

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100719\  
 Data File : VL034249.D  
 Acq On : 8 Oct 2019 11:51  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Oct 09 02:25:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 18 12:53:31 2019  
 QLast Update : Wed Sep 18 12:53:31 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 931773   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.22  | 114  | 1593040  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.15 | 117  | 1804136  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.49  | 95    | 1474034  | 9.40     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 94.00% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 1815678 | 13.192 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 1205092 | 11.030 | ppbv   | 100    |
| 4) Chloromethane               | 3.12 | 50  | 724605  | 11.286 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.24 | 62  | 655996  | 11.181 | ppbv   | 98     |
| 6) Bromomethane                | 3.46 | 94  | 313909  | 11.467 | ppbv   | 96     |
| 7) Chloroethane                | 3.55 | 64  | 235779  | 11.497 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 1379991 | 11.360 | ppbv   | 100    |
| 9) Propene                     | 2.99 | 41  | 591417  | 10.972 | ppbv   | 99     |
| 10) Heptane                    | 8.17 | 43  | 1548285 | 11.022 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 1455228 | 11.616 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 965406  | 11.775 | ppbv   | 100    |
| 13) Ethanol                    | 3.59 | 45  | 114104  | 8.742  | ppbv   | 98     |
| 14) Bromoethene                | 3.73 | 108 | 402632  | 12.011 | ppbv   | 100    |
| 15) Acetone                    | 3.84 | 43  | 1231360 | 9.860  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.31 | 39  | 638014  | 11.707 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 842506  | 10.647 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 448636  | 12.546 | ppbv   | 92     |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 735751  | 9.581  | ppbv # | 98     |
| 20) Methylene Chloride         | 4.35 | 84  | 404530  | 11.235 | ppbv   | 97     |
| 21) Allyl Chloride             | 4.41 | 41  | 855219  | 12.124 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 448370  | 12.532 | ppbv   | 97     |
| 23) Vinyl Acetate              | 5.09 | 43  | 2045443 | 11.115 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 1383040 | 11.161 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.70 | 43  | 2554565 | 10.817 | ppbv   | 100    |
| 26) Hexane                     | 5.71 | 57  | 1094523 | 11.142 | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1135812 | 12.537 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1695384 | 11.620 | ppbv   | 99     |
| 29) Chloroform                 | 5.78 | 83  | 1604914 | 11.433 | ppbv   | 100    |
| 30) Cyclohexane                | 7.17 | 84  | 794698  | 11.205 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61  | 1153408 | 11.518 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.55 | 97  | 1526860 | 11.278 | ppbv   | 100    |
| 34) 2-Butanone                 | 5.26 | 43  | 1742444 | 10.712 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.06 | 117 | 1528201 | 11.547 | ppbv   | 99     |
| 36) Benzene                    | 6.93 | 78  | 1934899 | 10.997 | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.34 | 62  | 1445515 | 11.551 | ppbv   | 99     |
| 38) Trichloroethene            | 7.88 | 130 | 652718  | 10.383 | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.66 | 63  | 858737  | 10.863 | ppbv   | 97     |
| 40) 1,4-Dioxane                | 7.87 | 88  | 265691  | 10.386 | ppbv # | 92     |
| 41) Tetrahydrofuran            | 6.07 | 42  | 1025618 | 11.195 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.84 | 83  | 1749405 | 11.648 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.06 | 69  | 856799  | 11.789 | ppbv   | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL100719\  
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 Acq On : 8 Oct 2019 11:51  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

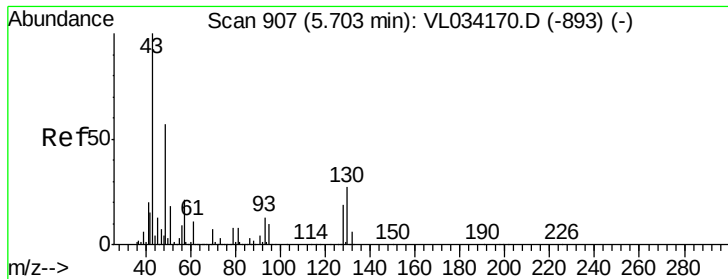
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Oct 09 02:25:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 18 12:53:31 2019  
 QLast Update : Wed Sep 18 12:53:31 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.91  | 57   | 3618556  | 10.683 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.34  | 75   | 1109343  | 12.909 | ppbv   | 96       |
| 46) cis-1,3-Dichloropropene   | 8.76  | 75   | 1265130  | 12.238 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.54  | 97   | 788166   | 11.103 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.37 | 129  | 1304441  | 11.594 | ppbv   | 100      |
| 49) Bromoform                 | 13.12 | 173  | 1080849  | 11.871 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.79  | 43   | 2568485  | 10.850 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.19 | 43   | 2163274  | 10.889 | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.29 | 164  | 596297   | 10.258 | ppbv   | 97       |
| 53) Toluene                   | 9.86  | 91   | 2143119  | 11.145 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.68 | 107  | 1169163  | 11.075 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.19 | 131  | 860310   | 10.693 | ppbv   | 98       |
| 57) Chlorobenzene             | 12.21 | 112  | 1554261  | 9.895  | ppbv # | 95       |
| 58) Ethyl Benzene             | 12.78 | 91   | 2950761  | 10.136 | ppbv   | 98       |
| 59) m/p-Xylene                | 13.06 | 91   | 2611687  | 10.832 | ppbv # | 46       |
| 60) o-Xylene                  | 13.77 | 91   | 2451472  | 10.168 | ppbv   | 98       |
| 61) Styrene                   | 13.60 | 104  | 1774467  | 10.275 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.74 | 105  | 3122062  | 10.003 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.75 | 83   | 1762467  | 8.915  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.64 | 120  | 793849   | 10.054 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 16.82 | 119  | 2668606  | 9.786  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.07 | 91   | 1220289  | 12.648 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.37 | 105  | 3850511  | 9.874  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.73 | 119  | 3109463  | 9.847  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.63 | 91   | 3580673  | 9.739  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.53 | 91   | 2543269  | 9.973  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.92 | 105  | 2748812  | 10.091 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.08 | 105  | 2637280  | 10.022 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.84 | 105  | 2673619  | 9.569  | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 17.08 | 146  | 1420999  | 9.479  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.22 | 146  | 1457541  | 9.494  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.91 | 146  | 1393950  | 9.187  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.46 | 225  | 1082998  | 10.776 | ppbv   | 98       |
| 79) Naphthalene               | 22.31 | 128  | 2321647  | 9.438  | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.04 | 142  | 939306   | 8.211  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.03 | 180  | 1280184  | 9.395  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

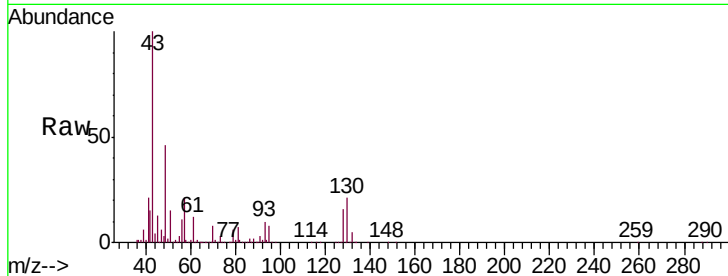
Tgt Ion: 49 Resp: 931773

Ion Ratio Lower Upper

49 100

128 33.9 17.6 52.9

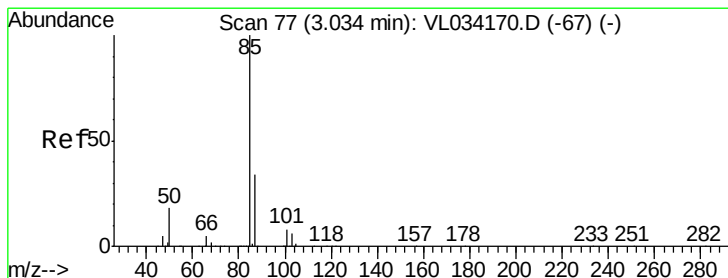
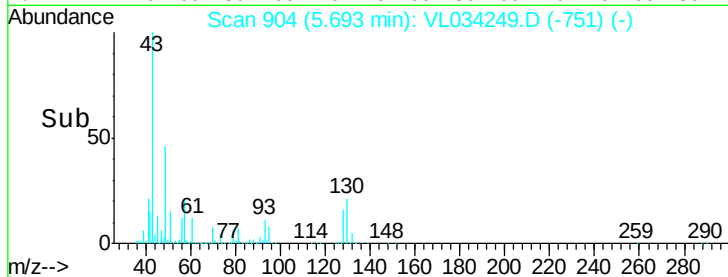
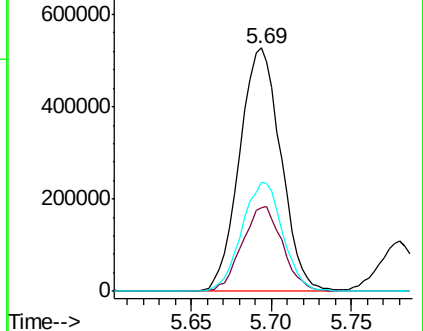
130 44.3 22.3 66.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 13.192 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034249.D

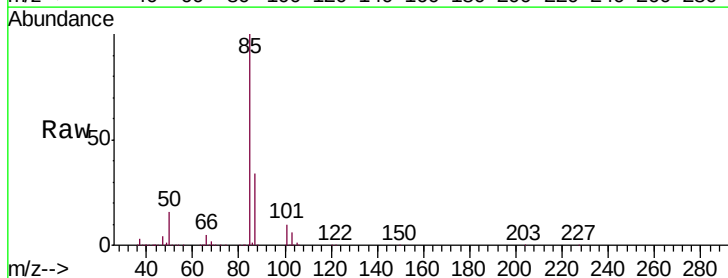
Acq: 8 Oct 2019 11:51

Tgt Ion: 85 Resp: 1815678

Ion Ratio Lower Upper

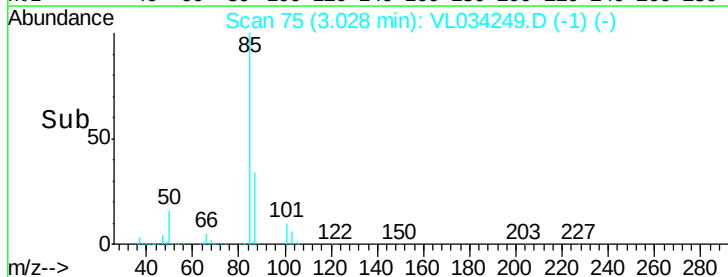
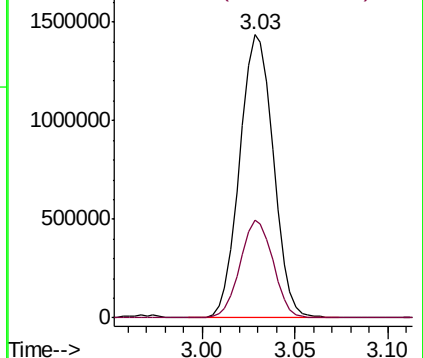
85 100

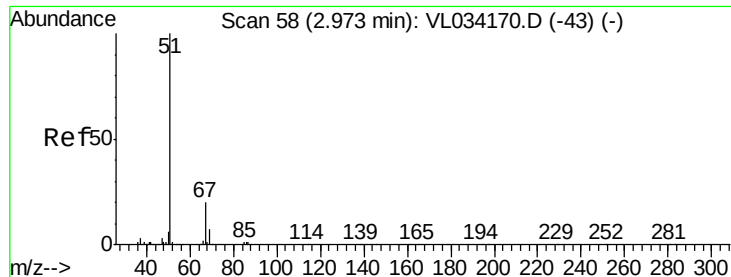
87 34.3 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

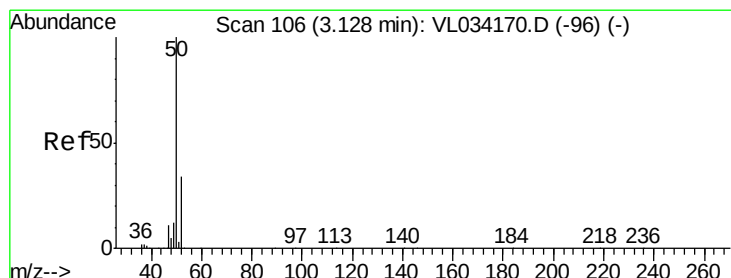
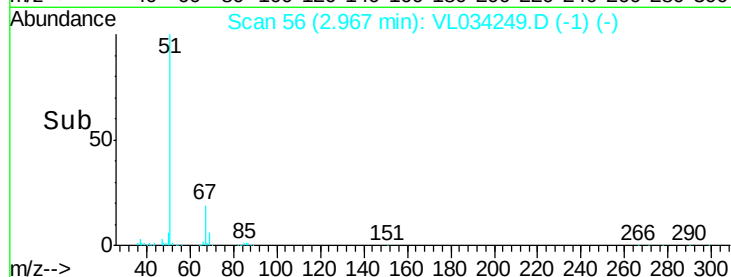
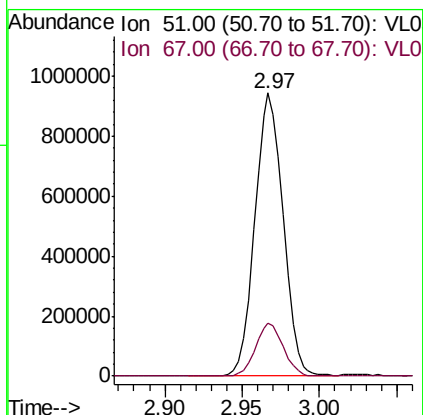
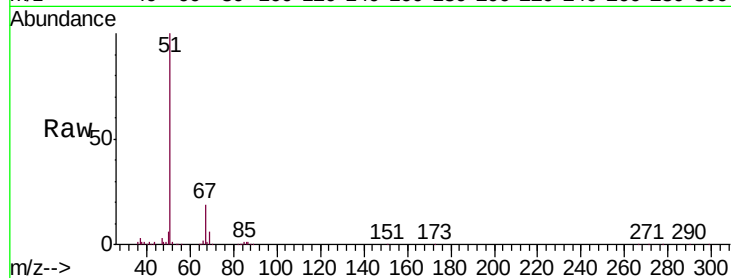




#3  
Chlorodifluoromethane  
Concen: 11.030 ppbv  
RT: 2.97 min Scan# 56  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

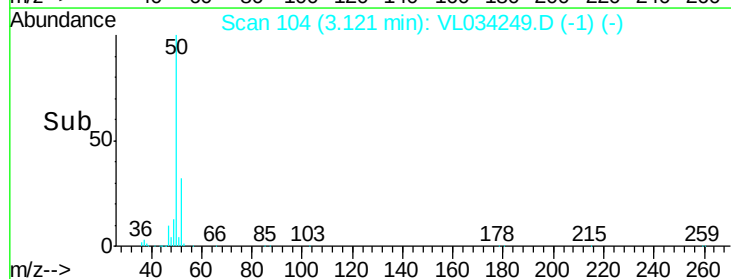
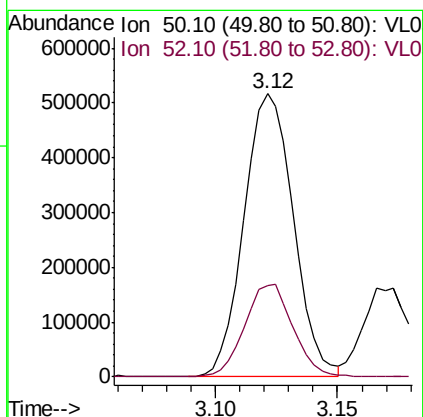
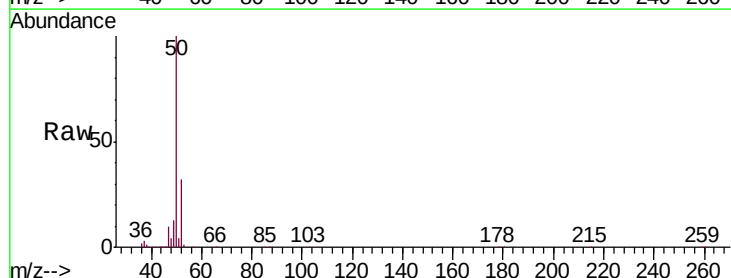
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

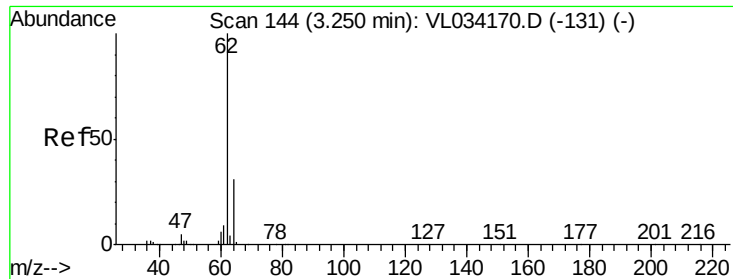
Tgt Ion: 51 Resp: 1205092  
Ion Ratio Lower Upper  
51 100  
67 18.4 14.8 22.2



#4  
Chloromethane  
Concen: 11.286 ppbv  
RT: 3.12 min Scan# 104  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 50 Resp: 724605  
Ion Ratio Lower Upper  
50 100  
52 32.3 27.1 40.7





#5

Vinyl Chloride

Concen: 11.181 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

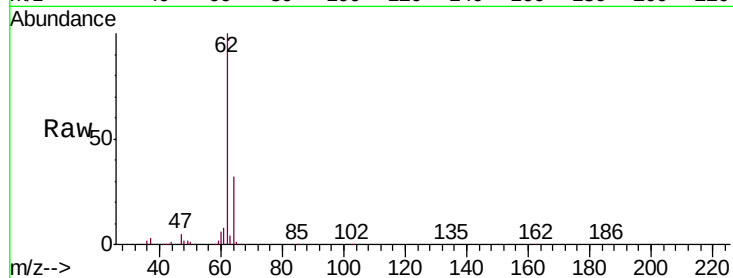
VSTDCCC010EC

Tgt Ion: 62 Resp: 655996

Ion Ratio Lower Upper

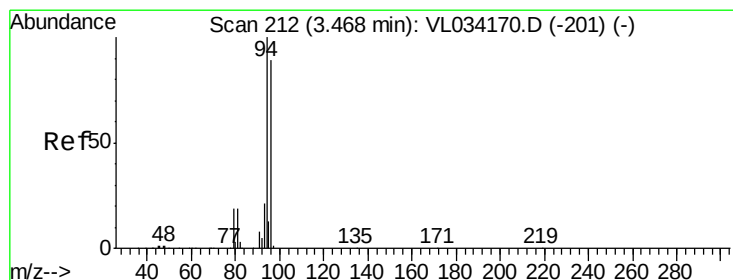
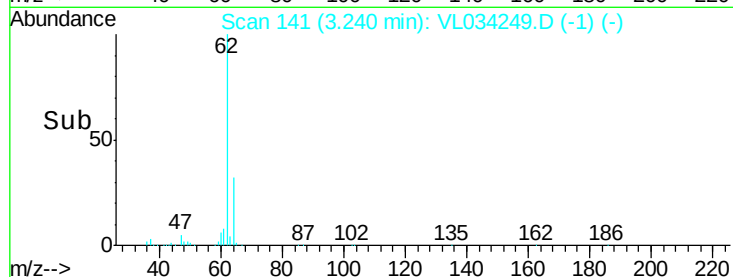
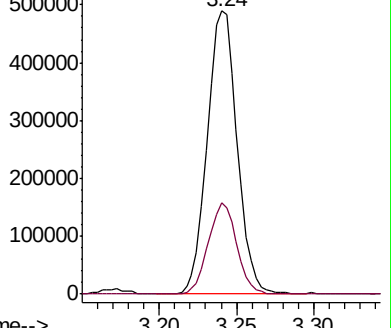
62 100

64 32.3 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 11.467 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.01 min

Lab File: VL034249.D

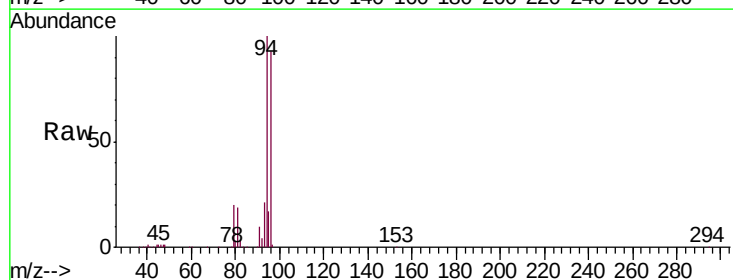
Acq: 8 Oct 2019 11:51

Tgt Ion: 94 Resp: 313909

Ion Ratio Lower Upper

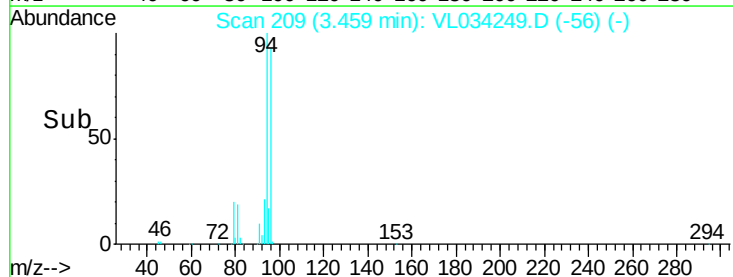
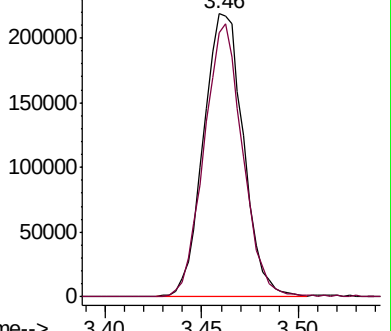
94 100

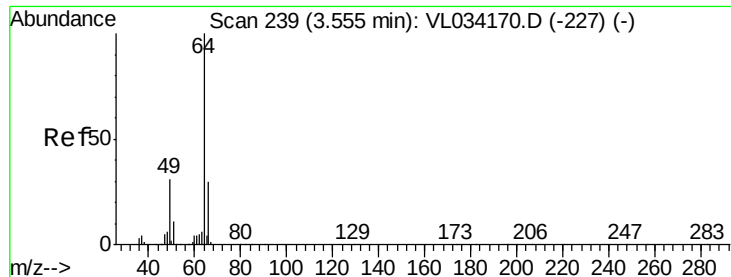
96 93.0 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.497 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

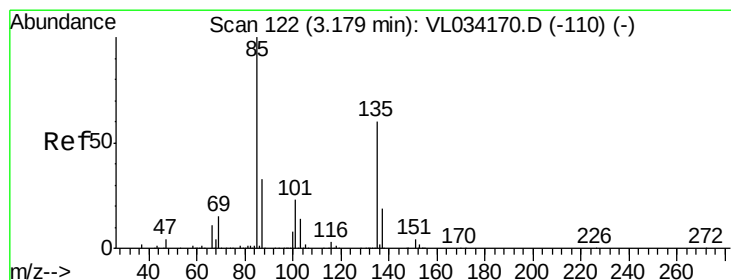
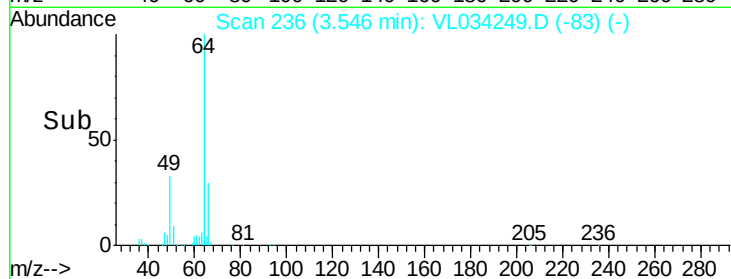
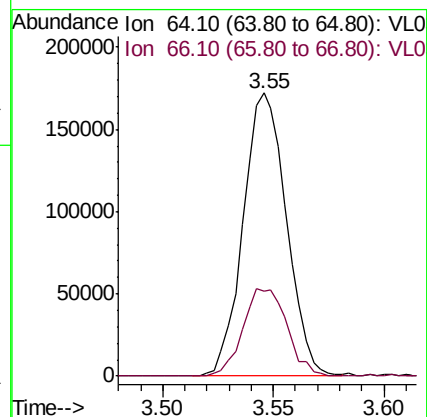
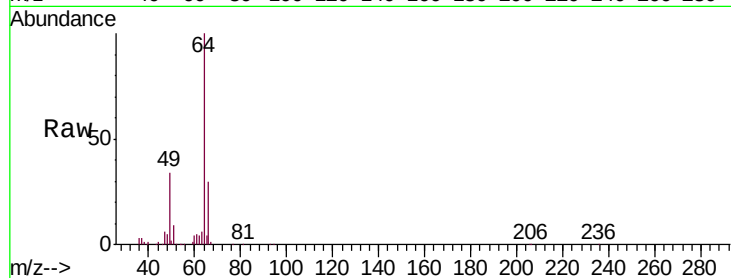
VSTDCCC010EC

Tgt Ion: 64 Resp: 235779

Ion Ratio Lower Upper

64 100

66 30.2 24.2 36.4



#8

Dichlorotetrafluoroethane

Concen: 11.360 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL034249.D

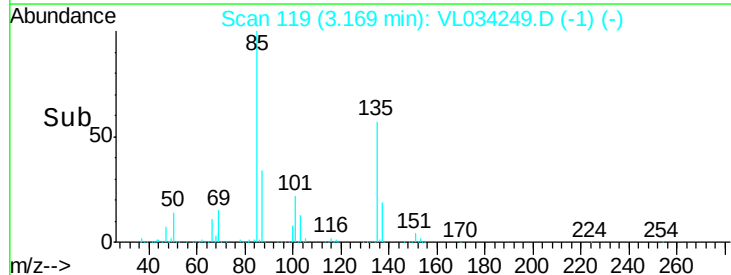
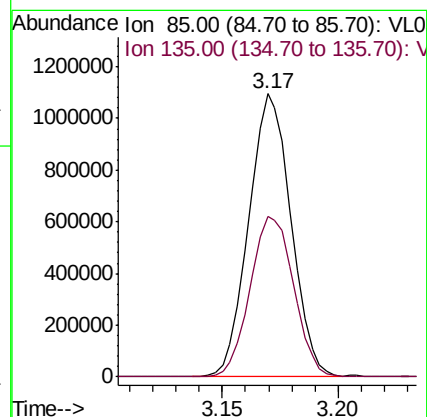
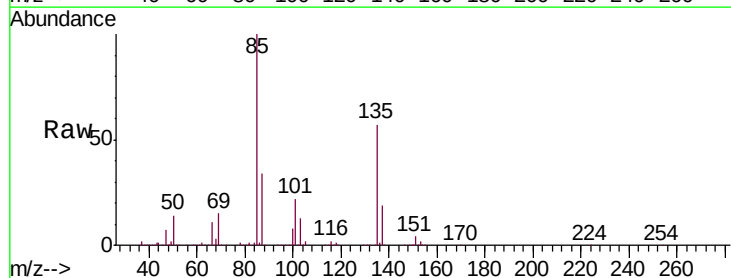
Acq: 8 Oct 2019 11:51

Tgt Ion: 85 Resp: 1379991

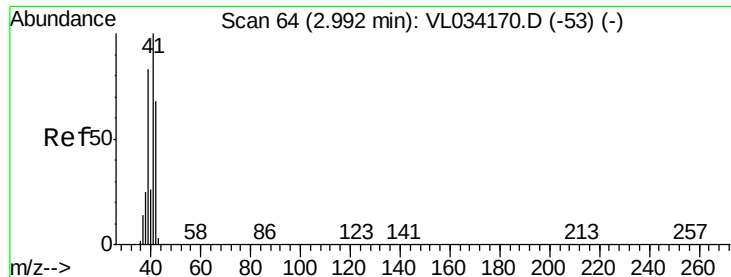
Ion Ratio Lower Upper

85 100

135 58.9 47.3 70.9







#9

Propene

Concen: 10.972 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

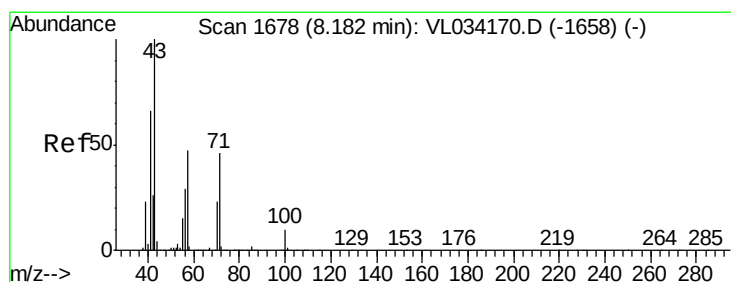
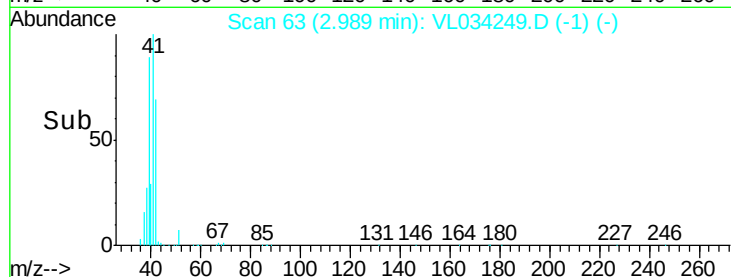
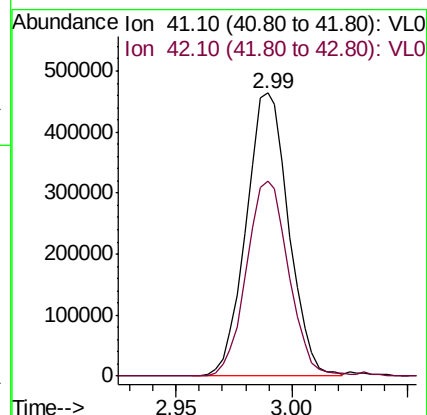
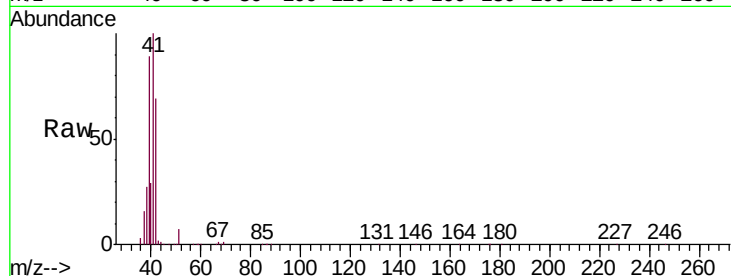
VSTDCCC010EC

Tgt Ion: 41 Resp: 591417

Ion Ratio Lower Upper

41 100

42 69.3 55.8 83.6



#10

Heptane

Concen: 11.022 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034249.D

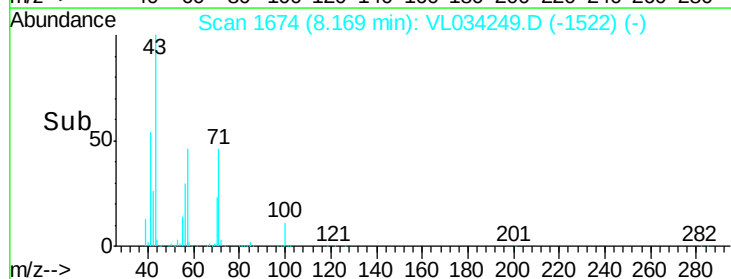
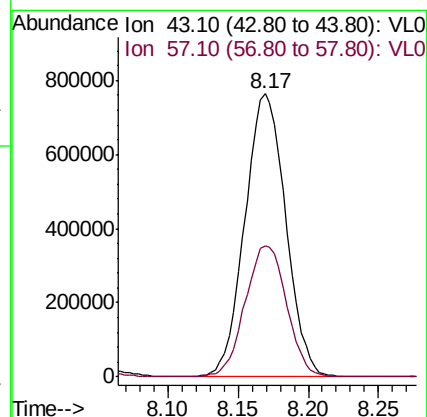
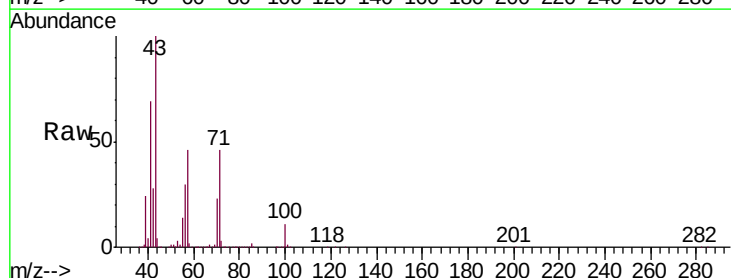
Acq: 8 Oct 2019 11:51

Tgt Ion: 43 Resp: 1548285

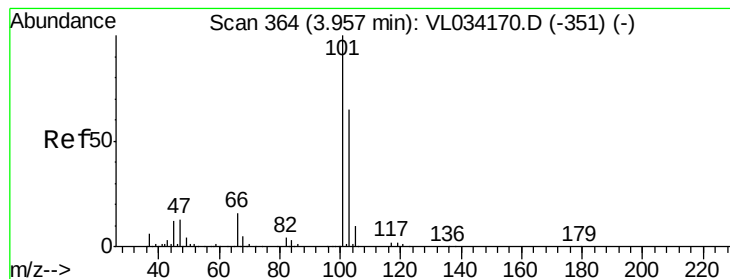
Ion Ratio Lower Upper

43 100

57 47.3 37.5 56.3







#11

Trichlorofluoromethane

Concen: 11.616 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

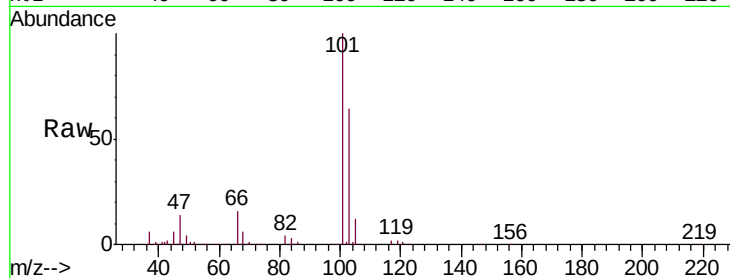
VSTDCCC010EC

Tgt Ion:101 Resp: 1455228

Ion Ratio Lower Upper

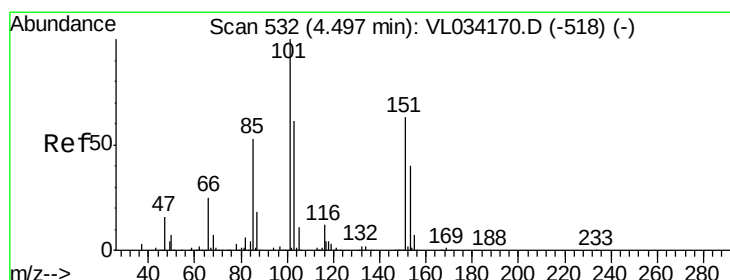
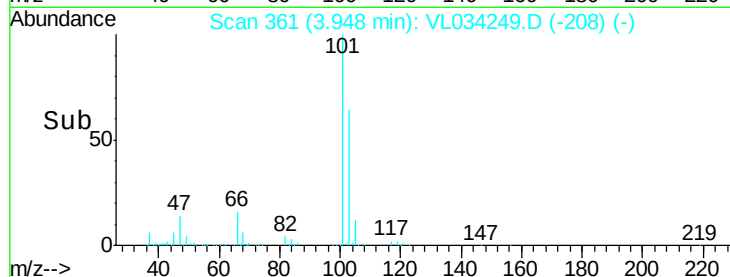
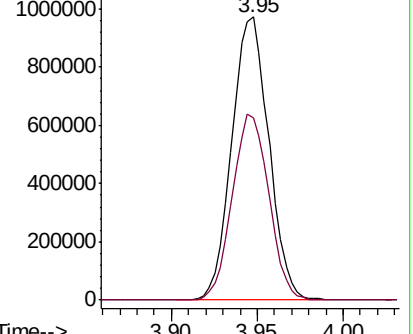
101 100

103 64.2 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.775 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.01 min

Lab File: VL034249.D

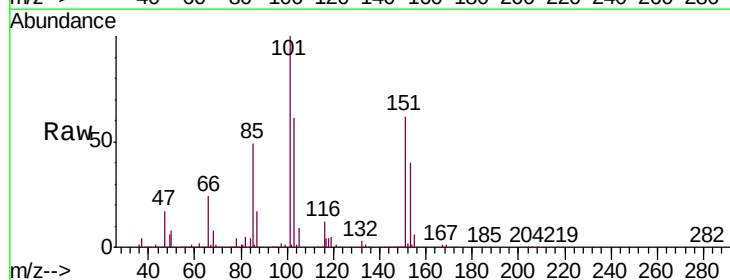
Acq: 8 Oct 2019 11:51

Tgt Ion:101 Resp: 965406

Ion Ratio Lower Upper

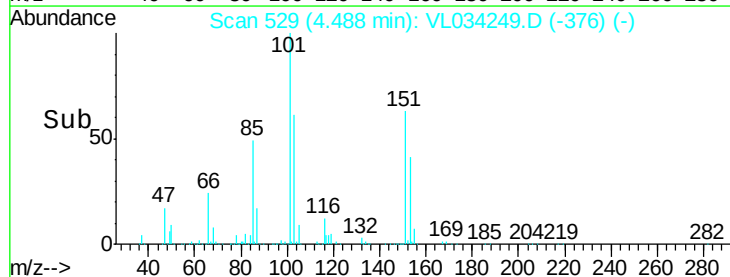
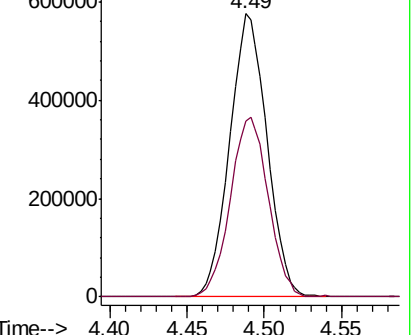
101 100

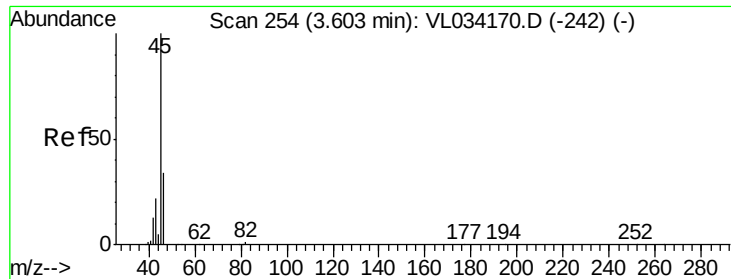
151 64.7 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

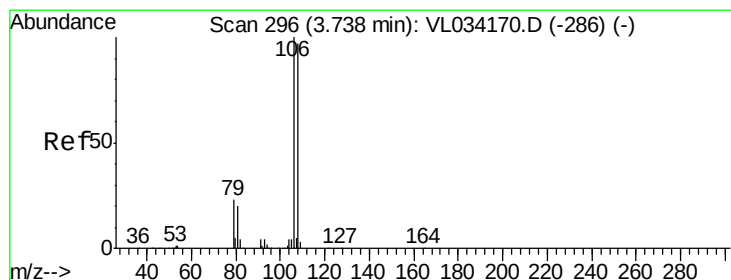
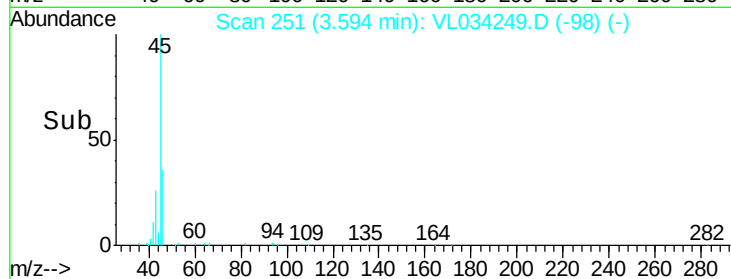
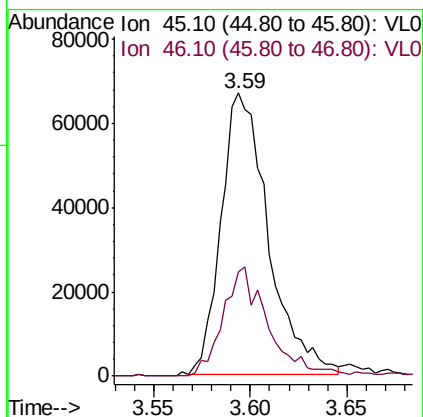
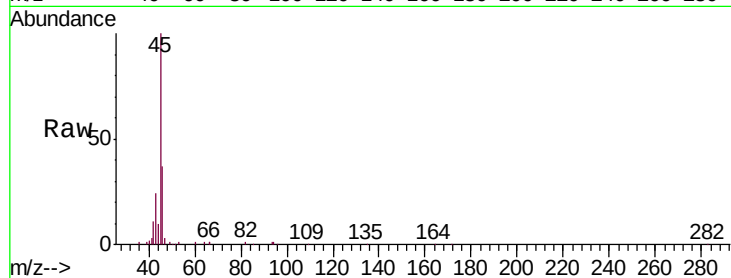




#13  
Ethanol  
Concen: 8.742 ppbv  
RT: 3.59 min Scan# 251  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

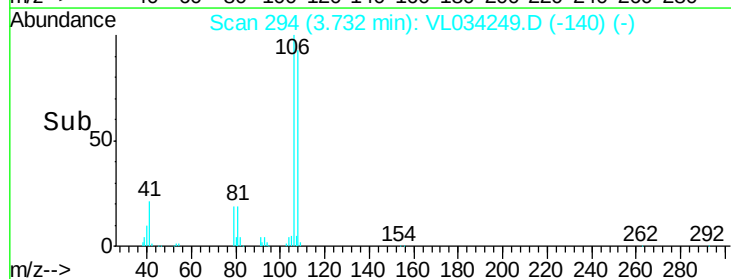
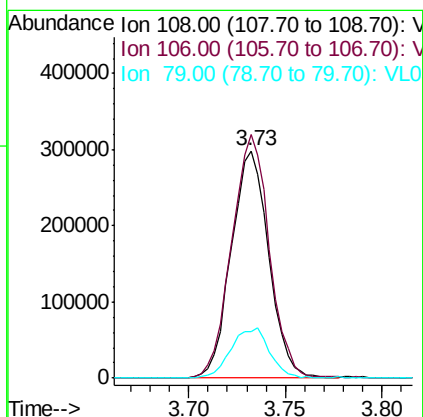
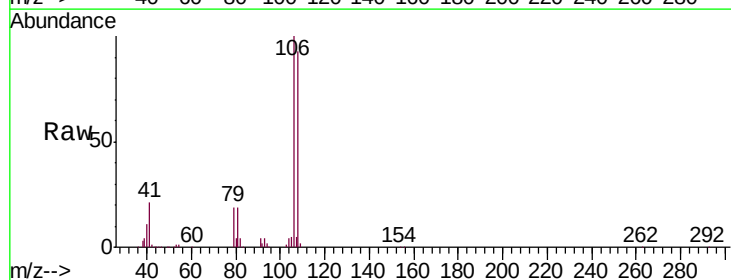
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

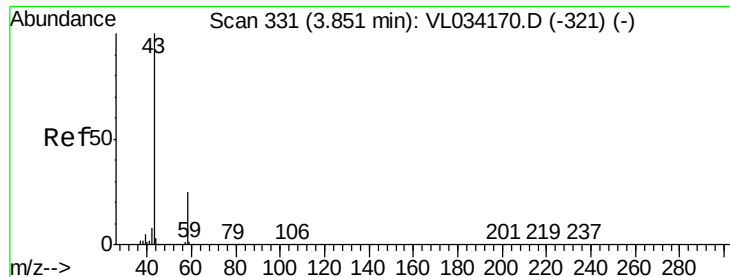
Tgt Ion: 45 Resp: 114104  
Ion Ratio Lower Upper  
45 100  
46 37.7 15.5 61.9



#14  
Bromoethene  
Concen: 12.011 ppbv  
RT: 3.73 min Scan# 294  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 108 Resp: 402632  
Ion Ratio Lower Upper  
108 100  
106 108.1 86.2 129.4  
79 23.1 18.6 27.8





#15

Acetone

Concen: 9.860 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

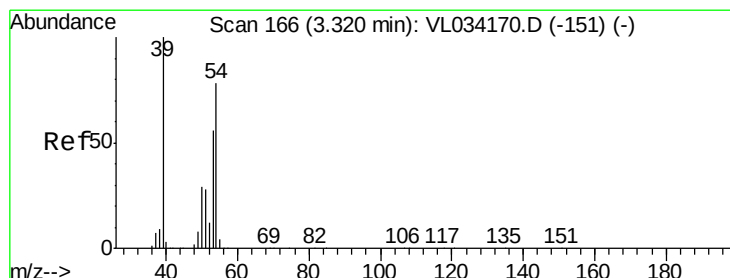
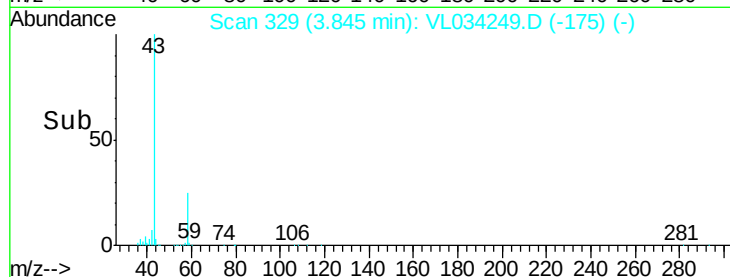
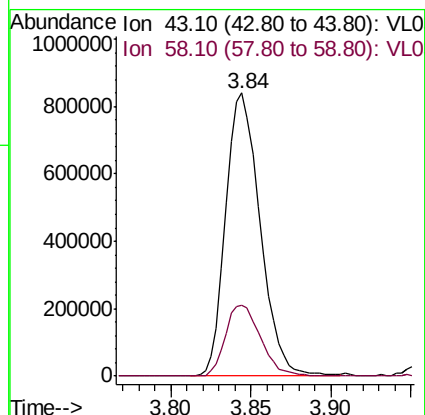
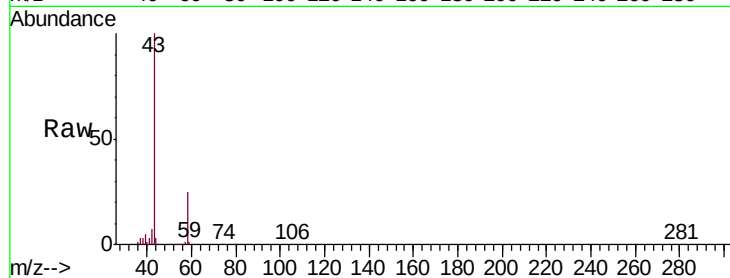
VSTDCCC010EC

Tgt Ion: 43 Resp: 1231360

Ion Ratio Lower Upper

43 100

58 25.8 20.5 30.7



#16

1,3-Butadiene

Concen: 11.707 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL034249.D

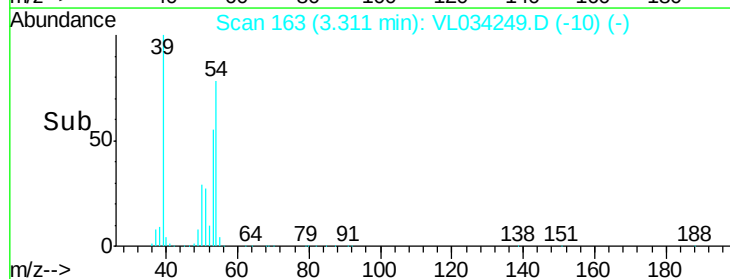
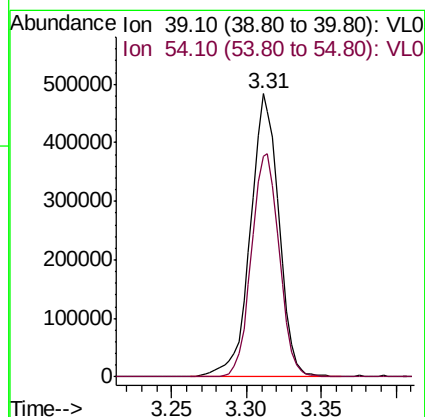
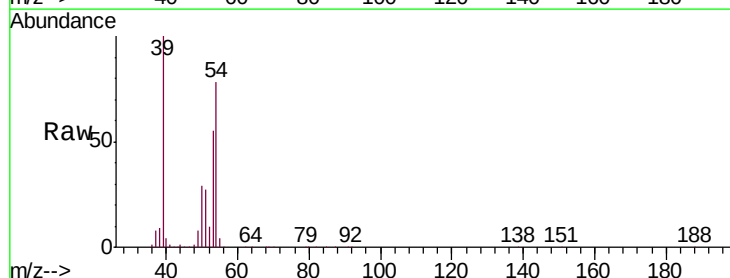
Acq: 8 Oct 2019 11:51

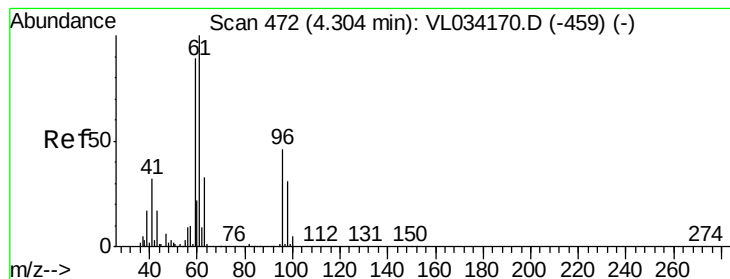
Tgt Ion: 39 Resp: 638014

Ion Ratio Lower Upper

39 100

54 77.1 63.4 95.0





#17

tert-Butyl alcohol

Concen: 10.647 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

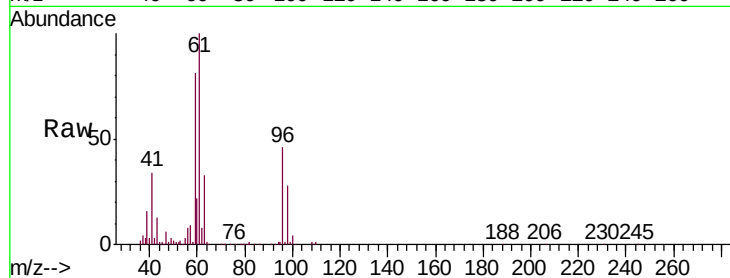
VSTDCCC010EC

Tgt Ion: 59 Resp: 842506

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

500000

400000

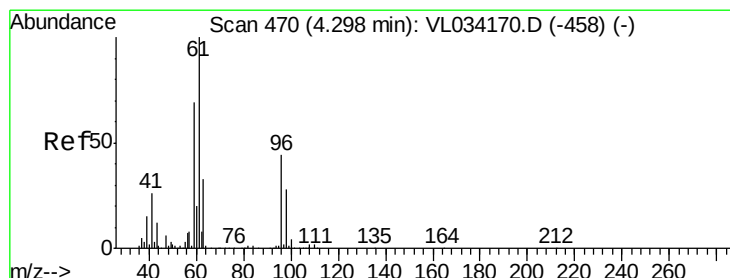
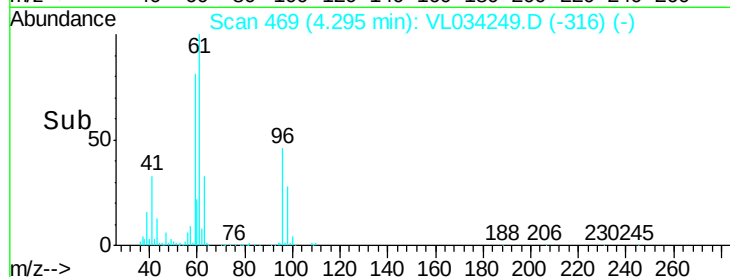
300000

200000

100000

0

Time--> 4.20 4.25 4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 12.546 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

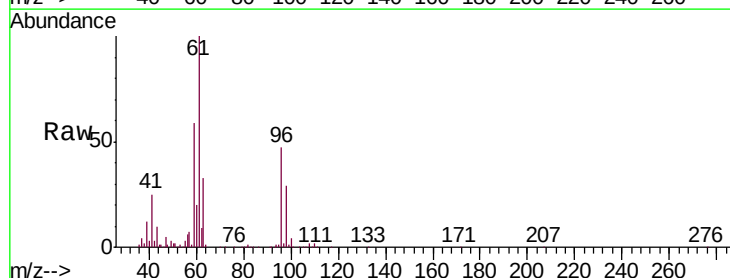
Tgt Ion: 96 Resp: 448636

Ion Ratio Lower Upper

96 100

61 214.1 183.3 274.9

98 62.8 51.4 77.2



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

800000

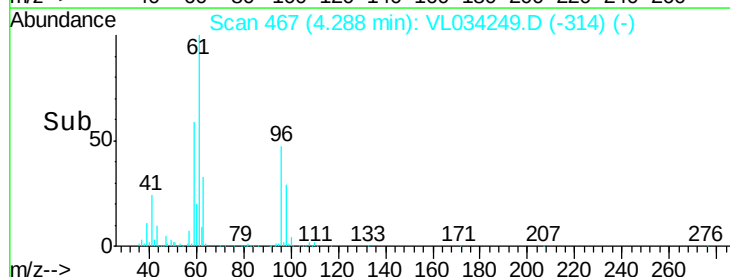
600000

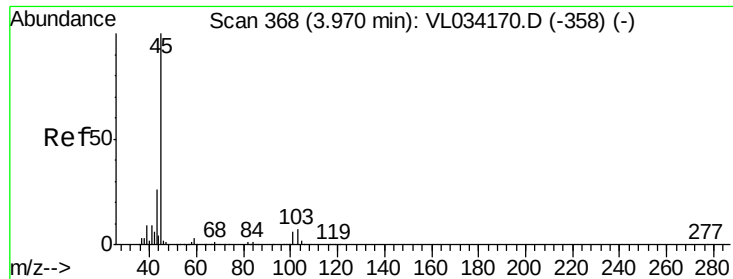
400000

200000

0

Time--> 4.25 4.30 4.35

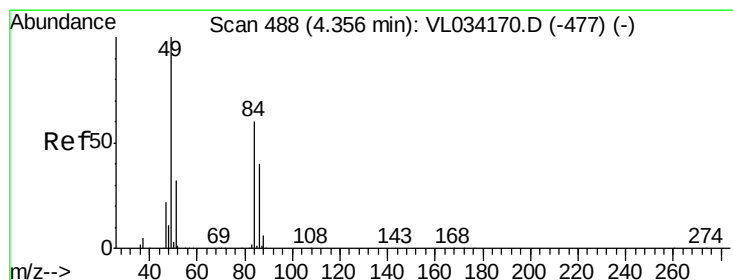
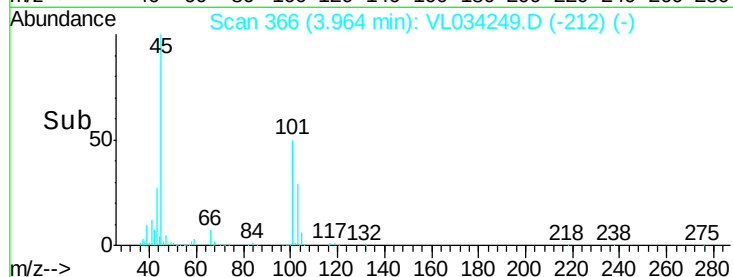
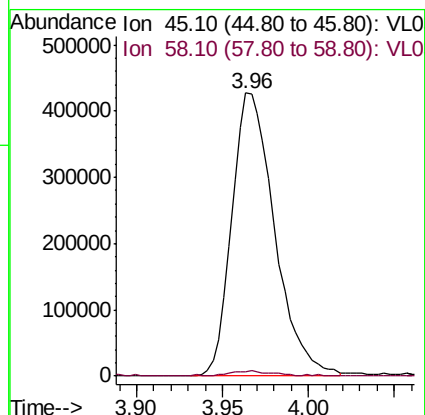
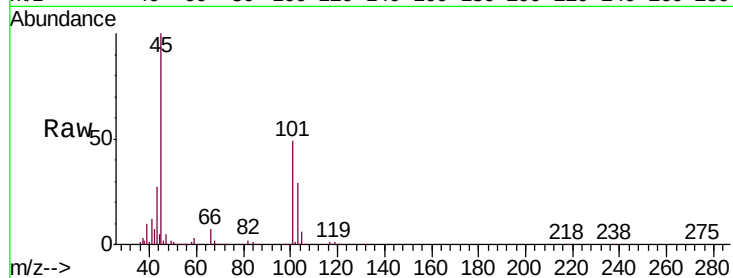




#19  
Isopropyl Alcohol  
Concen: 9.581 ppbv  
RT: 3.96 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

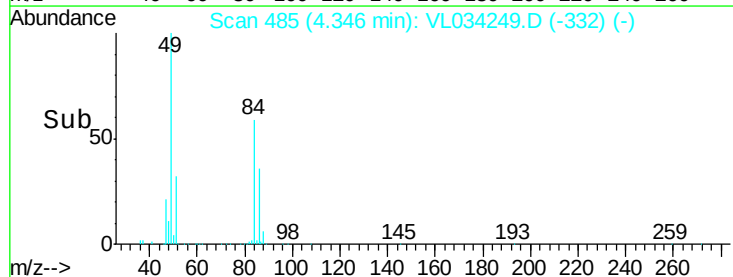
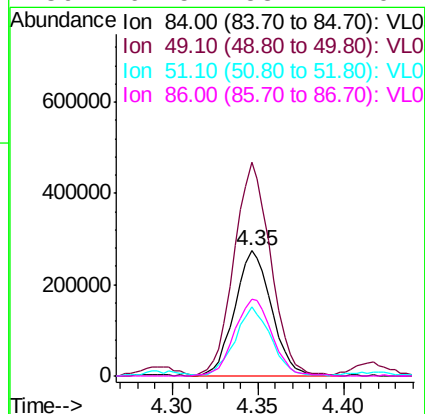
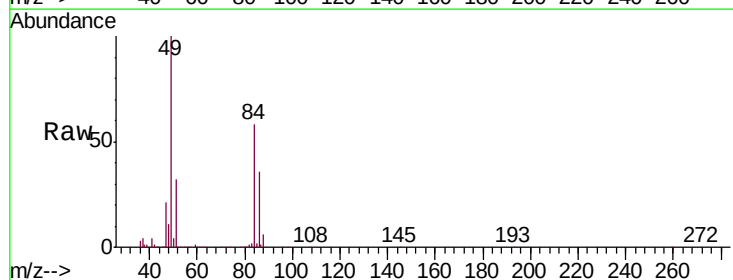
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

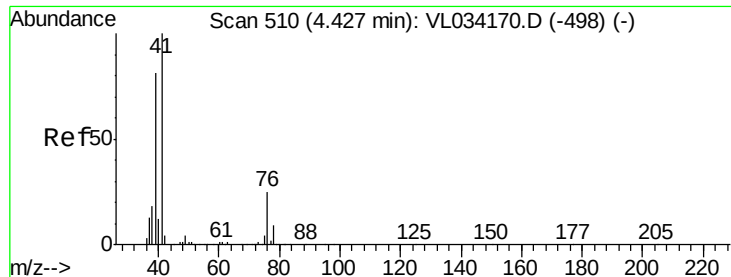
Tgt Ion: 45 Resp: 735751  
Ion Ratio Lower Upper  
45 100  
58 2.3 1.4 2.0#



#20  
Methylene Chloride  
Concen: 11.235 ppbv  
RT: 4.35 min Scan# 485  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 84 Resp: 404530  
Ion Ratio Lower Upper  
84 100  
49 170.1 133.8 200.8  
51 54.9 43.6 65.4  
86 61.5 53.1 79.7





#21

Allyl Chloride

Concen: 12.124 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

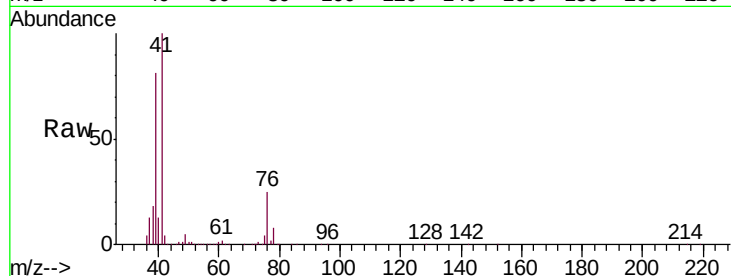
Tgt Ion: 41 Resp: 855219

Ion Ratio Lower Upper

41 100

76 25.8 21.8 32.6

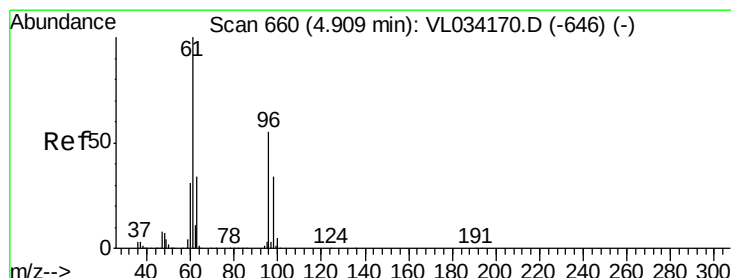
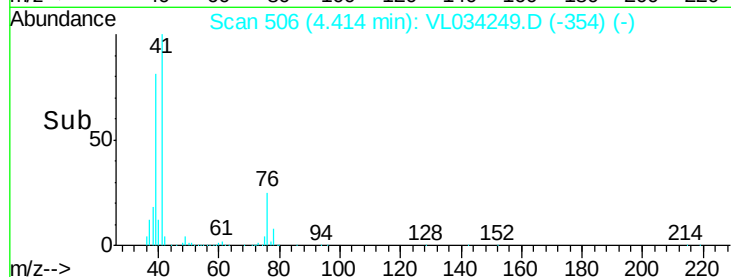
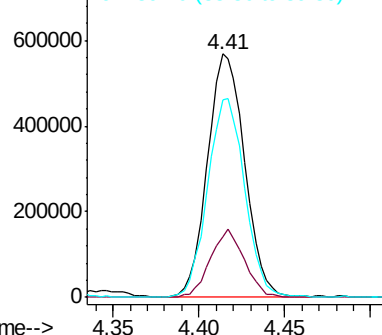
39 82.0 64.8 97.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 12.532 ppbv

RT: 4.90 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

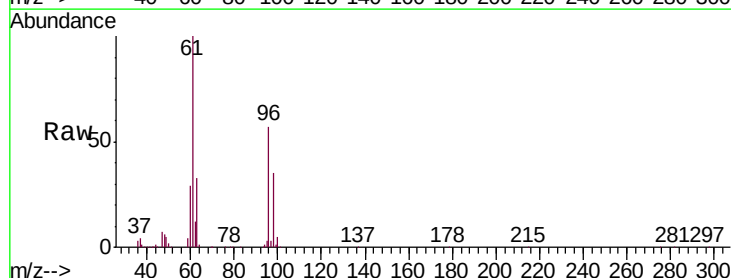
Tgt Ion: 96 Resp: 448370

Ion Ratio Lower Upper

96 100

61 176.3 145.5 218.3

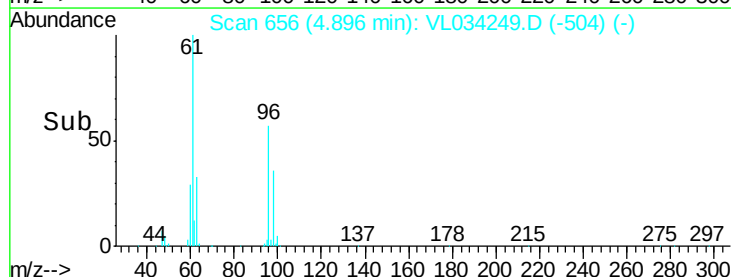
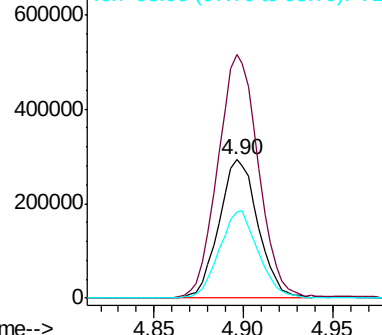
98 62.0 49.9 74.9

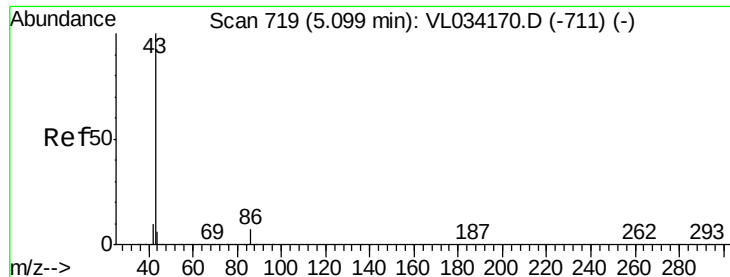


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



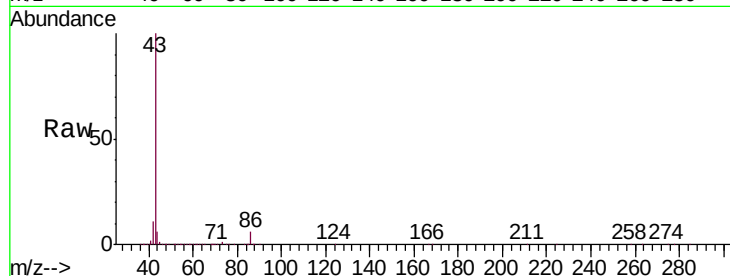


#23  
 Vinyl Acetate  
 Concen: 11.115 ppbv  
 RT: 5.09 min Scan# 716  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

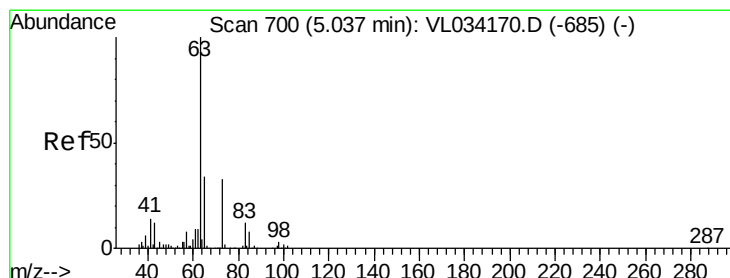
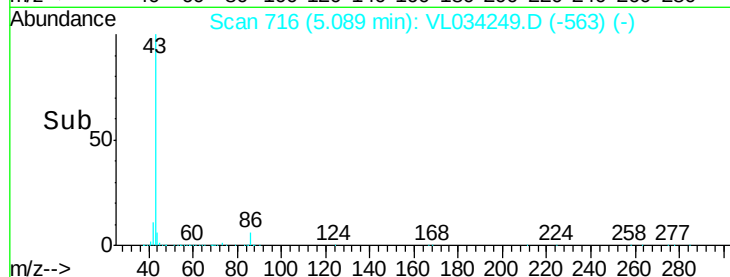
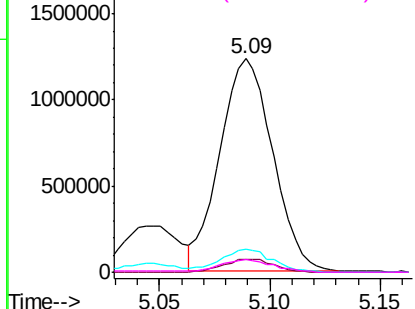
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 43 Resp: 2045443

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.0   | 5.1   | 7.7   |
| 42  | 10.8  | 8.6   | 12.8  |
| 44  | 6.1   | 4.7   | 7.1   |



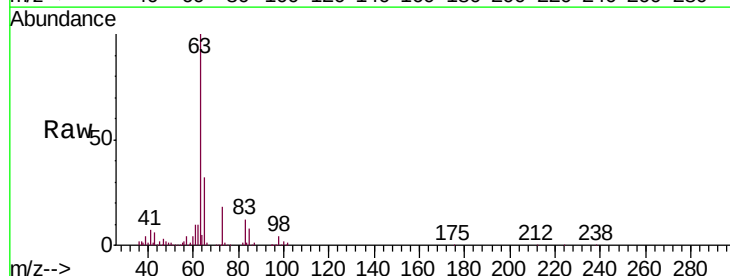
Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 86.10 (85.80 to 86.80): VL0  
 Ion 42.10 (41.80 to 42.80): VL0  
 Ion 44.10 (43.80 to 44.80): VL0



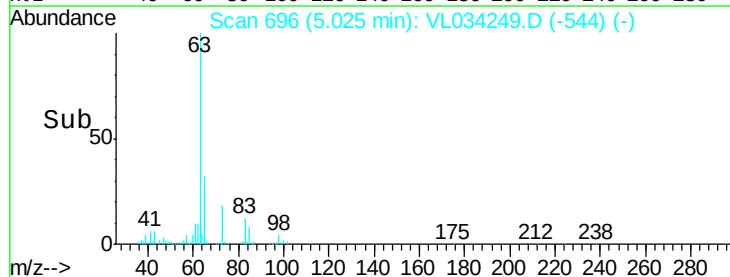
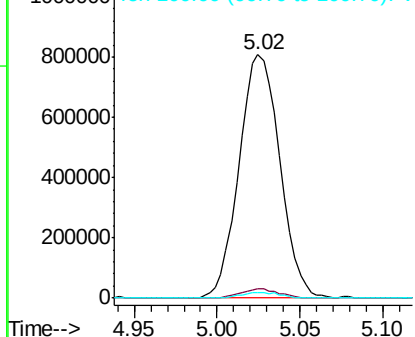
#24  
 1,1-Dichloroethane  
 Concen: 11.161 ppbv  
 RT: 5.02 min Scan# 696  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 63 Resp: 1383040

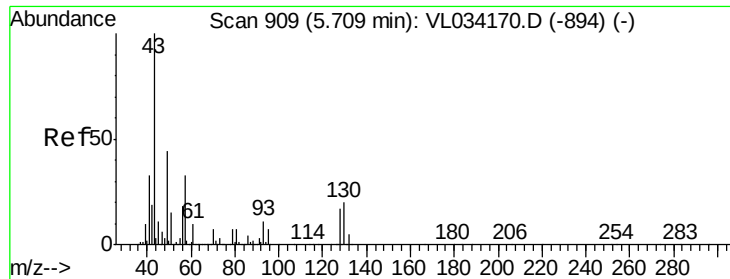
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.8   | 1.8   | 5.3   |
| 100 | 2.2   | 1.0   | 3.0   |



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: 10.817 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2554565

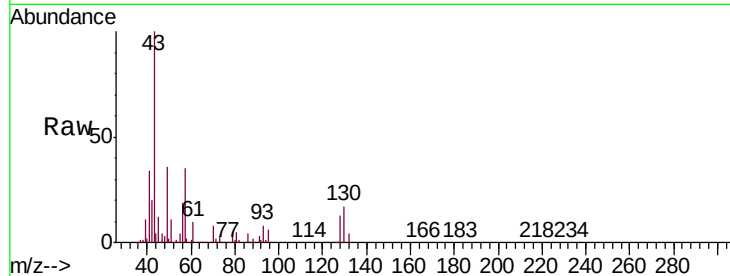
Ion Ratio Lower Upper

43 100

45 10.5 8.4 12.6

61 9.3 7.2 10.8

70 6.7 5.3 7.9

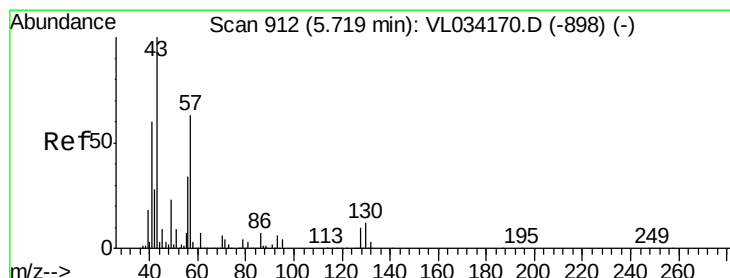
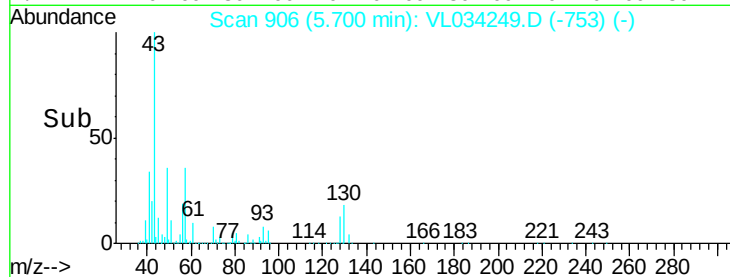
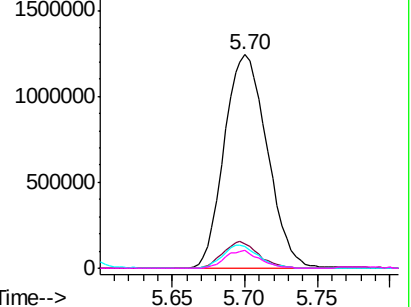


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 11.142 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Tgt Ion: 57 Resp: 1094523

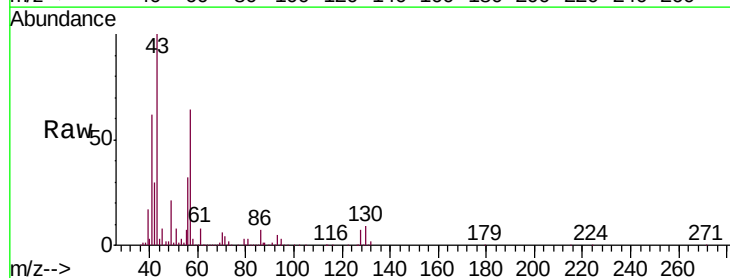
Ion Ratio Lower Upper

57 100

41 97.7 78.5 117.7

43 234.4 189.5 284.3

56 52.5 43.2 64.8

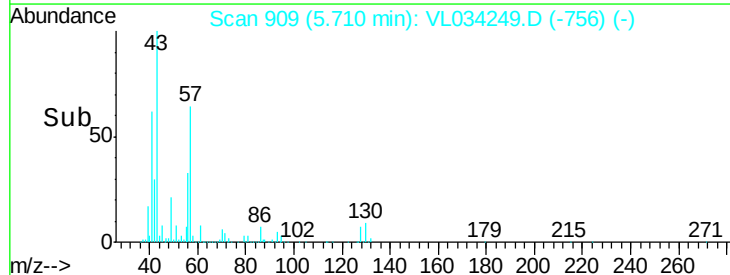
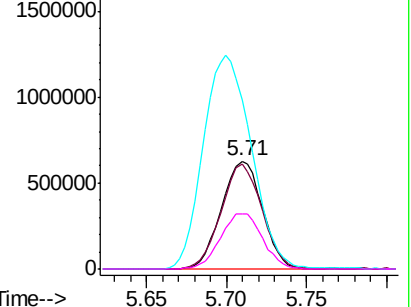


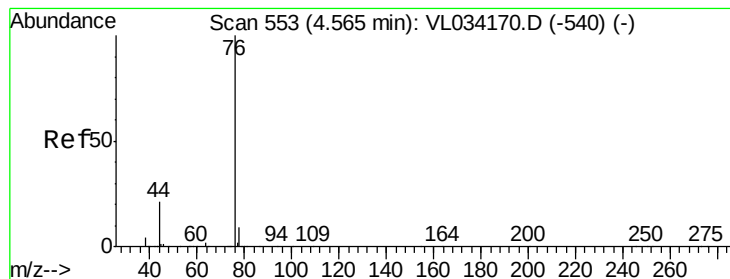
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 12.537 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

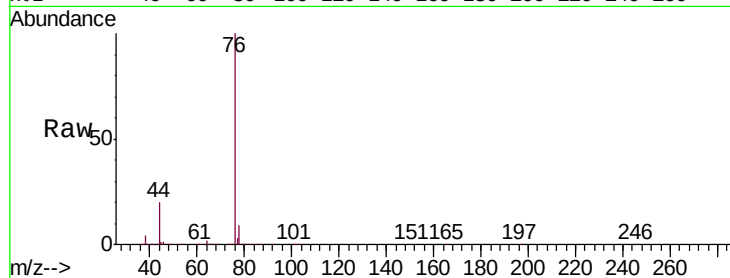
Tgt Ion: 76 Resp: 1135812

Ion Ratio Lower Upper

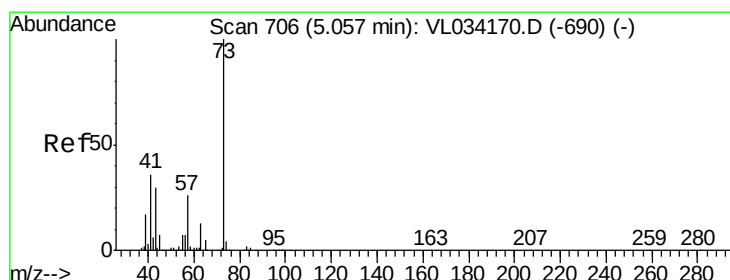
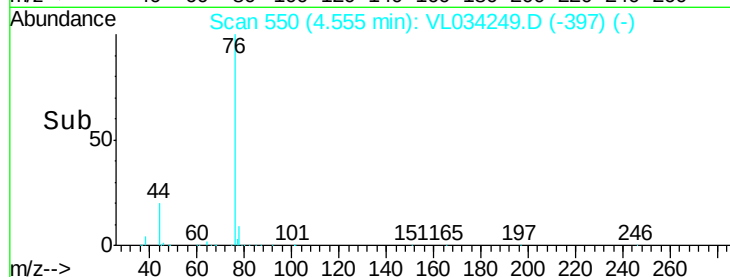
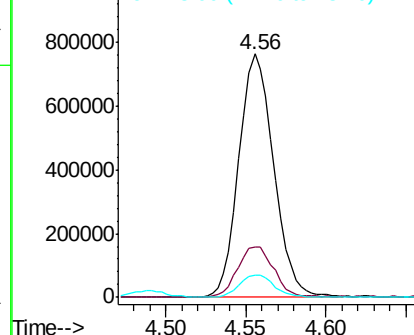
76 100

44 21.1 17.6 26.4

78 9.4 7.6 11.4



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: 11.620 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL034249.D

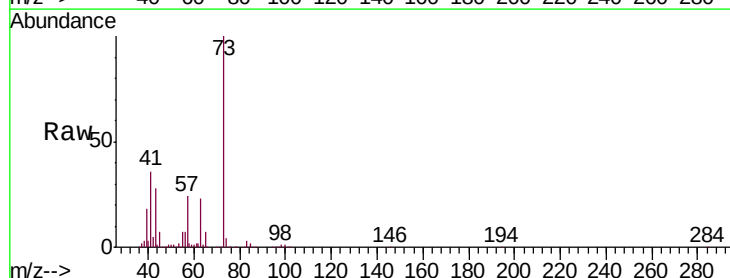
Acq: 8 Oct 2019 11:51

Tgt Ion: 73 Resp: 1695384

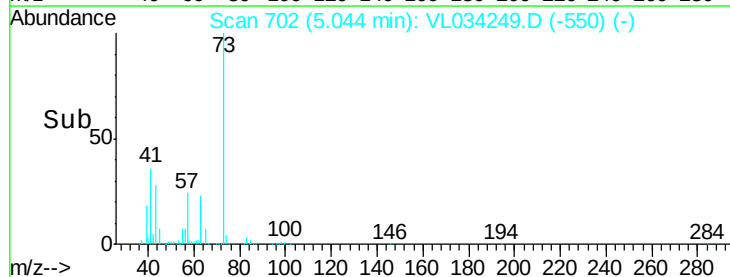
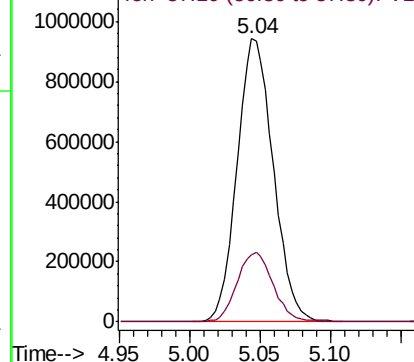
Ion Ratio Lower Upper

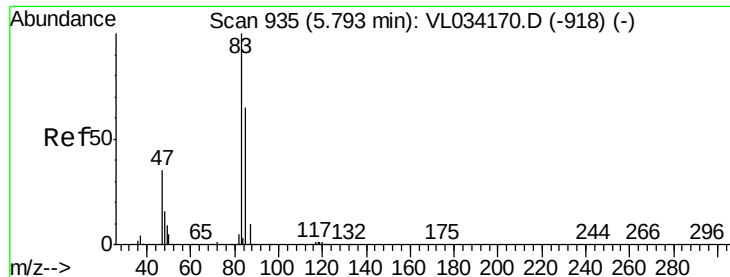
73 100

57 24.5 20.2 30.2



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

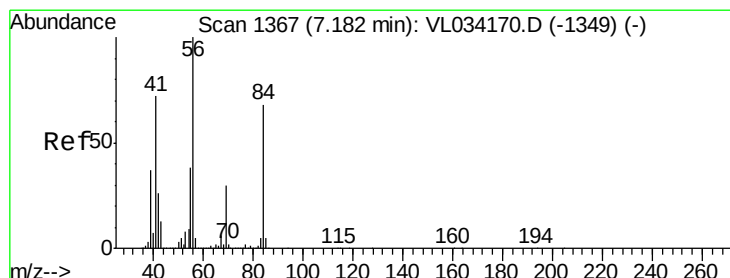
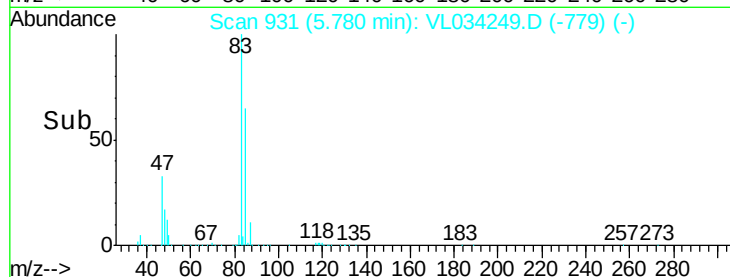
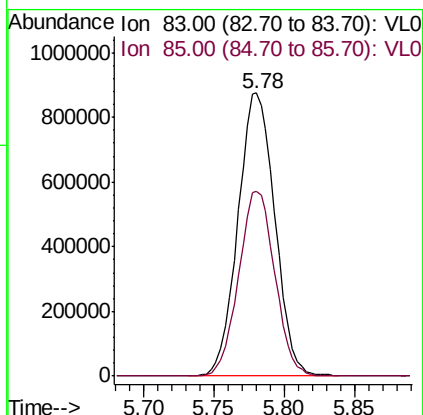
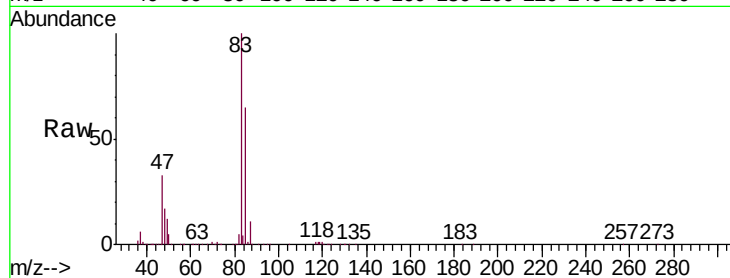




#29  
Chloroform  
Concen: 11.433 ppbv  
RT: 5.78 min Scan# 931  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

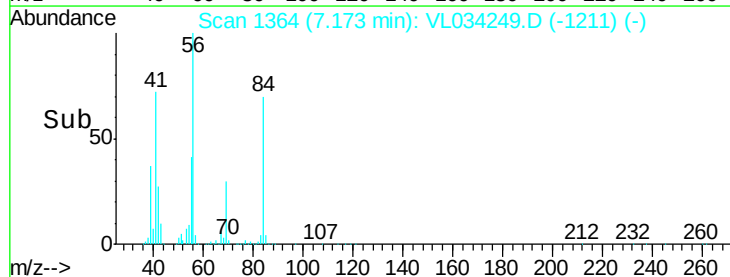
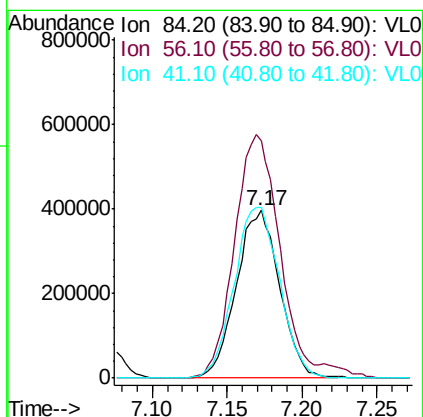
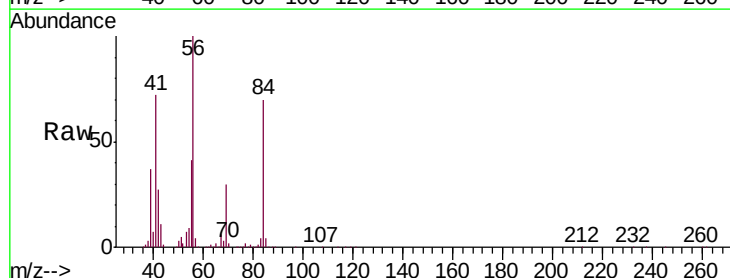
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

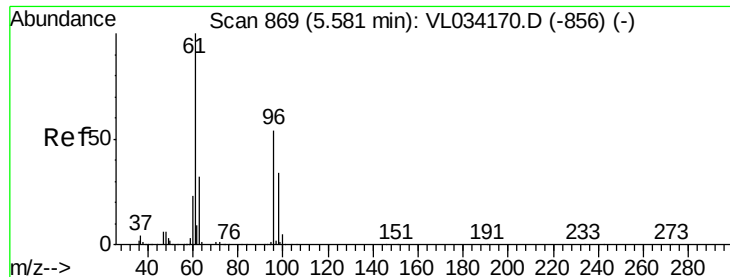
Tgt Ion: 83 Resp: 1604914  
Ion Ratio Lower Upper  
83 100  
85 65.2 52.3 78.5



#30  
Cyclohexane  
Concen: 11.205 ppbv  
RT: 7.17 min Scan# 1364  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 84 Resp: 794698  
Ion Ratio Lower Upper  
84 100  
56 156.4 126.2 189.2  
41 108.1 85.8 128.8



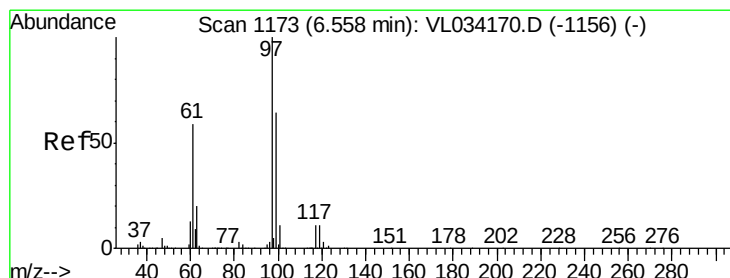
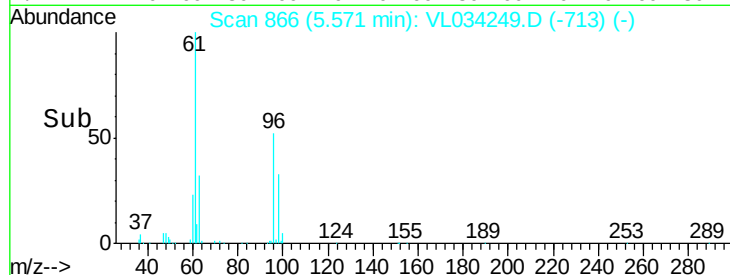
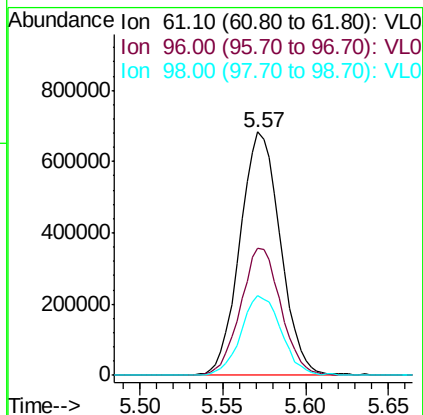
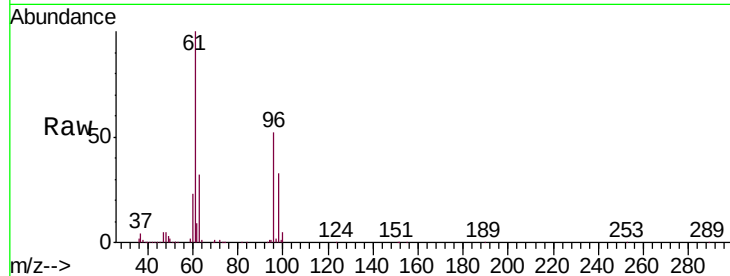


#31

cis-1,2-Dichloroethene  
 Concen: 11.518 ppbv  
 RT: 5.57 min Scan# 866  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

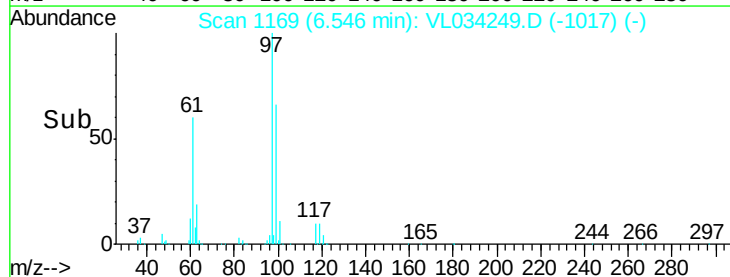
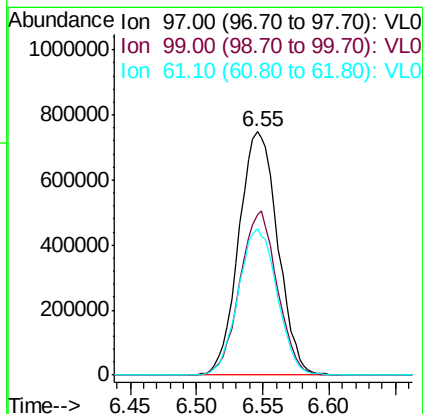
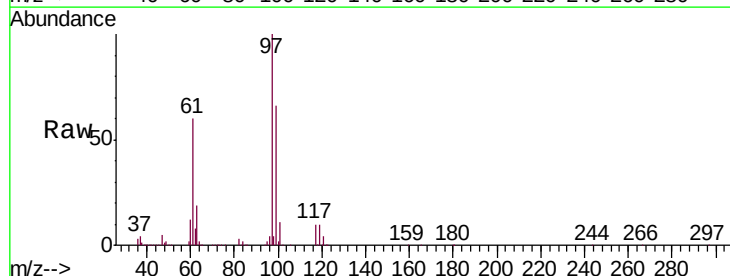
Tgt Ion: 61 Resp: 1153408  
 Ion Ratio Lower Upper  
 61 100  
 96 52.1 43.0 64.4  
 98 32.6 27.2 40.8

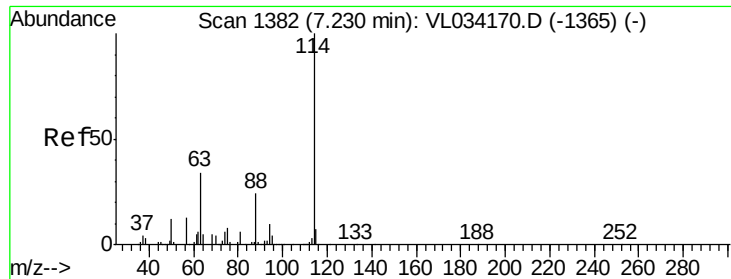


#32

1,1,1-Trichloroethane  
 Concen: 11.278 ppbv  
 RT: 6.55 min Scan# 1169  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 97 Resp: 1526860  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 51.4 77.2  
 61 60.2 48.4 72.6

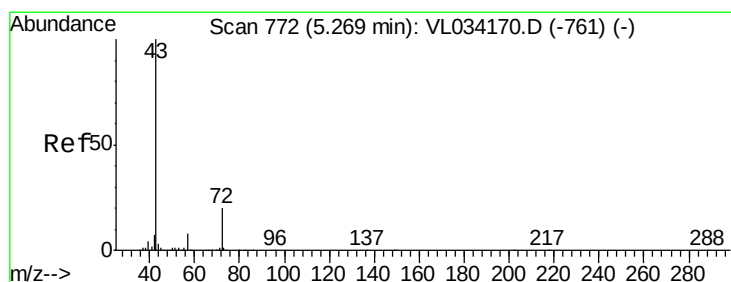
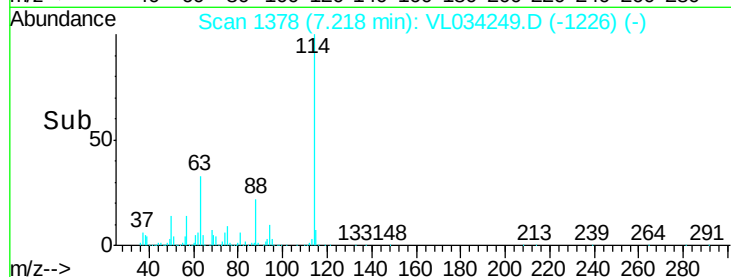
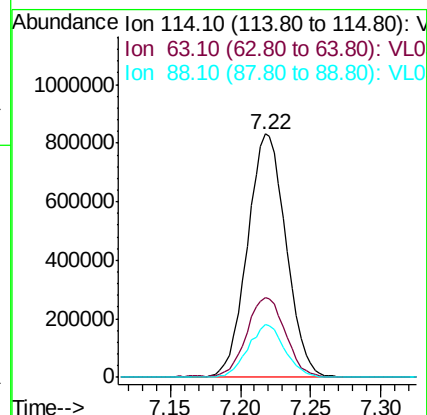
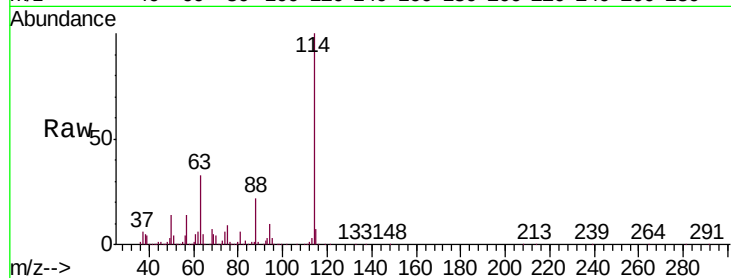




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.22 min Scan# 1378  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

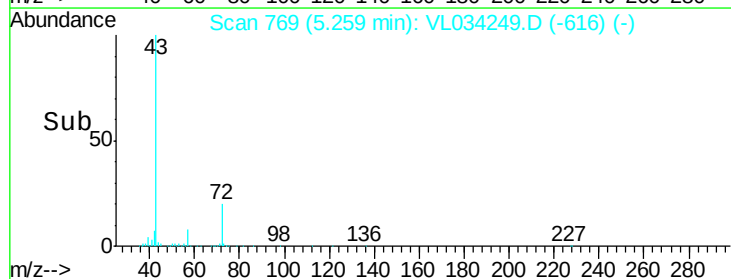
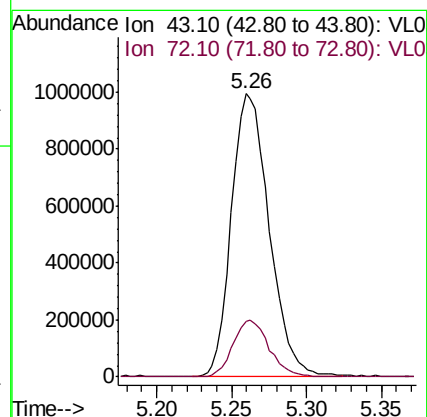
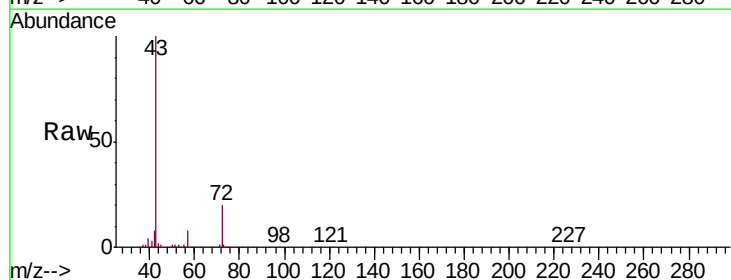
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

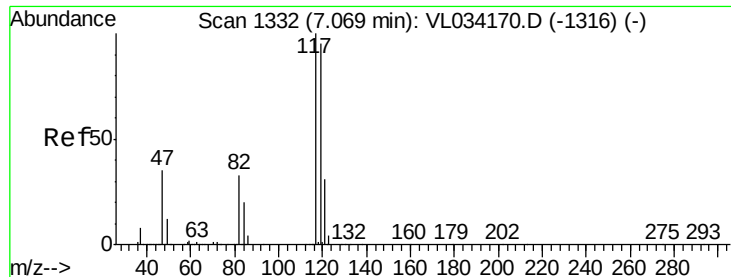
Tgt Ion: 114 Resp: 1593040  
 Ion Ratio Lower Upper  
 114 100  
 63 33.5 27.8 41.6  
 88 20.8 17.1 25.7



#34  
 2-Butanone  
 Concen: 10.712 ppbv  
 RT: 5.26 min Scan# 769  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 43 Resp: 1742444  
 Ion Ratio Lower Upper  
 43 100  
 72 19.3 15.0 22.6

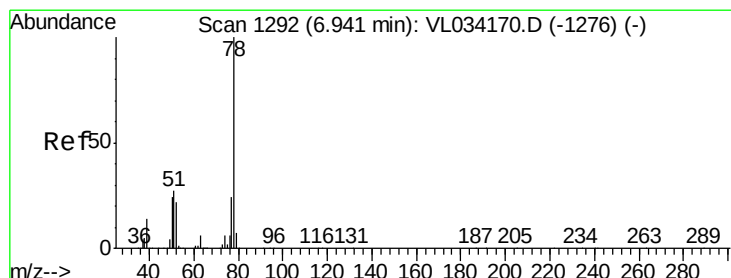
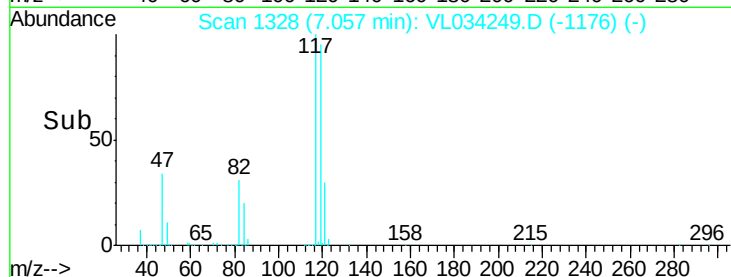
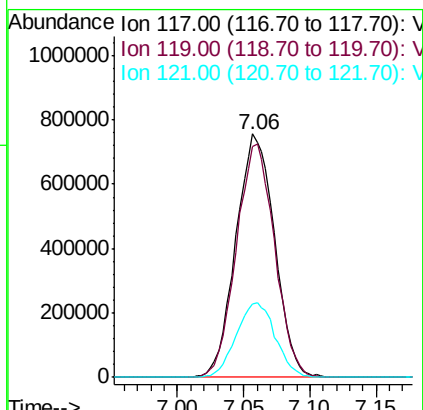
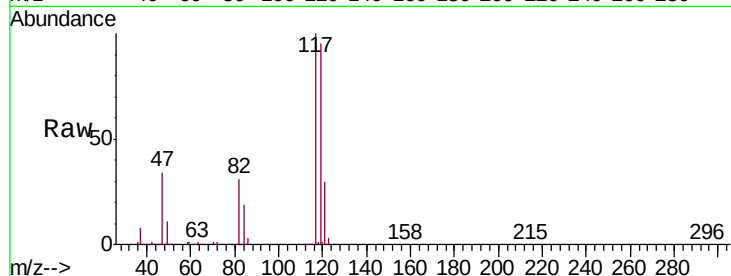




#35  
Carbon Tetrachloride  
Concen: 11.547 ppbv  
RT: 7.06 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

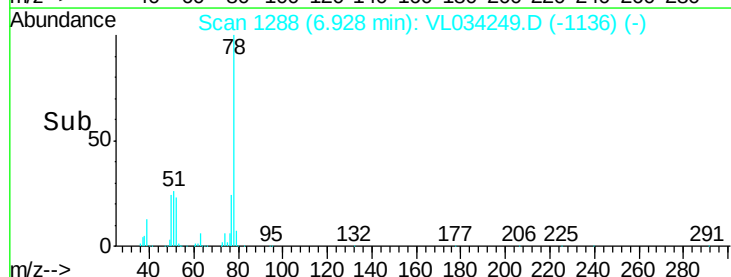
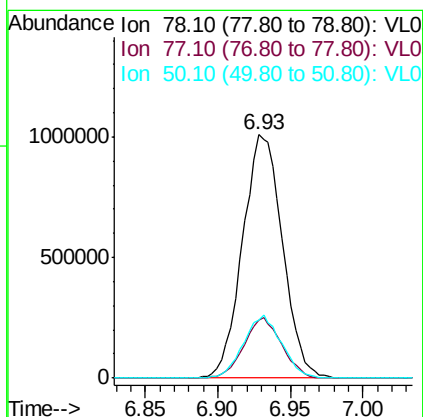
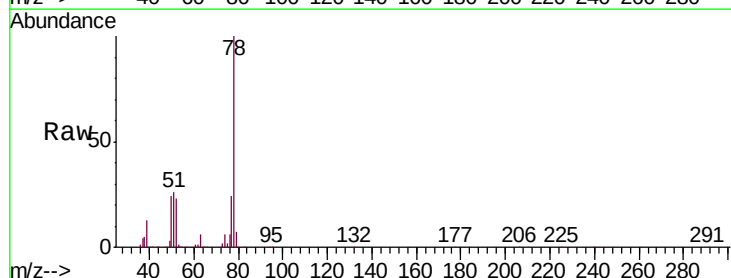
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

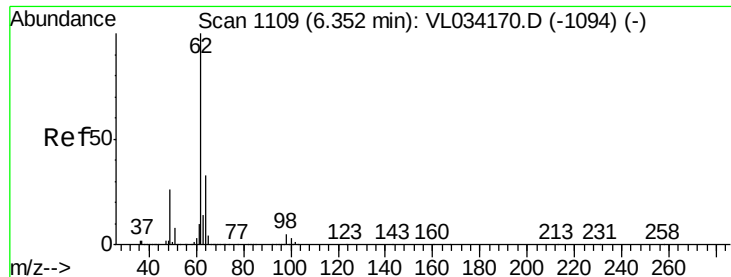
Tgt Ion: 117 Resp: 1528201  
Ion Ratio Lower Upper  
117 100  
119 95.1 75.8 113.6  
121 30.1 25.0 37.6



#36  
Benzene  
Concen: 10.997 ppbv  
RT: 6.93 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 78 Resp: 1934899  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.0 28.4  
50 23.9 18.9 28.3





#37

1,2-Dichloroethane

Concen: 11.551 ppbv

RT: 6.34 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

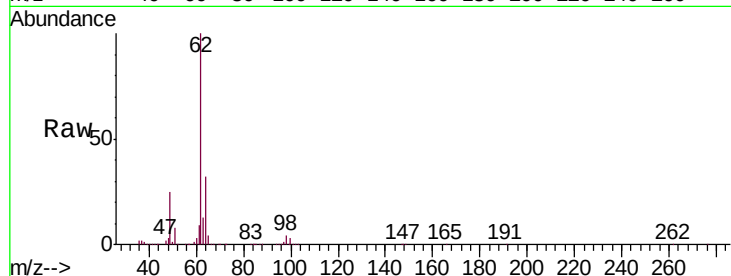
VSTDCCC010EC

Tgt Ion: 62 Resp: 1445515

Ion Ratio Lower Upper

62 100

98 4.5 3.8 5.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.34

800000

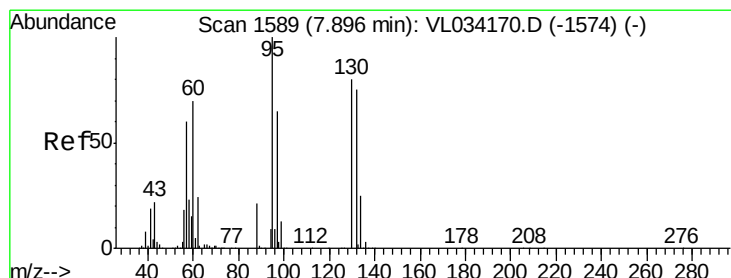
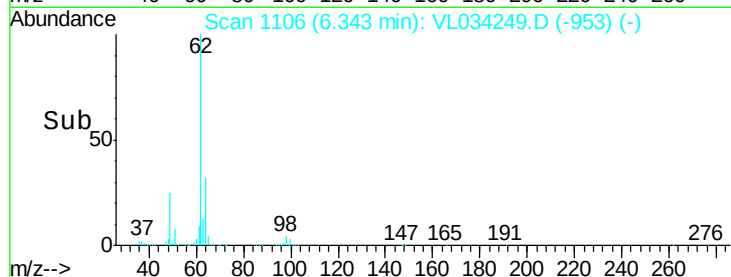
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 10.383 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Tgt Ion: 130 Resp: 652718

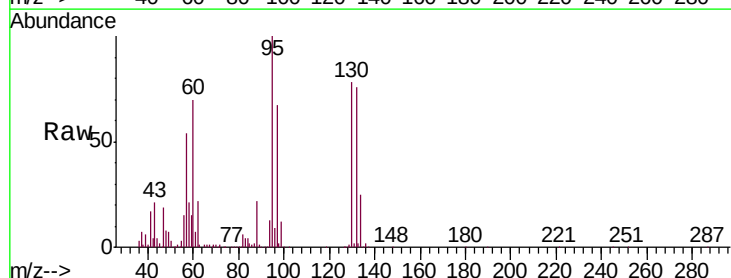
Ion Ratio Lower Upper

130 100

95 128.8 99.8 149.6

132 97.8 75.2 112.8

97 86.0 65.0 97.4



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

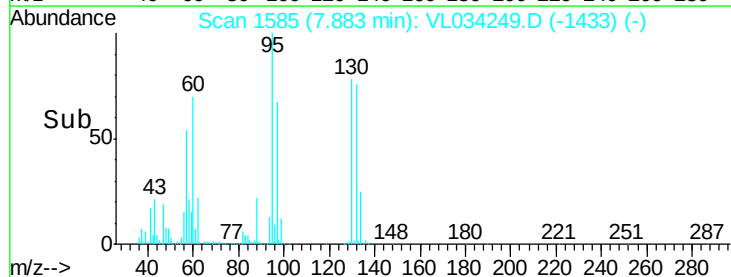
600000

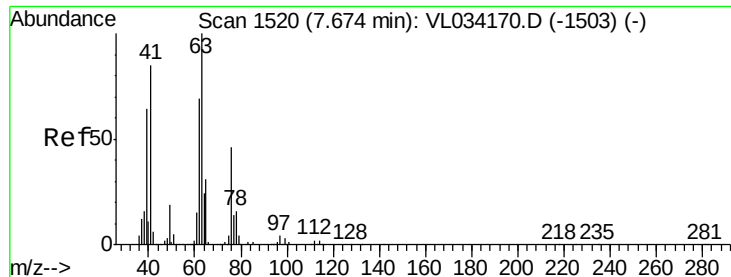
400000

200000

0

Time-->

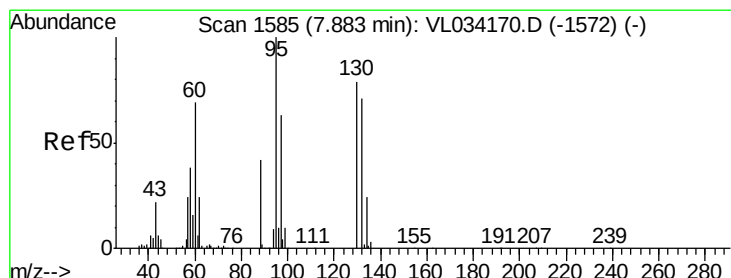
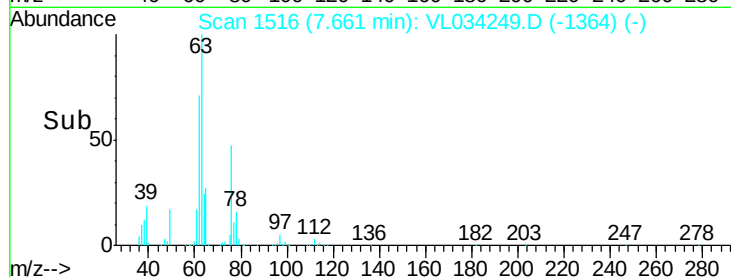
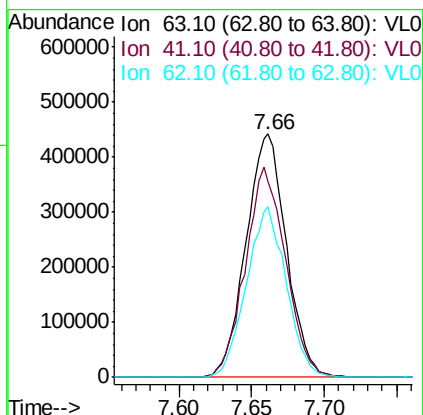
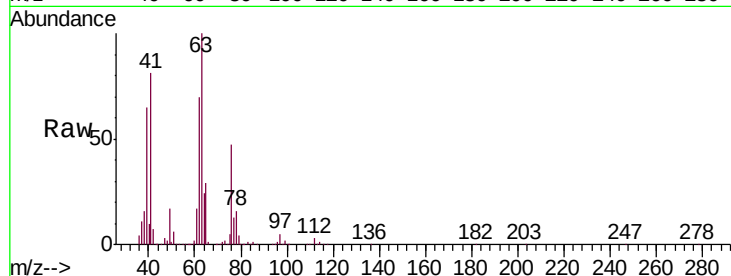




#39  
 1,2-Dichloropropane  
 Concen: 10.863 ppbv  
 RT: 7.66 min Scan# 1516  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

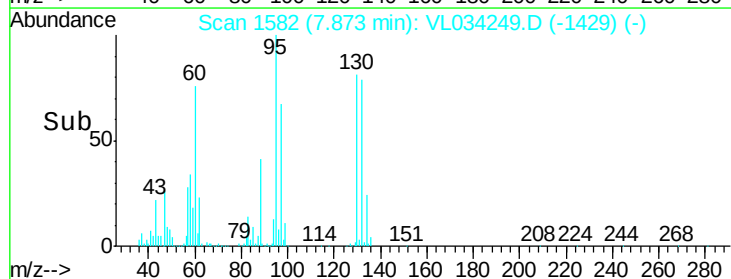
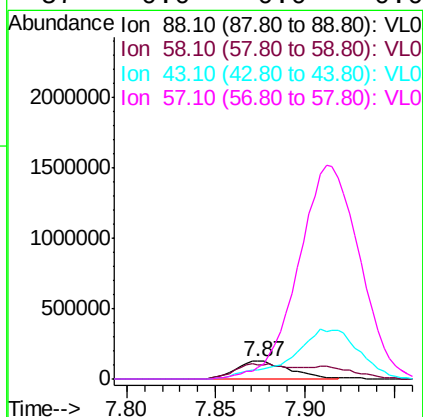
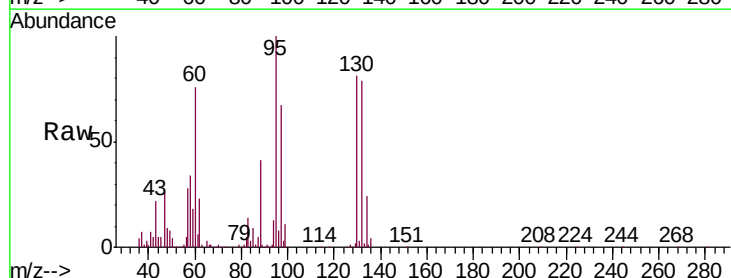
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Tgt Ion: 63 Resp: 858737  
 Ion Ratio Lower Upper  
 63 100  
 41 80.7 68.4 102.6  
 62 70.1 55.4 83.2

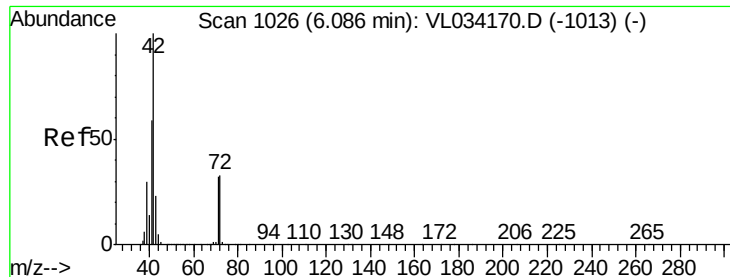


#40  
 1,4-Dioxane  
 Concen: 10.386 ppbv  
 RT: 7.87 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 88 Resp: 265691  
 Ion Ratio Lower Upper  
 88 100  
 58 153.5 131.8 197.6  
 43 0.0 0.0 0.0  
 57 0.0 0.0 0.0



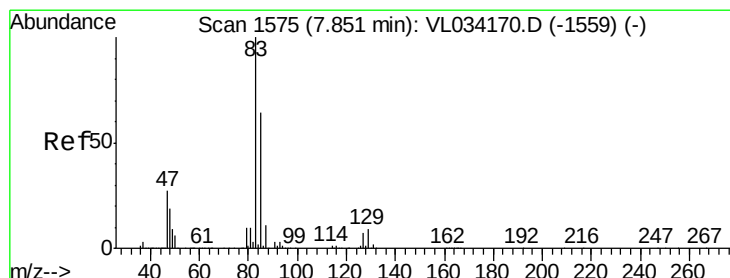
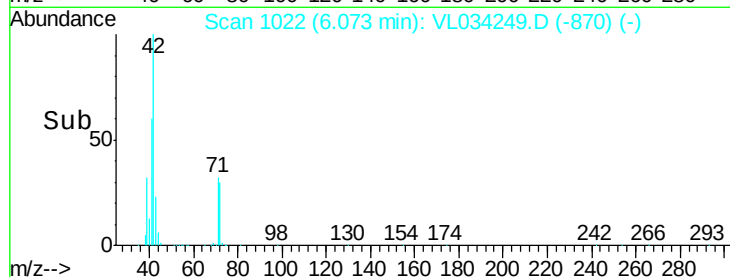
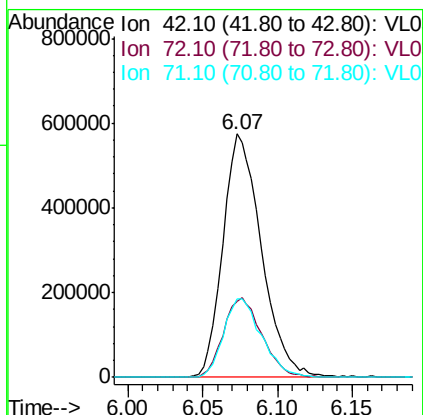
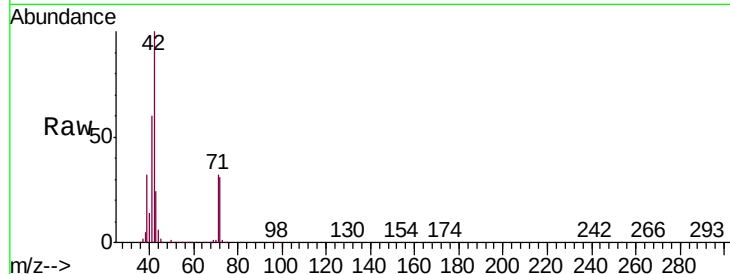




#41  
Tetrahydrofuran  
Concen: 11.195 ppbv  
RT: 6.07 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

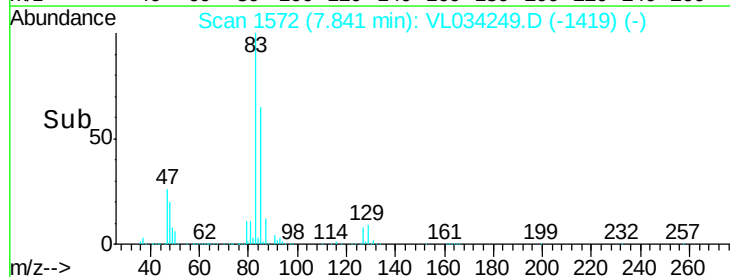
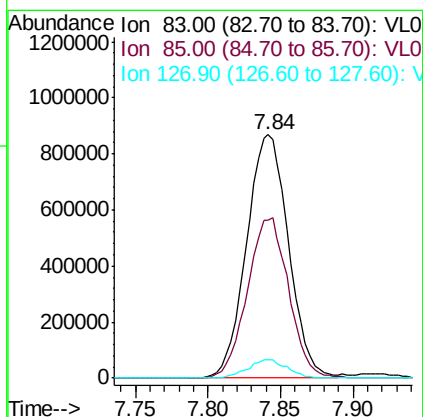
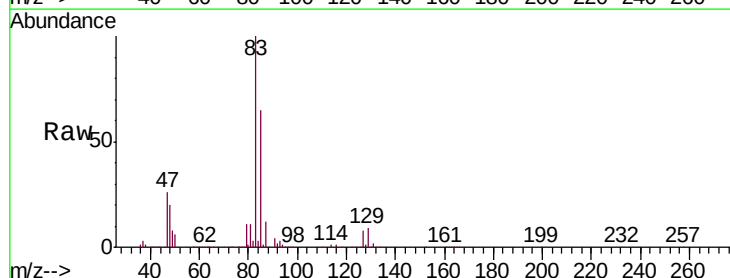
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

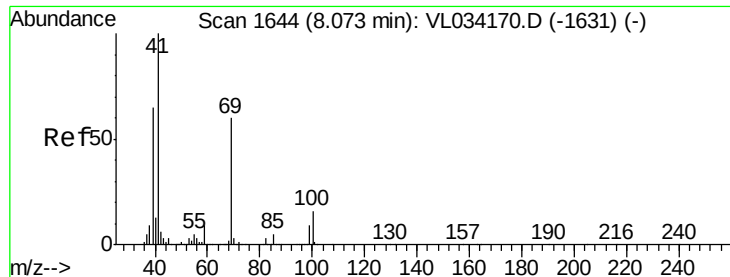
Tgt Ion: 42 Resp: 1025618  
Ion Ratio Lower Upper  
42 100  
72 32.9 26.6 40.0  
71 32.3 25.1 37.7



#42  
Bromodichloromethane  
Concen: 11.648 ppbv  
RT: 7.84 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 83 Resp: 1749405  
Ion Ratio Lower Upper  
83 100  
85 64.9 51.4 77.0  
127 7.7 5.5 8.3

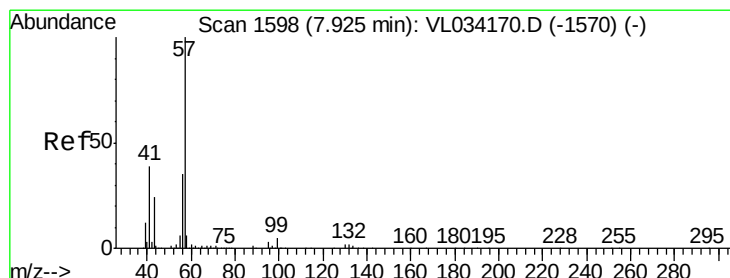
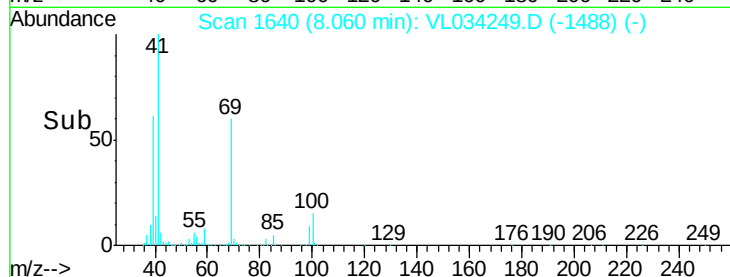
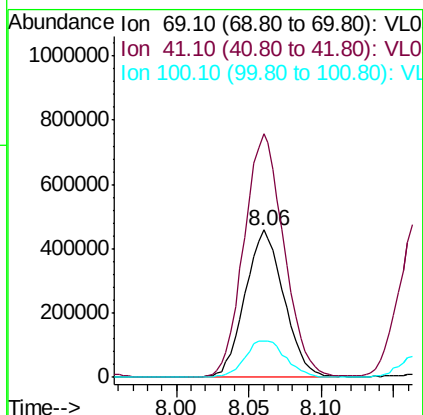
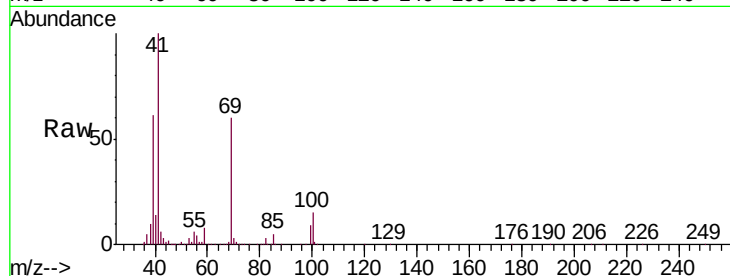




#43  
Methyl Methacrylate  
Concen: 11.789 ppbv  
RT: 8.06 min Scan# 1640  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

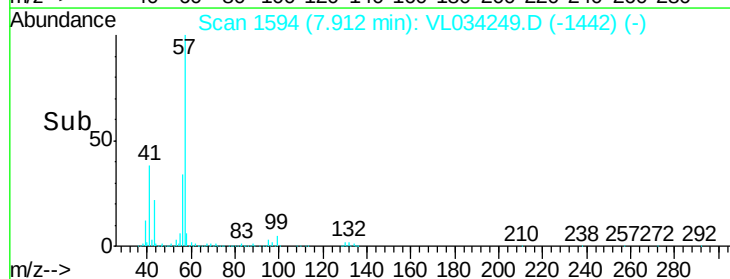
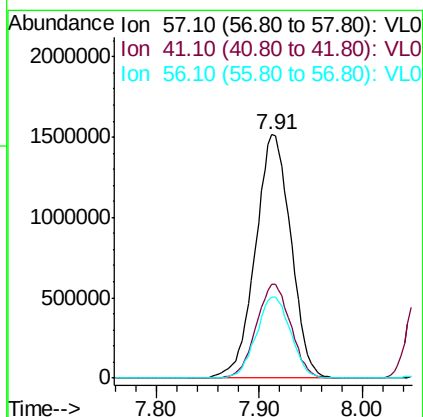
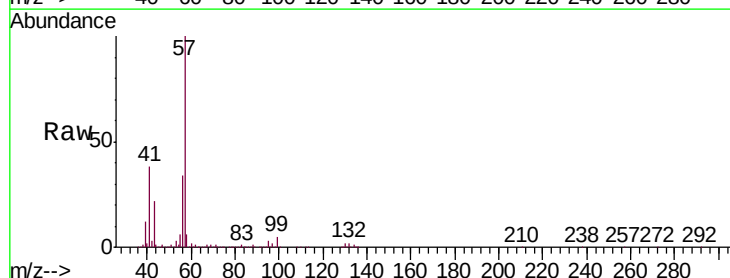
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

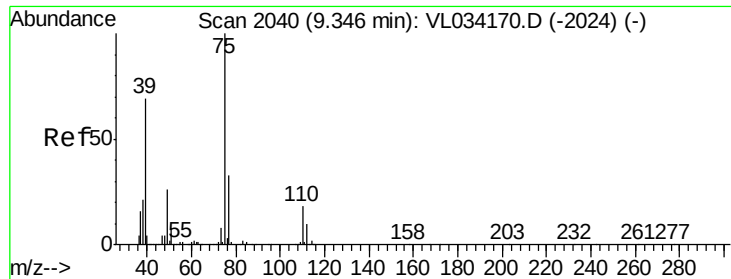
Tgt Ion: 69 Resp: 856799  
Ion Ratio Lower Upper  
69 100  
41 169.9 140.4 210.6  
100 26.1 21.9 32.9



#44  
2,2,4-Trimethylpentane  
Concen: 10.683 ppbv  
RT: 7.91 min Scan# 1594  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 57 Resp: 3618556  
Ion Ratio Lower Upper  
57 100  
41 37.5 29.8 44.6  
56 32.3 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 12.909 ppbv

RT: 9.34 min Scan# 2037

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

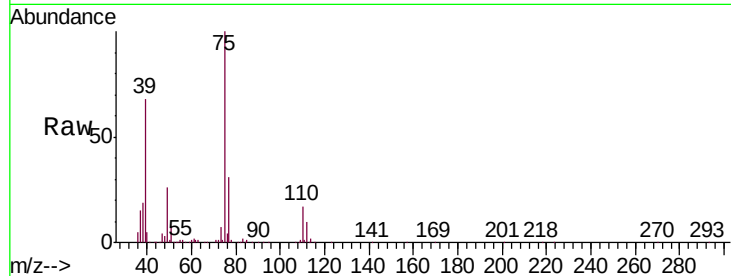
VSTDCCC010EC

Tgt Ion: 75 Resp: 1109343

Ion Ratio Lower Upper

75 100

77 30.6 26.2 39.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.34

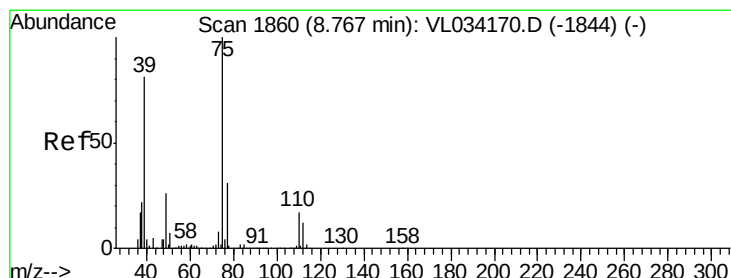
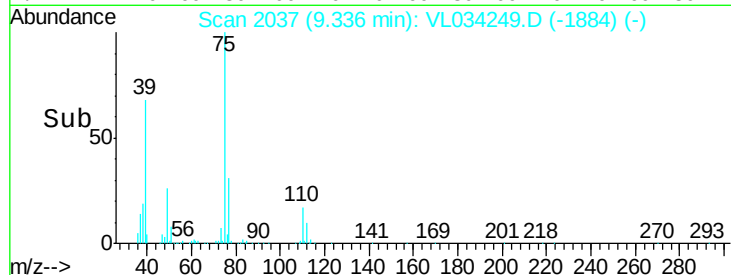
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.238 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

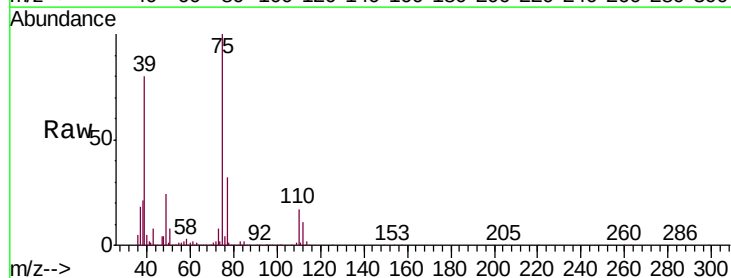
Tgt Ion: 75 Resp: 1265130

Ion Ratio Lower Upper

75 100

39 80.3 65.0 97.4

77 32.0 24.5 36.7



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

800000

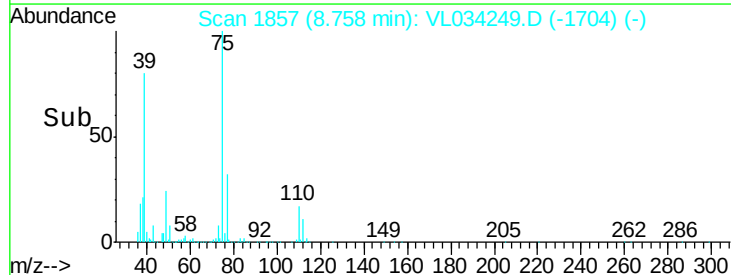
600000

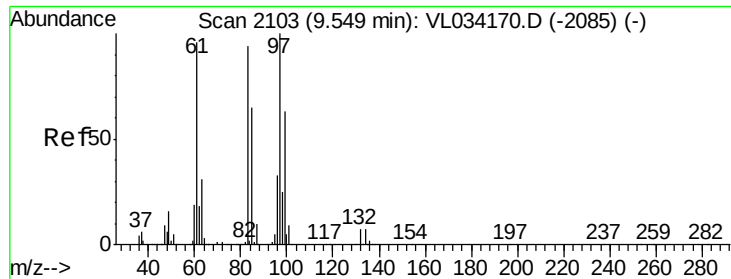
400000

200000

0

Time-->

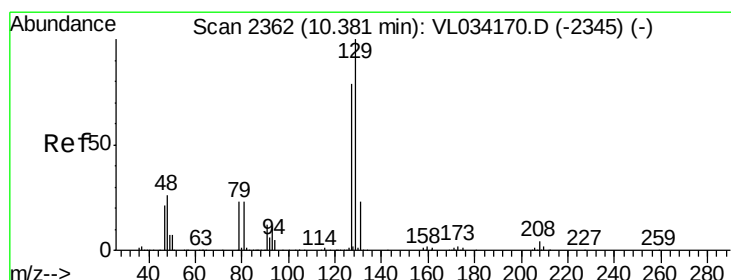
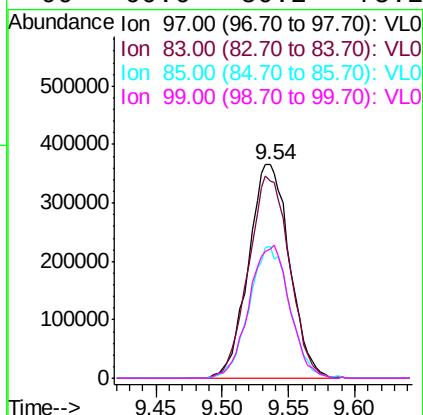
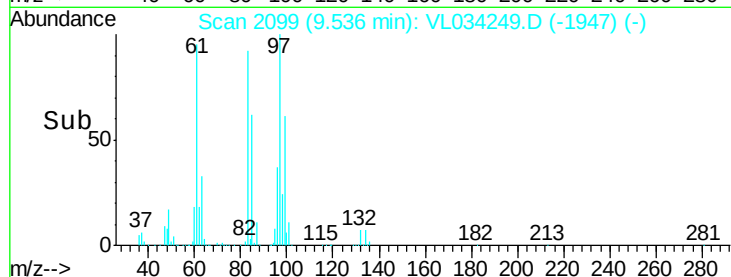
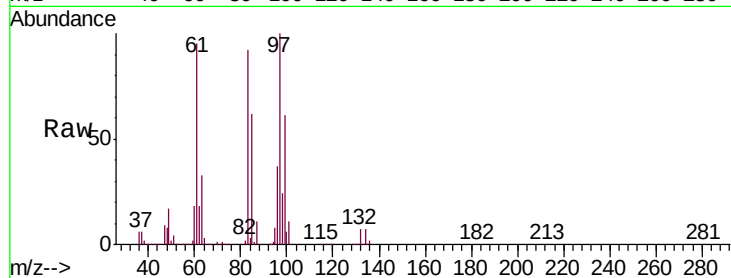




#47  
 1,1,2-Trichloroethane  
 Concen: 11.103 ppbv  
 RT: 9.54 min Scan# 2099  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

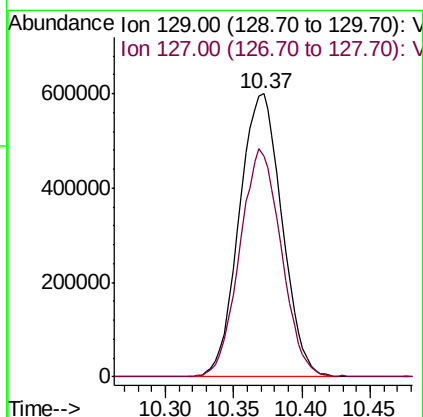
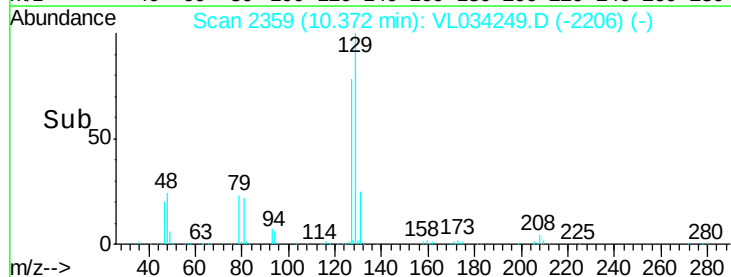
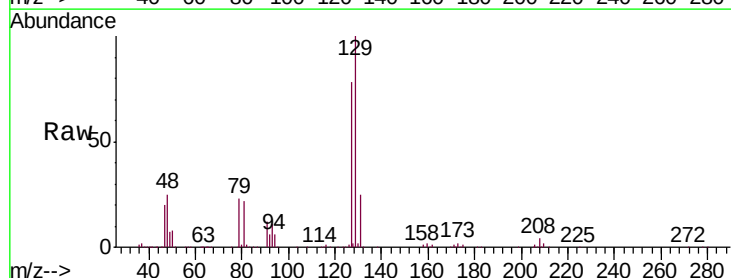
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

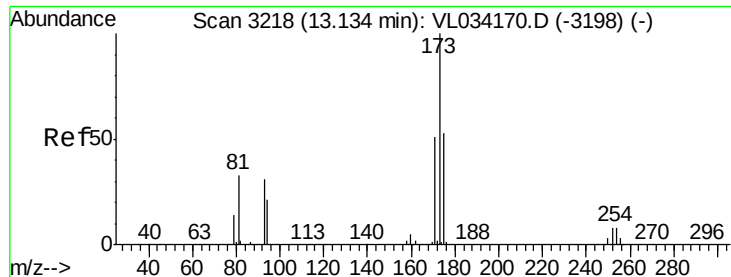
Tgt Ion: 97 Resp: 788166  
 Ion Ratio Lower Upper  
 97 100  
 83 92.2 75.3 112.9  
 85 61.9 52.1 78.1  
 99 60.6 50.2 75.2



#48  
 Dibromochloromethane  
 Concen: 11.594 ppbv  
 RT: 10.37 min Scan# 2359  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 129 Resp: 1304441  
 Ion Ratio Lower Upper  
 129 100  
 127 78.5 39.2 117.6





#49

Bromoform

Concen: 11.871 ppbv

RT: 13.12 min Scan# 3213

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

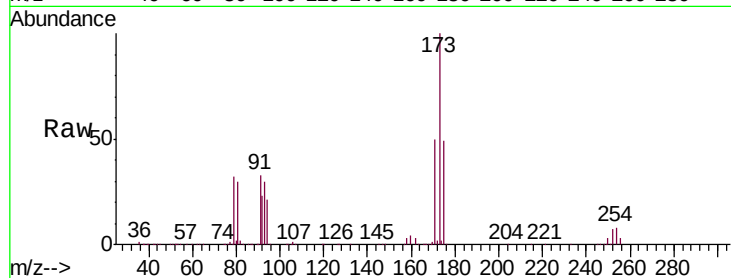
Tgt Ion:173 Resp: 1080849

Ion Ratio Lower Upper

173 100

175 49.4 40.3 60.5

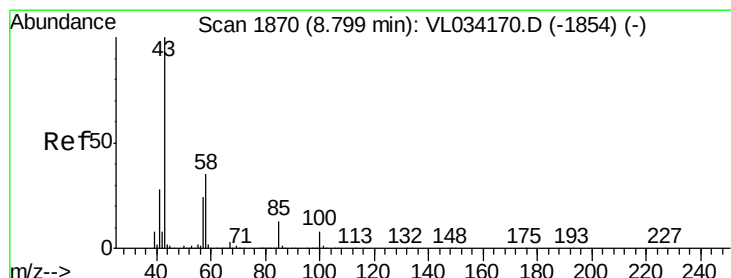
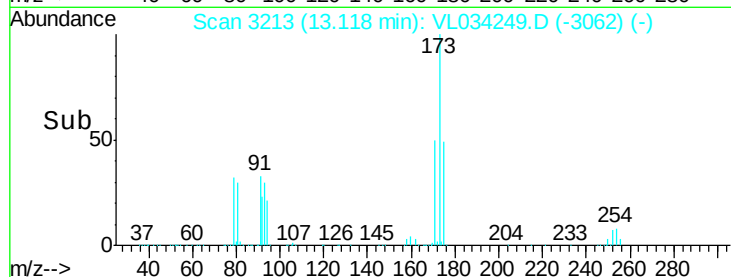
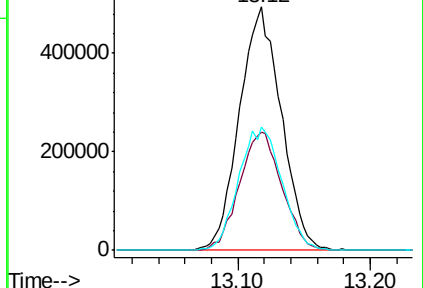
171 52.6 42.0 63.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.850 ppbv

RT: 8.79 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VL034249.D

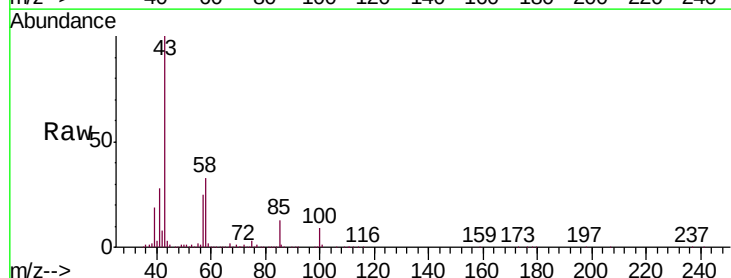
Acq: 8 Oct 2019 11:51

Tgt Ion: 43 Resp: 2568485

Ion Ratio Lower Upper

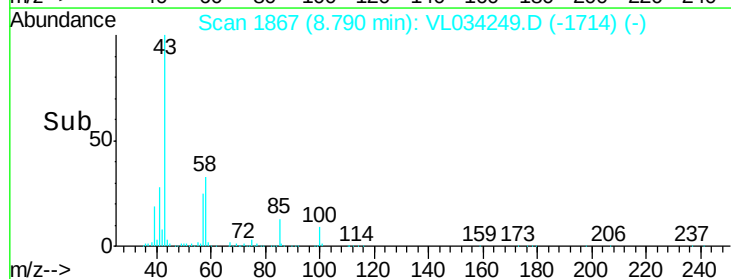
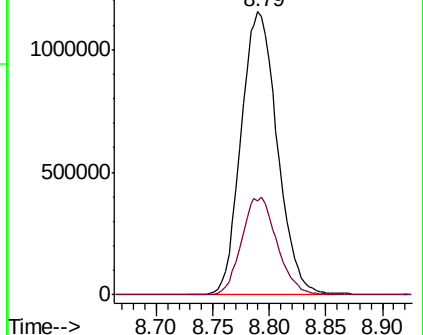
43 100

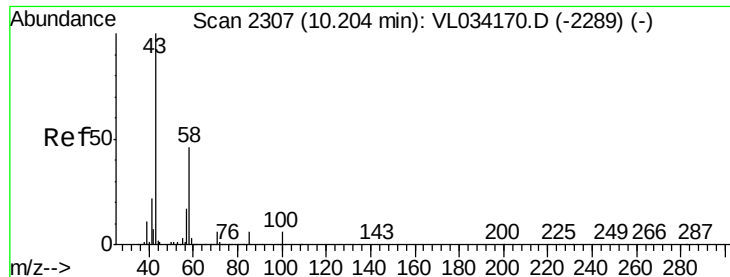
58 33.9 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.889 ppbv

RT: 10.19 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

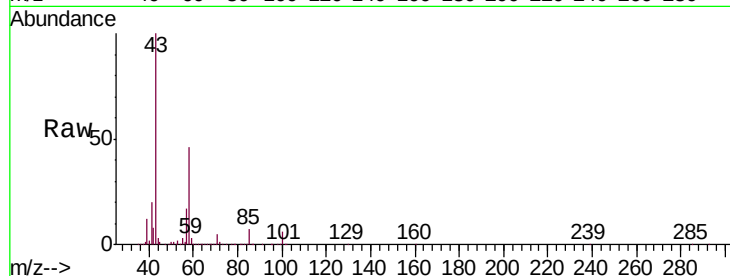
Tgt Ion: 43 Resp: 2163274

Ion Ratio Lower Upper

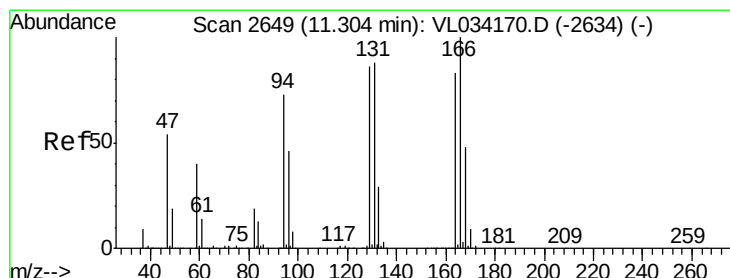
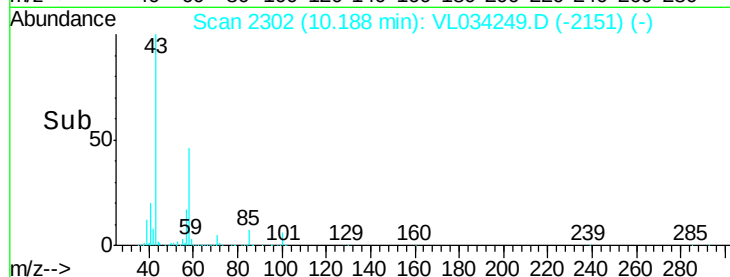
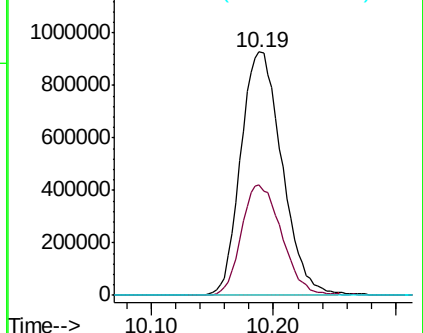
43 100

58 44.5 36.2 54.4

98 0.2 0.2 0.2



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: 10.258 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Tgt Ion: 164 Resp: 596297

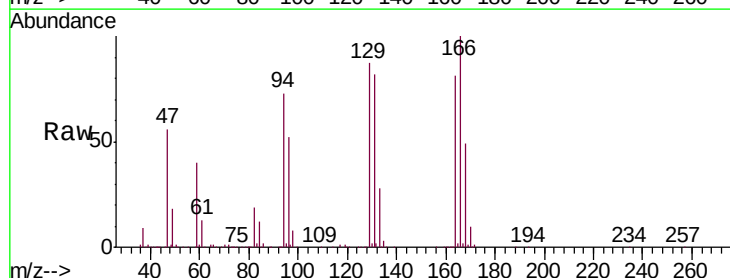
Ion Ratio Lower Upper

164 100

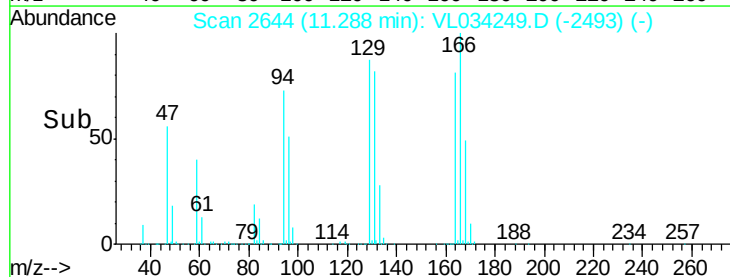
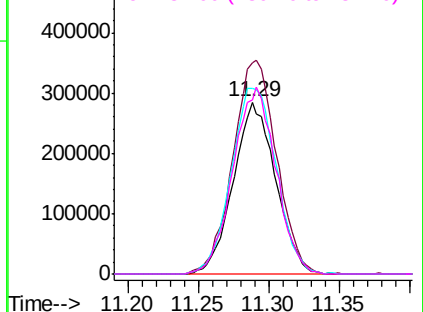
166 122.9 96.7 145.1

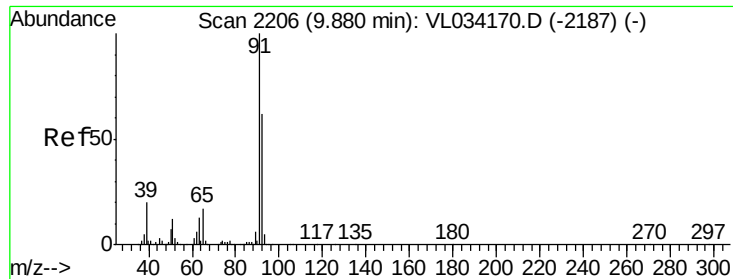
129 107.7 82.8 124.2

131 101.5 85.0 127.6



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: 11.145 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

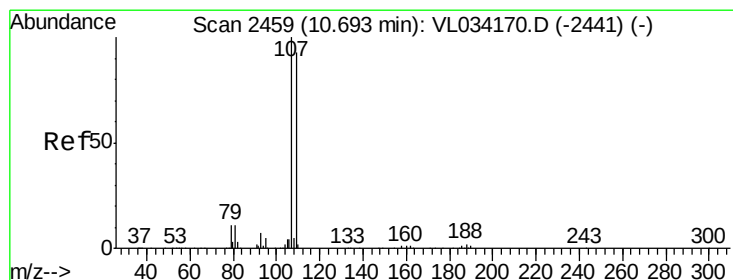
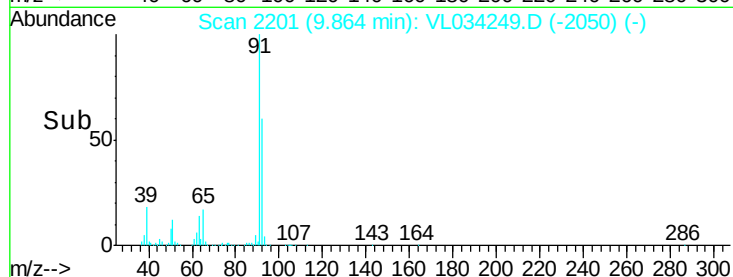
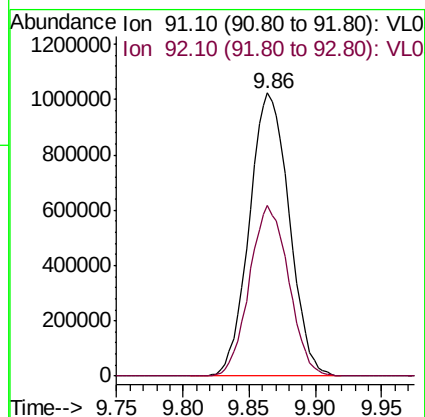
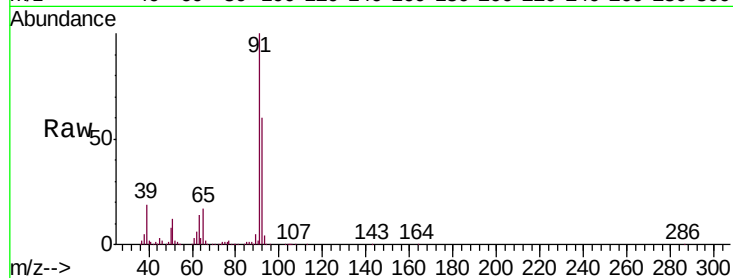
VSTDCCC010EC

Tgt Ion: 91 Resp: 2143119

Ion Ratio Lower Upper

91 100

92 59.4 49.0 73.6



#54

1,2-Dibromoethane

Concen: 11.075 ppbv

RT: 10.68 min Scan# 2454

Delta R.T. -0.02 min

Lab File: VL034249.D

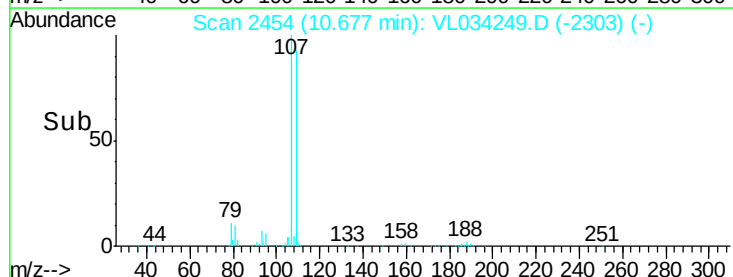
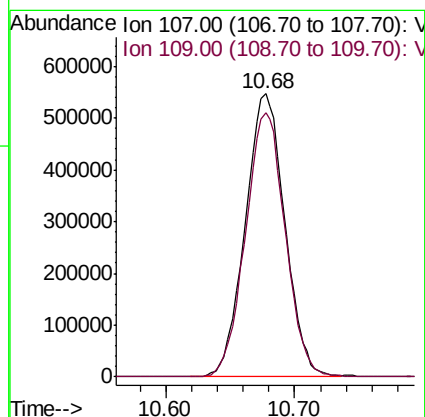
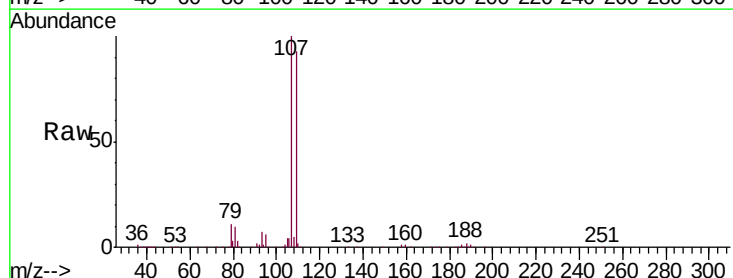
Acq: 8 Oct 2019 11:51

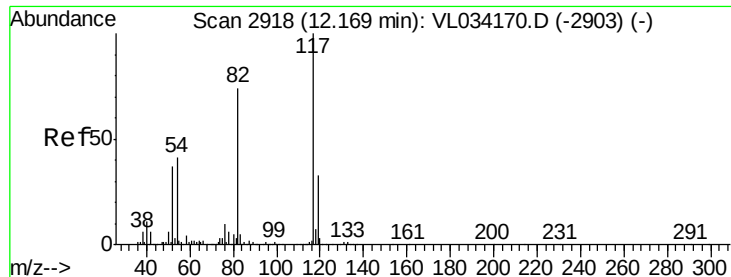
Tgt Ion: 107 Resp: 1169163

Ion Ratio Lower Upper

107 100

109 93.1 74.5 111.7

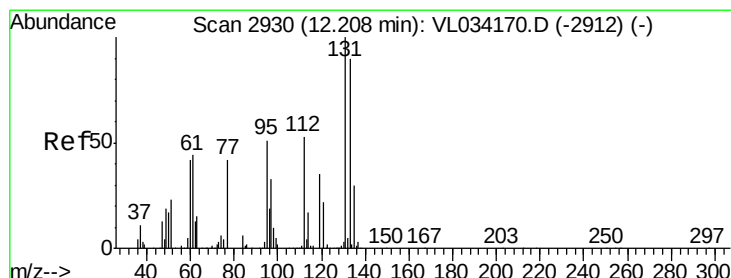
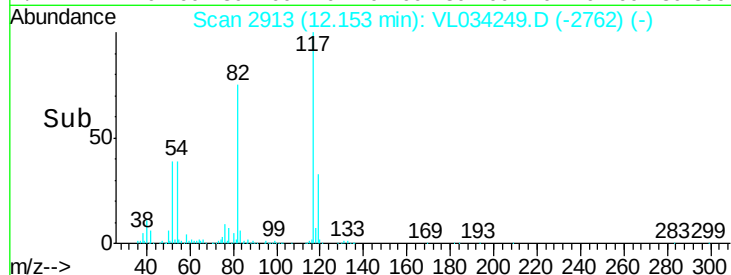
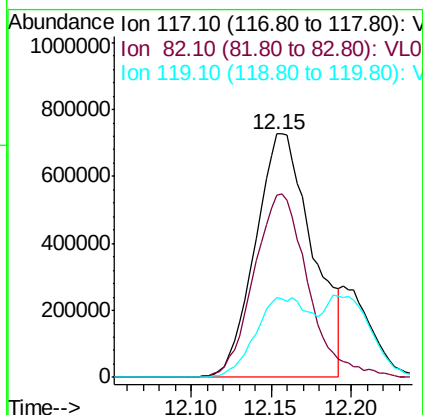
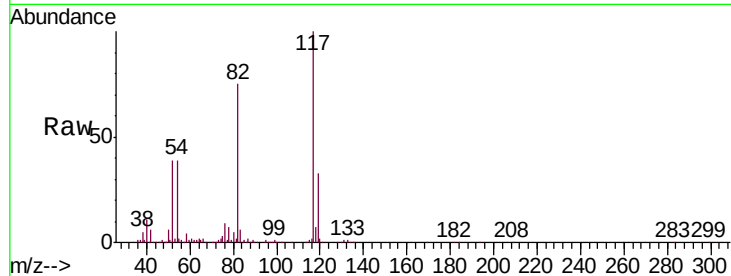




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.15 min Scan# 2913  
Delta R.T. -0.02 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

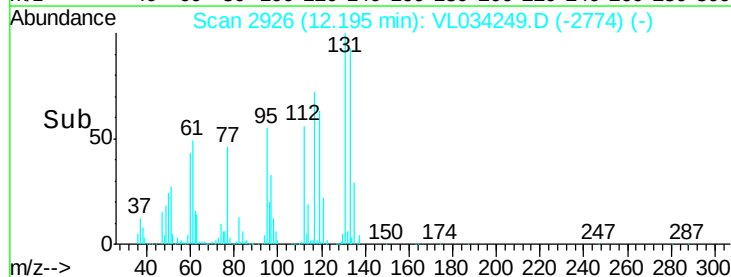
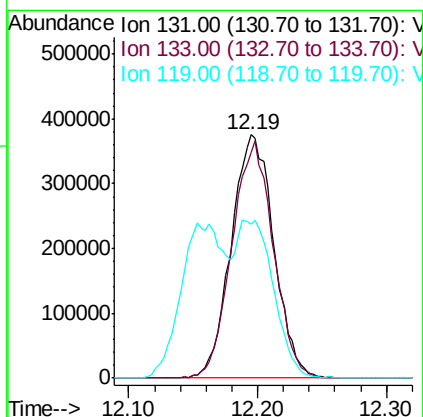
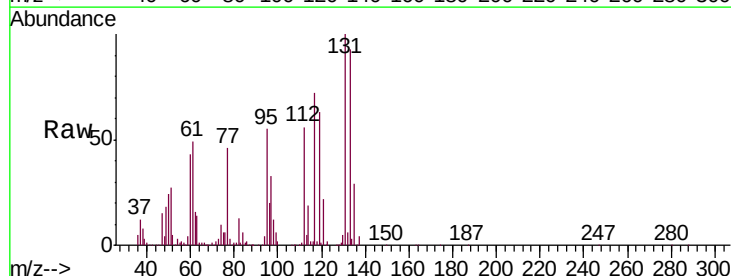
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion:117 Resp: 1804136  
Ion Ratio Lower Upper  
117 100  
82 71.3 58.2 87.4  
119 31.7 23.7 35.5

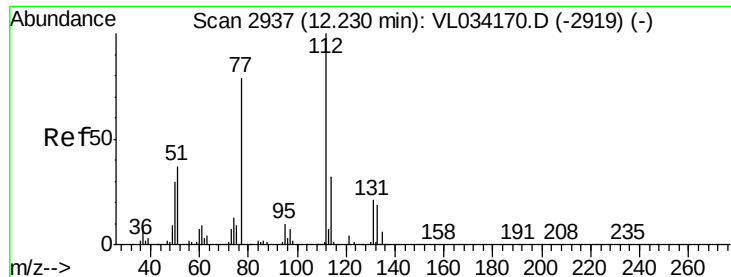


#56  
1,1,1,2-Tetrachloroethane  
Concen: 10.693 ppbv  
RT: 12.19 min Scan# 2926  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion:131 Resp: 860310  
Ion Ratio Lower Upper  
131 100  
133 94.9 75.1 112.7  
119 62.1 47.4 71.0



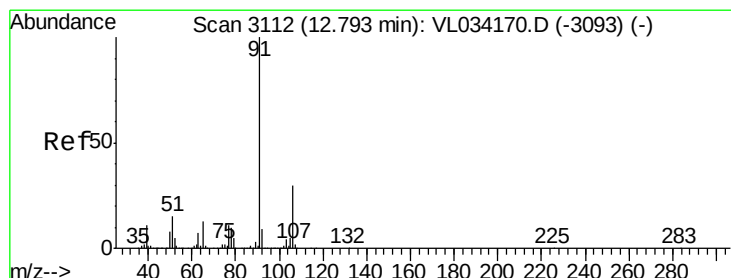
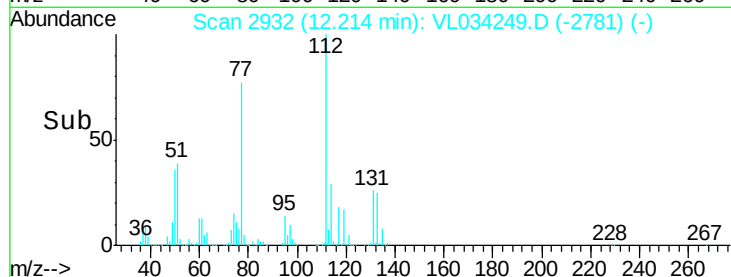
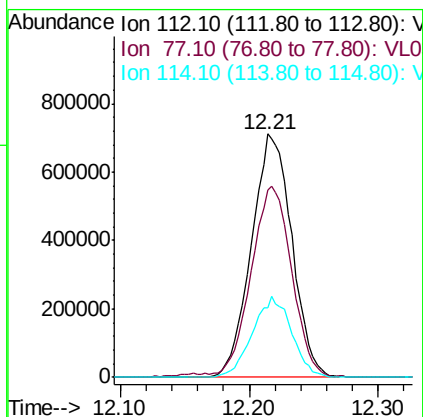
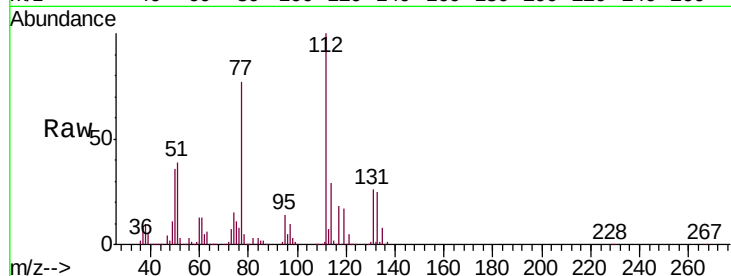




#57  
Chlorobenzene  
Concen: 9.895 ppbv  
RT: 12.21 min Scan# 2932  
Delta R.T. -0.02 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

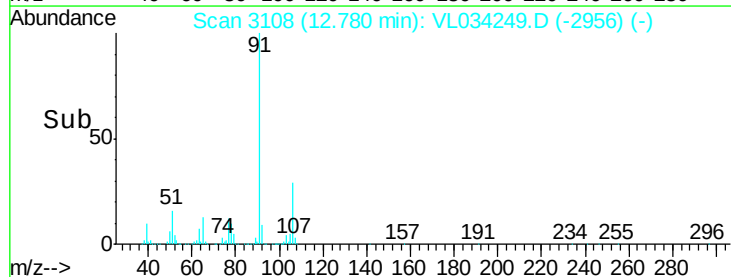
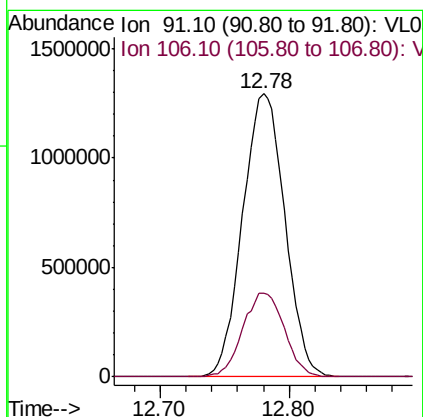
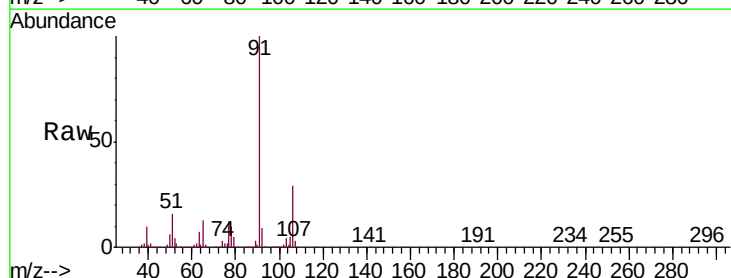
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

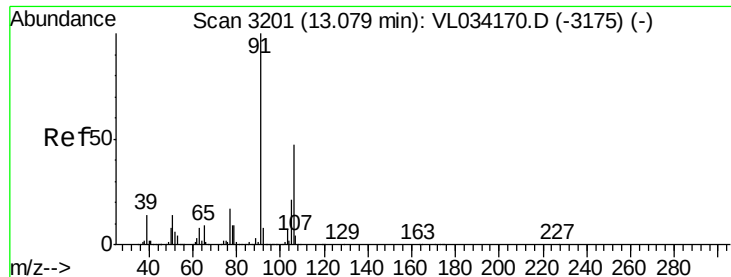
Tgt Ion: 112 Resp: 1554261  
Ion Ratio Lower Upper  
112 100  
77 76.6 64.3 96.5  
114 28.6 28.9 35.3#



#58  
Ethyl Benzene  
Concen: 10.136 ppbv  
RT: 12.78 min Scan# 3108  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 91 Resp: 2950761  
Ion Ratio Lower Upper  
91 100  
106 29.5 24.2 36.4

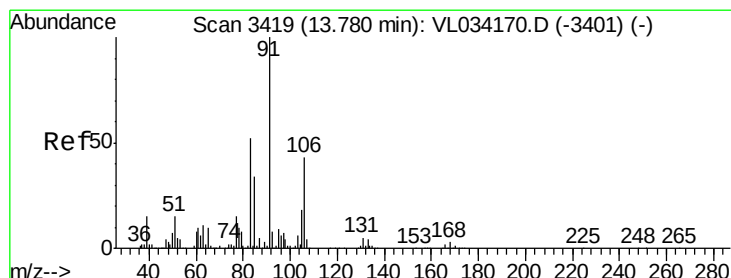
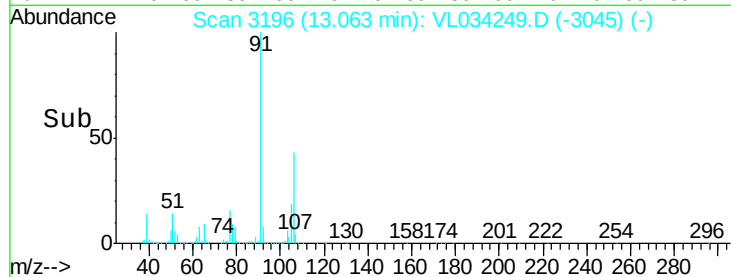
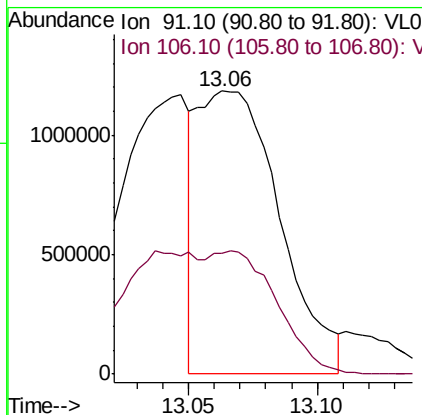
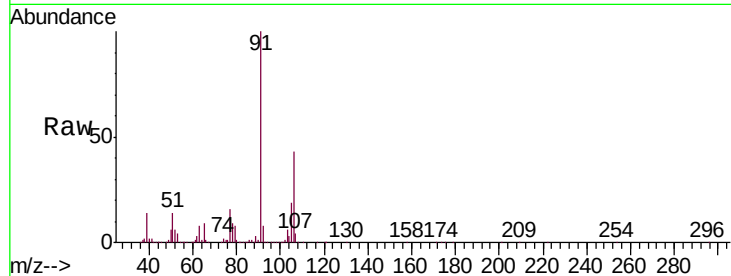




#59  
m/p-Xylene  
Concen: 10.832 ppbv  
RT: 13.06 min Scan# 3196  
Delta R.T. -0.02 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

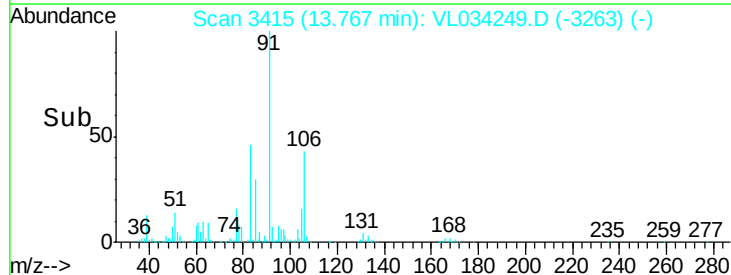
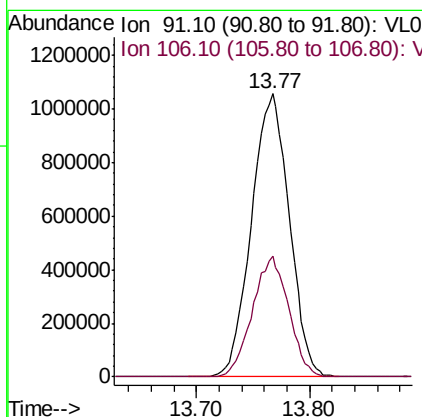
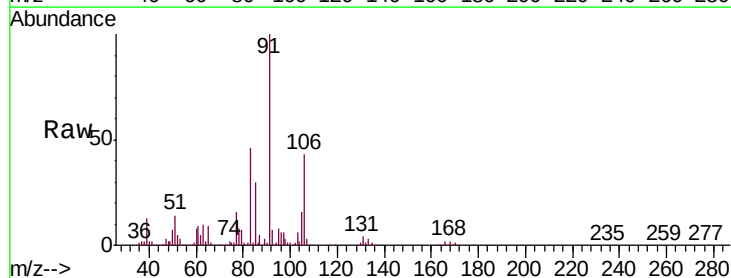
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

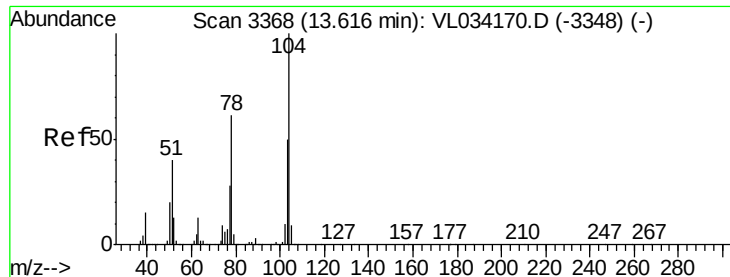
Tgt Ion: 91 Resp: 2611687  
Ion Ratio Lower Upper  
91 100  
106 79.4 35.5 53.3#



#60  
o-Xylene  
Concen: 10.168 ppbv  
RT: 13.77 min Scan# 3415  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion: 91 Resp: 2451472  
Ion Ratio Lower Upper  
91 100  
106 40.8 21.2 63.6





#61

Styrene

Concen: 10.275 ppbv

RT: 13.60 min Scan# 3363

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

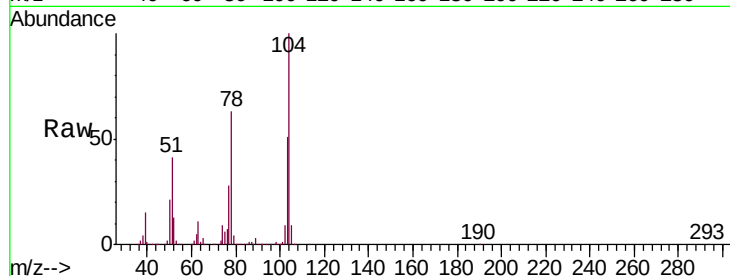
MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:104 Resp: 1774467

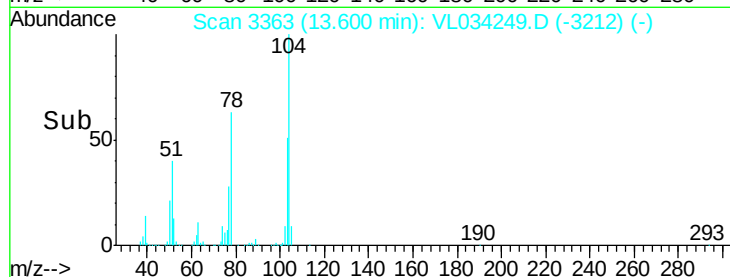
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 62.4  | 49.7  | 74.5  |
| 103 | 48.2  | 38.4  | 57.6  |



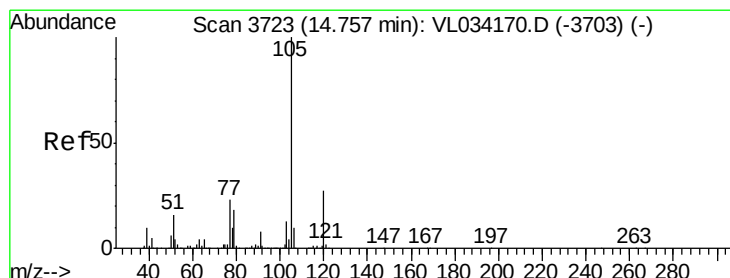
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



Time--> 13.50 13.60 13.70



#62

Isopropylbenzene

Concen: 10.003 ppbv

RT: 14.74 min Scan# 3718

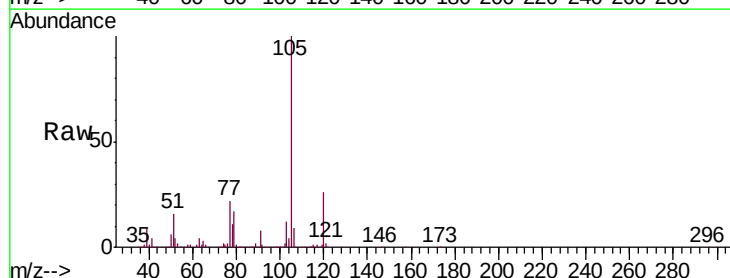
Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

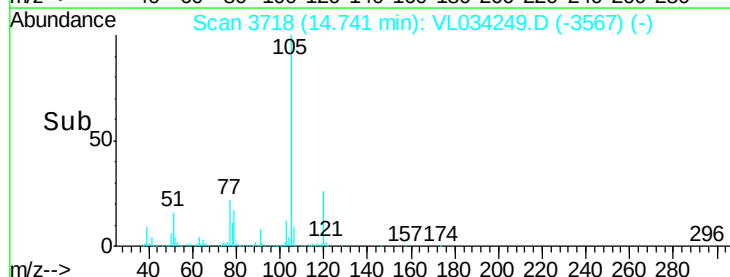
Tgt Ion:105 Resp: 3122062

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 25.0  | 20.7  | 31.1  |

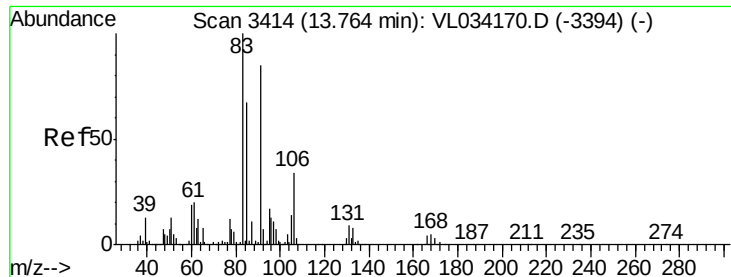


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time--> 14.70 14.80



#63

1,1,2,2-Tetrachloroethane

Concen: 8.915 ppbv

RT: 13.75 min Scan# 3411

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

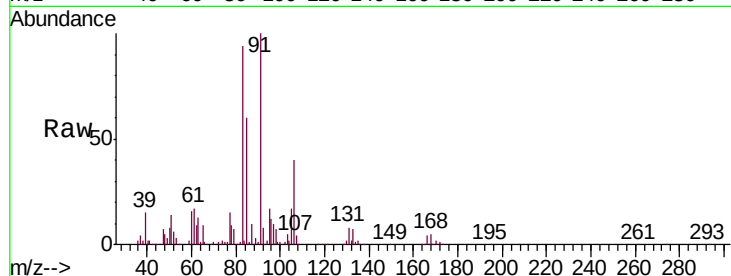
Tgt Ion: 83 Resp: 1762467

Ion Ratio Lower Upper

83 100

131 8.5 4.3 12.8

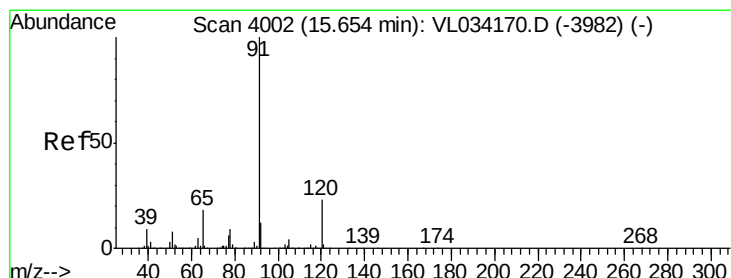
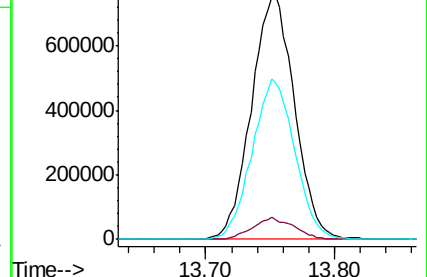
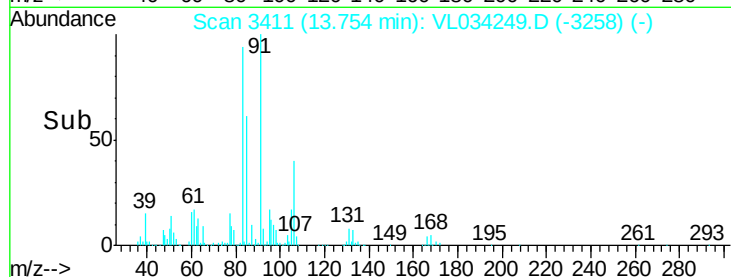
85 65.2 32.8 98.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.054 ppbv

RT: 15.64 min Scan# 3997

Delta R.T. -0.02 min

Lab File: VL034249.D

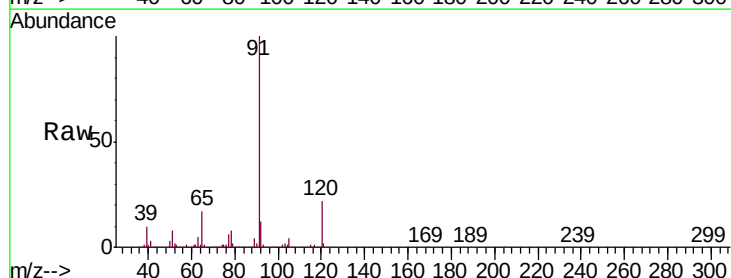
Acq: 8 Oct 2019 11:51

Tgt Ion: 120 Resp: 793849

Ion Ratio Lower Upper

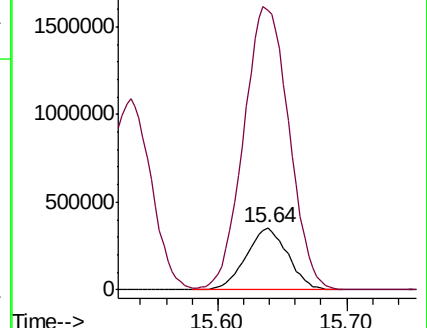
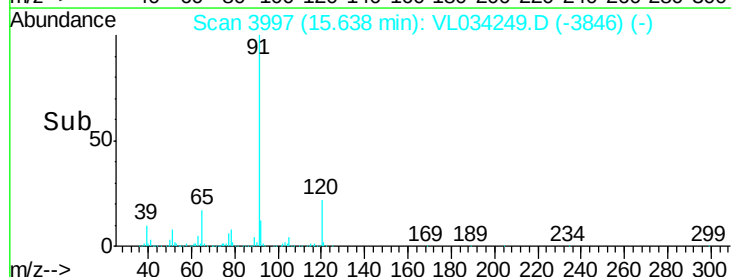
120 100

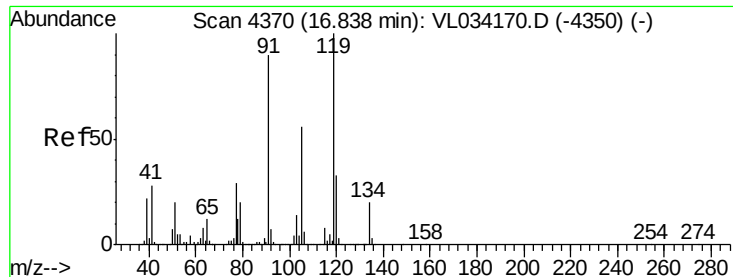
91 500.0 378.2 567.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

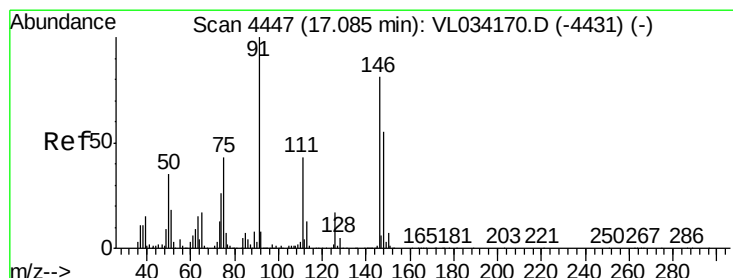
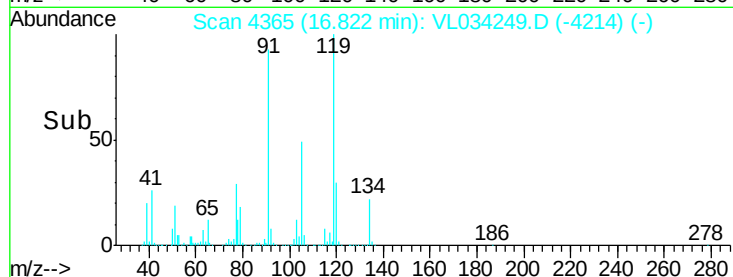
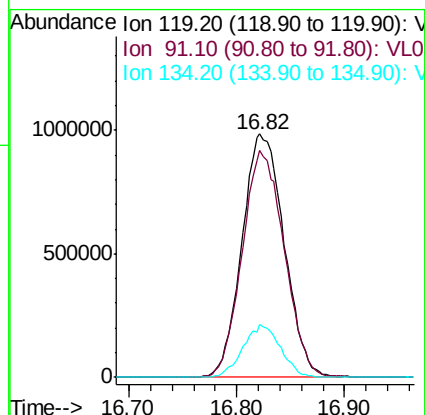
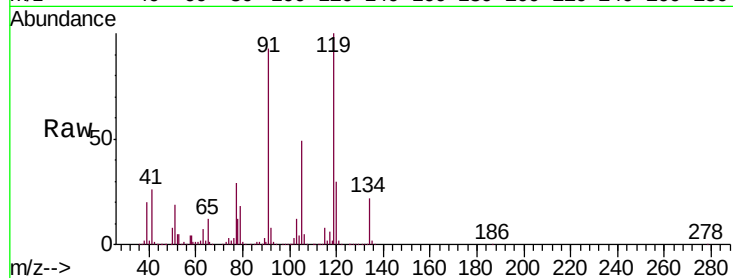




#65  
 tert-Butylbenzene  
 Concen: 9.786 ppbv  
 RT: 16.82 min Scan# 4365  
 Delta R.T. -0.02 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

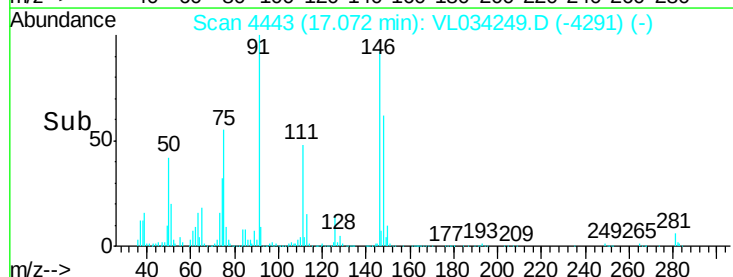
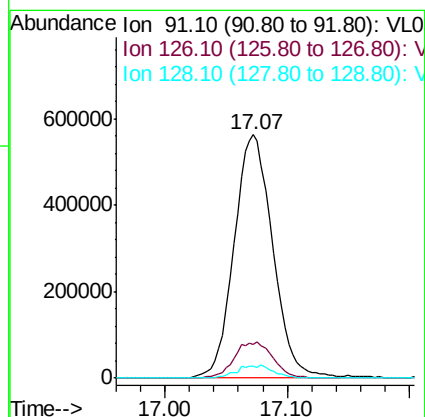
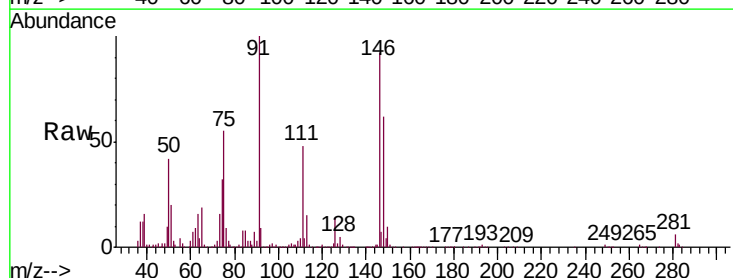
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

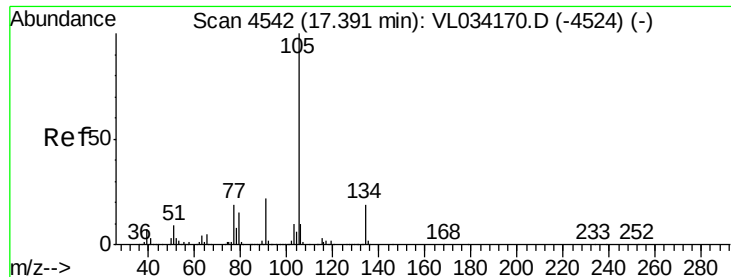
Tgt Ion: 119 Resp: 2668606  
 Ion Ratio Lower Upper  
 119 100  
 91 93.1 74.9 112.3  
 134 19.3 15.8 23.6



#66  
 Benzyl Chloride  
 Concen: 12.648 ppbv  
 RT: 17.07 min Scan# 4443  
 Delta R.T. -0.01 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 91 Resp: 1220289  
 Ion Ratio Lower Upper  
 91 100  
 126 15.1 12.6 19.0  
 128 5.0 4.0 6.0





#67

sec-Butylbenzene

Concen: 9.874 ppbv

RT: 17.37 min Scan# 4537

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

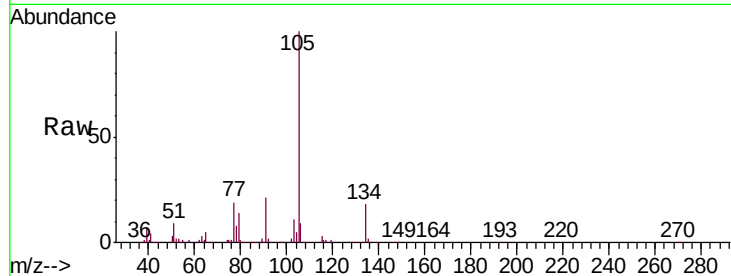
VSTDCCC010EC

Tgt Ion:105 Resp: 3850511

Ion Ratio Lower Upper

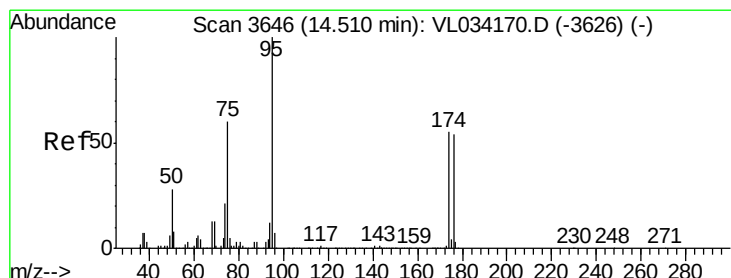
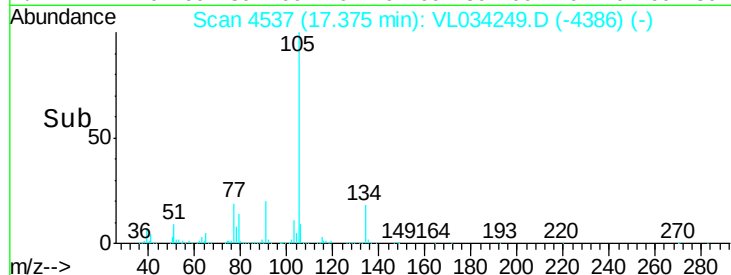
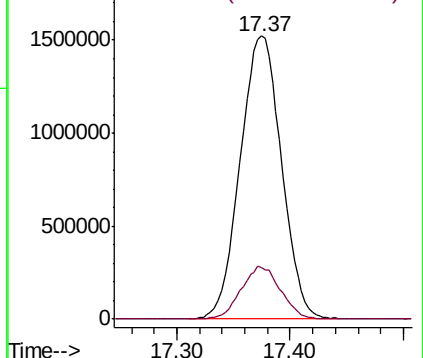
105 100

134 17.7 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.403 ppbv

RT: 14.49 min Scan# 3641

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

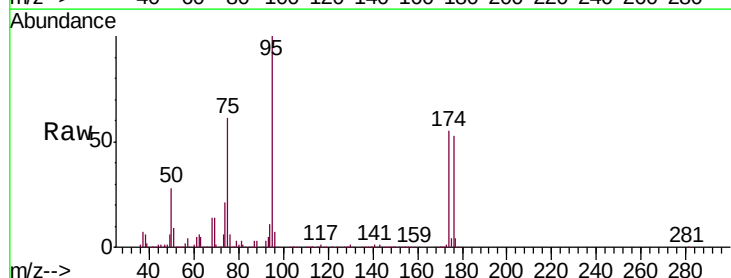
Tgt Ion: 95 Resp: 1474034

Ion Ratio Lower Upper

95 100

174 56.4 45.1 67.7

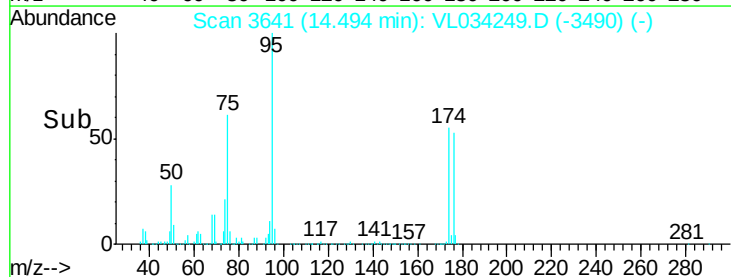
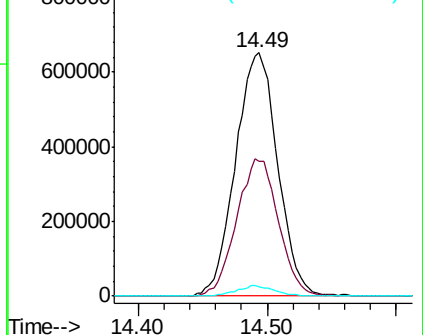
175 4.0 3.3 4.9

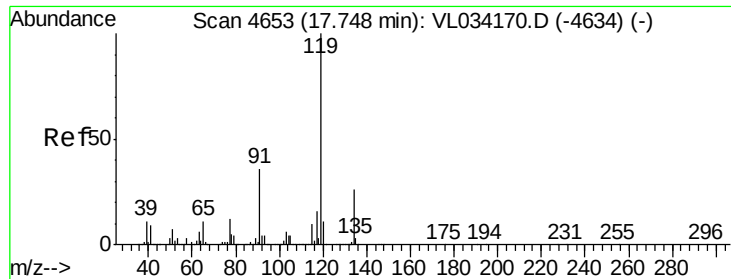


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

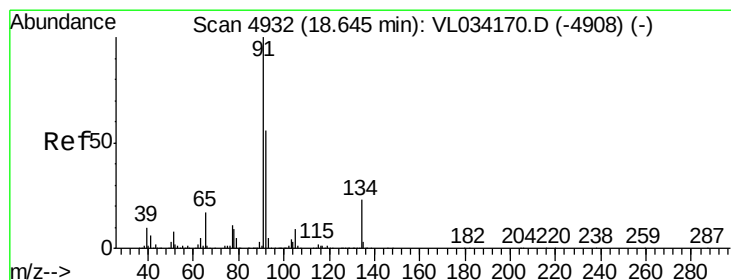
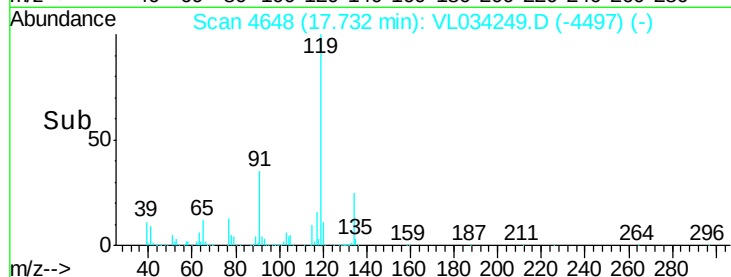
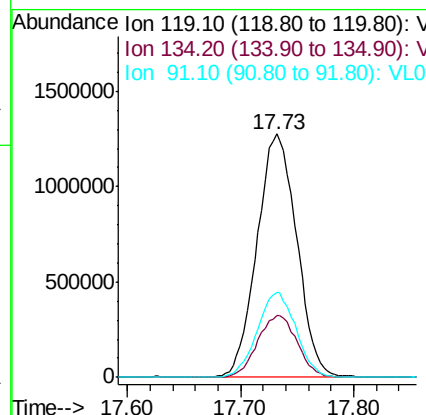
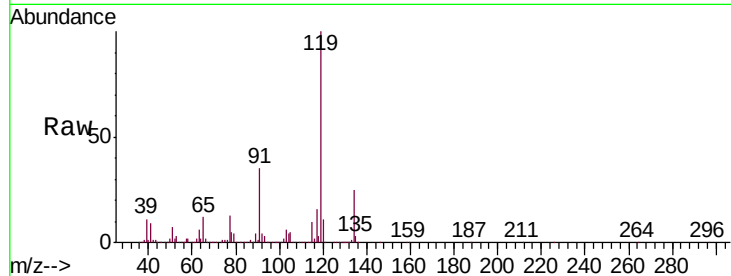




#69  
 p-Isopropyltoluene  
 Concen: 9.847 ppbv  
 RT: 17.73 min Scan# 4648  
 Delta R.T. -0.02 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

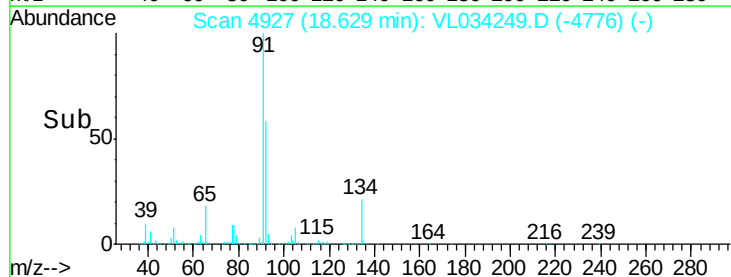
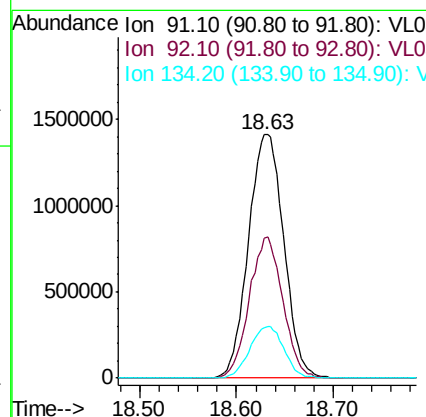
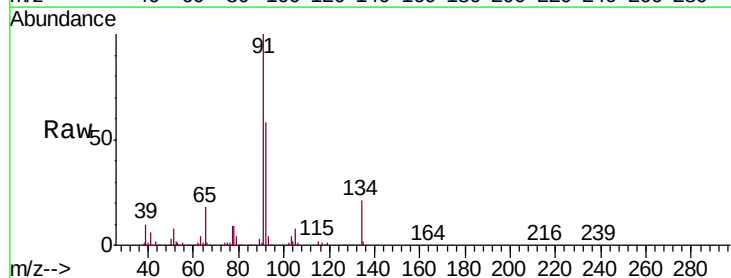
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

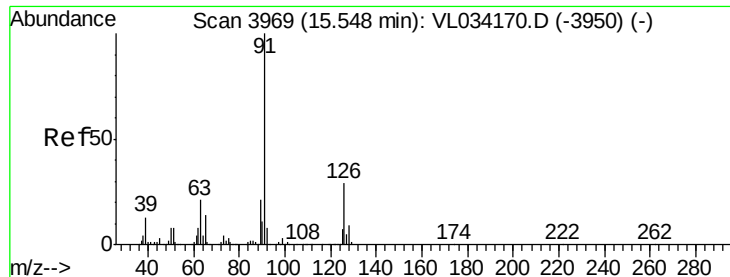
Tgt Ion: 119 Resp: 3109463  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 20.6 30.8  
 91 34.3 27.6 41.4



#70  
 n-Butylbenzene  
 Concen: 9.739 ppbv  
 RT: 18.63 min Scan# 4927  
 Delta R.T. -0.02 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion: 91 Resp: 3580673  
 Ion Ratio Lower Upper  
 91 100  
 92 54.9 44.8 67.2  
 134 20.6 17.3 25.9





#71

2-Chlorotoluene

Concen: 9.973 ppbv

RT: 15.53 min Scan# 3964

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

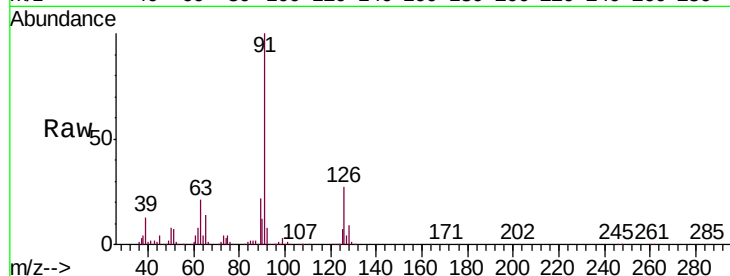
VSTDCCC010EC

Tgt Ion: 91 Resp: 2543269

Ion Ratio Lower Upper

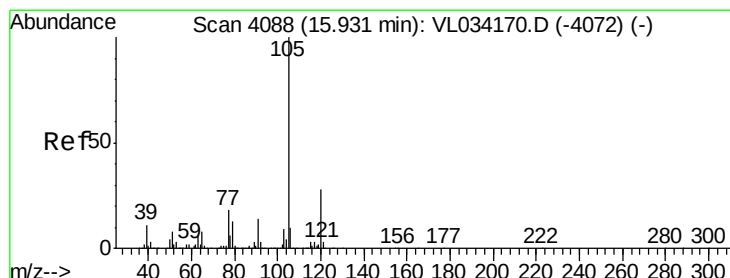
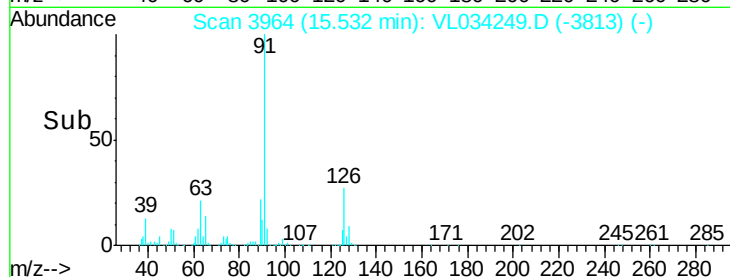
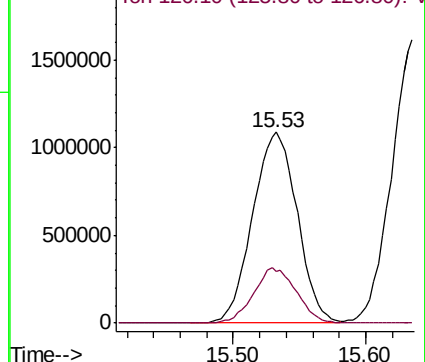
91 100

126 27.9 11.2 45.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.091 ppbv

RT: 15.92 min Scan# 4084

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Tgt Ion: 105 Resp: 2748812

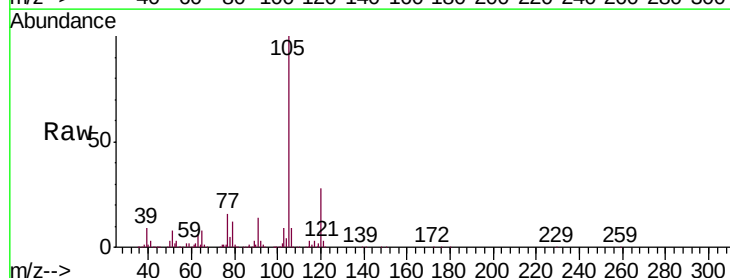
Ion Ratio Lower Upper

105 100

120 28.3 23.3 34.9

91 14.3 11.4 17.2

77 16.6 13.3 19.9

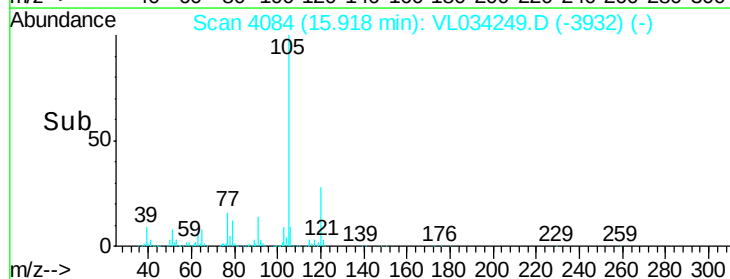
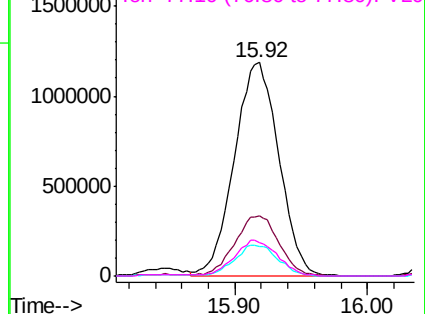


Abundance Ion 105.10 (104.80 to 105.80): V

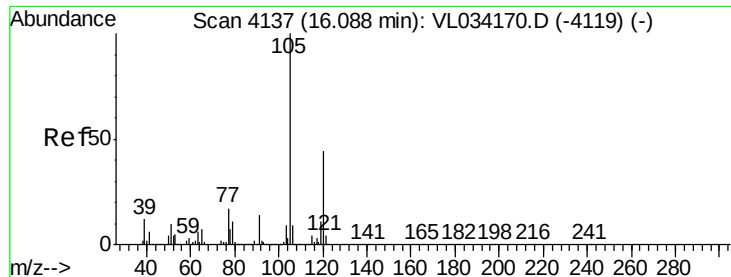
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#73

1,3,5-Trimethylbenzene

Concen: 10.022 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

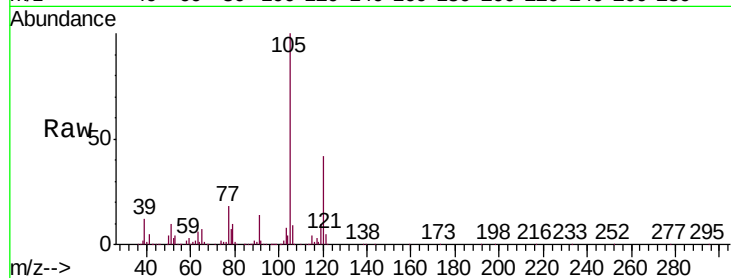
VSTDCCC010EC

Tgt Ion:105 Resp: 2637280

Ion Ratio Lower Upper

105 100

120 42.1 35.6 53.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.08

1200000

1000000

800000

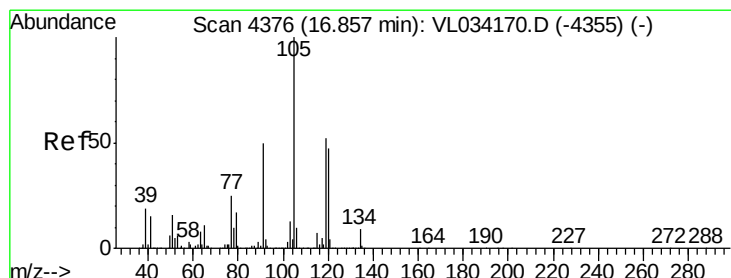
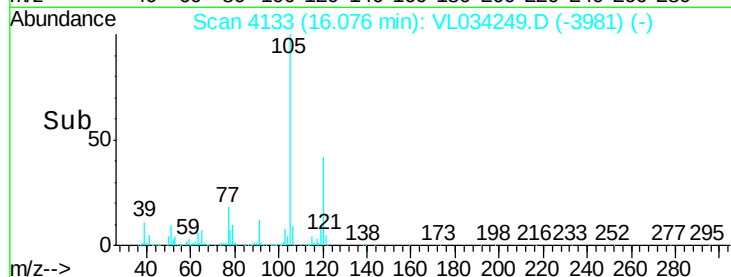
600000

400000

200000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.569 ppbv

RT: 16.84 min Scan# 4372

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Tgt Ion:105 Resp: 2673619

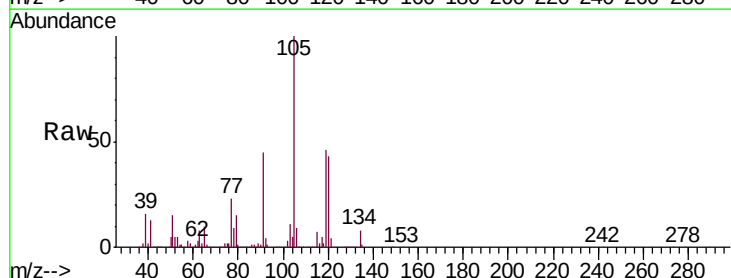
Ion Ratio Lower Upper

105 100

120 43.3 37.5 56.3

91 45.3 41.1 61.7

77 22.7 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

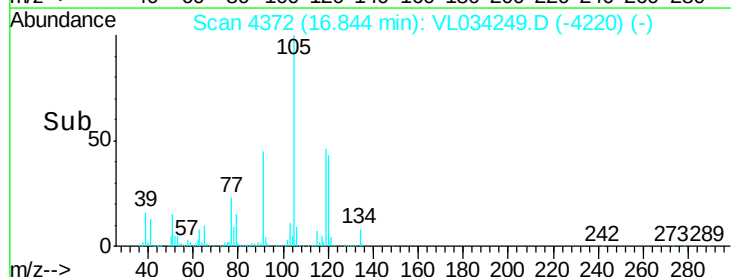
1500000

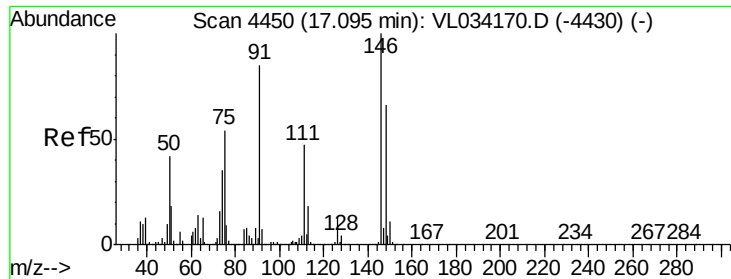
1000000

500000

0

Time-->

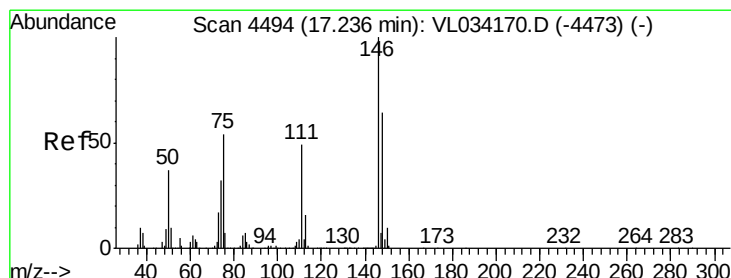
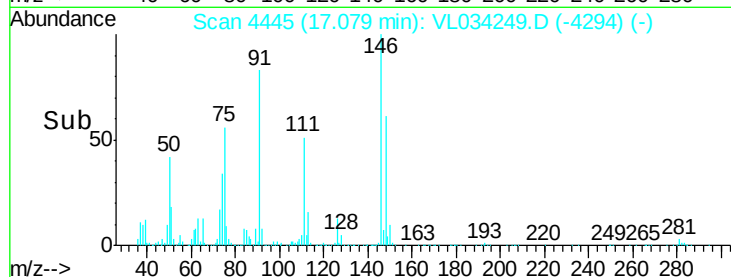
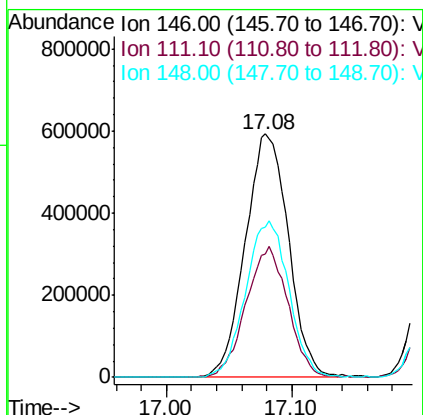
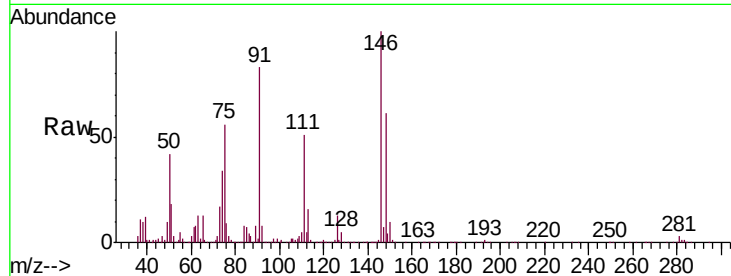




#75  
 1,3-Dichlorobenzene  
 Concen: 9.479 ppbv  
 RT: 17.08 min Scan# 4445  
 Delta R.T. -0.02 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

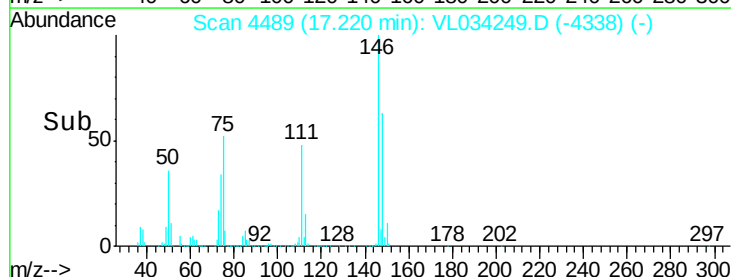
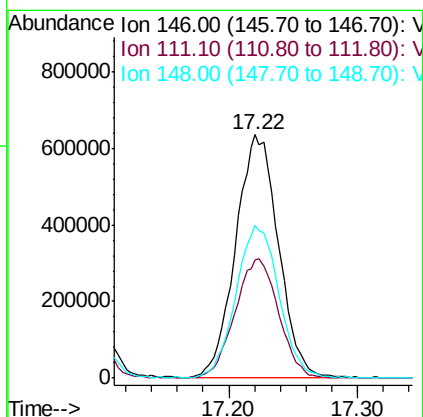
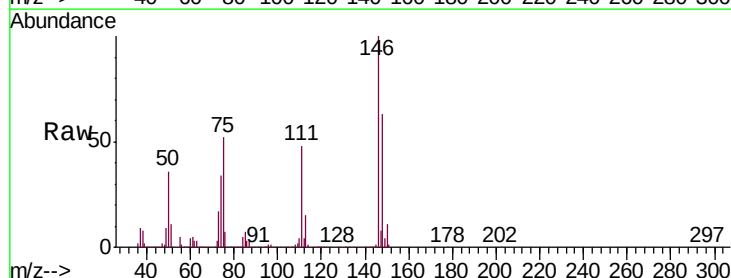
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

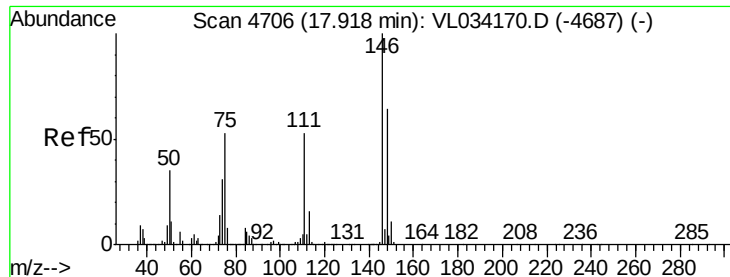
Tgt Ion:146 Resp: 1420999  
 Ion Ratio Lower Upper  
 146 100  
 111 52.2 25.9 77.8  
 148 64.4 32.6 97.7



#76  
 1,4-Dichlorobenzene  
 Concen: 9.494 ppbv  
 RT: 17.22 min Scan# 4489  
 Delta R.T. -0.02 min  
 Lab File: VL034249.D  
 Acq: 8 Oct 2019 11:51

Tgt Ion:146 Resp: 1457541  
 Ion Ratio Lower Upper  
 146 100  
 111 50.3 24.6 74.0  
 148 63.8 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 9.187 ppbv

RT: 17.91 min Scan# 4702

Delta R.T. -0.01 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

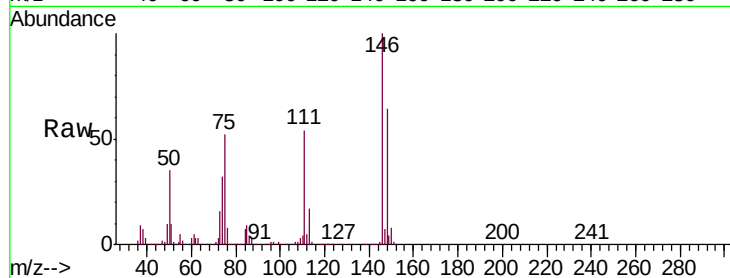
Tgt Ion:146 Resp: 1393950

Ion Ratio Lower Upper

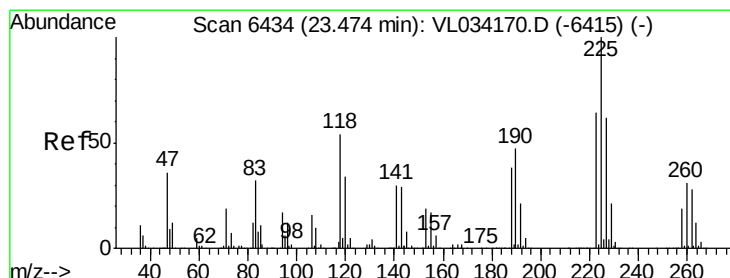
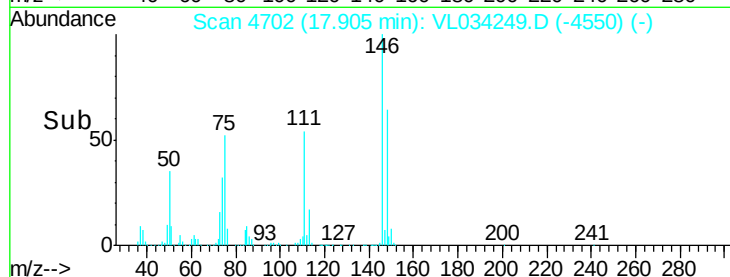
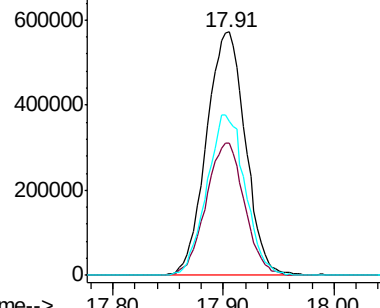
146 100

111 54.1 26.1 78.3

148 65.5 31.9 95.9



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



#78

Hexachloro-1,3-Butadiene

Concen: 10.776 ppbv

RT: 23.46 min Scan# 6429

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

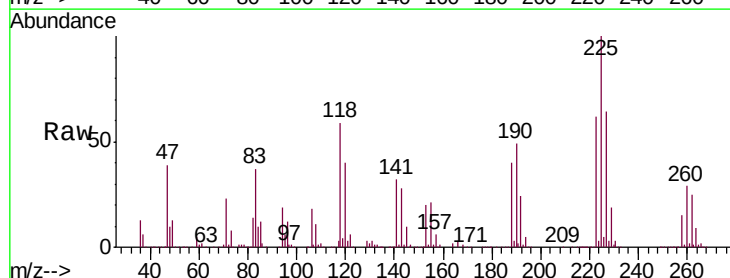
Tgt Ion:225 Resp: 1082998

Ion Ratio Lower Upper

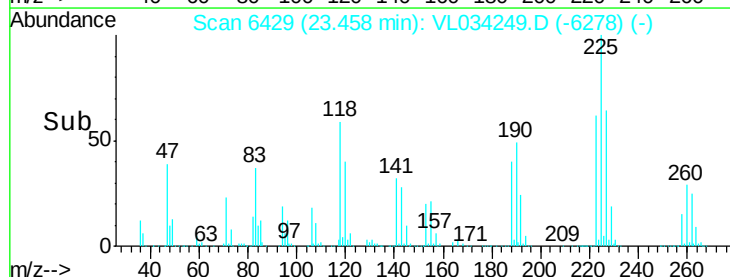
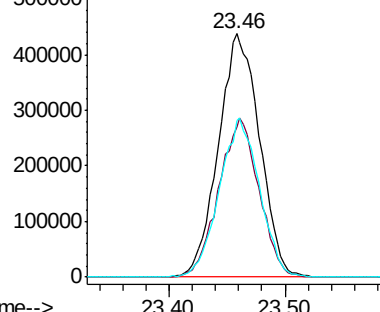
225 100

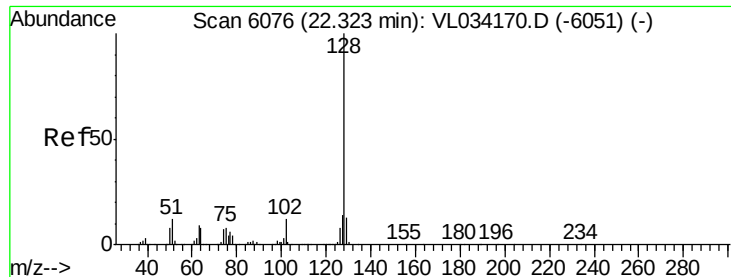
223 63.5 51.7 77.5

227 63.6 52.1 78.1



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V

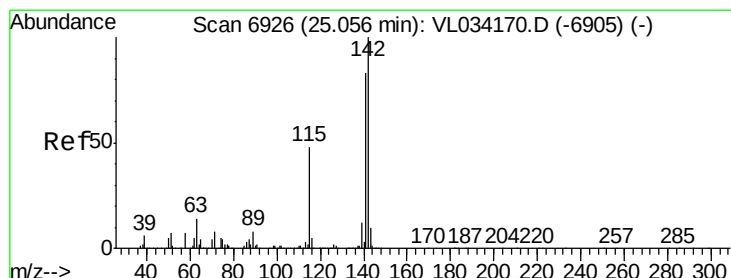
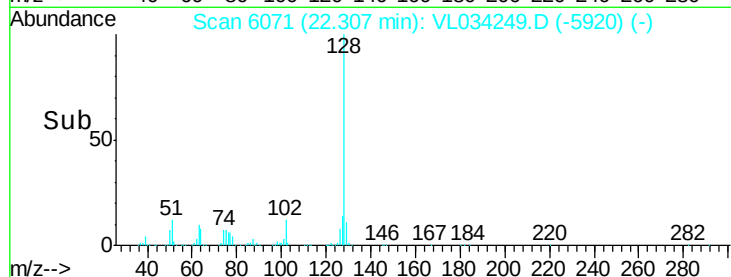
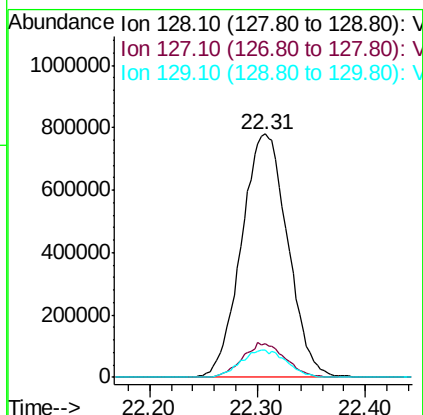
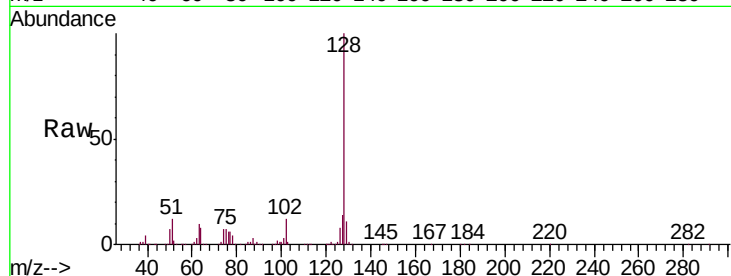




#79  
Naphthalene  
Concen: 9.438 ppbv  
RT: 22.31 min Scan# 6071  
Delta R.T. -0.02 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

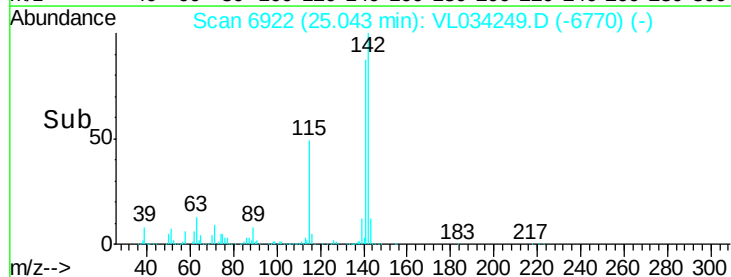
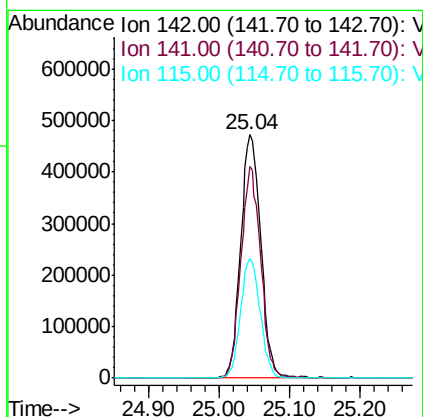
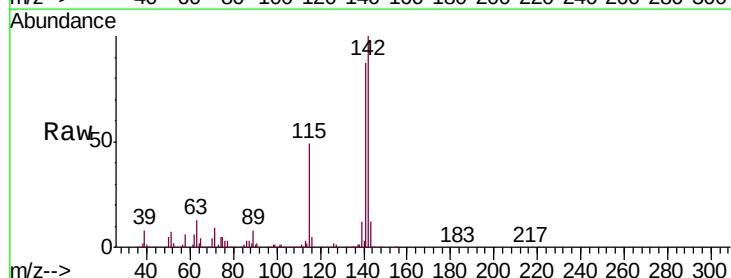
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

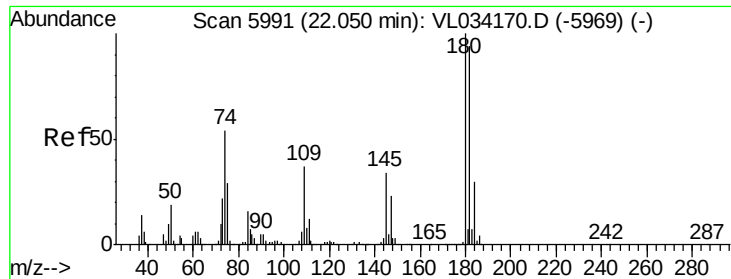
Tgt Ion:128 Resp: 2321647  
Ion Ratio Lower Upper  
128 100  
127 14.0 11.1 16.7  
129 11.1 10.2 15.4



#80  
Naphthalene, 2-methyl-  
Concen: 8.211 ppbv  
RT: 25.04 min Scan# 6922  
Delta R.T. -0.01 min  
Lab File: VL034249.D  
Acq: 8 Oct 2019 11:51

Tgt Ion:142 Resp: 939306  
Ion Ratio Lower Upper  
142 100  
141 85.0 67.6 101.4  
115 47.9 36.9 55.3





#81

1,2,4-Trichlorobenzene

Concen: 9.395 ppbv

RT: 22.03 min Scan# 5986

Delta R.T. -0.02 min

Lab File: VL034249.D

Acq: 8 Oct 2019 11:51

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

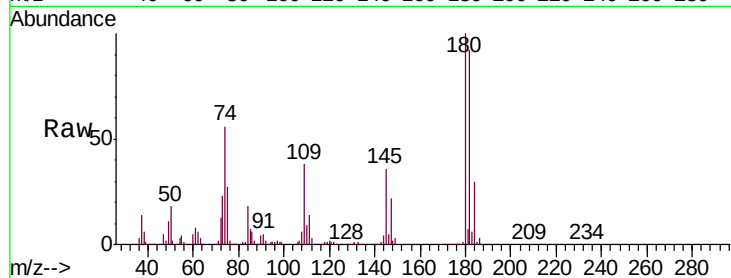
Tgt Ion:180 Resp: 1280184

Ion Ratio Lower Upper

180 100

182 94.6 77.4 116.2

184 30.8 25.0 37.4



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

