

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100521\  
 Data File : VL037788.D  
 Acq On : 6 Oct 2021 00:30  
 Operator : SY/AP  
 Sample : M4012-14  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P25

Quant Time: Oct 06 04:49:16 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL100421AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
 QLast Update : Mon Oct 04 17:43:54 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1251507  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3594782  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3257373  | 10.00 | ppbv  | -0.03    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 2247681  | 9.87     | ppbv | -0.04  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.70% |

| Target Compounds               |       |     |         |               | Qvalue |
|--------------------------------|-------|-----|---------|---------------|--------|
| 2) Dichlorodifluoromethane     | 3.04  | 85  | 13625   | 0.068 ppbv    | 95     |
| 3) Chlorodifluoromethane       | 2.95  | 51  | 187911  | 0.781 ppbv #  | 73     |
| 4) Chloromethane               | 3.13  | 50  | 5010    | 0.057 ppbv #  | 87     |
| 9) Propene                     | 3.00  | 41  | 52589   | 0.594 ppbv    | 85     |
| 10) Heptane                    | 8.09  | 43  | 23692   | 0.118 ppbv #  | 21     |
| 11) Trichlorofluoromethane     | 3.93  | 101 | 38444   | 0.216 ppbv    | 92     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47  | 101 | 8511    | 0.063 ppbv    | 94     |
| 13) Ethanol                    | 3.59  | 45  | 2773541 | 383.302 ppbv  | 79     |
| 15) Acetone                    | 3.83  | 43  | 2569677 | 22.872 ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.32  | 39  | 2768    | 0.034 ppbv #  | 11     |
| 17) tert-Butyl alcohol         | 4.28  | 59  | 81896   | 0.708 ppbv #  | 89     |
| 19) Isopropyl Alcohol          | 3.95  | 45  | 796927  | 11.402 ppbv # | 90     |
| 20) Methylene Chloride         | 4.33  | 84  | 157421  | 2.773 ppbv    | 96     |
| 21) Allyl Chloride             | 4.31  | 41  | 4059    | 0.041 ppbv #  | 1      |
| 23) Vinyl Acetate              | 5.07  | 43  | 8700    | 0.052 ppbv #  | 1      |
| 25) Ethyl Acetate              | 5.66  | 43  | 191282  | 0.607 ppbv #  | 96     |
| 26) Hexane                     | 5.66  | 57  | 132584  | 0.854 ppbv #  | 77     |
| 27) Carbon Disulfide           | 4.53  | 76  | 15075   | 0.110 ppbv #  | 57     |
| 29) Chloroform                 | 5.73  | 83  | 68658   | 0.309 ppbv #  | 80     |
| 30) Cyclohexane                | 7.10  | 84  | 5776    | 0.044 ppbv #  | 1      |
| 34) 2-Butanone                 | 5.22  | 43  | 190464  | 1.312 ppbv    | 94     |
| 35) Carbon Tetrachloride       | 6.99  | 117 | 8982    | 0.044 ppbv #  | 36     |
| 36) Benzene                    | 6.86  | 78  | 84783   | 0.276 ppbv    | 97     |
| 37) 1,2-Dichloroethane         | 6.28  | 62  | 4425    | 0.031 ppbv #  | 78     |
| 39) 1,2-Dichloropropane        | 7.15  | 63  | 834846  | 7.229 ppbv #  | 28     |
| 41) Tetrahydrofuran            | 6.03  | 42  | 23444   | 0.330 ppbv #  | 81     |
| 42) Bromodichloromethane       | 7.76  | 83  | 4788    | 0.023 ppbv #  | 63     |
| 44) 2,2,4-Trimethylpentane     | 7.84  | 57  | 37665   | 0.073 ppbv #  | 43     |
| 50) 4-Methyl-2-Pentanone       | 8.73  | 43  | 109692  | 0.581 ppbv    | 99     |
| 51) 2-Hexanone                 | 10.10 | 43  | 2298    | 0.027 ppbv #  | 29     |
| 52) Tetrachloroethene          | 11.20 | 164 | 402952  | 3.373 ppbv    | 95     |
| 53) Toluene                    | 9.78  | 91  | 1415683 | 4.160 ppbv    | 100    |
| 58) Ethyl Benzene              | 12.68 | 91  | 222357  | 0.508 ppbv    | 98     |
| 59) m/p-Xylene                 | 12.96 | 91  | 37851   | 0.101 ppbv #  | 30     |
| 60) o-Xylene                   | 13.66 | 91  | 184535  | 0.513 ppbv    | 98     |
| 61) Styrene                    | 13.50 | 104 | 49280   | 0.283 ppbv #  | 55     |
| 66) Benzyl Chloride            | 16.94 | 91  | 831     | 0.038 ppbv #  | 81     |
| 69) p-Isopropyltoluene         | 17.61 | 119 | 13945   | 0.029 ppbv #  | 48     |
| 72) 4-Ethyltoluene             | 15.80 | 105 | 9831    | 0.024 ppbv #  | 55     |
| 73) 1,3,5-Trimethylbenzene     | 15.96 | 105 | 8362    | 0.023 ppbv #  | 80     |
| 74) 1,2,4-Trimethylbenzene     | 16.73 | 105 | 148105  | 0.380 ppbv #  | 75     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100521\  
Data File : VL037788.D  
Acq On : 6 Oct 2021 00:30  
Operator : SY/AP  
Sample : M4012-14  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

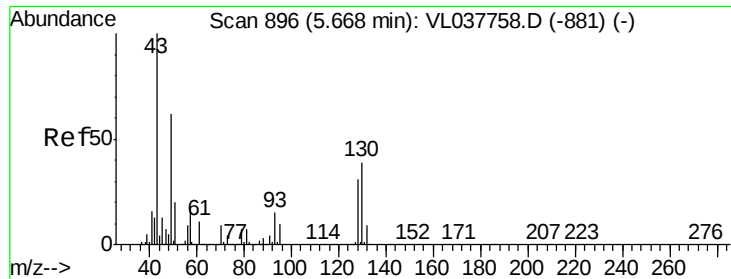
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

Quant Time: Oct 06 04:49:16 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL100421AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Oct 04 17:43:54 2021  
QLast Update : Mon Oct 04 17:43:54 2021  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 80) Naphthalene,2-methyl- | 24.95 | 142  | 7384     | 0.115 | ppbv  | 95       |

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

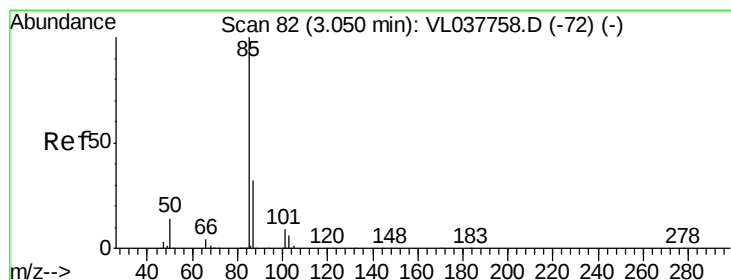
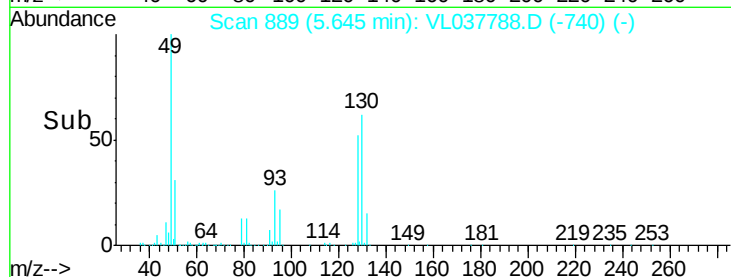
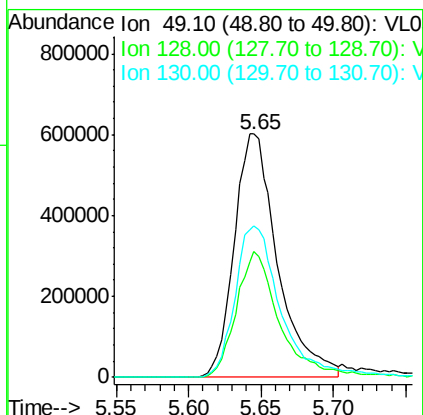
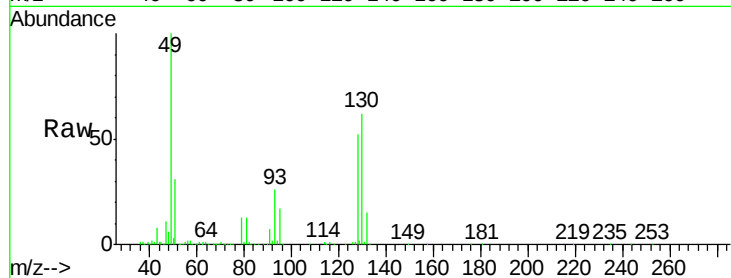




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.65 min Scan# 889  
 Delta R.T. -0.02 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

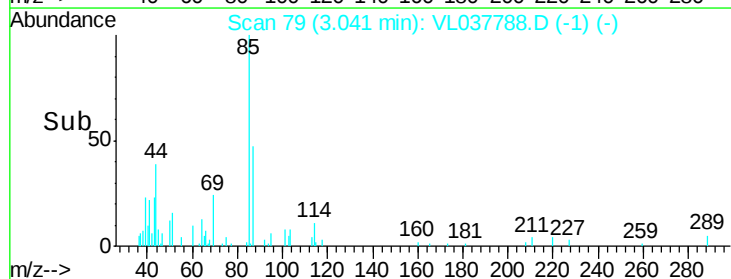
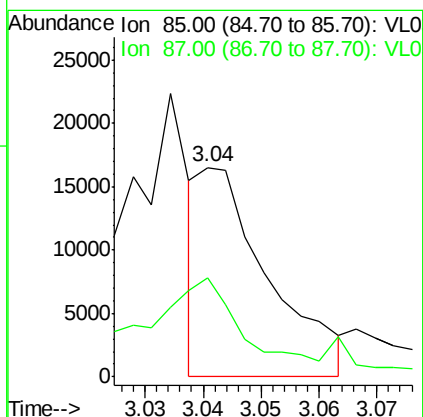
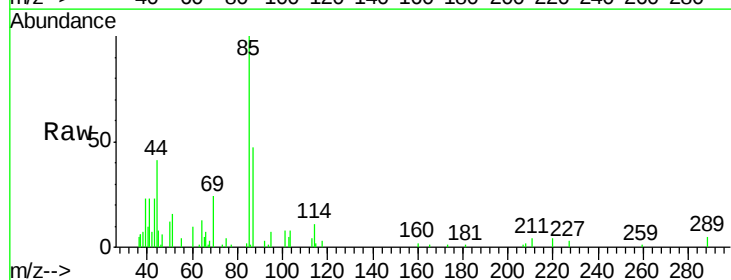
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P25

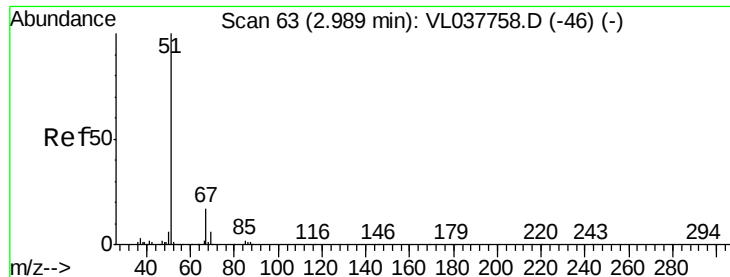
Tgt Ion: 49 Resp: 1251507  
 Ion Ratio Lower Upper  
 49 100  
 128 53.7 27.1 81.3  
 130 67.4 33.2 99.6



#2  
 Dichlorodifluoromethane  
 Concen: 0.068 ppbv  
 RT: 3.04 min Scan# 79  
 Delta R.T. -0.01 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

Tgt Ion: 85 Resp: 13625  
 Ion Ratio Lower Upper  
 85 100  
 87 34.9 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.781 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.04 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

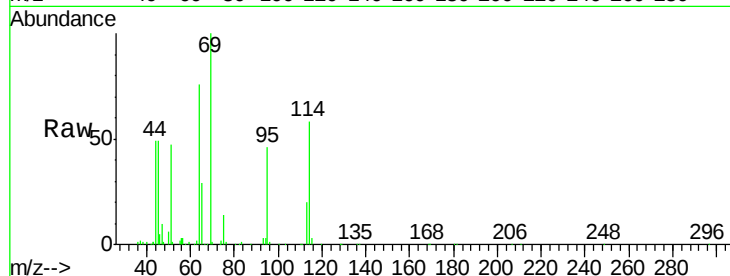
C0P25

Tgt Ion: 51 Resp: 187911

Ion Ratio Lower Upper

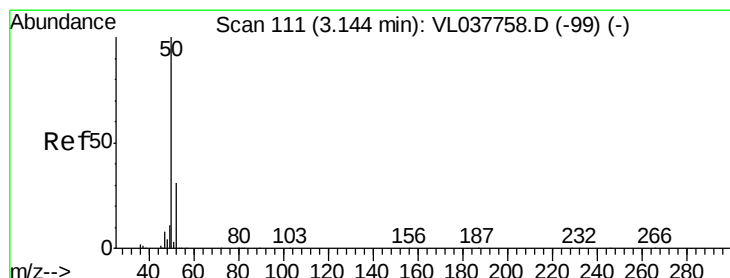
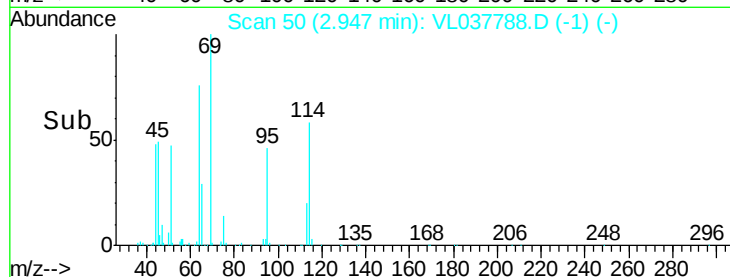
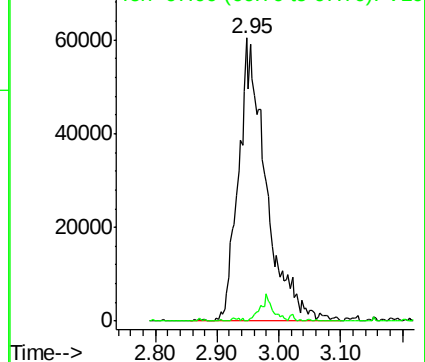
51 100

67 5.1 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037788.D

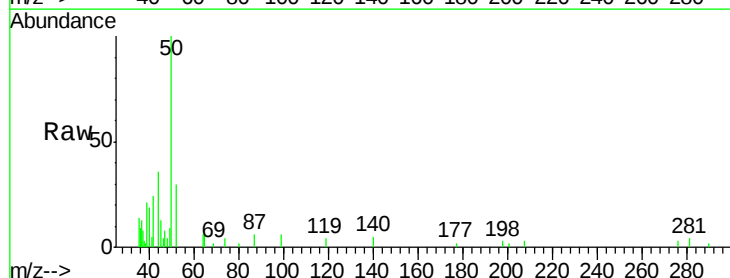
Acq: 6 Oct 2021 00:30

Tgt Ion: 50 Resp: 5010

Ion Ratio Lower Upper

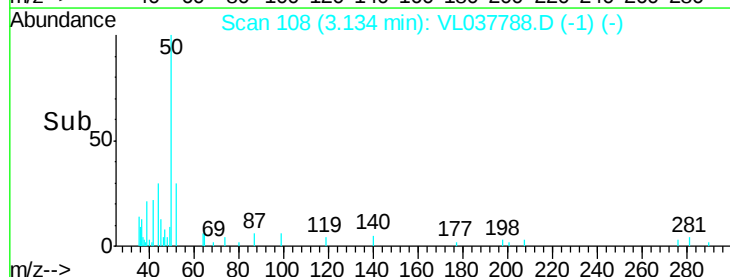
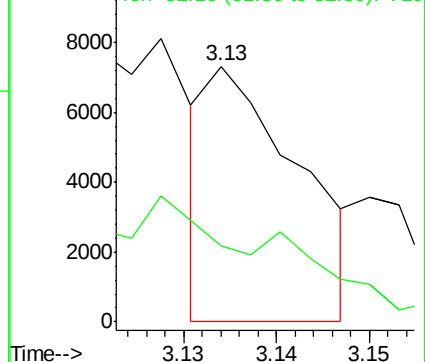
50 100

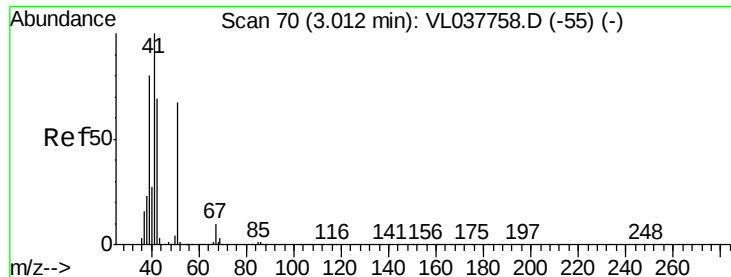
52 23.5 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.594 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

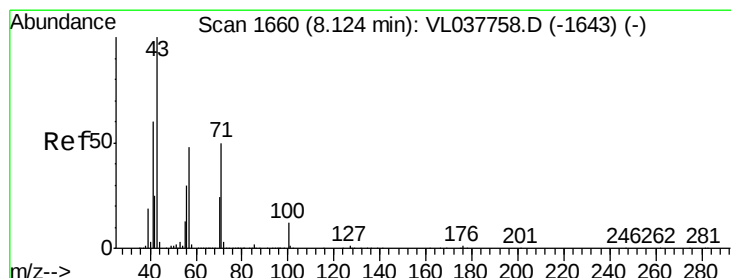
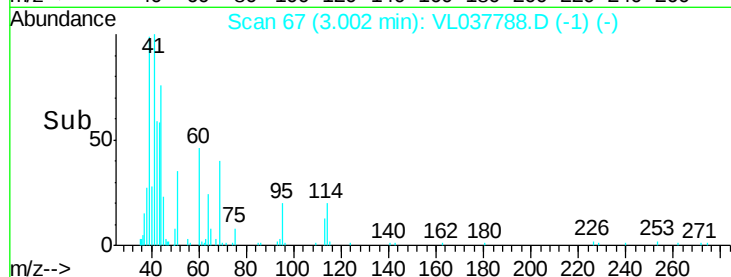
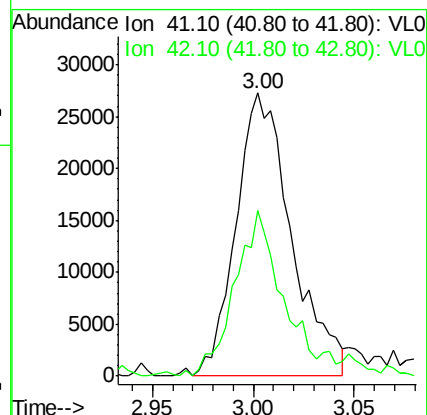
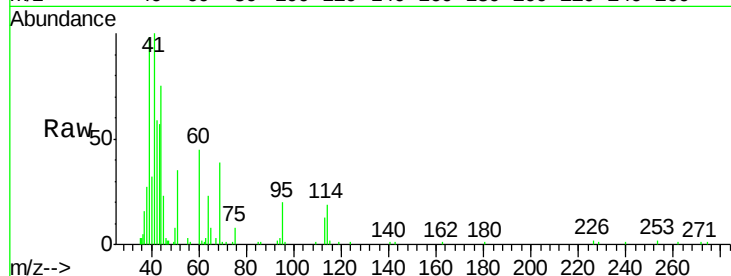
C0P25

Tgt Ion: 41 Resp: 52589

Ion Ratio Lower Upper

41 100

42 55.6 54.2 81.2



#10

Heptane

Concen: 0.118 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.03 min

Lab File: VL037788.D

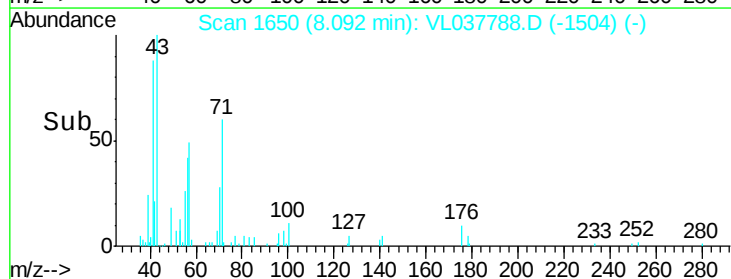
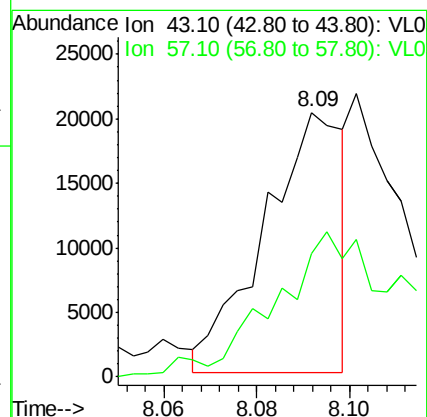
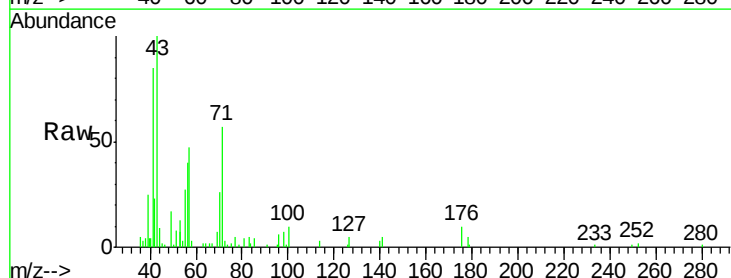
Acq: 6 Oct 2021 00:30

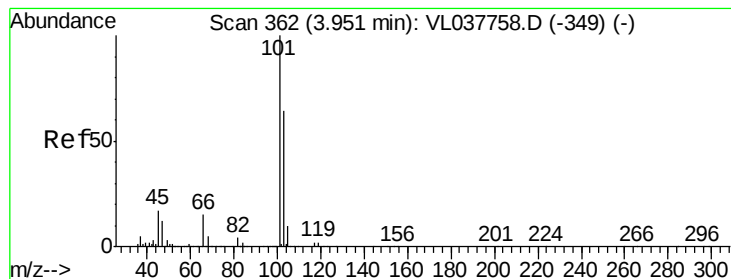
Tgt Ion: 43 Resp: 23692

Ion Ratio Lower Upper

43 100

57 104.5 40.0 60.0#





#11

Trichlorofluoromethane

Concen: 0.216 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

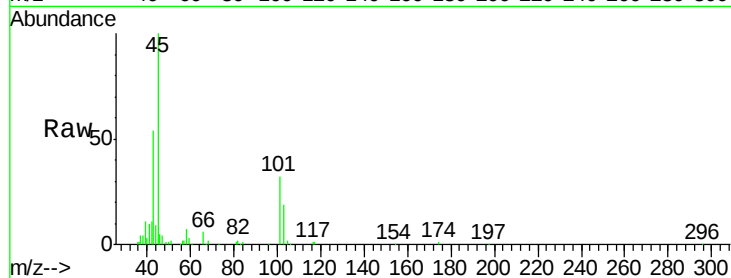
C0P25

Tgt Ion:101 Resp: 38444

Ion Ratio Lower Upper

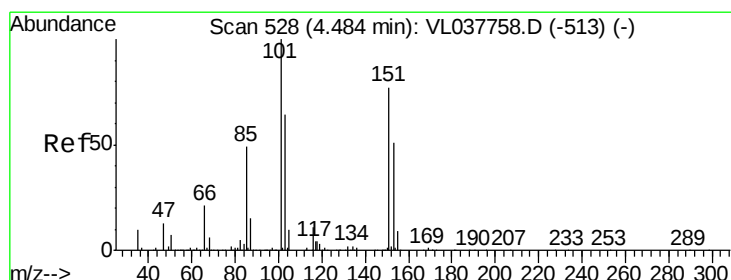
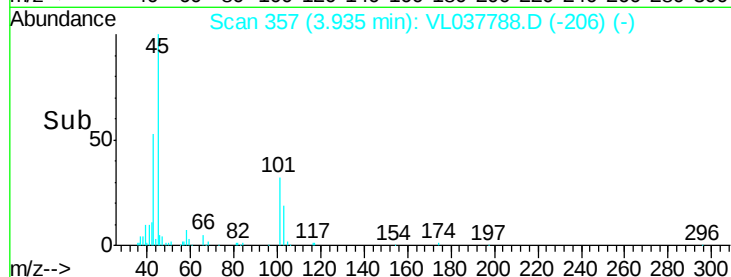
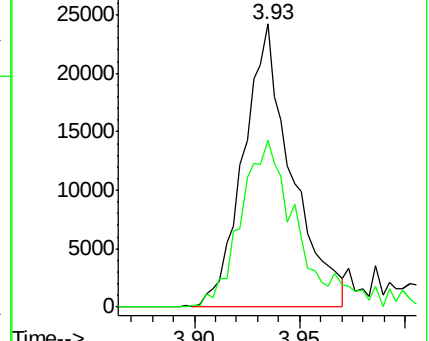
101 100

103 58.3 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.02 min

Lab File: VL037788.D

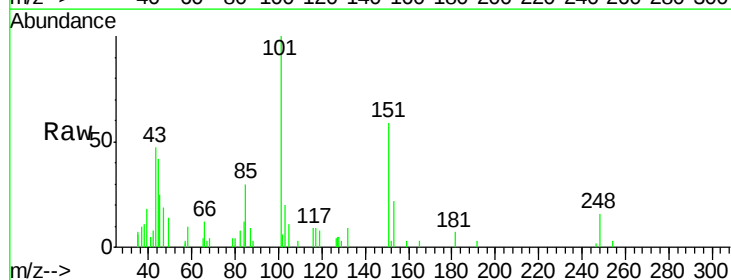
Acq: 6 Oct 2021 00:30

Tgt Ion:101 Resp: 8511

Ion Ratio Lower Upper

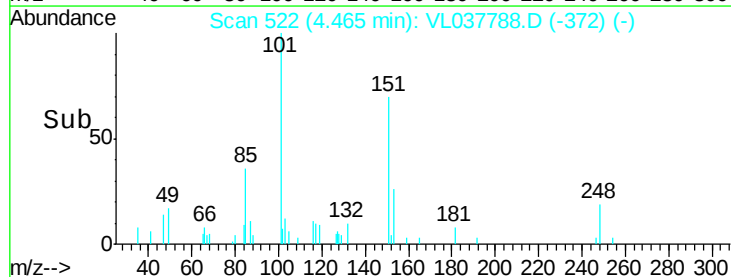
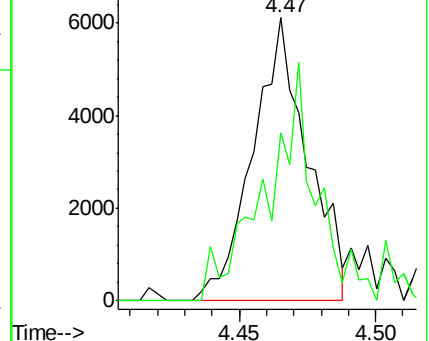
101 100

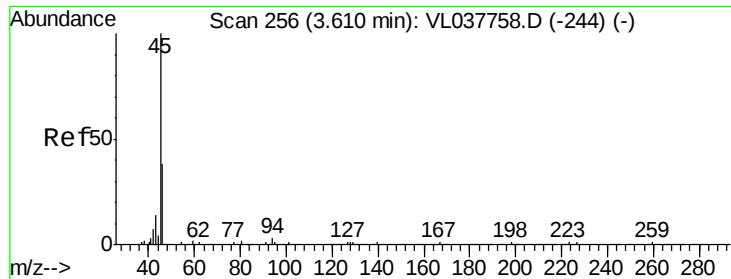
151 83.8 62.9 94.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 383.302 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

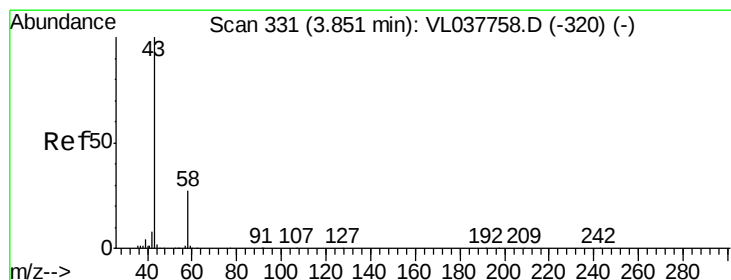
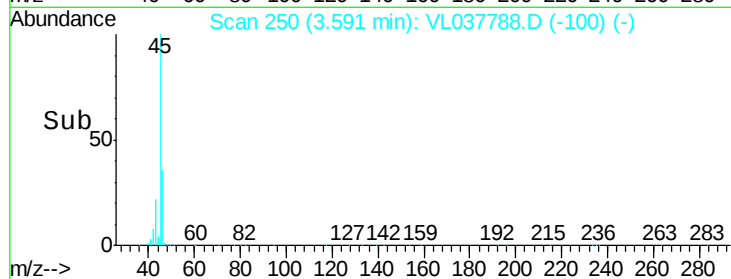
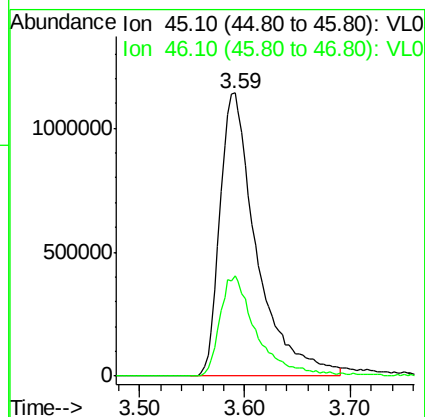
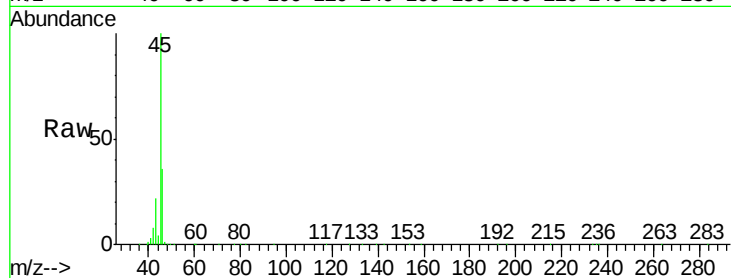
C0P25

Tgt Ion: 45 Resp: 2773541

Ion Ratio Lower Upper

45 100

46 35.9 20.2 81.0



#15

Acetone

Concen: 22.872 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL037788.D

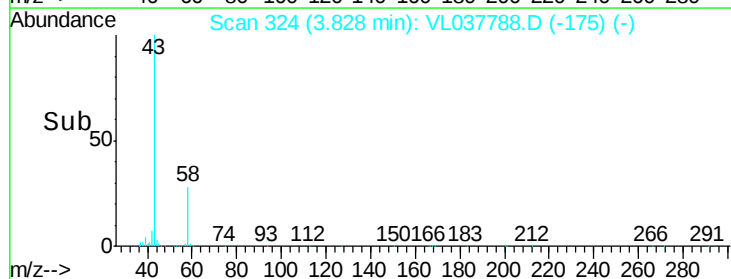
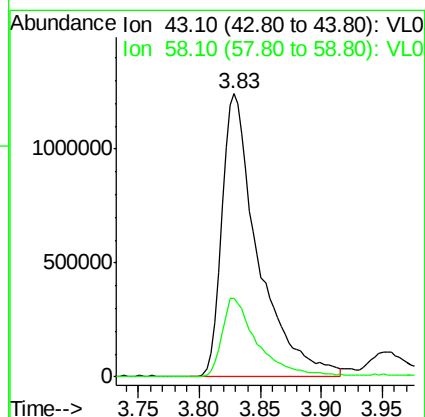
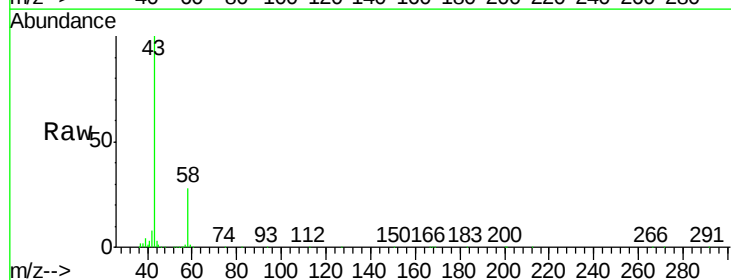
Acq: 6 Oct 2021 00:30

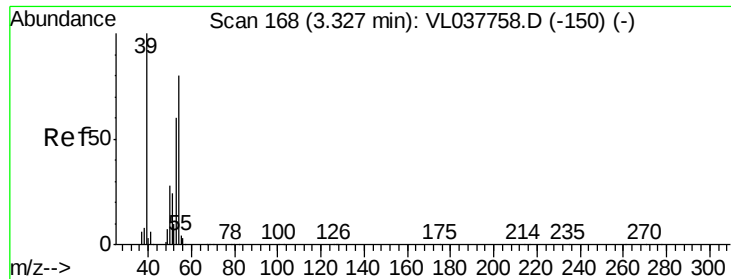
Tgt Ion: 43 Resp: 2569677

Ion Ratio Lower Upper

43 100

58 27.7 23.0 34.6





#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

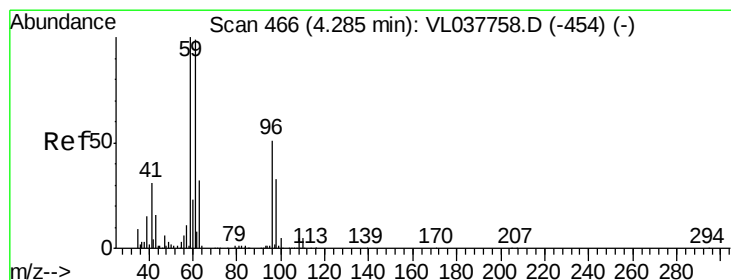
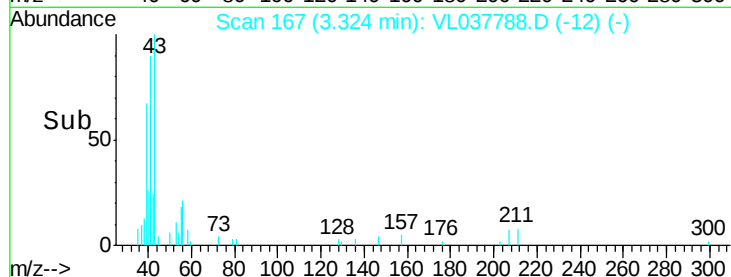
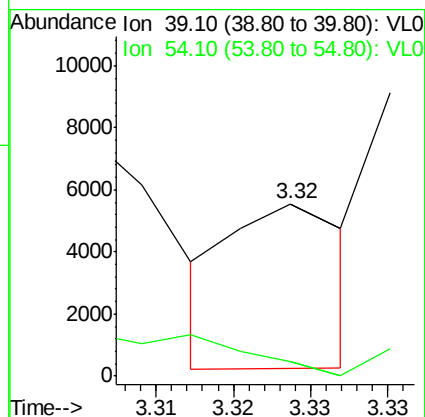
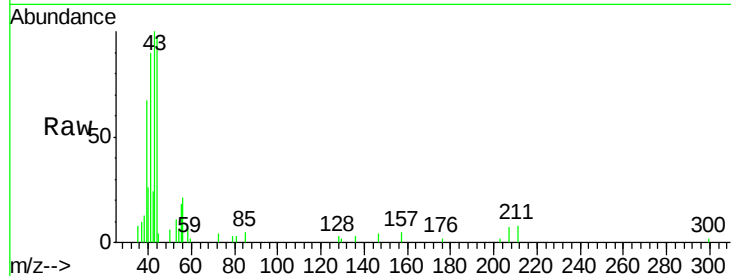
C0P25

Tgt Ion: 39 Resp: 2768

Ion Ratio Lower Upper

39 100

54 0.0 61.7 92.5#



#17

tert-Butyl alcohol

Concen: 0.708 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL037788.D

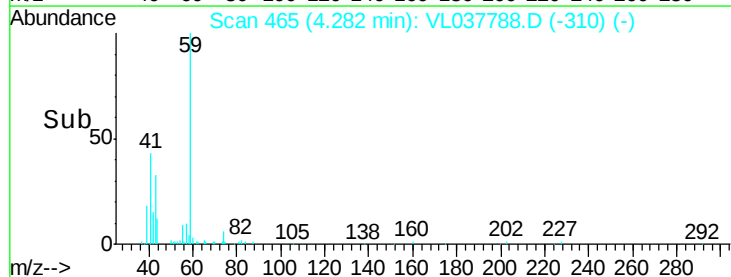
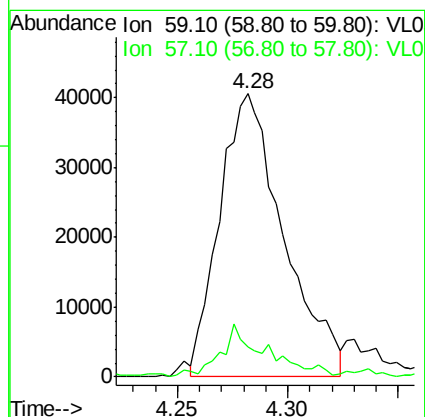
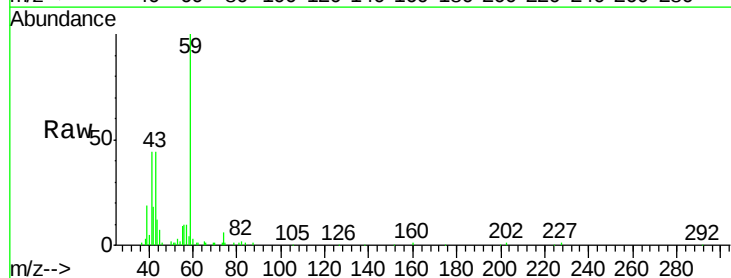
Acq: 6 Oct 2021 00:30

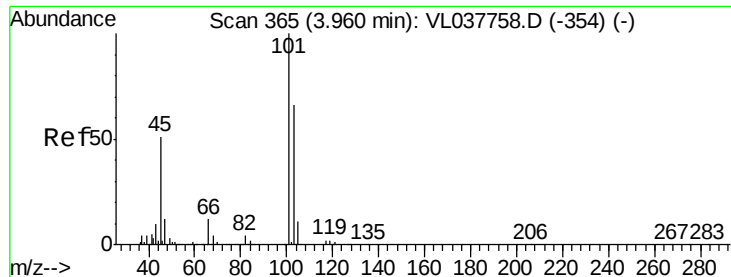
Tgt Ion: 59 Resp: 81896

Ion Ratio Lower Upper

59 100

57 14.8 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 11.402 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

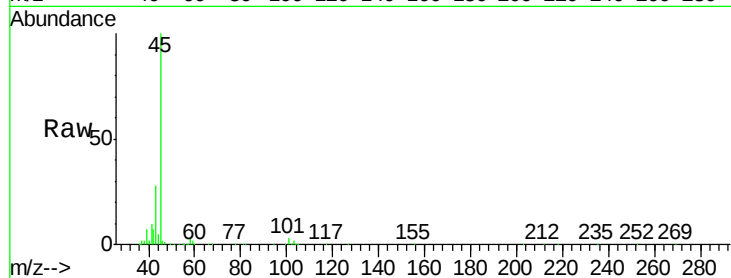
C0P25

Tgt Ion: 45 Resp: 796927

Ion Ratio Lower Upper

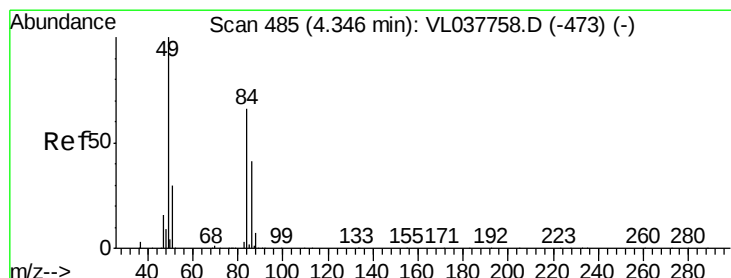
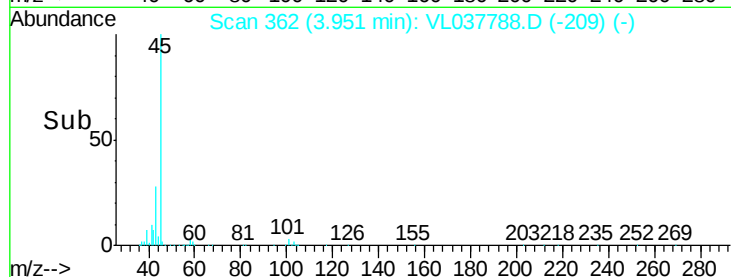
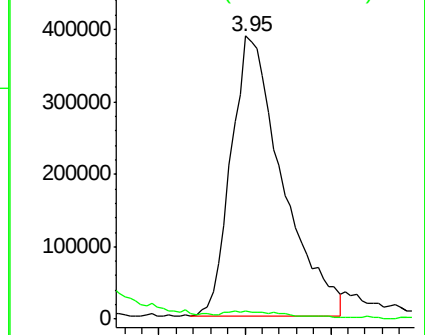
45 100

58 5.2 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.773 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Tgt Ion: 84 Resp: 157421

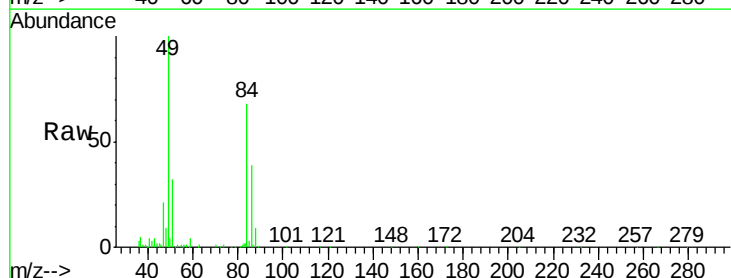
Ion Ratio Lower Upper

84 100

49 146.0 120.7 181.1

51 45.8 36.2 54.4

86 56.8 49.6 74.4

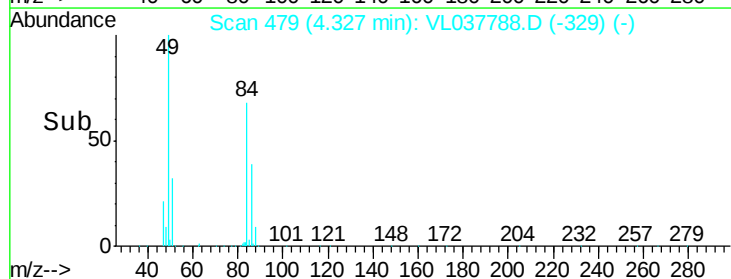
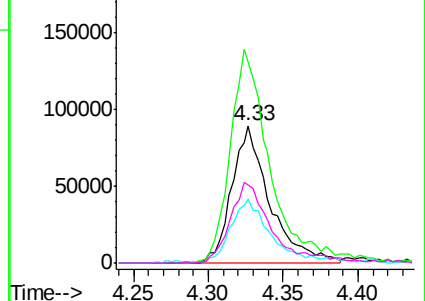


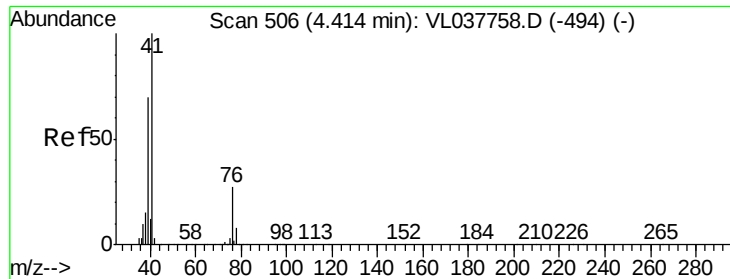
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.041 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.10 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

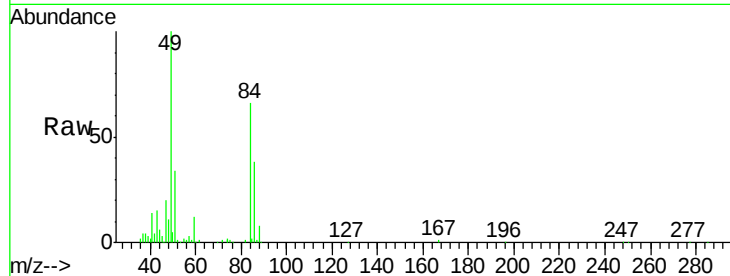
Tgt Ion: 41 Resp: 4059

Ion Ratio Lower Upper

41 100

76 451.2 22.4 33.6#

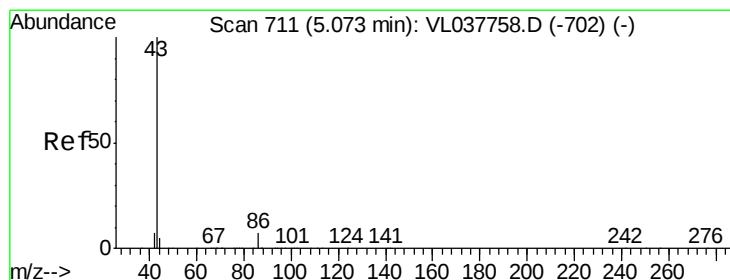
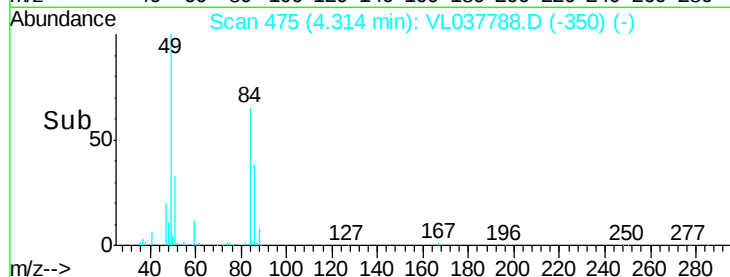
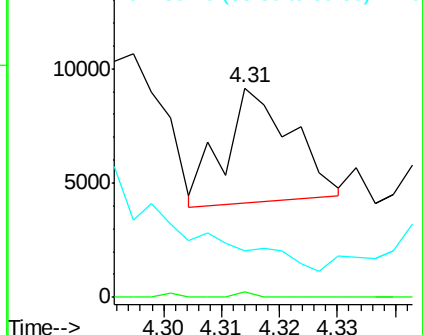
39 108.2 58.0 87.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.052 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Tgt Ion: 43 Resp: 8700

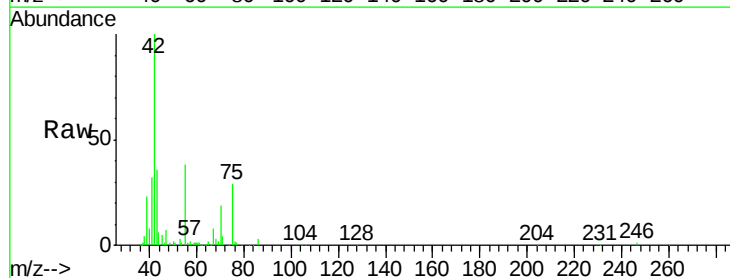
Ion Ratio Lower Upper

43 100

86 8.5 5.0 7.4#

42 184.4 7.4 11.0#

44 20.9 3.8 5.6#

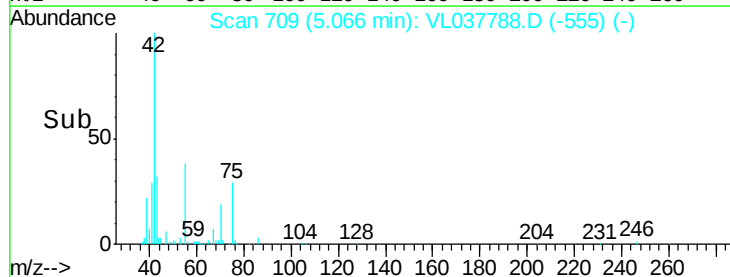
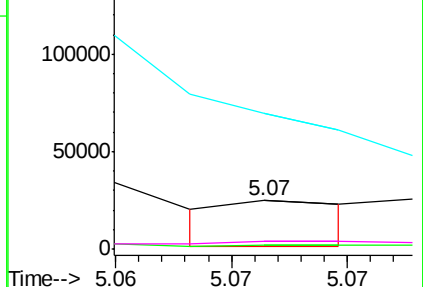


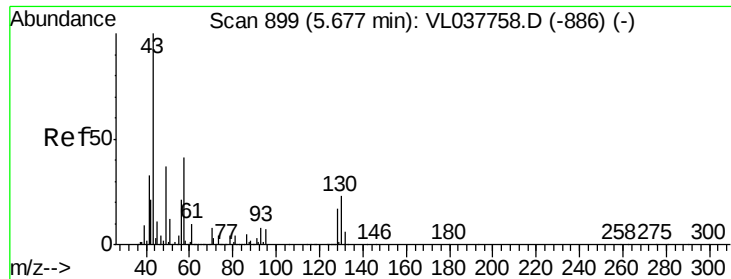
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

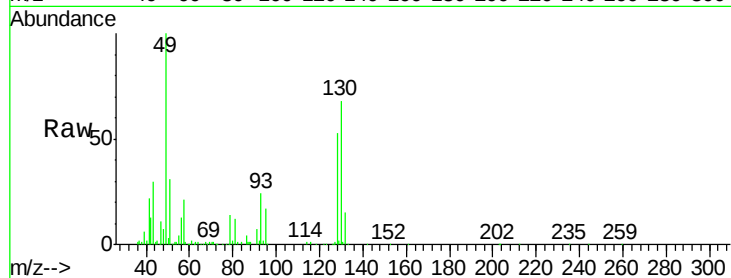




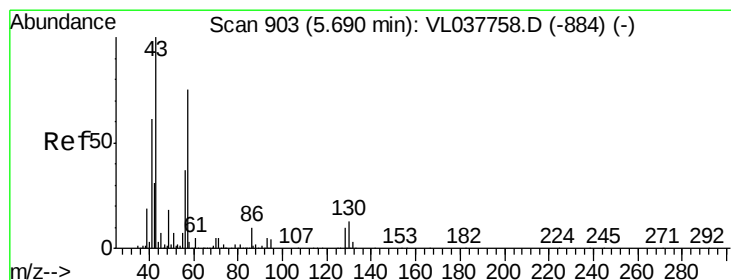
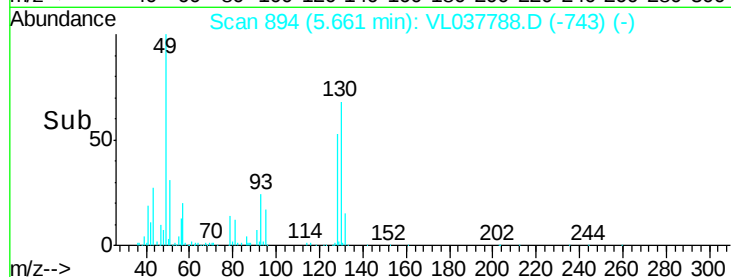
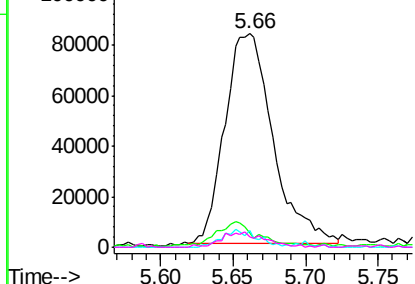
#25  
Ethyl Acetate  
Concen: 0.607 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. -0.02 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 191282 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 11.1  | 8.1   | 12.1   |
| 61       | 7.1   | 7.5   | 11.3#  |
| 70       | 6.5   | 5.9   | 8.9    |

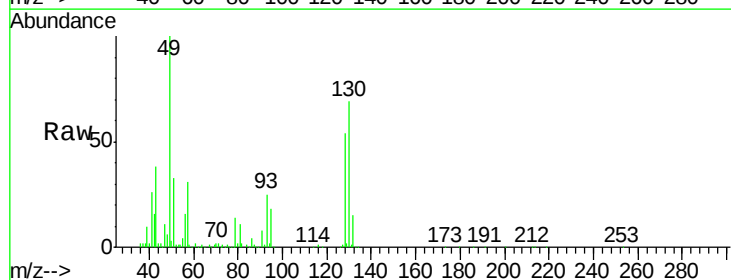


Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 45.10 (44.80 to 45.80): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 70.10 (69.80 to 70.80): VL0

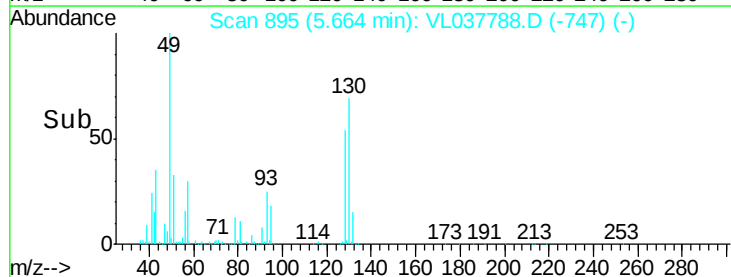
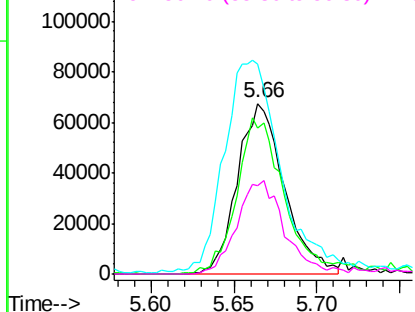


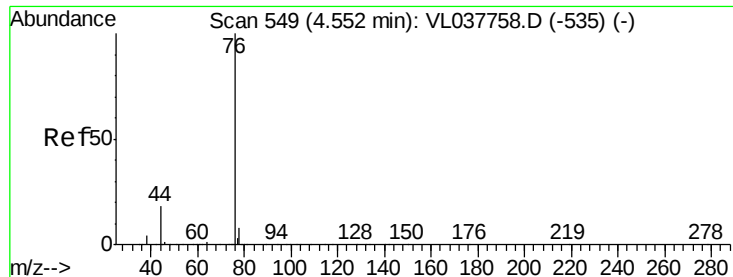
#26  
Hexane  
Concen: 0.854 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 132584 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 98.5  | 69.6  | 104.4  |
| 43       | 164.5 | 171.4 | 257.0# |
| 56       | 55.5  | 42.0  | 63.0   |



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.110 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

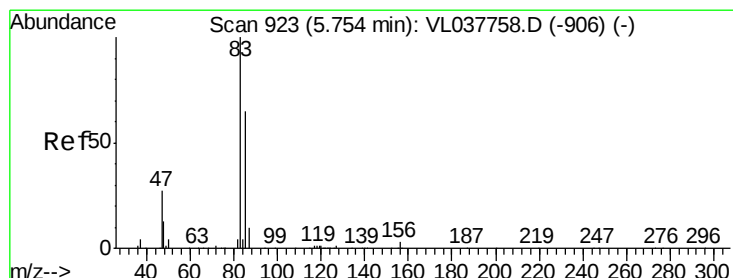
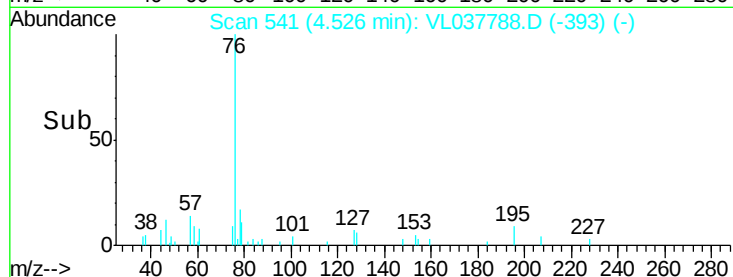
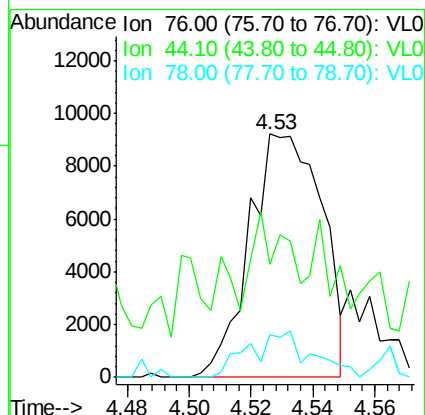
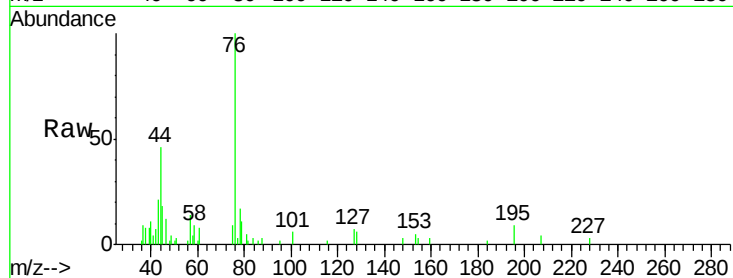
Tgt Ion: 76 Resp: 15075

Ion Ratio Lower Upper

76 100

44 43.3 14.3 21.5#

78 15.9 7.8 11.6#



#29

Chloroform

Concen: 0.309 ppbv

RT: 5.73 min Scan# 914

Delta R.T. -0.03 min

Lab File: VL037788.D

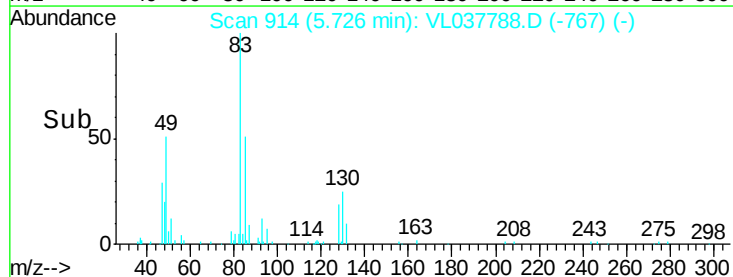
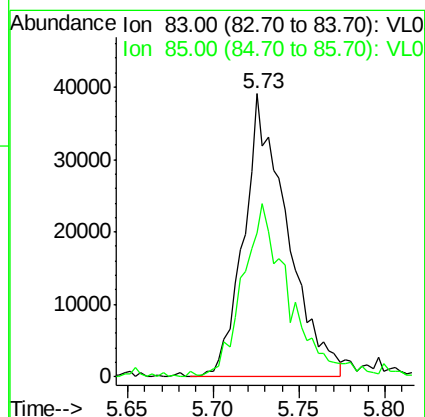
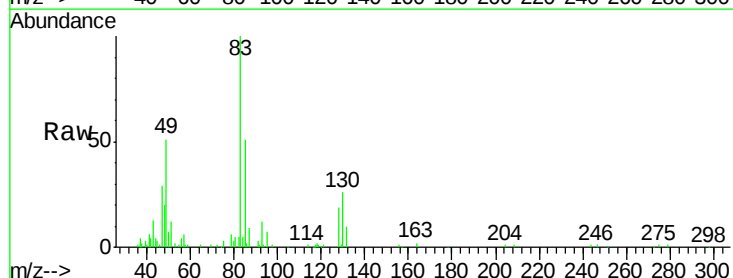
Acq: 6 Oct 2021 00:30

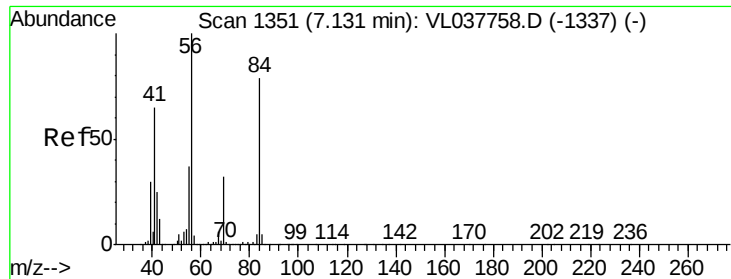
Tgt Ion: 83 Resp: 68658

Ion Ratio Lower Upper

83 100

85 48.8 51.8 77.8#

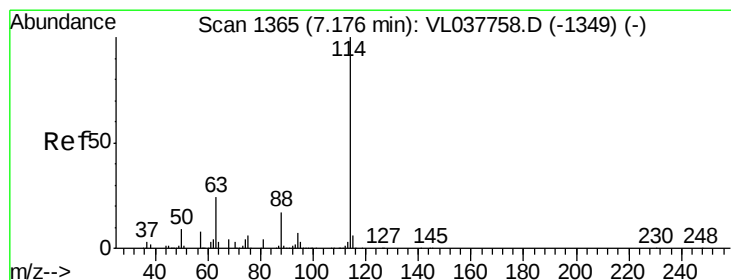
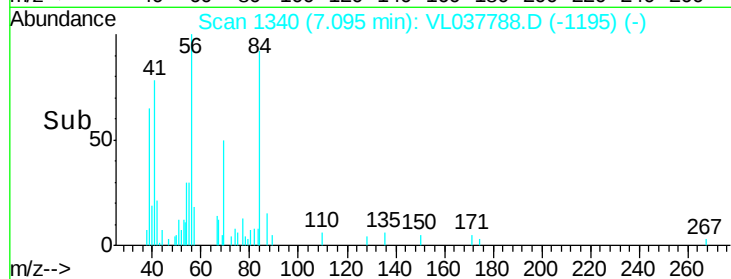
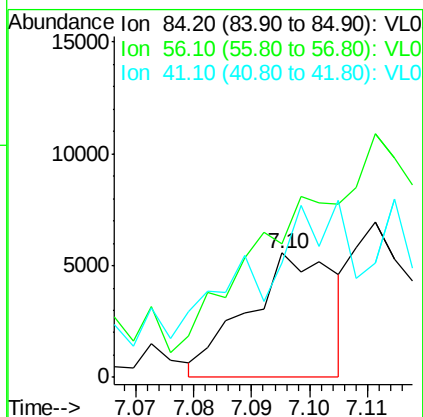
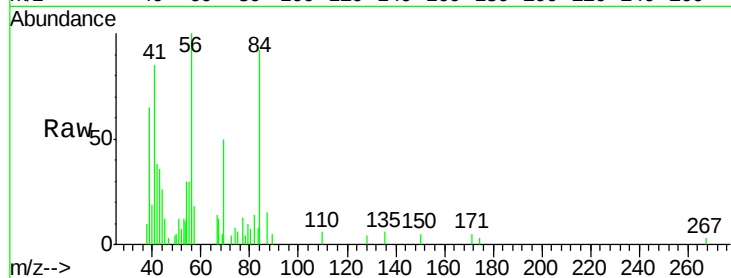




#30  
Cyclohexane  
Concen: 0.044 ppbv  
RT: 7.10 min Scan# 1340  
Delta R.T. -0.04 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

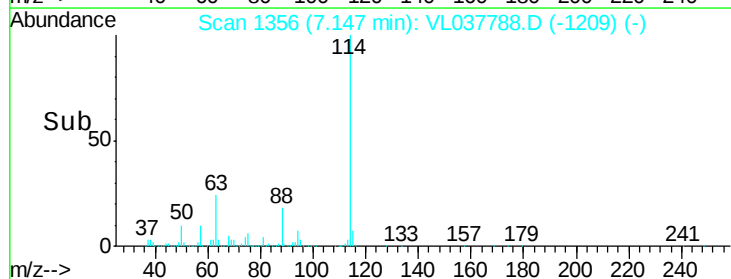
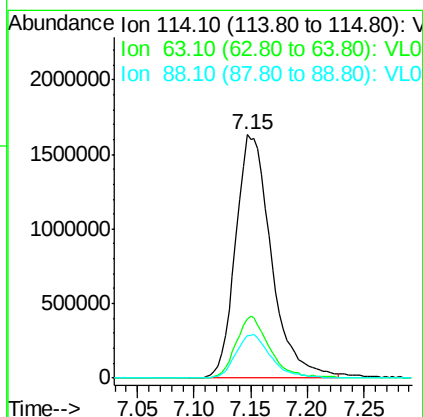
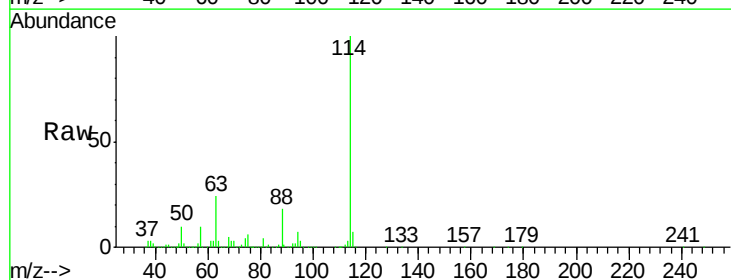
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

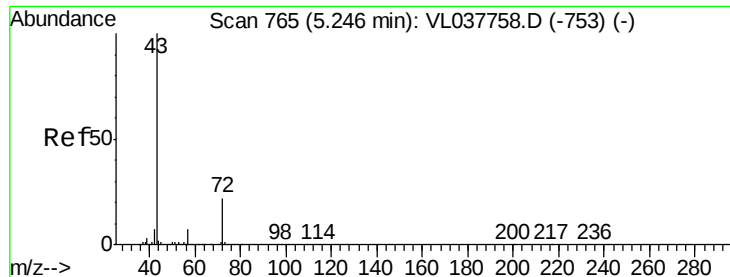
Tgt Ion: 84 Resp: 5776  
Ion Ratio Lower Upper  
84 100  
56 0.0 113.0 169.4#  
41 0.0 69.1 103.7#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.15 min Scan# 1356  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Tgt Ion: 114 Resp: 3594782  
Ion Ratio Lower Upper  
114 100  
63 24.0 19.4 29.2  
88 18.0 14.4 21.6

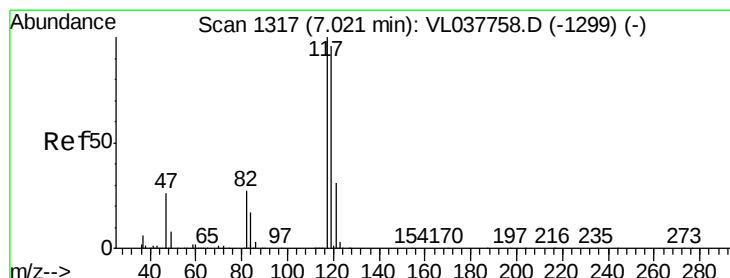
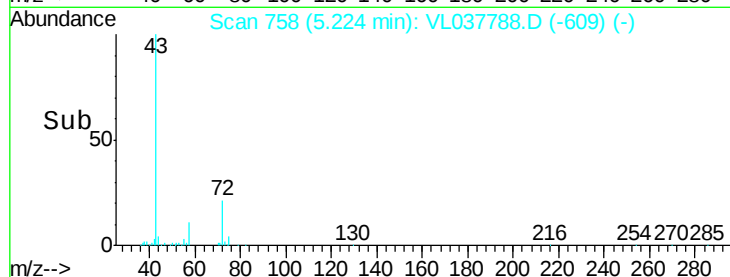
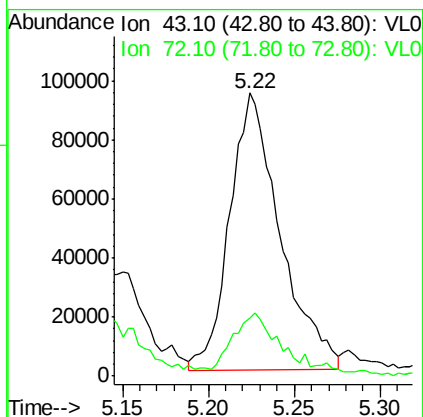
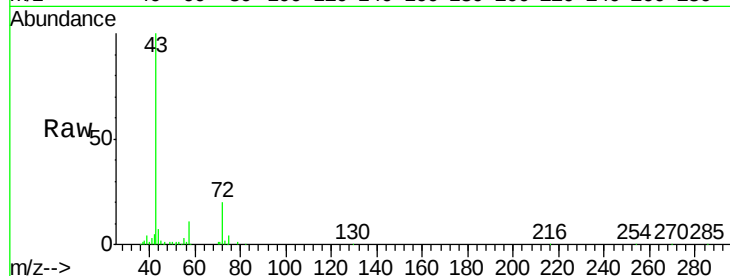




#34  
2-Butanone  
Concen: 1.312 ppbv  
RT: 5.22 min Scan# 758  
Delta R.T. -0.02 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

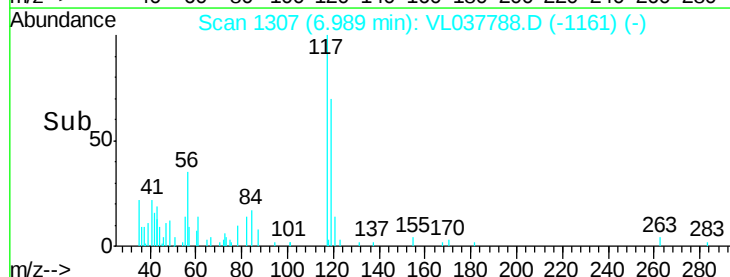
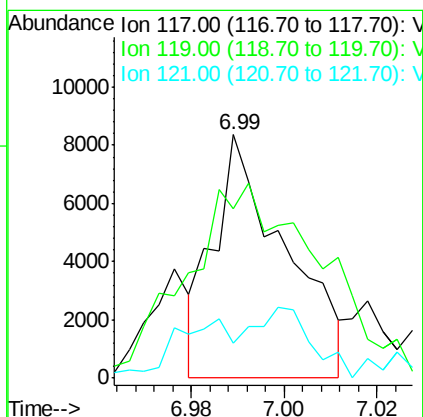
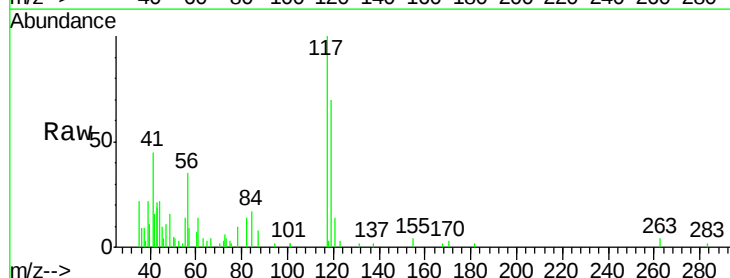
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

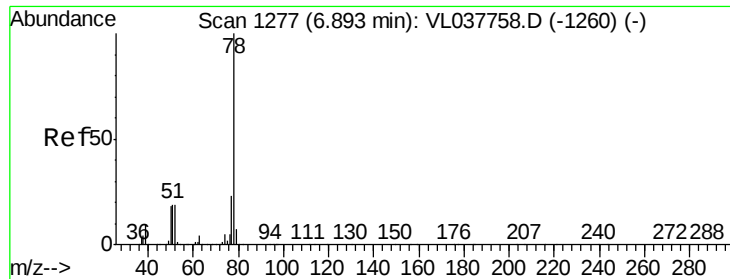
Tgt Ion: 43 Resp: 190464  
Ion Ratio Lower Upper  
43 100  
72 25.6 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.044 ppbv  
RT: 6.99 min Scan# 1307  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Tgt Ion: 117 Resp: 8982  
Ion Ratio Lower Upper  
117 100  
119 28.6 76.5 114.7#  
121 4.3 24.9 37.3#





#36

Benzene

Concen: 0.276 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

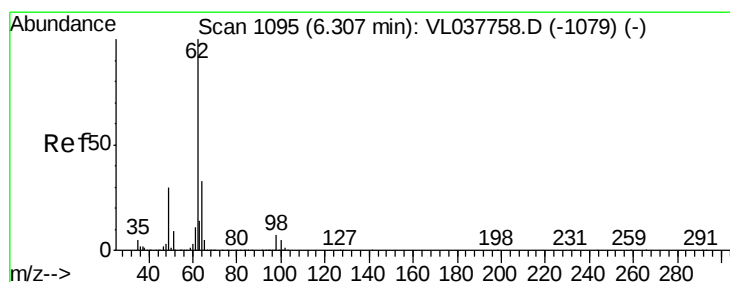
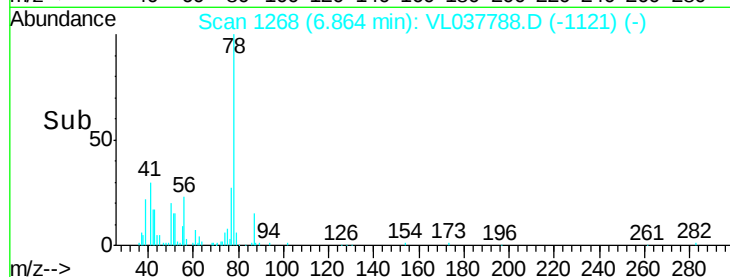
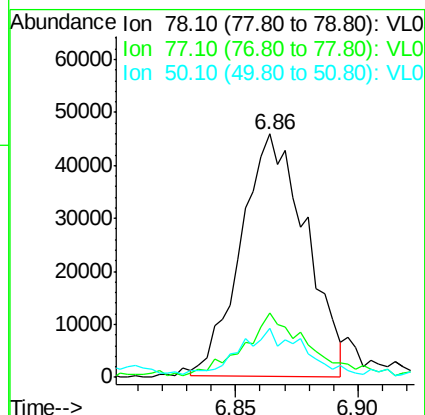
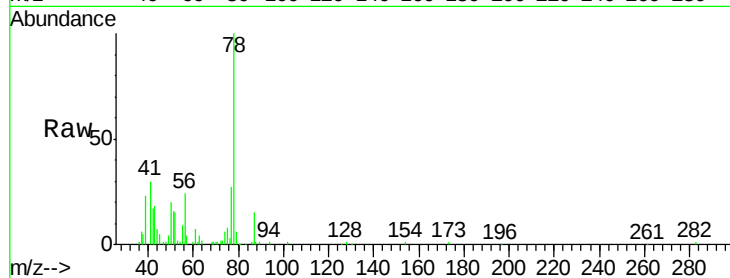
Tgt Ion: 78 Resp: 84783

Ion Ratio Lower Upper

78 100

77 25.8 18.8 28.2

50 17.8 14.7 22.1



#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 6.28 min Scan# 1085

Delta R.T. -0.03 min

Lab File: VL037788.D

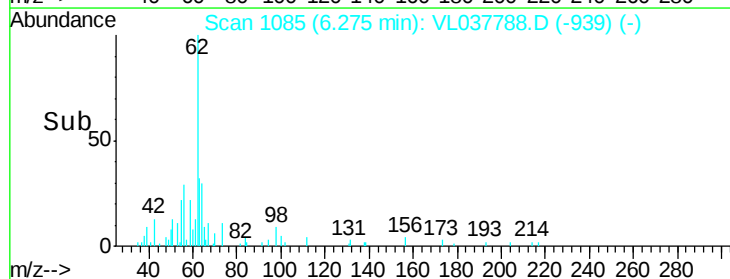
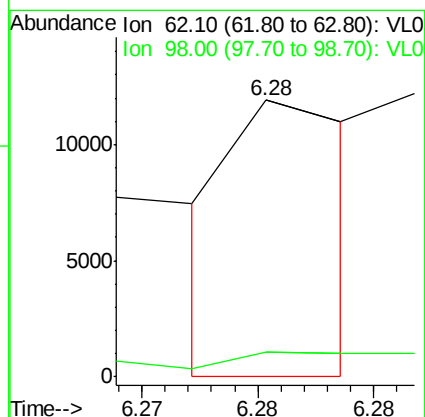
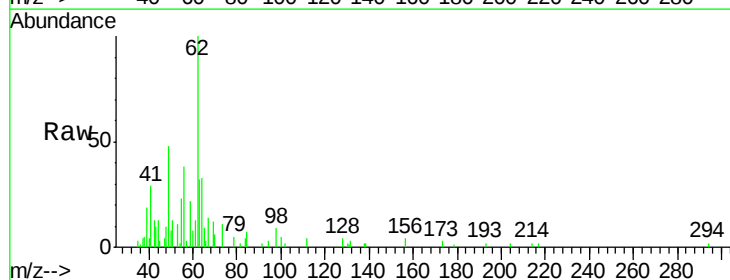
Acq: 6 Oct 2021 00:30

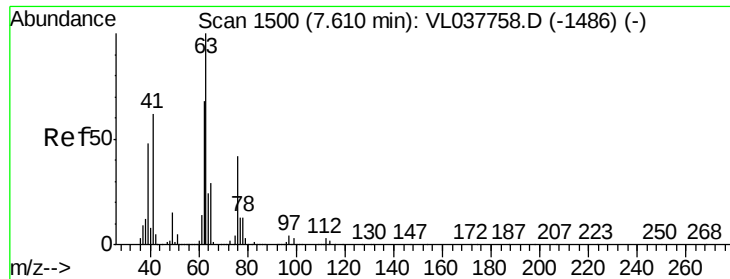
Tgt Ion: 62 Resp: 4425

Ion Ratio Lower Upper

62 100

98 0.0 6.1 9.1#





#39

1,2-Dichloropropane

Concen: 7.229 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.46 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampled :

C0P25

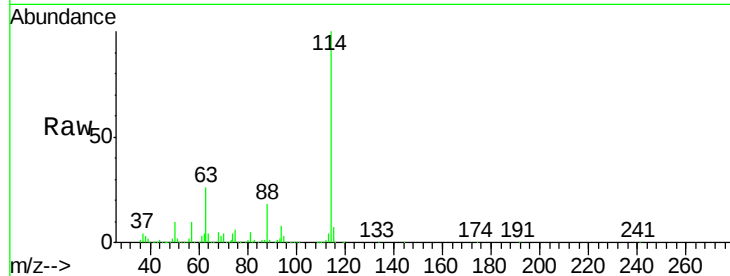
Tgt Ion: 63 Resp: 834846

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

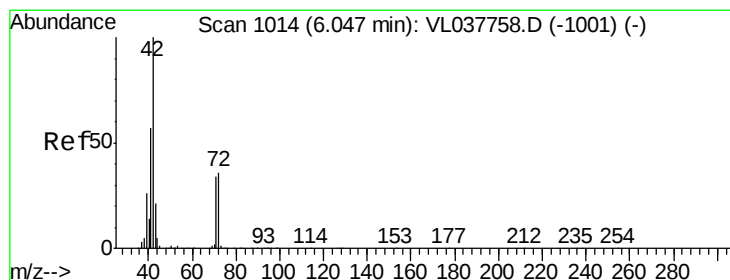
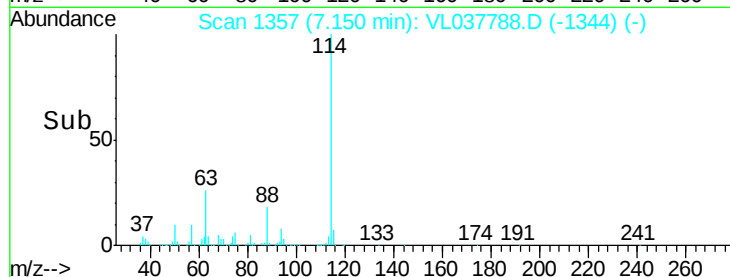
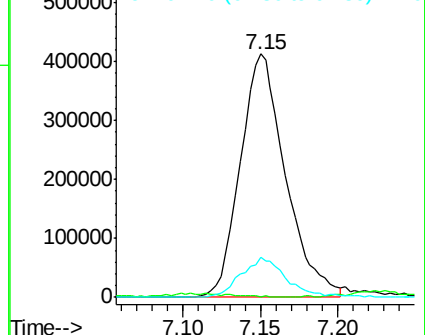
62 16.3 54.6 82.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.330 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

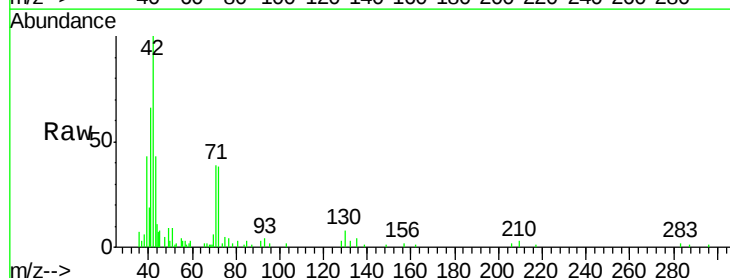
Tgt Ion: 42 Resp: 23444

Ion Ratio Lower Upper

42 100

72 55.2 31.9 47.9#

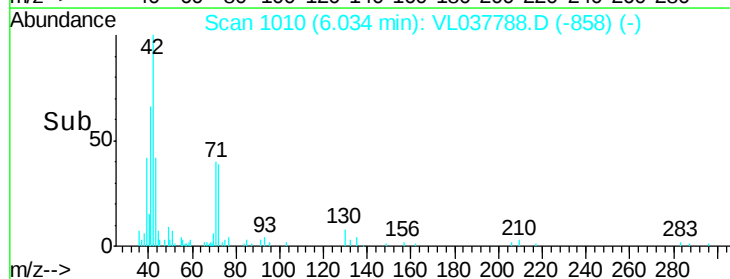
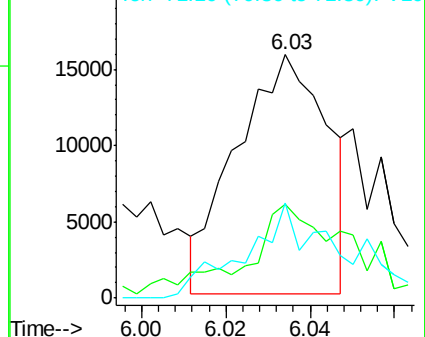
71 45.3 30.3 45.5

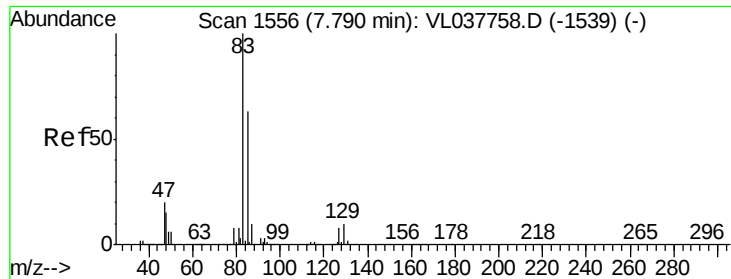


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.023 ppbv

RT: 7.76 min Scan# 1546

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

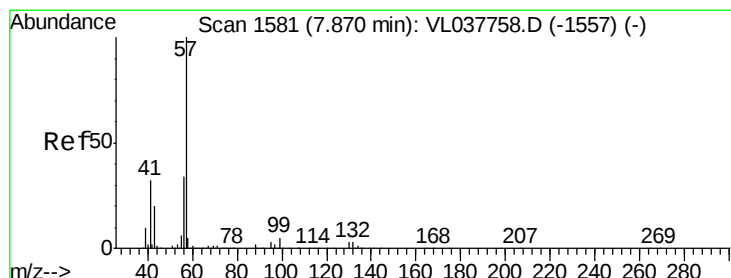
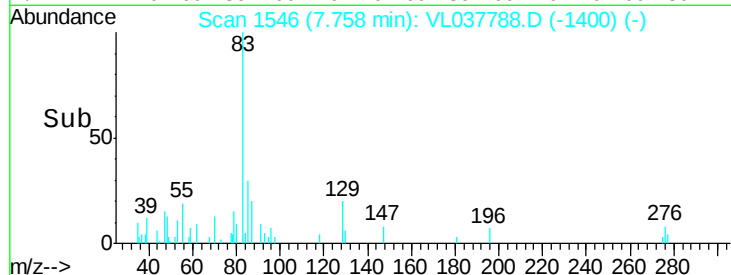
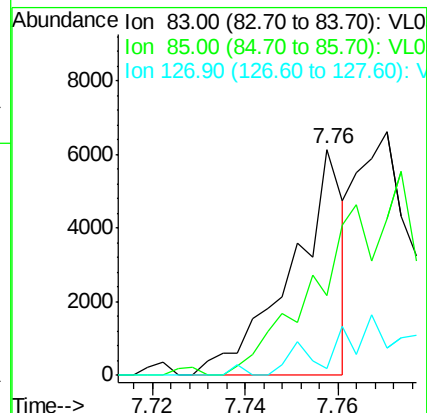
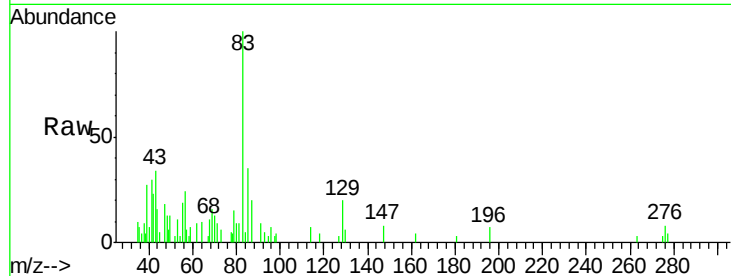
Tgt Ion: 83 Resp: 4788

Ion Ratio Lower Upper

83 100

85 31.8 50.6 75.8#

127 3.0 6.2 9.4#



#44

2,2,4-Trimethylpentane

Concen: 0.073 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

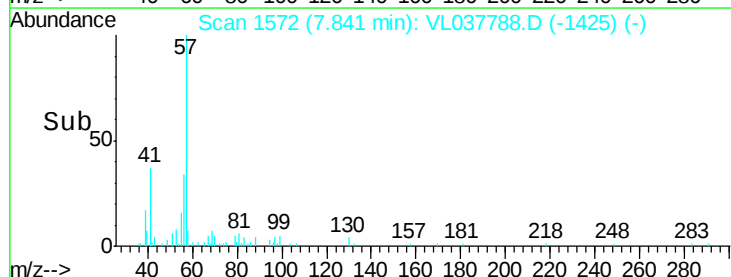
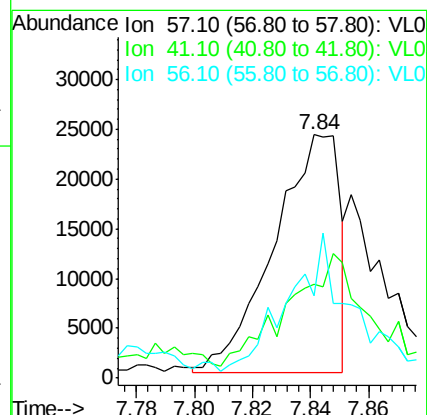
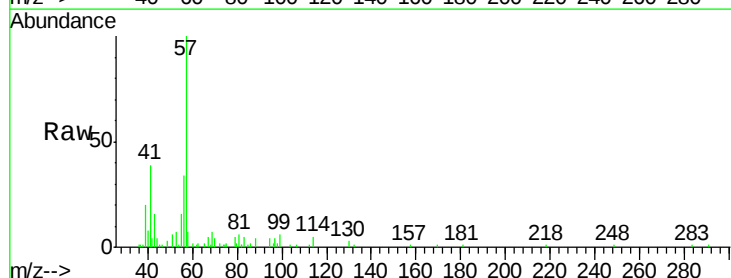
Tgt Ion: 57 Resp: 37665

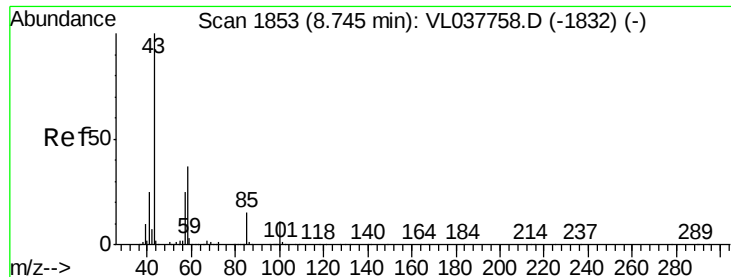
Ion Ratio Lower Upper

57 100

41 65.6 25.6 38.4#

56 62.2 25.5 38.3#

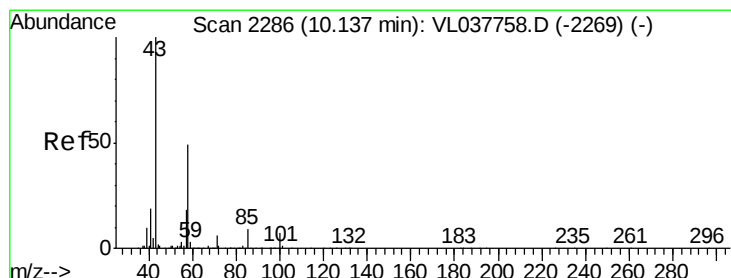
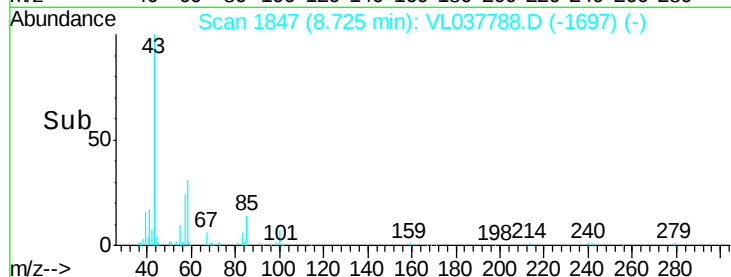
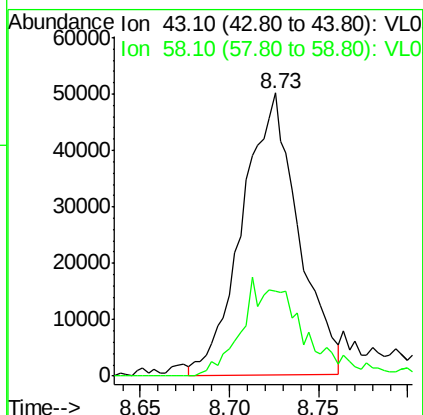
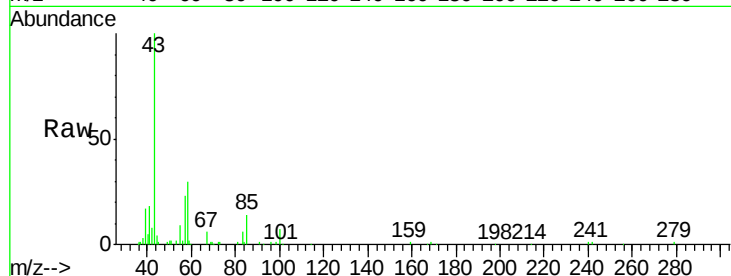




#50  
4-Methyl-2-Pentanone  
Concen: 0.581 ppbv  
RT: 8.73 min Scan# 1847  
Delta R.T. -0.02 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

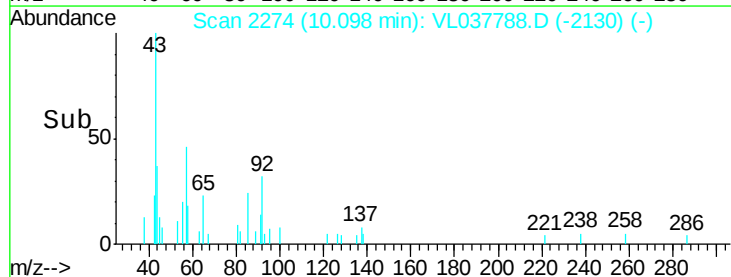
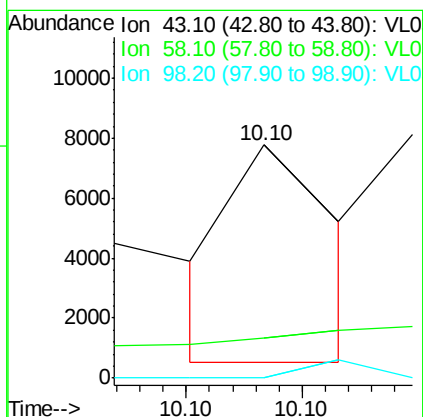
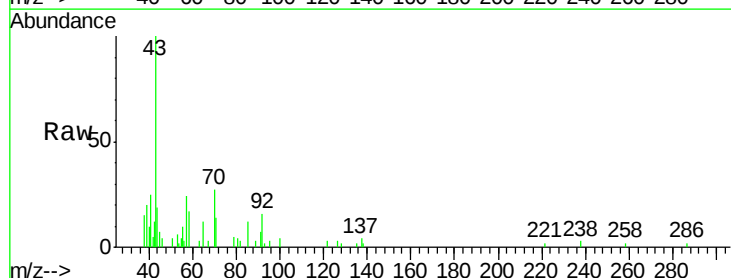
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

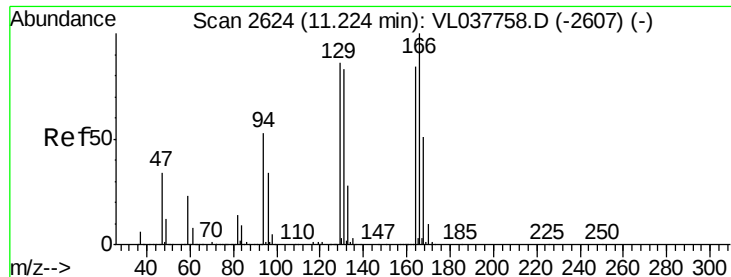
Tgt Ion: 43 Resp: 109692  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.4 44.0



#51  
2-Hexanone  
Concen: 0.027 ppbv  
RT: 10.10 min Scan# 2274  
Delta R.T. -0.04 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Tgt Ion: 43 Resp: 2298  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.4 59.0#  
98 0.0 0.3 0.5#





#52

Tetrachloroethene

Concen: 3.373 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

Tgt Ion:164 Resp: 402952

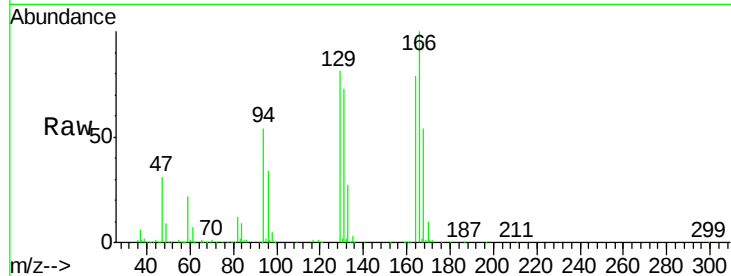
Ion Ratio Lower Upper

164 100

166 126.6 95.4 143.2

129 102.6 82.2 123.4

131 92.5 79.4 119.2

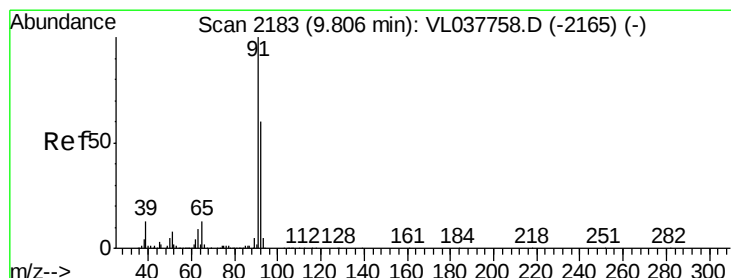
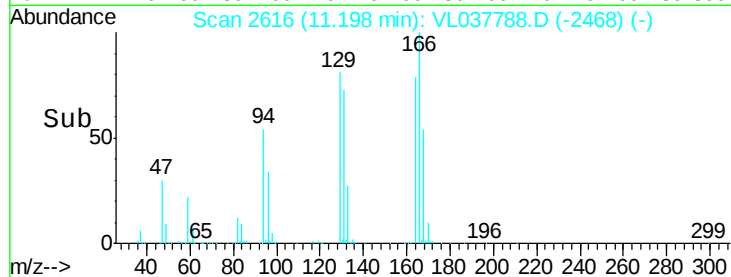
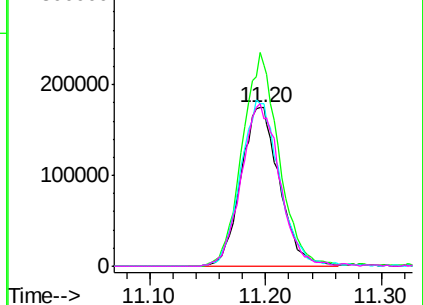


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 4.160 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.03 min

Lab File: VL037788.D

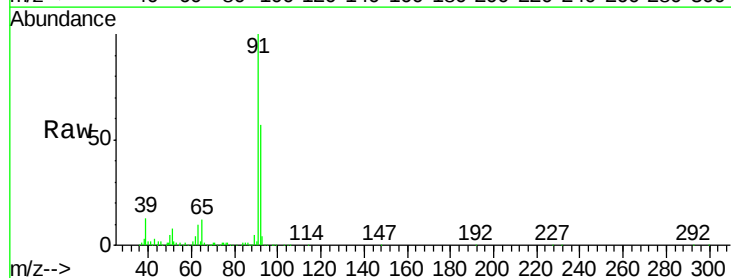
Acq: 6 Oct 2021 00:30

Tgt Ion: 91 Resp: 1415683

Ion Ratio Lower Upper

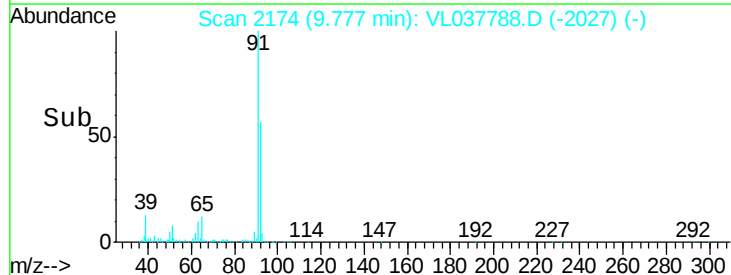
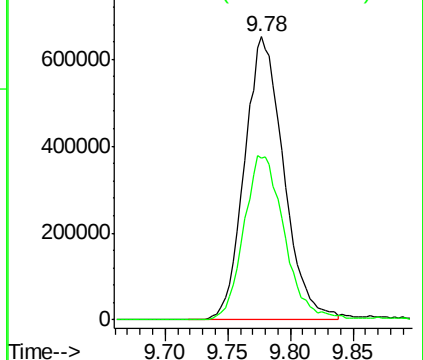
91 100

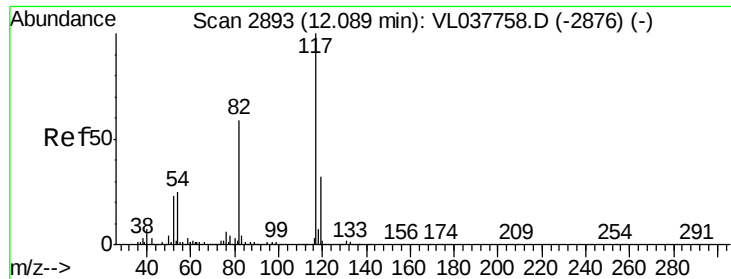
92 60.9 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

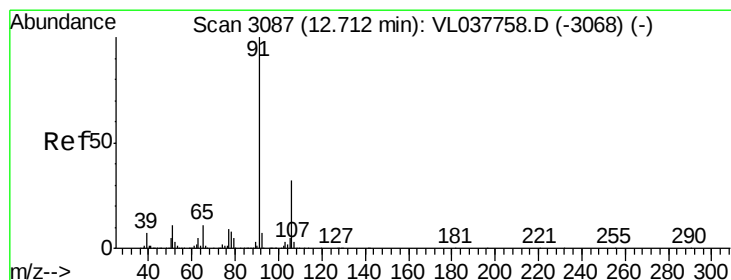
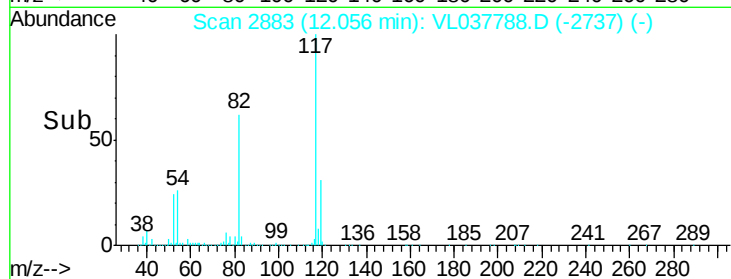
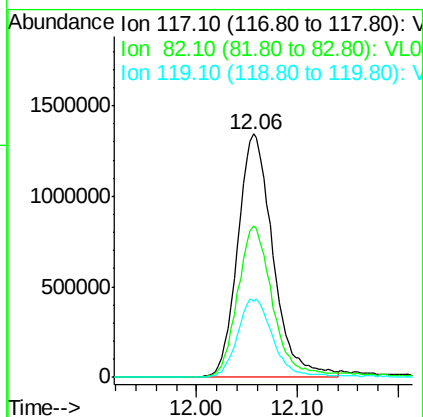
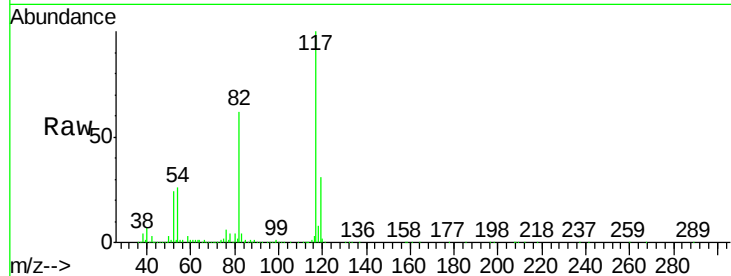




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2883  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

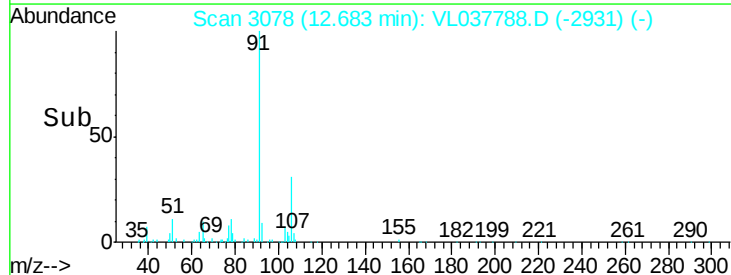
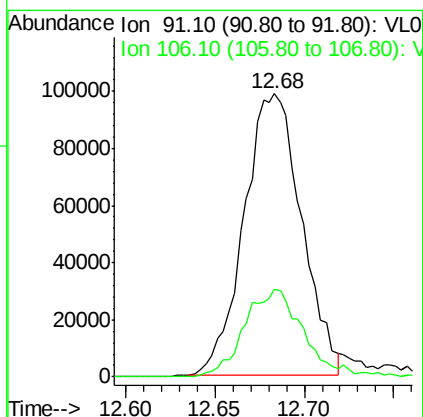
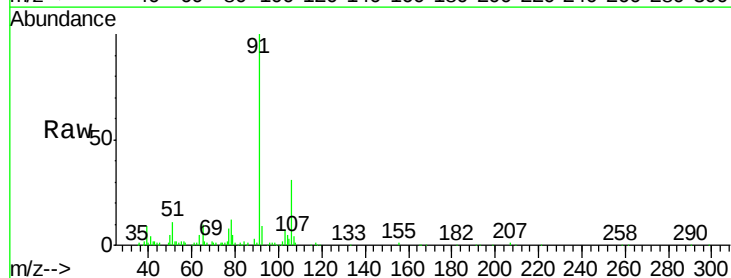
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

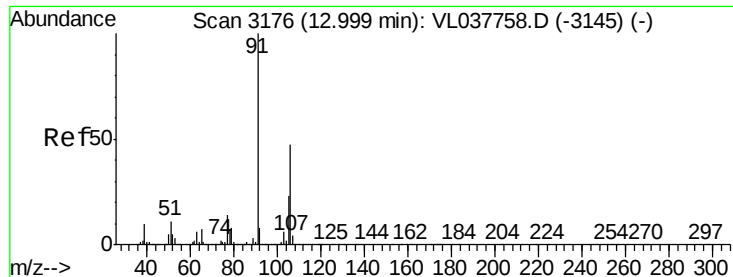
Tgt Ion: 117 Resp: 3257373  
Ion Ratio Lower Upper  
117 100  
82 63.7 52.2 78.2  
119 33.4 26.0 39.0



#58  
Ethyl Benzene  
Concen: 0.508 ppbv  
RT: 12.68 min Scan# 3078  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Tgt Ion: 91 Resp: 222357  
Ion Ratio Lower Upper  
91 100  
106 30.7 25.3 37.9

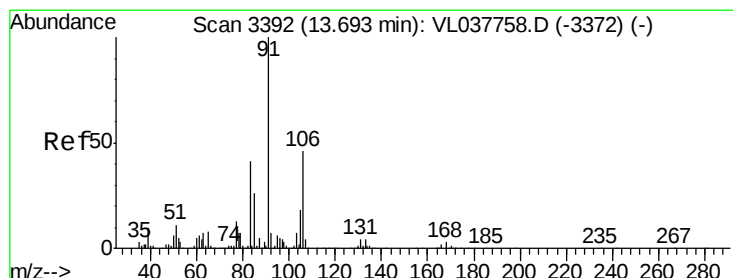
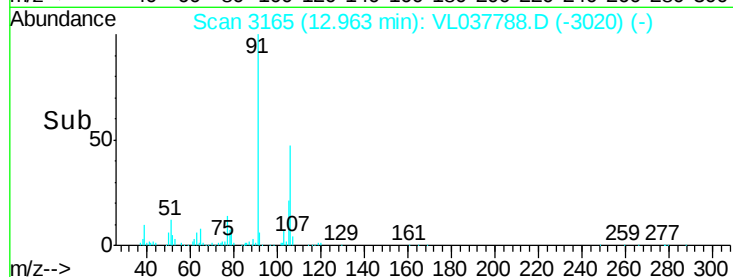
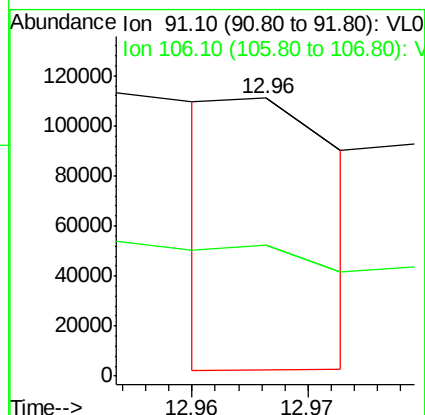
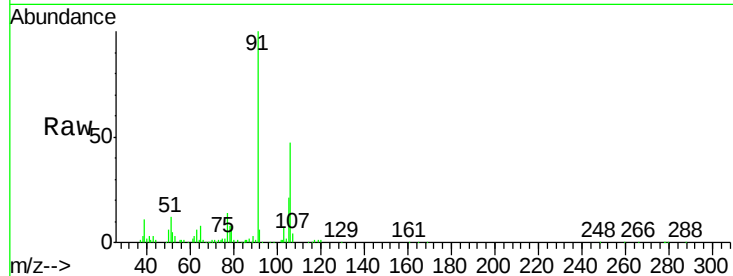




#59  
m/p-Xylene  
Concen: 0.101 ppbv  
RT: 12.96 min Scan# 3165  
Delta R.T. -0.04 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

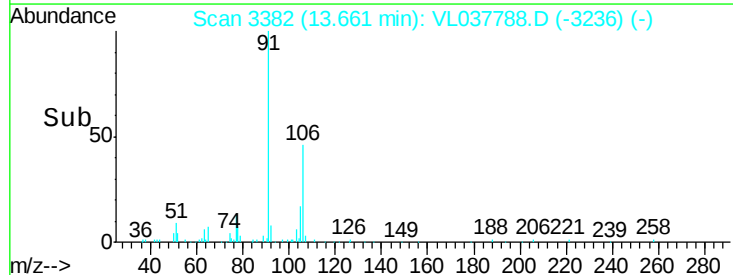
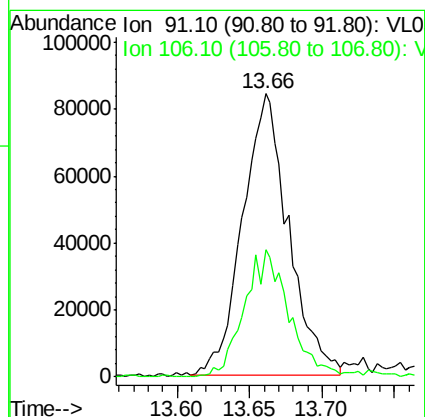
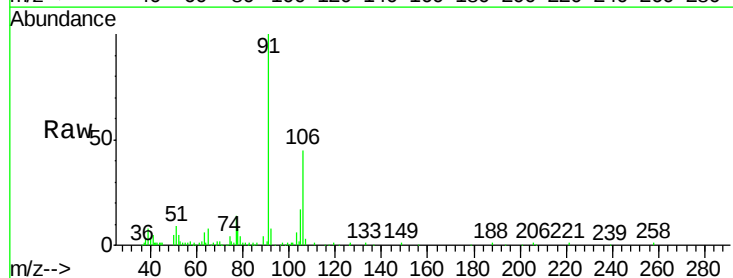
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P25

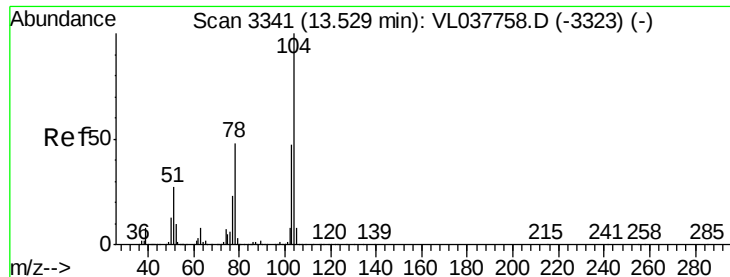
Tgt Ion: 91 Resp: 37851  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.7 55.1#



#60  
o-Xylene  
Concen: 0.513 ppbv  
RT: 13.66 min Scan# 3382  
Delta R.T. -0.03 min  
Lab File: VL037788.D  
Acq: 6 Oct 2021 00:30

Tgt Ion: 91 Resp: 184535  
Ion Ratio Lower Upper  
91 100  
106 45.8 23.5 70.5





#61

Styrene

Concen: 0.283 ppbv

RT: 13.50 min Scan# 3332

Delta R.T. -0.03 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampleId :

C0P25

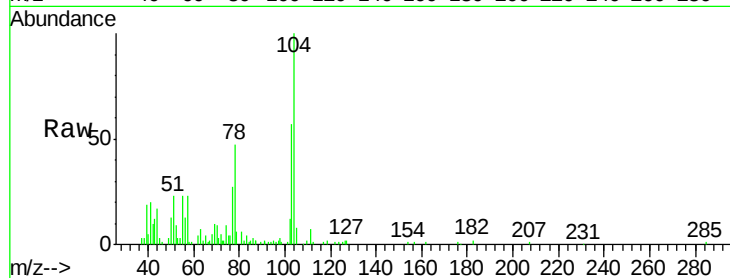
Tgt Ion: 104 Resp: 49280

Ion Ratio Lower Upper

104 100

78 85.4 40.6 61.0#

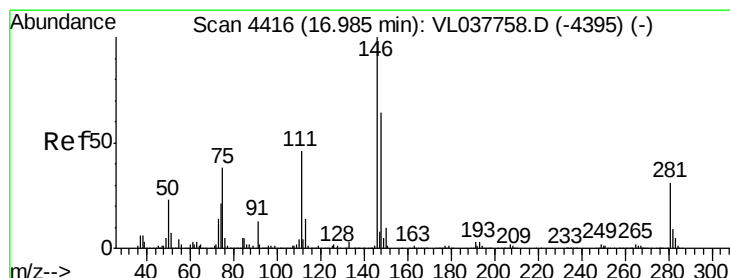
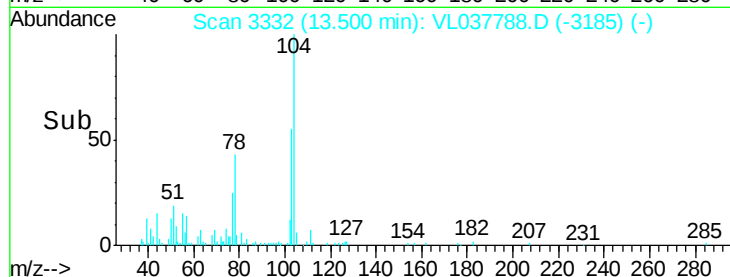
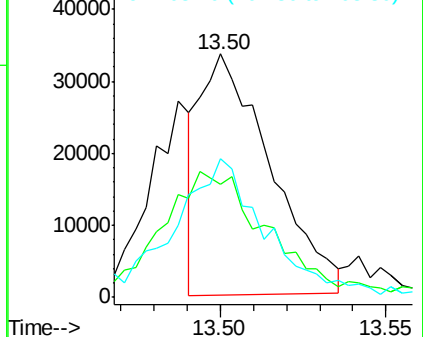
103 77.6 39.6 59.4#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 16.94 min Scan# 4401

Delta R.T. -0.05 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

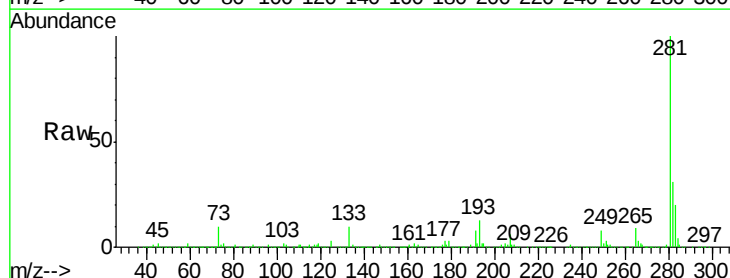
Tgt Ion: 91 Resp: 831

Ion Ratio Lower Upper

91 100

126 0.0 0.0 0.0

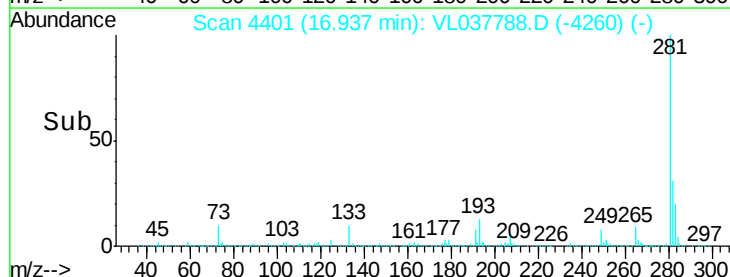
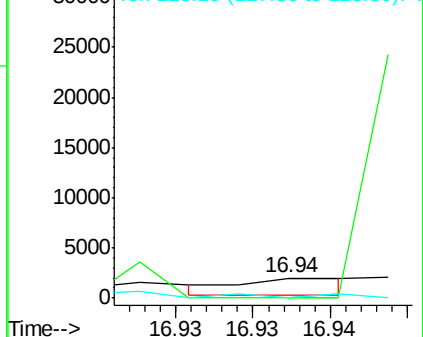
128 0.0 5.3 7.9#

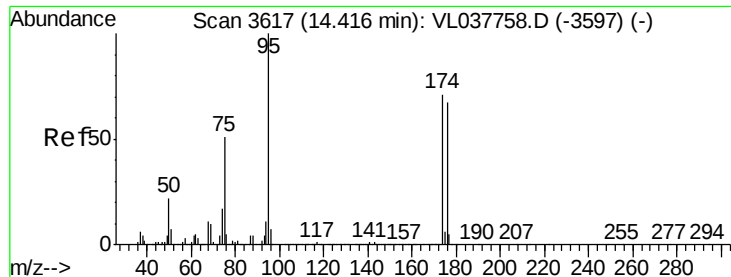


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

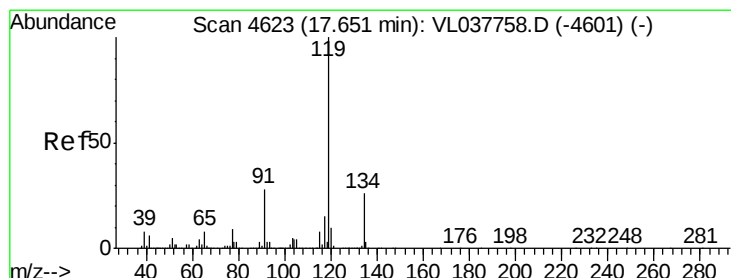
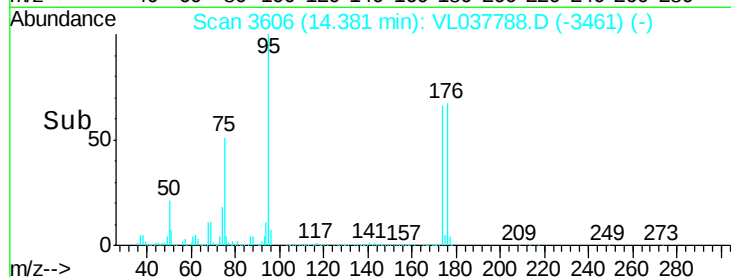
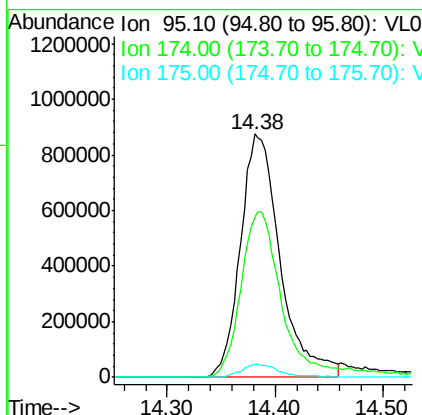
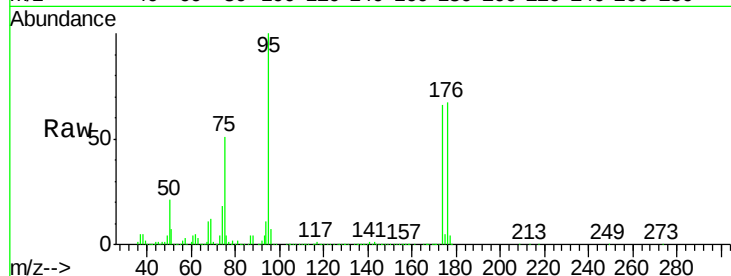




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.867 ppbv  
 RT: 14.38 min Scan# 3606  
 Delta R.T. -0.04 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

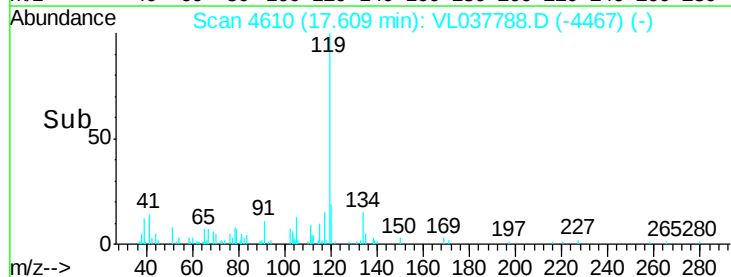
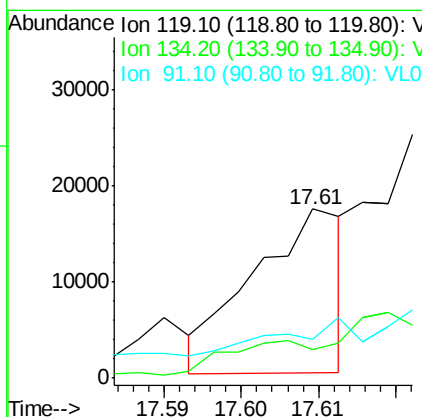
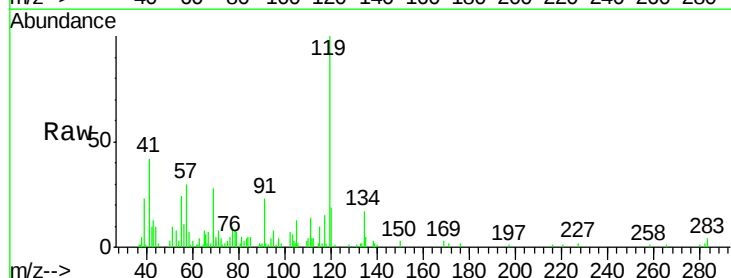
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P25

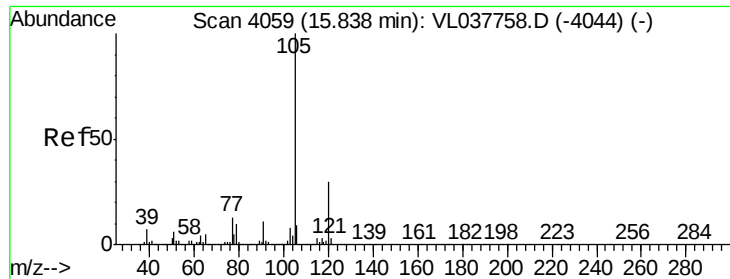
Tgt Ion: 95 Resp: 2247681  
 Ion Ratio Lower Upper  
 95 100  
 174 73.4 57.8 86.6  
 175 5.7 4.7 7.1



#69  
 p-Isopropyltoluene  
 Concen: 0.029 ppbv  
 RT: 17.61 min Scan# 4610  
 Delta R.T. -0.04 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

Tgt Ion: 119 Resp: 13945  
 Ion Ratio Lower Upper  
 119 100  
 134 0.0 21.2 31.8#  
 91 0.0 22.2 33.4#





#72

4-Ethyltoluene

Concen: 0.024 ppbv

RT: 15.80 min Scan# 4047

Delta R.T. -0.04 min

Lab File: VL037788.D

Acq: 6 Oct 2021 00:30

Instrument :

MSVOA\_L

ClientSampled :

C0P25

Tgt Ion:105 Resp: 9831

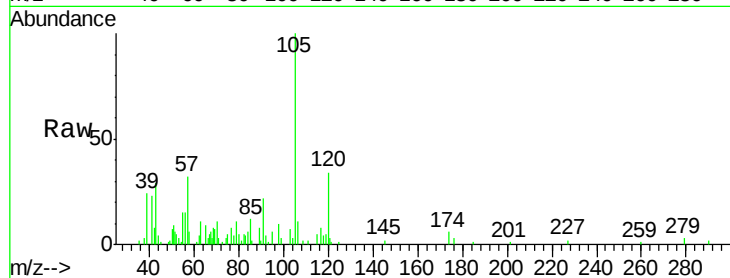
Ion Ratio Lower Upper

105 100

120 0.0 24.2 36.2#

91 0.0 10.4 15.6#

77 0.0 10.3 15.5#

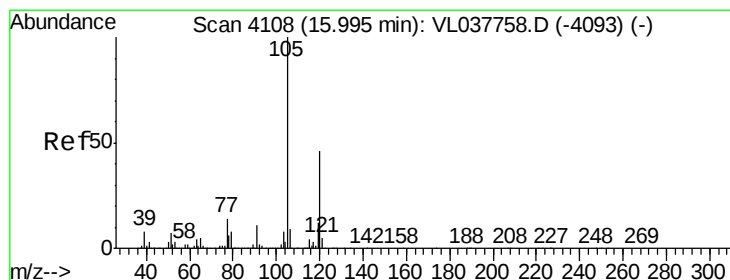
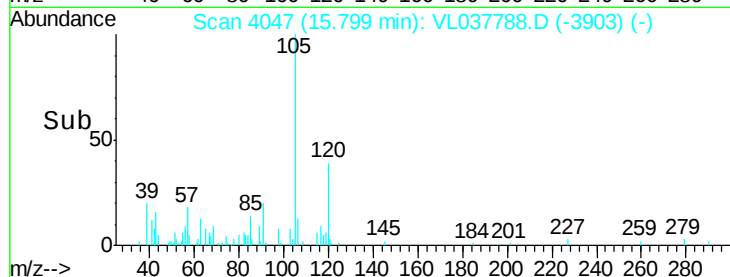
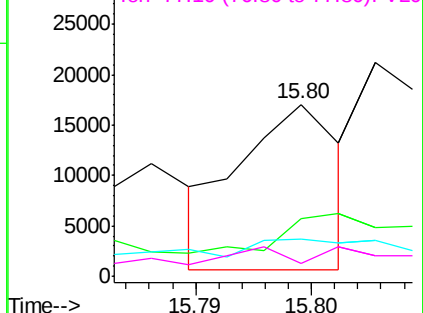


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.023 ppbv

RT: 15.96 min Scan# 4096

Delta R.T. -0.04 min

Lab File: VL037788.D

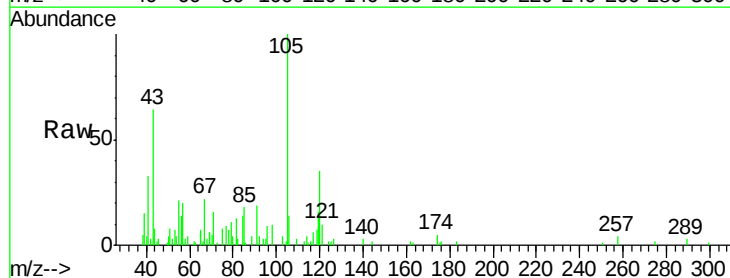
Acq: 6 Oct 2021 00:30

Tgt Ion:105 Resp: 8362

Ion Ratio Lower Upper

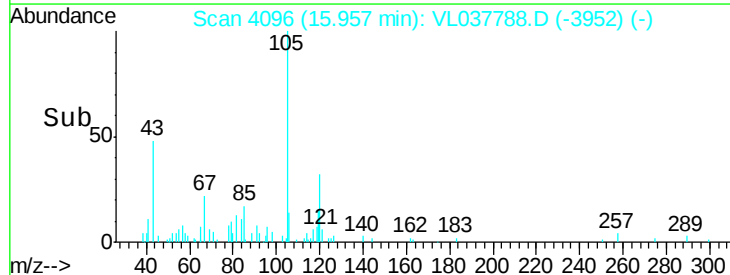
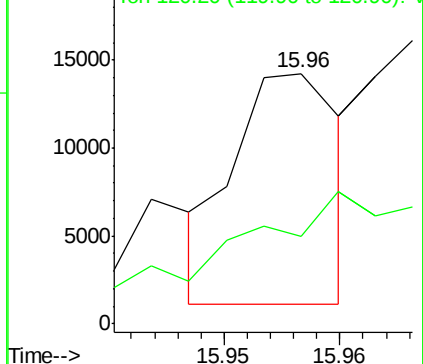
105 100

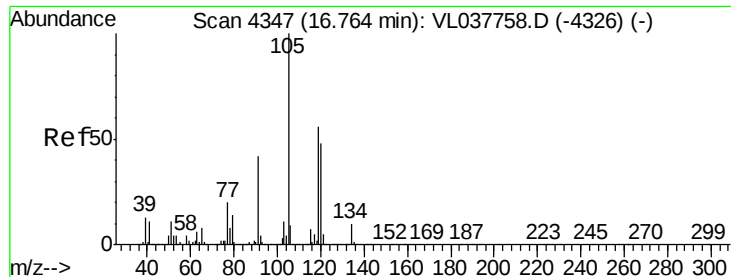
120 32.5 36.6 54.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

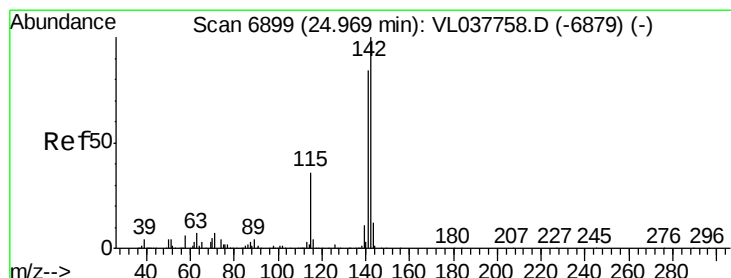
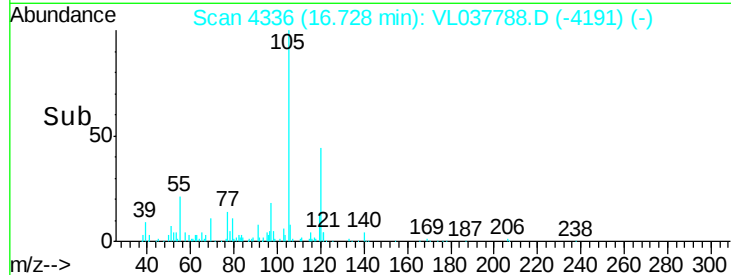
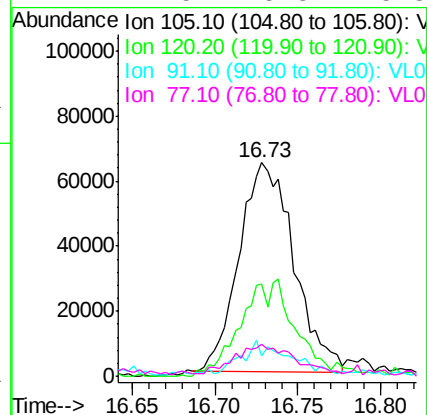
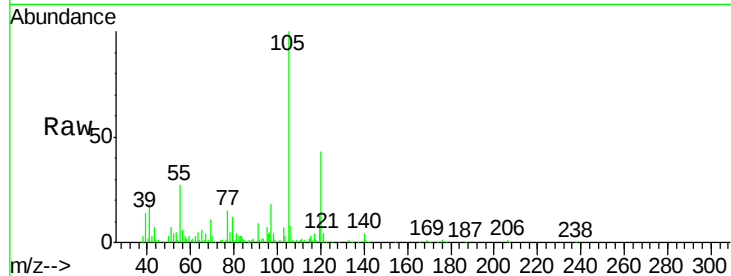




#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.380 ppbv  
 RT: 16.73 min Scan# 4336  
 Delta R.T. -0.04 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 148105 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 44.6  | 38.4  | 57.6   |
| 91       | 8.2   | 34.2  | 51.2#  |
| 77       | 14.5  | 15.8  | 23.8#  |



#80  
 Naphthalene, 2-methyl-  
 Concen: 0.115 ppbv  
 RT: 24.95 min Scan# 6893  
 Delta R.T. -0.02 min  
 Lab File: VL037788.D  
 Acq: 6 Oct 2021 00:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 7384  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 80.0  | 68.6  | 102.8 |
| 115      | 35.9  | 29.0  | 43.6  |

