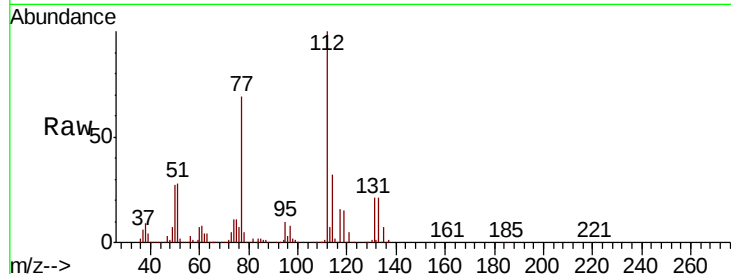
Tgt Ion:131 Resp: 746514  
 Ion Ratio Lower Upper  
 131 100  
 133 165.0 78.2 117.4#  
 119 120.3 58.6 87.8#



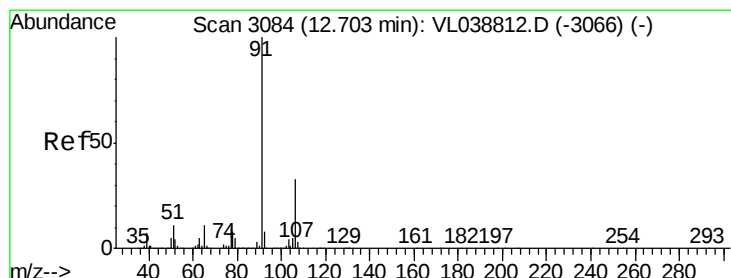
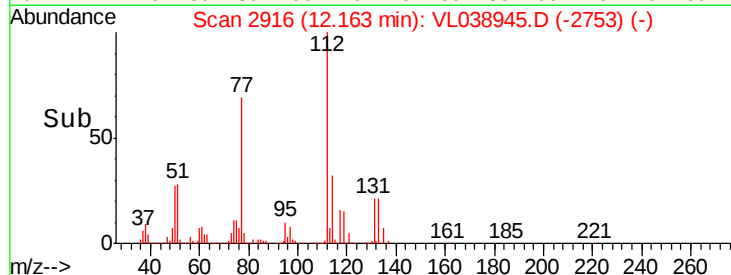
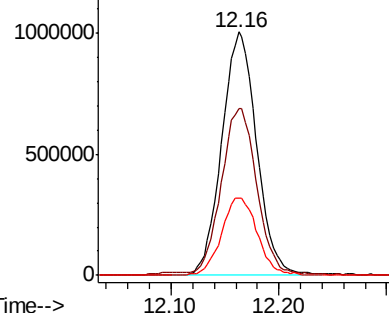


#57  
Chlorobenzene  
Concen: 7.514 ppbv  
RT: 12.16 min  
Delta R.T. 0.02 min  
Lab File: VL0419ABS01  
Acq: 19 Apr 2022 11:58

Tot Ion: 112 Resp: 2266973  
Ion Ratio Lower Upper  
112 100  
77 68.0 52.4 78.6  
114 31.7 28.1 34.3

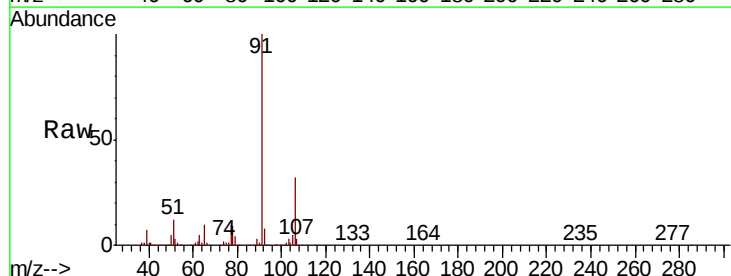


Abundance Ion 112.10 (111.80 to 112.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): VL0

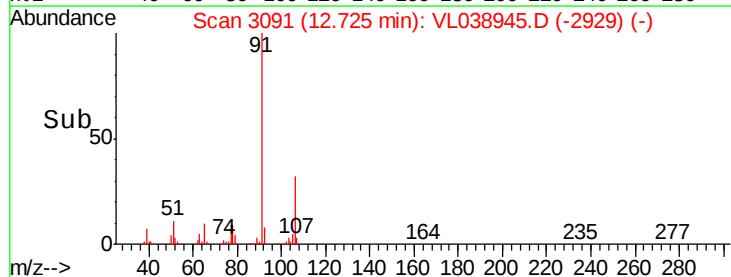
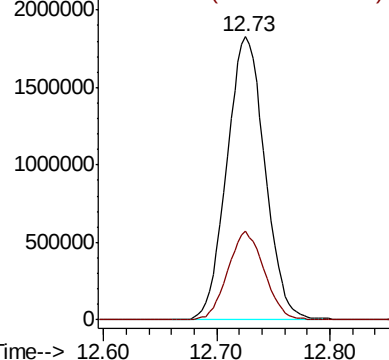


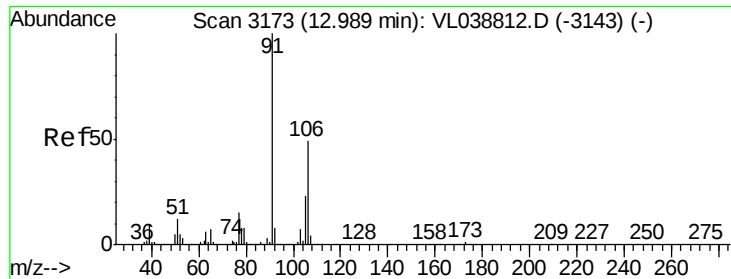
#58  
Ethyl Benzene  
Concen: 7.763 ppbv  
RT: 12.73 min Scan# 3091  
Delta R.T. 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

Tgt Ion: 91 Resp: 4273027  
Ion Ratio Lower Upper  
91 100  
106 31.6 26.7 40.1



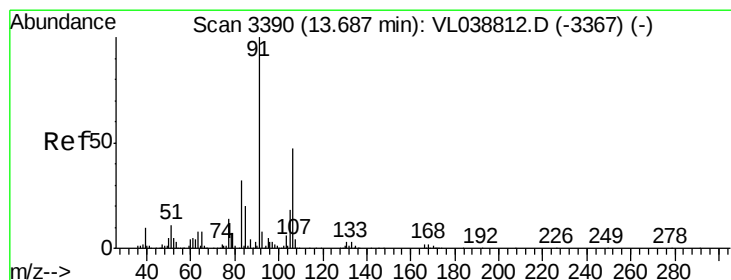
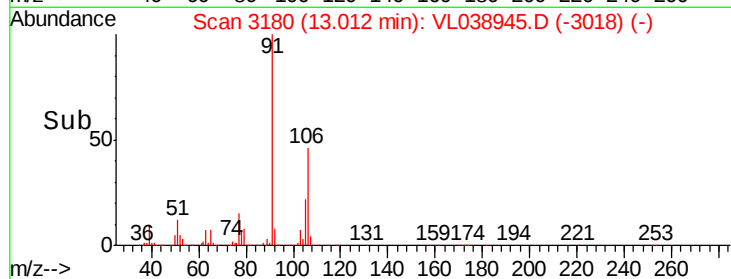
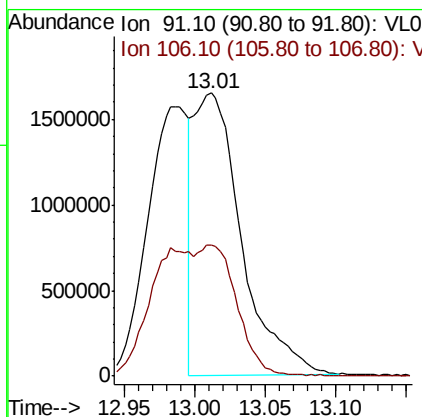
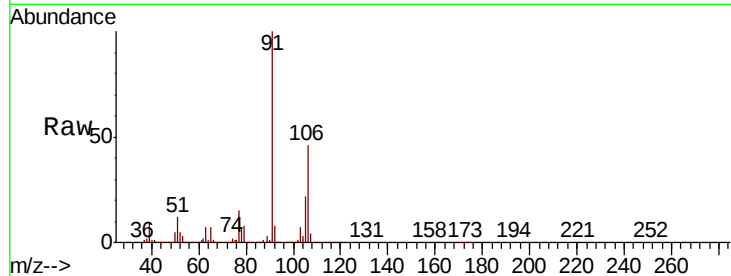
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): VL0





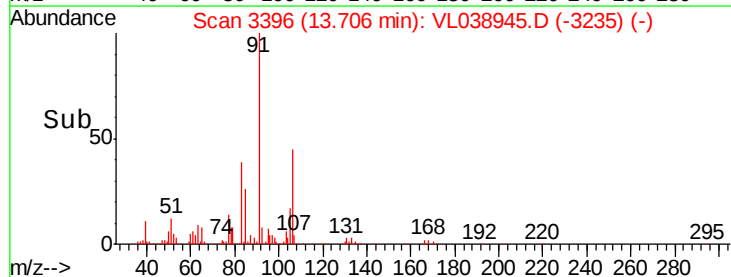
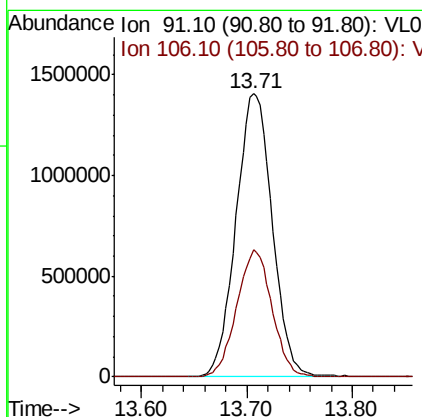
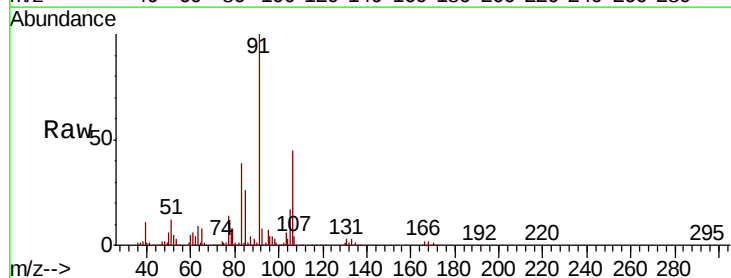
#59  
m/p-Xylene  
Concen: 8.336 ppbv  
RT: 13.01 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL0419ABS01  
Acq: 19 Apr 2022 11:58

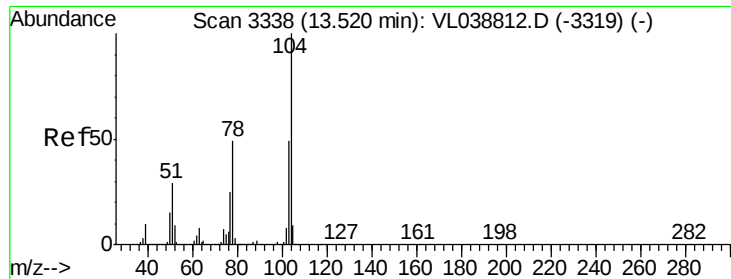
Tot Ion: 91 Resp: 3855191  
Ion Ratio Lower Upper  
91 100  
106 80.5 37.1 55.7#



#60  
o-Xylene  
Concen: 7.751 ppbv  
RT: 13.71 min Scan# 3396  
Delta R.T. 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

Tgt Ion: 91 Resp: 3354143  
Ion Ratio Lower Upper  
91 100  
106 43.8 23.8 71.4

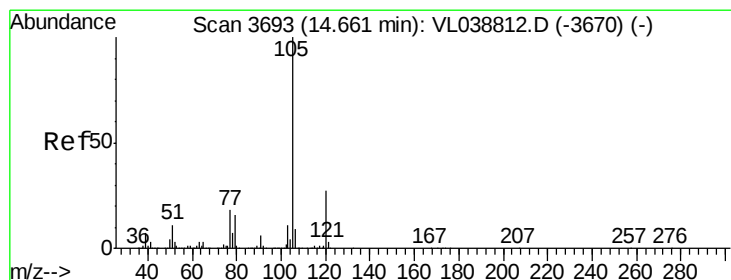
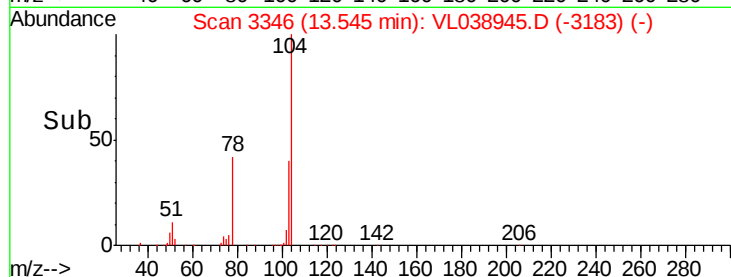
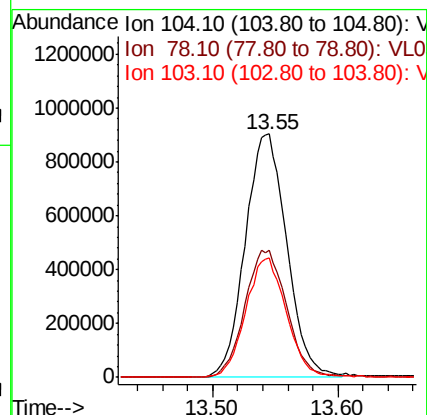
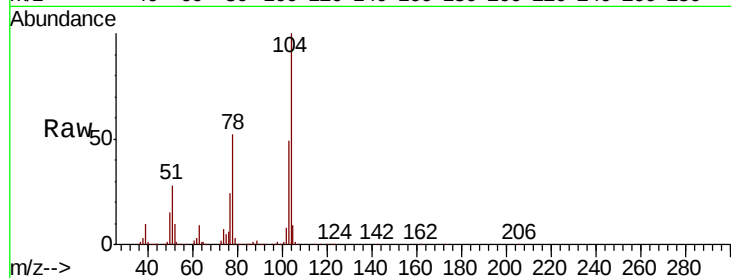




#61  
Stvrene  
Concen: 7.888 ppbv  
RT: 13.55  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 11:58

Tot Ion:104 Resp: 2079731

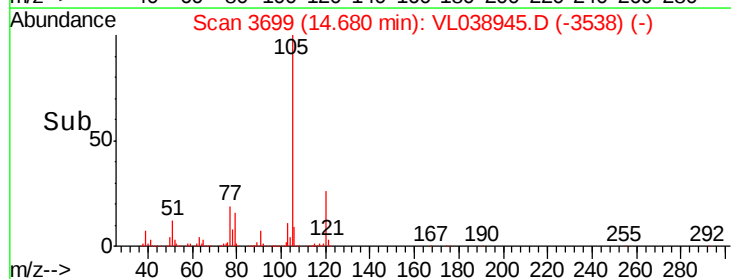
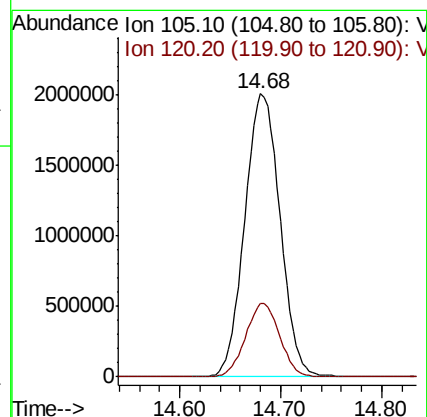
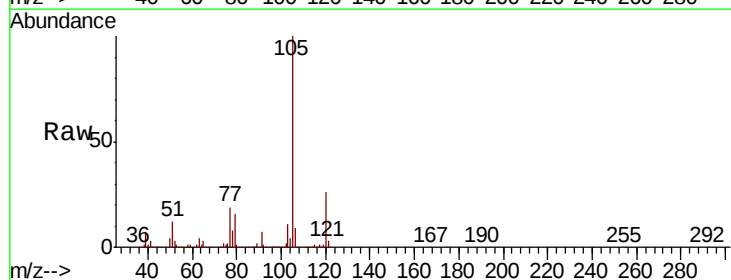
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 53.2  | 40.5  | 60.7  |
| 103 | 48.4  | 39.0  | 58.4  |

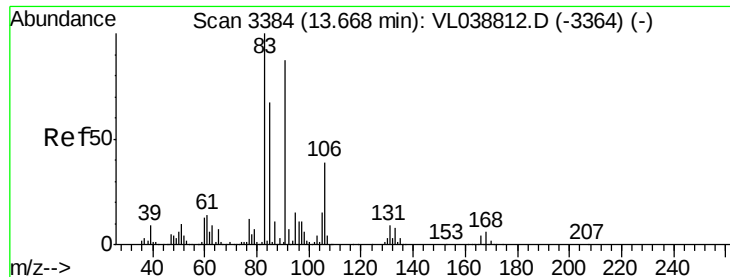


#62  
Isopropylbenzene  
Concen: 7.499 ppbv  
RT: 14.68 min Scan# 3699  
Delta R.T. 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

Tgt Ion:105 Resp: 4871161

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 25.2  | 21.8  | 32.8  |





#63

1,1,2,2-Tetrachloroethane

Concen: 7.576 ppbv

RT: 13.69

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VL0419ABS01

Acq: 19 Apr 2022 11:58

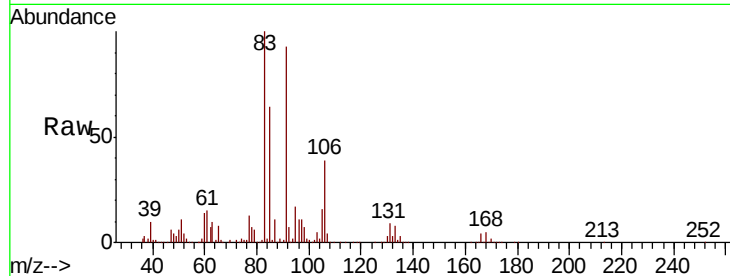
Tot Ion: 83 Resp: 2076527

Ion Ratio Lower Upper

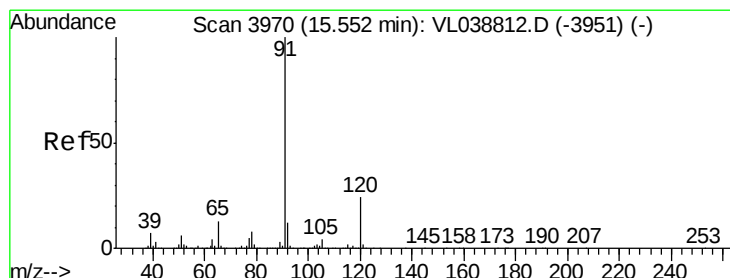
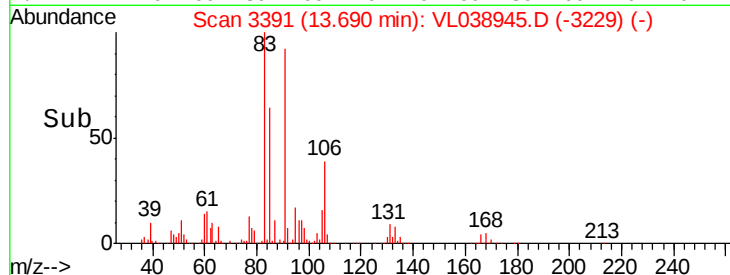
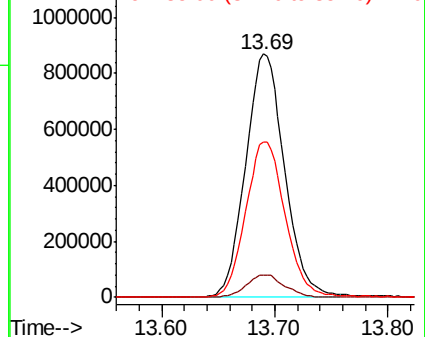
83 100

131 9.1 4.6 13.8

85 65.4 33.0 99.0



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



#64

n-propylbenzene

Concen: 7.389 ppbv

RT: 15.58 min Scan# 3978

Delta R.T. 0.03 min

Lab File: VL038945.D

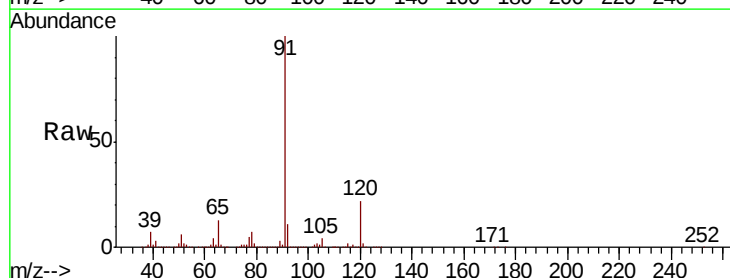
Acq: 19 Apr 2022 11:58

Tgt Ion:120 Resp: 1246156

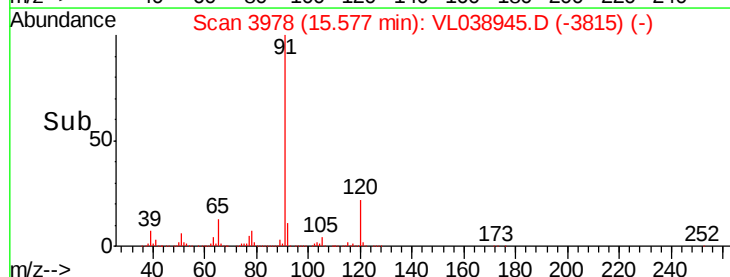
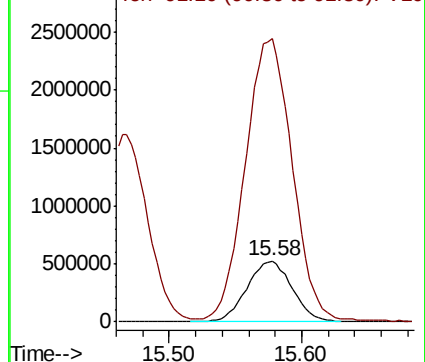
Ion Ratio Lower Upper

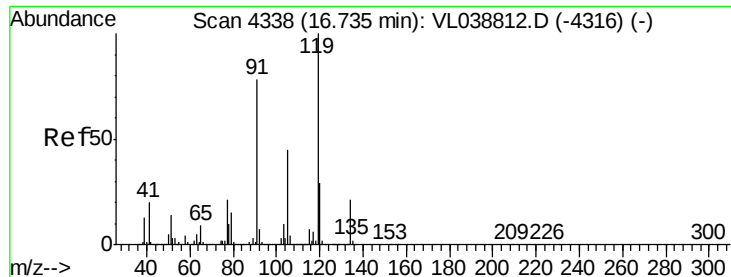
120 100

91 484.8 360.6 540.8



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

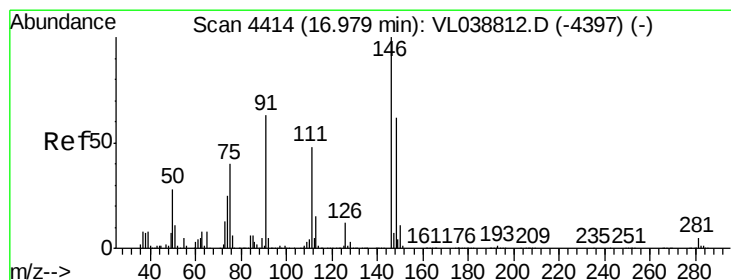
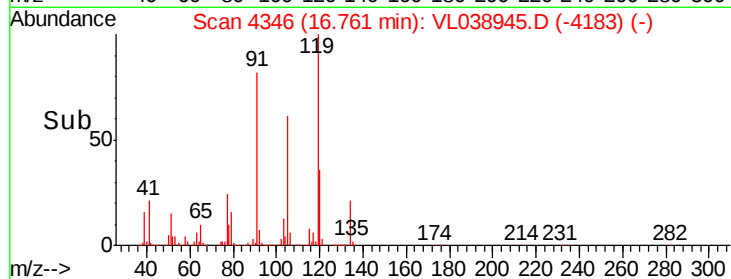
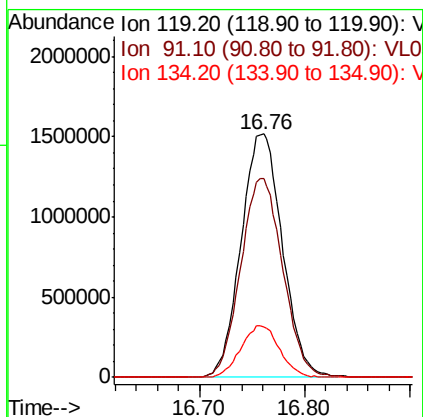
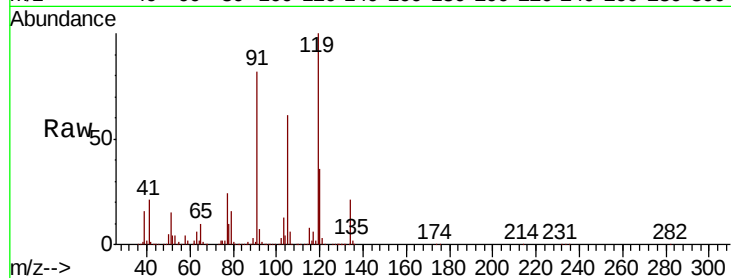




#65  
 tert-Butylbenzene  
 Concen: 7.168 ppbv  
 RT: 16.76 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId : VL0419ABS01  
 Acq: 19 Apr 2022 11:58

Tot Ion: 119 Resp: 4130822

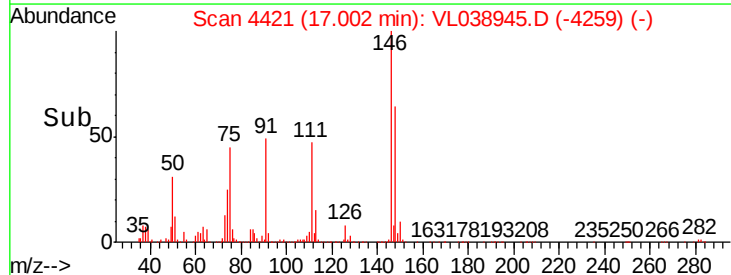
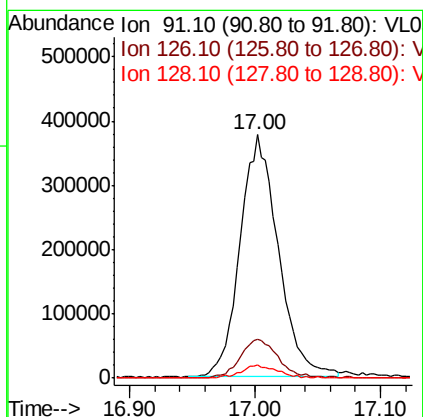
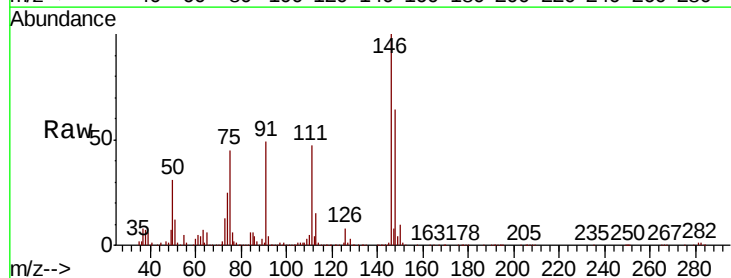
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 91  | 83.3  | 62.8  | 94.2  |
| 134 | 20.0  | 16.2  | 24.4  |

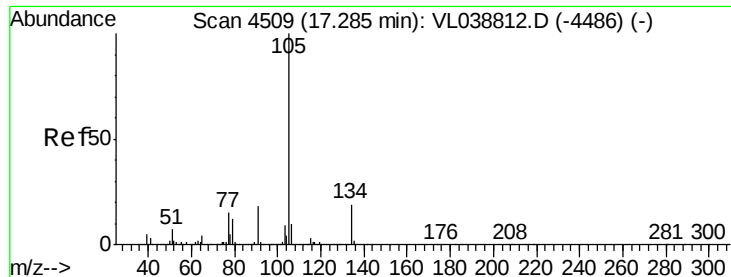


#66  
 Benzyl Chloride  
 Concen: 6.810 ppbv  
 RT: 17.00 min Scan# 4421  
 Delta R.T.: 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

Tgt Ion: 91 Resp: 799013

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 16.4  | 15.4  | 23.0  |
| 128 | 5.3   | 4.7   | 7.1   |





#67

sec-Butylbenzene

Concen: 7.440 ppbv

RT: 17.31

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

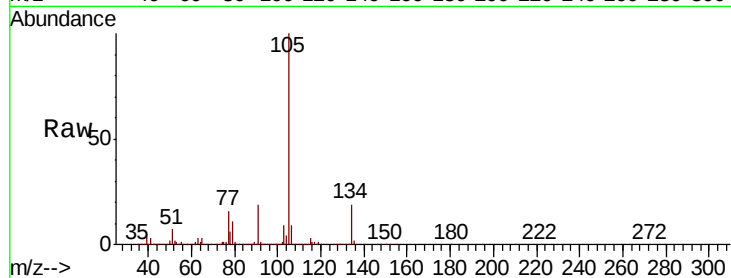
Acq: 19 Apr 2022 11:58

Tot Ion: 105 Resp: 6016132

Ion Ratio Lower Upper

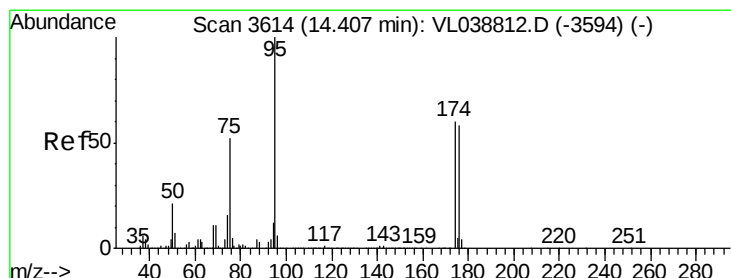
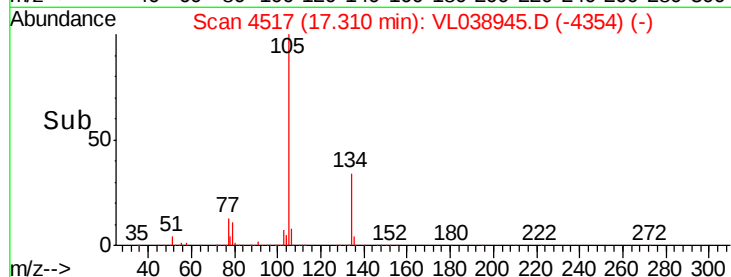
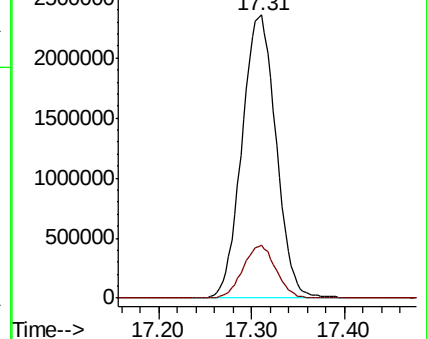
105 100

134 18.0 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.349 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

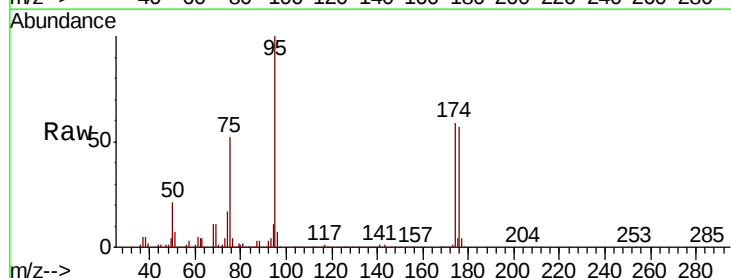
Tgt Ion: 95 Resp: 2333024

Ion Ratio Lower Upper

95 100

174 60.7 52.0 78.0

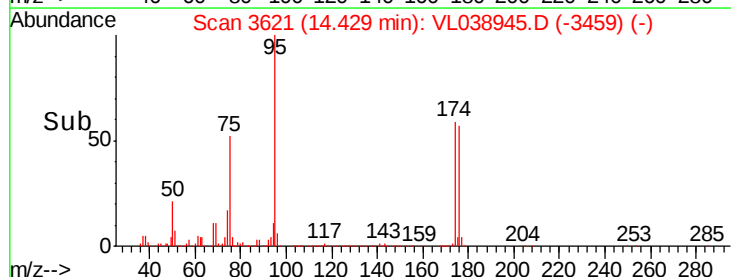
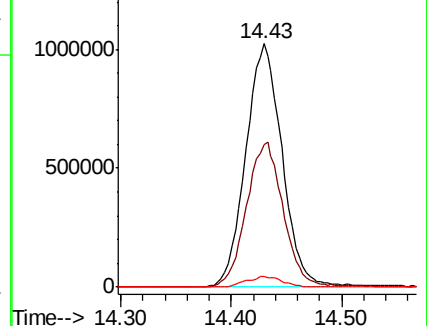
175 4.5 4.0 6.0

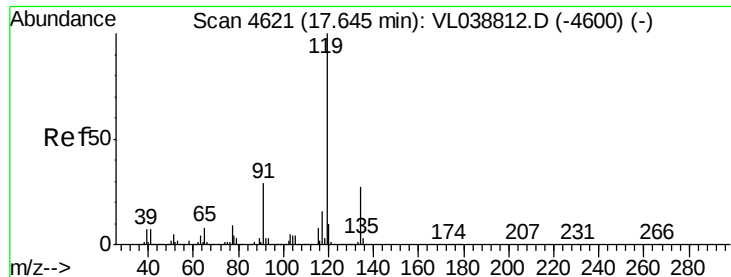


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

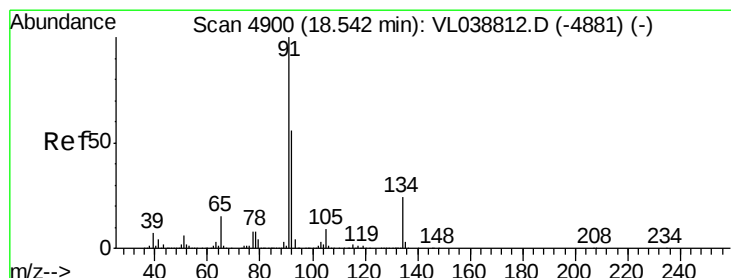
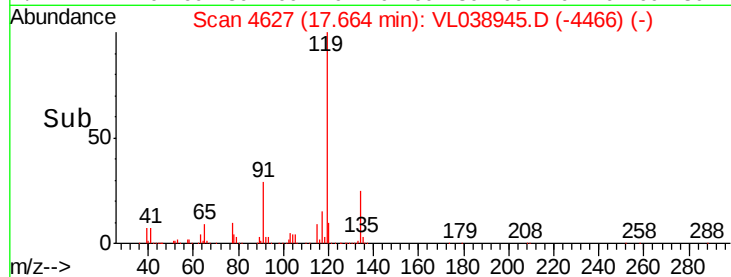
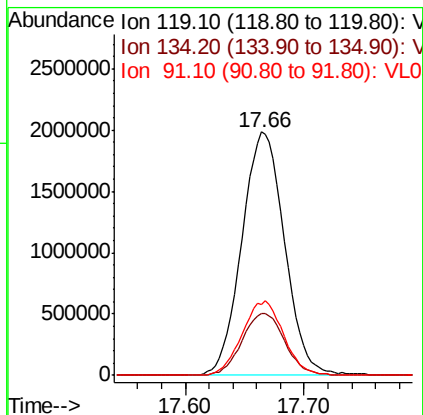
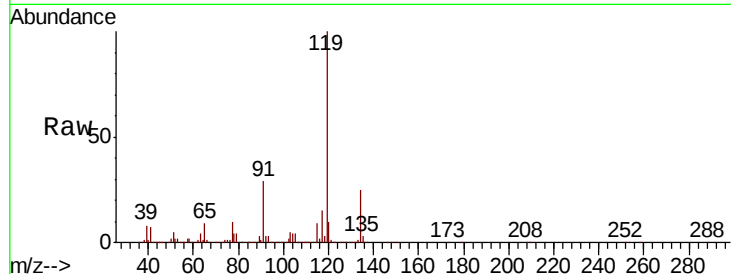
Ion 175.00 (174.70 to 175.70): V





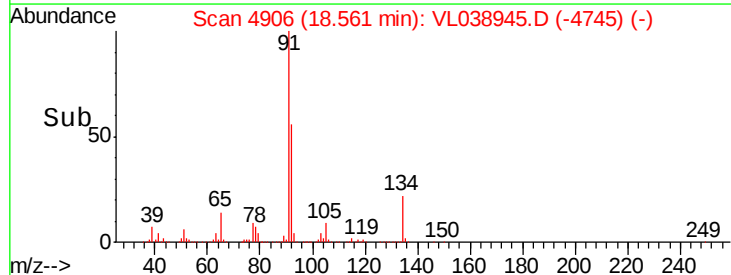
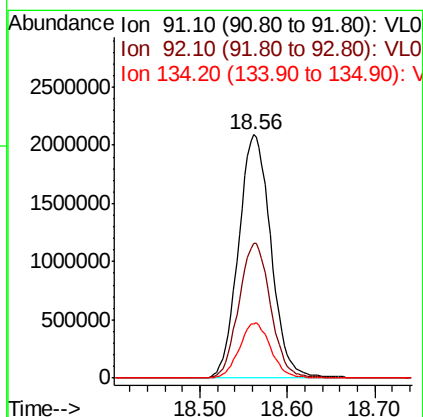
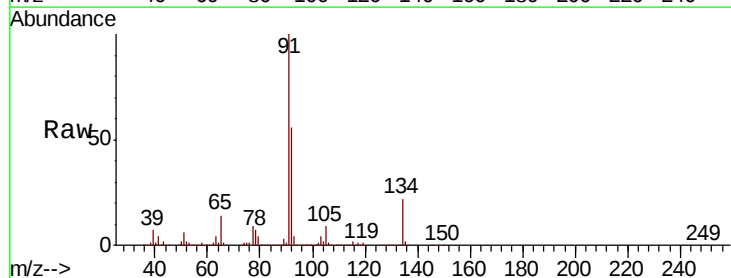
#69  
 p-Isopropyltoluene  
 Concen: 7.398 ppbv  
 RT: 17.66 min  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

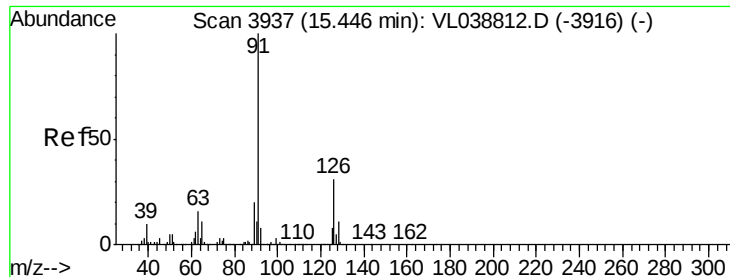
|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 4912336 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 134      | 25.6  | 20.8  | 31.2    |
| 91       | 29.8  | 22.6  | 34.0    |



#70  
 n-Butylbenzene  
 Concen: 8.021 ppbv  
 RT: 18.56 min Scan# 4906  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

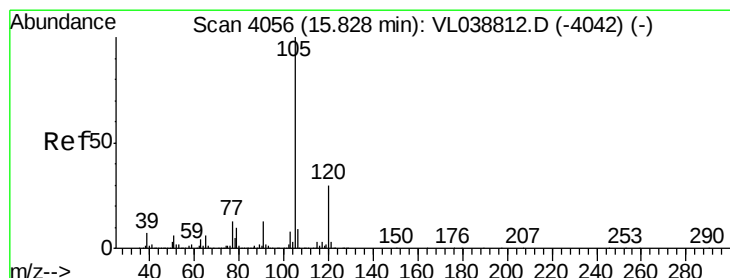
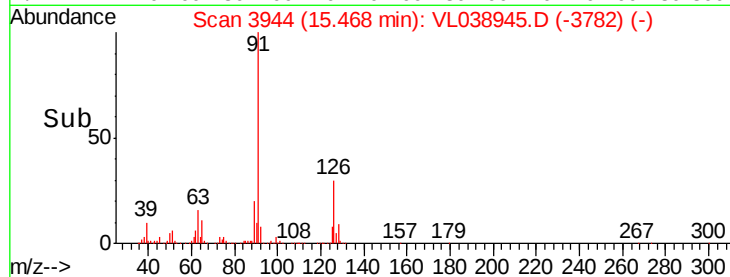
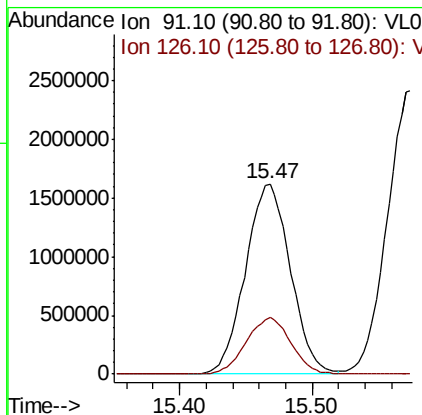
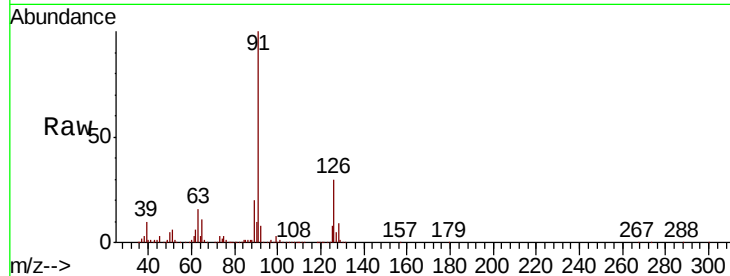
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 5365106 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 54.7  | 44.6  | 66.8    |
| 134      | 22.0  | 19.2  | 28.8    |





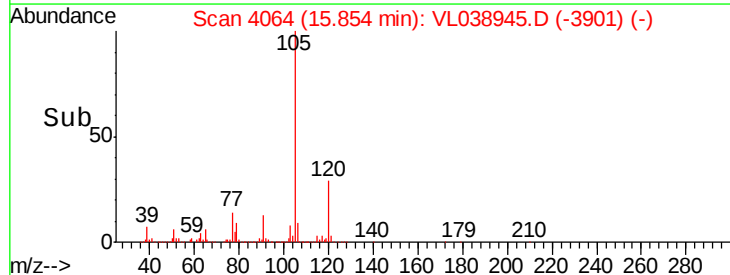
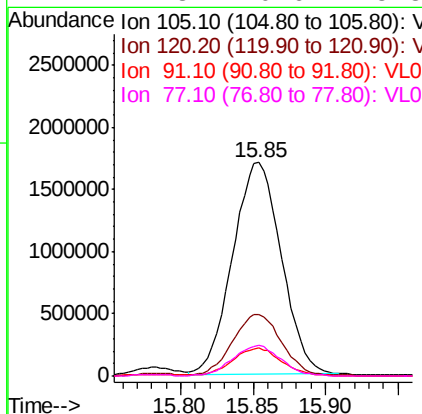
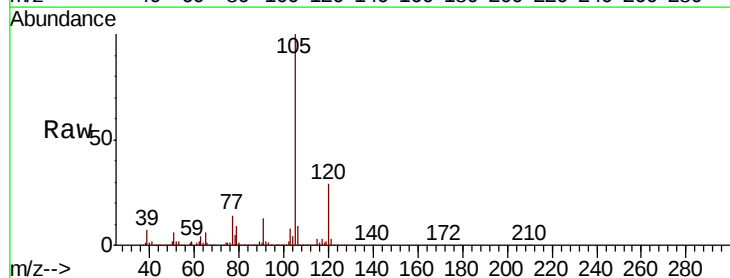
#71  
 2-Chlorotoluene  
 Concen: 7.823 ppbv  
 RT: 15.47  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VL0419ABS01  
 Acq: 19 Apr 2022 11:58

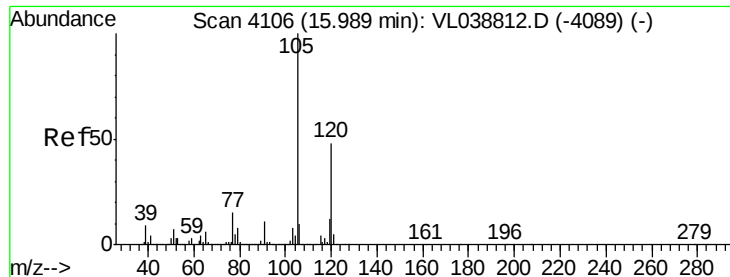
Tot Ion: 91 Resp: 3820818  
 Ion Ratio Lower Upper  
 91 100  
 126 30.0 13.0 51.8



#72  
 4-Ethyltoluene  
 Concen: 7.689 ppbv  
 RT: 15.85 min Scan# 4064  
 Delta R.T.: 0.03 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

Tgt Ion:105 Resp: 3973156  
 Ion Ratio Lower Upper  
 105 100  
 120 29.6 24.3 36.5  
 91 13.0 9.4 14.2  
 77 14.3 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 7.782 ppbv

RT: 16.01 min

Delta R.T. 0.02 min

Lab File: VL0419ABS01

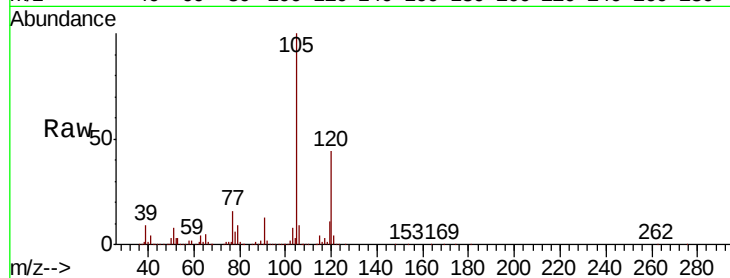
Acq: 19 Apr 2022 11:58

Tot Ion:105 Resp: 3612245

Ion Ratio Lower Upper

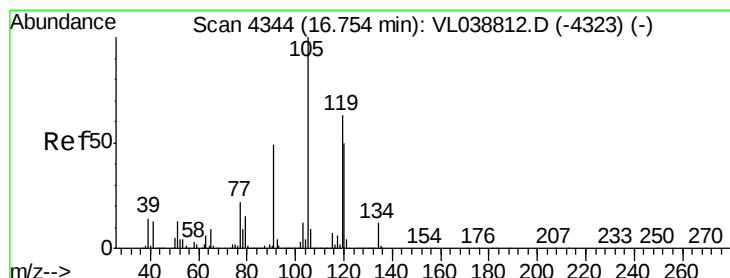
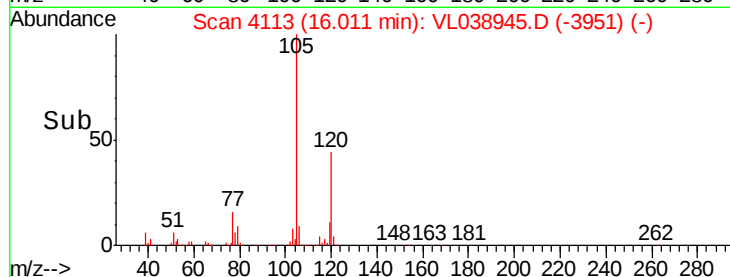
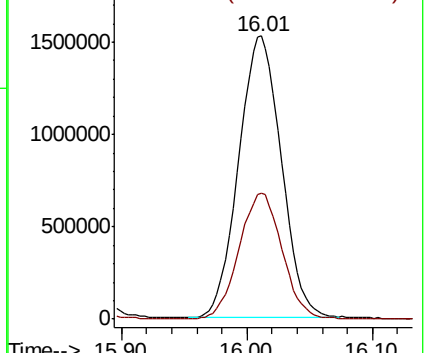
105 100

120 44.5 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.646 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.02 min

Lab File: VL038945.D

Acq: 19 Apr 2022 11:58

Tgt Ion:105 Resp: 3751778

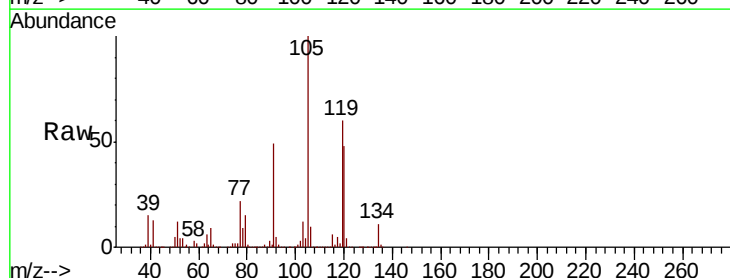
Ion Ratio Lower Upper

105 100

120 48.2 39.8 59.8

91 48.5 39.4 59.0

77 22.2 17.3 25.9

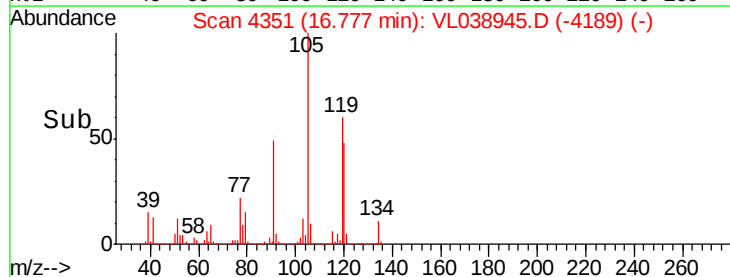
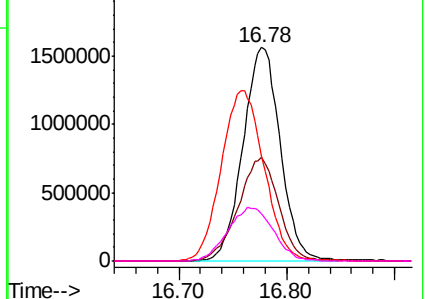


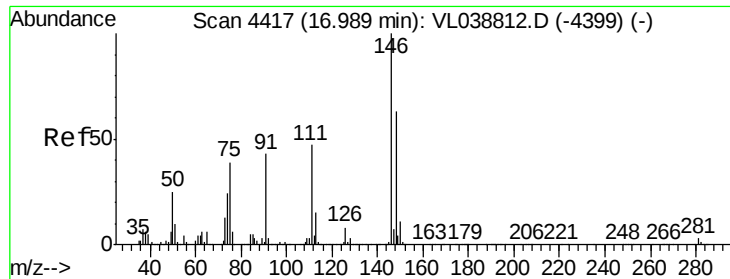
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

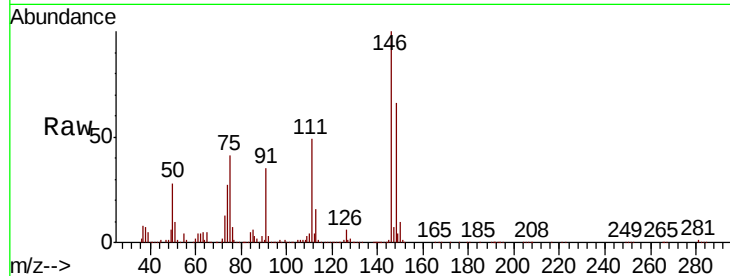




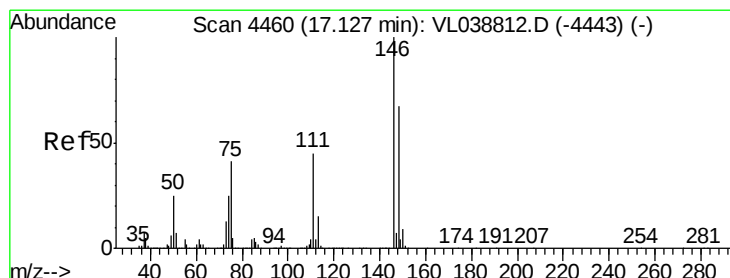
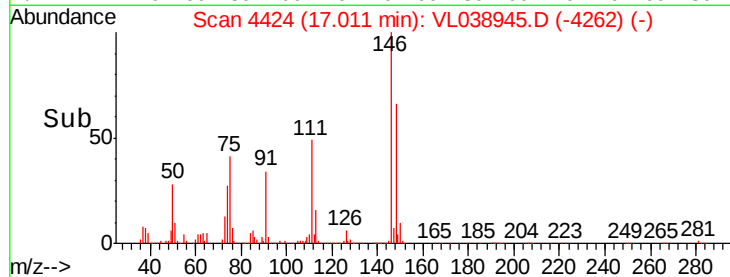
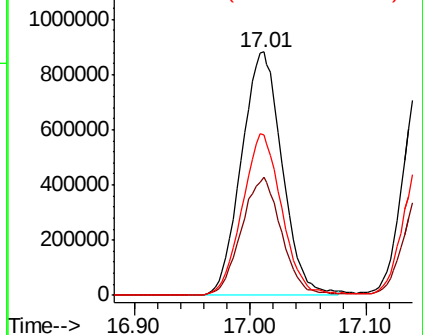
#75  
 1,3-Dichlorobenzene  
 Concen: 7.549 ppbv  
 RT: 17.01 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0419ABS01  
 Acq: 19 Apr 2022 11:58

Tot Ion:146 Resp: 2150759

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 48.1  | 23.8  | 71.2  |
| 148 | 64.4  | 31.8  | 95.4  |



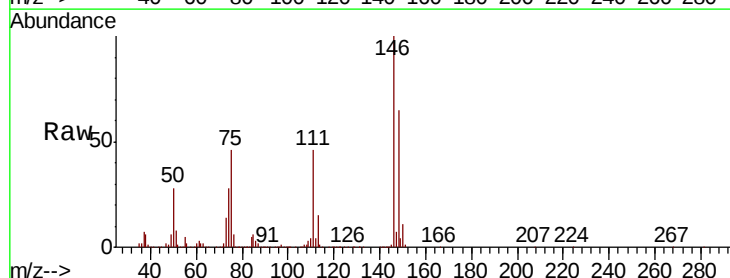
Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.10 (110.80 to 111.80): V  
 Ion 148.00 (147.70 to 148.70): V



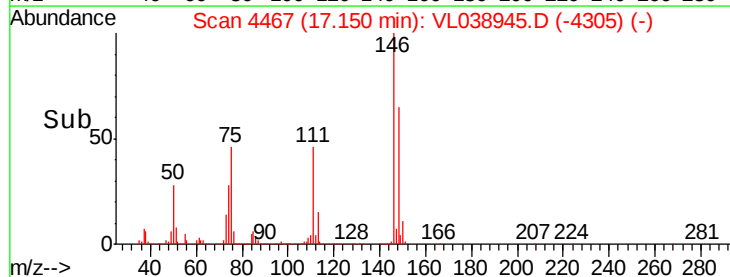
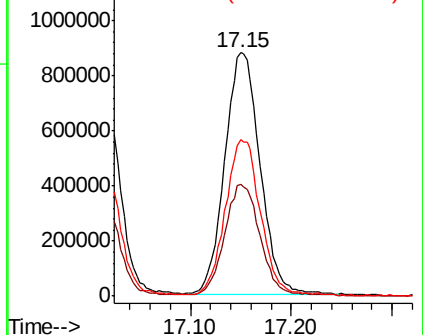
#76  
 1,4-Dichlorobenzene  
 Concen: 7.610 ppbv  
 RT: 17.15 min Scan# 4467  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

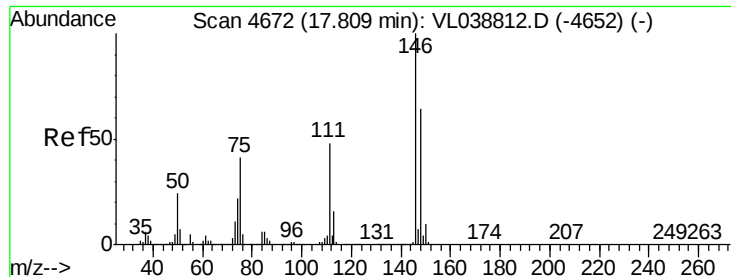
Tgt Ion:146 Resp: 2135659

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 46.6  | 23.6  | 70.8  |
| 148 | 64.7  | 33.6  | 100.6 |



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

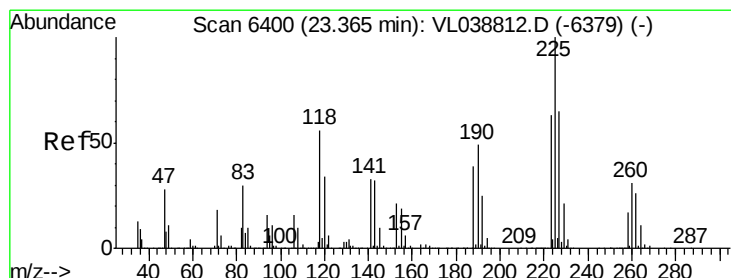
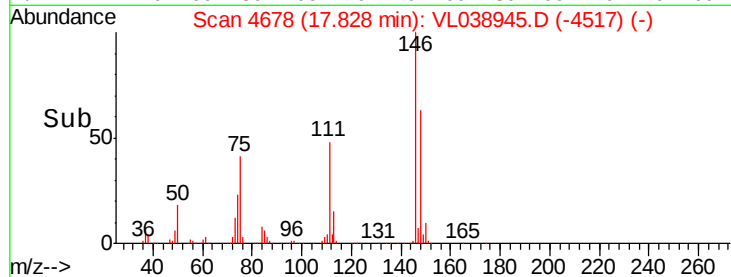
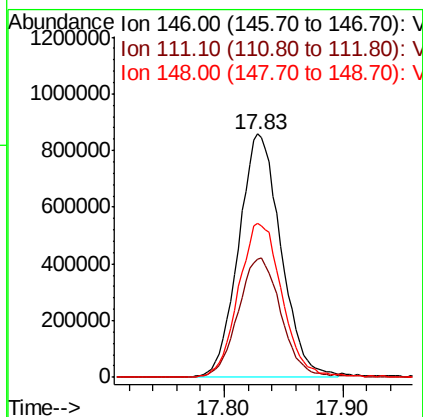
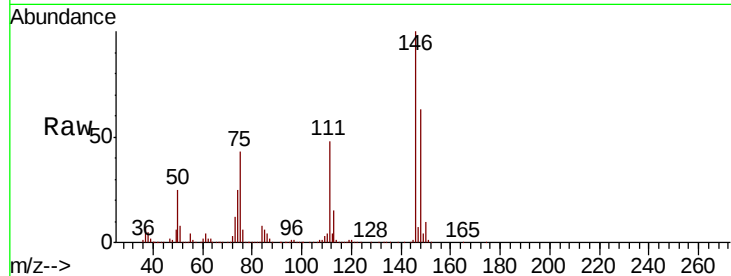




#77  
 1,2-Dichlorobenzene  
 Concen: 7.475 ppbv  
 RT: 17.83 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VL0419ABS01  
 Acq: 19 Apr 2022 11:58

Tot Ion:146 Resp: 2099294

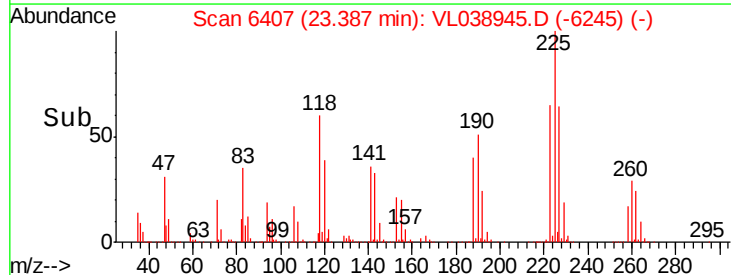
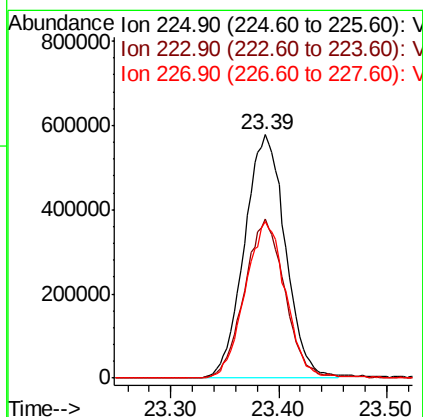
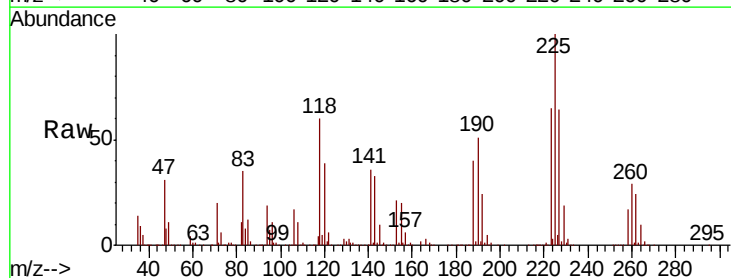
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 50.1  | 24.8  | 74.3  |
| 148 | 65.3  | 31.9  | 95.7  |

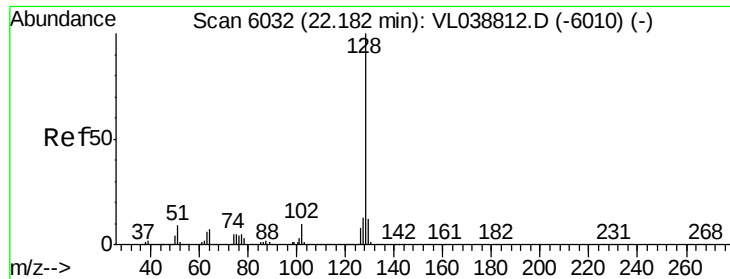


#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.868 ppbv  
 RT: 23.39 min Scan# 6407  
 Delta R.T. 0.02 min  
 Lab File: VL038945.D  
 Acq: 19 Apr 2022 11:58

Tgt Ion:225 Resp: 1524186

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 64.6  | 51.6  | 77.4  |
| 227 | 63.9  | 52.3  | 78.5  |

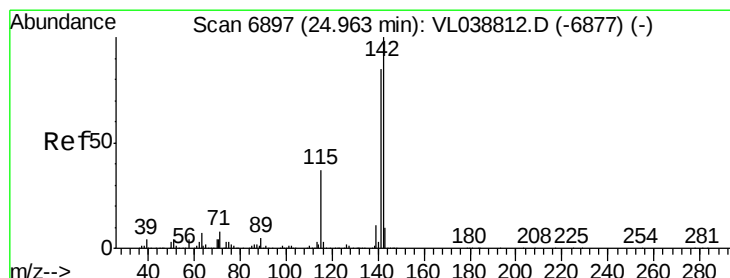
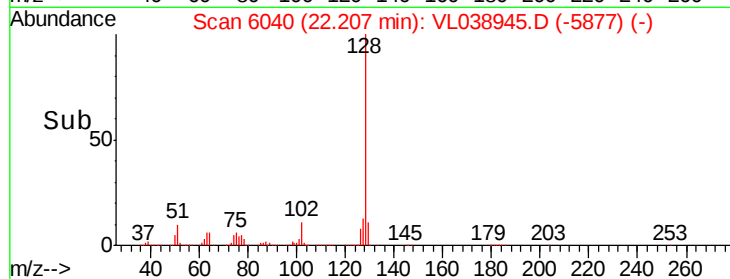
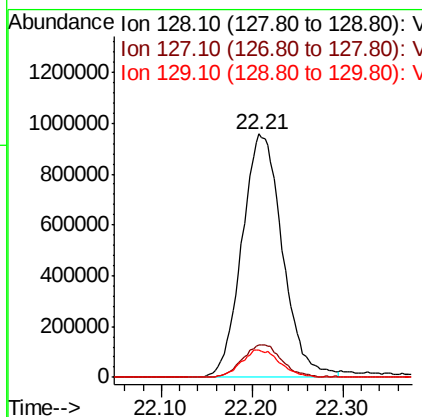
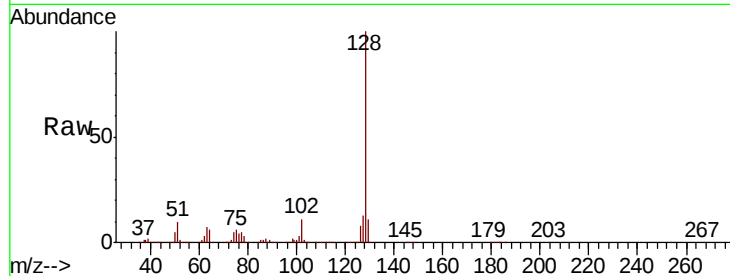




#79  
Naphthalene  
Concen: 8.061 ppbv  
RT: 22.21 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL0419ABS01  
Acq: 19 Apr 2022 11:58

Tot Ion:128 Resp: 2958938

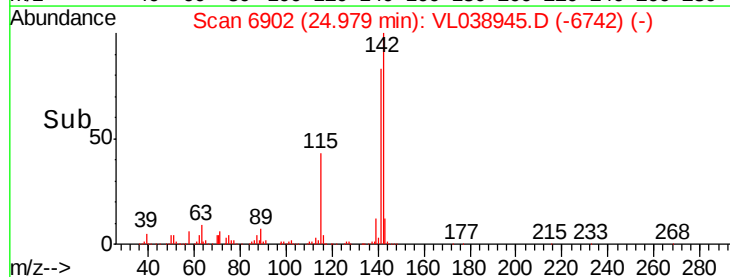
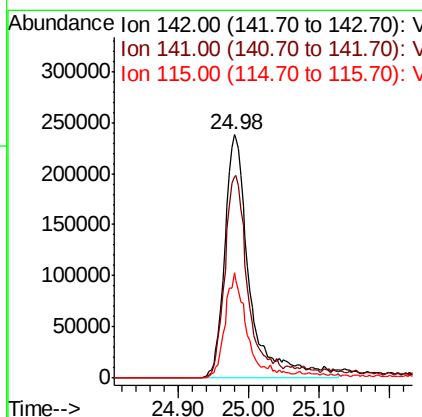
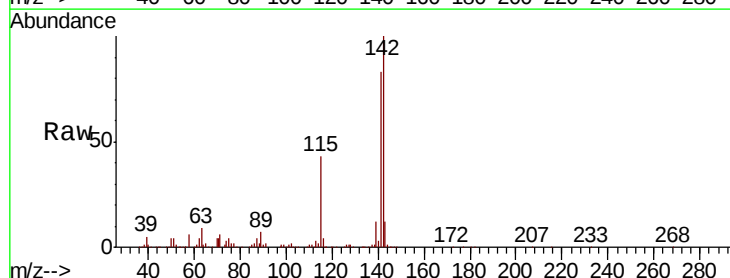
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.4  | 10.6  | 15.8  |
| 129 | 11.3  | 9.4   | 14.0  |

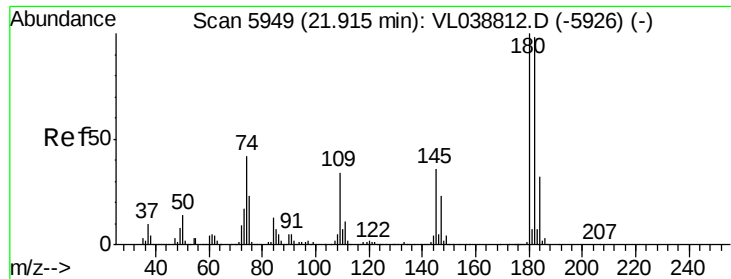


#80  
Naphthalene, 2-methyl-  
Concen: 6.556 ppbv  
RT: 24.98 min Scan# 6902  
Delta R.T.: 0.02 min  
Lab File: VL038945.D  
Acq: 19 Apr 2022 11:58

Tgt Ion:142 Resp: 593033

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 77.4  | 68.8  | 103.2 |
| 115 | 41.3  | 31.6  | 47.4  |





#81

1,2,4-Trichlorobenzene

Concen: 7.613 ppbv

RT: 21.94 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 11:58 VL0419ABS01

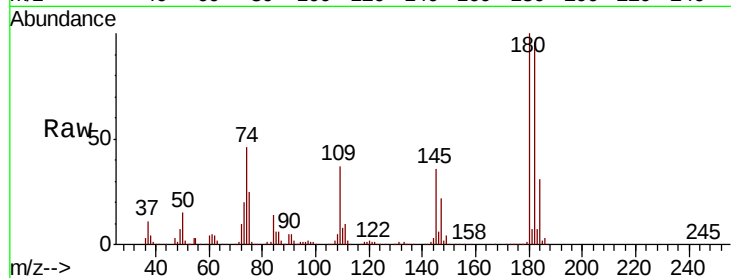
Tot Ion:180 Resp: 1635508

Ion Ratio Lower Upper

180 100

182 97.5 79.4 119.0

184 30.7 25.0 37.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

