

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\  
 Data File : VL036994.D  
 Acq On : 19 May 2021 16:29  
 Operator : SY/AP  
 Sample : VIBLK  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

Quant Time: May 20 06:30:18 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1176784  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3760937  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3481467  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2519865  | 9.63     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.30% |

| Target Compounds               |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) Dichlorodifluoromethane     | 3.04  | 85  | 14540  | 0.073 | ppbv 98   |
| 3) Chlorodifluoromethane       | 2.98  | 51  | 19118  | 0.089 | ppbv 99   |
| 4) Chloromethane               | 3.13  | 50  | 5725   | 0.078 | ppbv 100  |
| 5) Vinyl Chloride              | 3.25  | 62  | 3359   | 0.042 | ppbv # 83 |
| 6) Bromomethane                | 3.47  | 94  | 2352   | 0.056 | ppbv # 31 |
| 7) Chloroethane                | 3.54  | 64  | 948    | 0.036 | ppbv 97   |
| 8) Dichlorotetrafluoroethane   | 3.18  | 85  | 13618  | 0.073 | ppbv 85   |
| 9) Propene                     | 3.00  | 41  | 8283   | 0.107 | ppbv # 45 |
| 10) Heptane                    | 8.10  | 43  | 11301  | 0.059 | ppbv # 58 |
| 11) Trichlorofluoromethane     | 3.93  | 101 | 13996  | 0.076 | ppbv 84   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47  | 101 | 10619  | 0.081 | ppbv 99   |
| 15) Acetone                    | 3.86  | 43  | 36653  | 0.304 | ppbv # 2  |
| 18) 1,1-Dichloroethene         | 4.27  | 96  | 2264   | 0.037 | ppbv # 1  |
| 20) Methylene Chloride         | 4.33  | 84  | 13896  | 0.215 | ppbv # 91 |
| 21) Allyl Chloride             | 4.40  | 41  | 5779   | 0.064 | ppbv 95   |
| 22) trans-1,2-Dichloroethene   | 4.86  | 96  | 4959   | 0.085 | ppbv # 82 |
| 24) 1,1-Dichloroethane         | 4.99  | 63  | 10408  | 0.076 | ppbv # 96 |
| 25) Ethyl Acetate              | 5.67  | 43  | 12208  | 0.042 | ppbv # 75 |
| 27) Carbon Disulfide           | 4.53  | 76  | 6177   | 0.041 | ppbv # 1  |
| 29) Chloroform                 | 5.73  | 83  | 7446   | 0.036 | ppbv # 49 |
| 30) Cyclohexane                | 7.11  | 84  | 4283   | 0.034 | ppbv # 1  |
| 31) cis-1,2-Dichloroethene     | 5.53  | 61  | 5059   | 0.038 | ppbv # 73 |
| 32) 1,1,1-Trichloroethane      | 6.49  | 97  | 8465   | 0.038 | ppbv # 28 |
| 36) Benzene                    | 6.87  | 78  | 11045  | 0.034 | ppbv # 92 |
| 38) Trichloroethene            | 7.81  | 130 | 5346   | 0.039 | ppbv # 75 |
| 39) 1,2-Dichloropropane        | 7.16  | 63  | 873430 | 6.999 | ppbv # 26 |
| 42) Bromodichloromethane       | 7.76  | 83  | 8783   | 0.036 | ppbv # 95 |
| 44) 2,2,4-Trimethylpentane     | 7.84  | 57  | 39753  | 0.072 | ppbv 98   |
| 47) 1,1,2-Trichloroethane      | 9.45  | 97  | 7182   | 0.055 | ppbv # 72 |
| 53) Toluene                    | 9.78  | 91  | 24125  | 0.063 | ppbv 94   |
| 56) 1,1,1,2-Tetrachloroethane  | 12.10 | 131 | 4525   | 0.031 | ppbv # 1  |
| 58) Ethyl Benzene              | 12.69 | 91  | 20102  | 0.041 | ppbv 91   |
| 59) m/p-Xylene                 | 12.98 | 91  | 29533  | 0.073 | ppbv # 37 |
| 60) o-Xylene                   | 13.67 | 91  | 22113  | 0.057 | ppbv # 30 |
| 61) Styrene                    | 13.51 | 104 | 8979   | 0.041 | ppbv # 59 |
| 63) 1,1,2,2-Tetrachloroethane  | 13.65 | 83  | 8755   | 0.030 | ppbv # 1  |
| 67) sec-Butylbenzene           | 17.28 | 105 | 38610  | 0.056 | ppbv 94   |
| 73) 1,3,5-Trimethylbenzene     | 15.99 | 105 | 25965  | 0.060 | ppbv 88   |
| 75) 1,3-Dichlorobenzene        | 16.97 | 146 | 9271   | 0.034 | ppbv # 24 |
| 76) 1,4-Dichlorobenzene        | 17.11 | 146 | 14190  | 0.051 | ppbv # 47 |
| 80) Naphthalene,2-methyl-      | 24.99 | 142 | 21806  | 0.286 | ppbv # 32 |

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

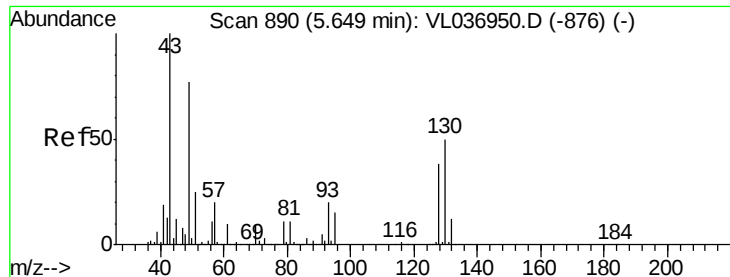
Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

Quant Time: May 20 06:30:18 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 81) 1,2,4-Trichlorobenzene | 21.90 | 180  | 6428     | 0.030 | ppbv  | # 9      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

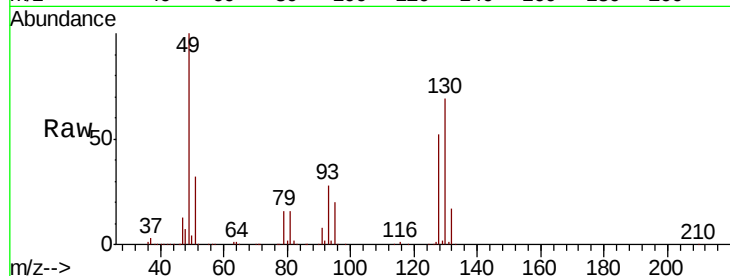
Tot Ion: 49 Resp: 1176784

Ion Ratio Lower Upper

49 100

128 55.7 26.9 80.7

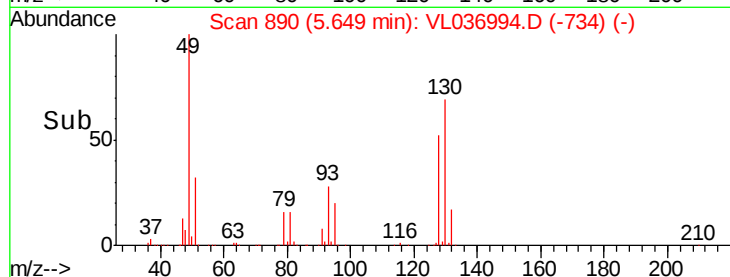
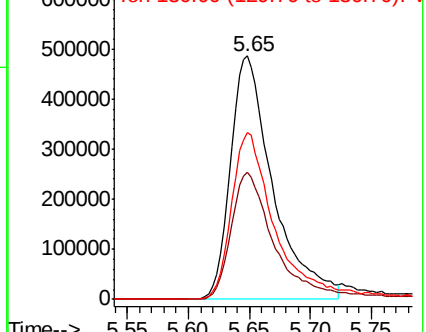
130 73.9 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.073 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL036994.D

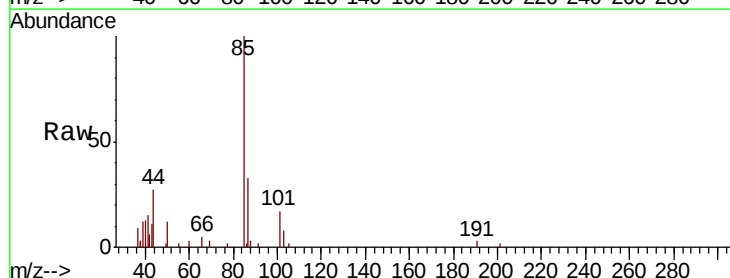
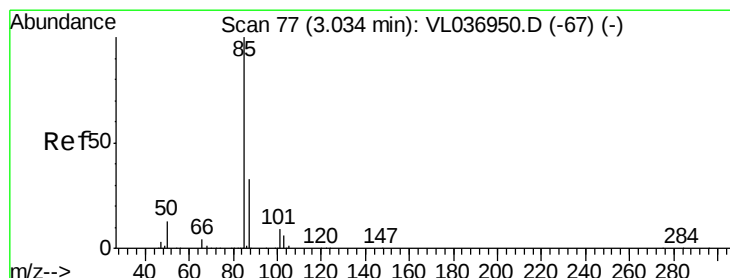
Acq: 19 May 2021 16:29

Tgt Ion: 85 Resp: 14540

Ion Ratio Lower Upper

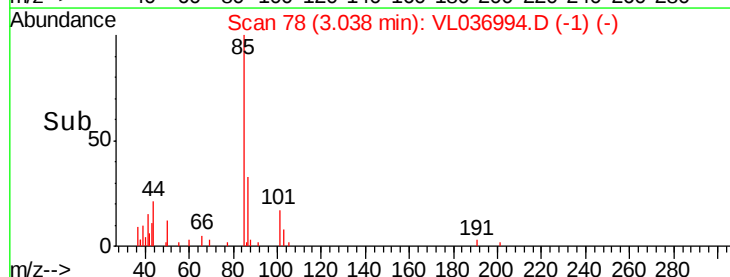
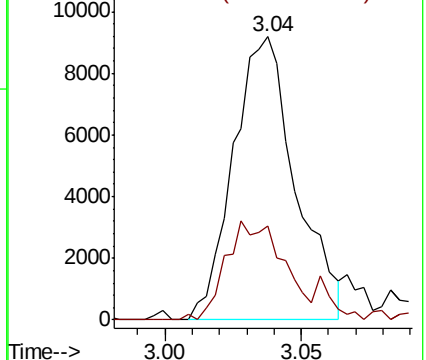
85 100

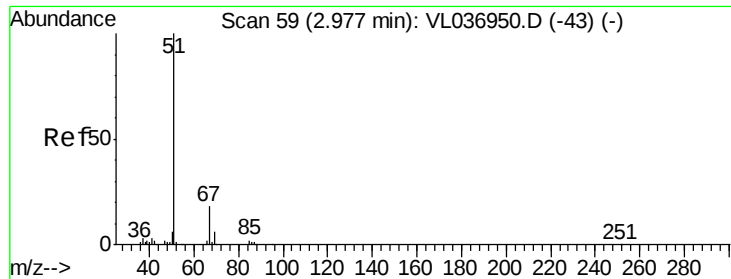
87 34.3 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.089 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

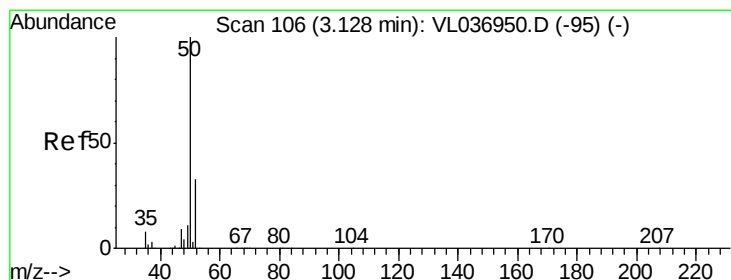
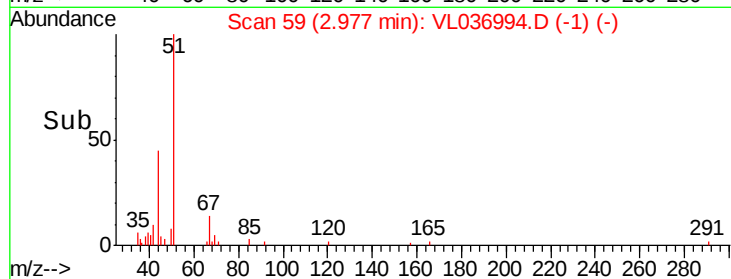
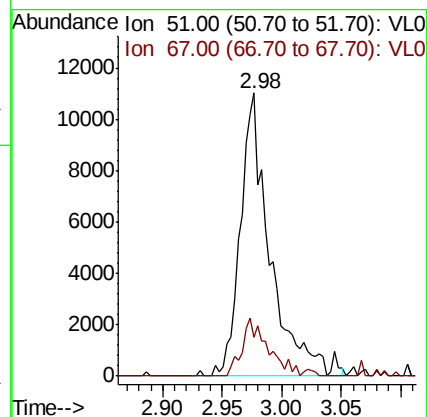
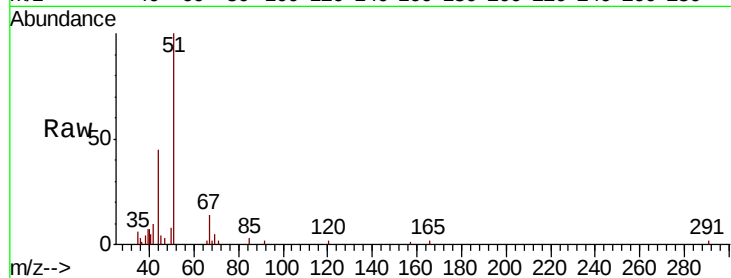
VIBLK

Tot Ion: 51 Resp: 19118

Ion Ratio Lower Upper

51 100

67 18.7 14.6 21.8



#4

Chloromethane

Concen: 0.078 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL036994.D

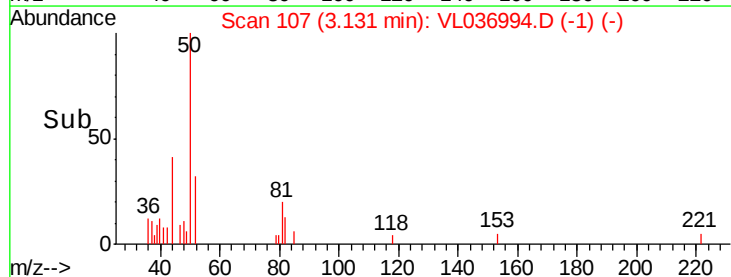
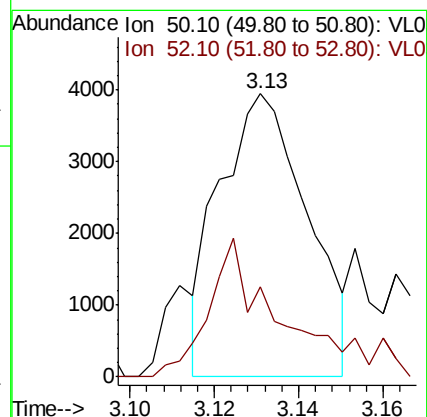
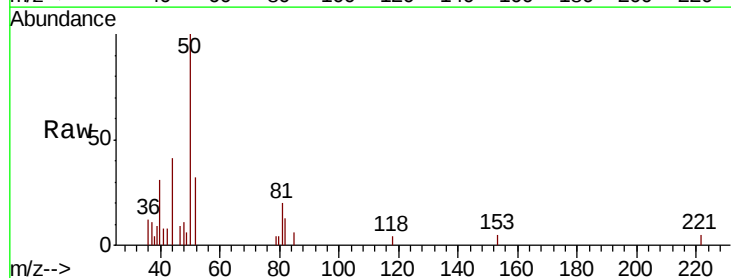
Acq: 19 May 2021 16:29

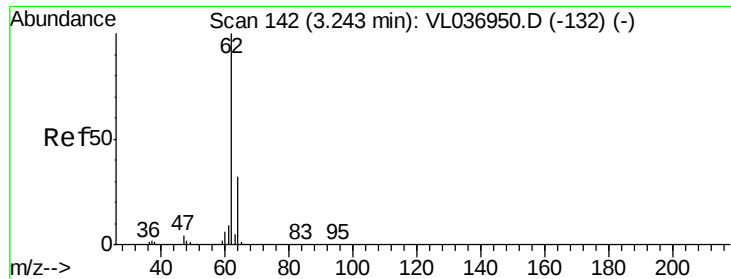
Tgt Ion: 50 Resp: 5725

Ion Ratio Lower Upper

50 100

52 32.7 26.1 39.1





#5

Vinyl Chloride

Concen: 0.042 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

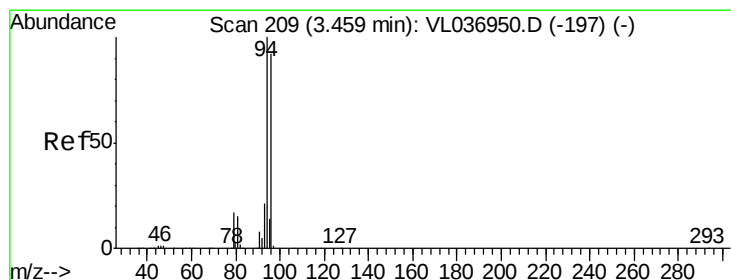
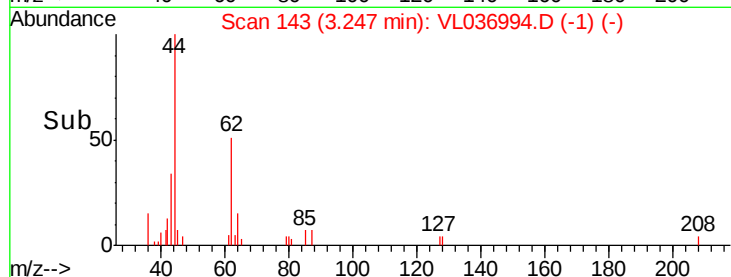
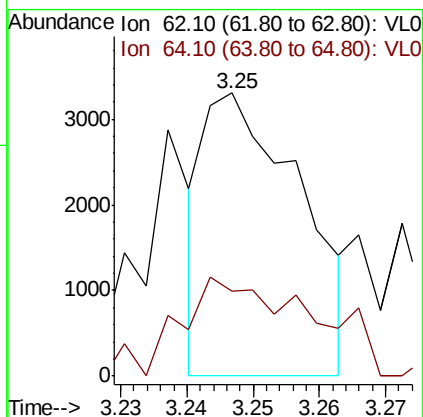
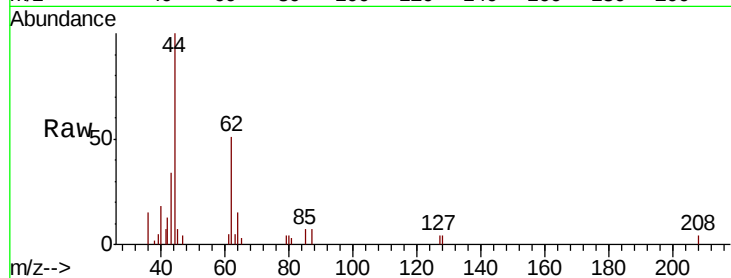
VIBLK

Tot Ion: 62 Resp: 3359

Ion Ratio Lower Upper

62 100

64 23.0 25.9 38.9#



#6

Bromomethane

Concen: 0.056 ppbv

RT: 3.47 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL036994.D

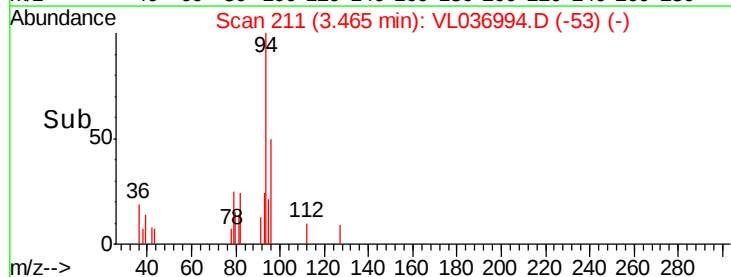
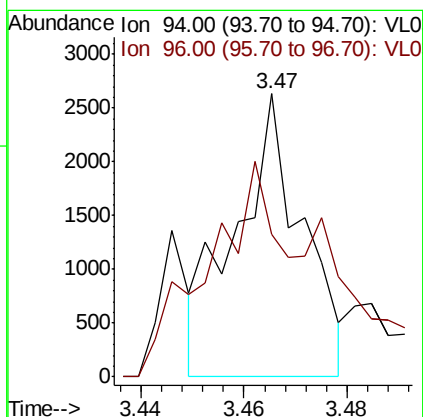
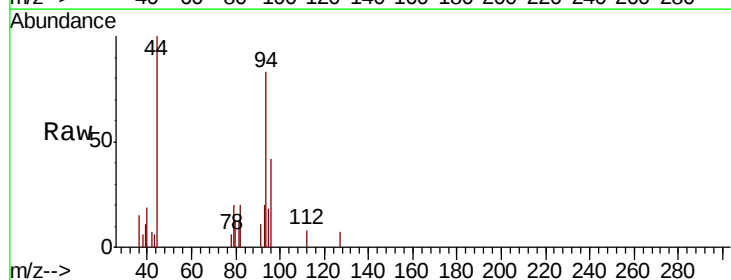
Acq: 19 May 2021 16:29

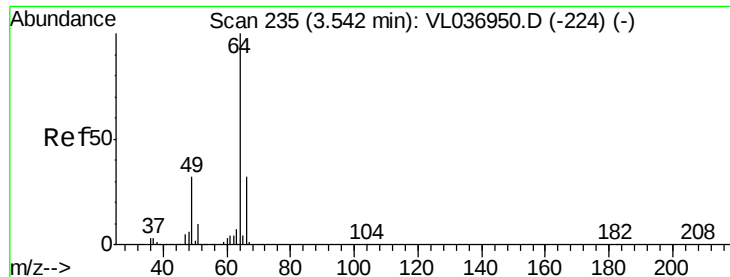
Tgt Ion: 94 Resp: 2352

Ion Ratio Lower Upper

94 100

96 26.0 74.0 111.0#





#7

Chloroethane

Concen: 0.036 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

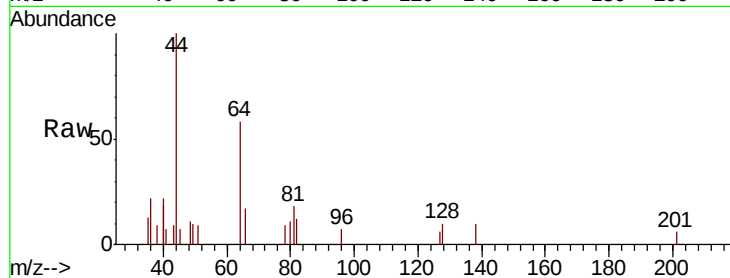
VIBLK

Tot Ion: 64 Resp: 948

Ion Ratio Lower Upper

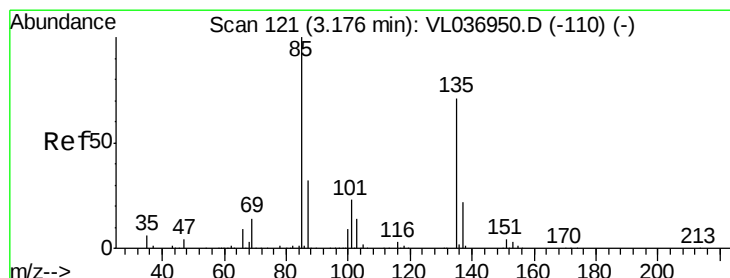
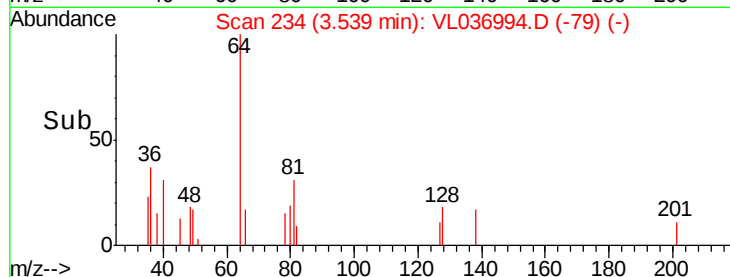
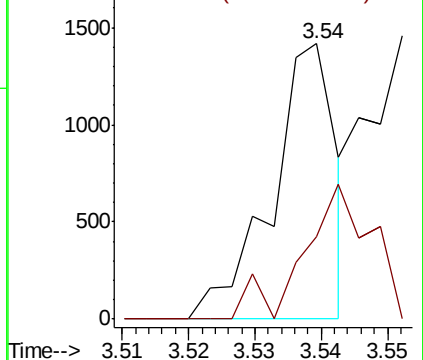
64 100

66 30.1 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.073 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.00 min

Lab File: VL036994.D

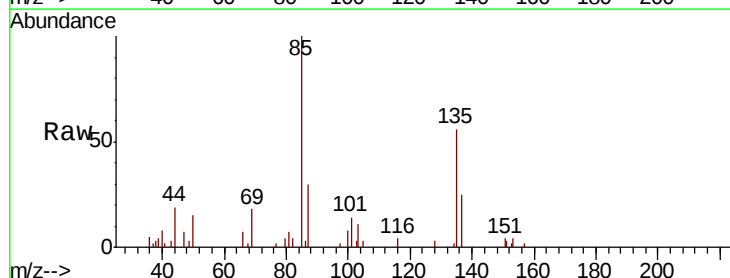
Acq: 19 May 2021 16:29

Tgt Ion: 85 Resp: 13618

Ion Ratio Lower Upper

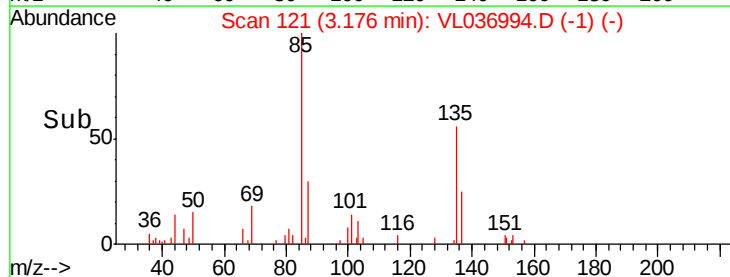
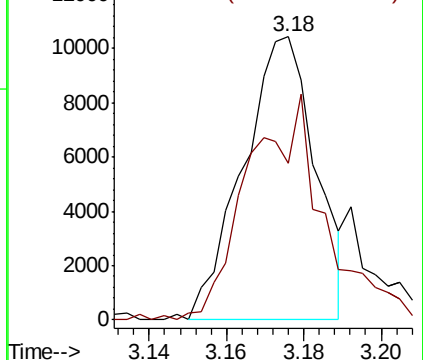
85 100

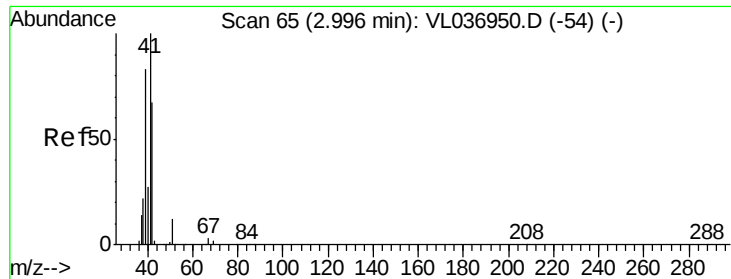
135 84.9 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.107 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

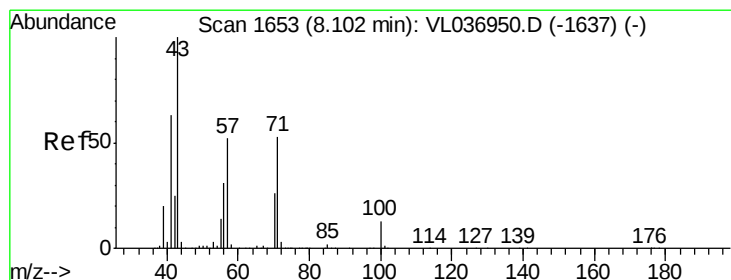
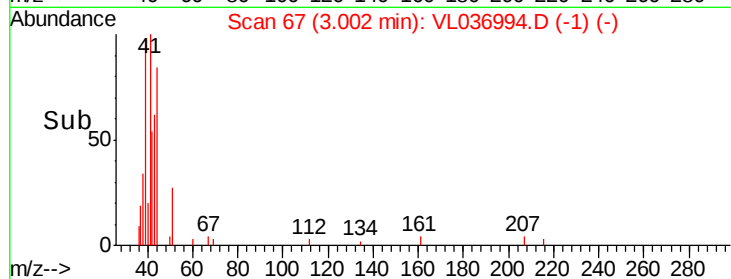
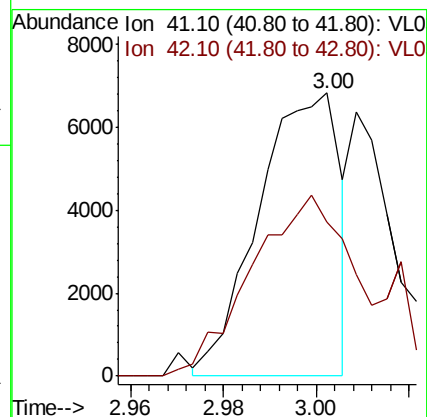
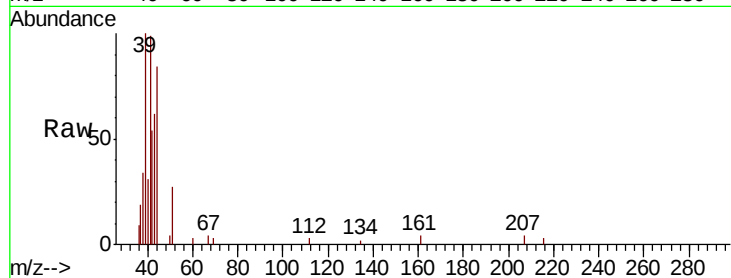
VIBLK

Tot Ion: 41 Resp: 8283

Ion Ratio Lower Upper

41 100

42 111.4 53.9 80.9#



#10

Heptane

Concen: 0.059 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL036994.D

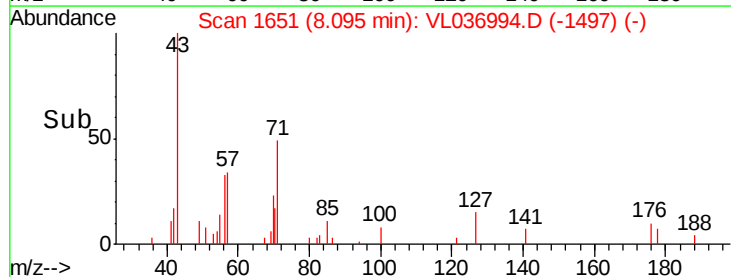
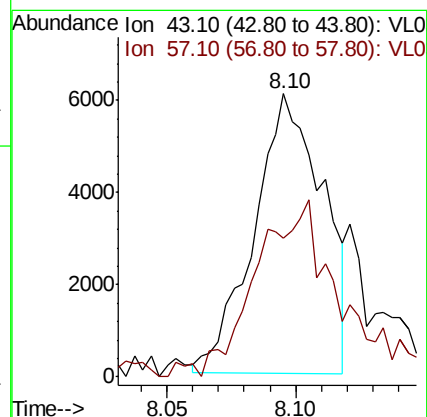
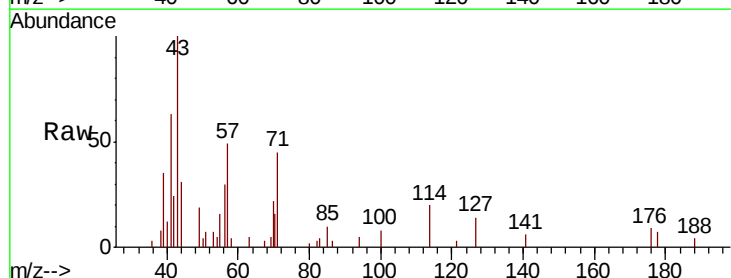
Acq: 19 May 2021 16:29

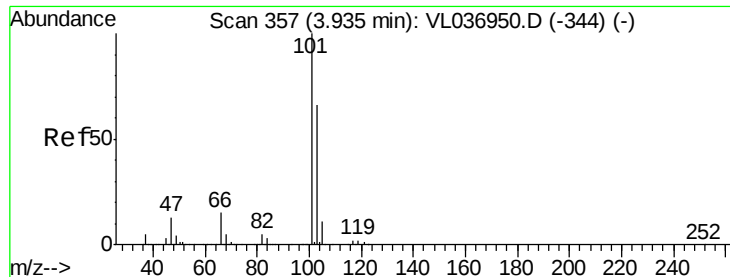
Tgt Ion: 43 Resp: 11301

Ion Ratio Lower Upper

43 100

57 80.7 41.0 61.6#

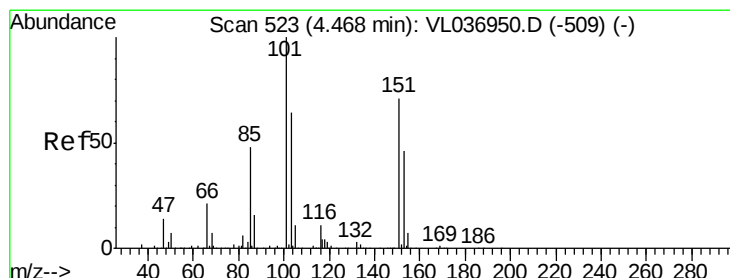
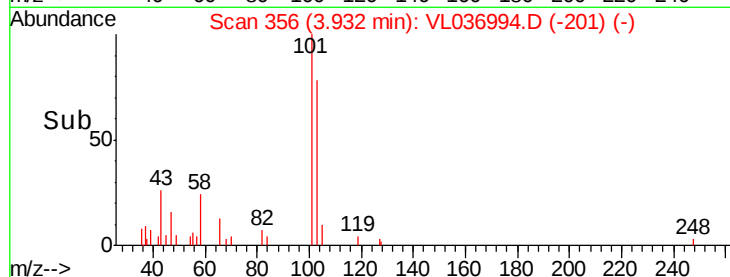
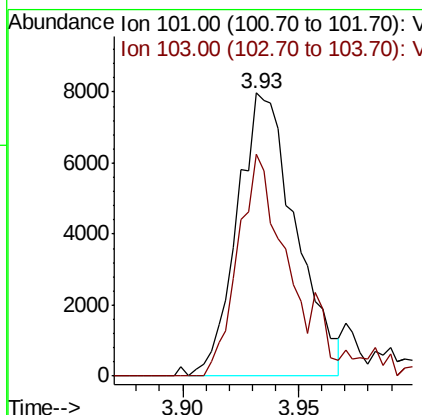
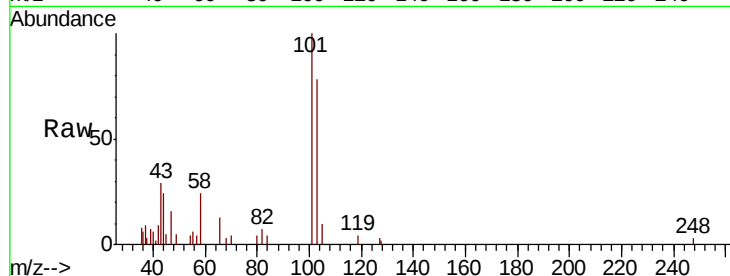




#11  
 Trichlorofluoromethane  
 Concen: 0.076 ppbv  
 RT: 3.93 min Scan# 356  
 Delta R.T. -0.00 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

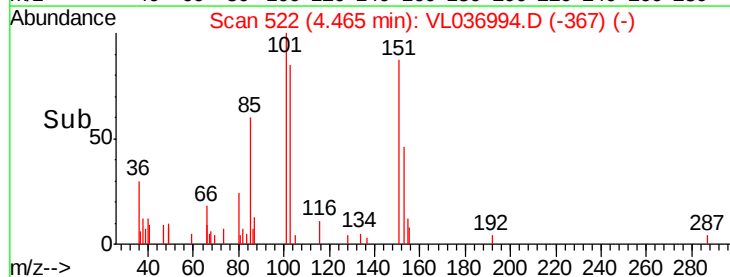
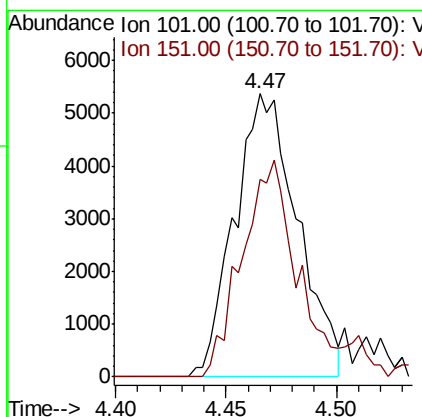
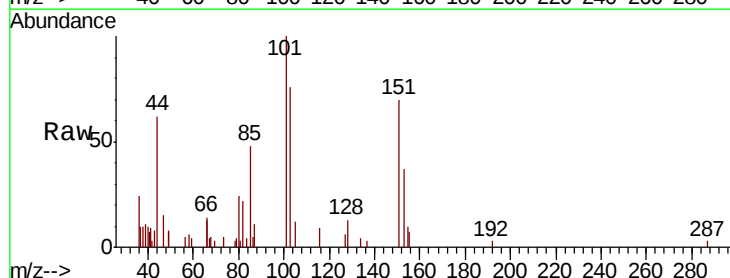
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

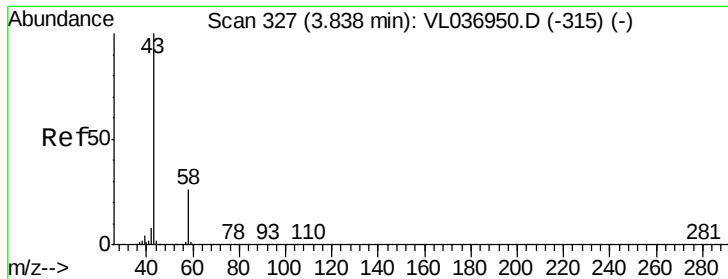
Tot Ion:101 Resp: 13996  
 Ion Ratio Lower Upper  
 101 100  
 103 78.3 52.6 79.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.081 ppbv  
 RT: 4.47 min Scan# 522  
 Delta R.T. -0.00 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

Tgt Ion:101 Resp: 10619  
 Ion Ratio Lower Upper  
 101 100  
 151 72.7 57.7 86.5

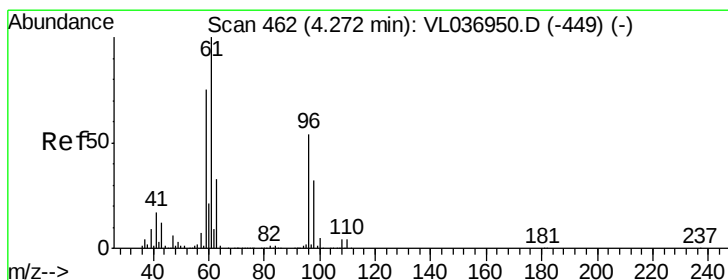
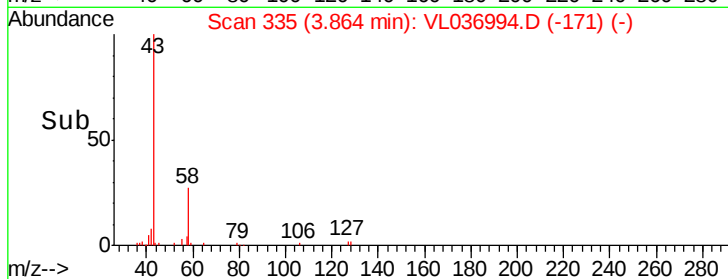
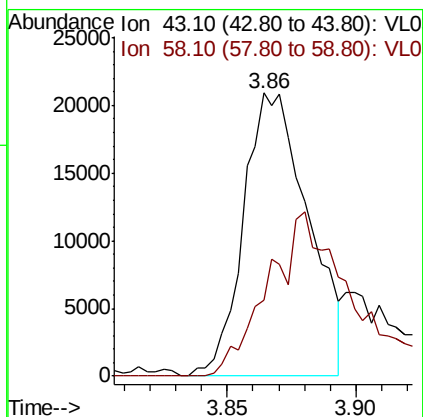
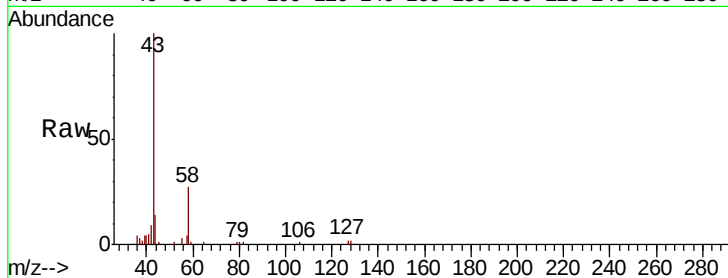




#15  
Acetone  
Concen: 0.304 ppbv  
RT: 3.86 min Scan# 335  
Delta R.T. 0.03 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

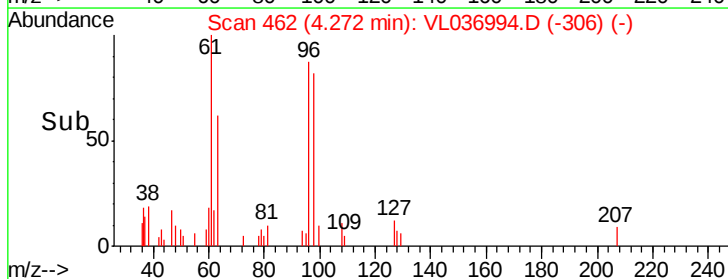
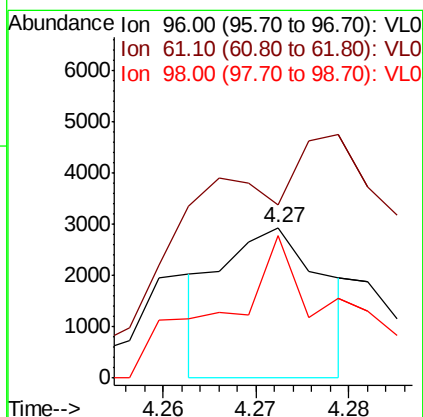
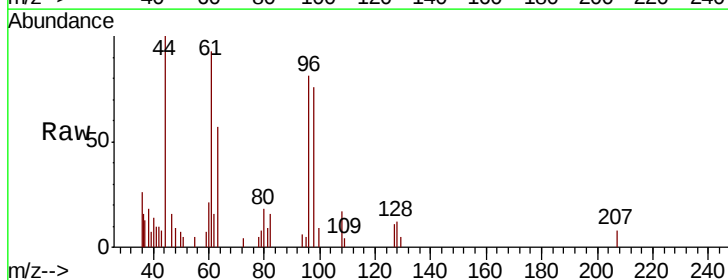
Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

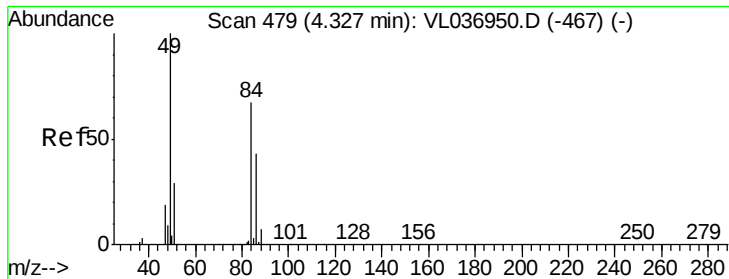
Tot Ion: 43 Resp: 36653  
Ion Ratio Lower Upper  
43 100  
58 83.3 24.0 36.0#



#18  
1,1-Dichloroethene  
Concen: 0.037 ppbv  
RT: 4.27 min Scan# 462  
Delta R.T. 0.00 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

Tgt Ion: 96 Resp: 2264  
Ion Ratio Lower Upper  
96 100  
61 62.4 148.2 222.4#  
98 166.4 47.8 71.6#

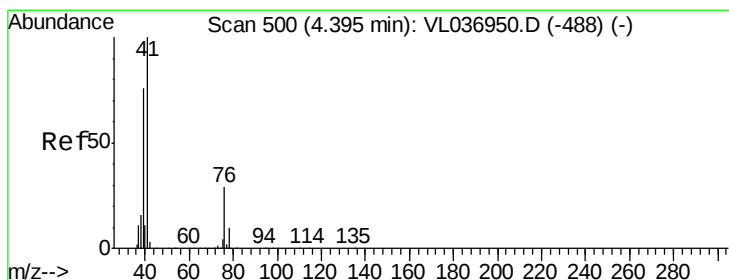
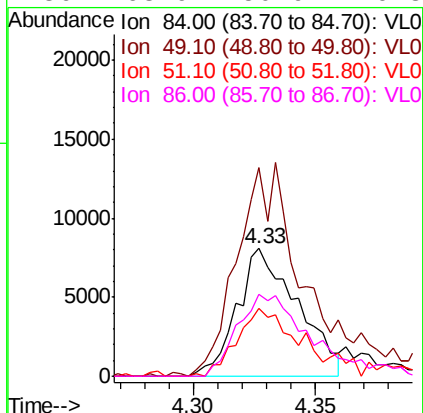
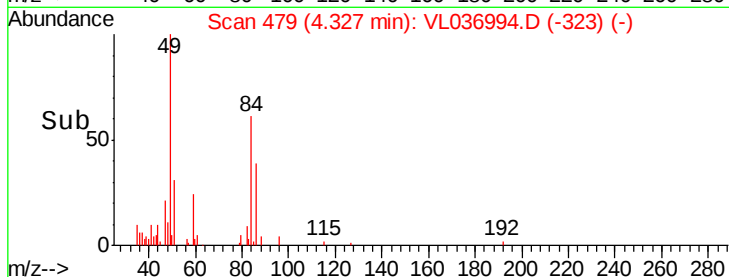
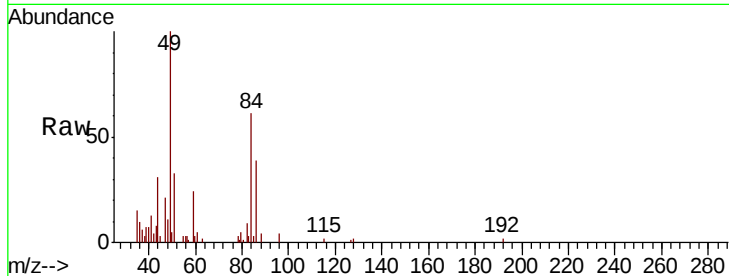




#20  
Methylene Chloride  
Concen: 0.215 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. 0.00 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

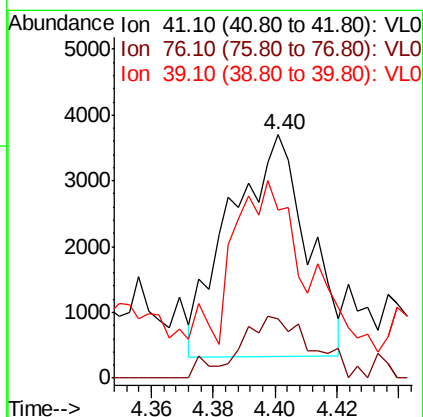
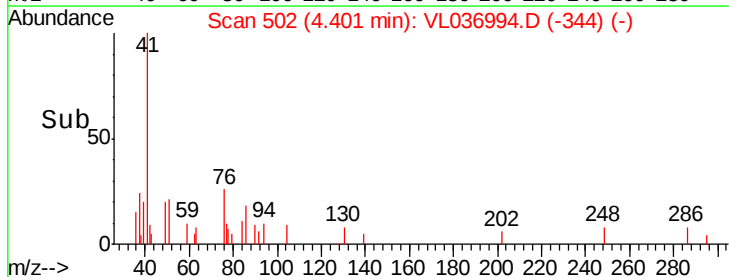
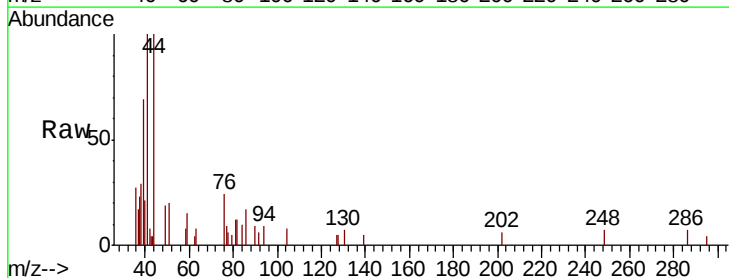
Instrument :  
MSVOA\_L  
ClientSampleId :  
VIBLK

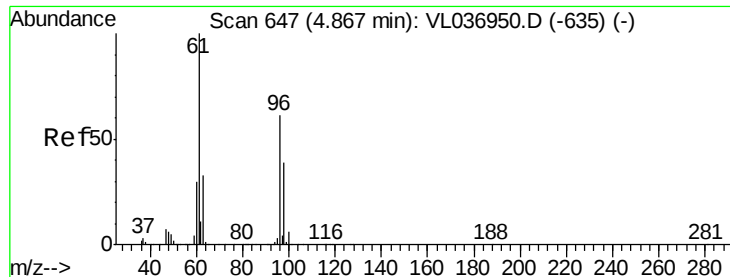
Tot Ion: 84 Resp: 13896  
Ion Ratio Lower Upper  
84 100  
49 163.1 119.8 179.6  
51 53.3 35.1 52.7#  
86 63.9 50.9 76.3



#21  
Allyl Chloride  
Concen: 0.064 ppbv  
RT: 4.40 min Scan# 502  
Delta R.T. 0.01 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

Tgt Ion: 41 Resp: 5779  
Ion Ratio Lower Upper  
41 100  
76 26.2 24.9 37.3  
39 83.1 63.7 95.5





#22

trans-1,2-Dichloroethene

Concen: 0.085 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

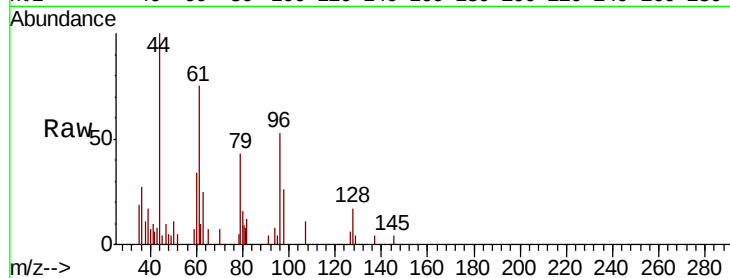
Tot Ion: 96 Resp: 4959

Ion Ratio Lower Upper

96 100

61 139.8 130.6 196.0

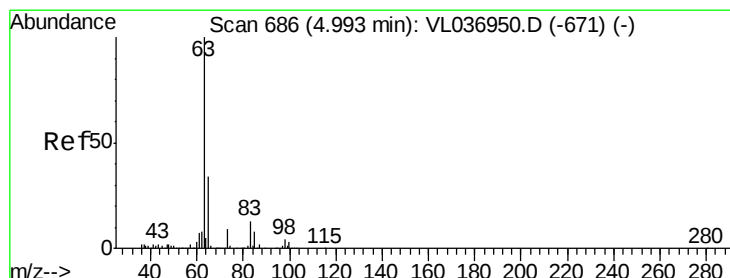
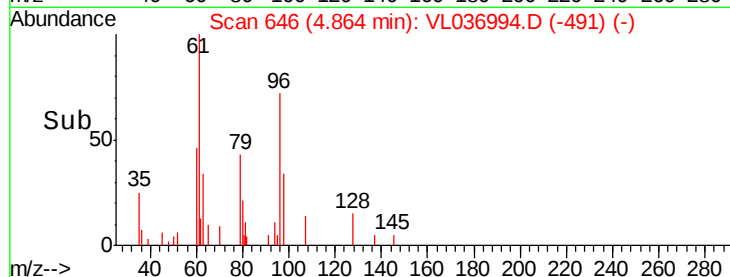
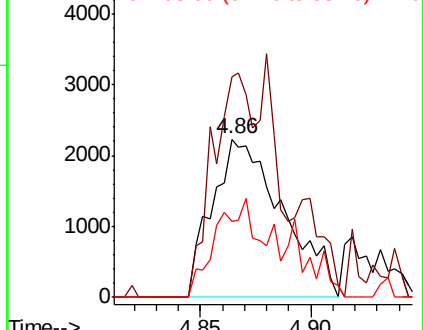
98 48.1 50.8 76.2#



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



#24

1,1-Dichloroethane

Concen: 0.076 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

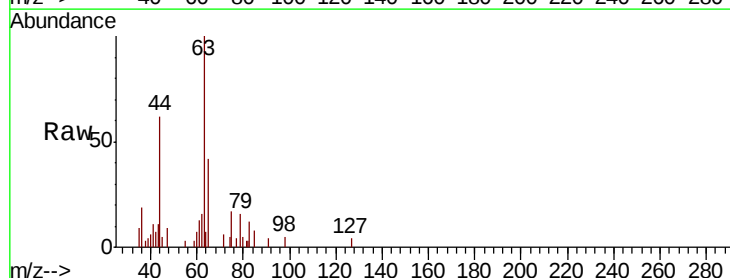
Tgt Ion: 63 Resp: 10408

Ion Ratio Lower Upper

63 100

98 5.3 2.3 6.9

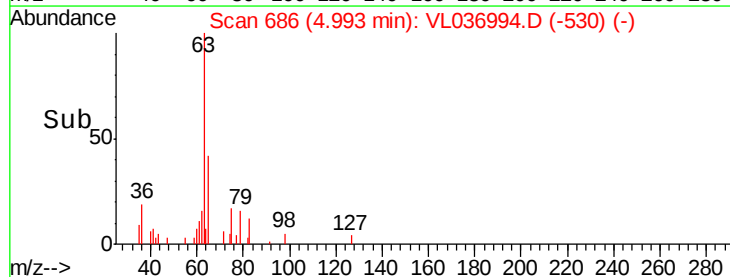
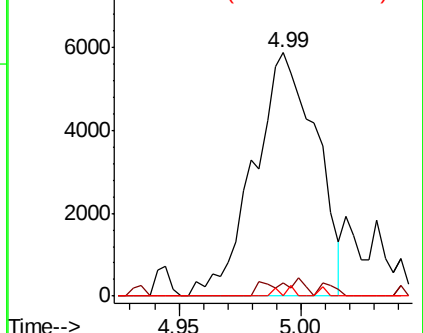
100 0.0 1.4 4.0#

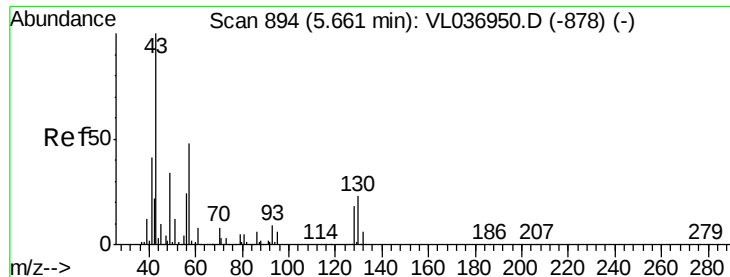


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.042 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

Tot Ion: 43 Resp: 12208

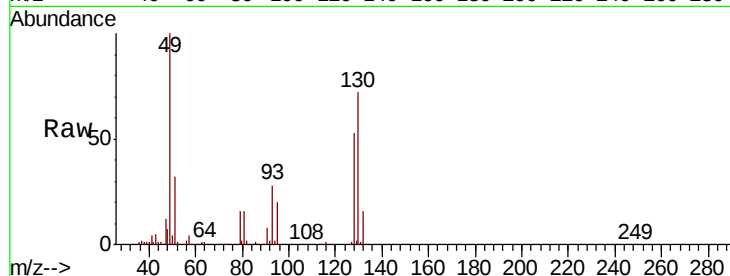
Ion Ratio Lower Upper

43 100

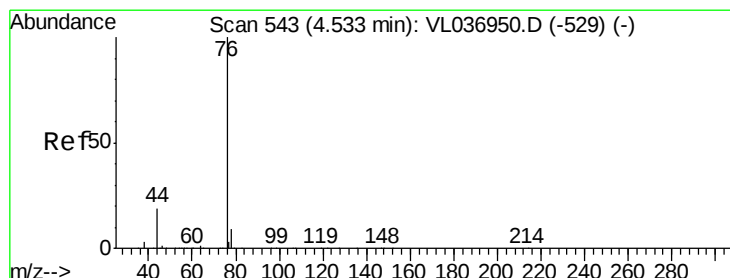
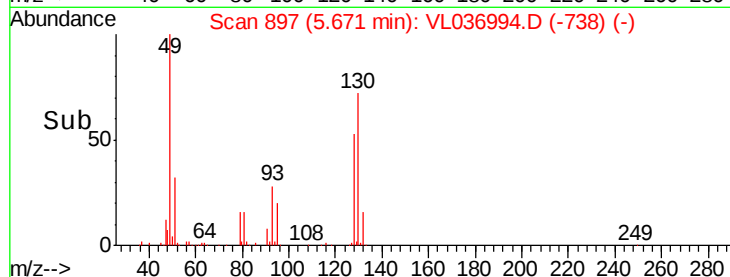
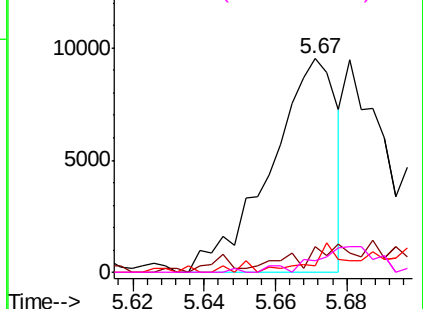
45 0.0 7.8 11.8#

61 20.2 7.8 11.8#

70 0.0 5.6 8.4#



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



#27

Carbon Disulfide

Concen: 0.041 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

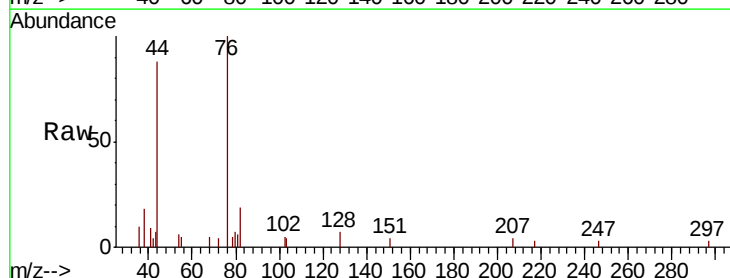
Tgt Ion: 76 Resp: 6177

Ion Ratio Lower Upper

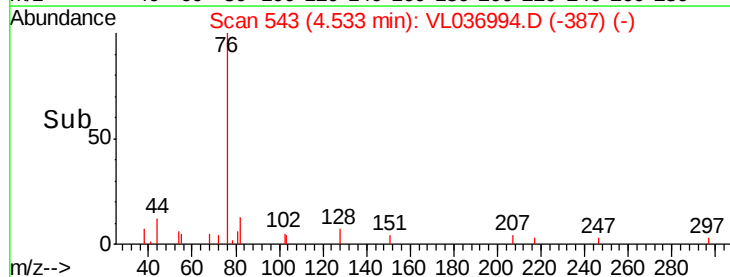
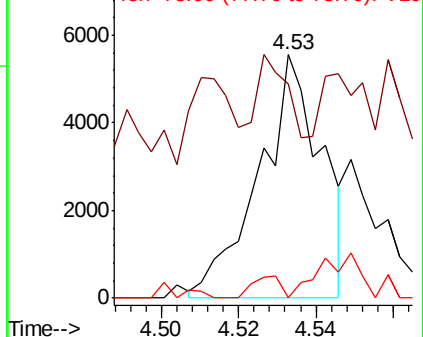
76 100

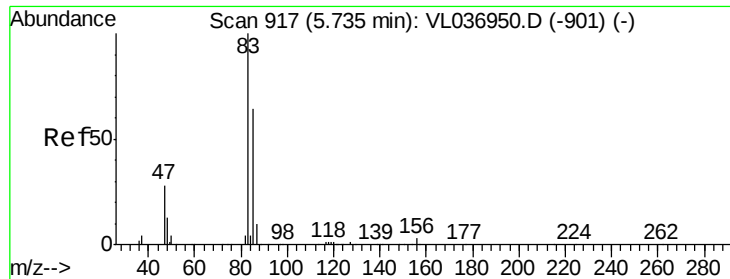
44 130.4 15.5 23.3#

78 0.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.036 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

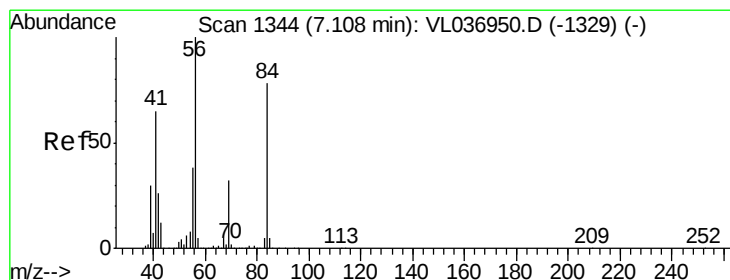
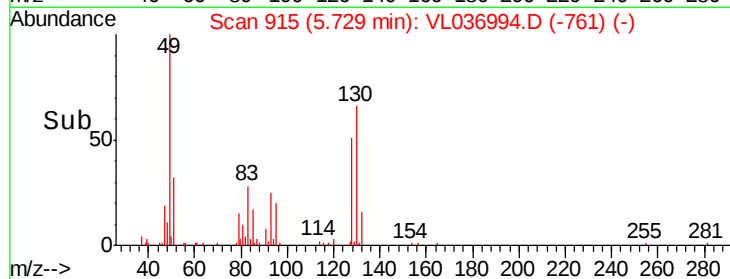
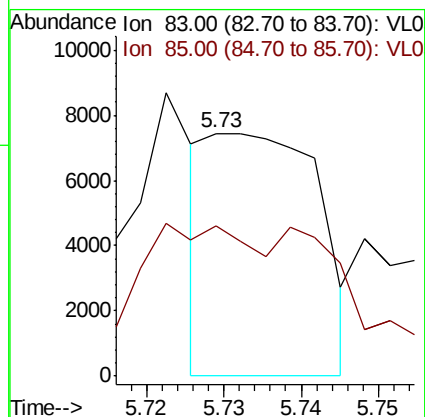
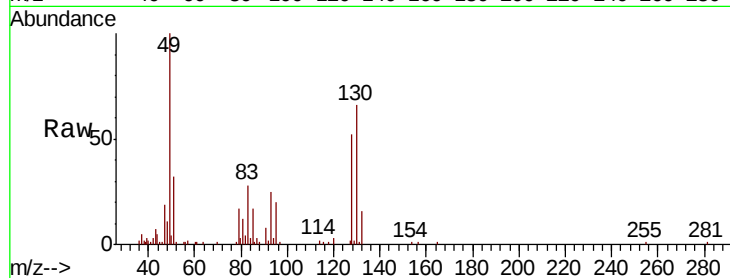
VIBLK

Tot Ion: 83 Resp: 7446

Ion Ratio Lower Upper

83 100

85 24.1 51.1 76.7#



#30

Cyclohexane

Concen: 0.034 ppbv

RT: 7.11 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

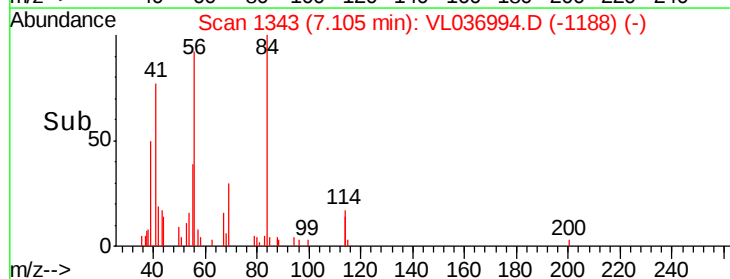
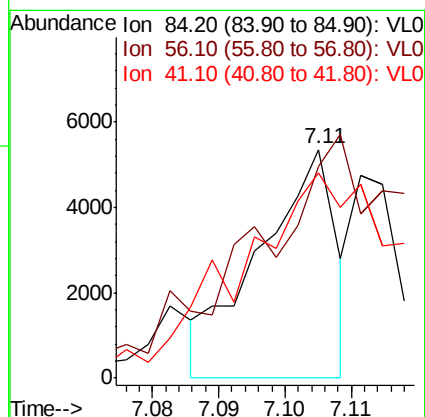
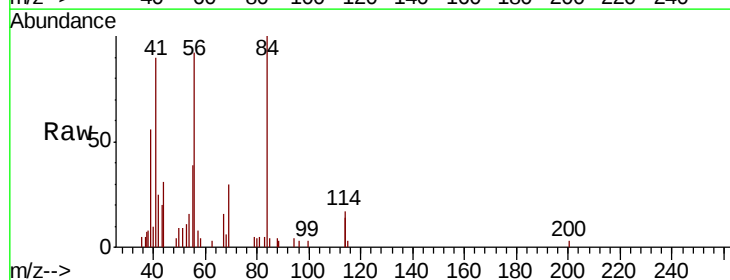
Tgt Ion: 84 Resp: 4283

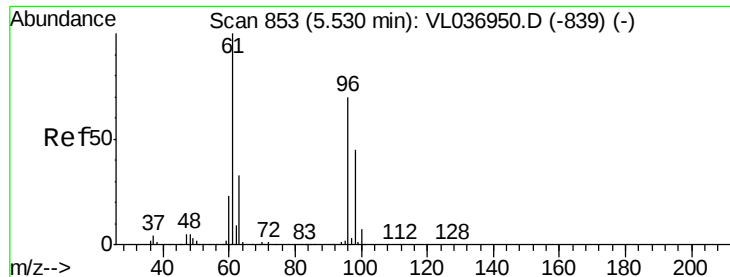
Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

41 230.8 65.5 98.3#





#31

cis-1,2-Dichloroethene

Concen: 0.038 ppbv

RT: 5.53 min Scan# 852

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

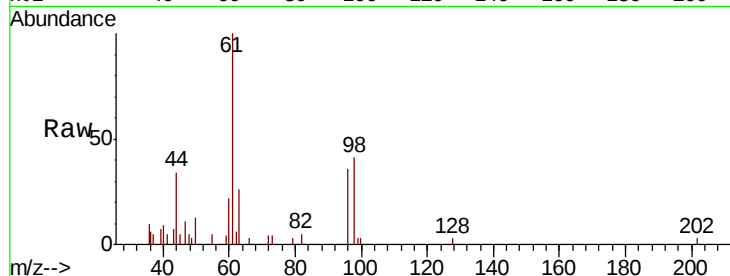
Tot Ion: 61 Resp: 5059

Ion Ratio Lower Upper

61 100

96 36.5 55.9 83.9#

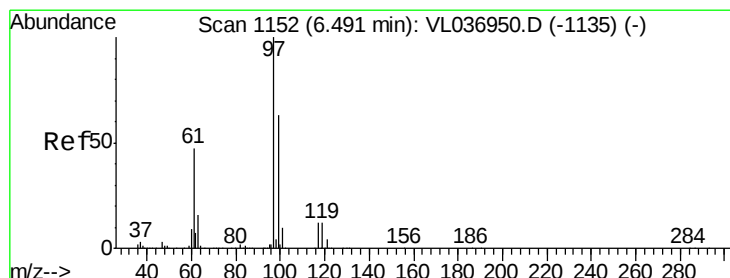
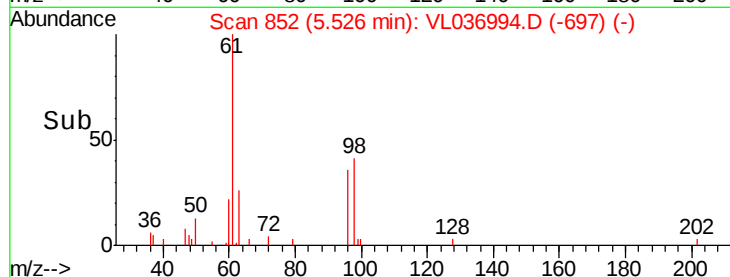
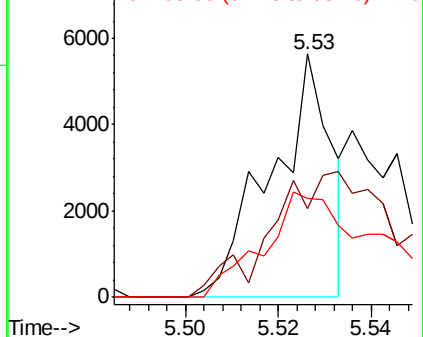
98 40.9 35.6 53.4



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: 0.038 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

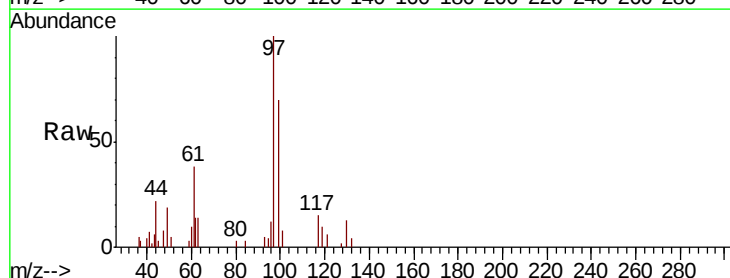
Tgt Ion: 97 Resp: 8465

Ion Ratio Lower Upper

97 100

99 122.4 51.9 77.9#

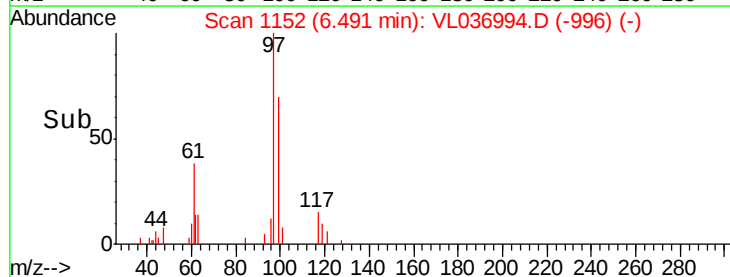
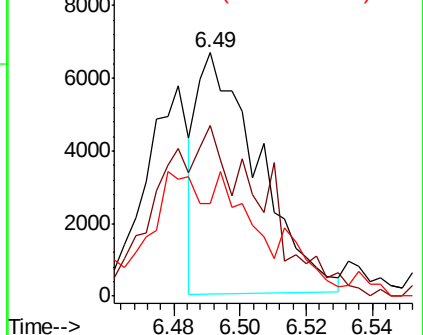
61 0.0 37.6 56.4#

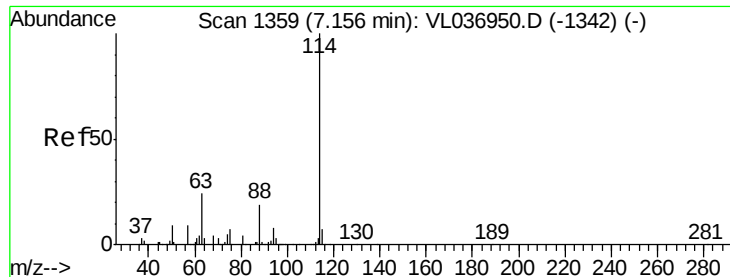


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

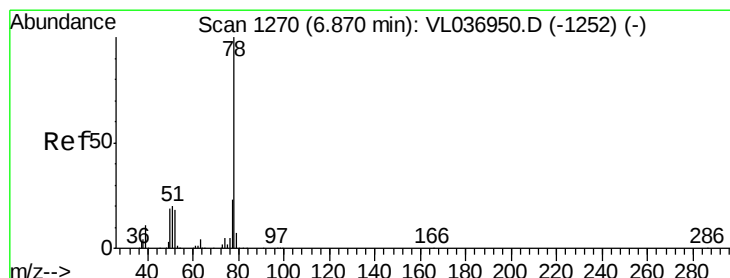
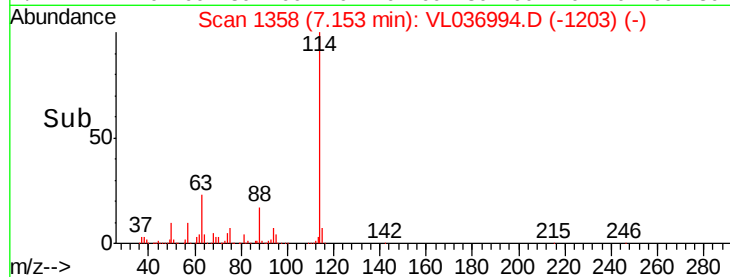
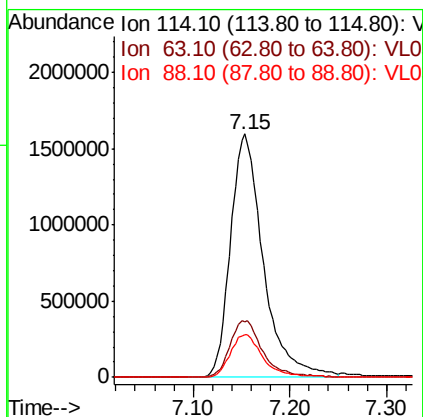
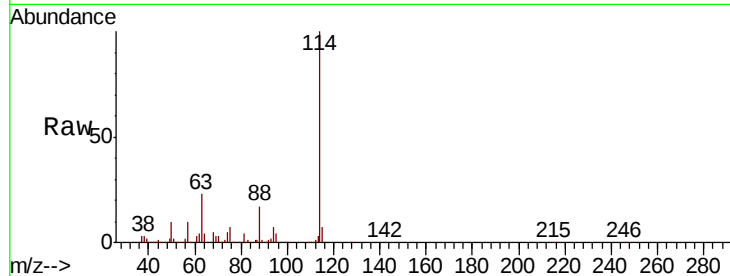




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.15 min Scan# 1358  
 Delta R.T. -0.00 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

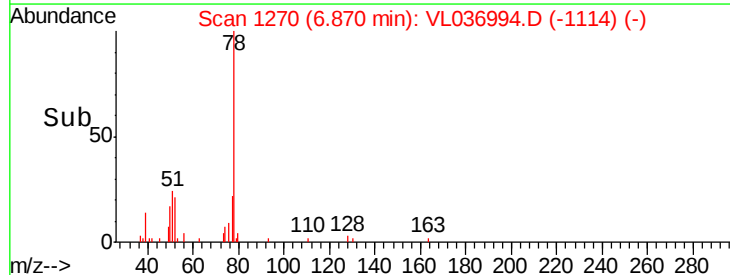
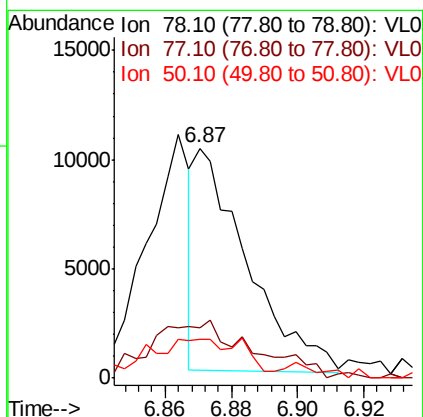
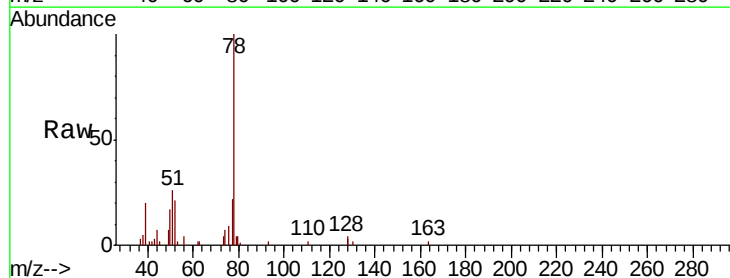
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

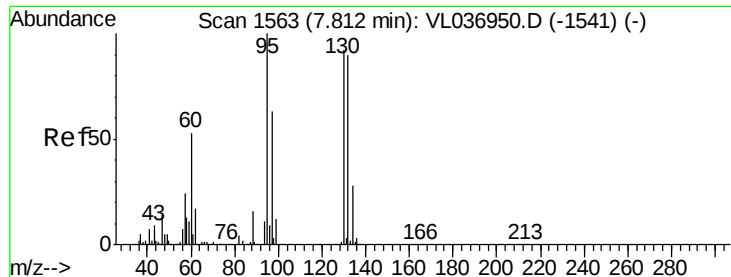
Tot Ion:114 Resp: 3760937  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 19.6 29.4  
 88 17.9 14.6 21.8



#36  
 Benzene  
 Concen: 0.034 ppbv  
 RT: 6.87 min Scan# 1270  
 Delta R.T. 0.00 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

Tgt Ion: 78 Resp: 11045  
 Ion Ratio Lower Upper  
 78 100  
 77 20.6 18.6 28.0  
 50 13.8 15.0 22.4#





#38

Trichloroethene

Concen: 0.039 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

Tot Ion:130 Resp: 5346

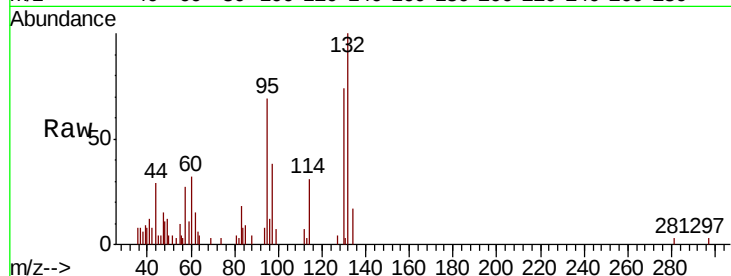
Ion Ratio Lower Upper

130 100

95 91.5 86.9 130.3

132 140.2 78.4 117.6#

97 56.8 55.0 82.6

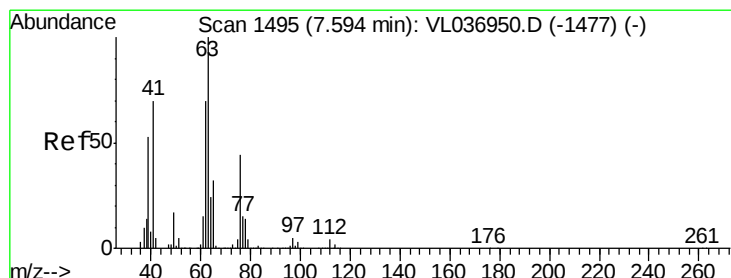
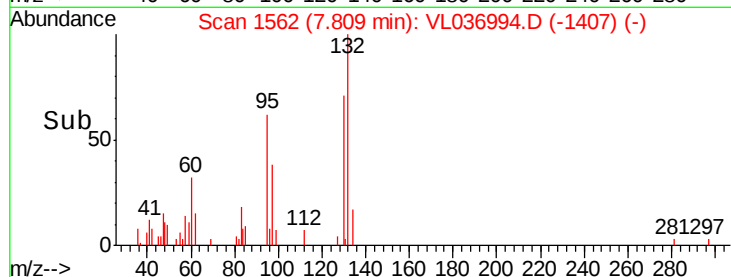
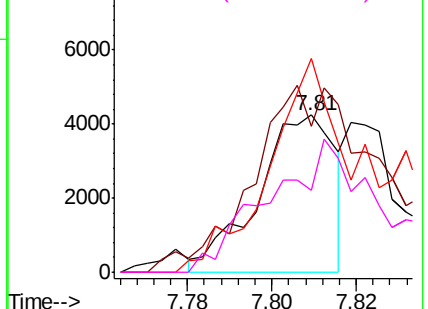


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 6.999 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

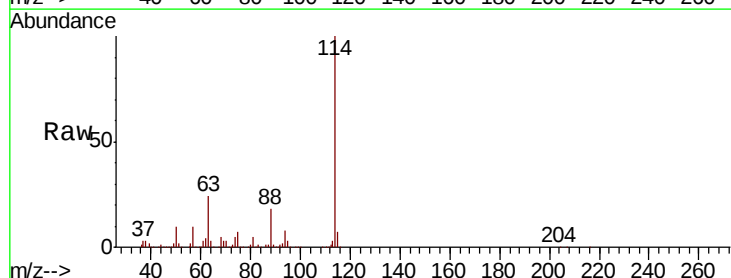
Tgt Ion: 63 Resp: 873430

Ion Ratio Lower Upper

63 100

41 0.1 55.7 83.5#

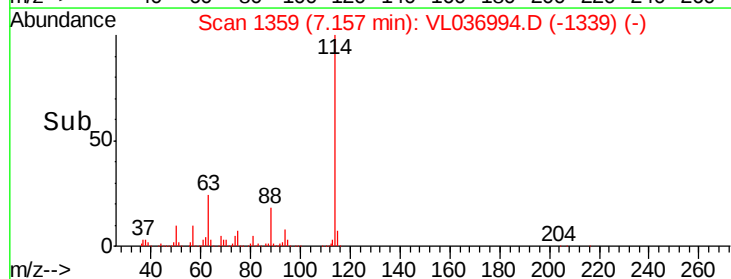
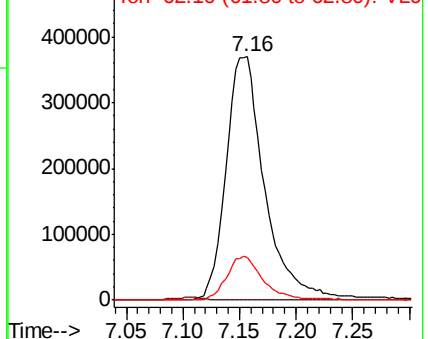
62 17.6 56.2 84.4#

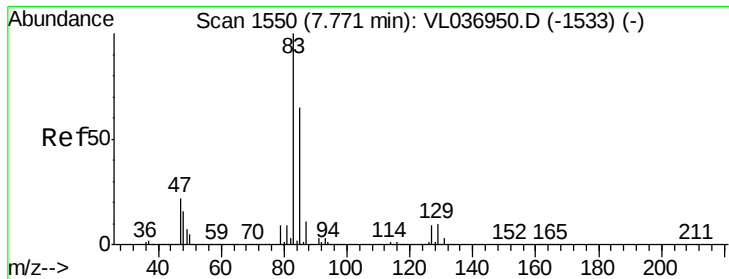


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.036 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

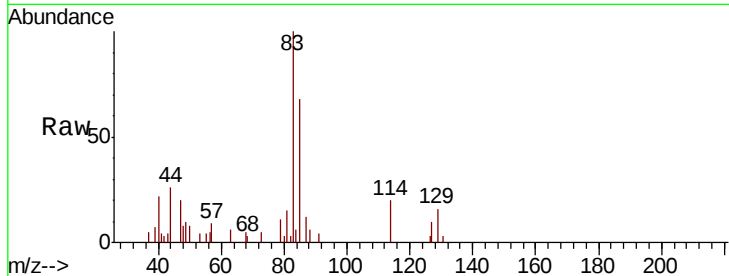
Tot Ion: 83 Resp: 8783

Ion Ratio Lower Upper

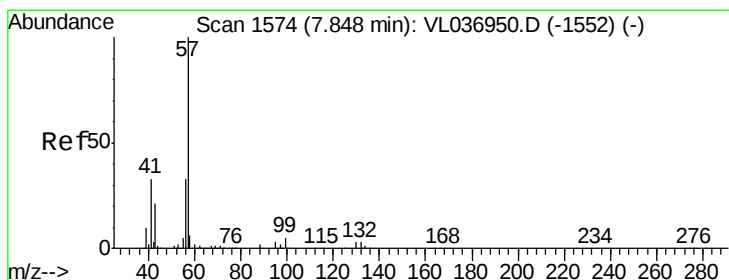
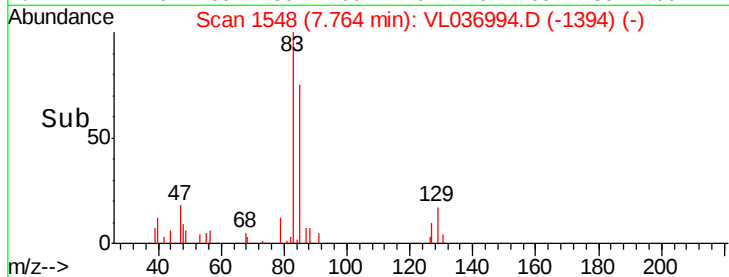
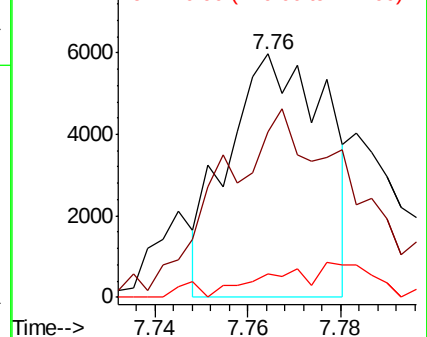
83 100

85 61.6 51.7 77.5

127 4.3 6.9 10.3#



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): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.072 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

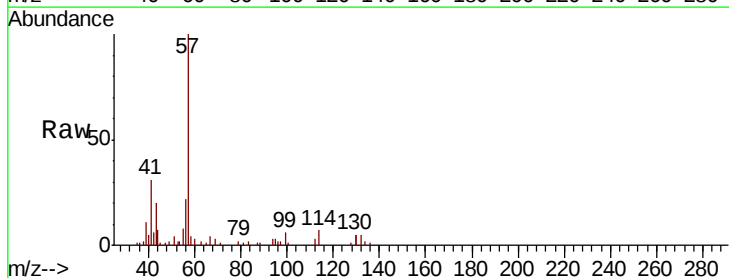
Tgt Ion: 57 Resp: 39753

Ion Ratio Lower Upper

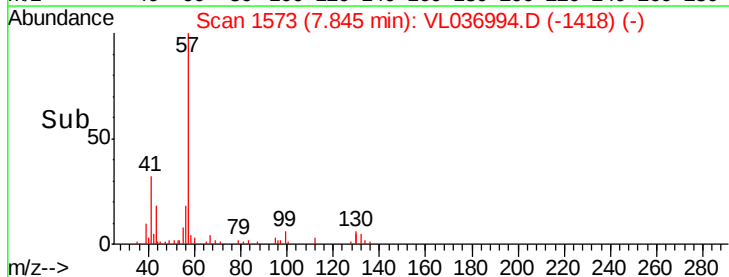
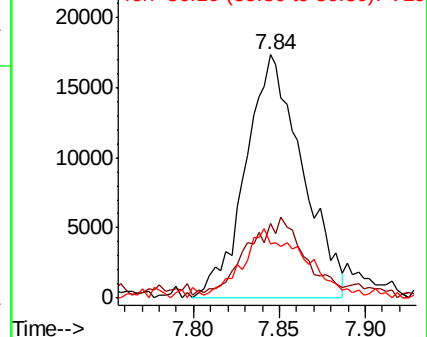
57 100

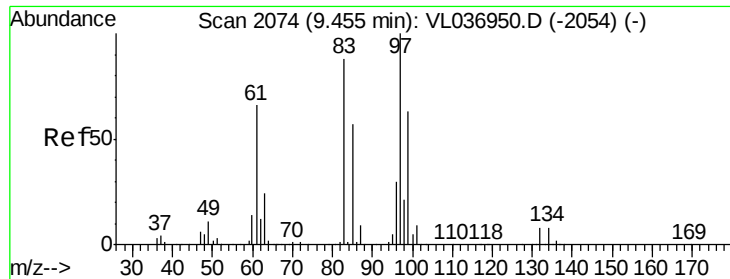
41 34.7 27.0 40.4

56 33.1 25.4 38.2



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





#47

1,1,2-Trichloroethane

Concen: 0.055 ppbv

RT: 9.45 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

Tot Ion: 97 Resp: 7182

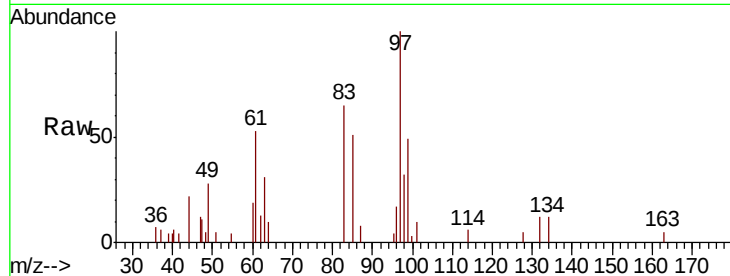
Ion Ratio Lower Upper

97 100

83 57.0 70.4 105.6#

85 47.3 45.5 68.3

99 35.6 50.2 75.2#

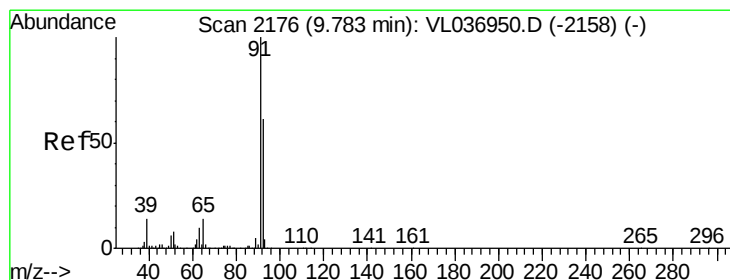
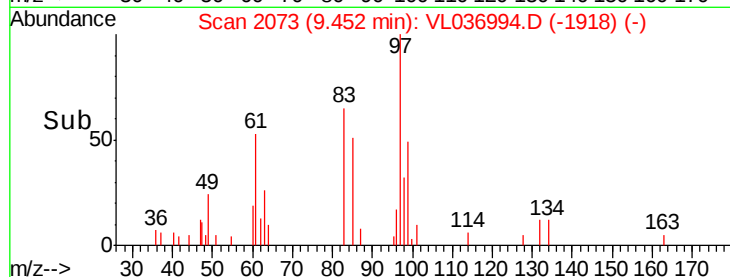
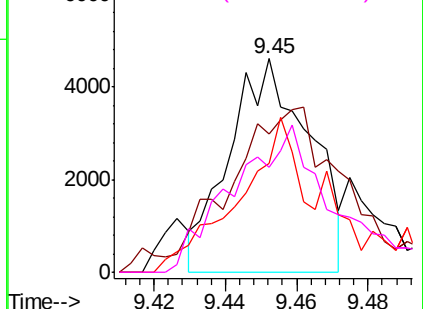


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#53

Toluene

Concen: 0.063 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VL036994.D

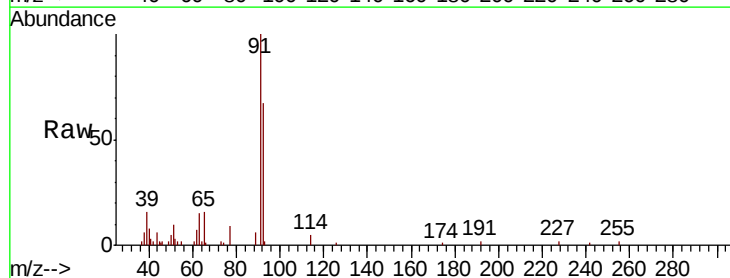
Acq: 19 May 2021 16:29

Tgt Ion: 91 Resp: 24125

Ion Ratio Lower Upper

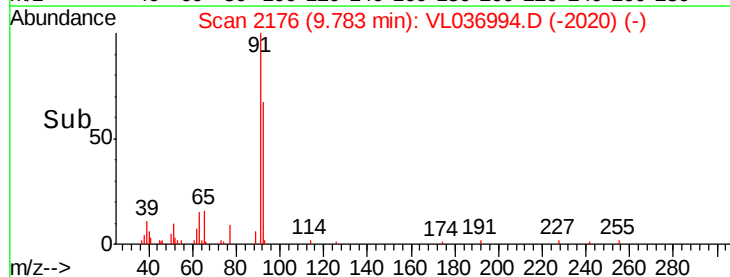
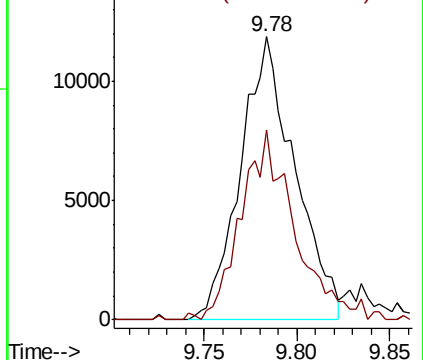
91 100

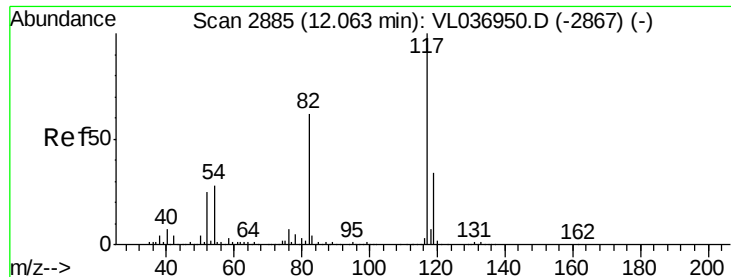
92 66.5 49.5 74.3



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# 2884

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

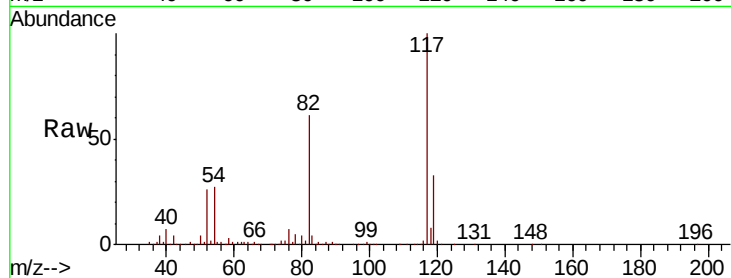
Tot Ion:117 Resp: 3481467

Ion Ratio Lower Upper

117 100

82 61.3 52.6 79.0

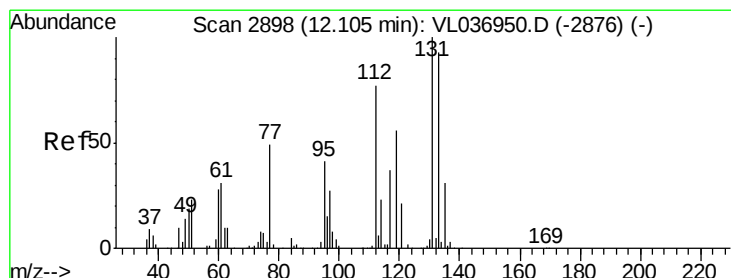
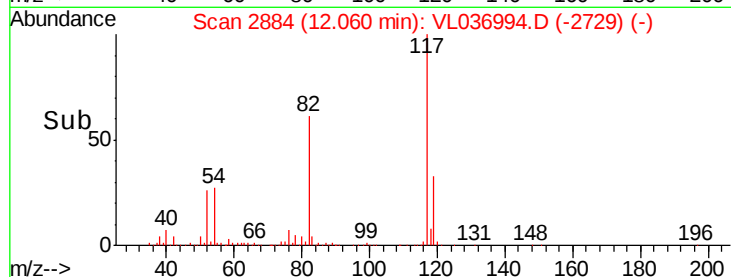
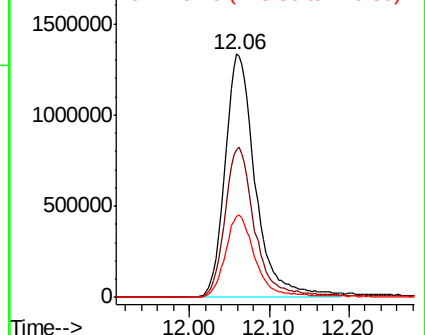
119 34.0 46.6 70.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

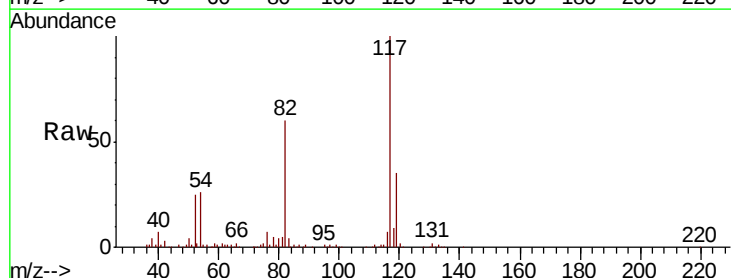
Tgt Ion:131 Resp: 4525

Ion Ratio Lower Upper

131 100

133 180.5 76.9 115.3#

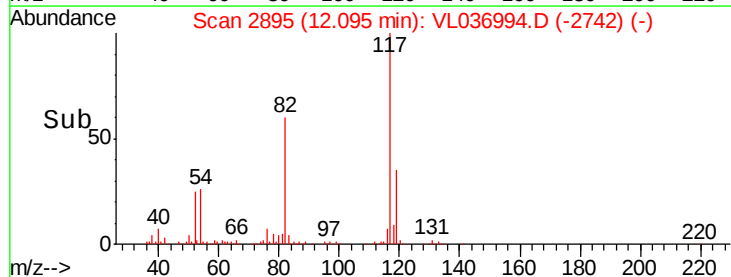
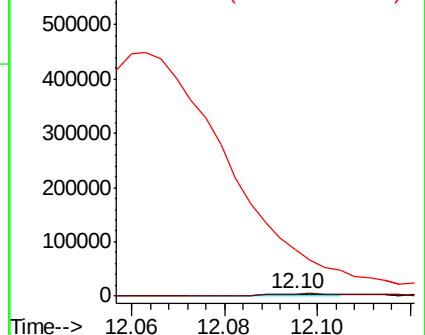
119 0.0 120.2 180.4#

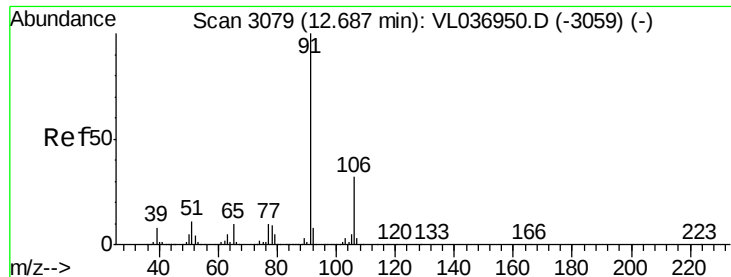


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. 0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

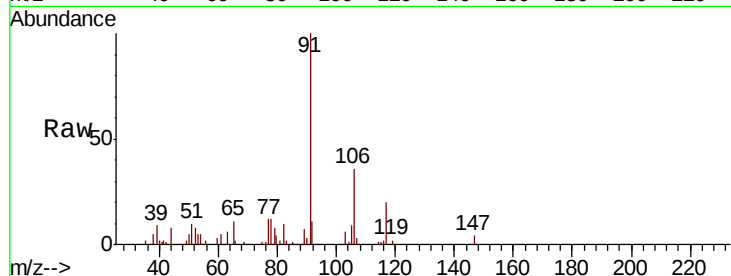
VIBLK

Tot Ion: 91 Resp: 20102

Ion Ratio Lower Upper

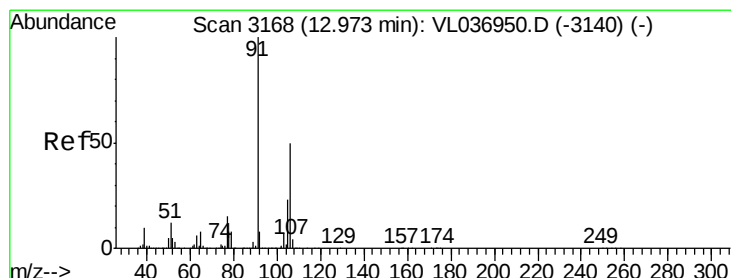
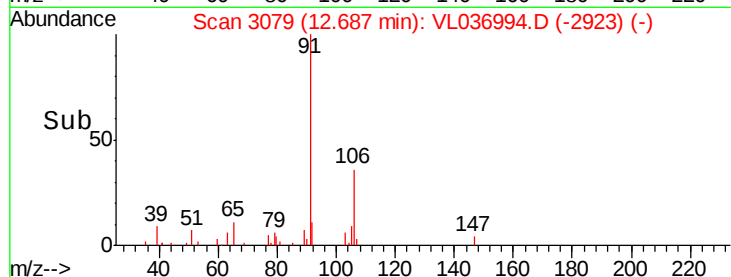
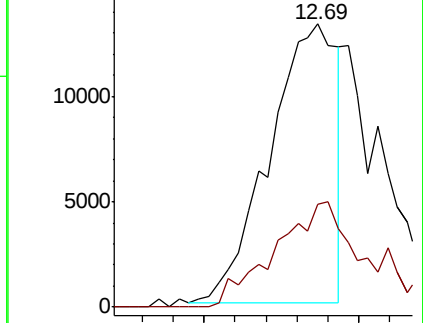
91 100

106 36.9 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.073 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VL036994.D

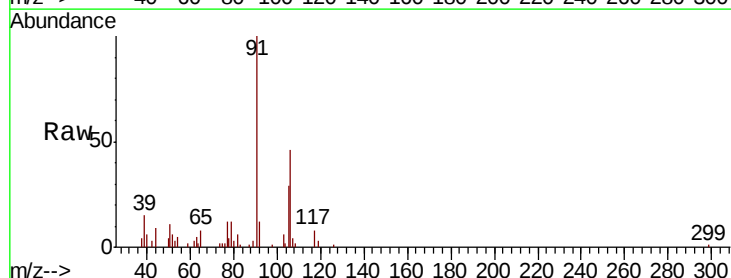
Acq: 19 May 2021 16:29

Tgt Ion: 91 Resp: 29533

Ion Ratio Lower Upper

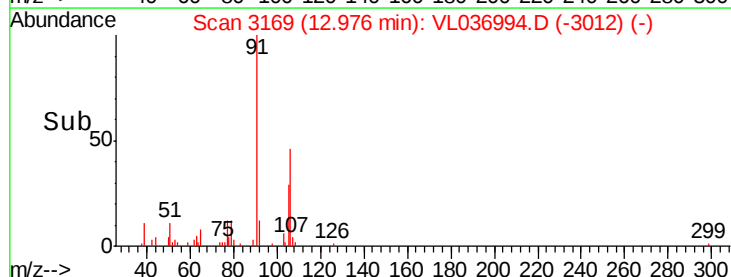
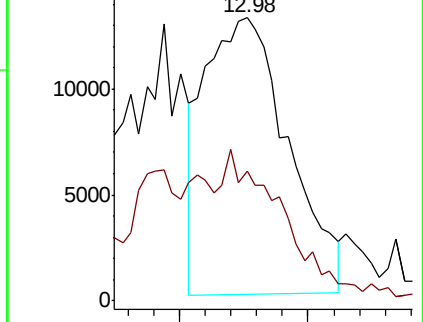
91 100

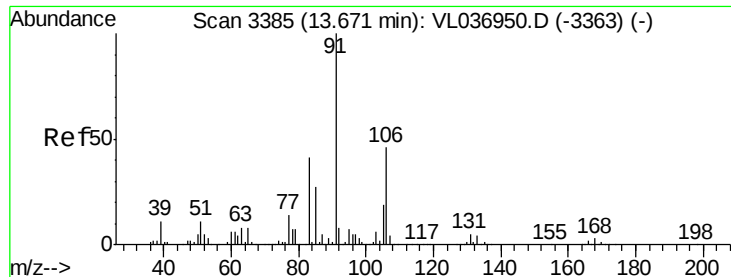
106 88.5 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

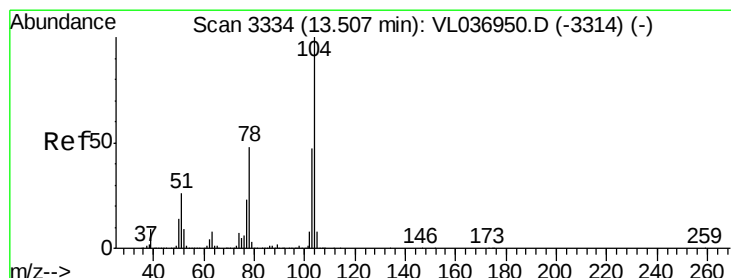
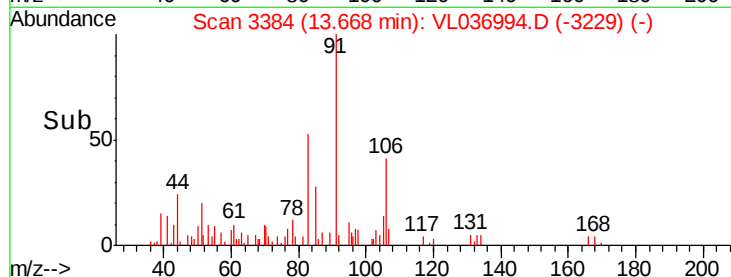
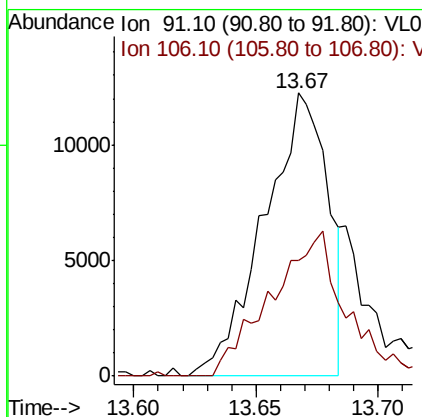
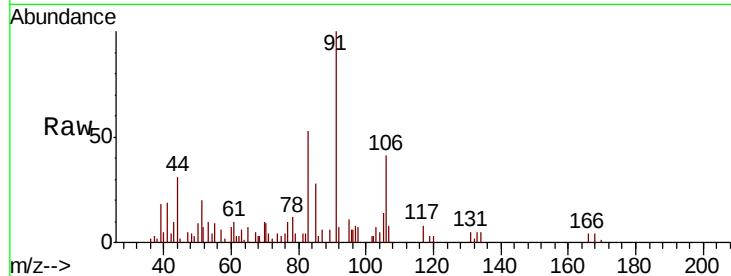




#60  
o-Xylene  
Concen: 0.057 ppbv  
RT: 13.67 min Scan# 3384  
Delta R.T. -0.00 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

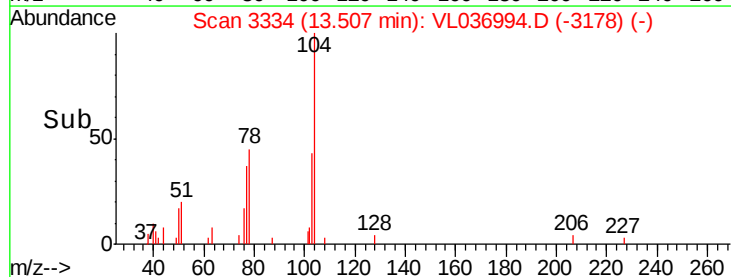
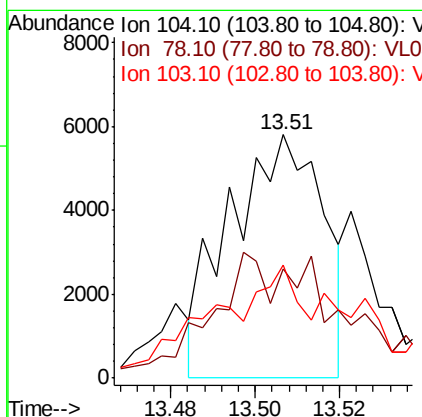
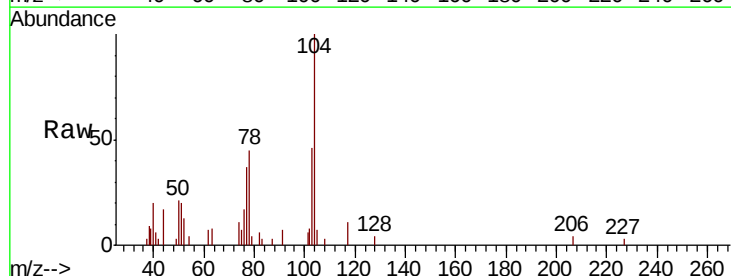
Instrument :  
MSVOA\_L  
ClientSampled :  
VIBLK

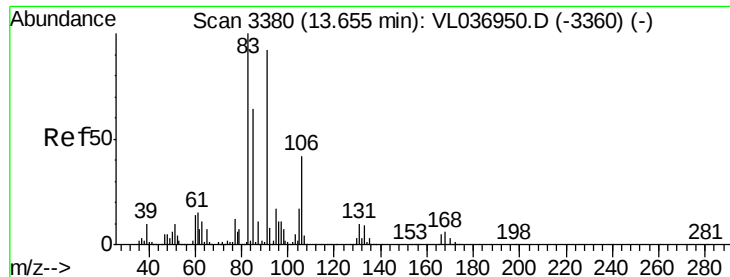
Tot Ion: 91 Resp: 22113  
Ion Ratio Lower Upper  
91 100  
106 0.0 23.4 70.3#



#61  
Styrene  
Concen: 0.041 ppbv  
RT: 13.51 min Scan# 3334  
Delta R.T. 0.00 min  
Lab File: VL036994.D  
Acq: 19 May 2021 16:29

Tgt Ion: 104 Resp: 8979  
Ion Ratio Lower Upper  
104 100  
78 73.5 39.0 58.6#  
103 77.6 38.0 57.0#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.030 ppbv

RT: 13.65 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

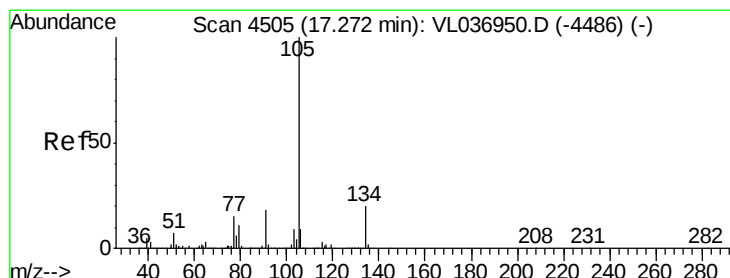
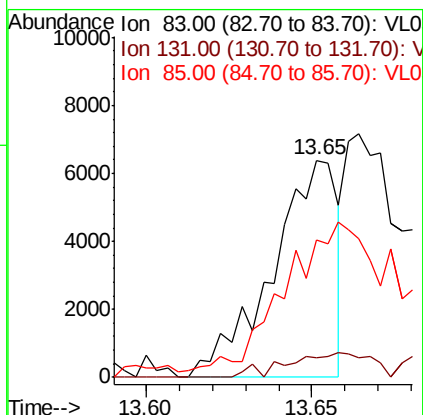
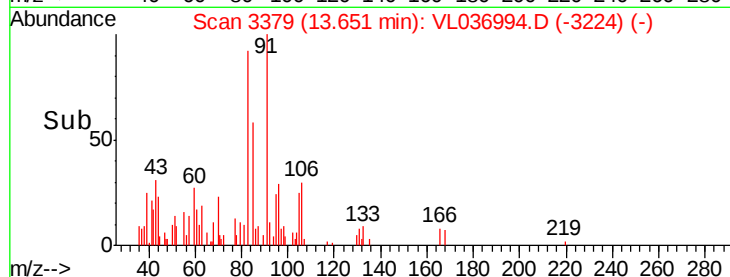
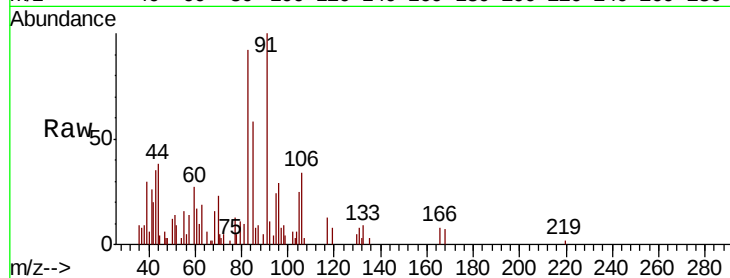
Tot Ion: 83 Resp: 8755

Ion Ratio Lower Upper

83 100

131 22.5 5.0 15.0#

85 171.0 32.9 98.6#



#67

sec-Butylbenzene

Concen: 0.056 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. 0.01 min

Lab File: VL036994.D

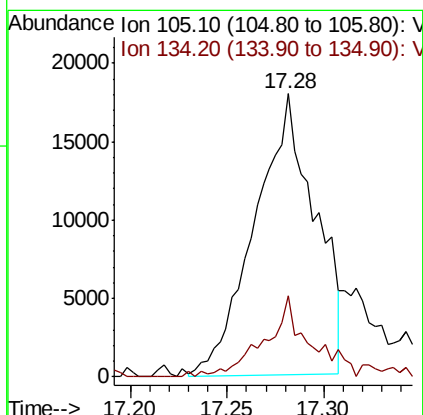
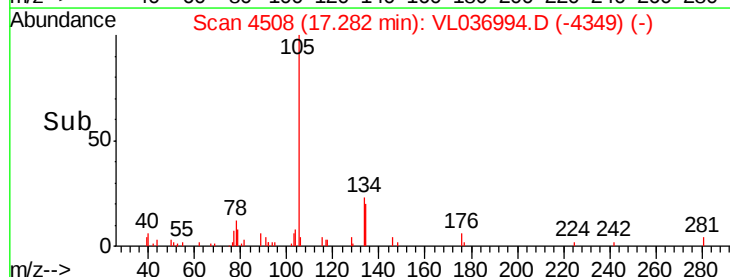
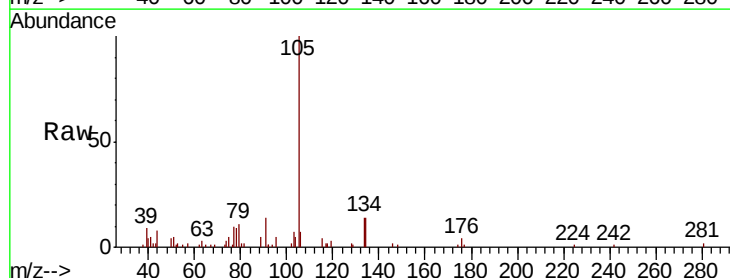
Acq: 19 May 2021 16:29

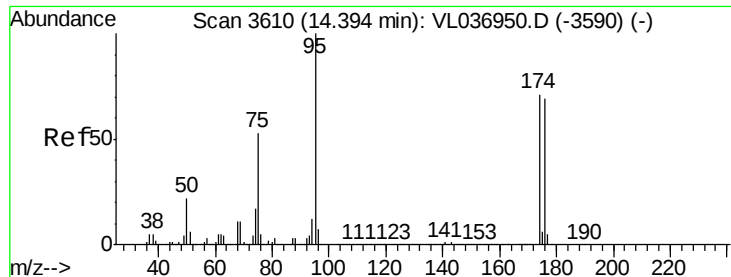
Tgt Ion:105 Resp: 38610

Ion Ratio Lower Upper

105 100

134 22.4 15.6 23.4

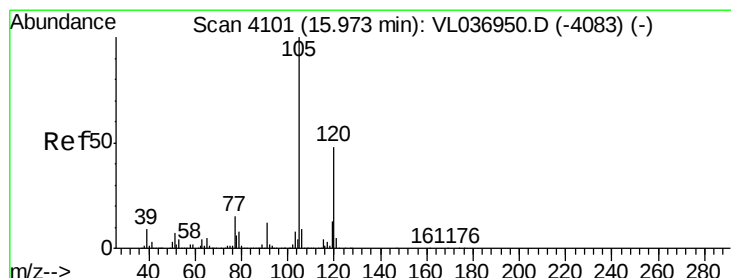
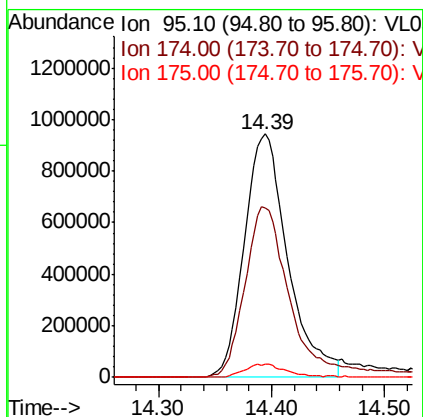
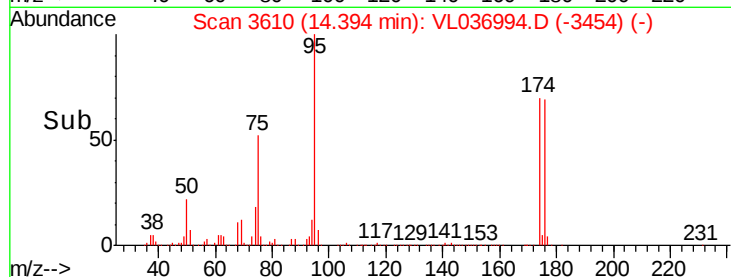
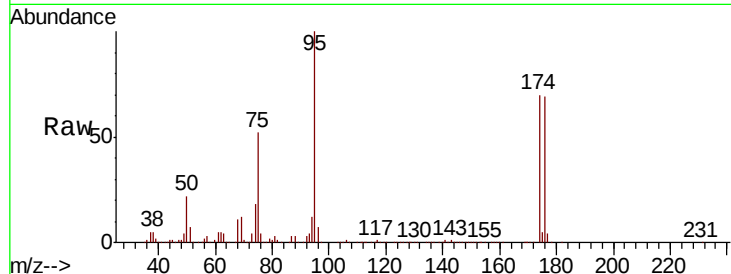




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.635 ppbv  
 RT: 14.39 min Scan# 3610  
 Delta R.T. 0.00 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

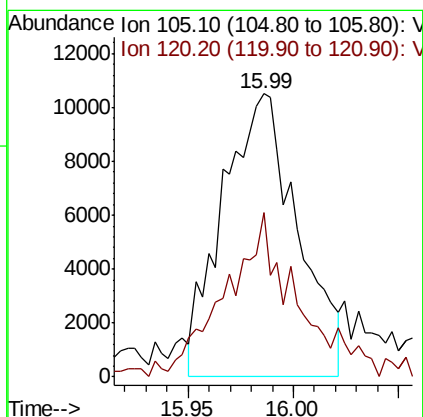
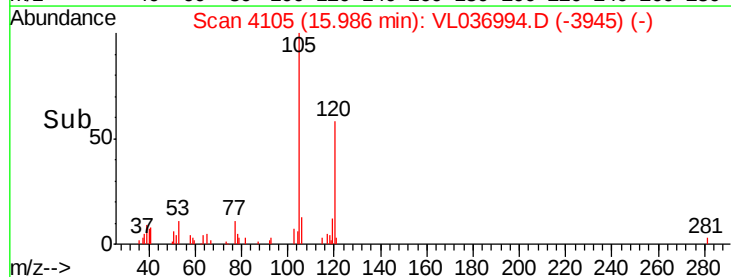
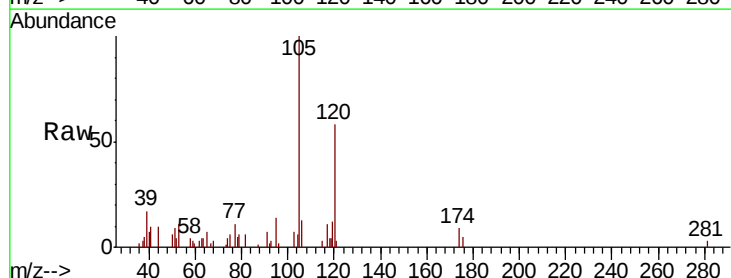
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VIBLK

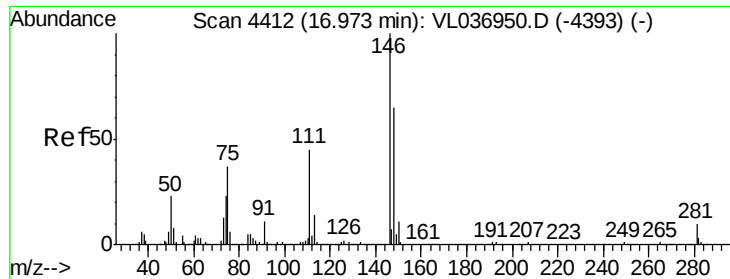
Tot Ion: 95 Resp: 2519865  
 Ion Ratio Lower Upper  
 95 100  
 174 76.8 58.4 87.6  
 175 5.7 4.4 6.6



#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.060 ppbv  
 RT: 15.99 min Scan# 4105  
 Delta R.T. 0.01 min  
 Lab File: VL036994.D  
 Acq: 19 May 2021 16:29

Tgt Ion: 105 Resp: 25965  
 Ion Ratio Lower Upper  
 105 100  
 120 56.5 38.6 58.0





#75

1,3-Dichlorobenzene

Concen: 0.034 ppbv

RT: 16.97 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

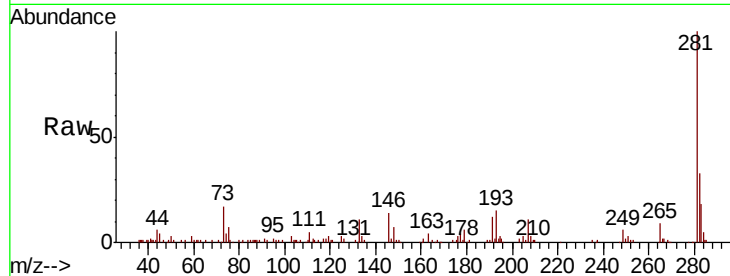
Tot Ion:146 Resp: 9271

Ion Ratio Lower Upper

146 100

111 0.0 22.2 66.6#

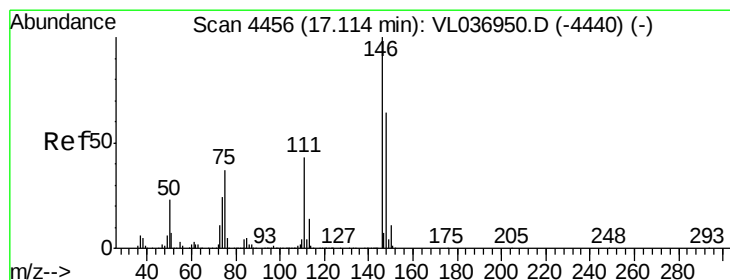
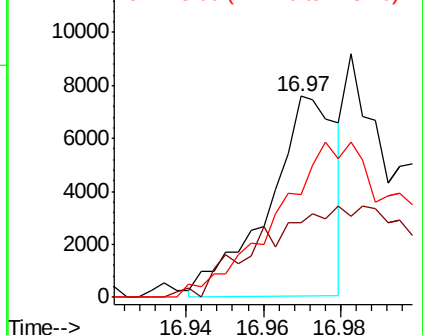
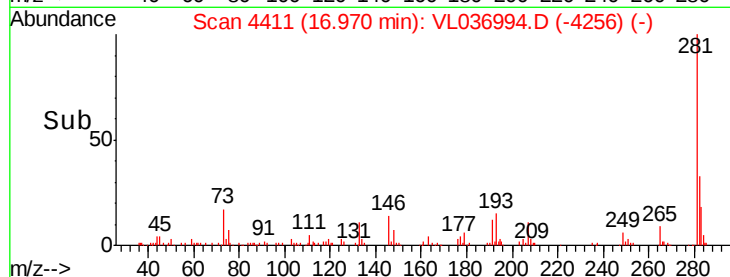
148 0.0 32.3 96.8#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.051 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.00 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

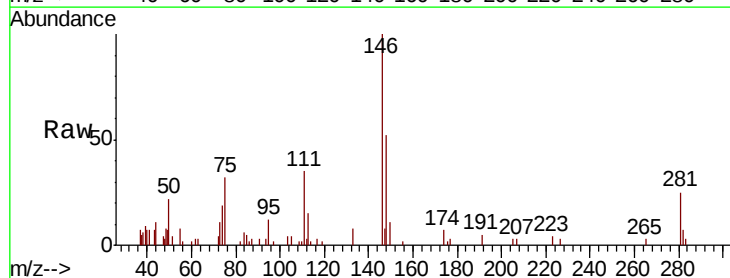
Tgt Ion:146 Resp: 14190

Ion Ratio Lower Upper

146 100

111 83.8 22.6 67.7#

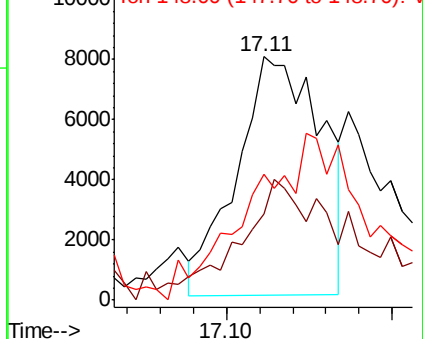
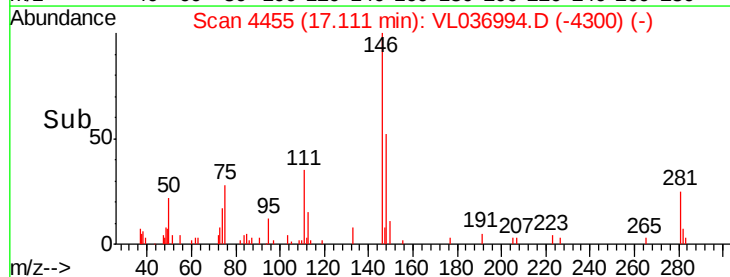
148 106.1 33.5 100.5#

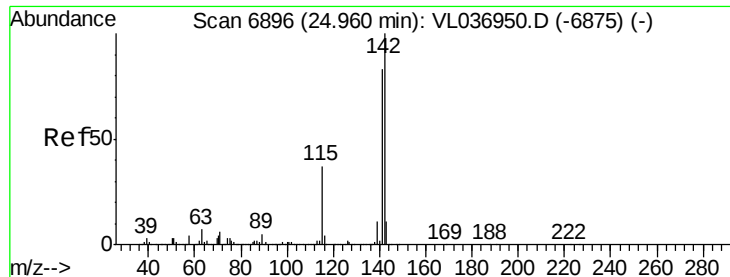


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#80

Naphthalene, 2-methyl-

Concen: 0.286 ppbv

RT: 24.99 min Scan# 6904

Delta R.T. 0.03 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

Instrument :

MSVOA\_L

ClientSampleId :

VIBLK

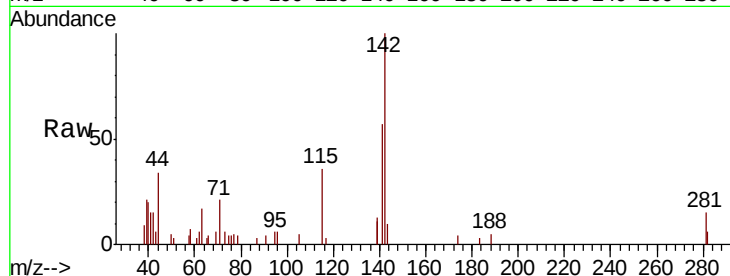
Tot Ion:142 Resp: 21806

Ion Ratio Lower Upper

142 100

141 0.0 69.3 103.9#

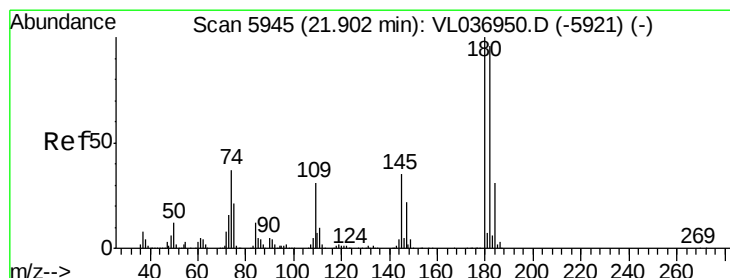
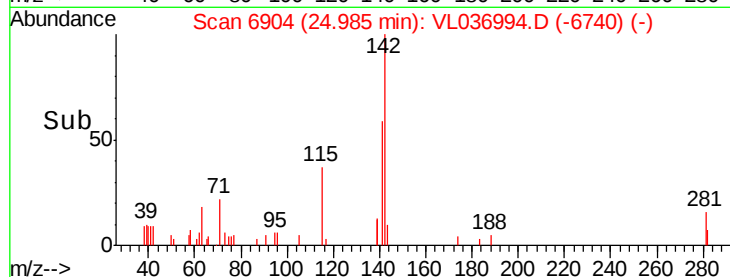
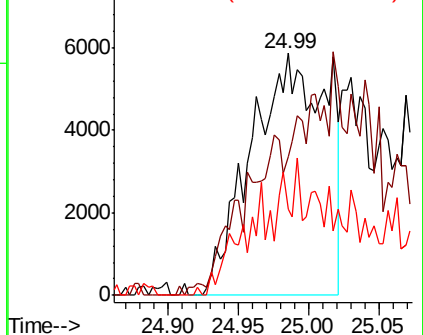
115 40.4 29.1 43.7



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.030 ppbv

RT: 21.90 min Scan# 5943

Delta R.T. -0.01 min

Lab File: VL036994.D

Acq: 19 May 2021 16:29

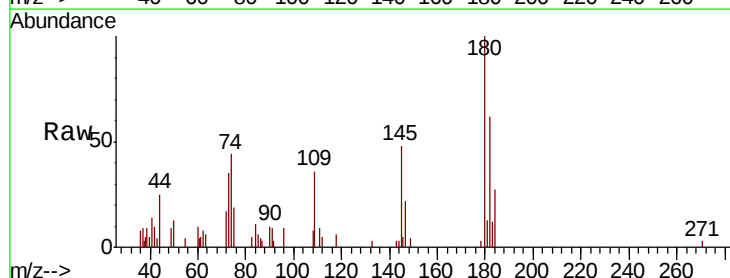
Tgt Ion:180 Resp: 6428

Ion Ratio Lower Upper

180 100

182 0.0 81.7 122.5#

184 0.0 24.9 37.3#



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

