

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL050119\  
 Data File : VL033621.D  
 Acq On : 1 May 2019 17:26  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

Quant Time: May 02 06:39:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050119AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 02 06:29:02 2019  
 QLast Update : Thu May 02 06:29:02 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 1167323  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2846278  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 3609691  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 2356855  | 8.58     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 85.80% |

## Target Compounds

|                                | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 3.07 | 85   | 1696371  | 9.643  | ppbv  | 99     |
| 3) Chlorodifluoromethane       | 3.01 | 51   | 1251544  | 8.967  | ppbv  | 99     |
| 4) Chloromethane               | 3.17 | 50   | 705083   | 9.275  | ppbv  | 99     |
| 5) Vinyl Chloride              | 3.29 | 62   | 693995   | 8.701  | ppbv  | 100    |
| 6) Bromomethane                | 3.51 | 94   | 446658   | 9.516  | ppbv  | 96     |
| 7) Chloroethane                | 3.60 | 64   | 262084   | 9.857  | ppbv  | 100    |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85   | 1763605  | 9.215  | ppbv  | 100    |
| 9) Propene                     | 3.03 | 41   | 556928   | 13.936 | ppbv  | 84     |
| 10) Heptane                    | 8.24 | 43   | 1473875  | 9.974  | ppbv  | 99     |
| 11) Trichlorofluoromethane     | 4.00 | 101  | 2017359  | 9.648  | ppbv  | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101  | 1433529  | 9.996  | ppbv  | 100    |
| 13) Ethanol                    | 3.64 | 45   | 131922   | 7.281  | ppbv  | 98     |
| 14) Bromoethene                | 3.78 | 108  | 577376   | 9.809  | ppbv  | 99     |
| 15) Acetone                    | 3.90 | 43   | 1243161  | 8.748  | ppbv  | 99     |
| 16) 1,3-Butadiene              | 3.36 | 39   | 623297   | 9.745  | ppbv  | 100    |
| 17) tert-Butyl alcohol         | 4.35 | 59   | 1120230  | 9.129  | ppbv  | 99     |
| 18) 1,1-Dichloroethene         | 4.35 | 96   | 616644   | 9.895  | ppbv  | 96     |
| 19) Isopropyl Alcohol          | 4.02 | 45   | 869202   | 8.911  | ppbv  | 100    |
| 20) Methylene Chloride         | 4.41 | 84   | 508589   | 9.183  | ppbv  | 93     |
| 21) Allyl Chloride             | 4.47 | 41   | 899224   | 10.059 | ppbv  | 98     |
| 22) trans-1,2-Dichloroethene   | 4.96 | 96   | 654626   | 10.725 | ppbv  | 97     |
| 23) Vinyl Acetate              | 5.15 | 43   | 2166795  | 10.253 | ppbv  | 99     |
| 24) 1,1-Dichloroethane         | 5.09 | 63   | 1499299  | 9.530  | ppbv  | 99     |
| 25) Ethyl Acetate              | 5.76 | 43   | 2498695  | 9.264  | ppbv  | 100    |
| 26) Hexane                     | 5.78 | 57   | 1101130  | 9.695  | ppbv  | 98     |
| 27) Carbon Disulfide           | 4.62 | 76   | 1583431  | 11.512 | ppbv  | 98     |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73   | 1951993  | 10.192 | ppbv  | 99     |
| 29) Chloroform                 | 5.85 | 83   | 1880084  | 9.032  | ppbv  | 98     |
| 30) Cyclohexane                | 7.24 | 84   | 982828   | 10.222 | ppbv  | 99     |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61   | 1155001  | 10.076 | ppbv  | 98     |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97   | 1969594  | 9.040  | ppbv  | 100    |
| 34) 2-Butanone                 | 5.33 | 43   | 1672216  | 9.570  | ppbv  | 100    |
| 35) Carbon Tetrachloride       | 7.13 | 117  | 2085932  | 9.251  | ppbv  | 100    |
| 36) Benzene                    | 7.00 | 78   | 2394857  | 9.875  | ppbv  | 99     |
| 37) 1,2-Dichloroethane         | 6.41 | 62   | 1466324  | 9.099  | ppbv  | 99     |
| 38) Trichloroethene            | 7.96 | 130  | 925231   | 9.566  | ppbv  | 98     |
| 39) 1,2-Dichloropropane        | 7.73 | 63   | 879685   | 9.619  | ppbv  | 96     |
| 40) 1,4-Dioxane                | 7.95 | 88   | 351705   | 9.465  | ppbv  | 88     |
| 41) Tetrahydrofuran            | 6.15 | 42   | 947793   | 10.157 | ppbv  | 99     |
| 42) Bromodichloromethane       | 7.91 | 83   | 2067250  | 9.479  | ppbv  | 99     |
| 43) Methyl Methacrylate        | 8.13 | 69   | 942072   | 10.258 | ppbv  | 99     |

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 ICVVL050119

Quant Time: May 02 06:39:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL050119AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 02 06:29:02 2019  
 QLast Update : Thu May 02 06:29:02 2019  
 Response via : Initial Calibration

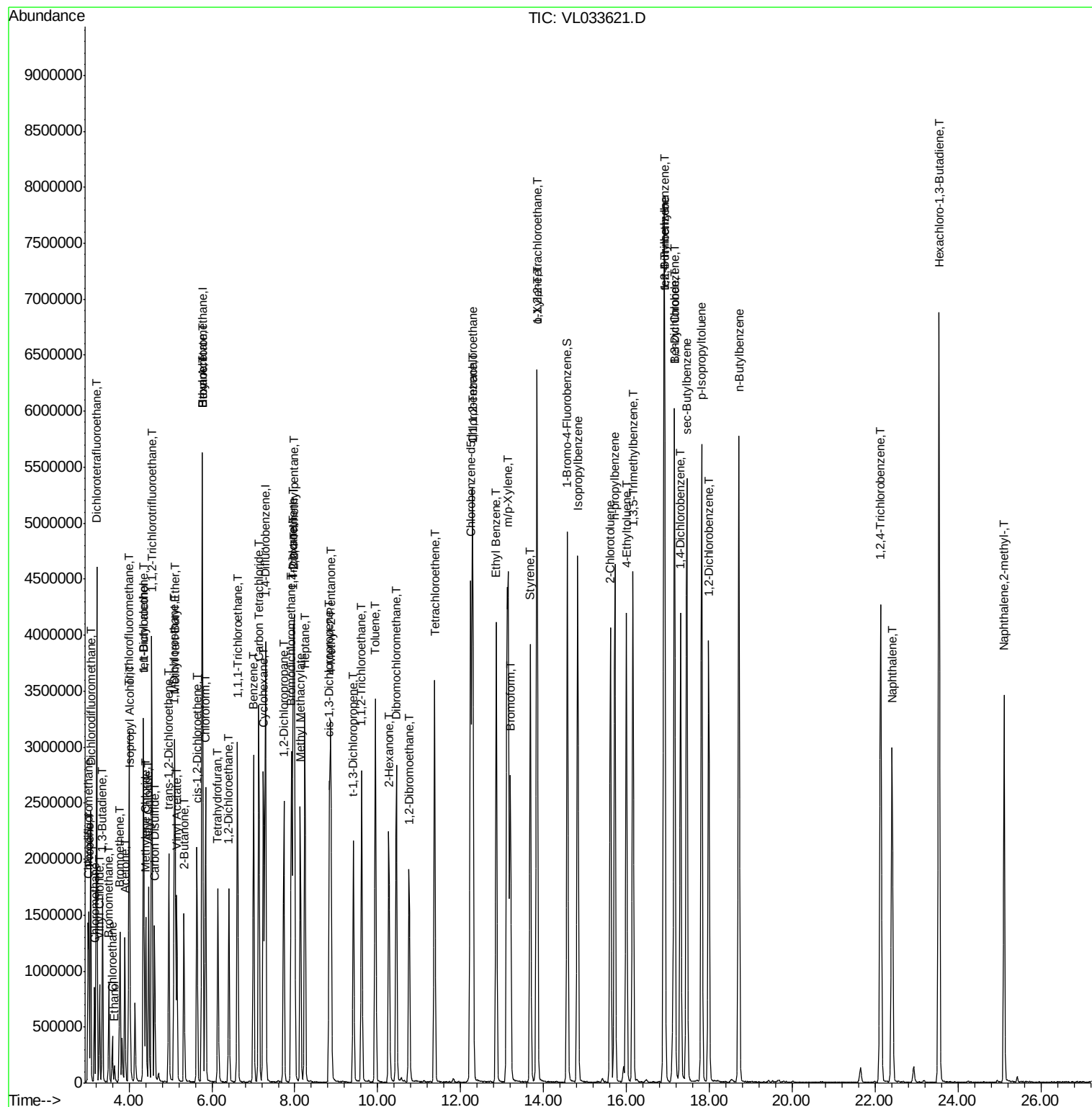
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3930018  | 9.299  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.41  | 75   | 1290454  | 10.580 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.83  | 75   | 1458423  | 10.601 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.61  | 97   | 982358   | 8.236  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.45 | 129  | 1774257  | 8.795  | ppbv   | 99       |
| 49) Bromoform                 | 13.20 | 173  | 1586457  | 10.265 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.86  | 43   | 2573616  | 9.400  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.26 | 43   | 2124259  | 8.837  | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.37 | 164  | 907368   | 9.731  | ppbv   | 96       |
| 53) Toluene                   | 9.94  | 91   | 2762618  | 9.027  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1559928  | 9.508  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1191804  | 7.665  | ppbv # | 56       |
| 57) Chlorobenzene             | 12.30 | 112  | 2109444  | 7.614  | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.86 | 91   | 3831590  | 9.218  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.15 | 91   | 3453985  | 9.659  | ppbv # | 100      |
| 60) o-Xylene                  | 13.85 | 91   | 3159127  | 8.746  | ppbv   | 100      |
| 61) Styrene                   | 13.68 | 104  | 2404852  | 9.741  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.82 | 105  | 4251272  | 8.807  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.83 | 83   | 2168669  | 7.691  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.72 | 120  | 1101755  | 8.799  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.91 | 119  | 3897323  | 8.633  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.15 | 91   | 2097787  | 10.247 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.45 | 105  | 5465182  | 8.620  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.81 | 119  | 4620128  | 8.759  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.71 | 91   | 4882228  | 8.505  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.61 | 91   | 3243551  | 8.984  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 3776987  | 9.180  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.15 | 105  | 3585136  | 8.861  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.92 | 105  | 3764126  | 8.341  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.16 | 146  | 2212659  | 7.876  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.30 | 146  | 2214141  | 8.266  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.98 | 146  | 2157825  | 8.257  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.54 | 225  | 1807390  | 9.045  | ppbv   | 99       |
| 79) Naphthalene               | 22.41 | 128  | 3957143  | 9.508  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.11 | 142  | 1919503  | 10.639 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.13 | 180  | 2124690  | 8.804  | ppbv   | 99       |

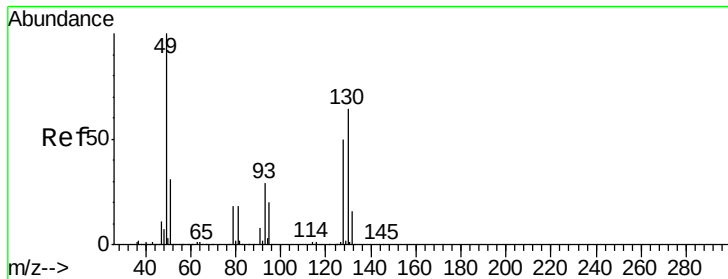
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:29:02 2019  
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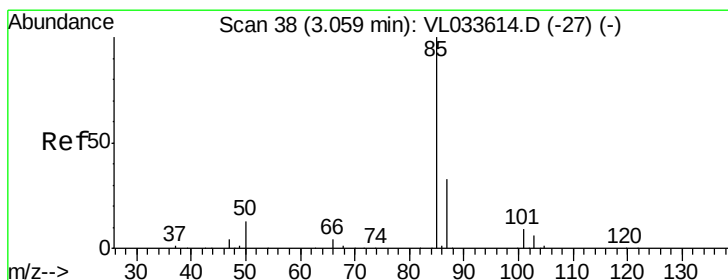
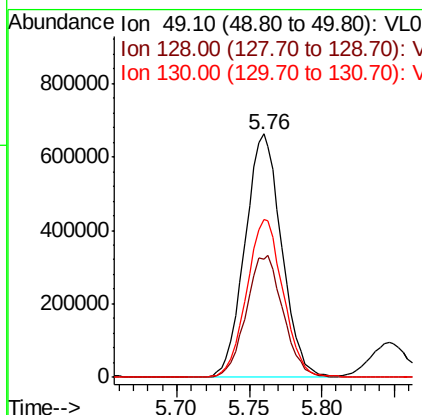
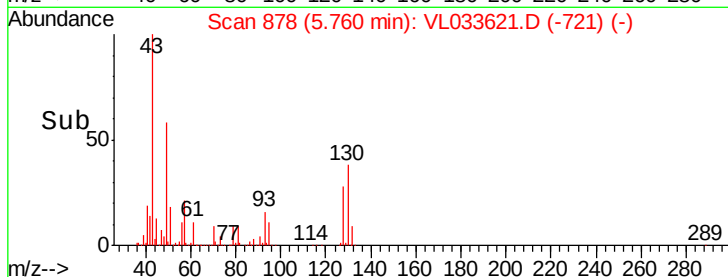
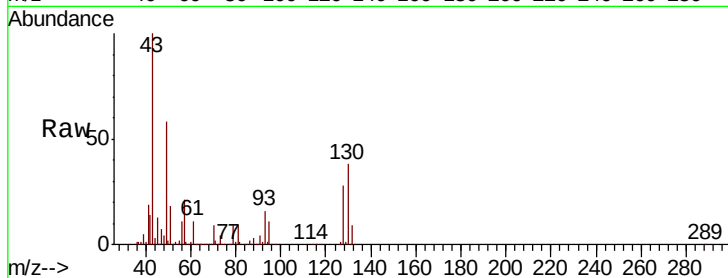




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.76 min Scan# 878  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

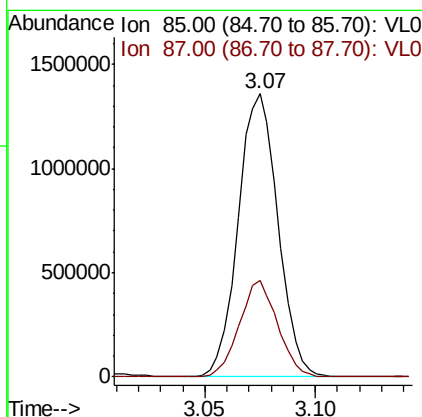
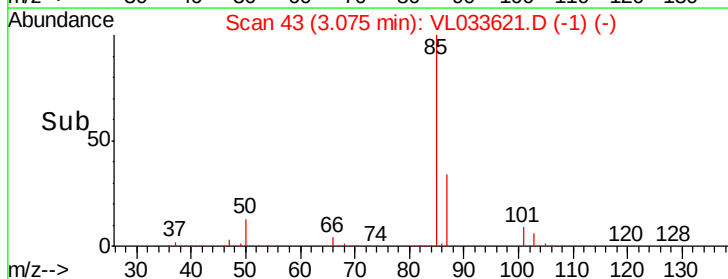
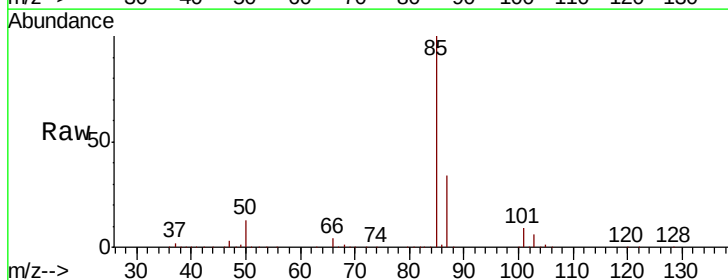
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
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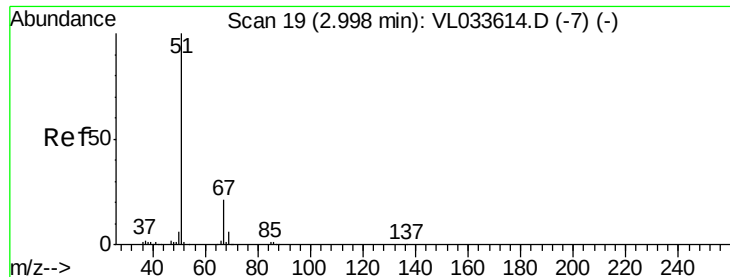
Tgt Ion: 49 Resp: 1167323  
 Ion Ratio Lower Upper  
 49 100  
 128 50.4 25.0 75.0  
 130 64.5 31.9 95.9



#2  
 Dichlorodifluoromethane  
 Concen: 9.643 ppbv  
 RT: 3.07 min Scan# 43  
 Delta R.T. 0.02 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion: 85 Resp: 1696371  
 Ion Ratio Lower Upper  
 85 100  
 87 33.9 26.8 40.2

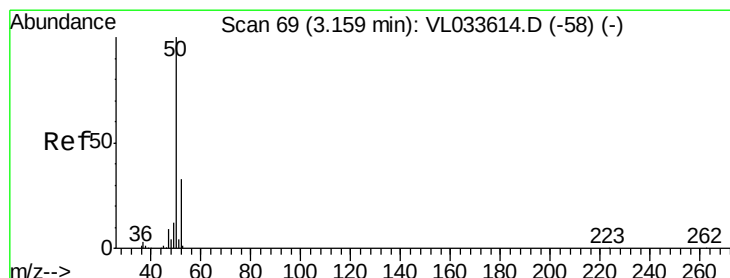
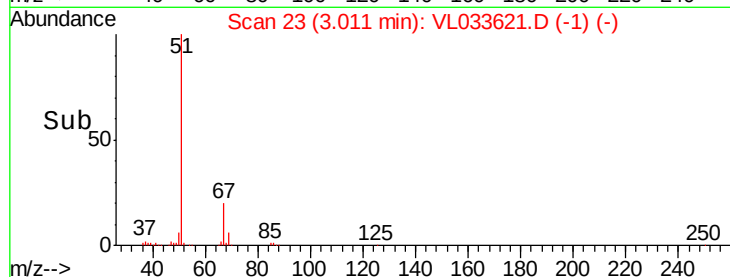
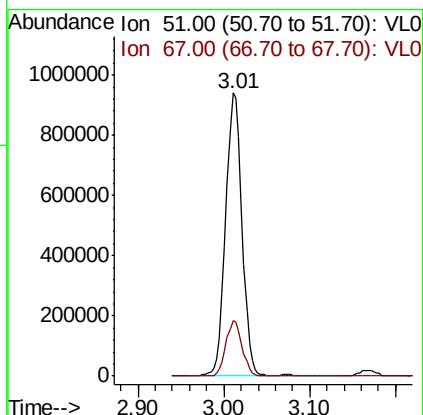
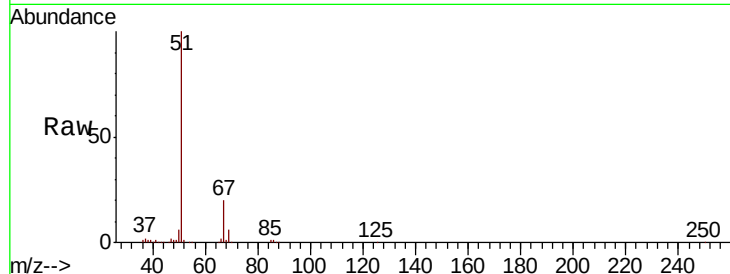




#3  
Chlorodifluoromethane  
Concen: 8.967 ppbv  
RT: 3.01 min Scan# 23  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

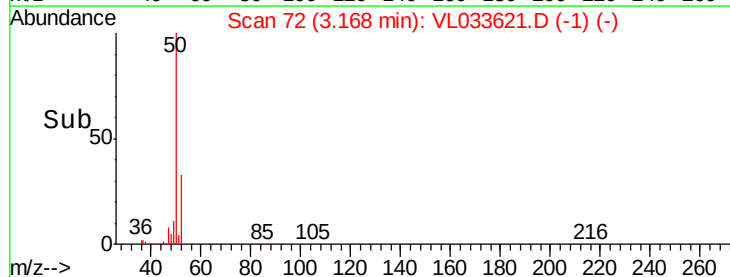
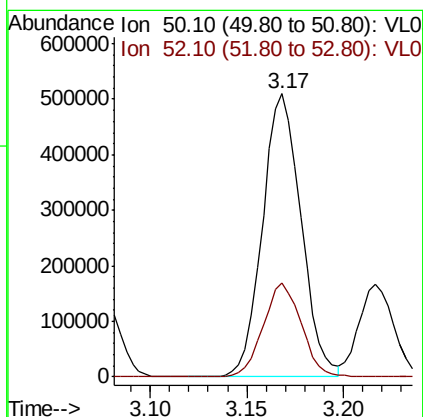
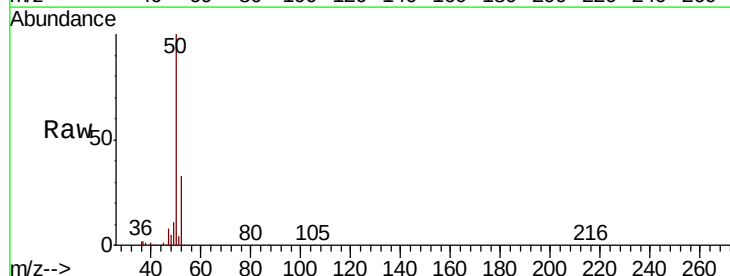
Instrument :  
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ICVVL050119

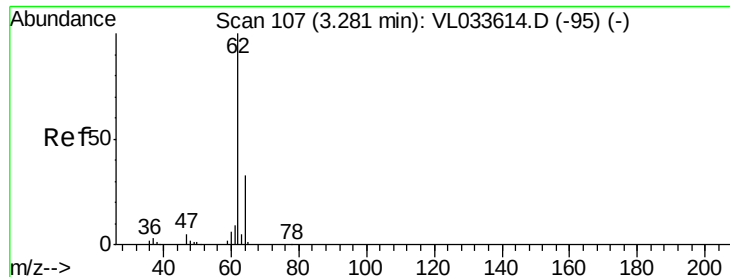
Tgt Ion: 51 Resp: 1251544  
Ion Ratio Lower Upper  
51 100  
67 19.2 15.6 23.4



#4  
Chloromethane  
Concen: 9.275 ppbv  
RT: 3.17 min Scan# 72  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 50 Resp: 705083  
Ion Ratio Lower Upper  
50 100  
52 33.1 26.0 39.0





#5

Vinyl Chloride

Concen: 8.701 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

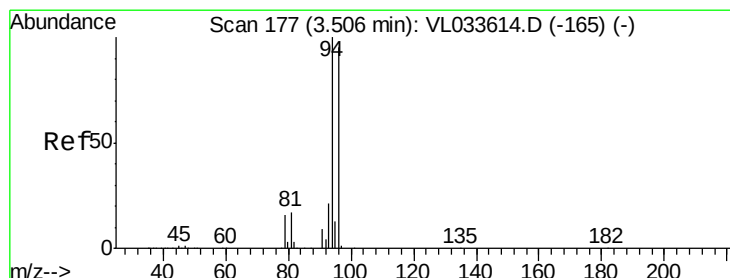
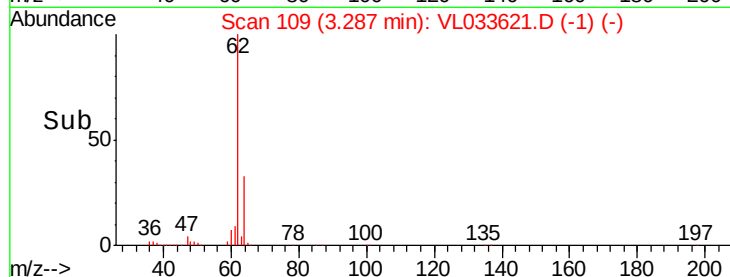
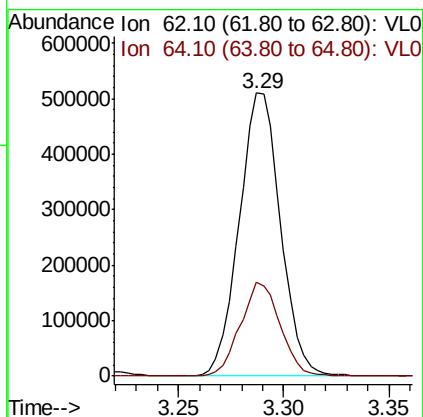
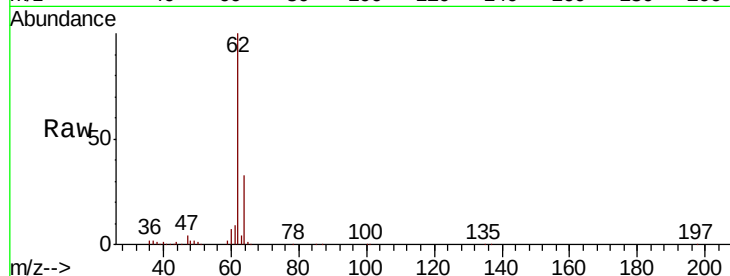
ICVVL050119

Tgt Ion: 62 Resp: 693995

Ion Ratio Lower Upper

62 100

64 33.0 26.2 39.4



#6

Bromomethane

Concen: 9.516 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL033621.D

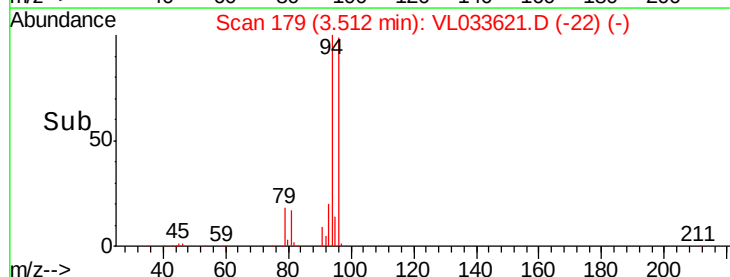
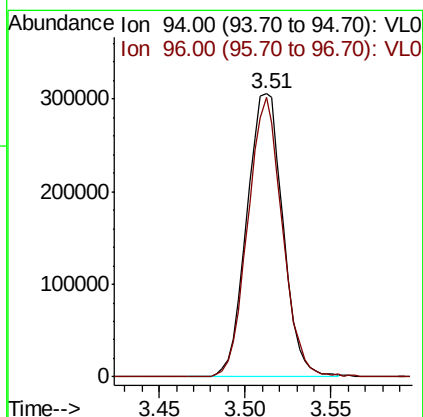
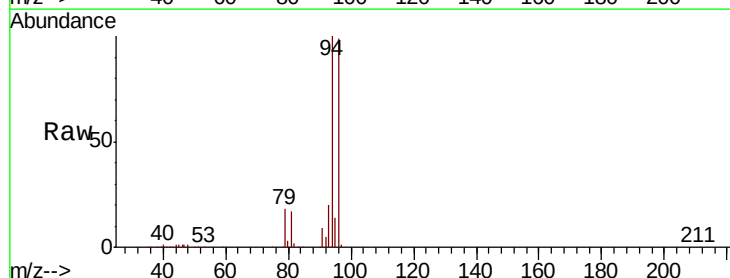
Acq: 1 May 2019 17:26

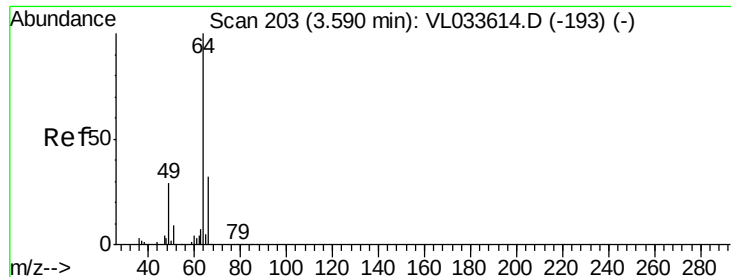
Tgt Ion: 94 Resp: 446658

Ion Ratio Lower Upper

94 100

96 98.7 75.7 113.5





#7

Chloroethane

Concen: 9.857 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

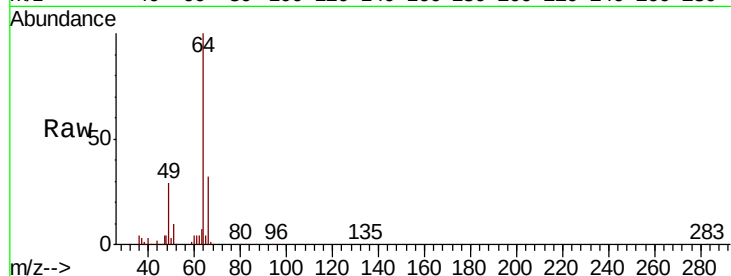
ICVVL050119

Tgt Ion: 64 Resp: 262084

Ion Ratio Lower Upper

64 100

66 31.8 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

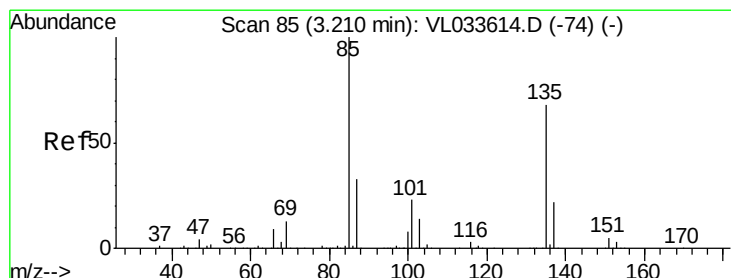
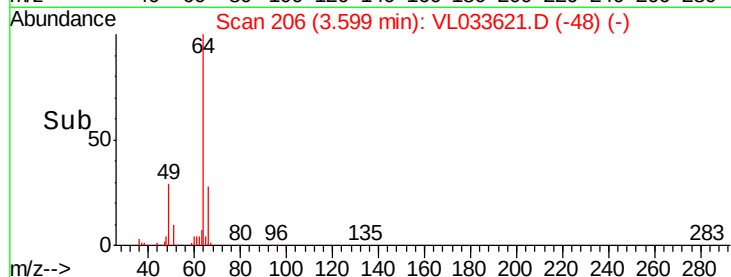
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.215 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033621.D

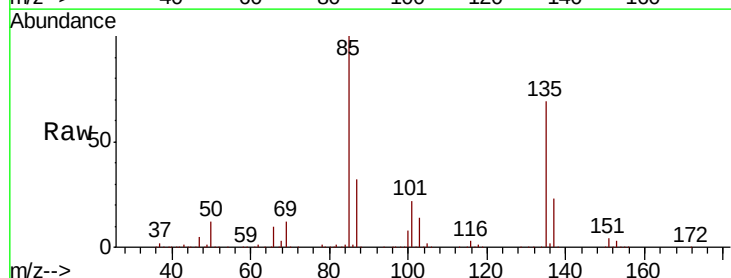
Acq: 1 May 2019 17:26

Tgt Ion: 85 Resp: 1763605

Ion Ratio Lower Upper

85 100

135 68.8 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

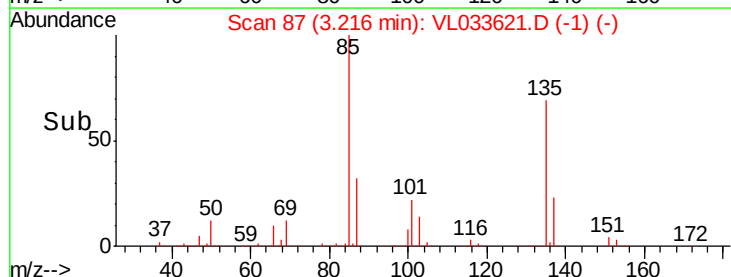
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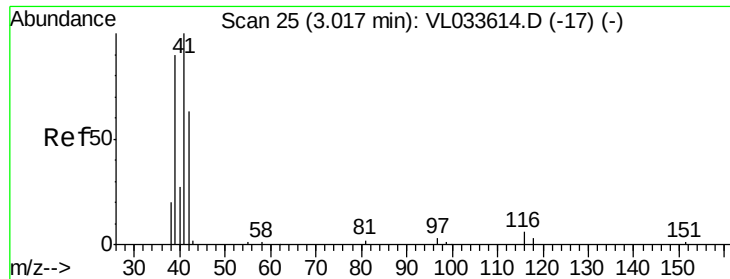
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500000

0

Time-->





#9

Propene

Concen: 13.936 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.02 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

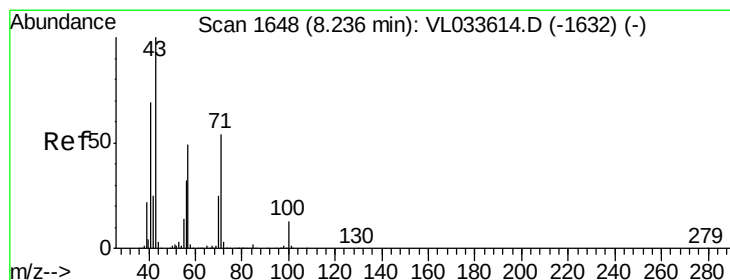
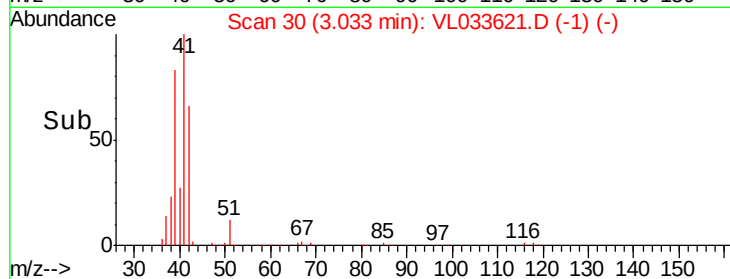
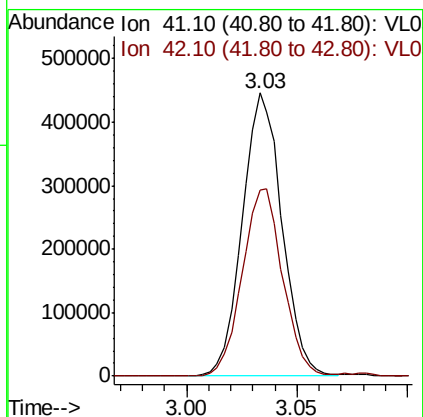
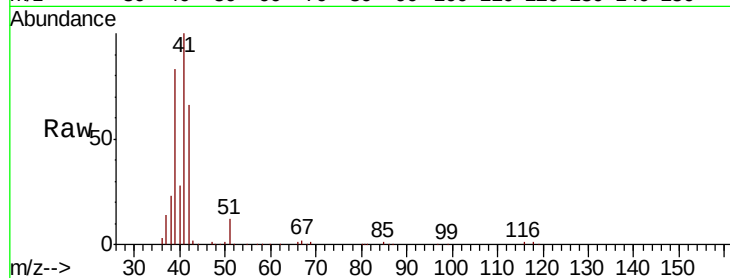
ICVVL050119

Tgt Ion: 41 Resp: 556928

Ion Ratio Lower Upper

41 100

42 68.2 66.0 99.0



#10

Heptane

Concen: 9.974 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.01 min

Lab File: VL033621.D

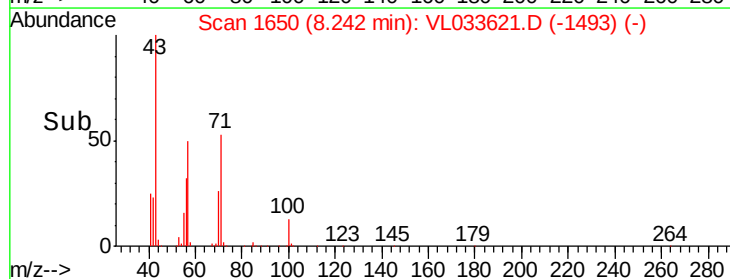
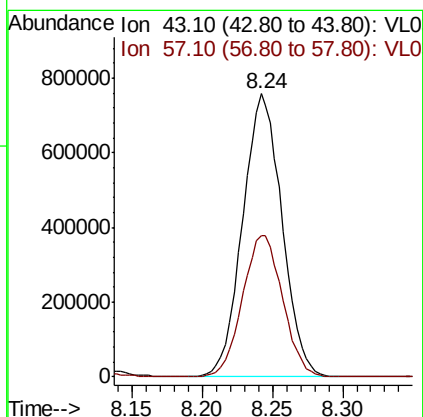
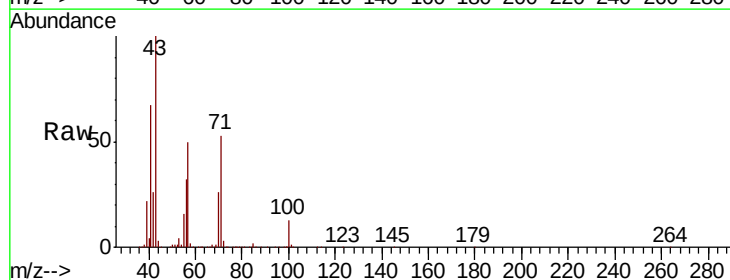
Acq: 1 May 2019 17:26

Tgt Ion: 43 Resp: 1473875

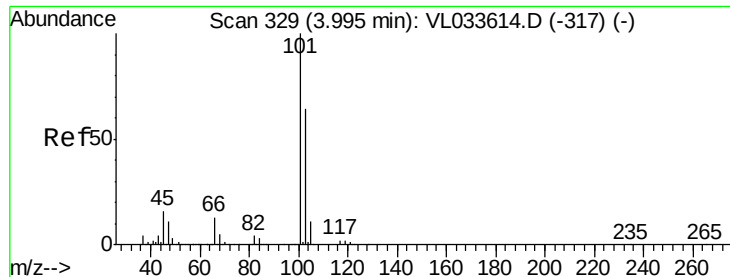
Ion Ratio Lower Upper

43 100

57 51.2 40.3 60.5



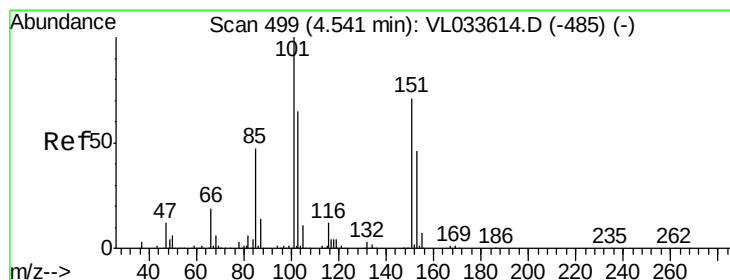
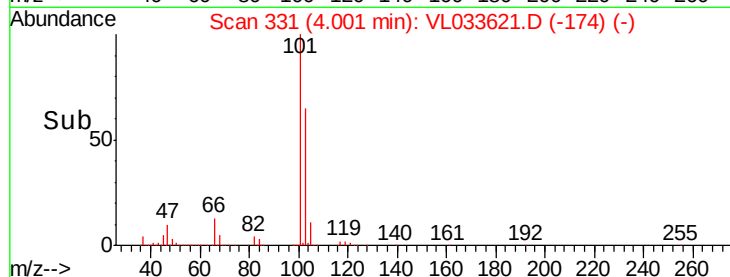
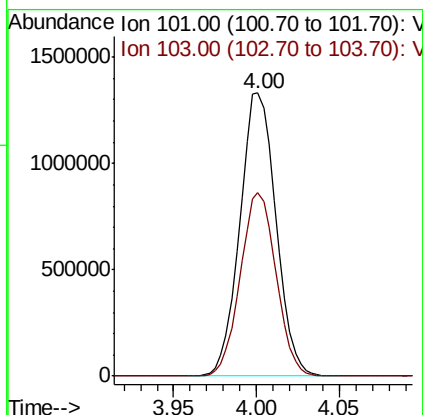
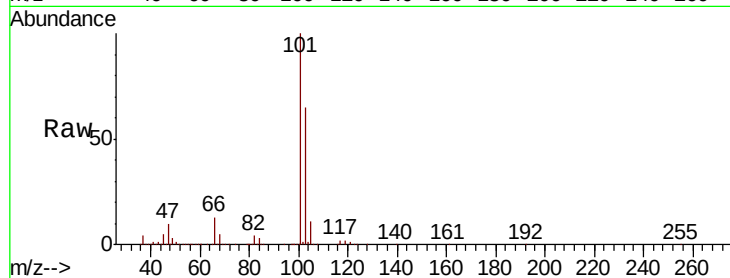




#11  
 Trichlorofluoromethane  
 Concen: 9.648 ppbv  
 RT: 4.00 min Scan# 331  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

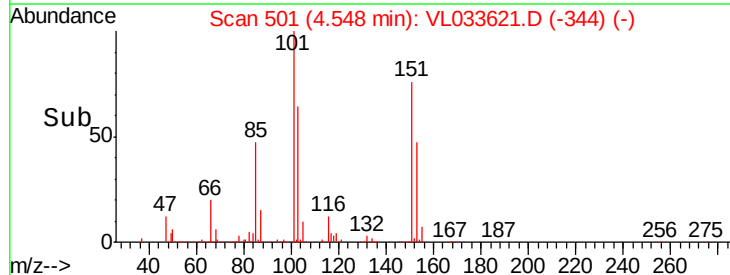
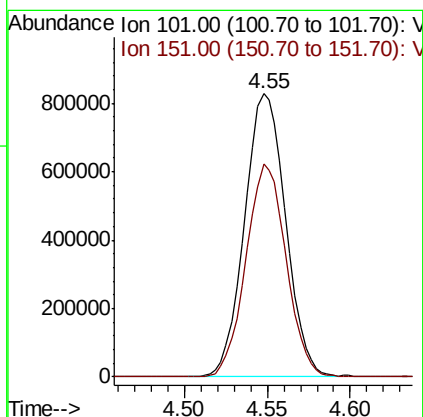
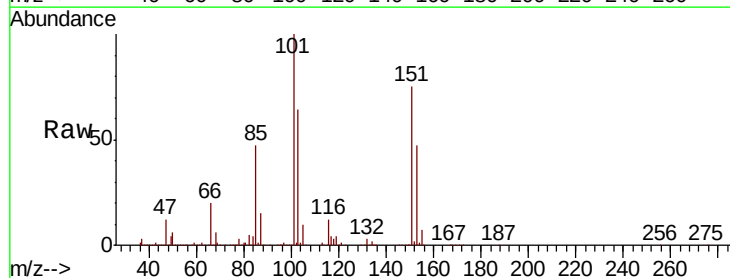
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

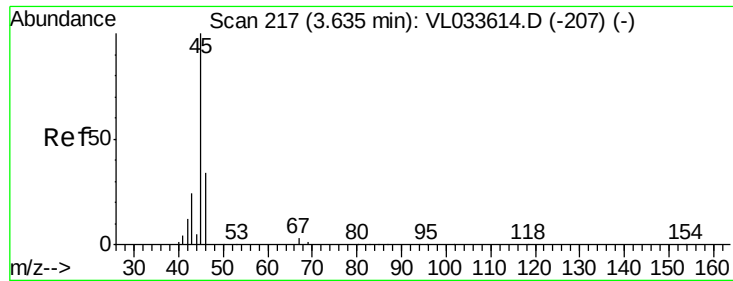
Tgt Ion:101 Resp: 2017359  
 Ion Ratio Lower Upper  
 101 100  
 103 64.8 51.2 76.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.996 ppbv  
 RT: 4.55 min Scan# 501  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion:101 Resp: 1433529  
 Ion Ratio Lower Upper  
 101 100  
 151 73.7 59.2 88.8





#13

Ethanol

Concen: 7.281 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

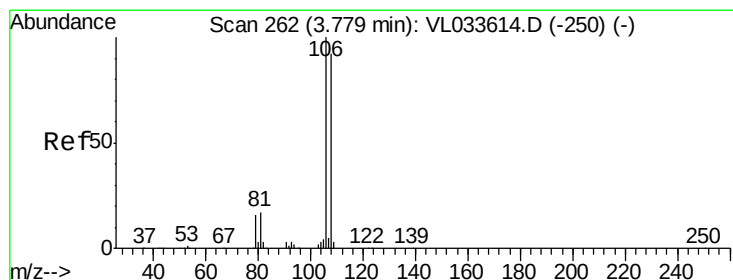
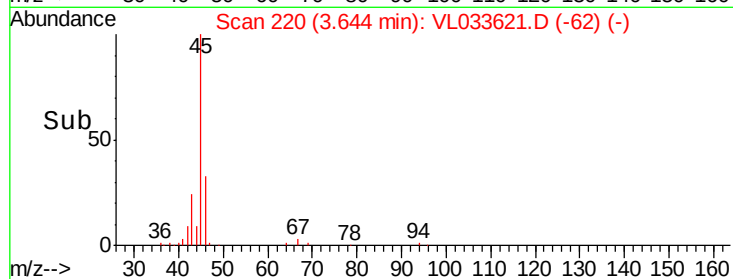
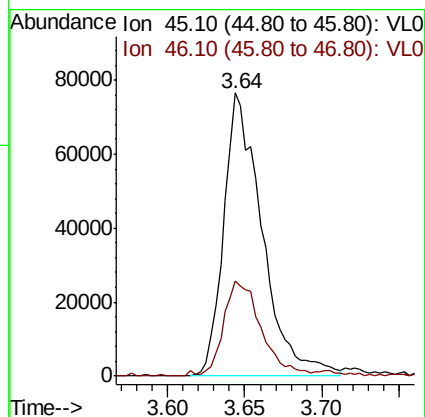
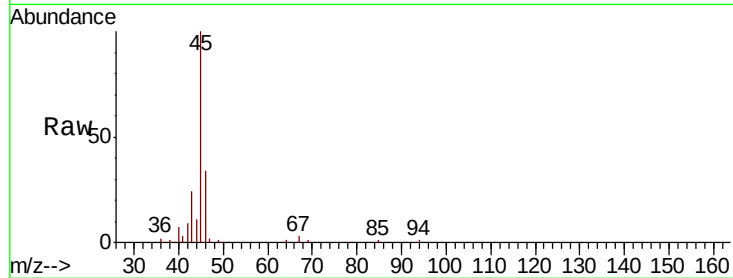
ICVVL050119

Tgt Ion: 45 Resp: 131922

Ion Ratio Lower Upper

45 100

46 35.1 14.6 58.2



#14

Bromoethene

Concen: 9.809 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

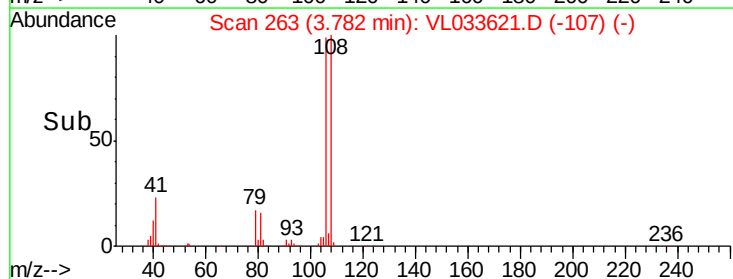
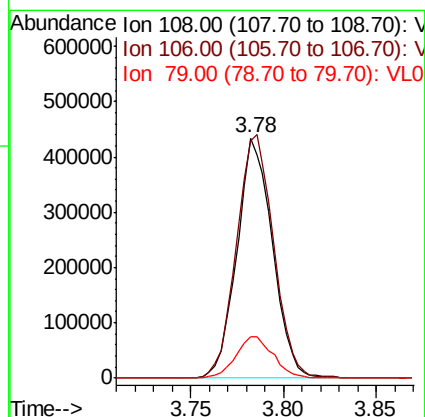
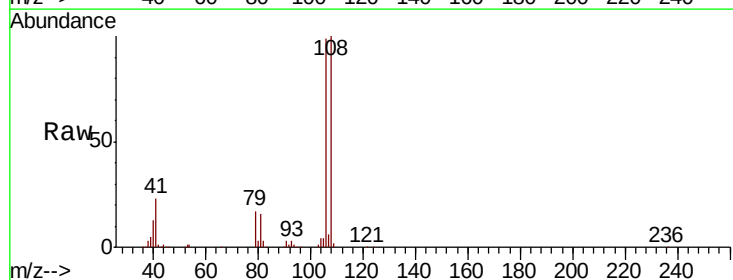
Tgt Ion: 108 Resp: 577376

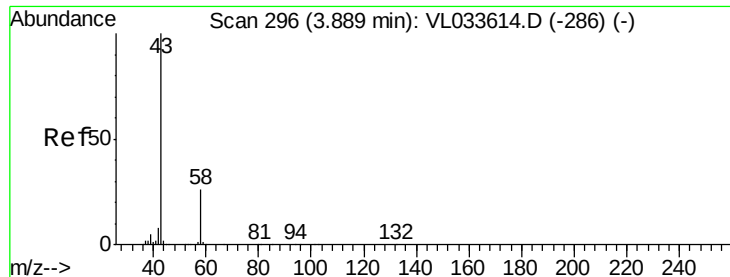
Ion Ratio Lower Upper

108 100

106 106.8 84.6 127.0

79 18.4 14.4 21.6





#15

Acetone

Concen: 8.748 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

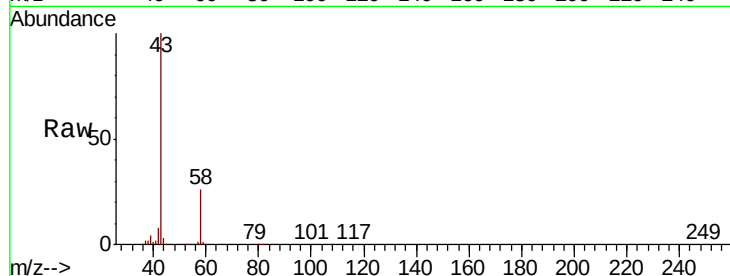
ICVVL050119

Tgt Ion: 43 Resp: 1243161

Ion Ratio Lower Upper

43 100

58 26.9 21.2 31.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

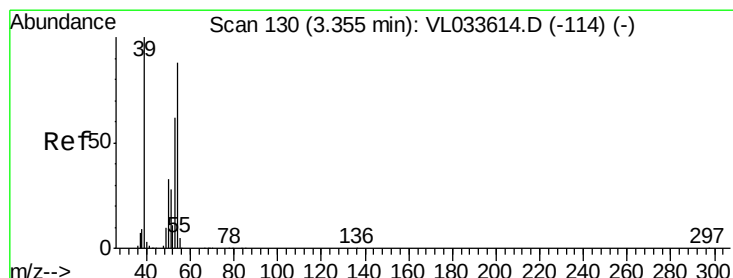
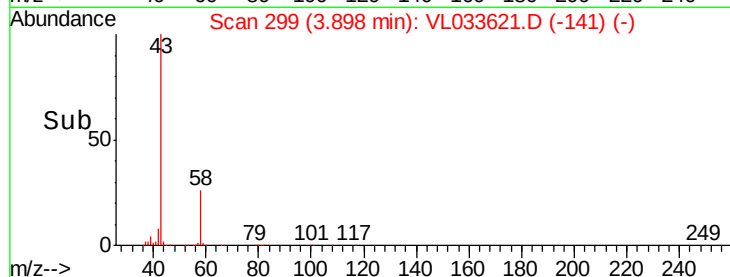
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.745 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL033621.D

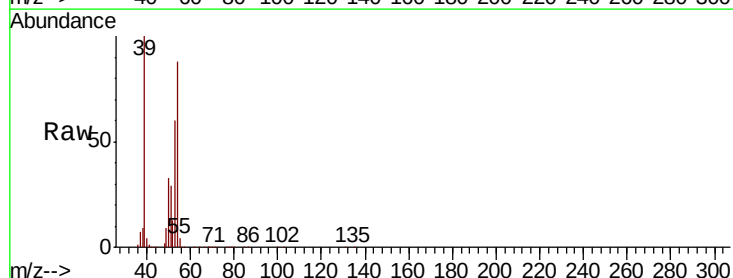
Acq: 1 May 2019 17:26

Tgt Ion: 39 Resp: 623297

Ion Ratio Lower Upper

39 100

54 85.5 68.4 102.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

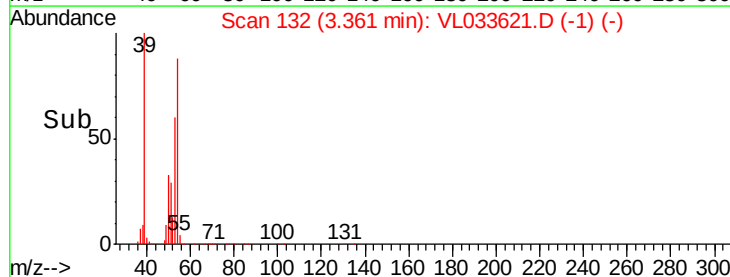
300000

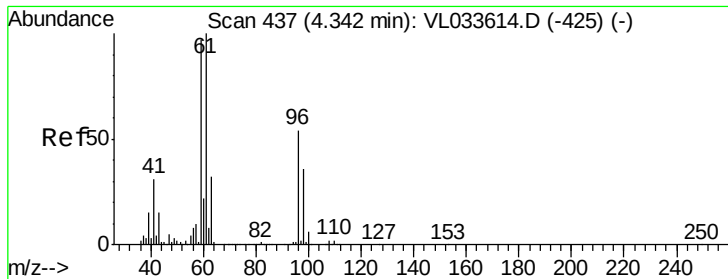
200000

100000

0

Time-->



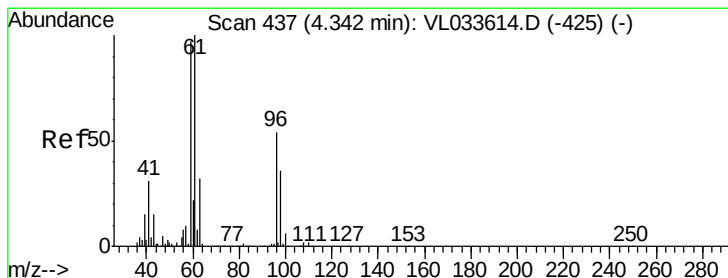
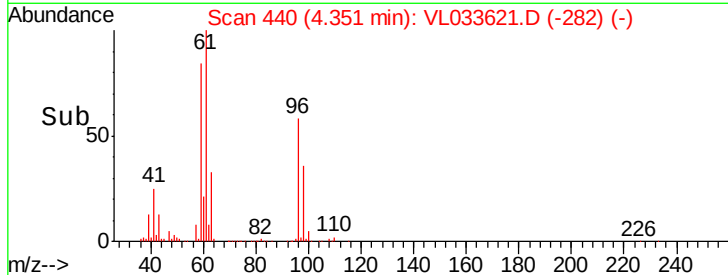
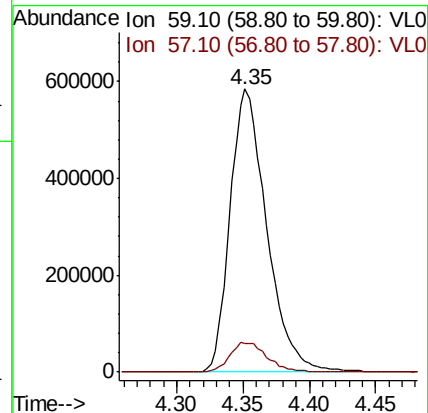
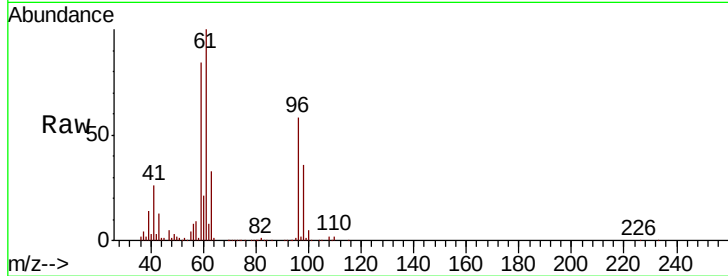


#17

tert-Butyl alcohol  
Concen: 9.129 ppbv  
RT: 4.35 min Scan# 440  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

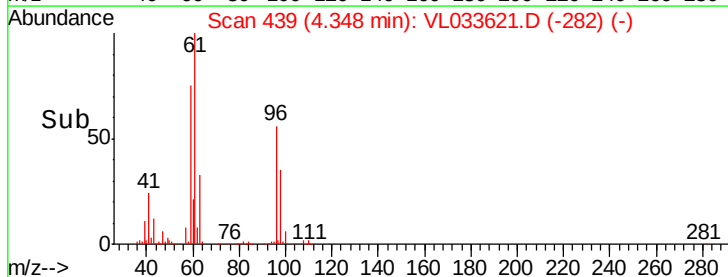
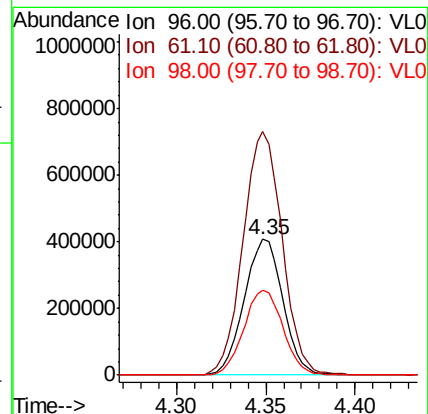
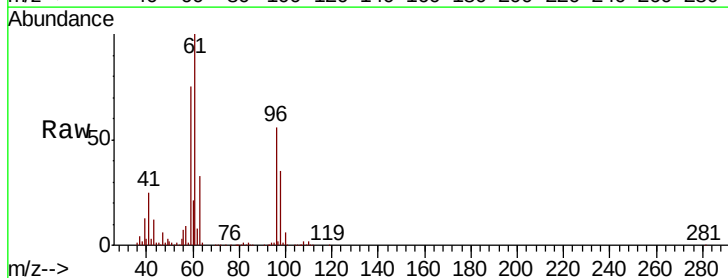
Tgt Ion: 59 Resp: 1120230  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.4 12.6

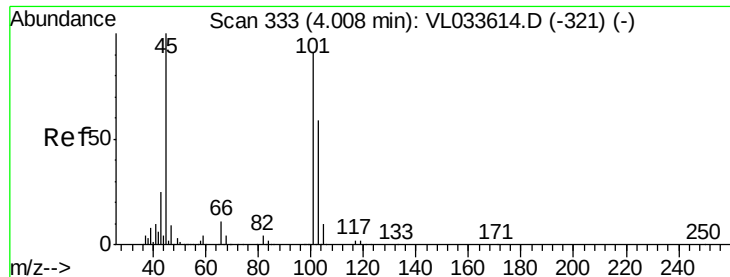


#18

1,1-Dichloroethene  
Concen: 9.895 ppbv  
RT: 4.35 min Scan# 439  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 96 Resp: 616644  
Ion Ratio Lower Upper  
96 100  
61 179.2 147.3 220.9  
98 62.7 53.6 80.4





#19

Isopropyl Alcohol

Concen: 8.911 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

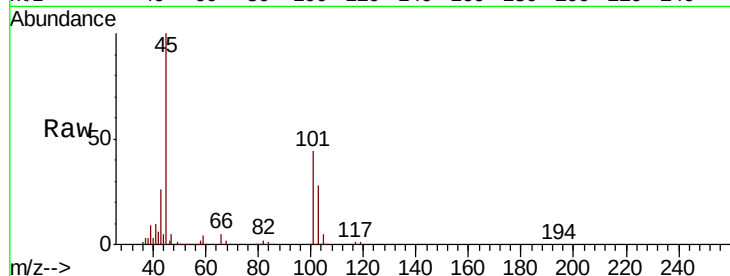
ICVVL050119

Tgt Ion: 45 Resp: 869202

Ion Ratio Lower Upper

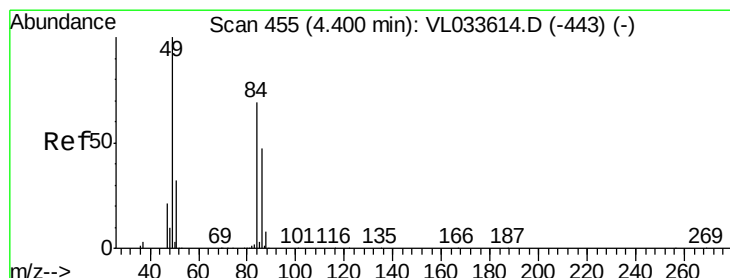
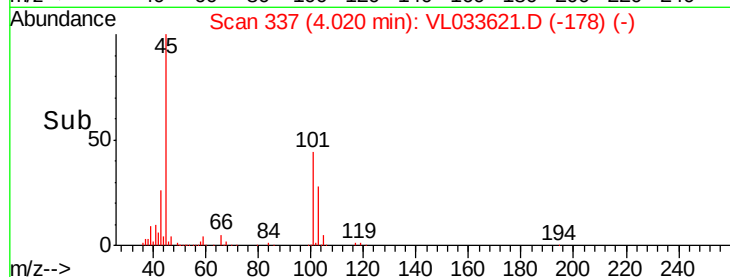
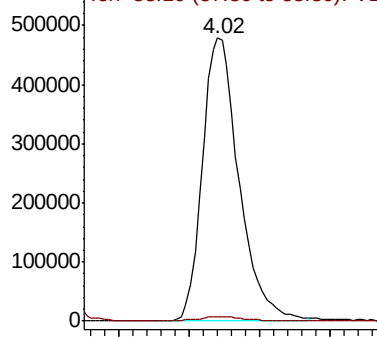
45 100

58 2.2 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.183 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Tgt Ion: 84 Resp: 508589

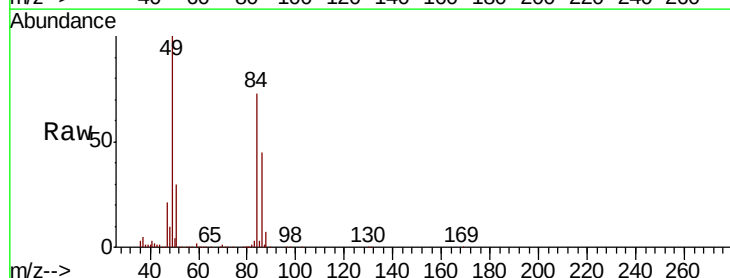
Ion Ratio Lower Upper

84 100

49 136.2 116.2 174.2

51 40.6 37.0 55.6

86 61.7 54.0 81.0

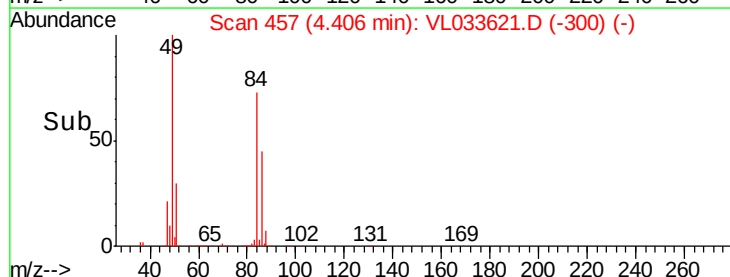
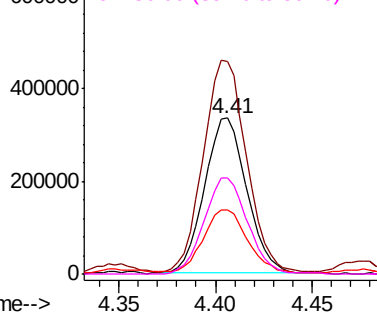


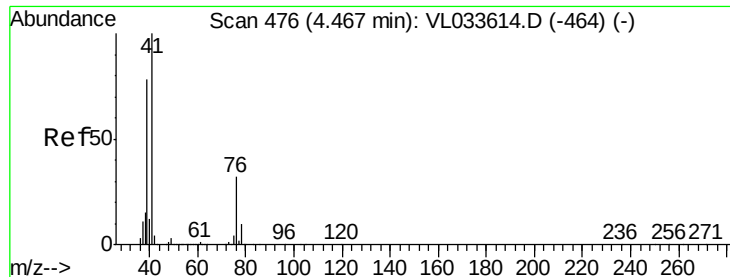
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 10.059 ppbv

RT: 4.47 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

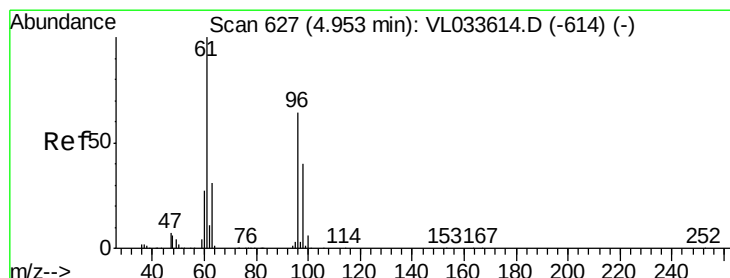
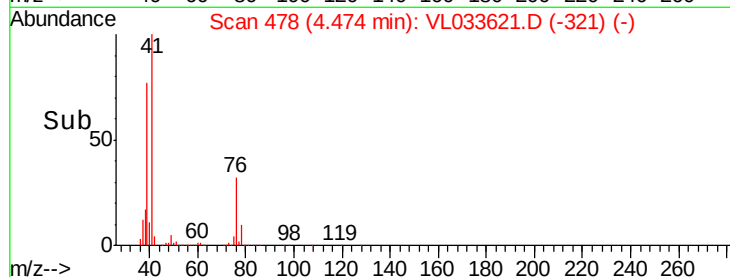
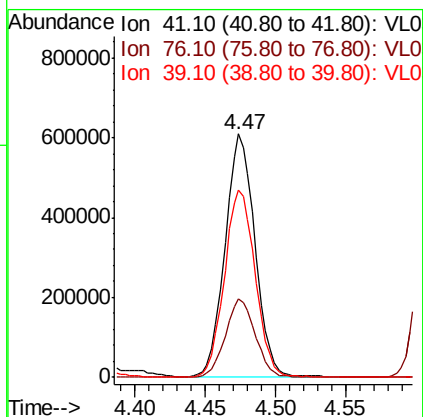
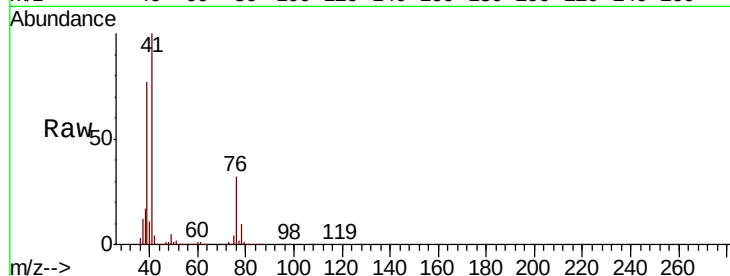
Tgt Ion: 41 Resp: 899224

Ion Ratio Lower Upper

41 100

76 32.3 25.0 37.6

39 79.3 64.6 96.8



#22

trans-1,2-Dichloroethene

Concen: 10.725 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

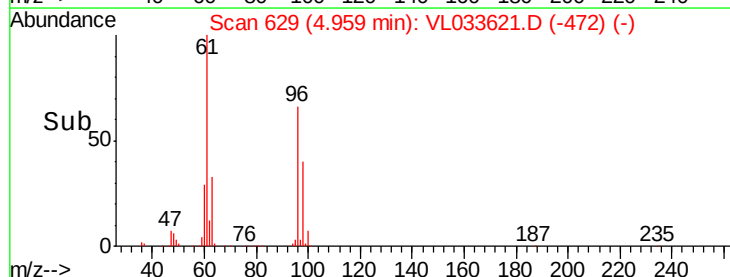
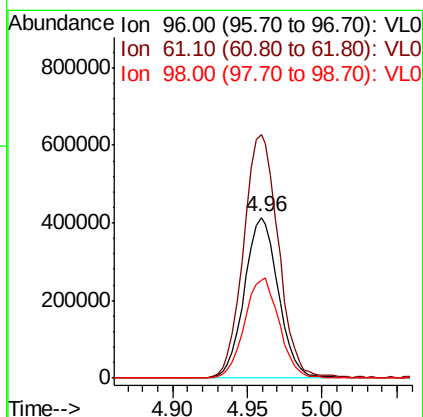
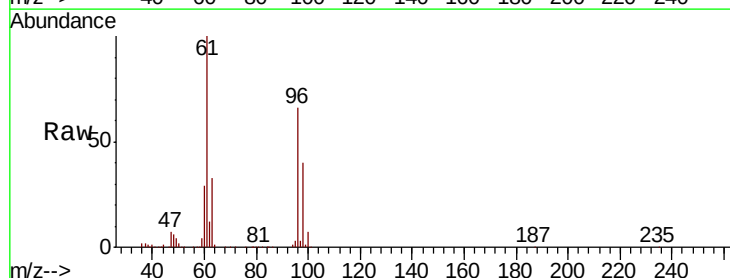
Tgt Ion: 96 Resp: 654626

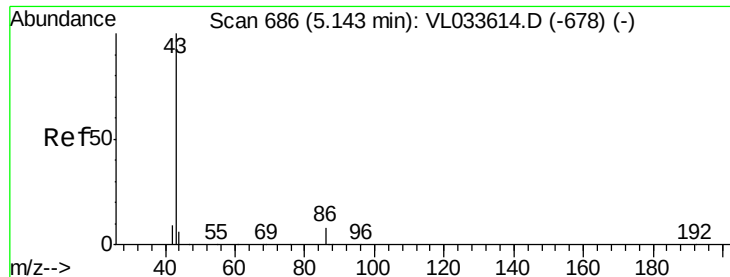
Ion Ratio Lower Upper

96 100

61 151.2 124.9 187.3

98 61.0 50.5 75.7





#23

Vinyl Acetate

Concen: 10.253 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

Tgt Ion: 43 Resp: 2166795

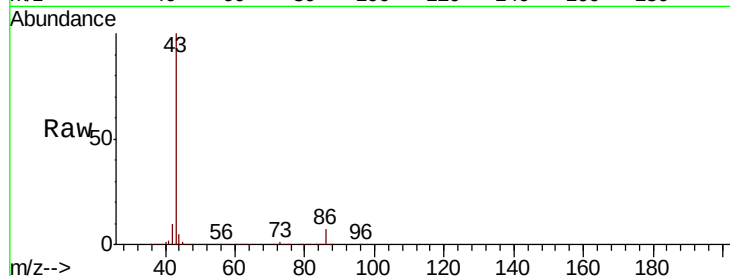
Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

42 9.9 7.8 11.8

44 5.2 4.6 7.0

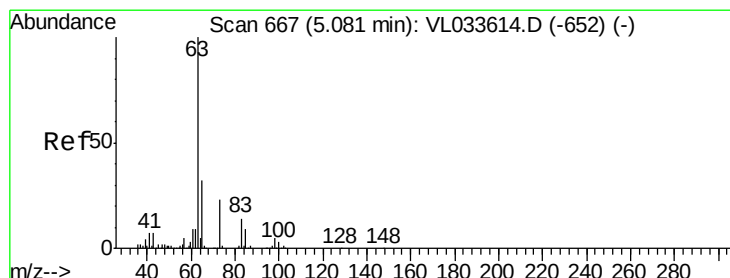
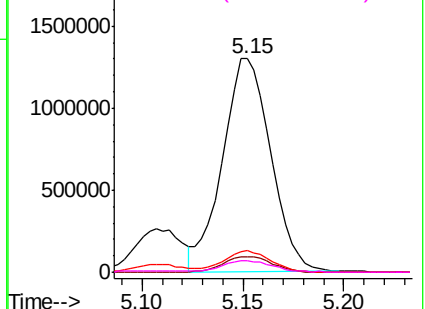
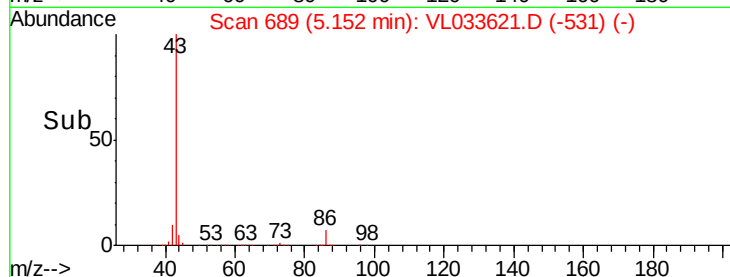


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.530 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

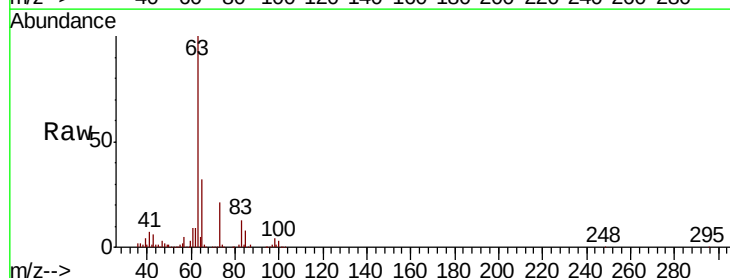
Tgt Ion: 63 Resp: 1499299

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.2

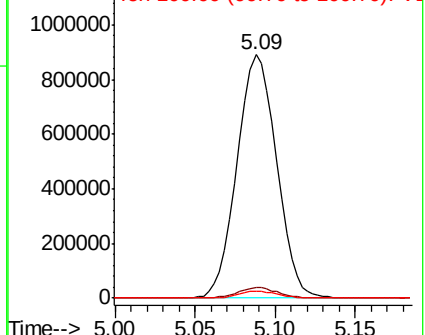
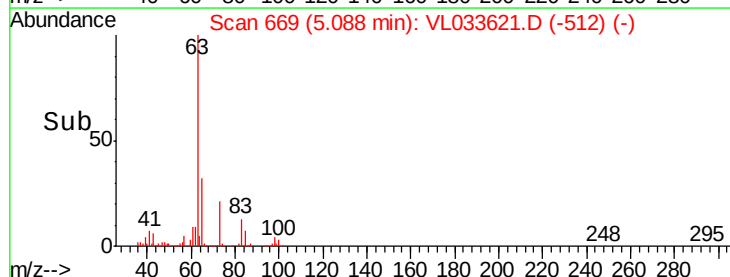
100 2.7 1.4 4.0

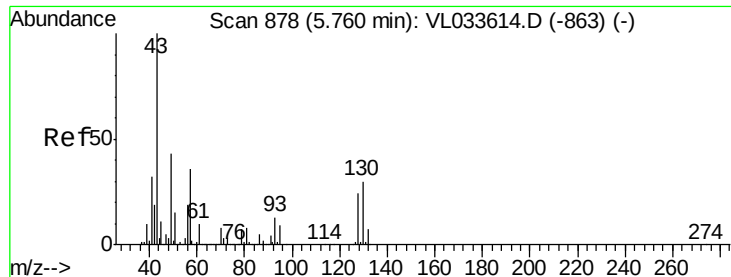


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



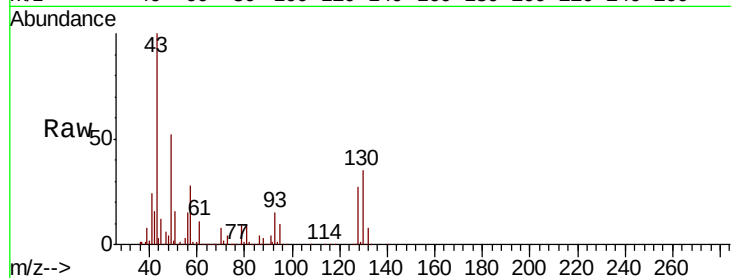


#25  
Ethyl Acetate  
Concen: 9.264 ppbv  
RT: 5.76 min Scan# 879  
Delta R.T. 0.00 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

Tgt Ion: 43 Resp: 2498695

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.2  | 8.1   | 12.1  |
| 61  | 9.5   | 7.5   | 11.3  |
| 70  | 7.3   | 5.8   | 8.6   |



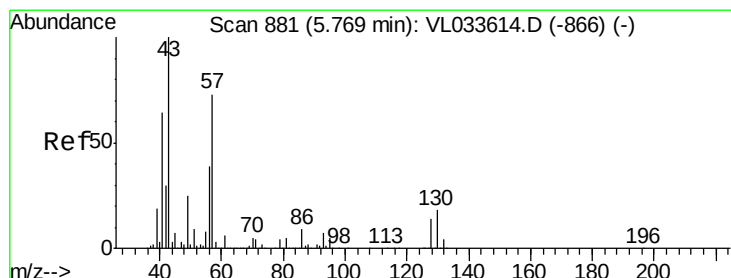
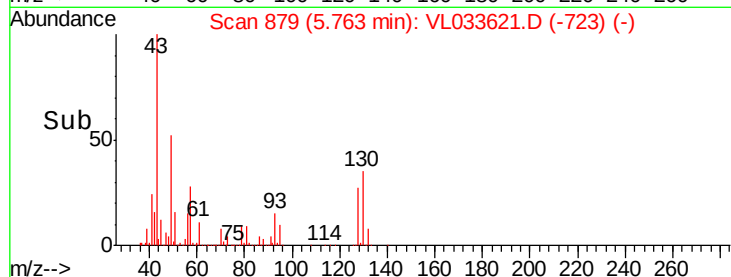
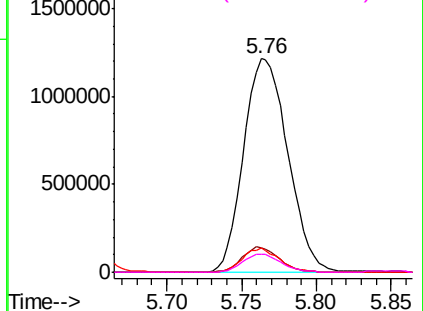
Abundance

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: 9.695 ppbv  
RT: 5.78 min Scan# 883  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 57 Resp: 1101130

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 87.0  | 70.6  | 106.0 |
| 43  | 228.1 | 186.0 | 279.0 |
| 56  | 52.3  | 42.7  | 64.1  |

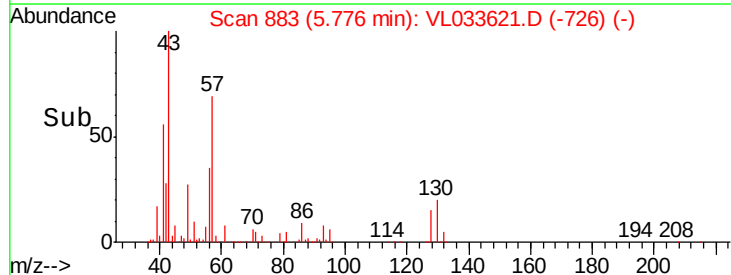
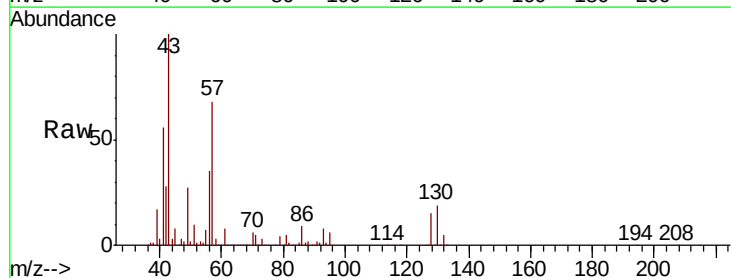
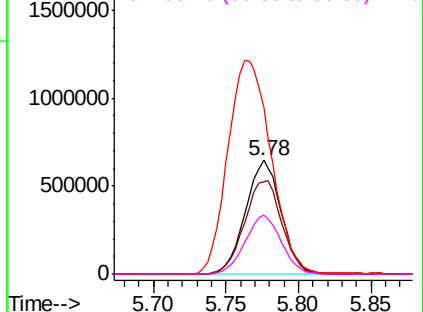
Abundance

Ion 57.10 (56.80 to 57.80): VL0

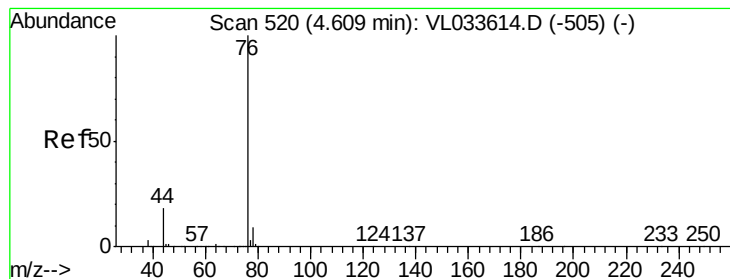
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0







#27

Carbon Disulfide

Concen: 11.512 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

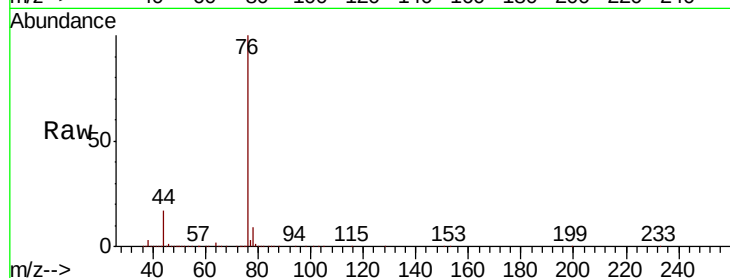
Tgt Ion: 76 Resp: 1583431

Ion Ratio Lower Upper

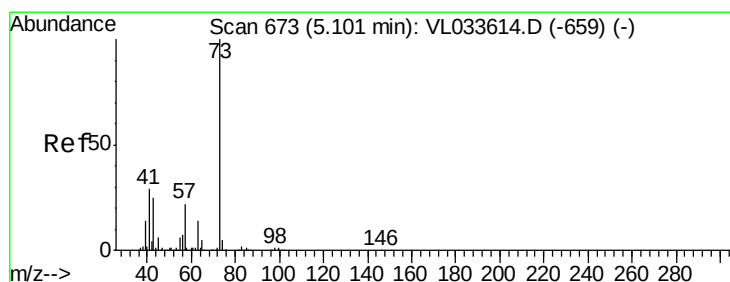
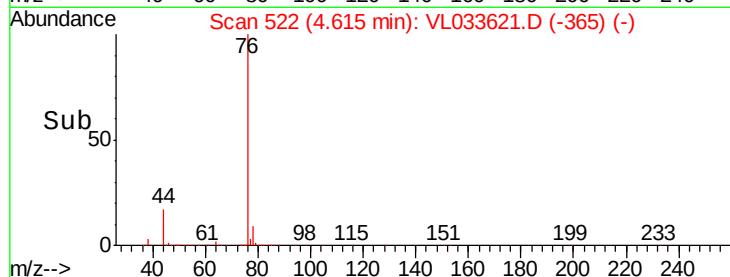
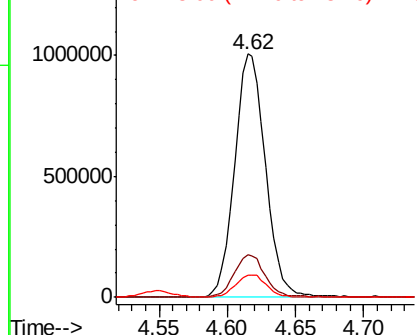
76 100

44 16.9 14.3 21.5

78 9.3 7.5 11.3



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



#28

Methyl tert-Butyl Ether

Concen: 10.192 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL033621.D

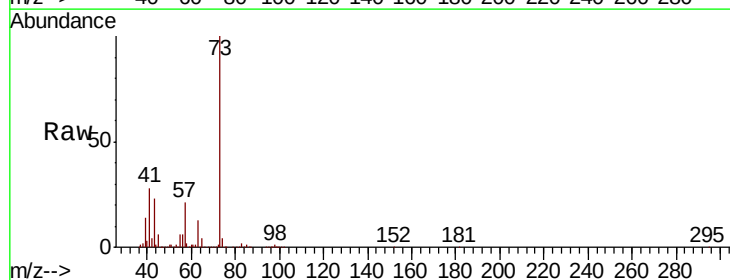
Acq: 1 May 2019 17:26

Tgt Ion: 73 Resp: 1951993

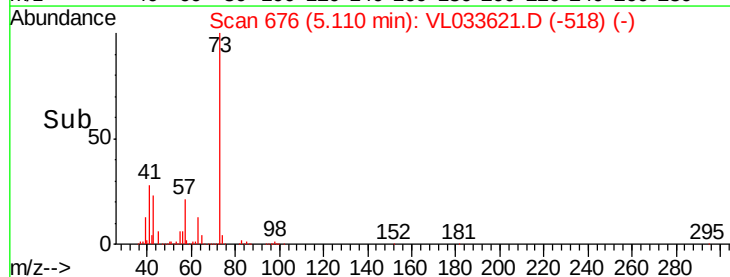
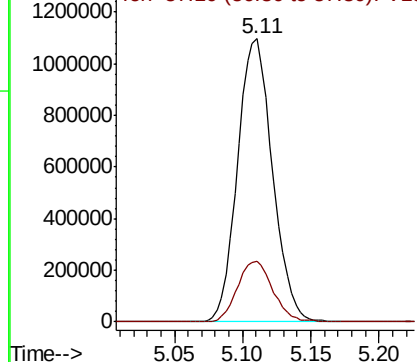
Ion Ratio Lower Upper

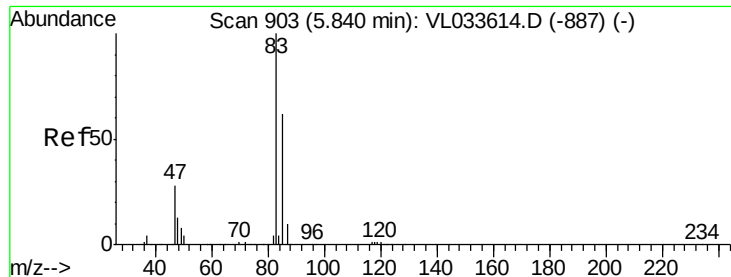
73 100

57 21.9 17.8 26.8



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

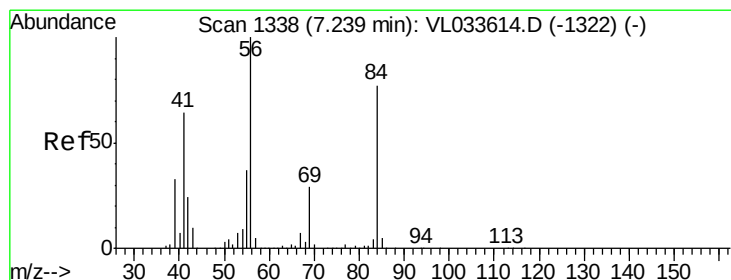
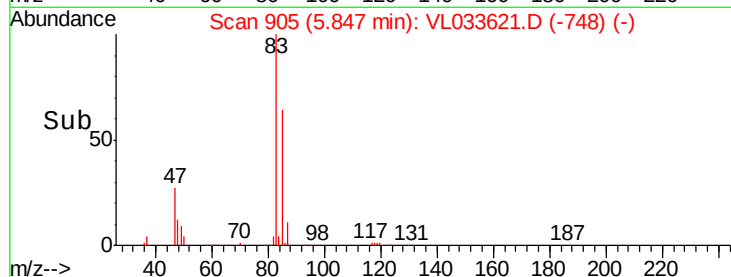
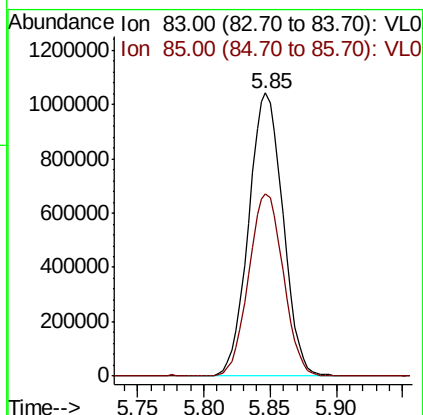
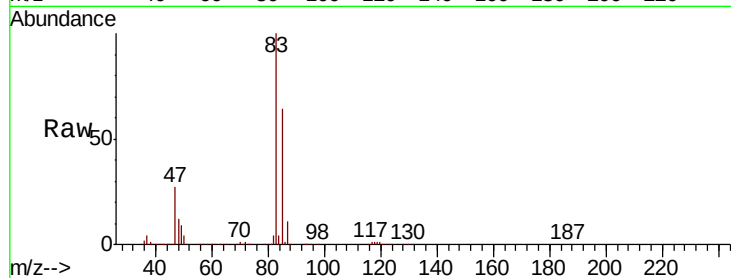




#29  
Chloroform  
Concen: 9.032 ppbv  
RT: 5.85 min Scan# 905  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

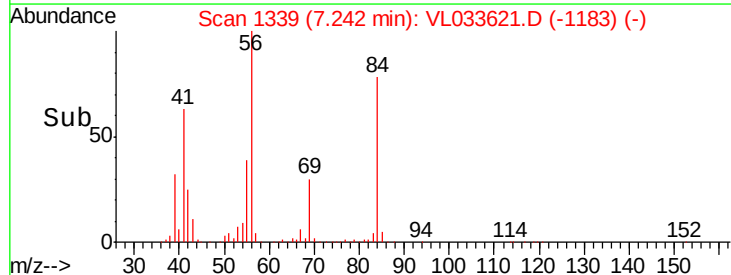
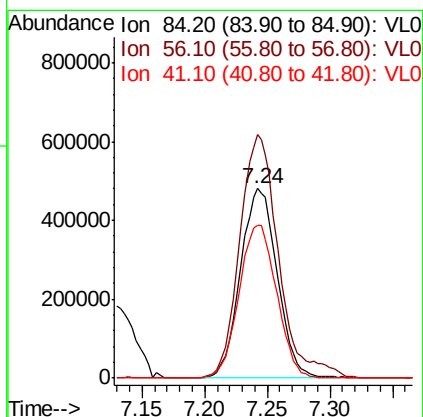
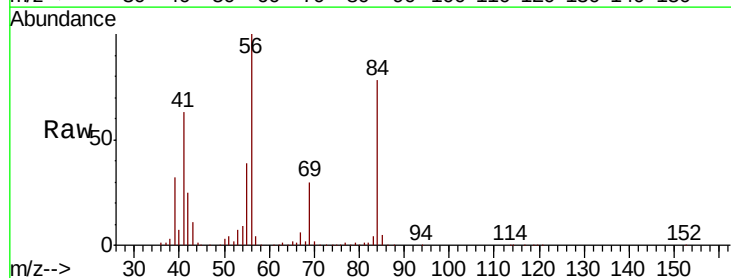
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

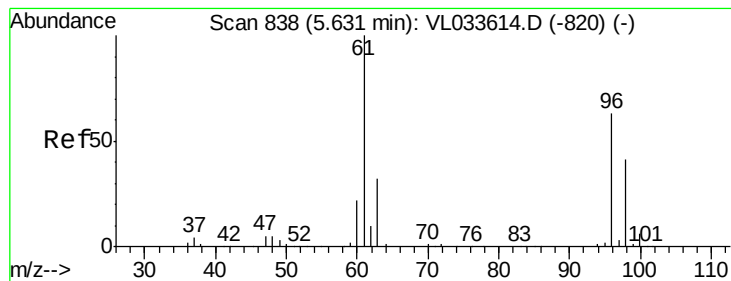
Tgt Ion: 83 Resp: 1880084  
Ion Ratio Lower Upper  
83 100  
85 64.3 49.9 74.9



#30  
Cyclohexane  
Concen: 10.222 ppbv  
RT: 7.24 min Scan# 1339  
Delta R.T. 0.00 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 84 Resp: 982828  
Ion Ratio Lower Upper  
84 100  
56 135.7 108.4 162.6  
41 82.3 67.0 100.4





#31

cis-1,2-Dichloroethene

Concen: 10.076 ppbv

RT: 5.64 min Scan# 840

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

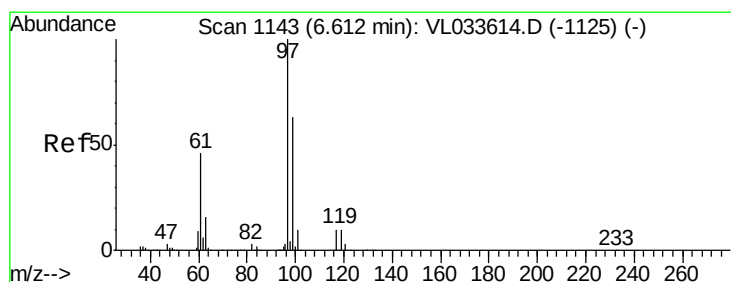
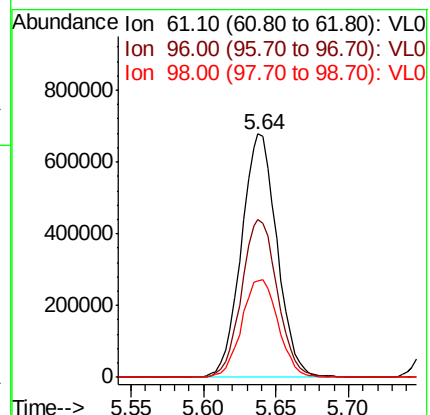
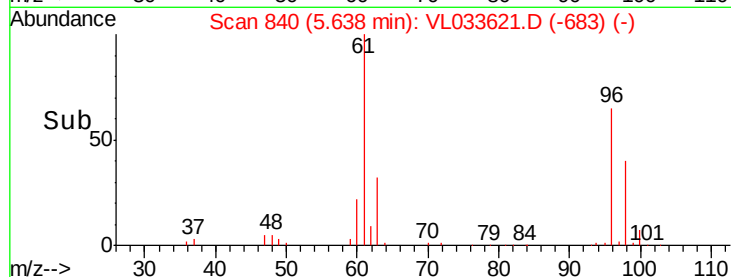
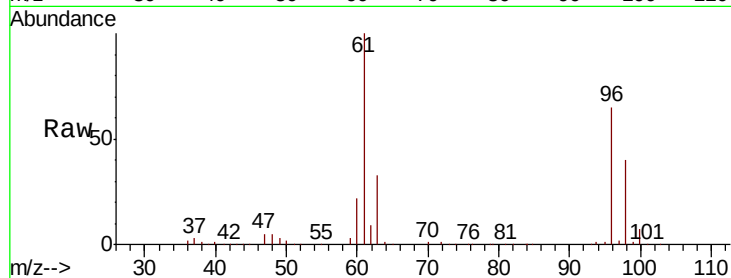
Tgt Ion: 61 Resp: 1155001

Ion Ratio Lower Upper

61 100

96 64.6 50.6 76.0

98 39.8 32.8 49.2



#32

1,1,1-Trichloroethane

Concen: 9.040 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

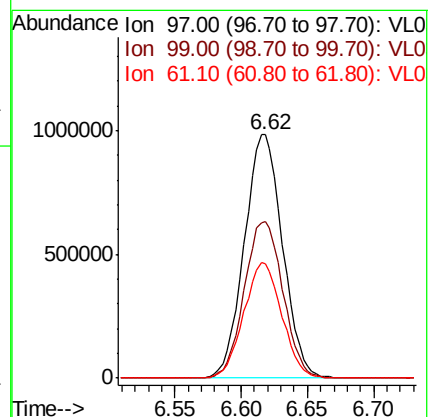
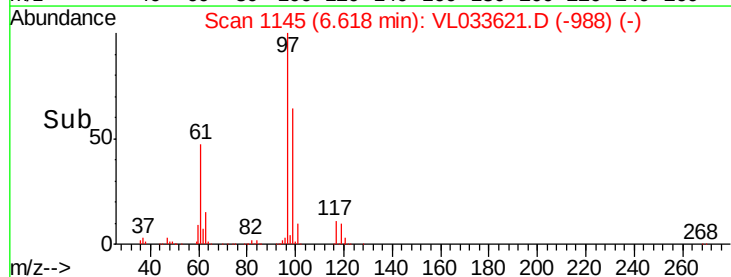
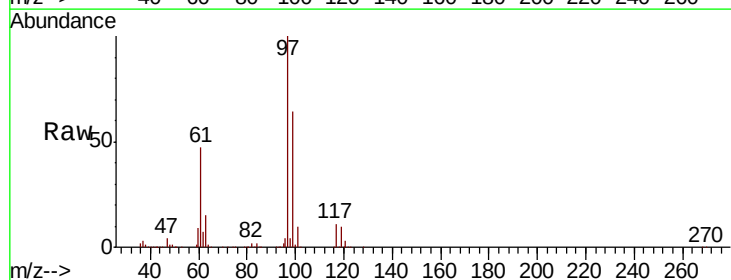
Tgt Ion: 97 Resp: 1969594

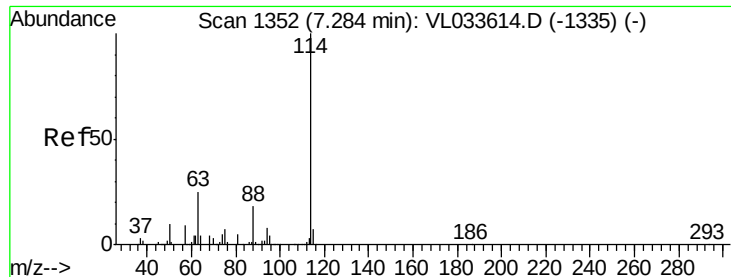
Ion Ratio Lower Upper

97 100

99 65.1 51.9 77.9

61 47.5 38.2 57.2

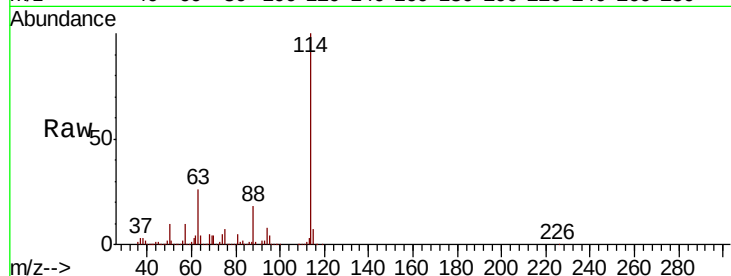




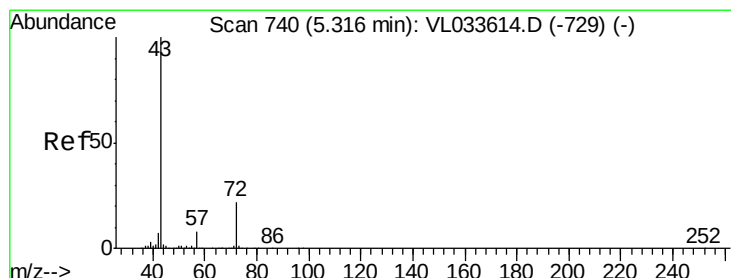
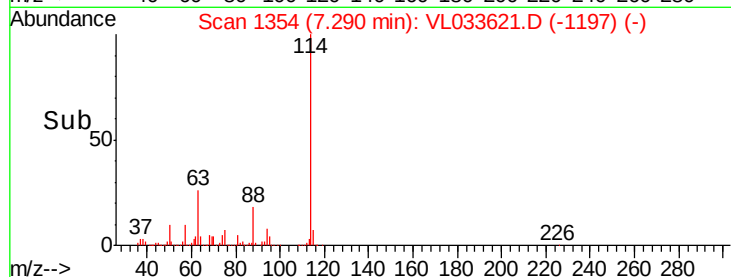
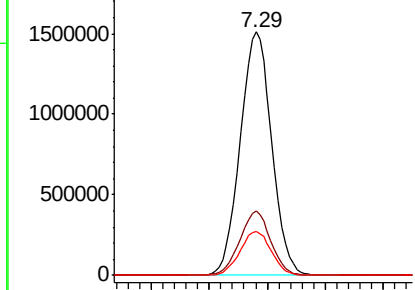
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.29 min Scan# 1354  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

Tgt Ion: 114 Resp: 2846278  
 Ion Ratio Lower Upper  
 114 100  
 63 26.3 21.1 31.7  
 88 18.0 14.2 21.4

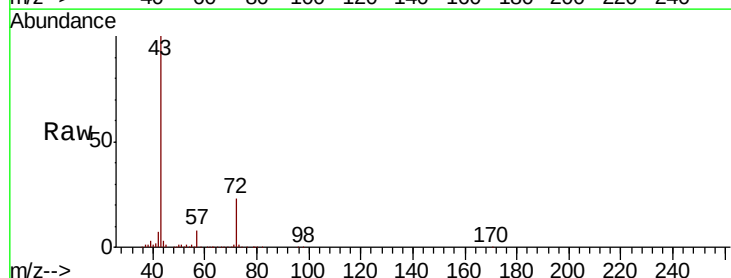


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

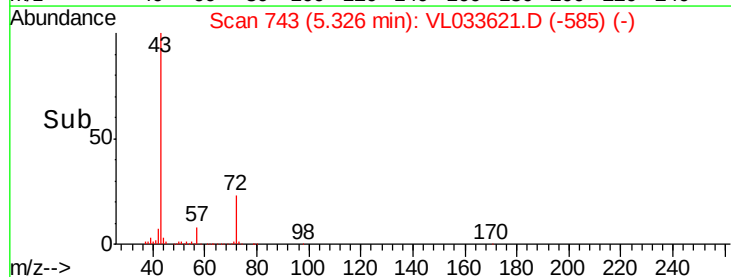
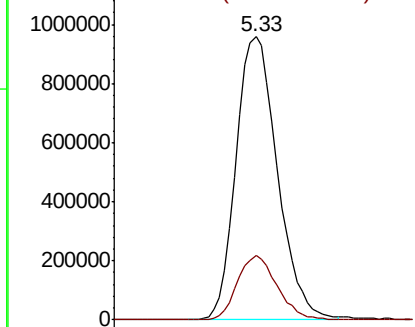


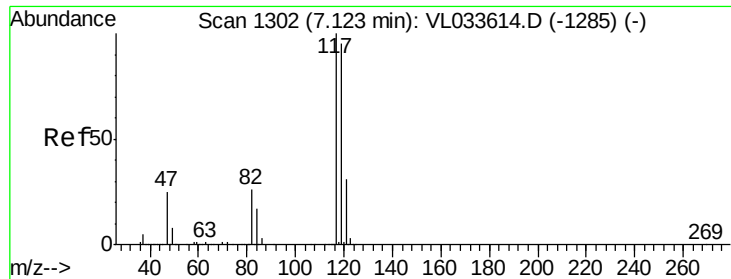
#34  
 2-Butanone  
 Concen: 9.570 ppbv  
 RT: 5.33 min Scan# 743  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion: 43 Resp: 1672216  
 Ion Ratio Lower Upper  
 43 100  
 72 22.3 17.8 26.8



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





#35

Carbon Tetrachloride

Concen: 9.251 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

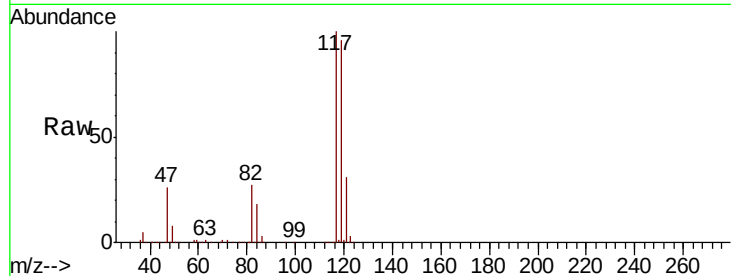
Tgt Ion:117 Resp: 2085932

Ion Ratio Lower Upper

117 100

119 95.7 76.2 114.4

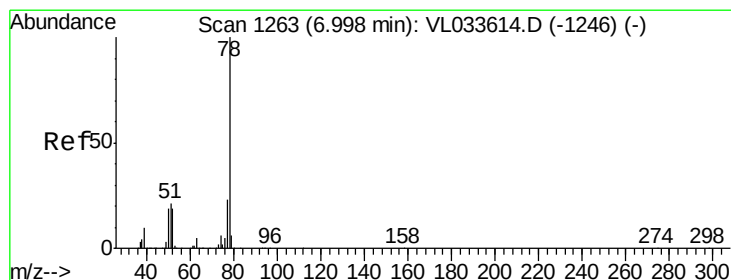
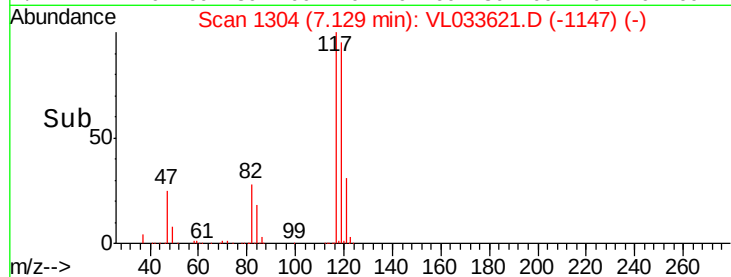
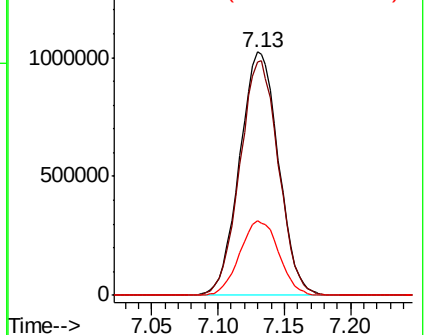
121 30.8 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.875 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

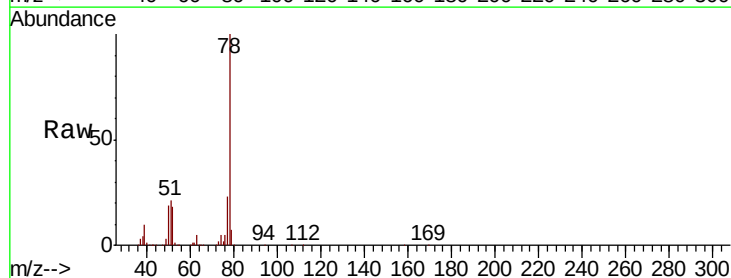
Tgt Ion: 78 Resp: 2394857

Ion Ratio Lower Upper

78 100

77 23.1 18.1 27.1

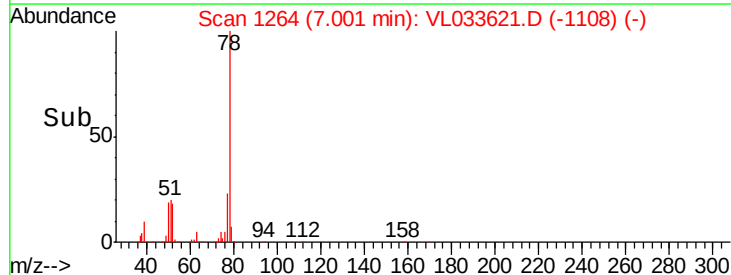
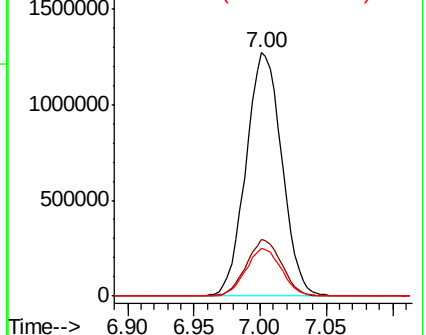
50 19.4 15.1 22.7

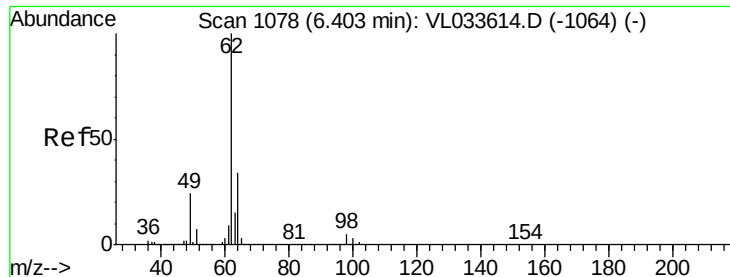


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

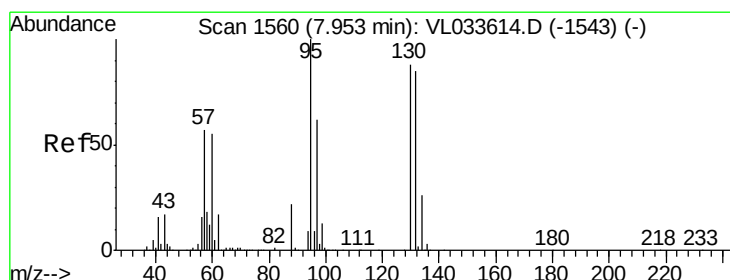
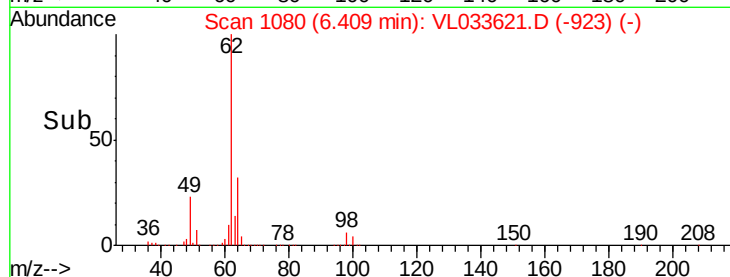
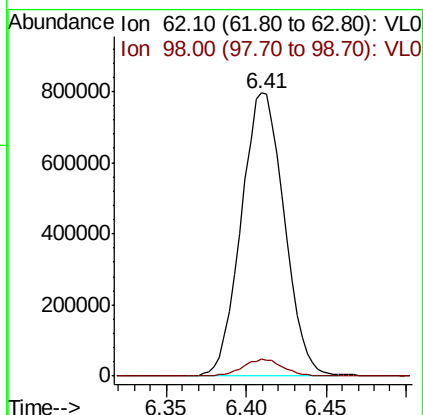
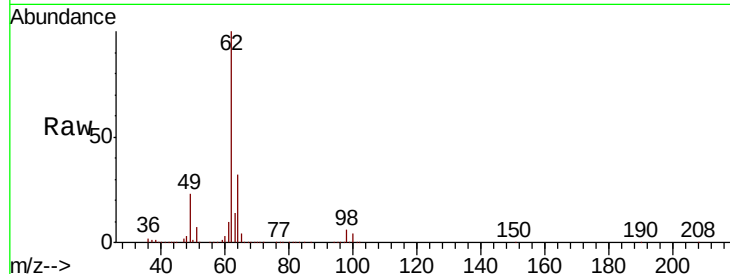




#37  
 1,2-Dichloroethane  
 Concen: 9.099 ppbv  
 RT: 6.41 min Scan# 1080  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

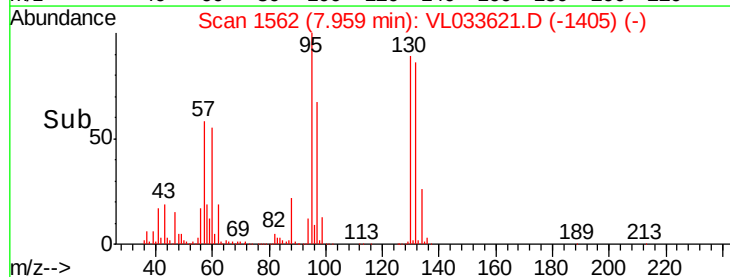
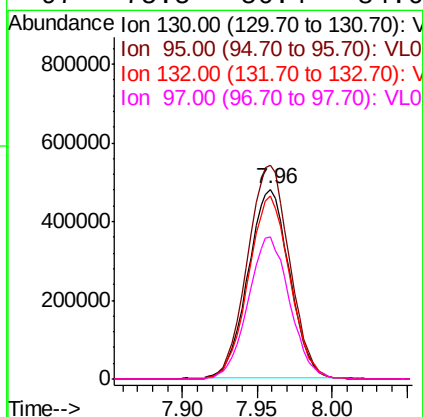
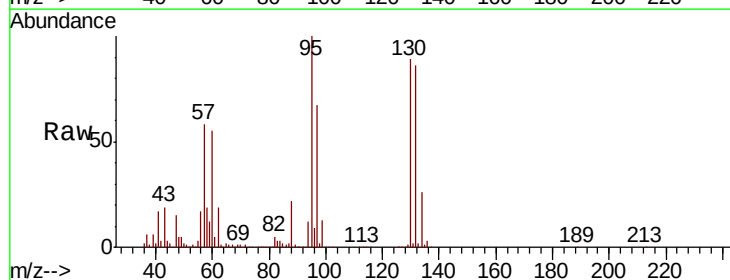
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

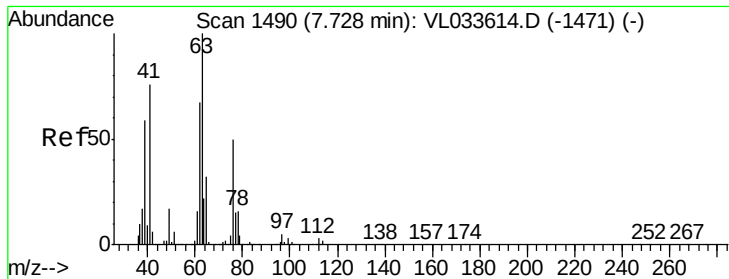
Tgt Ion: 62 Resp: 1466324  
 Ion Ratio Lower Upper  
 62 100  
 98 5.7 4.4 6.6



#38  
 Trichloroethene  
 Concen: 9.566 ppbv  
 RT: 7.96 min Scan# 1562  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion: 130 Resp: 925231  
 Ion Ratio Lower Upper  
 130 100  
 95 113.0 91.2 136.8  
 132 96.7 77.8 116.8  
 97 75.5 56.4 84.6





#39

1,2-Dichloropropane

Concen: 9.619 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

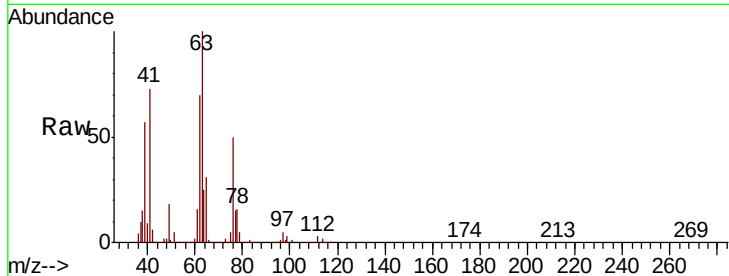
Tgt Ion: 63 Resp: 879685

Ion Ratio Lower Upper

63 100

41 72.8 60.9 91.3

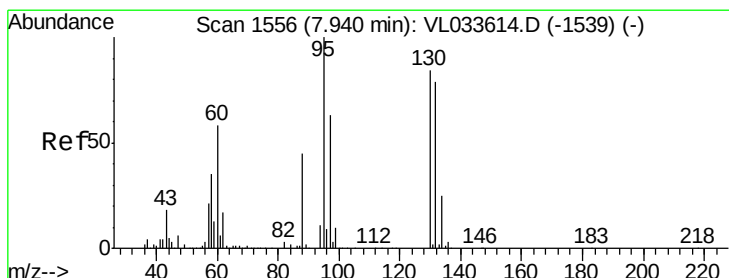
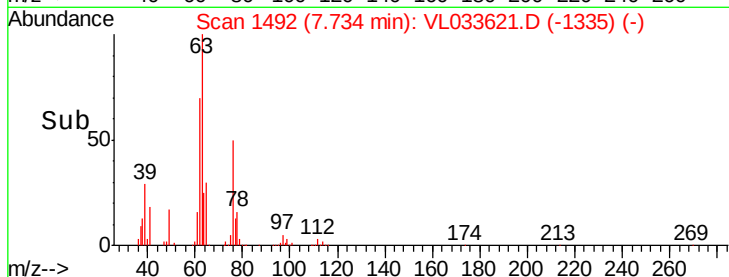
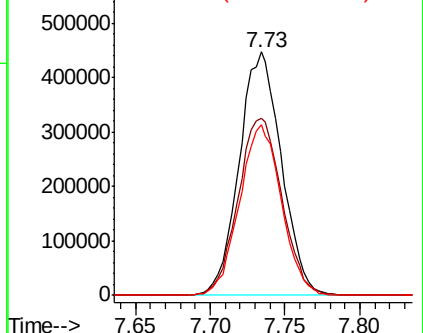
62 69.9 53.3 79.9



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.465 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Tgt Ion: 88 Resp: 351705

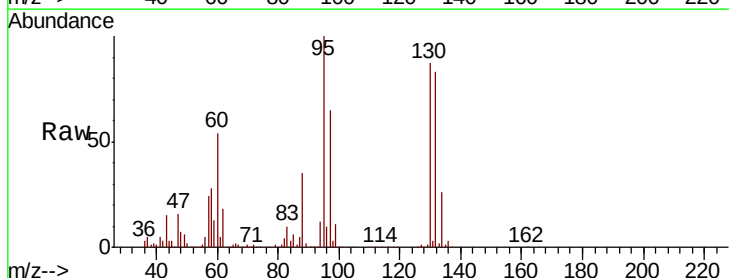
Ion Ratio Lower Upper

88 100

58 127.3 98.4 147.6

43 249.7 190.7 286.1

57 1119.0 844.5 1266.7

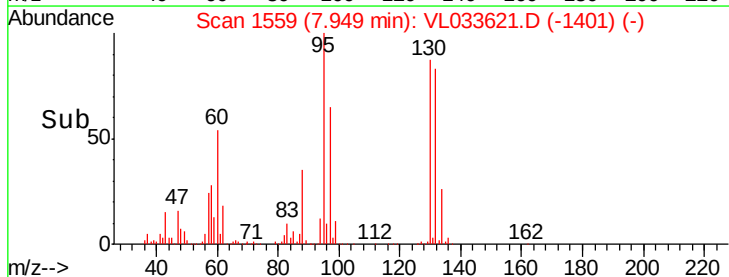
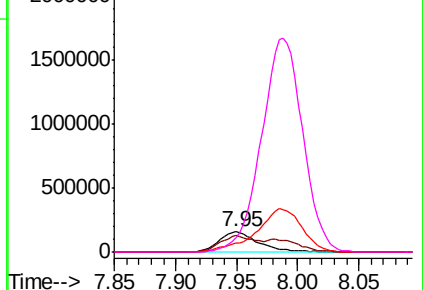


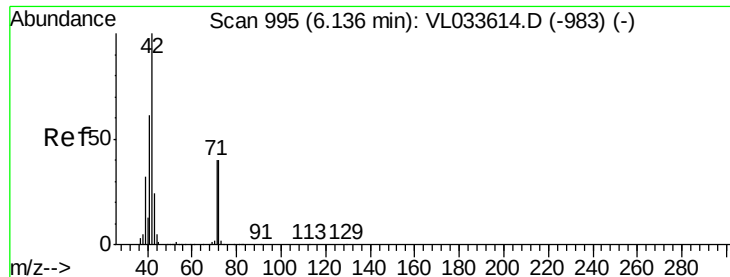
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.157 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

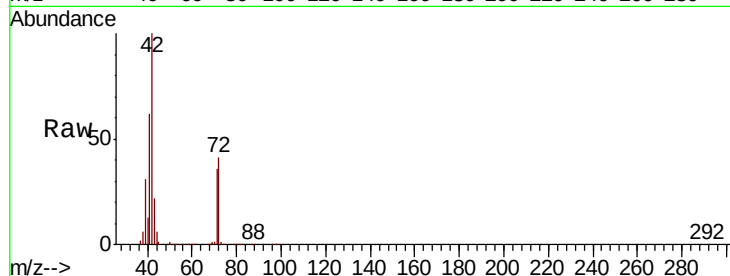
Tgt Ion: 42 Resp: 947793

Ion Ratio Lower Upper

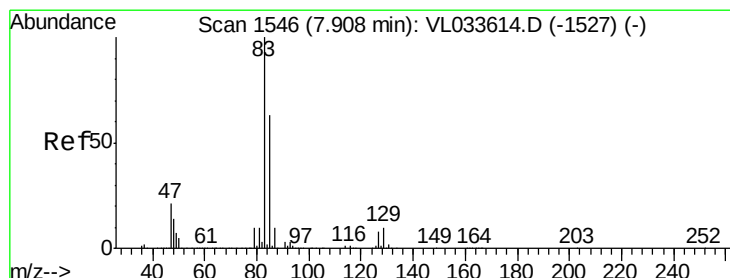
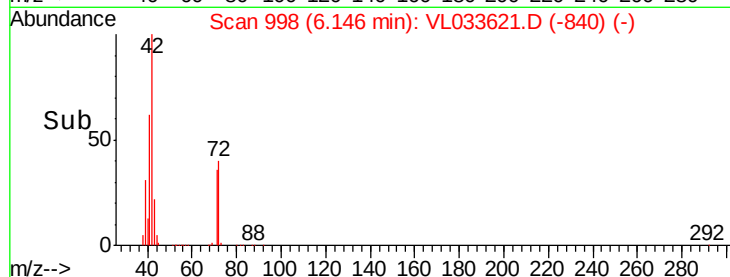
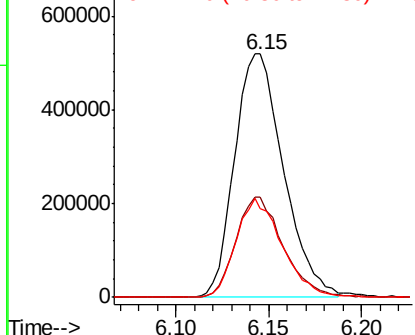
42 100

72 40.3 31.8 47.6

71 38.4 31.0 46.4



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



#42

Bromodichloromethane

Concen: 9.479 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

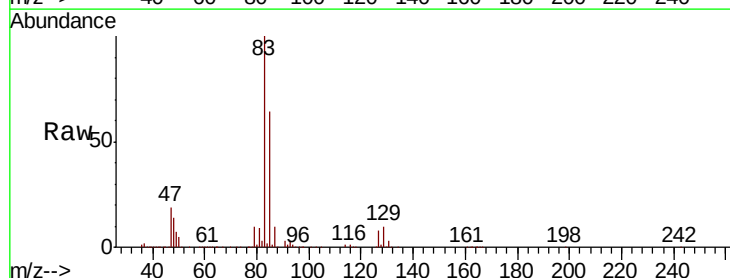
Tgt Ion: 83 Resp: 2067250

Ion Ratio Lower Upper

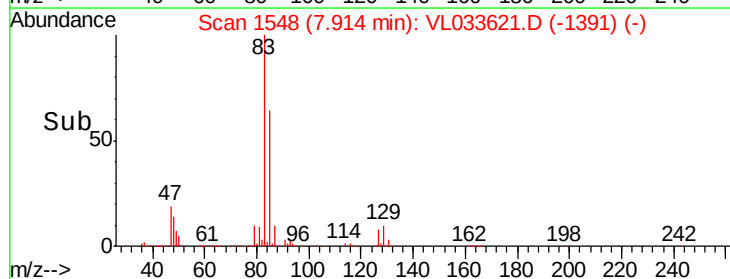
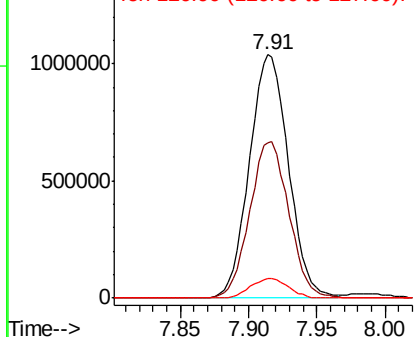
83 100

85 63.8 50.2 75.4

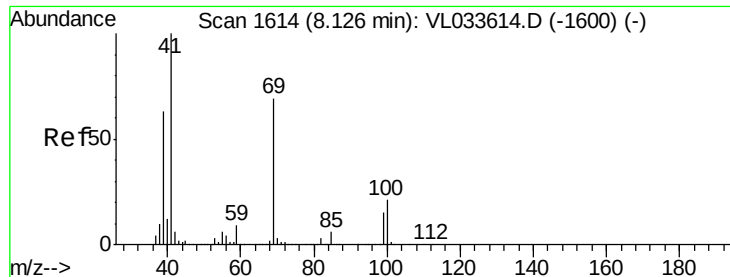
127 8.1 6.5 9.7



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



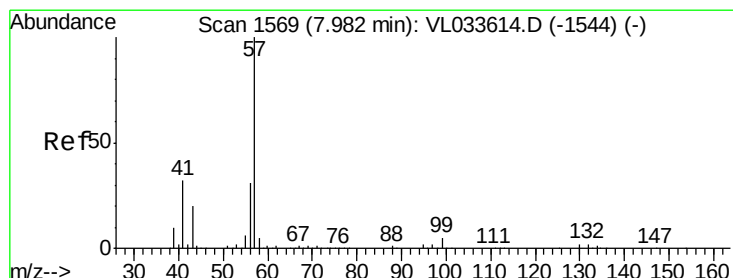
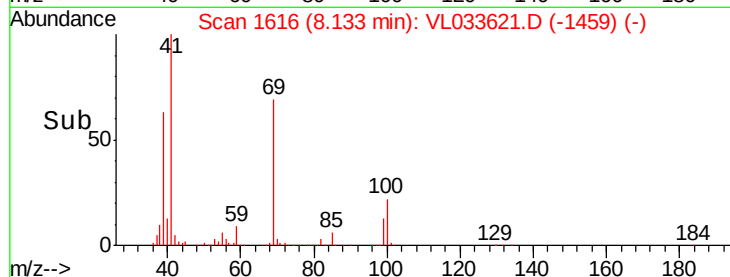
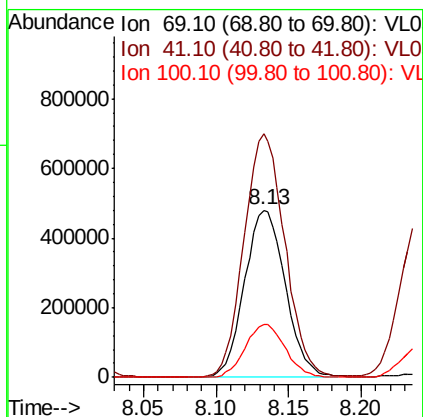
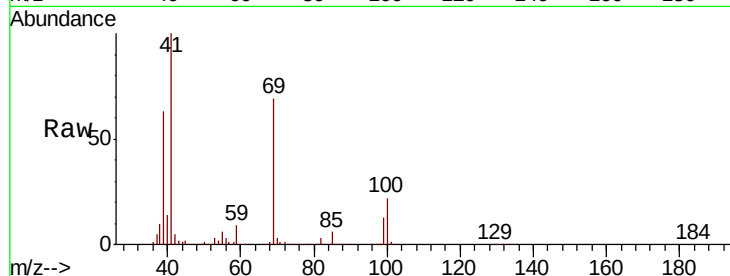




#43  
Methyl Methacrylate  
Concen: 10.258 ppbv  
RT: 8.13 min Scan# 1616  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

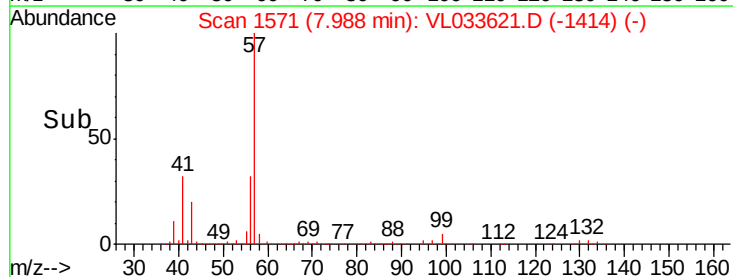
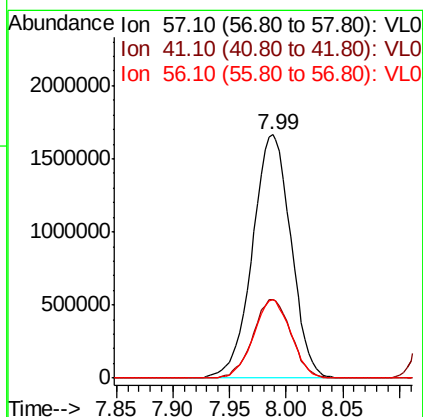
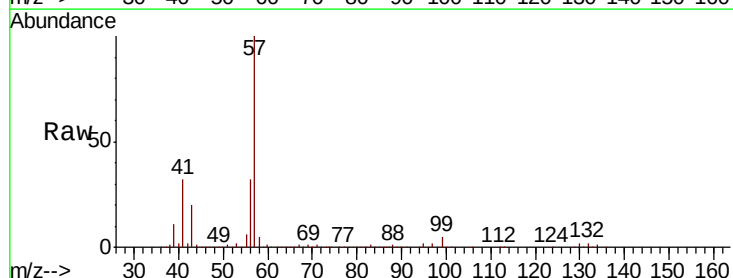
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

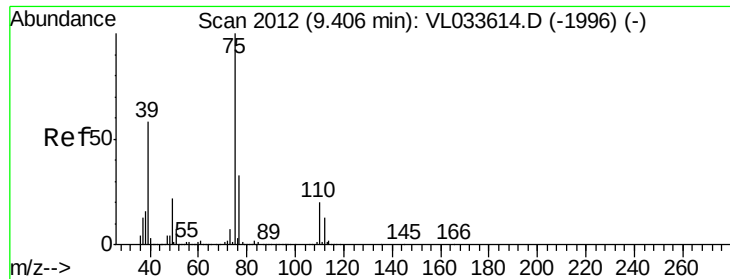
Tgt Ion: 69 Resp: 942072  
Ion Ratio Lower Upper  
69 100  
41 145.6 115.0 172.4  
100 31.0 24.7 37.1



#44  
2,2,4-Trimethylpentane  
Concen: 9.299 ppbv  
RT: 7.99 min Scan# 1571  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 57 Resp: 3930018  
Ion Ratio Lower Upper  
57 100  
41 31.9 25.4 38.2  
56 31.2 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 10.580 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

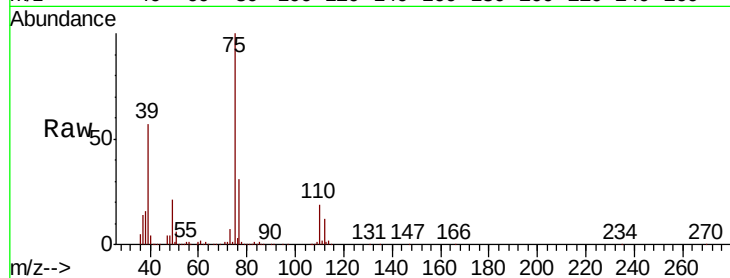
ICVVL050119

Tgt Ion: 75 Resp: 1290454

Ion Ratio Lower Upper

75 100

77 31.5 26.0 39.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

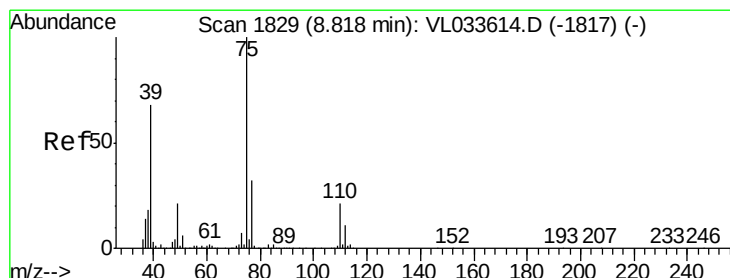
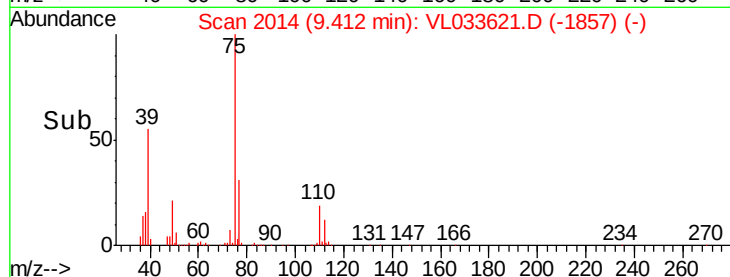
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.601 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

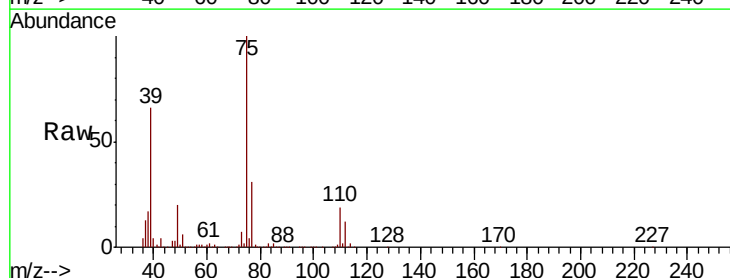
Tgt Ion: 75 Resp: 1458423

Ion Ratio Lower Upper

75 100

39 66.1 54.6 82.0

77 30.9 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

1000000

800000

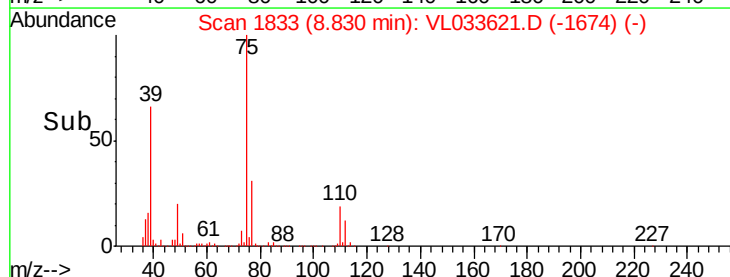
600000

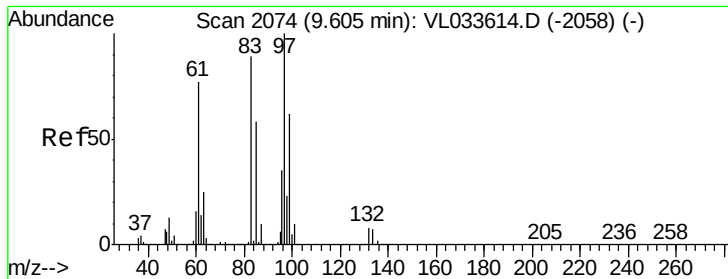
400000

200000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 8.236 ppbv

RT: 9.61 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

Tgt Ion: 97 Resp: 982358

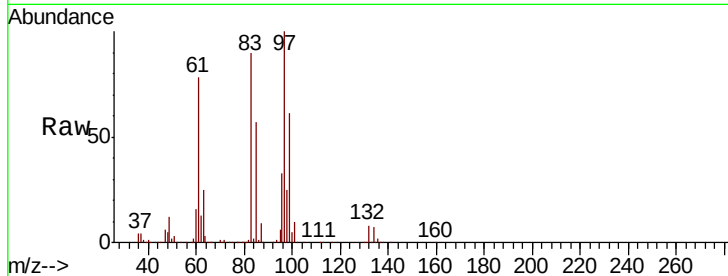
Ion Ratio Lower Upper

97 100

83 89.6 71.4 107.0

85 57.3 46.0 69.0

99 61.1 49.6 74.4

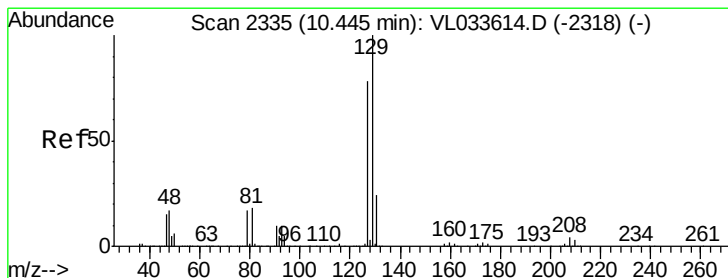
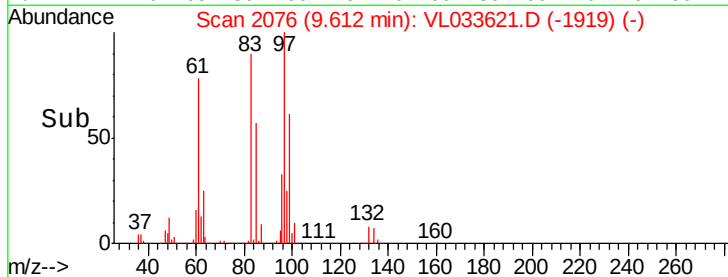
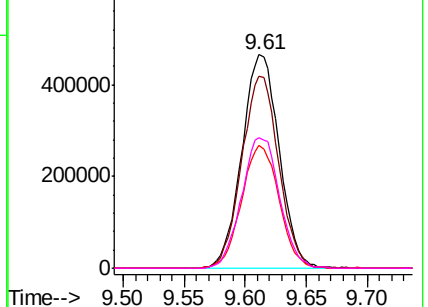


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.795 ppbv

RT: 10.45 min Scan# 2336

Delta R.T. 0.00 min

Lab File: VL033621.D

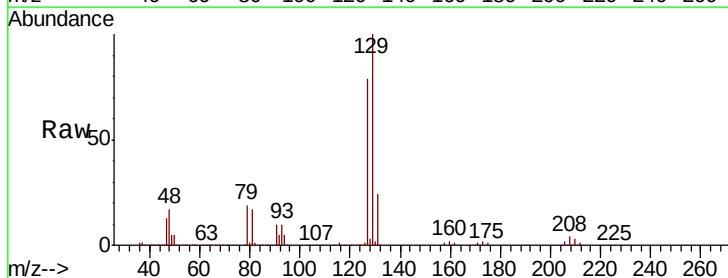
Acq: 1 May 2019 17:26

Tgt Ion: 129 Resp: 1774257

Ion Ratio Lower Upper

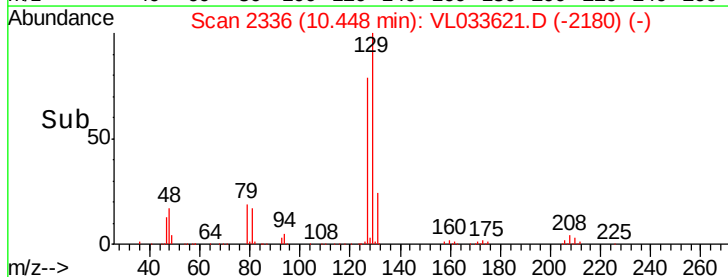
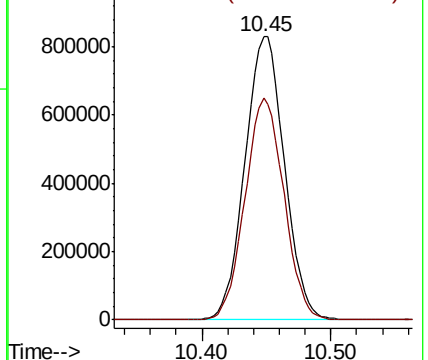
129 100

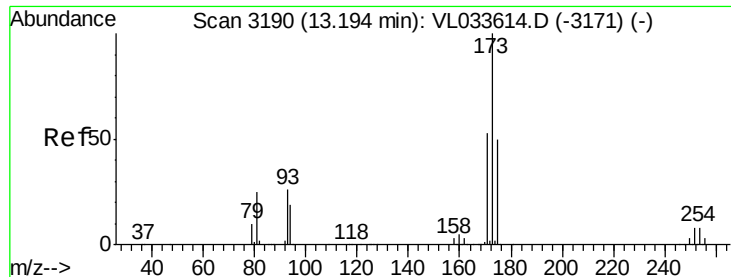
127 77.3 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.265 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

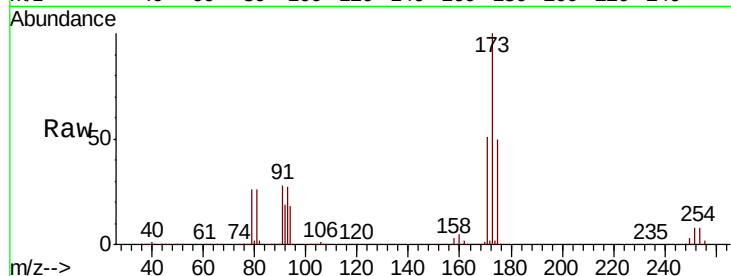
Tgt Ion:173 Resp: 1586457

Ion Ratio Lower Upper

173 100

175 49.5 39.0 58.6

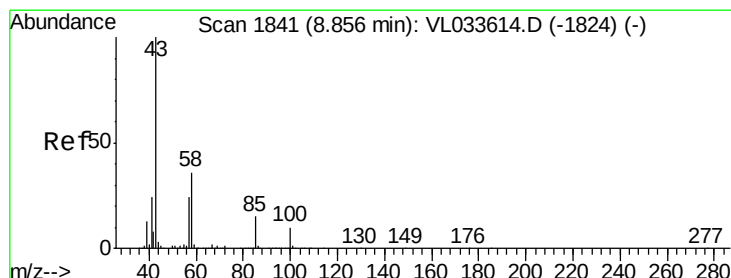
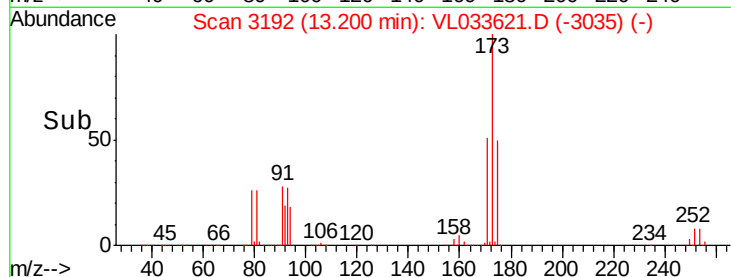
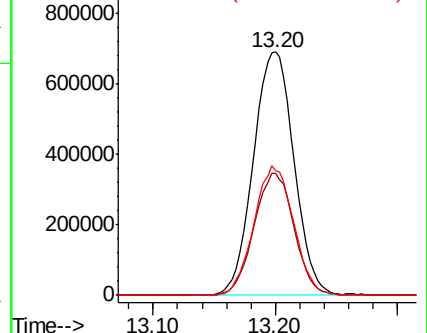
171 52.0 41.6 62.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.400 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VL033621.D

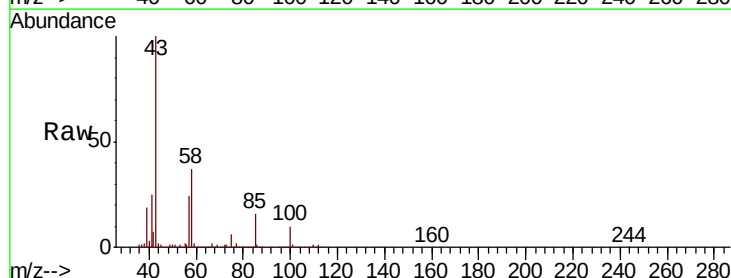
Acq: 1 May 2019 17:26

Tgt Ion: 43 Resp: 2573616

Ion Ratio Lower Upper

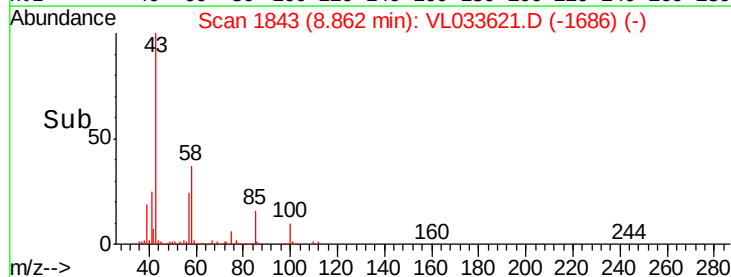
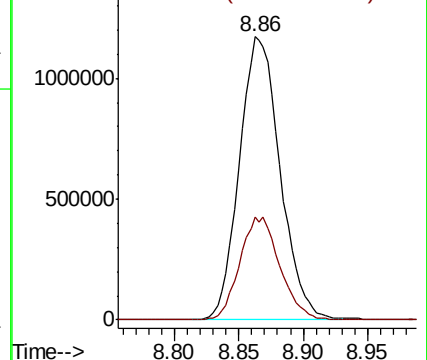
43 100

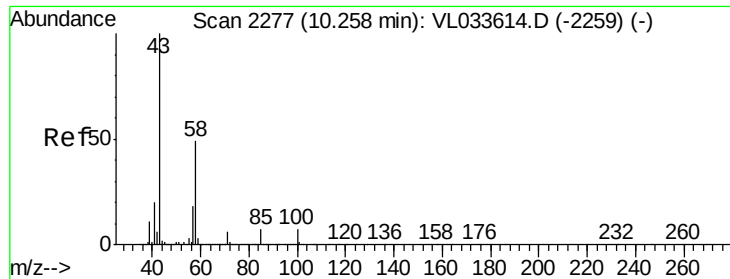
58 35.8 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 8.837 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument:

MSVOA\_L

ClientSampleId:

ICVVL050119

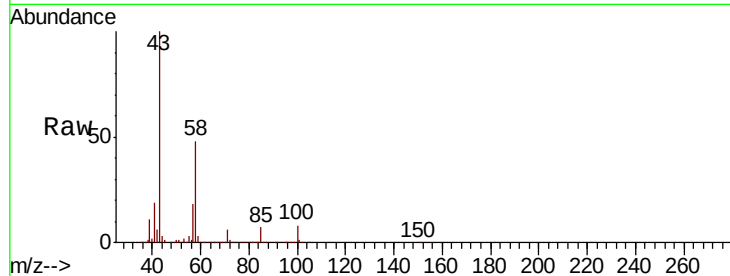
Tgt Ion: 43 Resp: 2124259

Ion Ratio Lower Upper

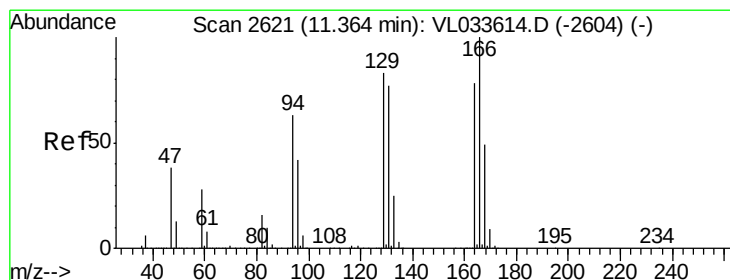
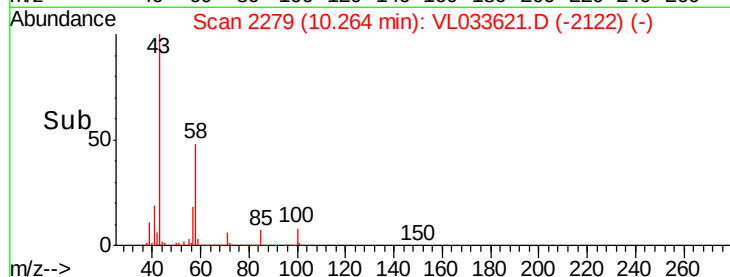
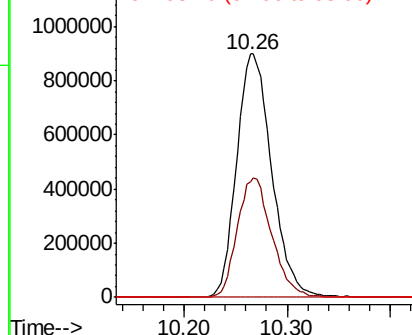
43 100

58 48.4 38.5 57.7

98 0.2 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.731 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Tgt Ion: 164 Resp: 907368

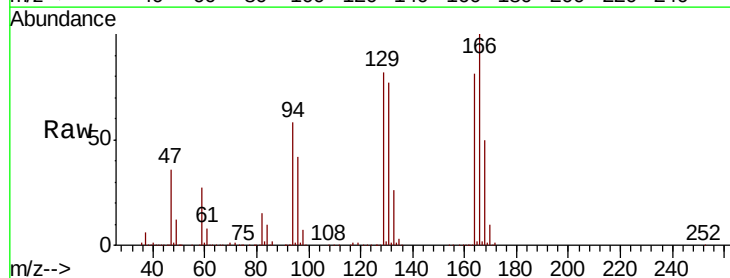
Ion Ratio Lower Upper

164 100

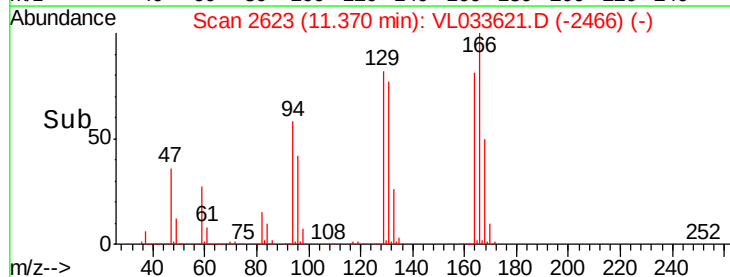
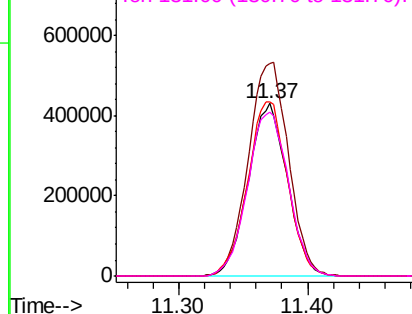
166 122.9 102.2 153.4

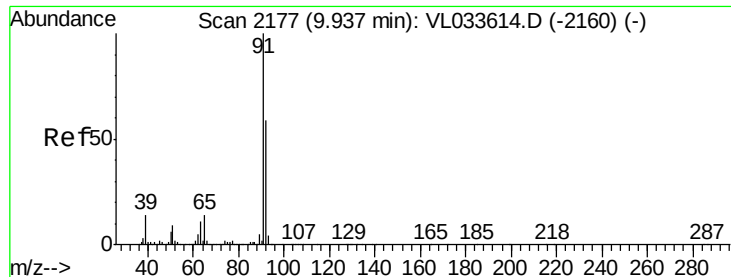
129 100.9 84.4 126.6

131 94.9 79.2 118.8



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: 9.027 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

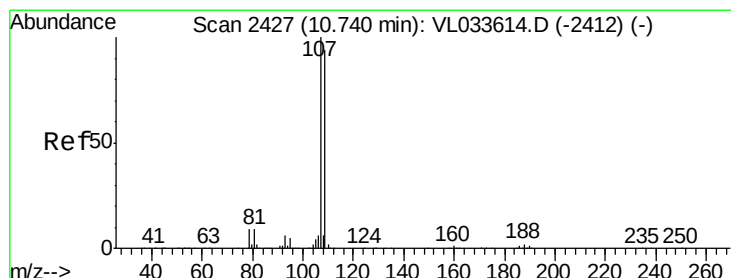
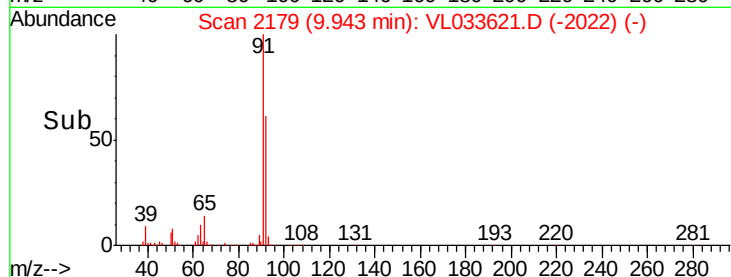
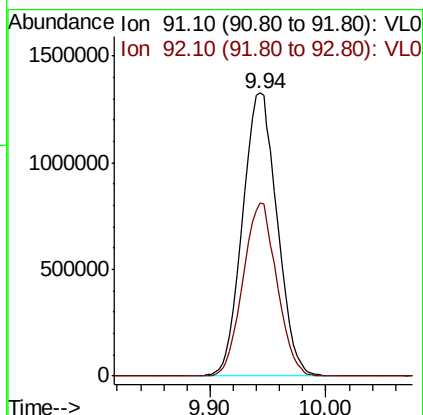
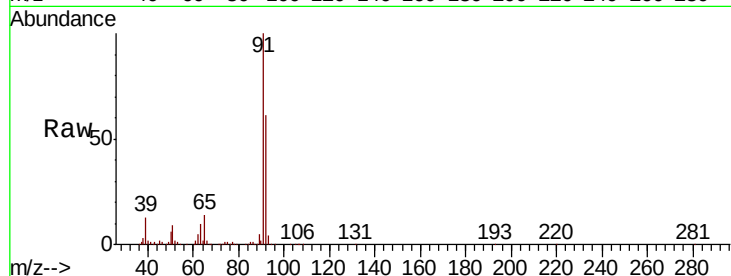
ICVVL050119

Tgt Ion: 91 Resp: 2762618

Ion Ratio Lower Upper

91 100

92 60.0 47.8 71.6



#54

1,2-Dibromoethane

Concen: 9.508 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.02 min

Lab File: VL033621.D

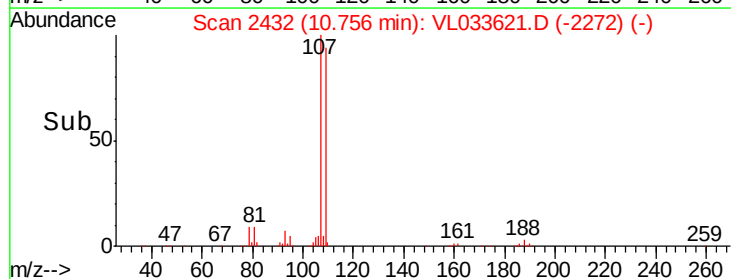
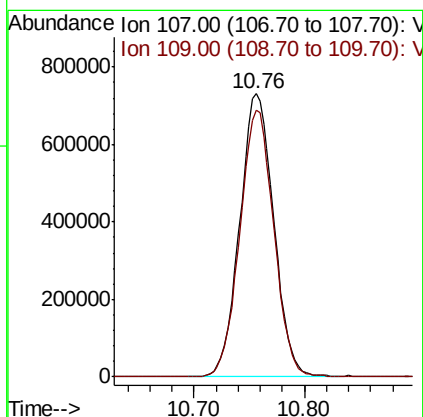
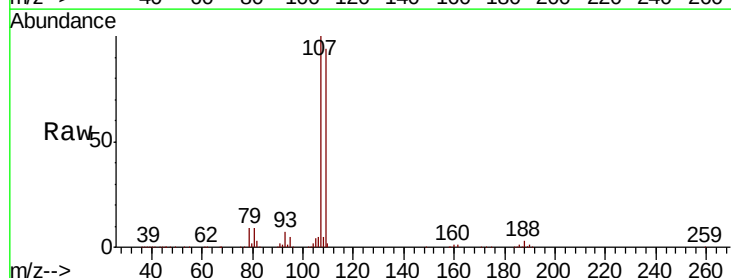
Acq: 1 May 2019 17:26

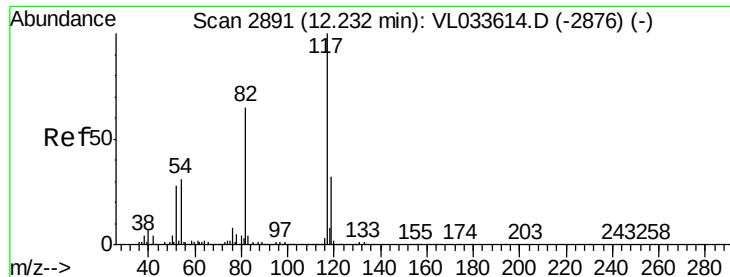
Tgt Ion: 107 Resp: 1559928

Ion Ratio Lower Upper

107 100

109 94.5 75.1 112.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

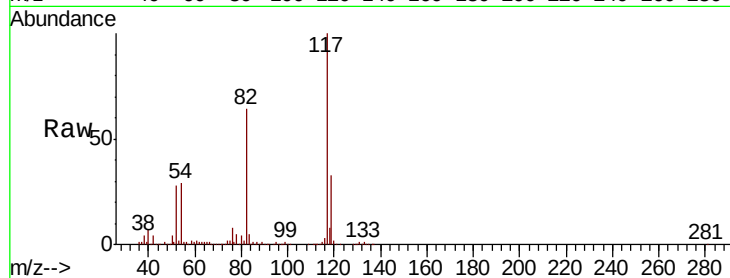
Tgt Ion:117 Resp: 3609691

Ion Ratio Lower Upper

117 100

82 53.2 52.6 78.8

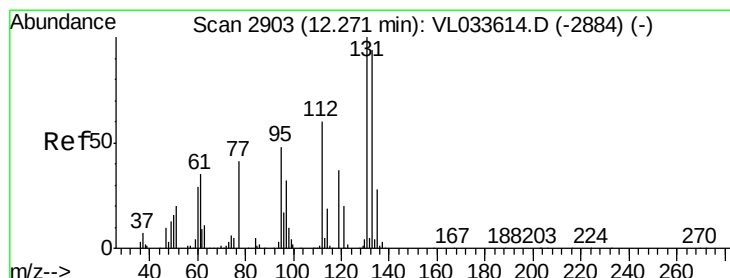
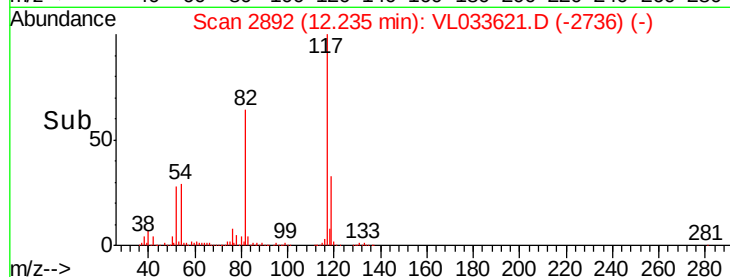
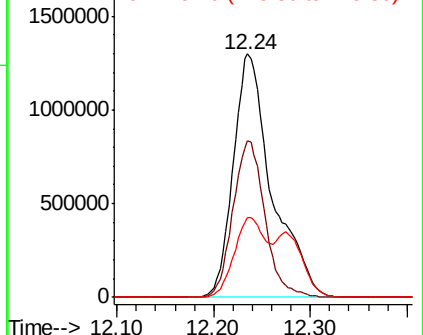
119 45.8 28.3 42.5#



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: 7.665 ppbv

RT: 12.28 min Scan# 2905

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

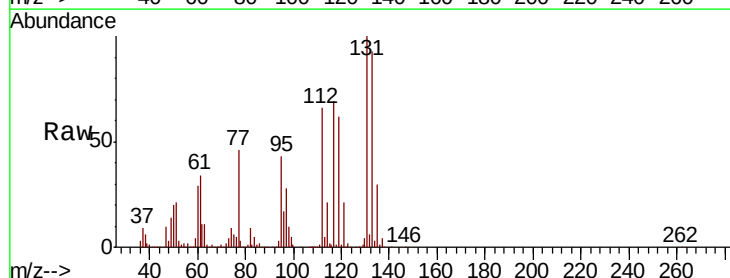
Tgt Ion:131 Resp: 1191804

Ion Ratio Lower Upper

131 100

133 95.8 76.4 114.6

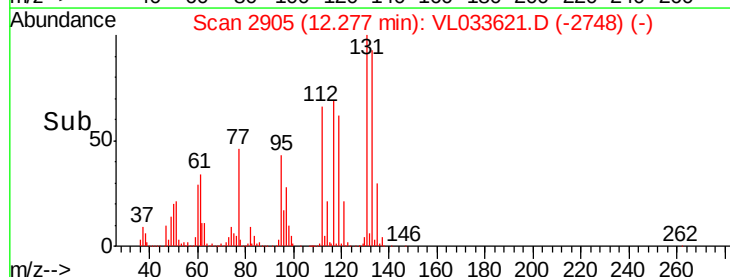
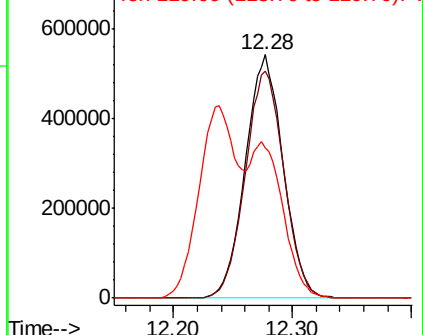
119 139.1 40.9 61.3#

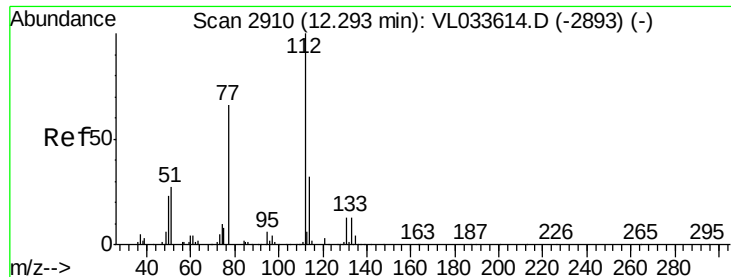


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

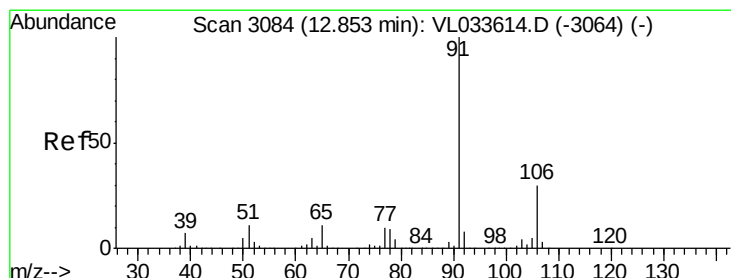
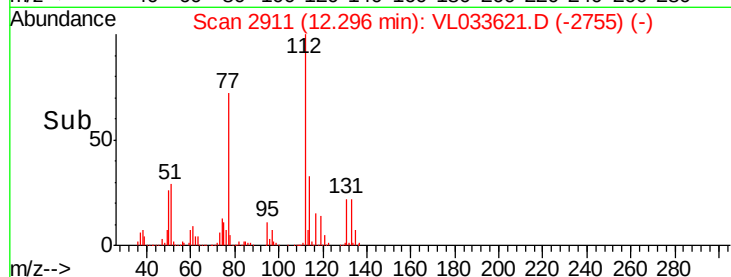
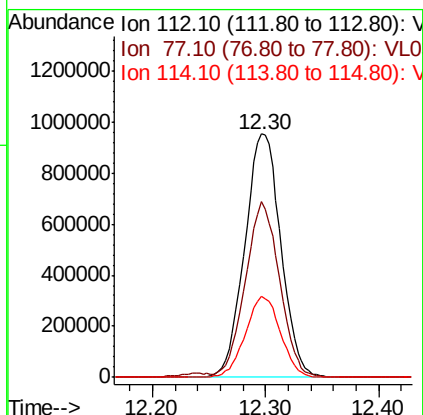
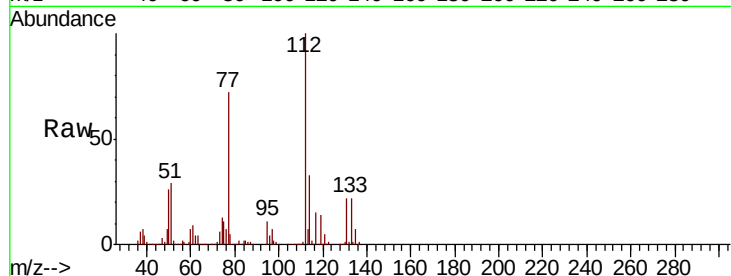




#57  
Chlorobenzene  
Concen: 7.614 ppbv  
RT: 12.30 min Scan# 2911  
Delta R.T. 0.00 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

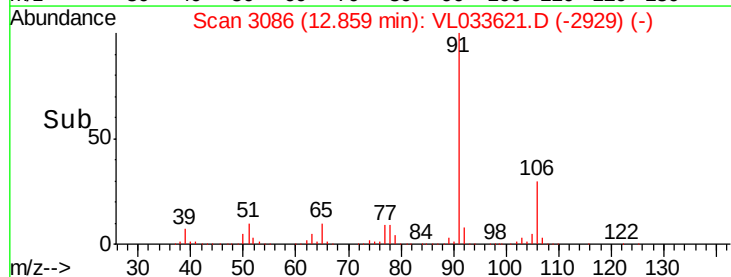
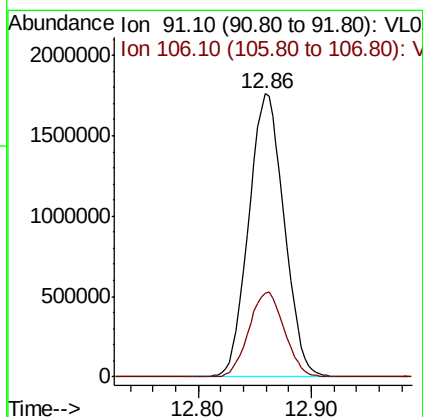
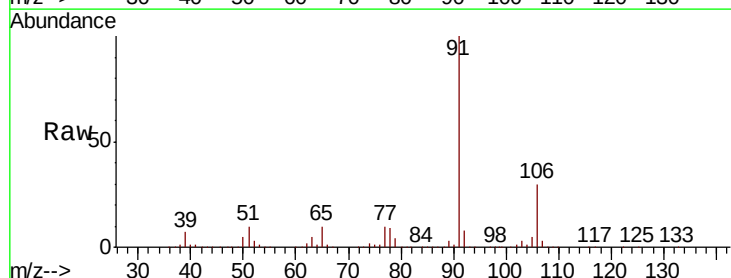
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

Tgt Ion: 112 Resp: 2109444  
Ion Ratio Lower Upper  
112 100  
77 71.9 53.6 80.4  
114 33.2 29.1 35.5

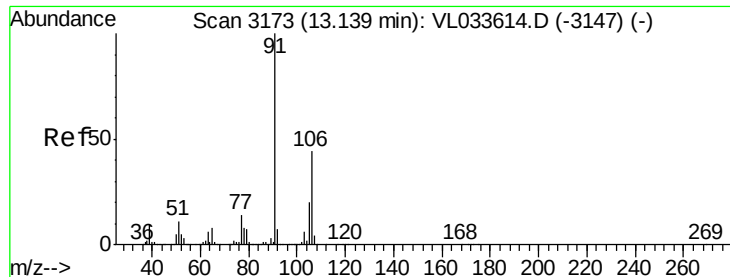


#58  
Ethyl Benzene  
Concen: 9.218 ppbv  
RT: 12.86 min Scan# 3086  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 91 Resp: 3831590  
Ion Ratio Lower Upper  
91 100  
106 29.6 23.6 35.4



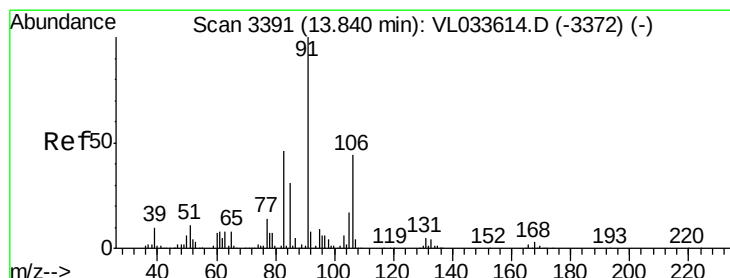
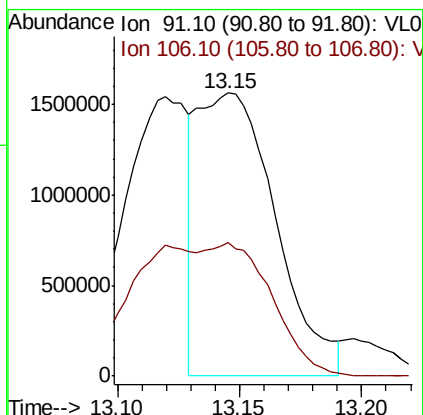
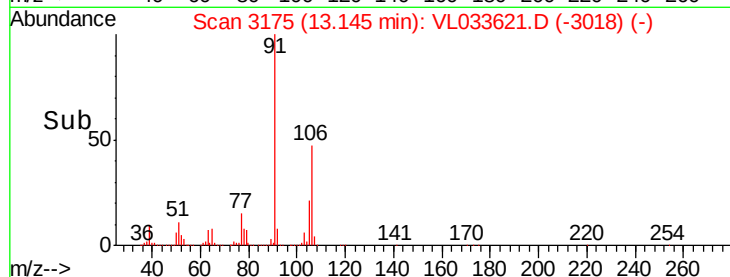
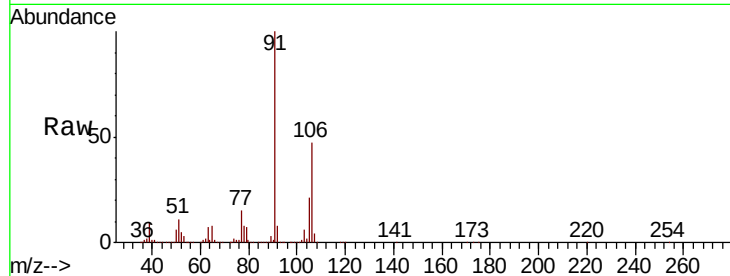




#59  
m/p-Xylene  
Concen: 9.659 ppbv  
RT: 13.15 min Scan# 3175  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

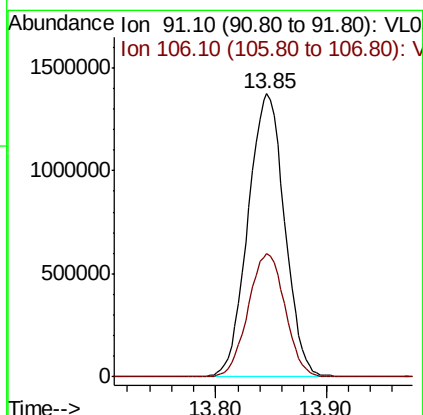
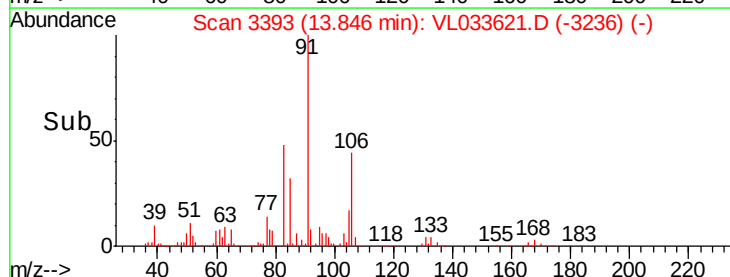
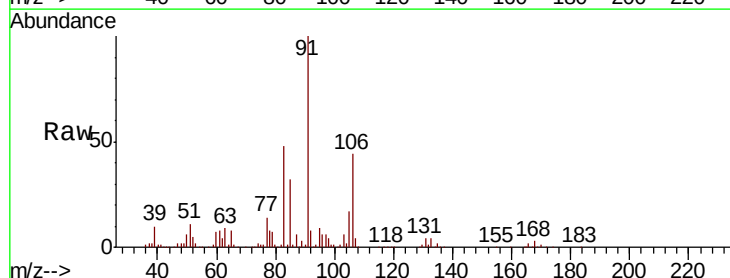
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL050119

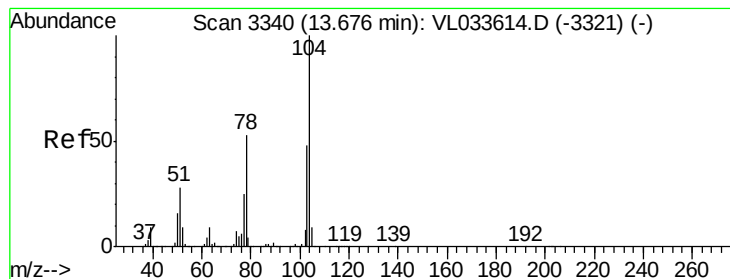
Tgt Ion: 91 Resp: 3453985  
Ion Ratio Lower Upper  
91 100  
106 83.0 0.0 0.0#



#60  
o-Xylene  
Concen: 8.746 ppbv  
RT: 13.85 min Scan# 3393  
Delta R.T. 0.01 min  
Lab File: VL033621.D  
Acq: 1 May 2019 17:26

Tgt Ion: 91 Resp: 3159127  
Ion Ratio Lower Upper  
91 100  
106 43.9 21.8 65.4





#61

Styrene

Concen: 9.741 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

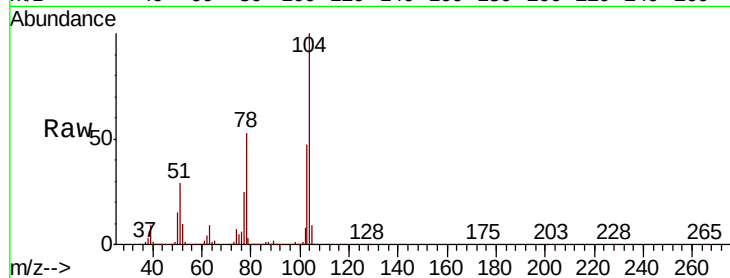
Tgt Ion:104 Resp: 2404852

Ion Ratio Lower Upper

104 100

78 53.3 42.7 64.1

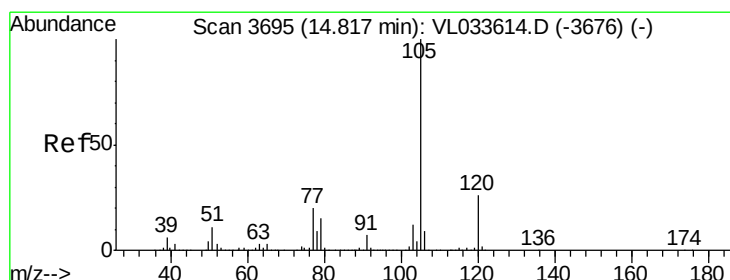
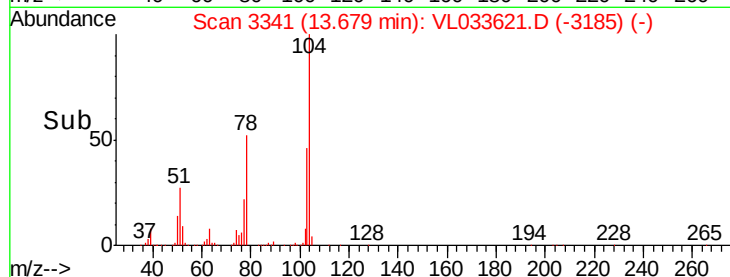
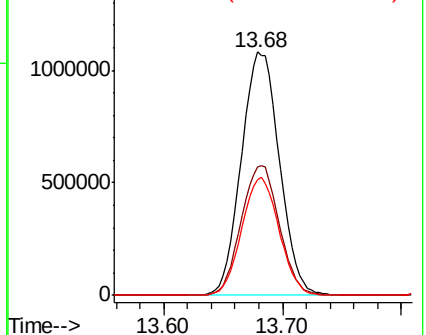
103 47.4 37.8 56.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.807 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.01 min

Lab File: VL033621.D

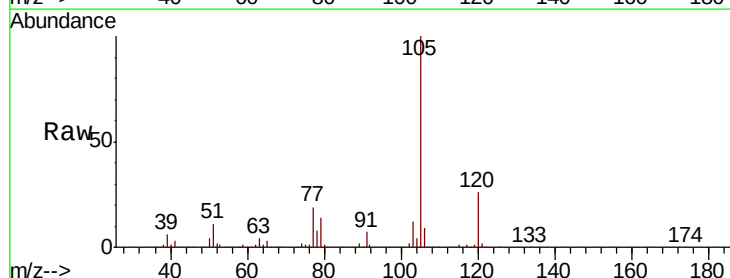
Acq: 1 May 2019 17:26

Tgt Ion:105 Resp: 4251272

Ion Ratio Lower Upper

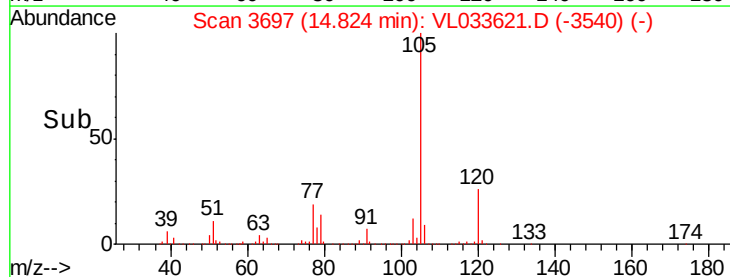
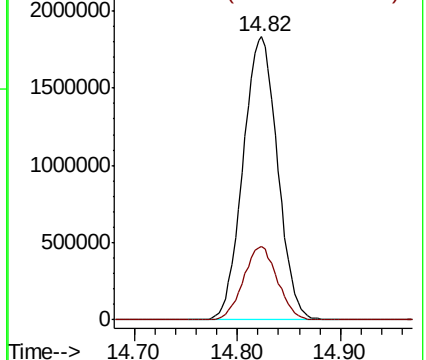
105 100

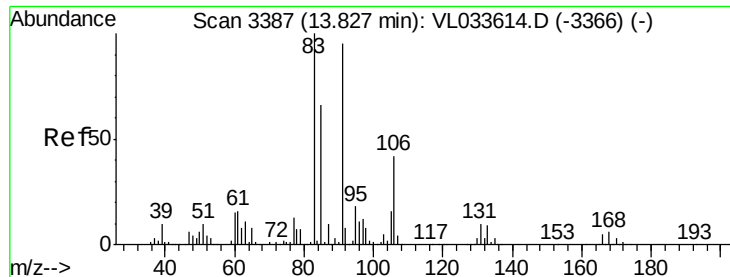
120 25.4 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.691 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

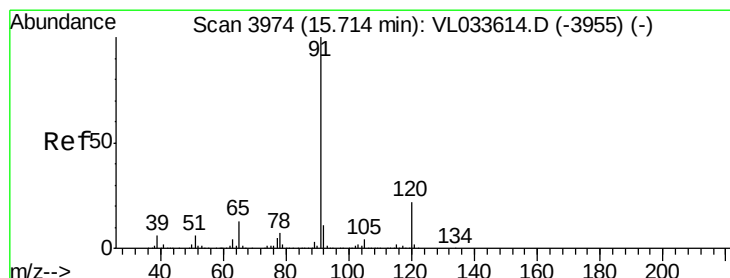
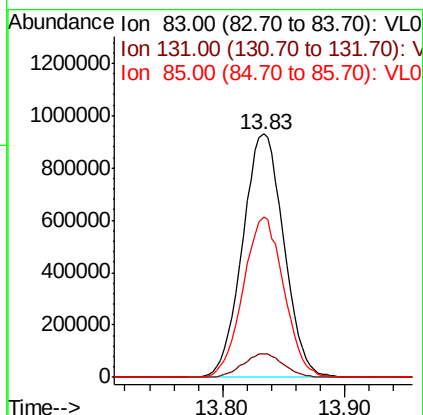
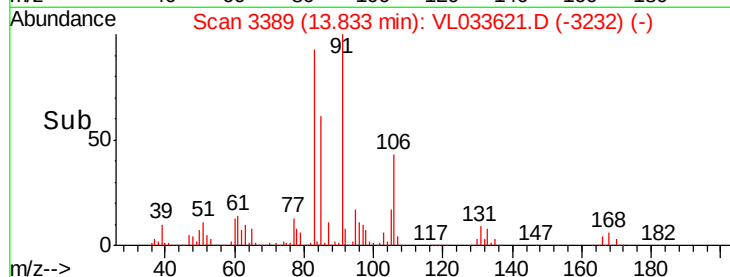
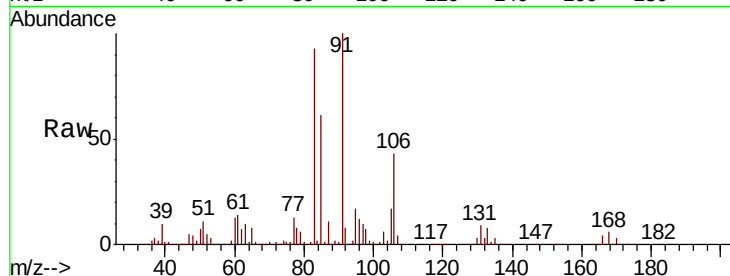
Tgt Ion: 83 Resp: 2168669

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

85 65.2 32.3 96.8



#64

n-propylbenzene

Concen: 8.799 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VL033621.D

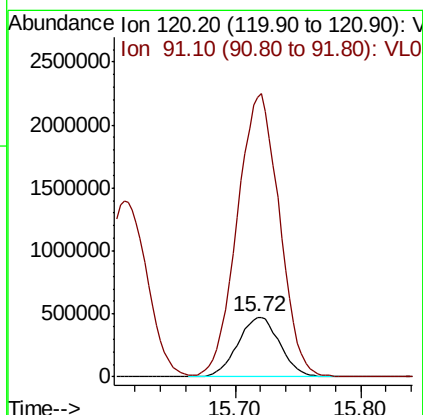
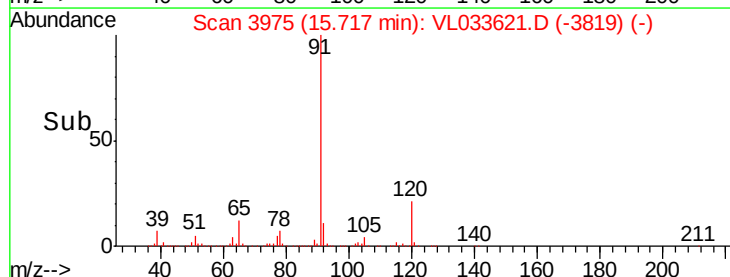
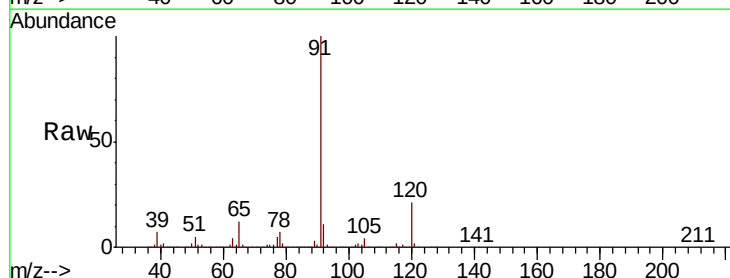
Acq: 1 May 2019 17:26

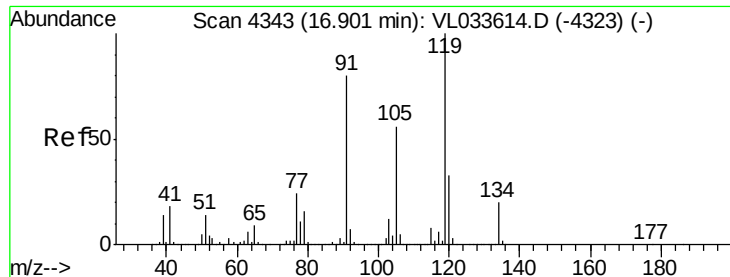
Tgt Ion: 120 Resp: 1101755

Ion Ratio Lower Upper

120 100

91 478.1 380.2 570.2

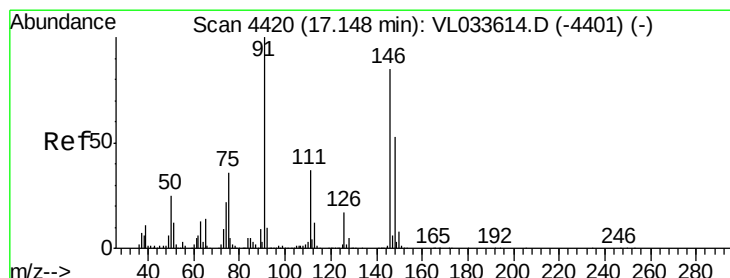
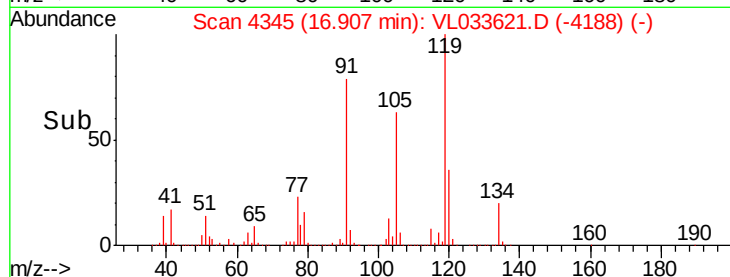
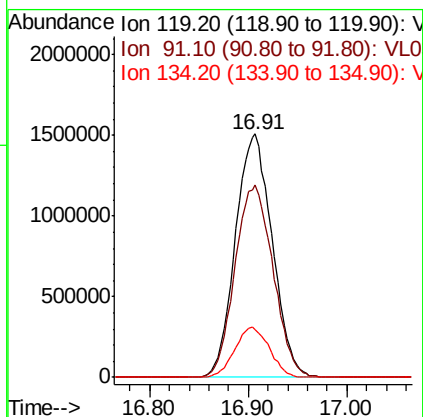
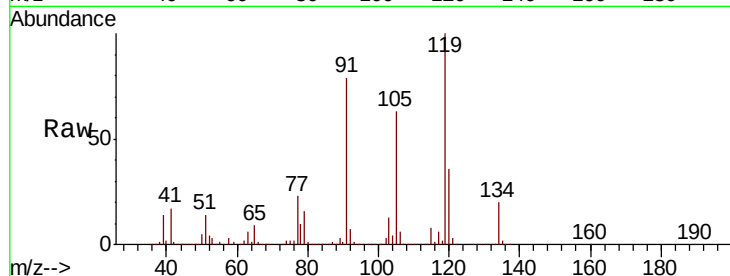




#65  
 tert-Butylbenzene  
 Concen: 8.633 ppbv  
 RT: 16.91 min Scan# 4345  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

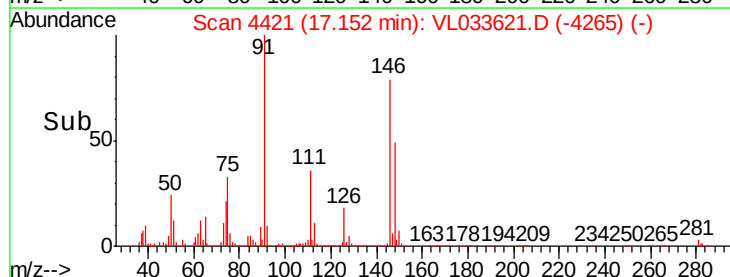
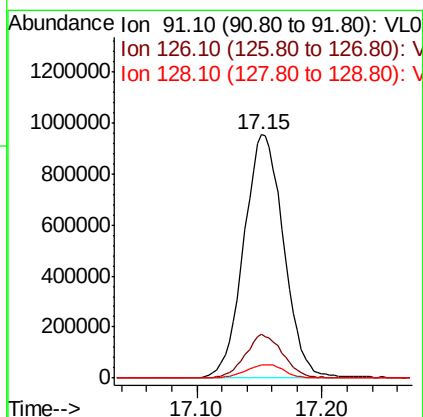
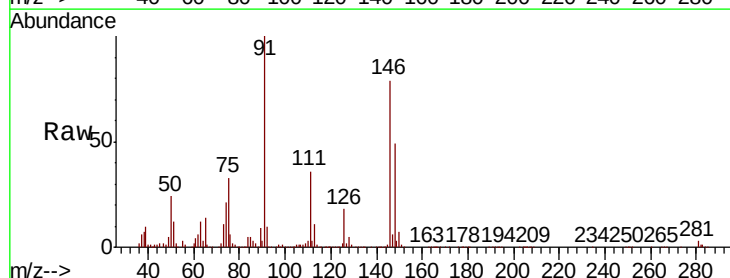
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

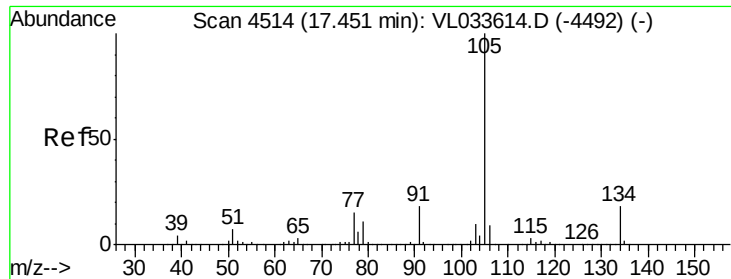
Tgt Ion: 119 Resp: 3897323  
 Ion Ratio Lower Upper  
 119 100  
 91 81.8 66.1 99.1  
 134 19.5 15.6 23.4



#66  
 Benzyl Chloride  
 Concen: 10.247 ppbv  
 RT: 17.15 min Scan# 4421  
 Delta R.T. 0.00 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion: 91 Resp: 2097787  
 Ion Ratio Lower Upper  
 91 100  
 126 17.0 13.4 20.2  
 128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.620 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

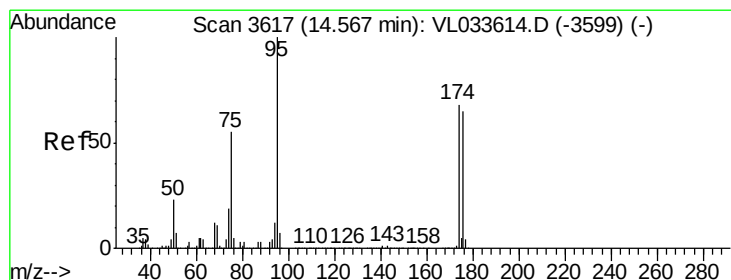
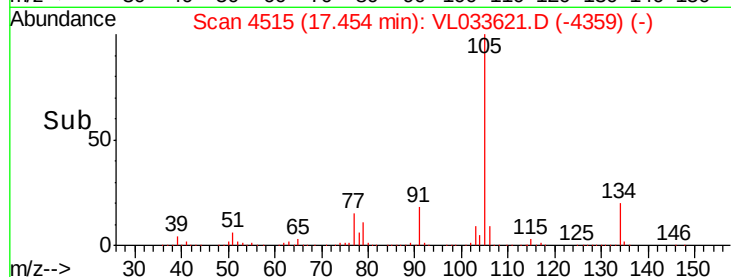
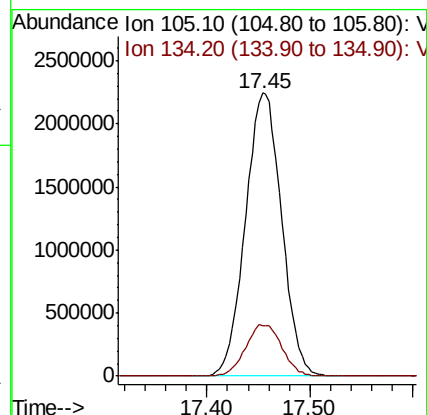
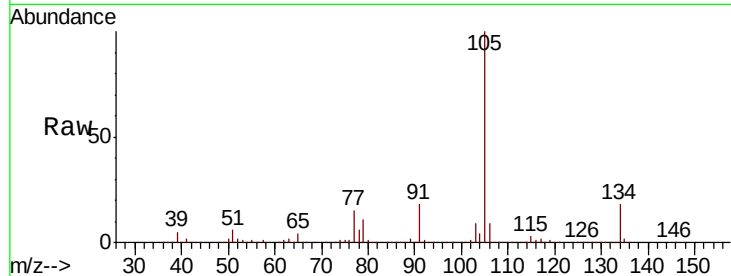
ICVVL050119

Tgt Ion:105 Resp: 5465182

Ion Ratio Lower Upper

105 100

134 18.3 14.6 21.8



#68

1-Bromo-4-Fluorobenzene

Concen: 8.576 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

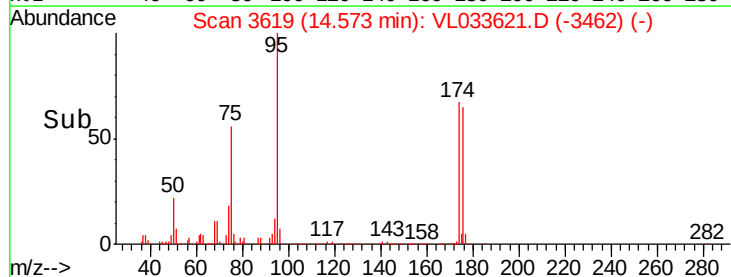
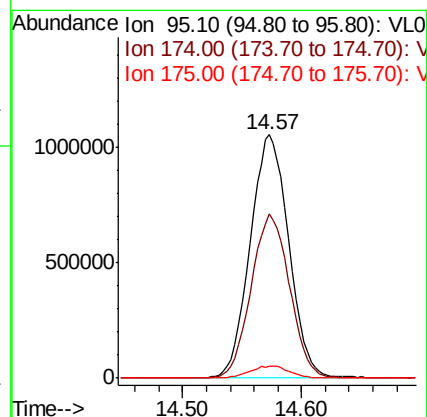
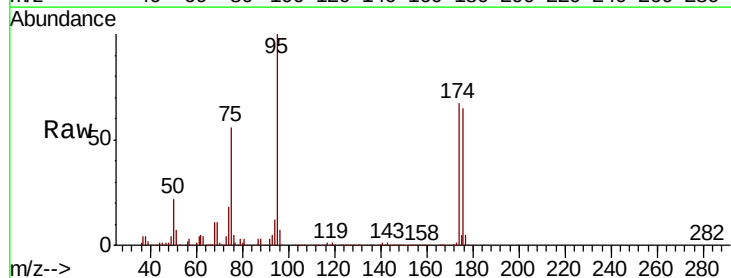
Tgt Ion: 95 Resp: 2356855

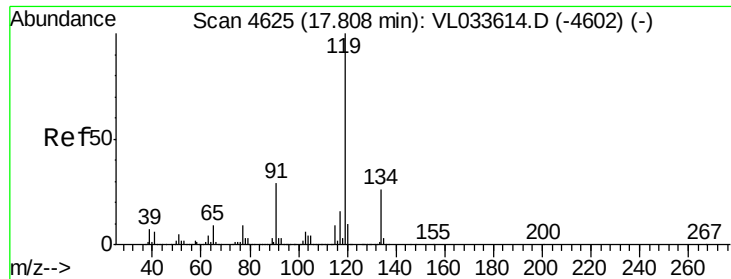
Ion Ratio Lower Upper

95 100

174 67.6 53.9 80.9

175 5.0 4.0 6.0

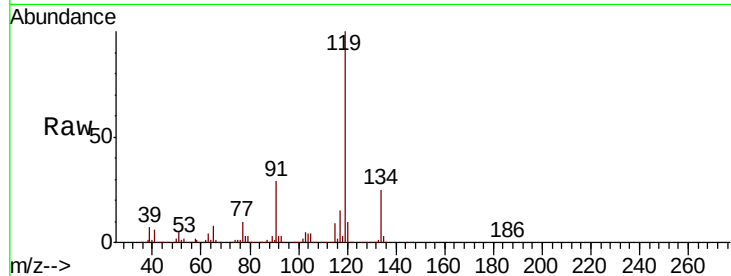




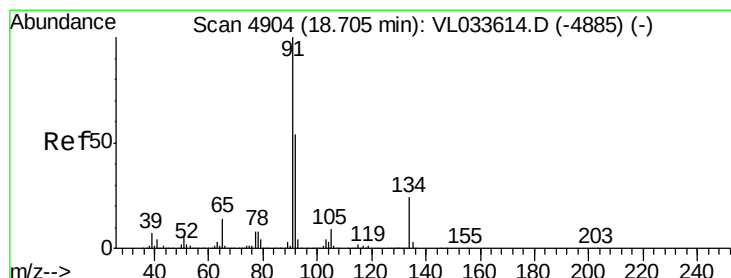
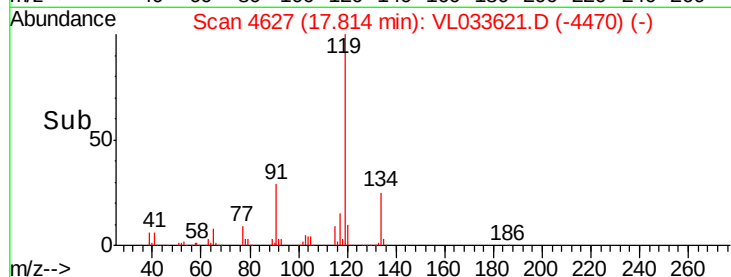
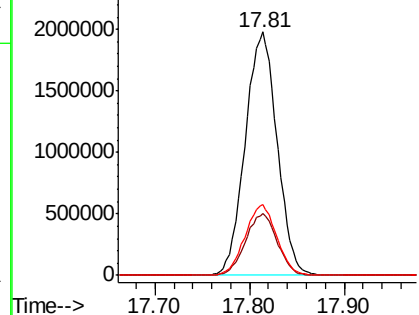
#69  
 p-Isopropyltoluene  
 Concen: 8.759 ppbv  
 RT: 17.81 min Scan# 4627  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

Tgt Ion: 119 Resp: 4620128  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 20.2 30.2  
 91 28.9 23.3 34.9

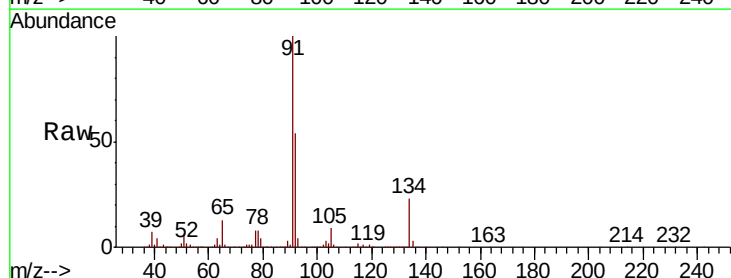


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

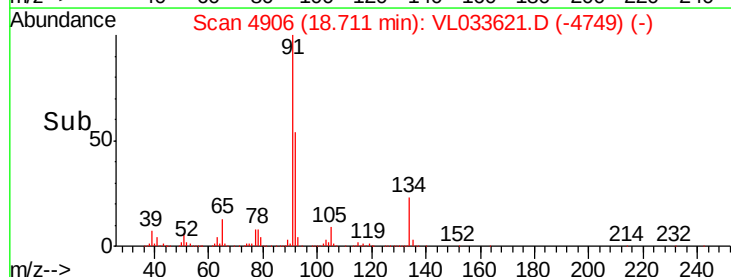
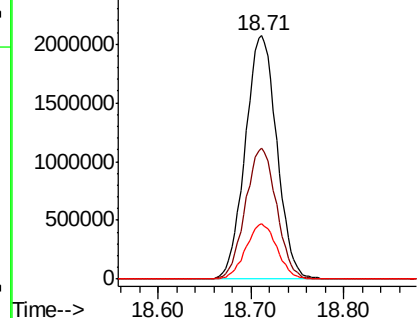


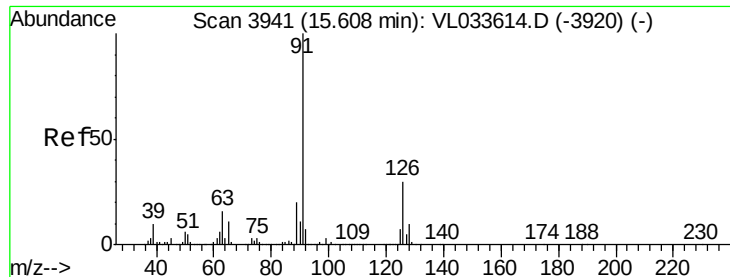
#70  
 n-Butylbenzene  
 Concen: 8.505 ppbv  
 RT: 18.71 min Scan# 4906  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion: 91 Resp: 4882228  
 Ion Ratio Lower Upper  
 91 100  
 92 53.4 42.6 64.0  
 134 22.5 18.0 27.0



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





#71

2-Chlorotoluene

Concen: 8.984 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

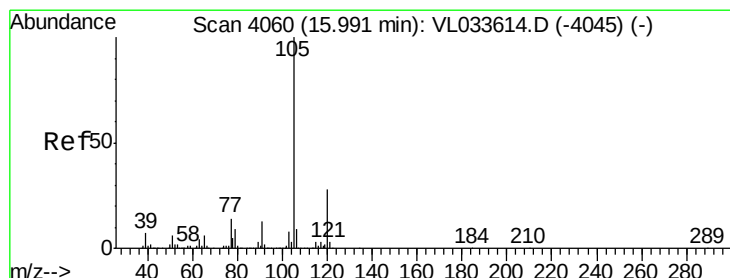
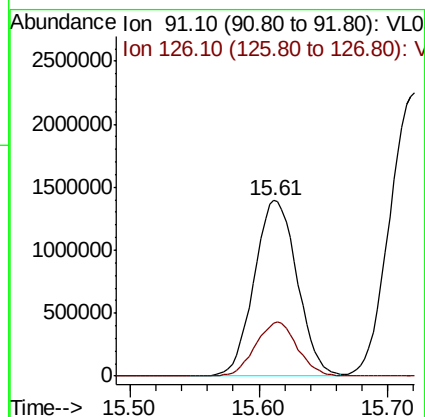
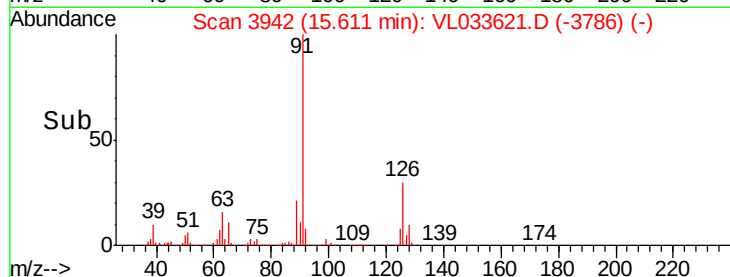
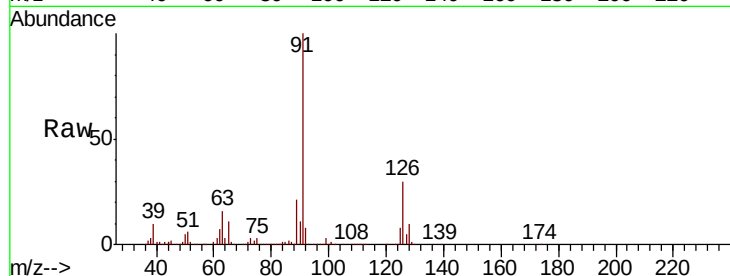
ICVVL050119

Tgt Ion: 91 Resp: 3243551

Ion Ratio Lower Upper

91 100

126 30.0 11.9 47.7



#72

4-Ethyltoluene

Concen: 9.180 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Tgt Ion:105 Resp: 3776987

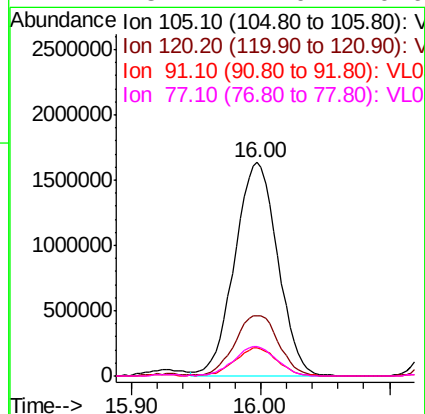
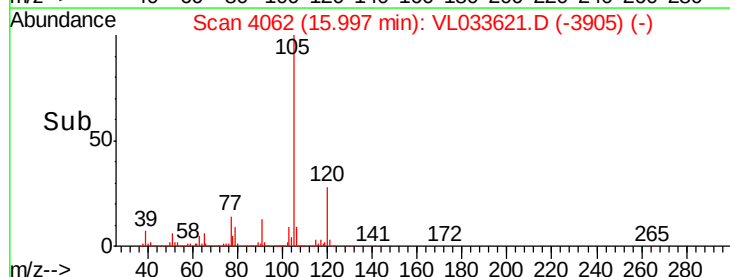
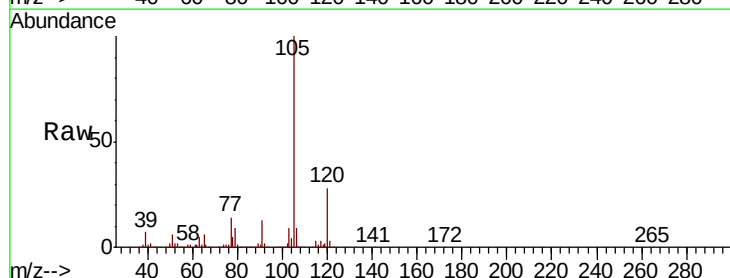
Ion Ratio Lower Upper

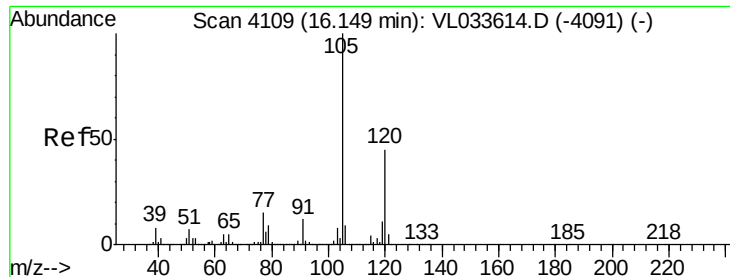
105 100

120 29.1 23.2 34.8

91 12.9 10.3 15.5

77 13.7 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 8.861 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

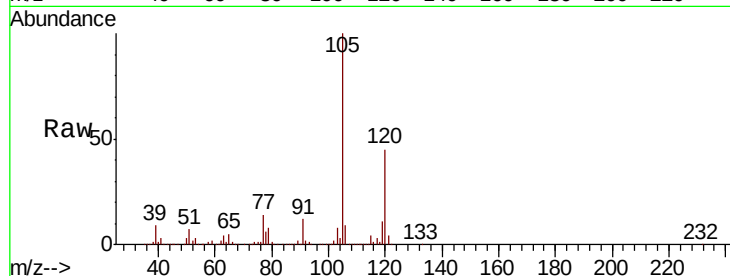
ICVVL050119

Tgt Ion:105 Resp: 3585136

Ion Ratio Lower Upper

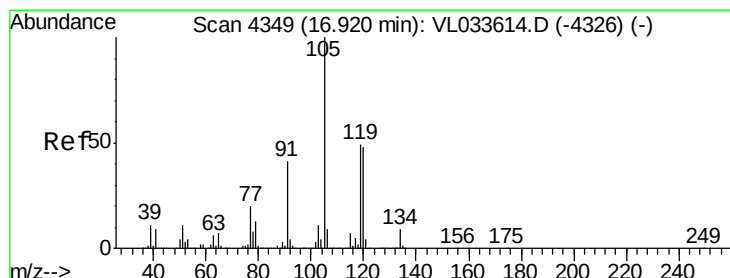
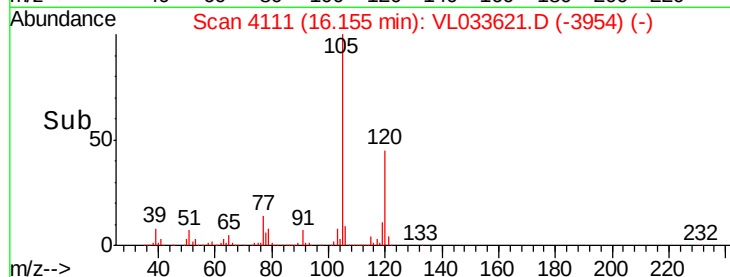
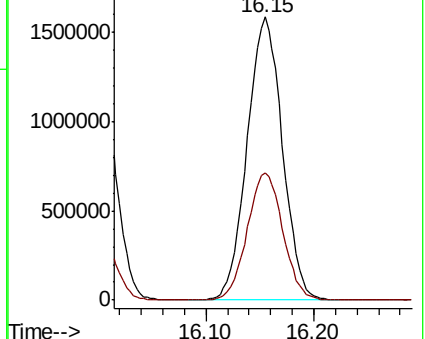
105 100

120 44.8 36.2 54.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.341 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Tgt Ion:105 Resp: 3764126

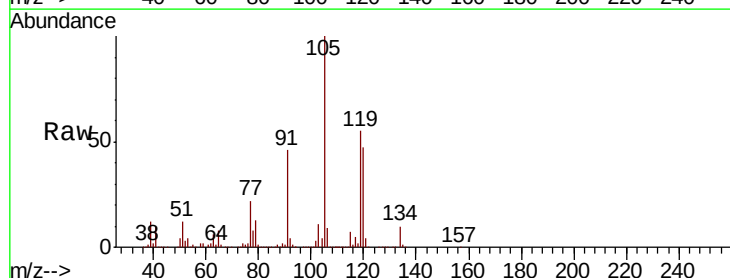
Ion Ratio Lower Upper

105 100

120 46.8 38.4 57.6

91 46.0 33.0 49.4

77 21.6 16.2 24.2

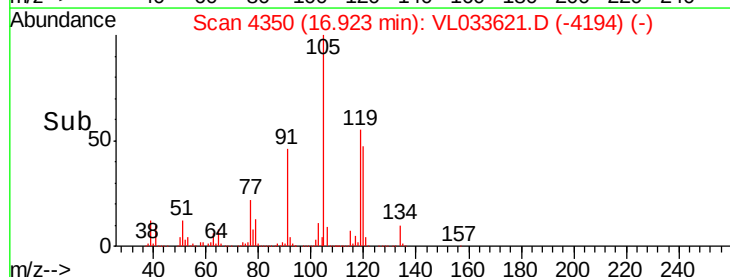
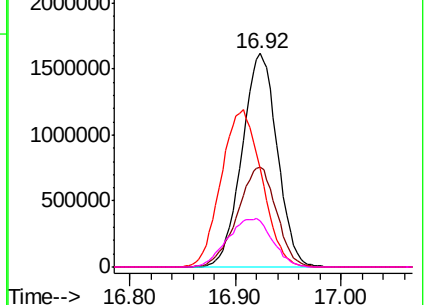


Abundance Ion 105.10 (104.80 to 105.80): V

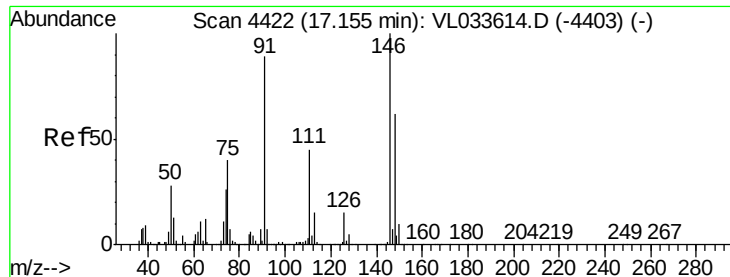
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#75

1,3-Dichlorobenzene

Concen: 7.876 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

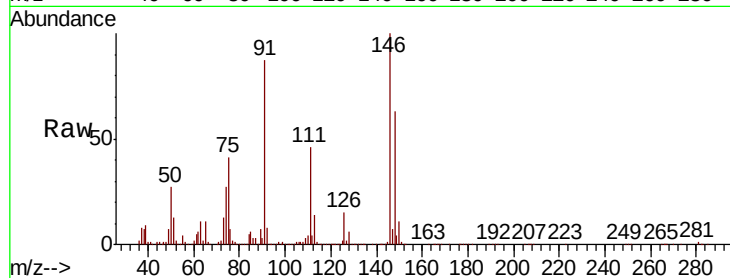
Tgt Ion:146 Resp: 2212659

Ion Ratio Lower Upper

146 100

111 44.8 22.4 67.2

148 63.9 32.0 96.0

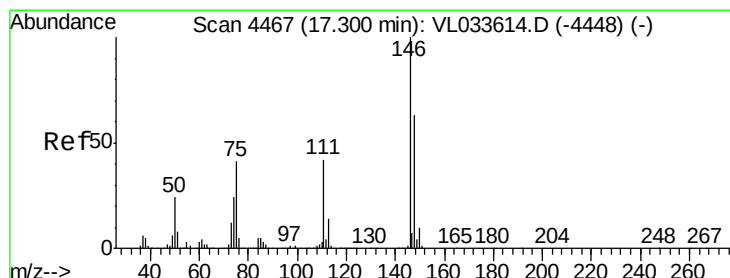
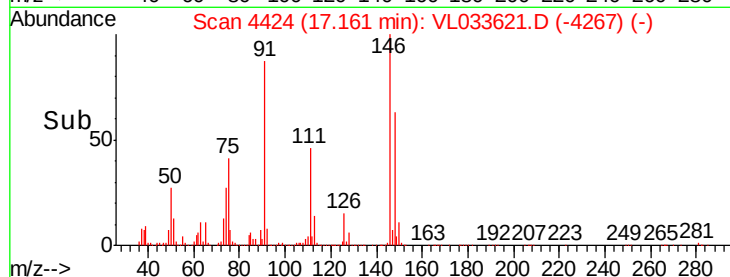
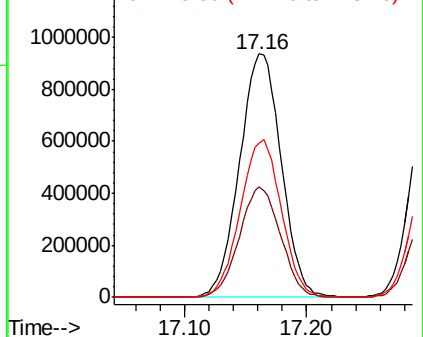


Abundance

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: 8.266 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

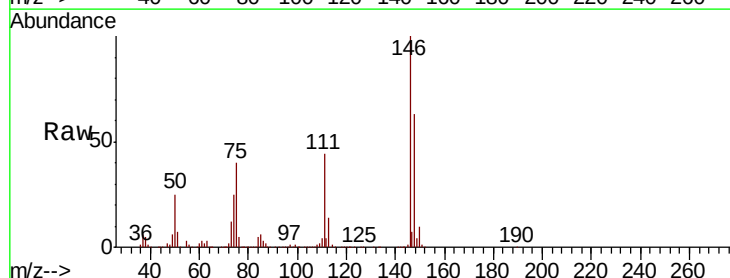
Tgt Ion:146 Resp: 2214141

Ion Ratio Lower Upper

146 100

111 44.4 21.6 65.0

148 64.6 32.3 96.9

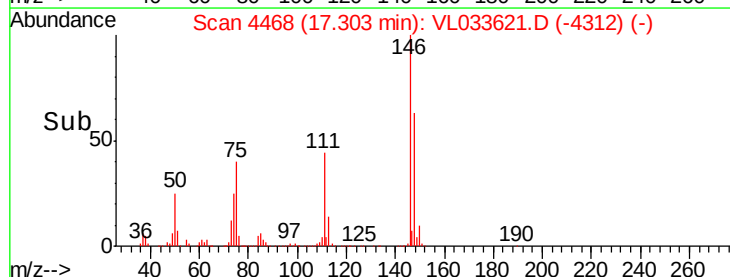
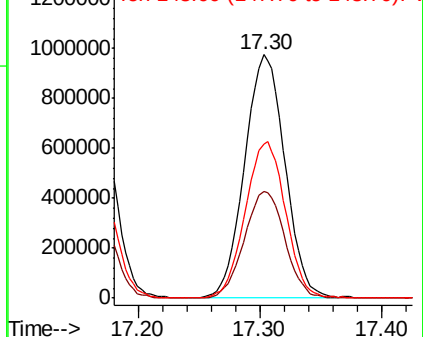


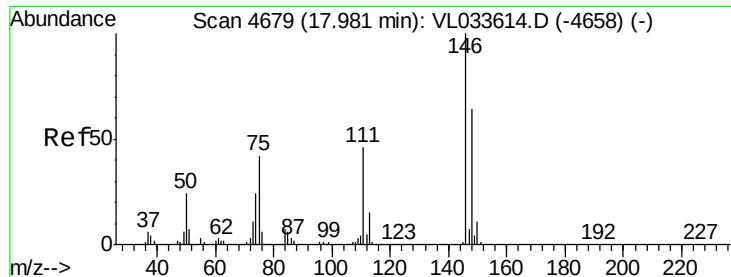
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

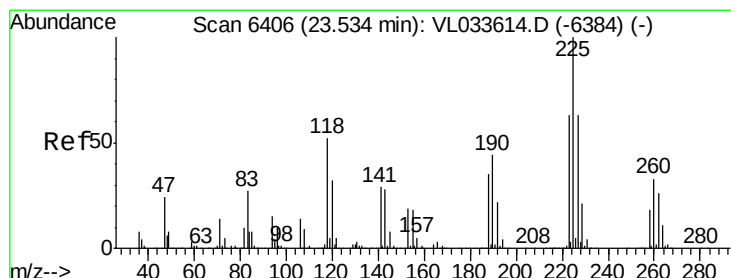
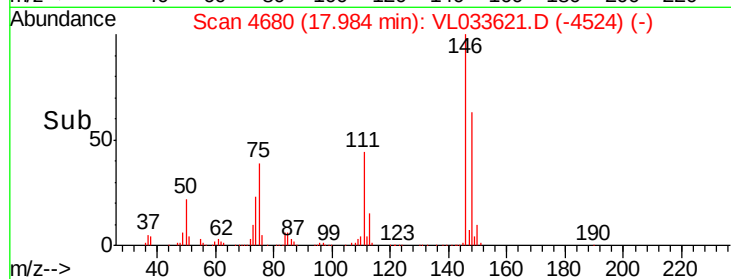
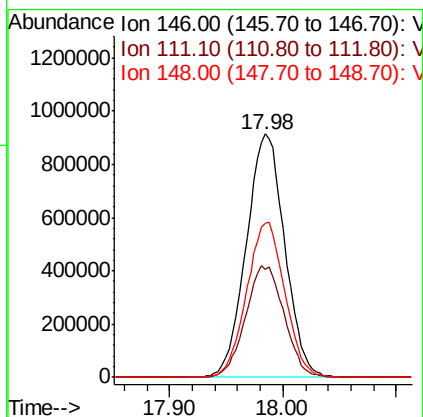
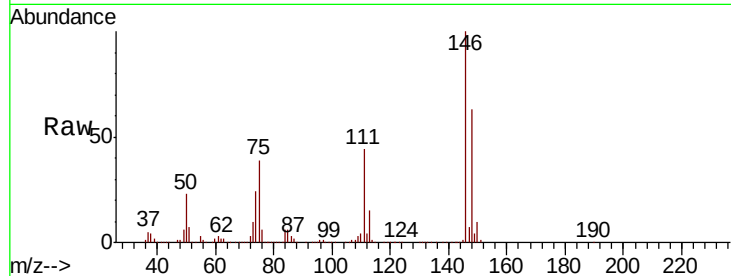




#77  
 1,2-Dichlorobenzene  
 Concen: 8.257 ppbv  
 RT: 17.98 min Scan# 4680  
 Delta R.T. 0.00 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

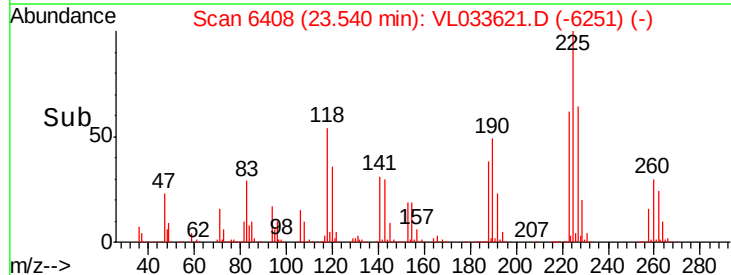
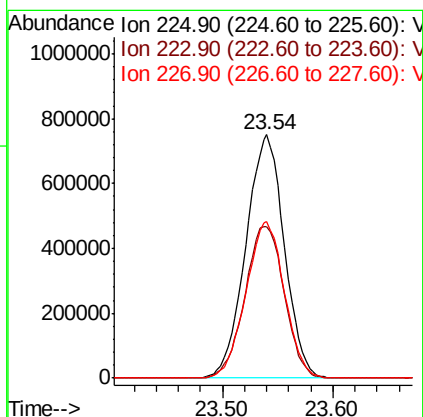
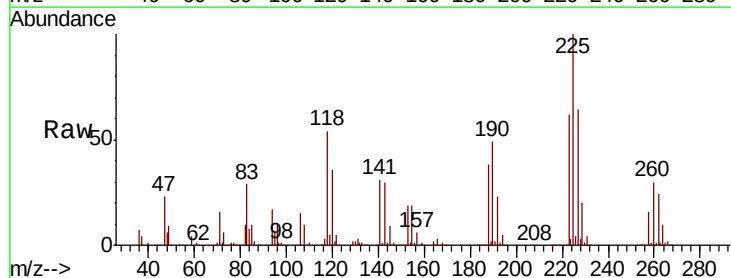
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

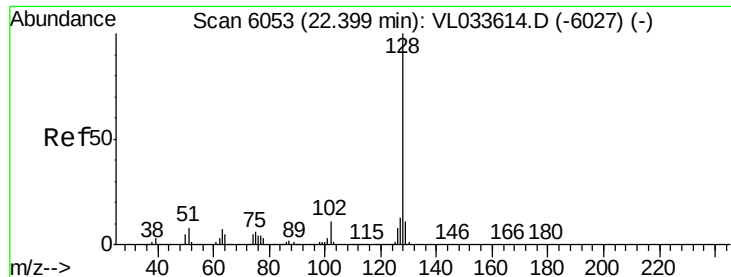
Tgt Ion:146 Resp: 2157825  
 Ion Ratio Lower Upper  
 146 100  
 111 46.3 23.3 69.9  
 148 63.5 32.2 96.6



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 9.045 ppbv  
 RT: 23.54 min Scan# 6408  
 Delta R.T. 0.01 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Tgt Ion:225 Resp: 1807390  
 Ion Ratio Lower Upper  
 225 100  
 223 64.1 50.4 75.6  
 227 64.5 50.7 76.1





#79

Naphthalene

Concen: 9.508 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL050119

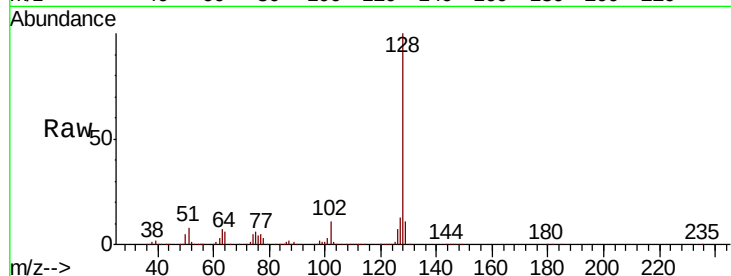
Tgt Ion:128 Resp: 3957143

Ion Ratio Lower Upper

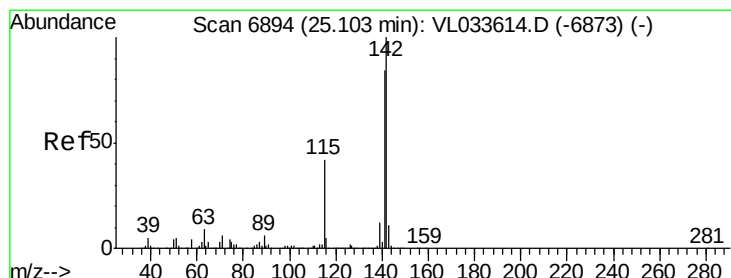
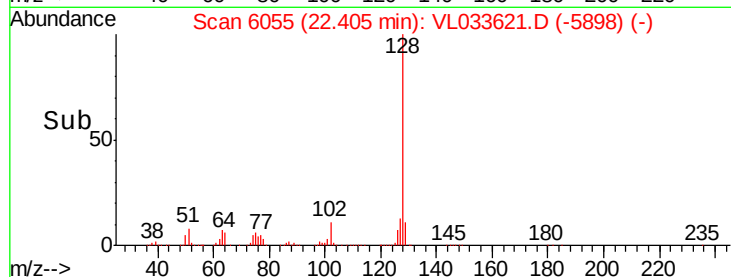
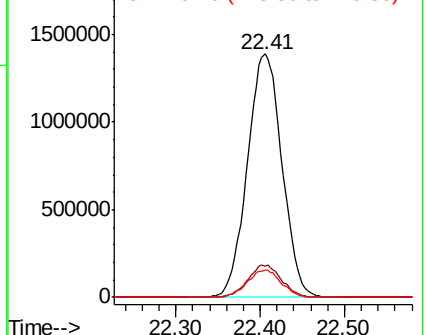
128 100

127 12.7 10.6 16.0

129 11.1 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.639 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. 0.00 min

Lab File: VL033621.D

Acq: 1 May 2019 17:26

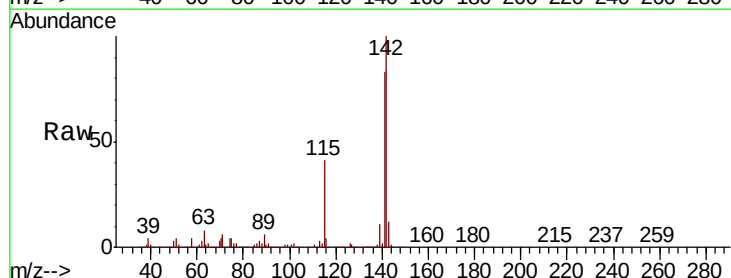
Tgt Ion:142 Resp: 1919503

Ion Ratio Lower Upper

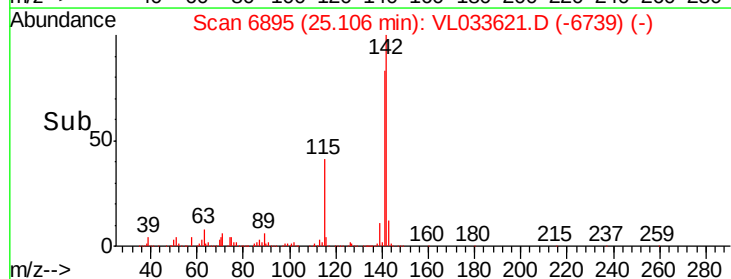
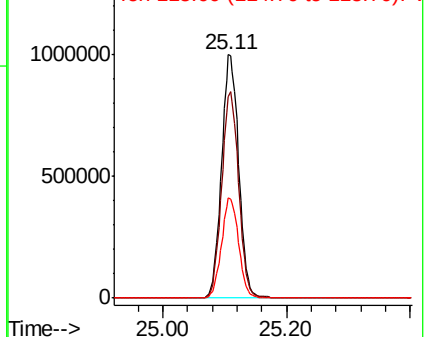
142 100

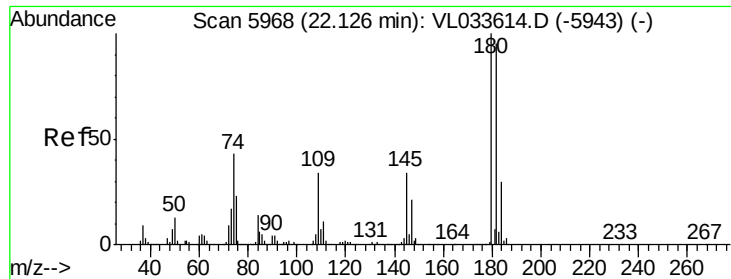
141 84.0 67.3 100.9

115 41.1 33.8 50.8



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: 8.804 ppbv  
 RT: 22.13 min Scan# 5969  
 Delta R.T. 0.00 min  
 Lab File: VL033621.D  
 Acq: 1 May 2019 17:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050119

Tgt Ion:180 Resp: 2124690  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.2 114.2  
 184 30.6 24.5 36.7

