

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\  
 Data File : VL035239.D  
 Acq On : 29 Jul 2020 6:34  
 Operator : SY/AP  
 Sample : VSTDIC015  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 29 07:08:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 29 03:31:38 2020  
 QLast Update : Wed Jul 29 03:31:38 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1499343  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 3580892  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 3791698  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 2802055  | 9.08     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 90.80% |

| Target Compounds               |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 3.01 | 85  | 1924970 | 9.335  | ppbv 98  |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 2048592 | 12.337 | ppbv 99  |
| 4) Chloromethane               | 3.10 | 50  | 1210621 | 12.918 | ppbv 98  |
| 5) Vinyl Chloride              | 3.21 | 62  | 1218595 | 12.155 | ppbv 98  |
| 6) Bromomethane                | 3.44 | 94  | 778603  | 13.679 | ppbv 99  |
| 7) Chloroethane                | 3.52 | 64  | 474551  | 13.381 | ppbv 100 |
| 8) Dichlorotetrafluoroethane   | 3.15 | 85  | 2520523 | 10.894 | ppbv 98  |
| 9) Propene                     | 2.97 | 41  | 844904  | 13.590 | ppbv 100 |
| 10) Heptane                    | 8.14 | 43  | 2488757 | 15.410 | ppbv 100 |
| 11) Trichlorofluoromethane     | 3.92 | 101 | 2950089 | 12.348 | ppbv 100 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 2106888 | 12.551 | ppbv 98  |
| 13) Ethanol                    | 3.57 | 45  | 215659  | 10.562 | ppbv 95  |
| 14) Bromoethene                | 3.71 | 108 | 962091  | 13.954 | ppbv 99  |
| 15) Acetone                    | 3.82 | 43  | 2279654 | 11.183 | ppbv 100 |
| 16) 1,3-Butadiene              | 3.29 | 39  | 1117826 | 14.314 | ppbv 99  |
| 17) tert-Butyl alcohol         | 4.27 | 59  | 2511198 | 13.799 | ppbv 99  |
| 18) 1,1-Dichloroethene         | 4.26 | 96  | 992120  | 13.333 | ppbv 98  |
| 19) Isopropyl Alcohol          | 3.94 | 45  | 1661135 | 13.369 | ppbv 100 |
| 20) Methylene Chloride         | 4.32 | 84  | 910755  | 10.221 | ppbv 98  |
| 21) Allyl Chloride             | 4.39 | 41  | 1594311 | 13.433 | ppbv 100 |
| 22) trans-1,2-Dichloroethene   | 4.87 | 96  | 960230  | 12.998 | ppbv 95  |
| 23) Vinyl Acetate              | 5.06 | 43  | 3005548 | 13.793 | ppbv 99  |
| 24) 1,1-Dichloroethane         | 5.00 | 63  | 2450315 | 12.950 | ppbv 99  |
| 25) Ethyl Acetate              | 5.67 | 43  | 4249880 | 13.460 | ppbv 99  |
| 26) Hexane                     | 5.68 | 57  | 1947923 | 13.960 | ppbv 99  |
| 27) Carbon Disulfide           | 4.53 | 76  | 2632610 | 13.566 | ppbv 100 |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 2910751 | 13.744 | ppbv 100 |
| 29) Chloroform                 | 5.75 | 83  | 3042119 | 12.977 | ppbv 96  |
| 30) Cyclohexane                | 7.14 | 84  | 1644310 | 15.954 | ppbv 99  |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61  | 1941069 | 14.802 | ppbv 99  |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 3013181 | 12.855 | ppbv 99  |
| 34) 2-Butanone                 | 5.23 | 43  | 2627731 | 13.759 | ppbv 100 |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 3140333 | 13.425 | ppbv 98  |
| 36) Benzene                    | 6.90 | 78  | 3771960 | 14.539 | ppbv 99  |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 2389333 | 13.640 | ppbv 100 |
| 38) Trichloroethene            | 7.85 | 130 | 1576369 | 14.820 | ppbv 96  |
| 39) 1,2-Dichloropropane        | 7.63 | 63  | 1508658 | 14.536 | ppbv 96  |
| 40) 1,4-Dioxane                | 7.84 | 88  | 590227  | 14.267 | ppbv # 1 |
| 41) Tetrahydrofuran            | 6.04 | 42  | 1467450 | 15.439 | ppbv 99  |
| 42) Bromodichloromethane       | 7.81 | 83  | 3310422 | 14.152 | ppbv 100 |
| 43) Methyl Methacrylate        | 8.03 | 69  | 1813726 | 16.428 | ppbv 99  |

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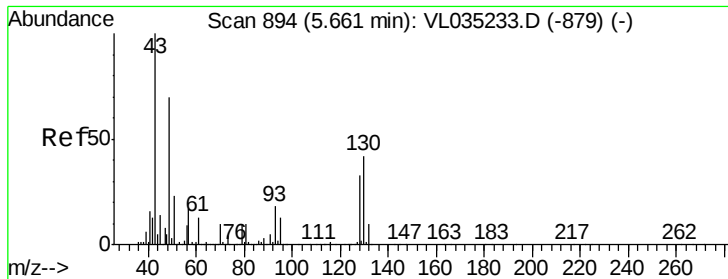
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 29 07:08:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 29 03:31:38 2020  
 QLast Update : Wed Jul 29 03:31:38 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 6440838  | 14.325 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 2054488  | 17.788 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 2391841  | 17.405 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.50  | 97   | 1676583  | 14.713 | ppbv   | 96       |
| 48) Dibromochloromethane      | 10.34 | 129  | 2849985  | 15.392 | ppbv   | 99       |
| 49) Bromoform                 | 13.09 | 173  | 2607644  | 15.950 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 4161801  | 15.134 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.16 | 43   | 3418263  | 16.235 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.26 | 164  | 1424577  | 14.593 | ppbv   | 94       |
| 53) Toluene                   | 9.83  | 91   | 4492585  | 16.335 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.65 | 107  | 2549650  | 15.090 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.17 | 131  | 2158428  | 12.673 | ppbv   | 98       |
| 57) Chlorobenzene             | 12.19 | 112  | 3558375  | 12.537 | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.75 | 91   | 6077426  | 14.335 | ppbv   | 95       |
| 59) m/p-Xylene                | 13.03 | 91   | 5154129  | 13.599 | ppbv # | 29       |
| 60) o-Xylene                  | 13.73 | 91   | 5168603  | 13.668 | ppbv   | 99       |
| 61) Styrene                   | 13.57 | 104  | 3759763  | 16.100 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.71 | 105  | 7397840  | 13.195 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.72 | 83   | 3771546  | 11.939 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.61 | 120  | 2107150  | 14.518 | ppbv   | 88       |
| 65) tert-Butylbenzene         | 16.80 | 119  | 6654544  | 13.221 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.04 | 91   | 1754359  | 9.677  | ppbv # | 76       |
| 67) sec-Butylbenzene          | 17.34 | 105  | 9248837  | 12.616 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 17.70 | 119  | 7858743  | 13.575 | ppbv   | 97       |
| 70) n-Butylbenzene            | 18.60 | 91   | 8341122  | 13.586 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 15.50 | 91   | 5954889  | 14.030 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.89 | 105  | 6100780  | 14.272 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.04 | 105  | 5758523  | 14.001 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.82 | 105  | 5973640  | 13.079 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.05 | 146  | 3620239  | 12.469 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.19 | 146  | 3640361  | 13.507 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.87 | 146  | 3521848  | 13.448 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.43 | 225  | 2499723  | 12.183 | ppbv   | 100      |
| 79) Naphthalene               | 22.27 | 128  | 5793985  | 19.082 | ppbv   | 98       |
| 80) Naphthalene, 2-methyl-    | 25.02 | 142  | 2274146  | 31.437 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.00 | 180  | 3187612  | 16.638 | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

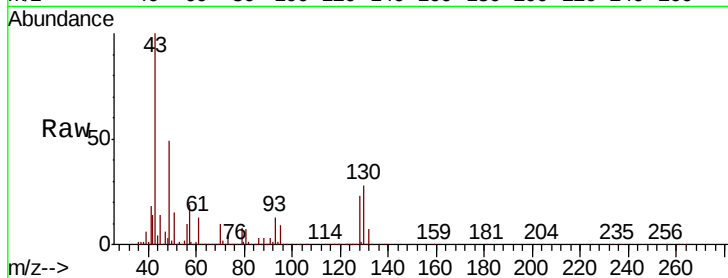
Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 49 Resp: 1499343

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 47.1  | 24.0  | 72.0  |
| 130 | 60.2  | 30.7  | 92.1  |



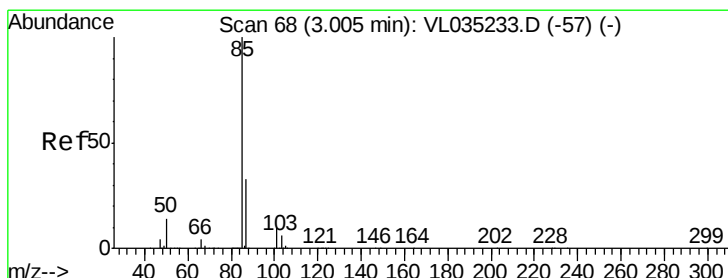
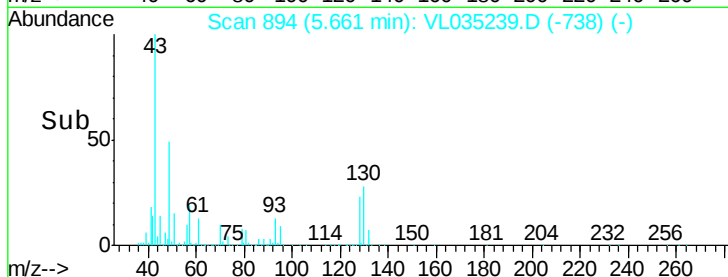
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 9.335 ppbv

RT: 3.01 min Scan# 68

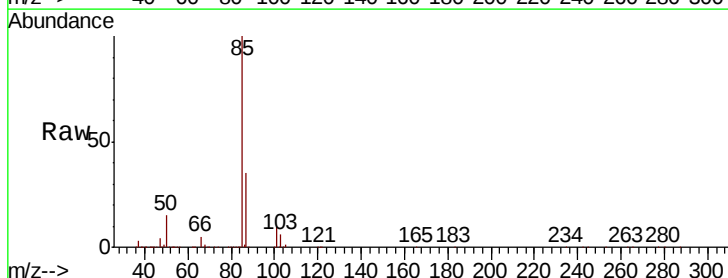
Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 85 Resp: 1924970

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 34.5  | 26.7  | 40.1  |

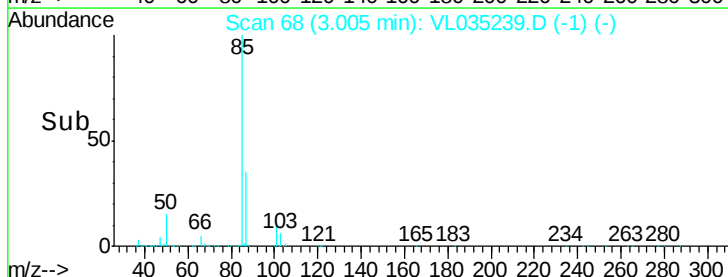


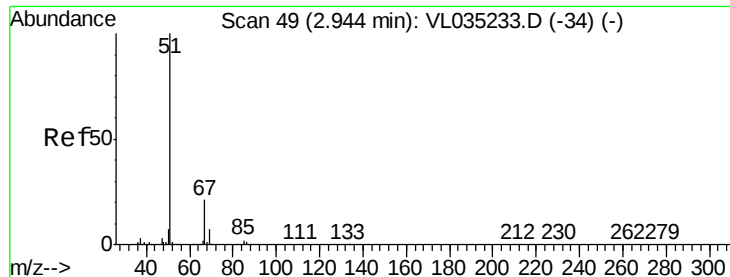
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->

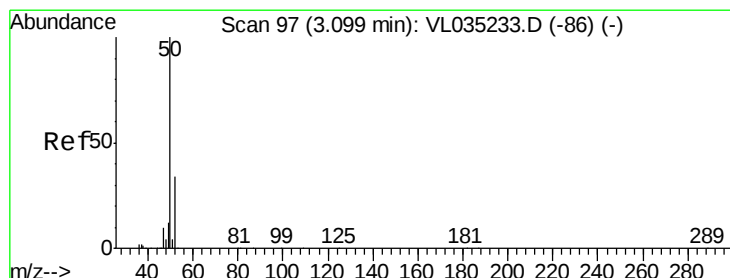
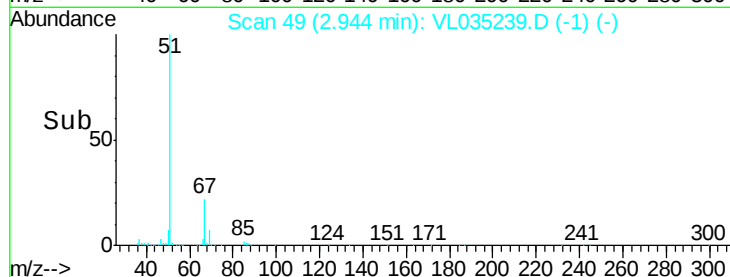
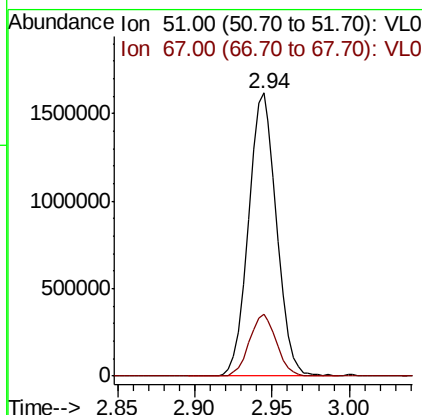
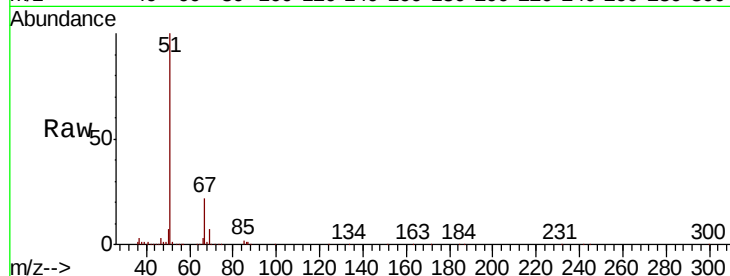




#3  
Chlorodifluoromethane  
Concen: 12.337 ppbv  
RT: 2.94 min Scan# 49  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

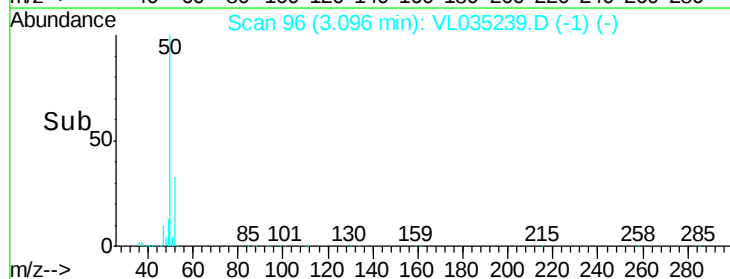
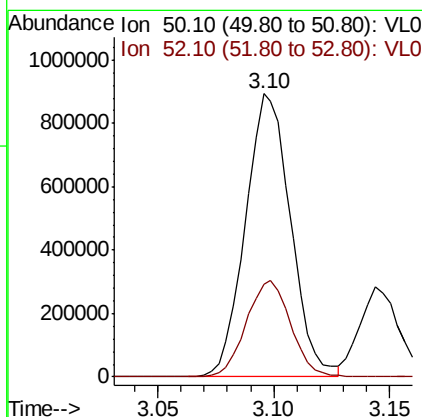
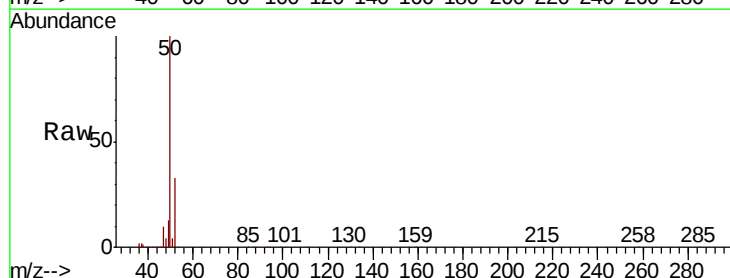
Instrument :  
MSVOA\_L  
ClientSampleId :

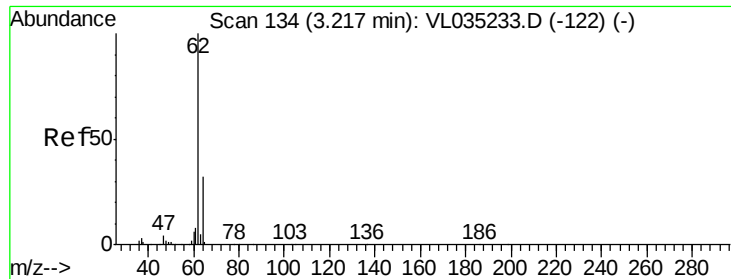
Tot Ion: 51 Resp: 2048592  
Ion Ratio Lower Upper  
51 100  
67 21.4 16.6 25.0



#4  
Chloromethane  
Concen: 12.918 ppbv  
RT: 3.10 min Scan# 96  
Delta R.T. -0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 50 Resp: 1210621  
Ion Ratio Lower Upper  
50 100  
52 32.7 27.1 40.7





#5

Vinyl Chloride

Concen: 12.155 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

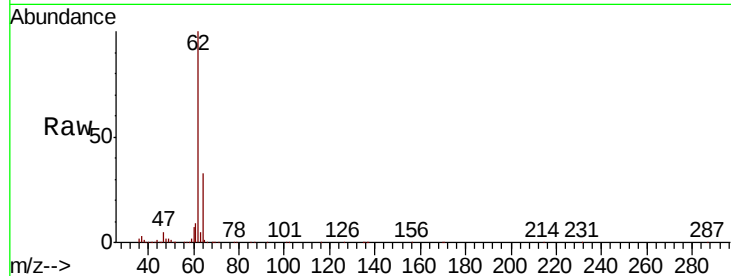
ClientSampleId :

Tot Ion: 62 Resp: 1218595

Ion Ratio Lower Upper

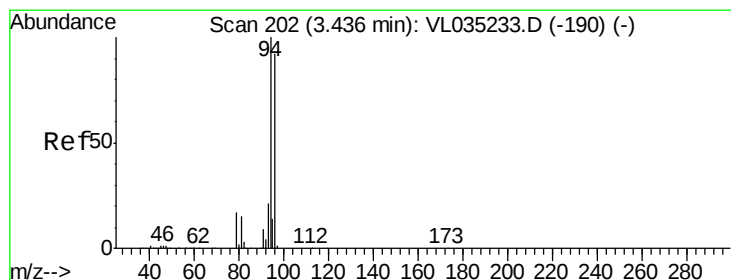
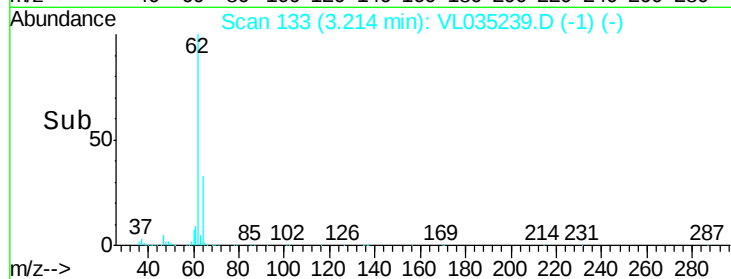
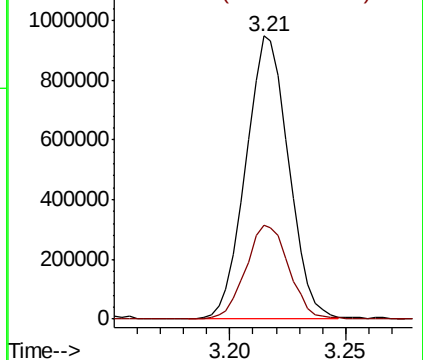
62 100

64 33.3 25.8 38.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.679 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035239.D

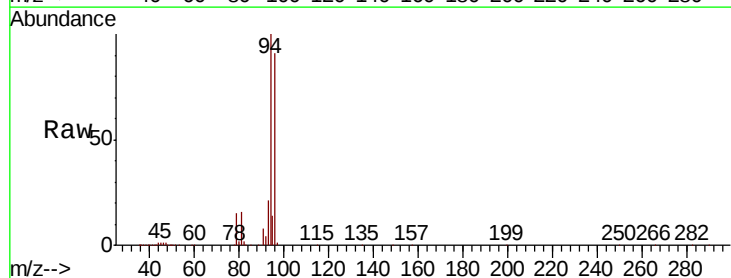
Acq: 29 Jul 2020 6:34

Tgt Ion: 94 Resp: 778603

Ion Ratio Lower Upper

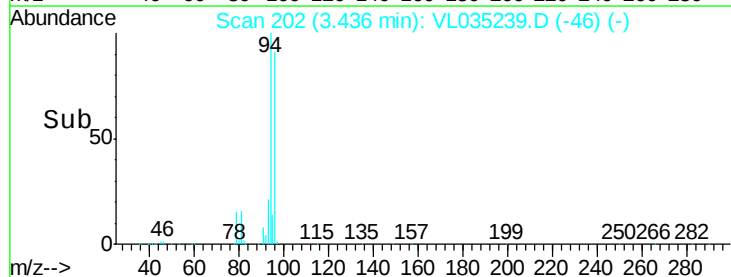
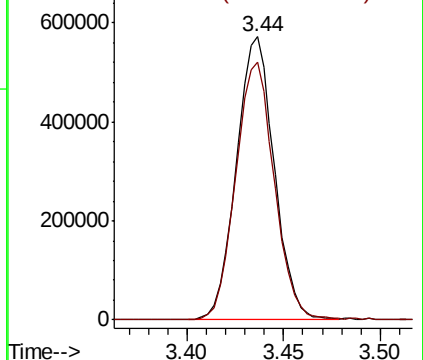
94 100

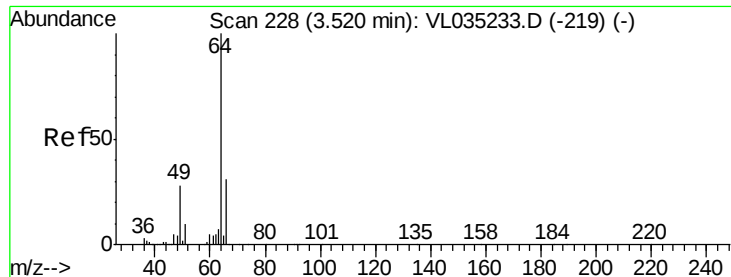
96 90.8 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.381 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

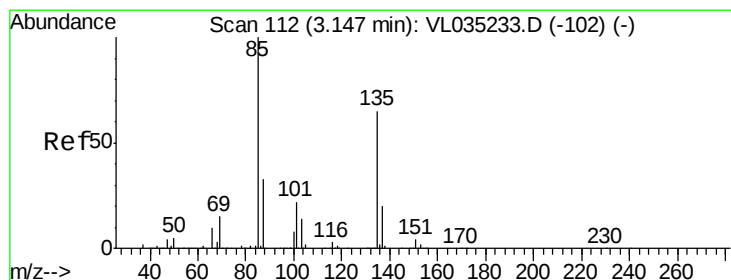
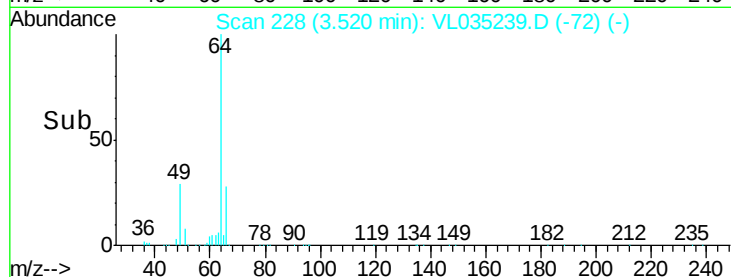
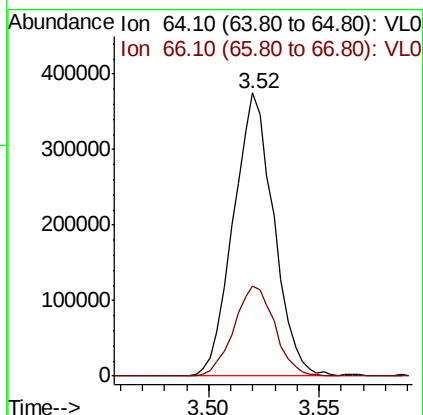
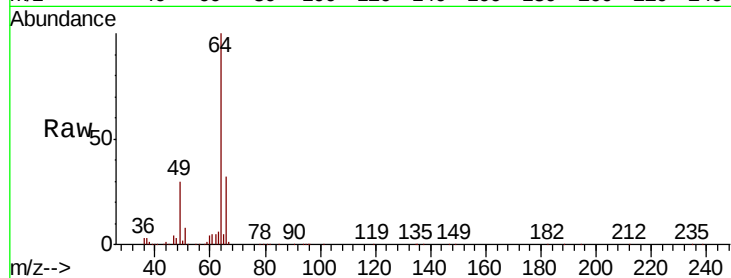
ClientSampleId :

Tot Ion: 64 Resp: 474551

Ion Ratio Lower Upper

64 100

66 32.0 25.6 38.4



#8

Dichlorotetrafluoroethane

Concen: 10.894 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035239.D

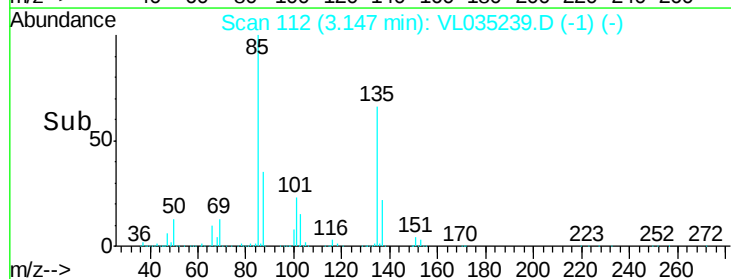
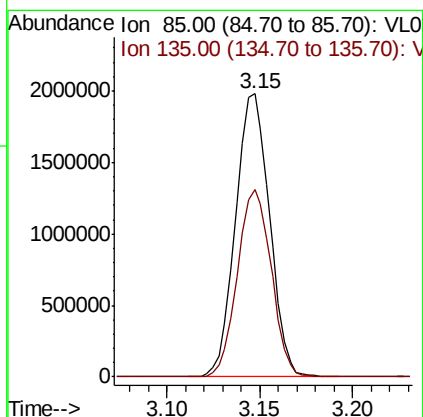
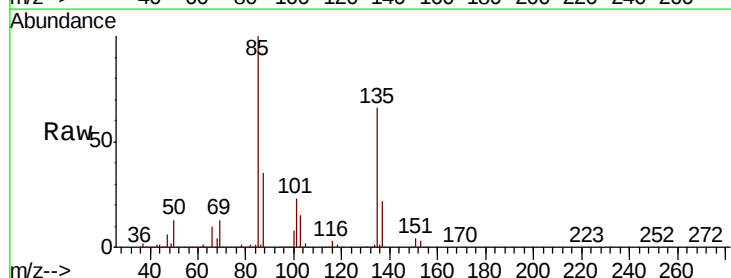
Acq: 29 Jul 2020 6:34

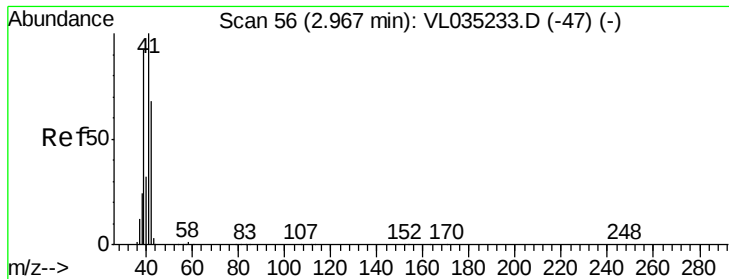
Tgt Ion: 85 Resp: 2520523

Ion Ratio Lower Upper

85 100

135 65.9 51.4 77.0





#9

Propene

Concen: 13.590 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

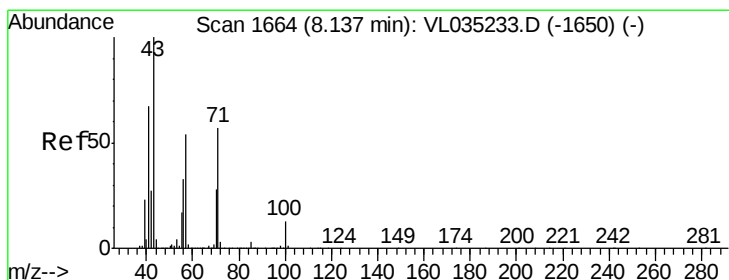
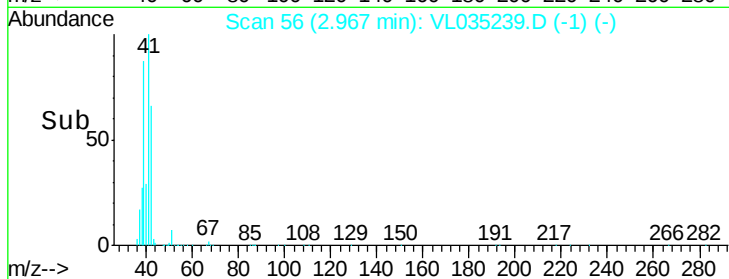
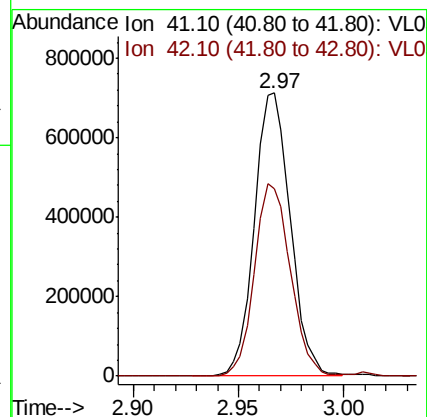
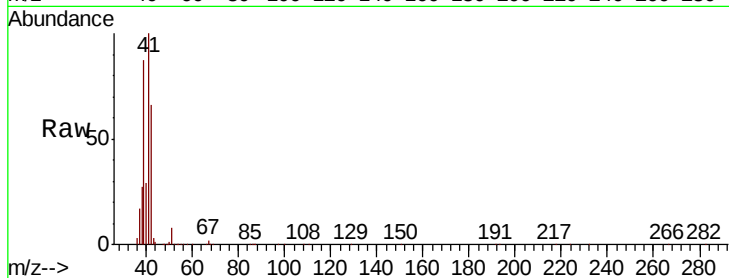
ClientSampleId :

Tot Ion: 41 Resp: 844904

Ion Ratio Lower Upper

41 100

42 69.2 55.0 82.6



#10

Heptane

Concen: 15.410 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL035239.D

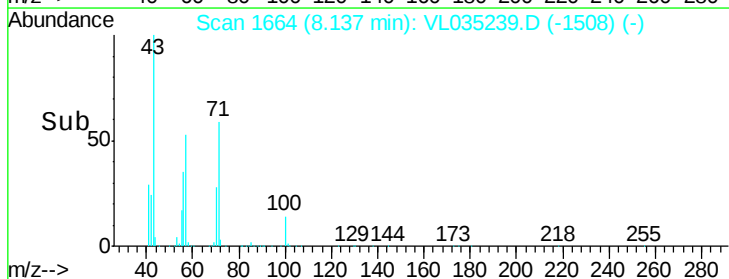
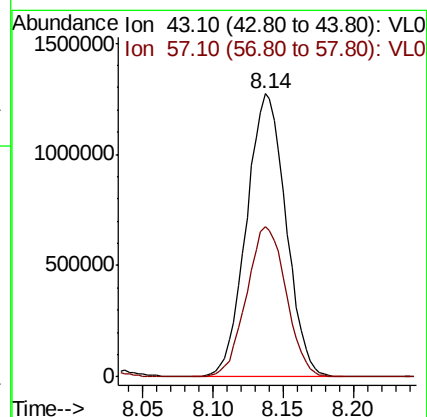
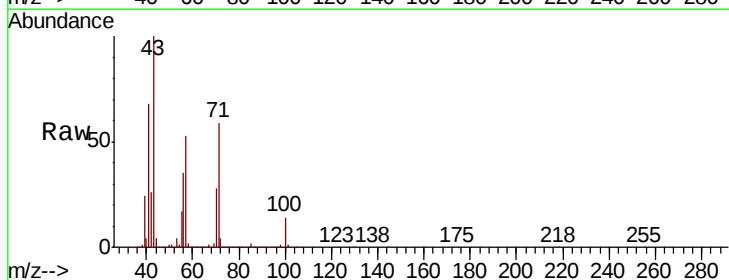
Acq: 29 Jul 2020 6:34

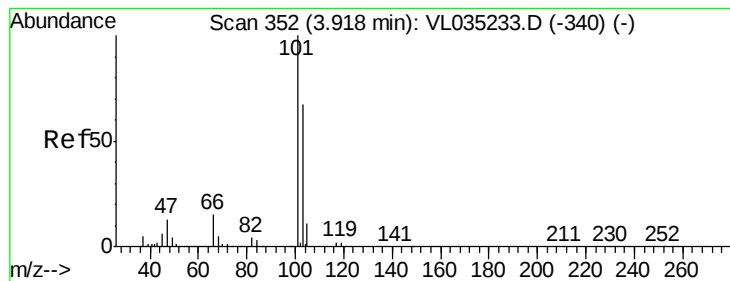
Tgt Ion: 43 Resp: 2488757

Ion Ratio Lower Upper

43 100

57 53.4 43.0 64.4





#11

Trichlorofluoromethane

Concen: 12.348 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

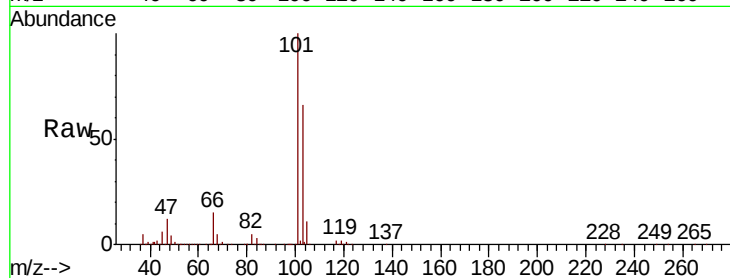
ClientSampleId :

Tot Ion:101 Resp: 2950089

Ion Ratio Lower Upper

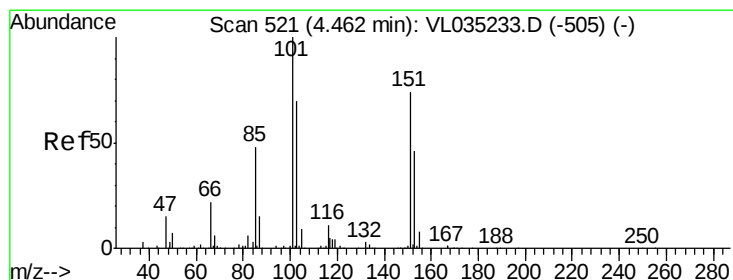
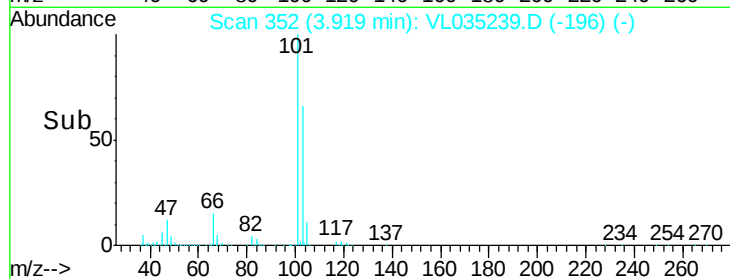
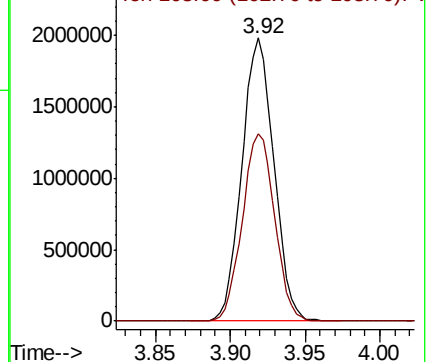
101 100

103 66.3 53.4 80.0



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: 12.551 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL035239.D

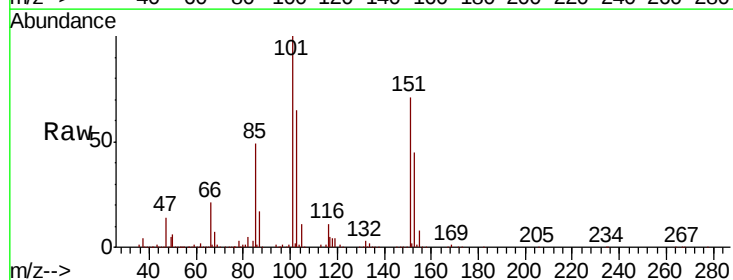
Acq: 29 Jul 2020 6:34

Tgt Ion:101 Resp: 2106888

Ion Ratio Lower Upper

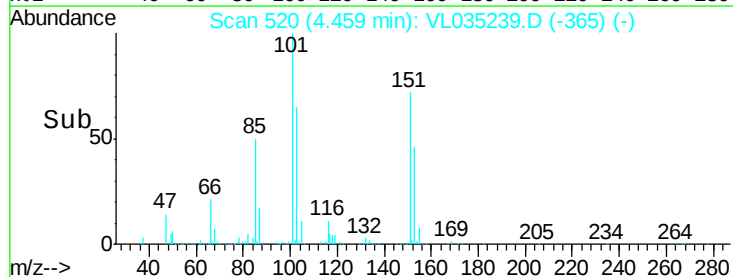
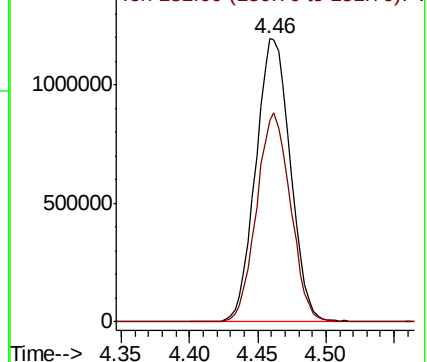
101 100

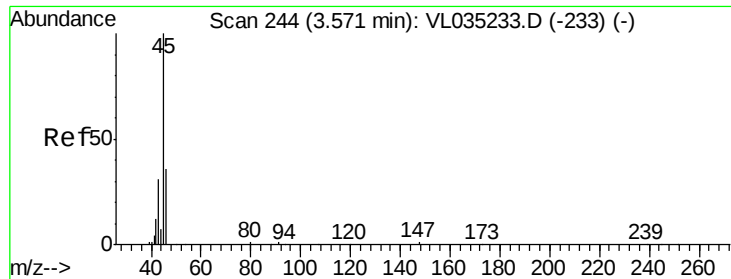
151 72.4 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

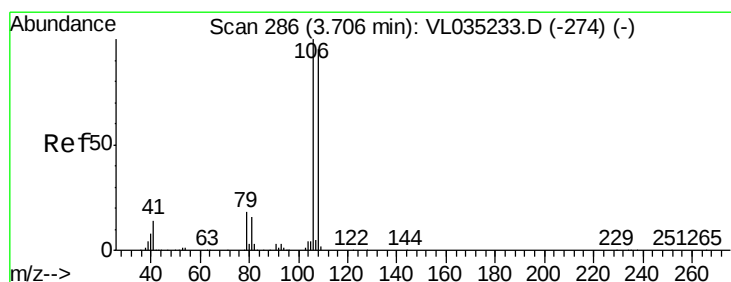
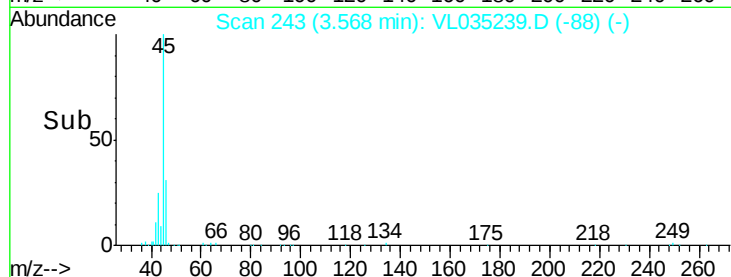
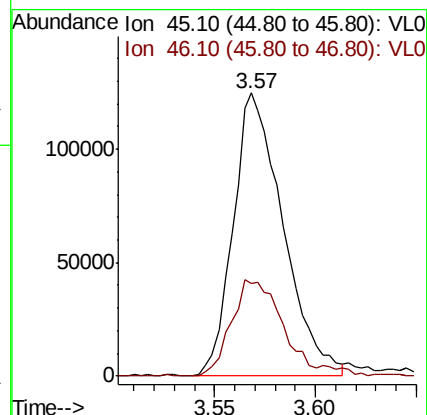
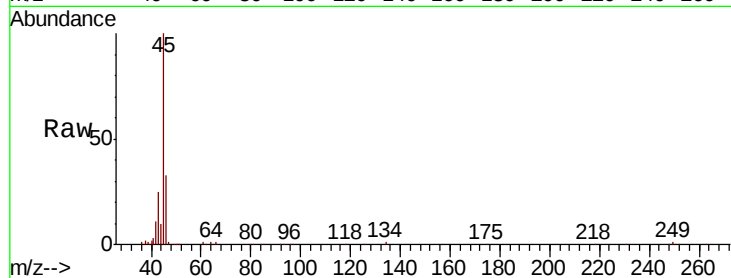




#13  
Ethanol  
Concen: 10.562 ppbv  
RT: 3.57 min Scan# 243  
Delta R.T. -0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

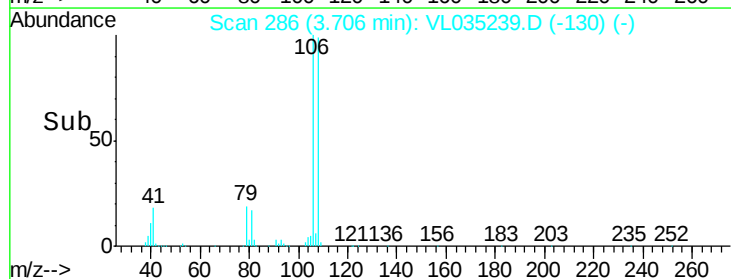
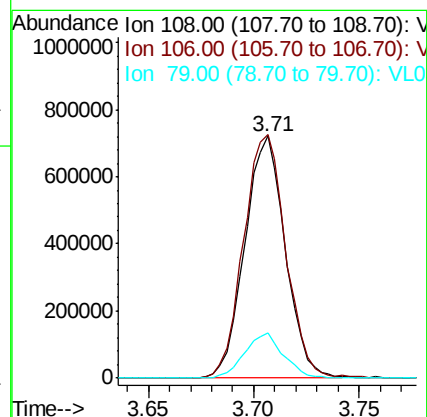
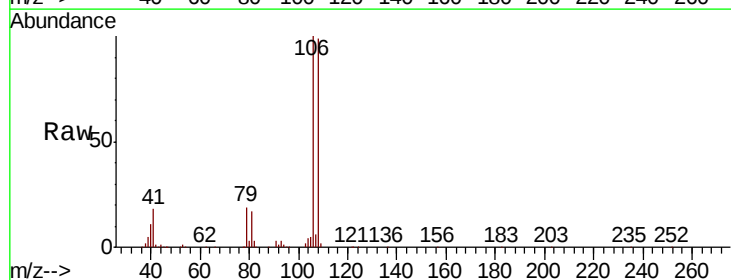
Instrument :  
MSVOA\_L  
ClientSampled :

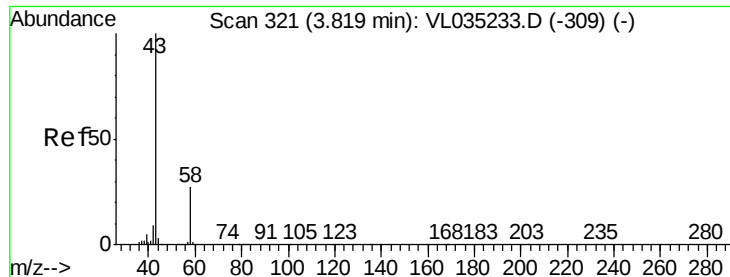
Tot Ion: 45 Resp: 215659  
Ion Ratio Lower Upper  
45 100  
46 36.5 15.8 63.4



#14  
Bromoethene  
Concen: 13.954 ppbv  
RT: 3.71 min Scan# 286  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 108 Resp: 962091  
Ion Ratio Lower Upper  
108 100  
106 105.1 85.0 127.6  
79 18.0 15.4 23.2





#15

Acetone

Concen: 11.183 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

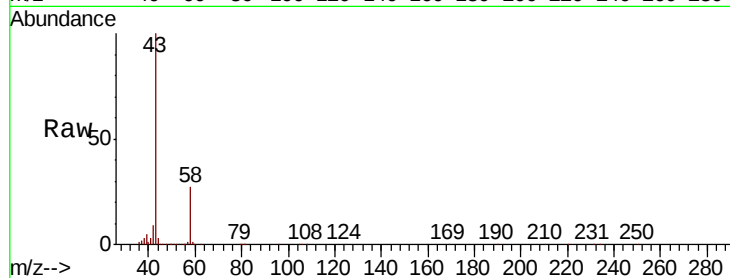
ClientSampleId :

Tot Ion: 43 Resp: 2279654

Ion Ratio Lower Upper

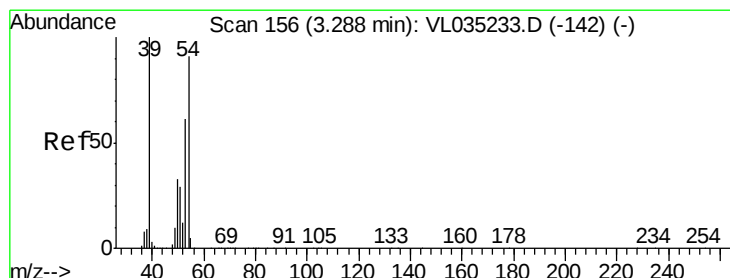
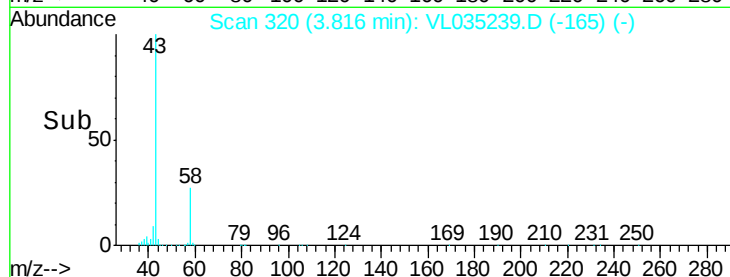
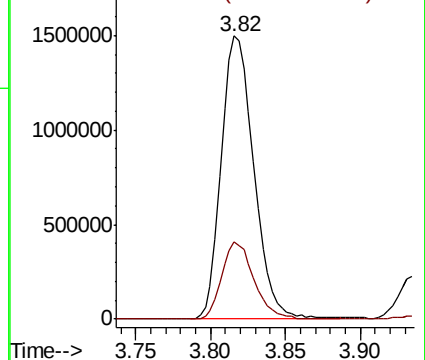
43 100

58 26.9 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.314 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035239.D

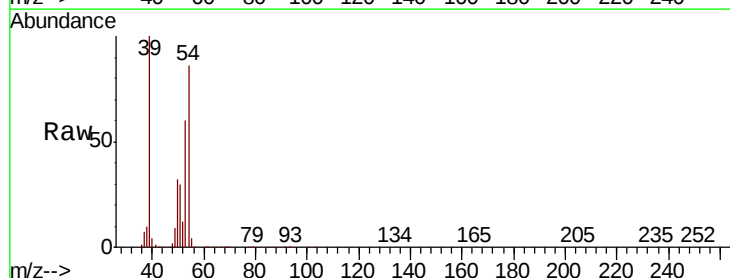
Acq: 29 Jul 2020 6:34

Tgt Ion: 39 Resp: 1117826

Ion Ratio Lower Upper

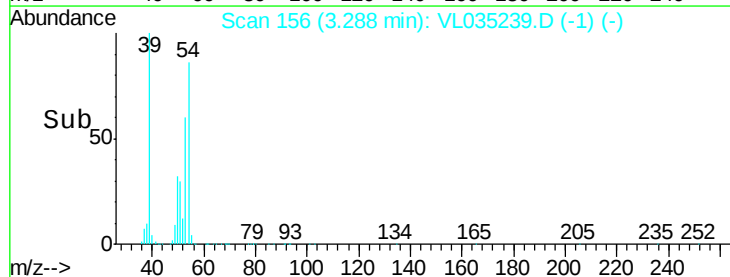
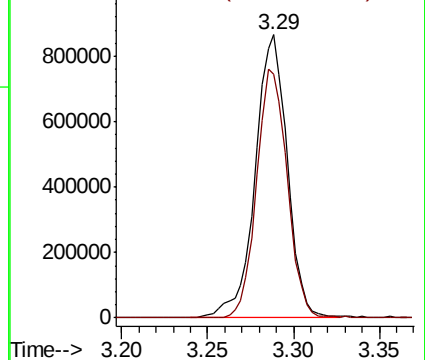
39 100

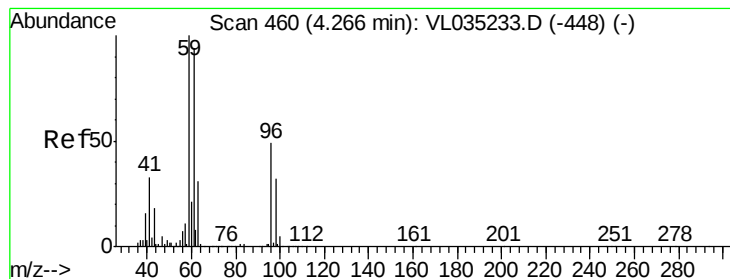
54 84.4 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 13.799 ppbv

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

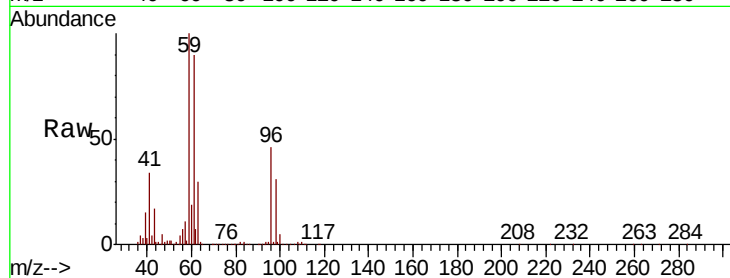
ClientSampled :

Tot Ion: 59 Resp: 2511198

Ion Ratio Lower Upper

59 100

57 11.1 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.27

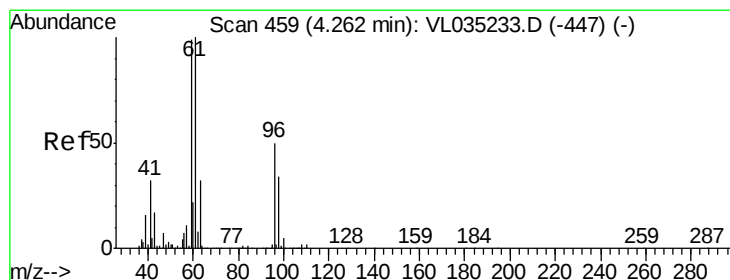
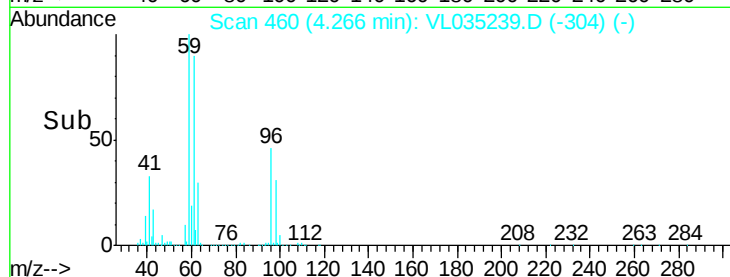
1500000

1000000

500000

0

Time-->



#18

1,1-Dichloroethene

Concen: 13.333 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

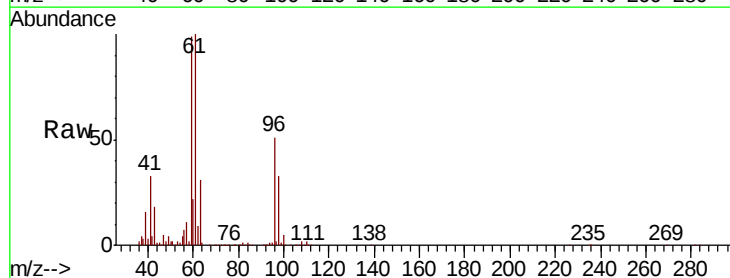
Tgt Ion: 96 Resp: 992120

Ion Ratio Lower Upper

96 100

61 197.2 159.4 239.2

98 65.3 53.9 80.9



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

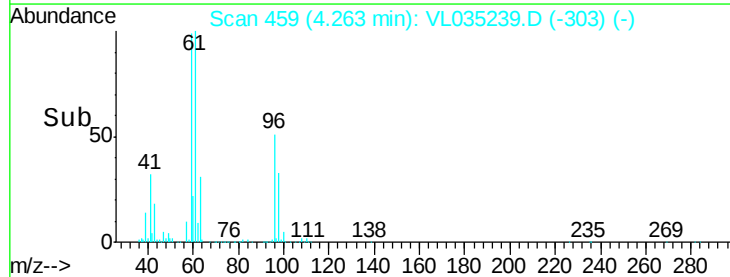
1500000

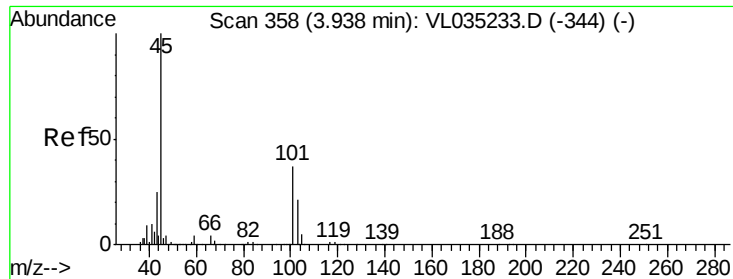
1000000

500000

0

Time-->



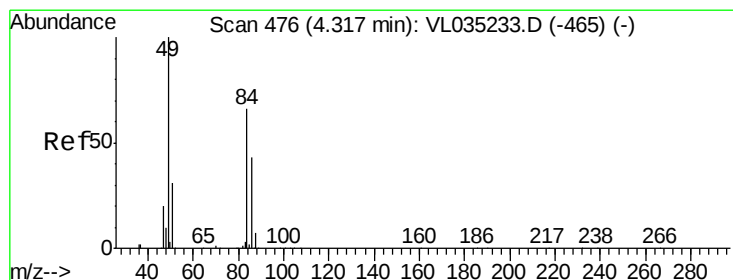
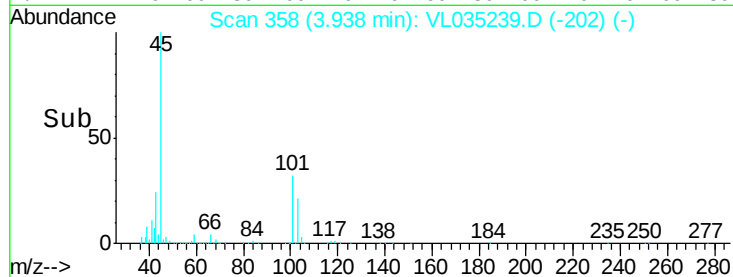
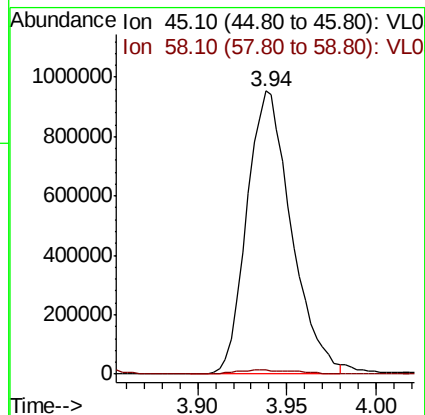
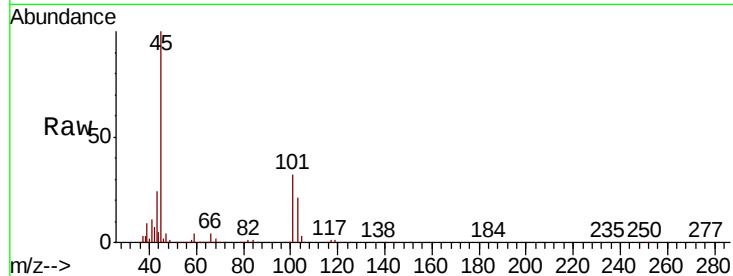


#19

Isopropyl Alcohol  
 Concen: 13.369 ppbv  
 RT: 3.94 min Scan# 358  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :

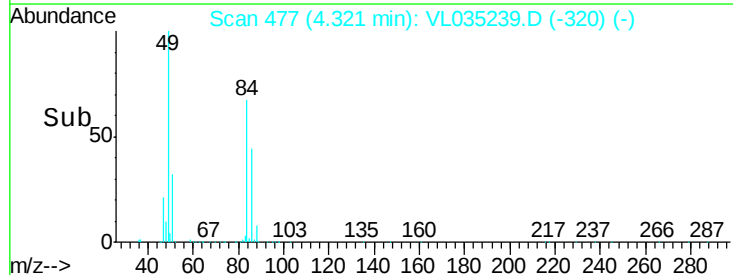
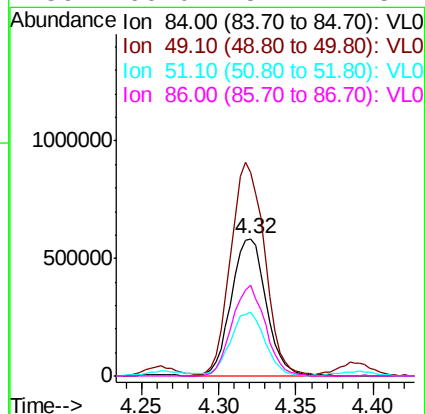
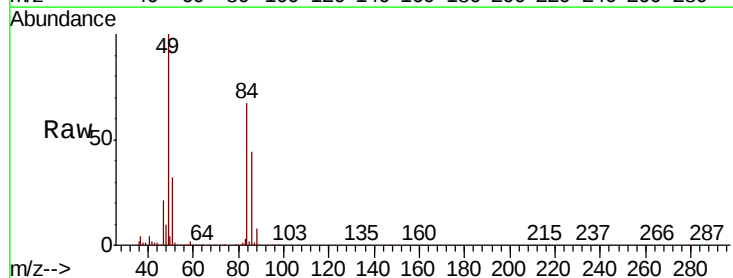
Tot Ion: 45 Resp: 1661135  
 Ion Ratio Lower Upper  
 45 100  
 58 2.3 1.9 2.9

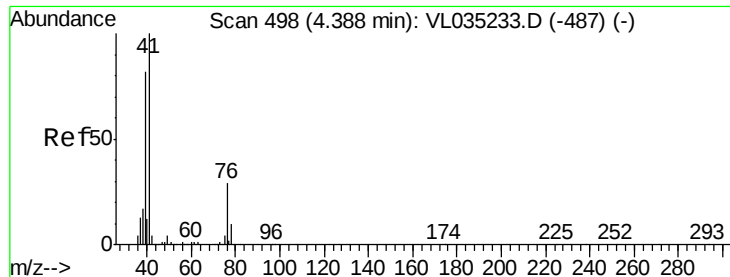


#20

Methylene Chloride  
 Concen: 10.221 ppbv  
 RT: 4.32 min Scan# 477  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion: 84 Resp: 910755  
 Ion Ratio Lower Upper  
 84 100  
 49 147.2 121.0 181.4  
 51 45.4 37.7 56.5  
 86 66.0 52.2 78.4





#21

Allvl Chloride

Concen: 13.433 ppbv

RT: 4.39 min Scan# 498

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

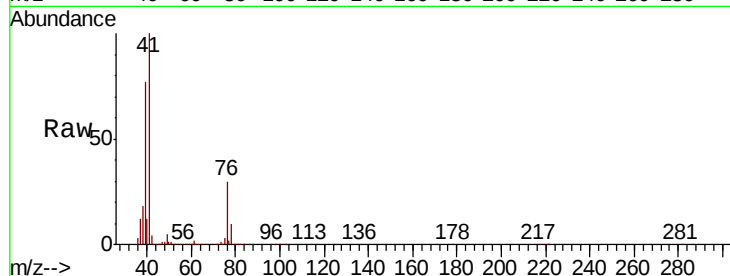
Tot Ion: 41 Resp: 1594311

Ion Ratio Lower Upper

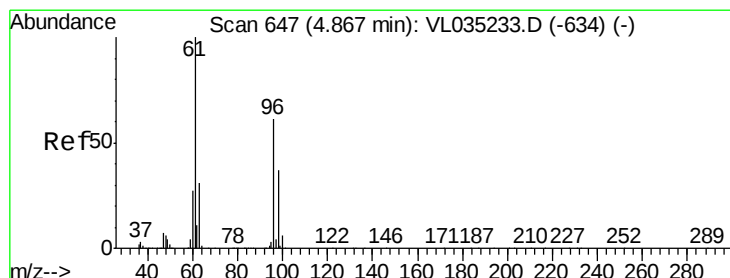
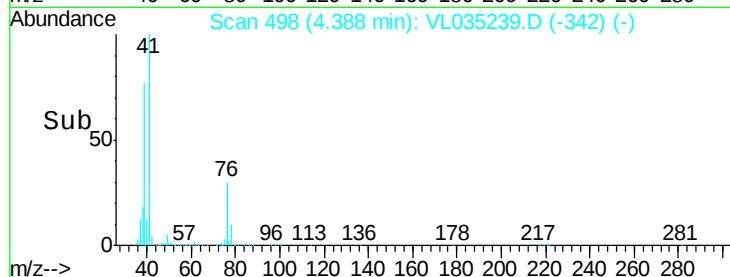
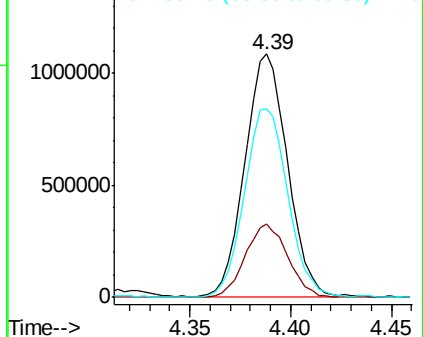
41 100

76 30.5 24.4 36.6

39 80.2 63.8 95.8



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: 12.998 ppbv

RT: 4.87 min Scan# 648

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

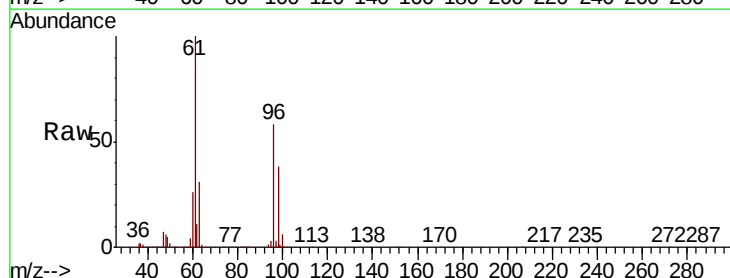
Tgt Ion: 96 Resp: 960230

Ion Ratio Lower Upper

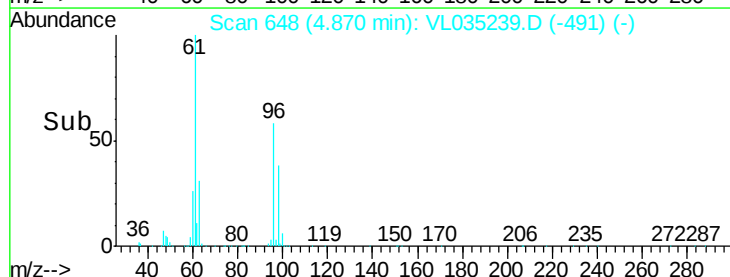
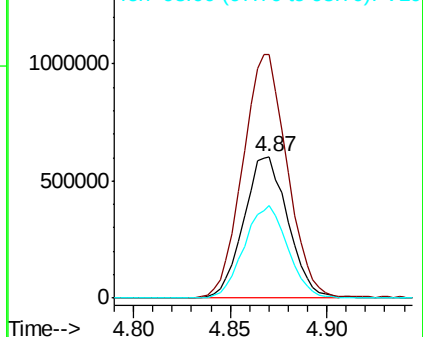
96 100

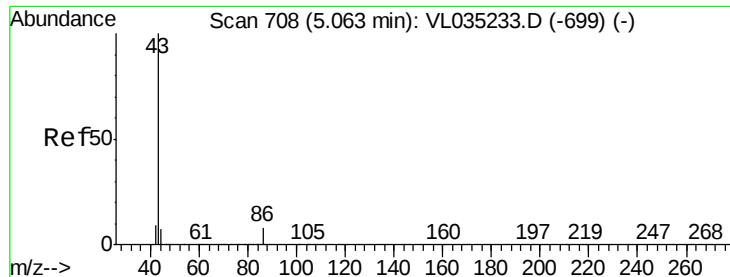
61 171.9 131.6 197.4

98 64.9 49.0 73.4



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: 13.793 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

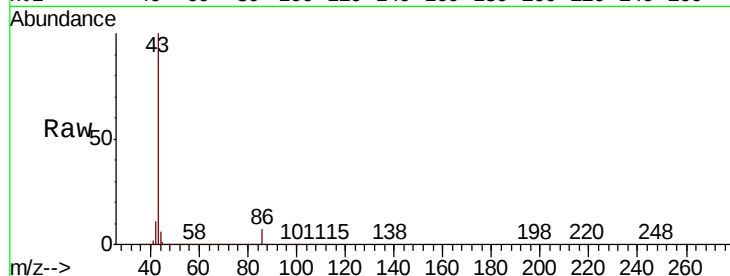
Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

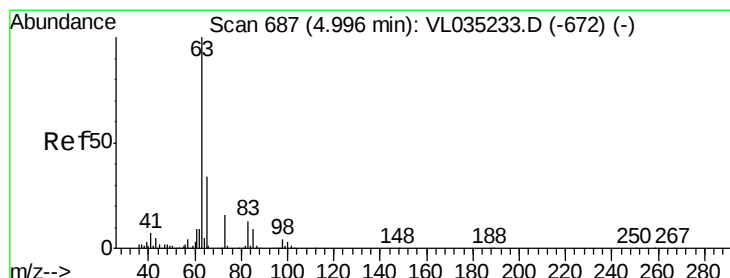
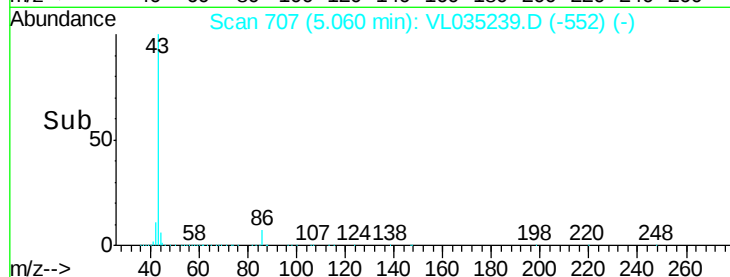
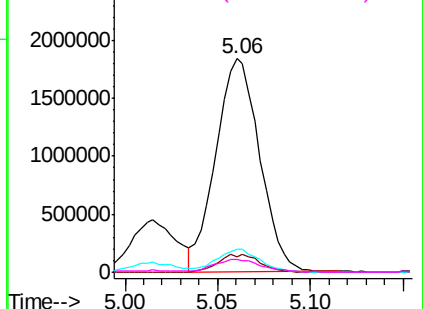
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 3005548

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.4   | 6.2   | 9.2   |
| 42  | 10.7  | 8.0   | 12.0  |
| 44  | 6.0   | 5.2   | 7.8   |



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: 12.950 ppbv

RT: 5.00 min Scan# 687

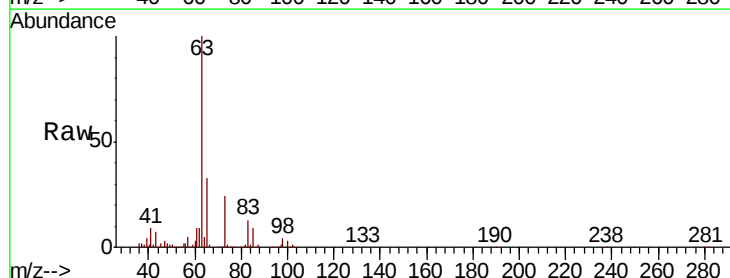
Delta R.T. 0.00 min

Lab File: VL035239.D

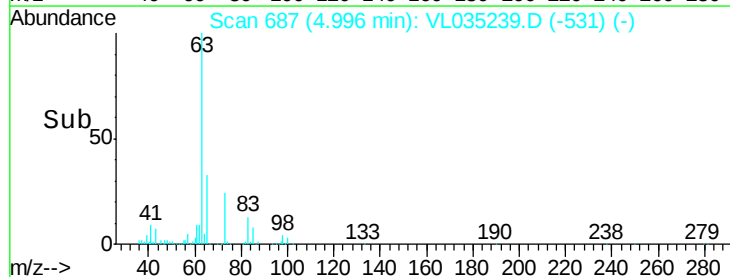
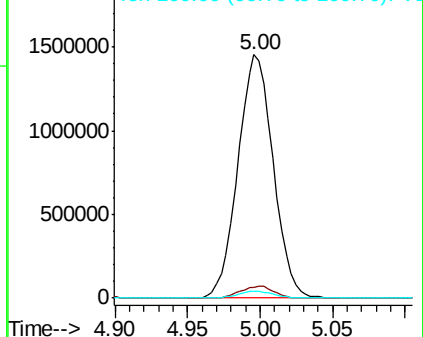
Acq: 29 Jul 2020 6:34

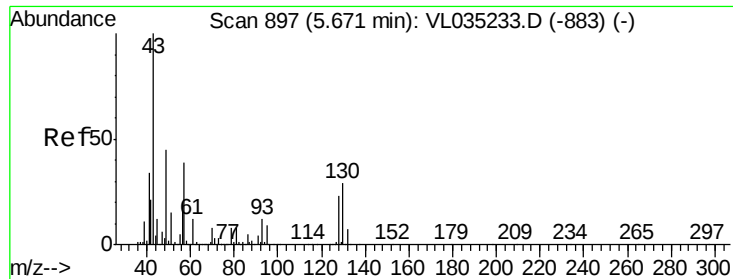
Tgt Ion: 63 Resp: 2450315

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.1   | 1.9   | 5.7   |
| 100 | 2.5   | 1.4   | 4.2   |



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



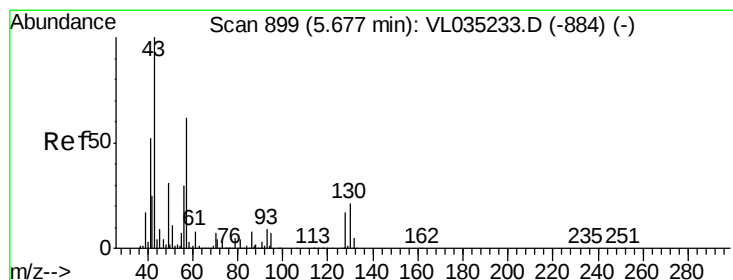
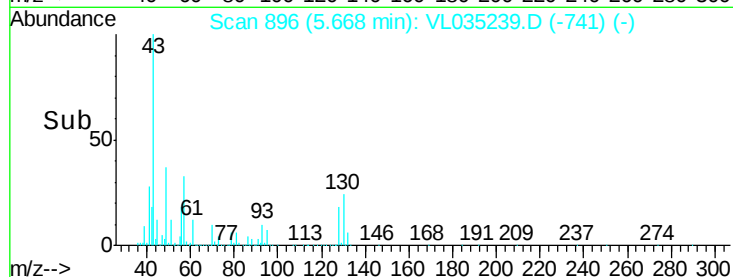
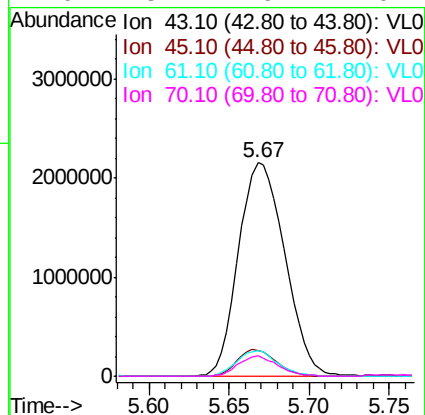
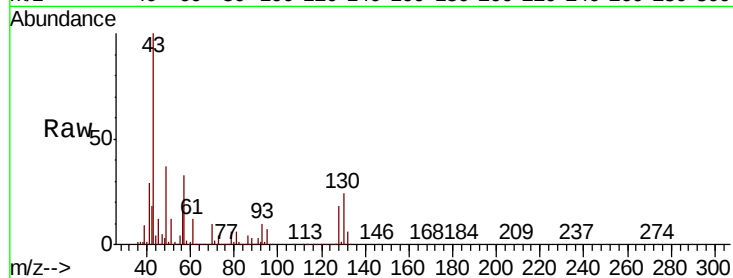


#25  
Ethyl Acetate  
Concen: 13.460 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 4249880

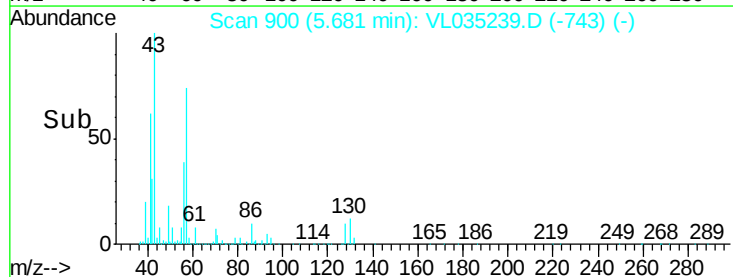
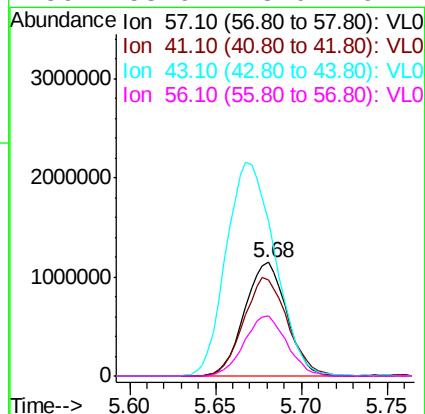
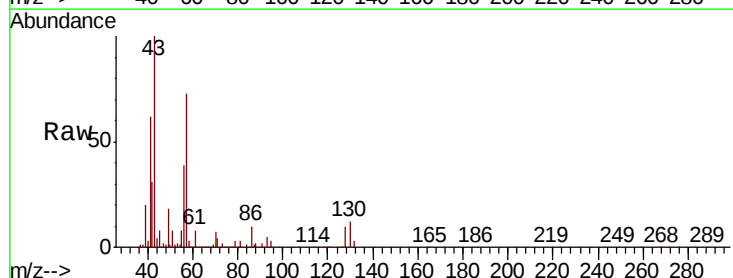
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.6  | 8.5   | 12.7  |
| 61  | 10.5  | 8.1   | 12.1  |
| 70  | 8.1   | 6.2   | 9.4   |

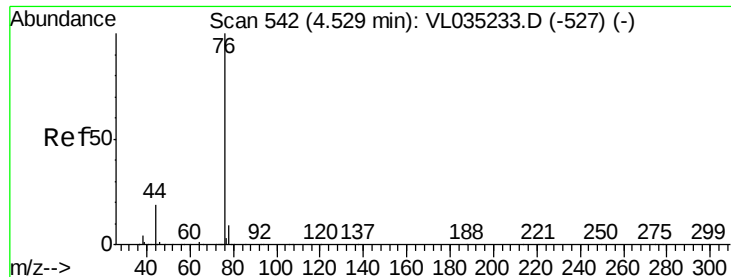


#26  
Hexane  
Concen: 13.960 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 57 Resp: 1947923

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.9  | 73.9  | 110.9 |
| 43  | 219.7 | 177.6 | 266.4 |
| 56  | 53.6  | 43.0  | 64.4  |





#27

Carbon Disulfide

Concen: 13.566 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampled :

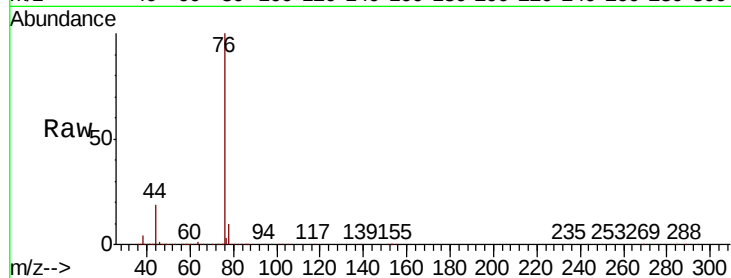
Tot Ion: 76 Resp: 2632610

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.7  | 14.7  | 22.1  |
| 78  | 9.5   | 7.6   | 11.4  |

76 100

44 18.7 14.7 22.1

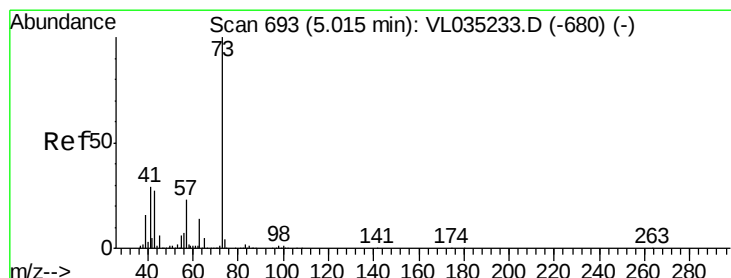
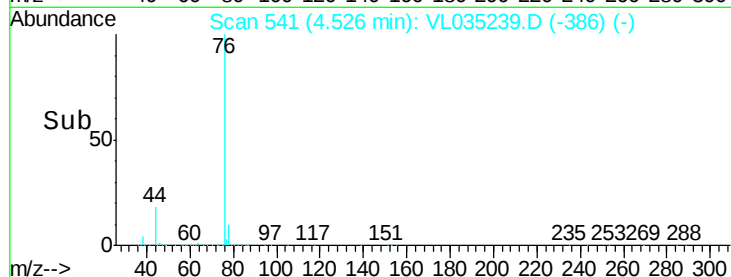
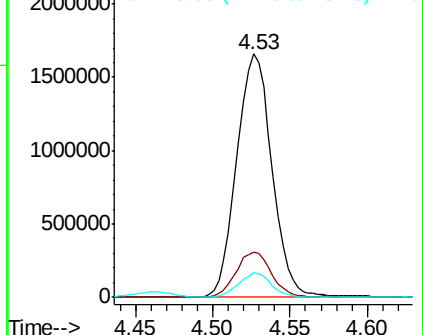
78 9.5 7.6 11.4



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: 13.744 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL035239.D

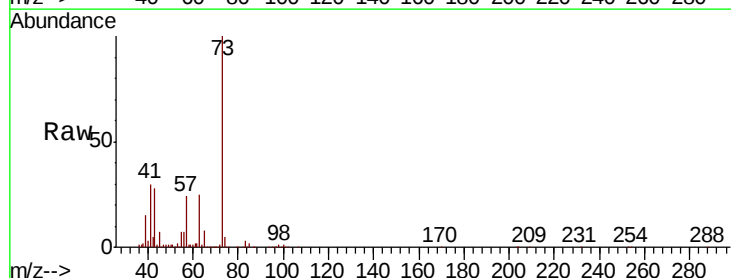
Acq: 29 Jul 2020 6:34

Tgt Ion: 73 Resp: 2910751

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 23.0  | 18.2  | 27.4  |

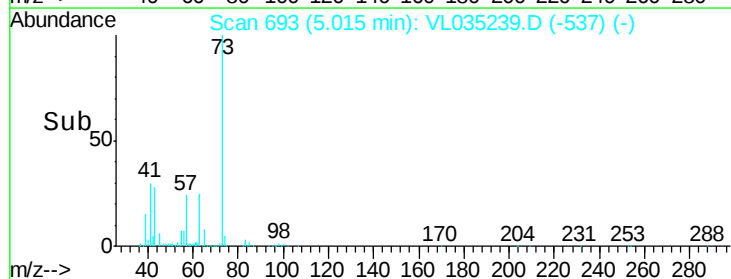
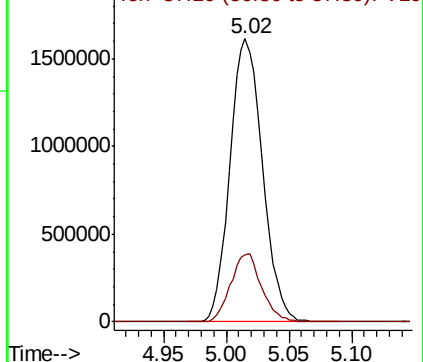
73 100

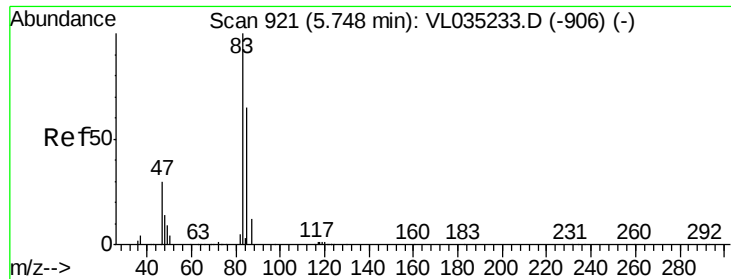
57 23.0 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

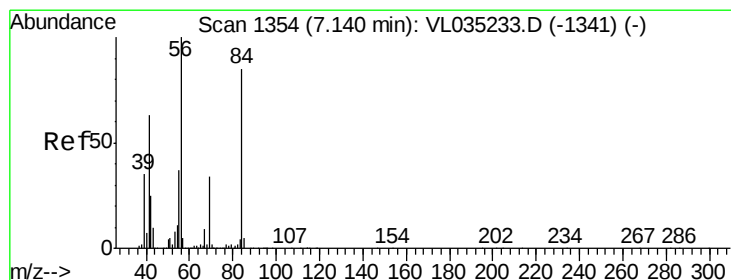
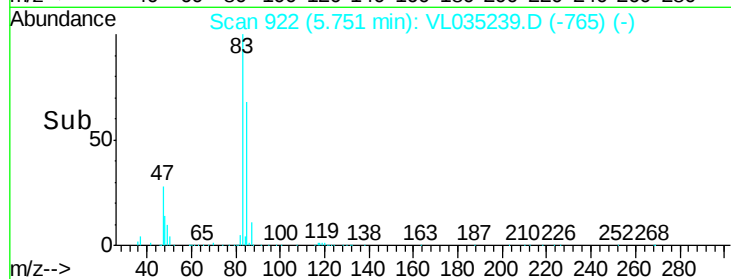
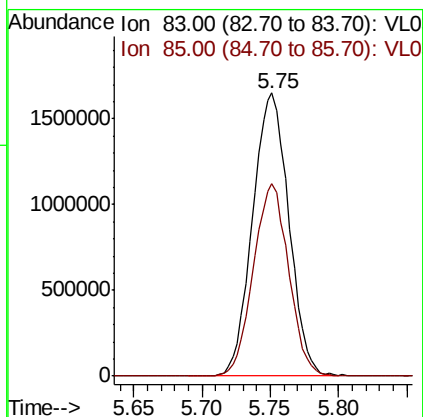
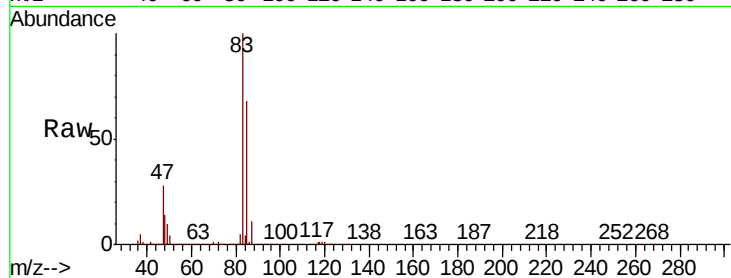




#29  
Chloroform  
Concen: 12.977 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

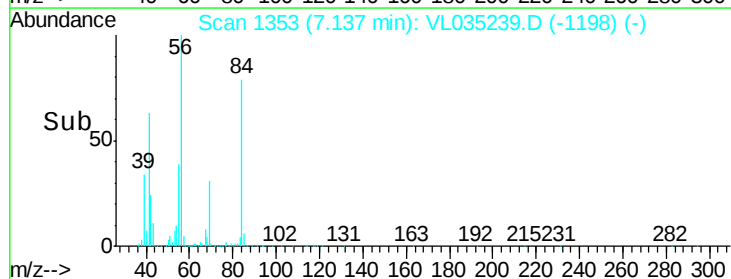
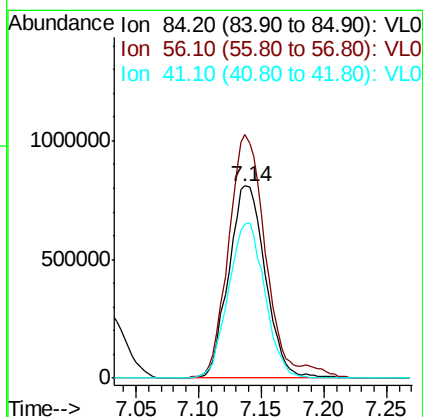
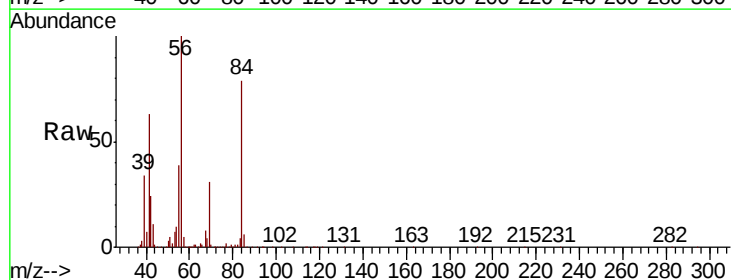
Instrument :  
MSVOA\_L  
ClientSampleId :

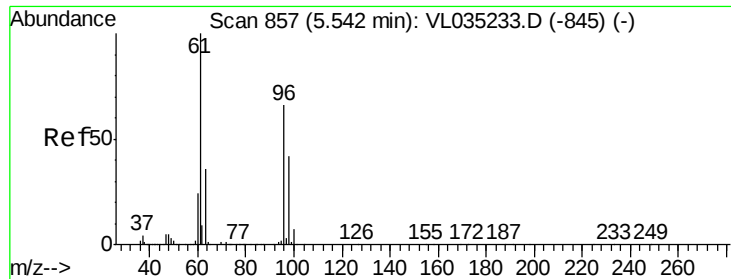
Tot Ion: 83 Resp: 3042119  
Ion Ratio Lower Upper  
83 100  
85 67.7 51.7 77.5



#30  
Cyclohexane  
Concen: 15.954 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. -0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 84 Resp: 1644310  
Ion Ratio Lower Upper  
84 100  
56 129.4 104.2 156.2  
41 80.1 63.7 95.5



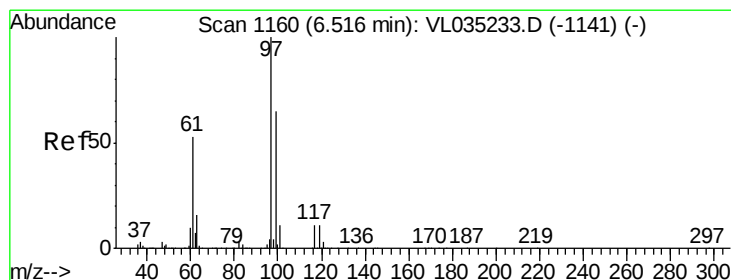
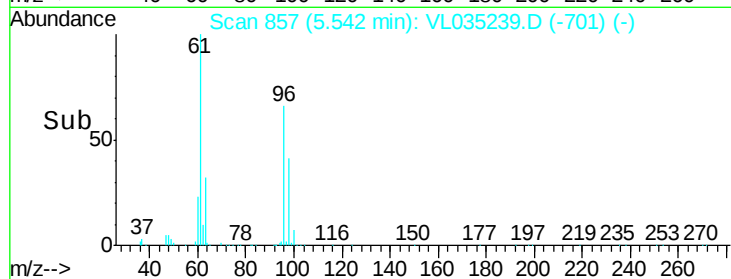
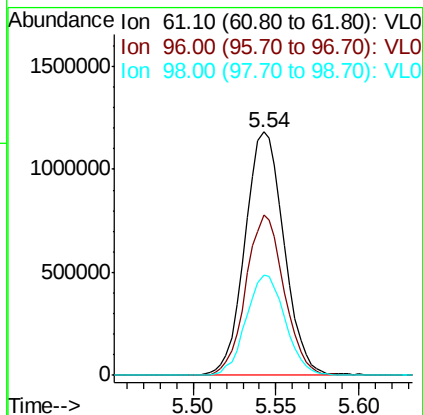
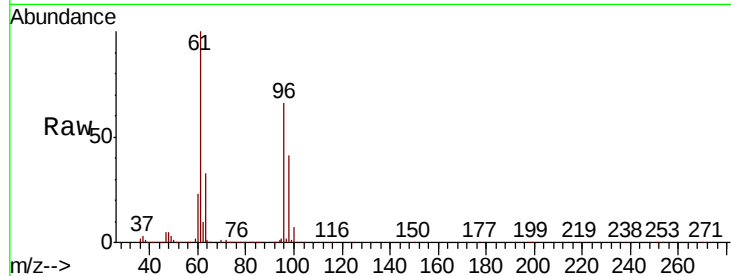


#31

cis-1,2-Dichloroethene  
 Concen: 14.802 ppbv  
 RT: 5.54 min Scan# 857  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :

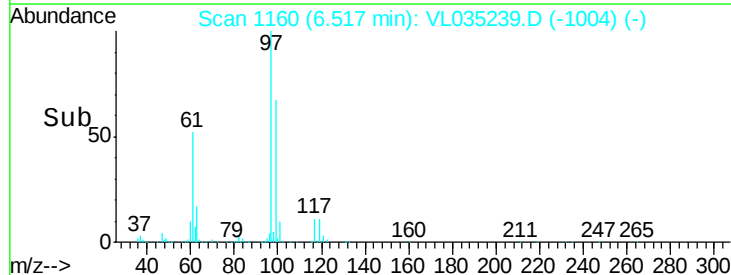
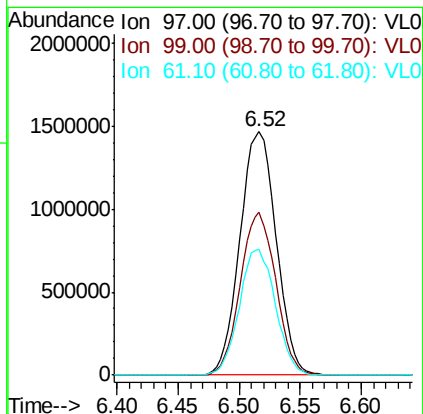
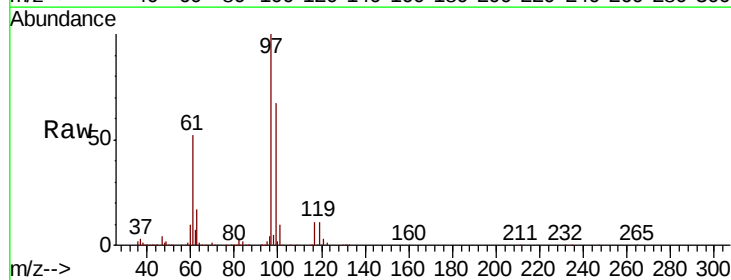
Tot Ion: 61 Resp: 1941069  
 Ion Ratio Lower Upper  
 61 100  
 96 65.8 52.6 78.8  
 98 41.1 33.7 50.5

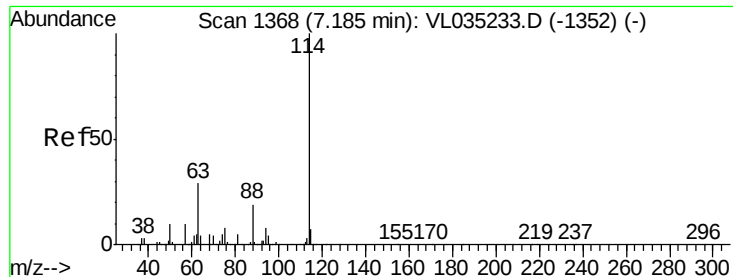


#32

1,1,1-Trichloroethane  
 Concen: 12.855 ppbv  
 RT: 6.52 min Scan# 1160  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion: 97 Resp: 3013181  
 Ion Ratio Lower Upper  
 97 100  
 99 65.4 51.4 77.0  
 61 51.5 40.4 60.6



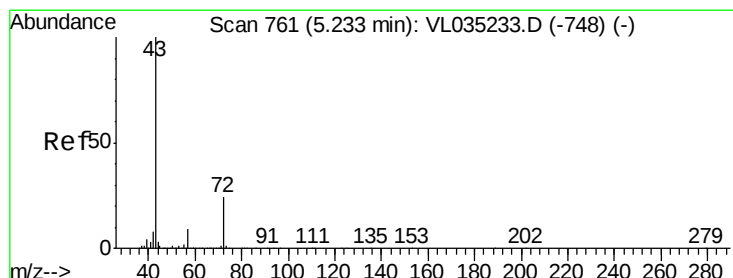
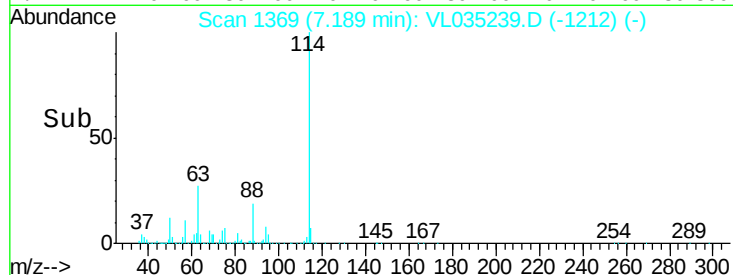
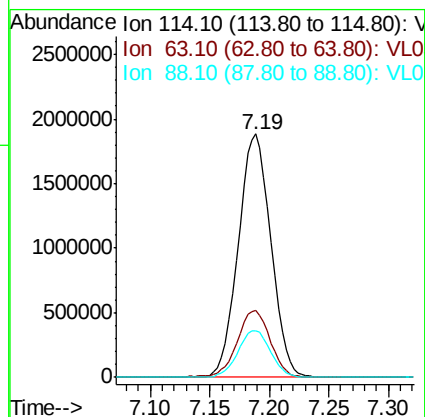
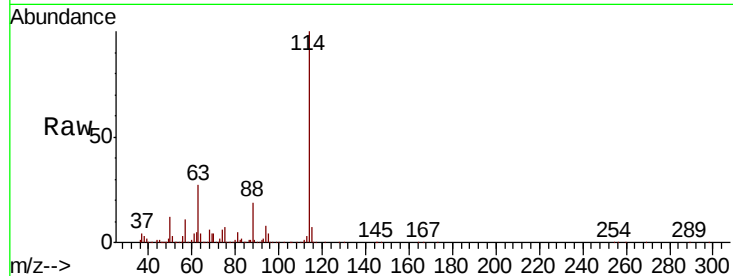


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion:114 Resp: 3580892  

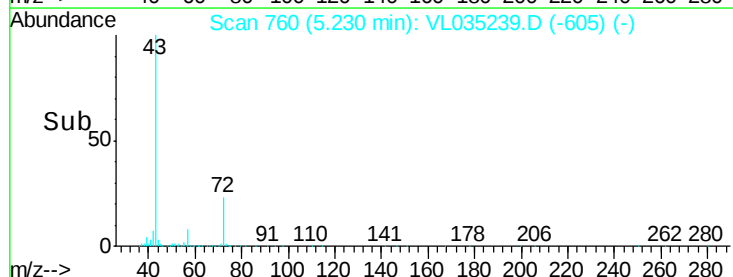
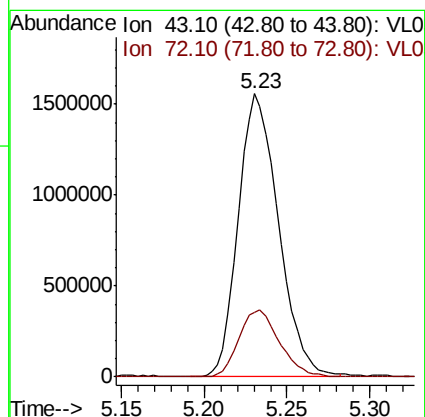
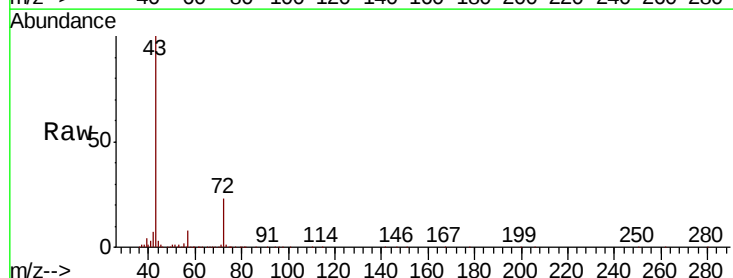
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 28.2  | 22.2  | 33.2  |
| 88  | 19.3  | 15.4  | 23.0  |

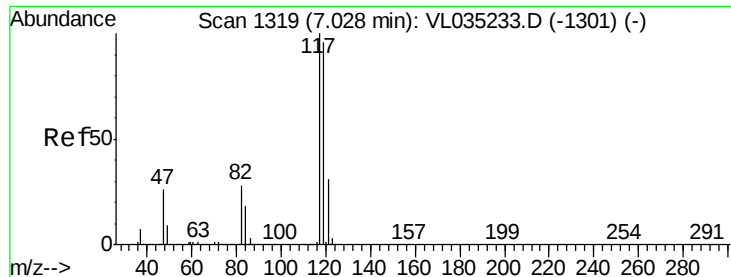


#34  
 2-Butanone  
 Concen: 13.759 ppbv  
 RT: 5.23 min Scan# 760  
 Delta R.T. -0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion: 43 Resp: 2627731  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 24.0  | 19.2  | 28.8  |





#35

Carbon Tetrachloride

Concen: 13.425 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

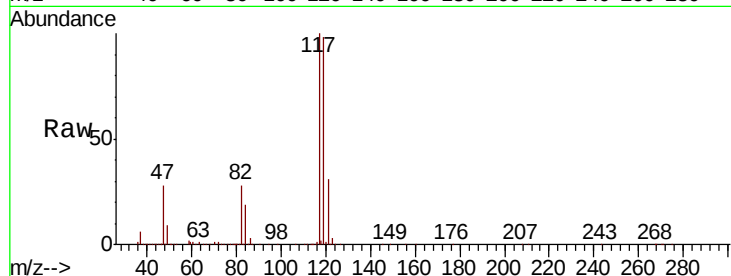
Tot Ion:117 Resp: 3140333

Ion Ratio Lower Upper

117 100

119 98.3 76.8 115.2

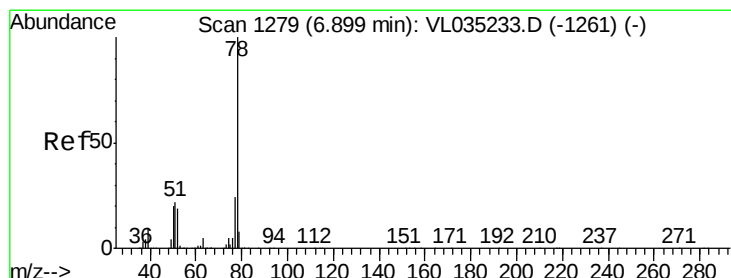
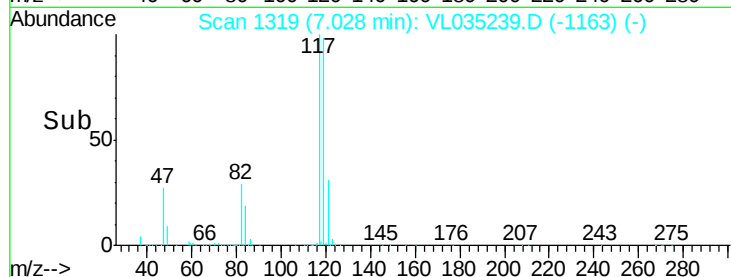
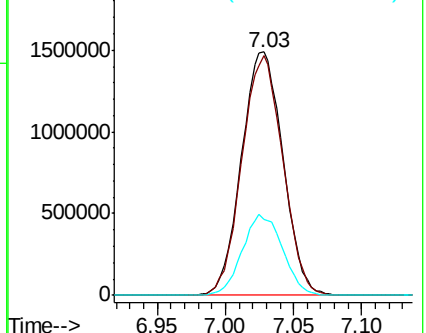
121 31.4 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.539 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

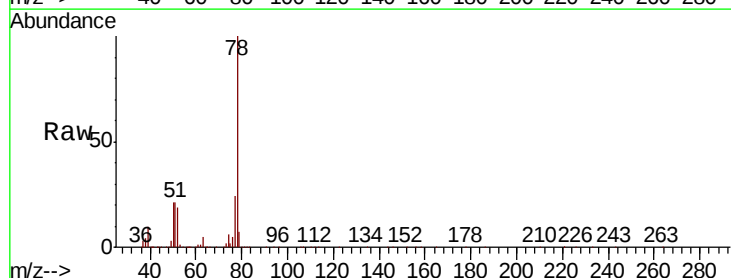
Tgt Ion: 78 Resp: 3771960

Ion Ratio Lower Upper

78 100

77 23.7 18.9 28.3

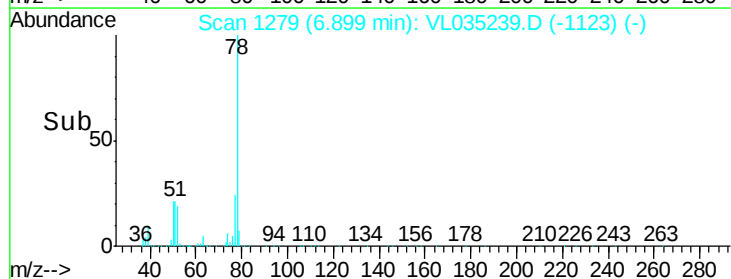
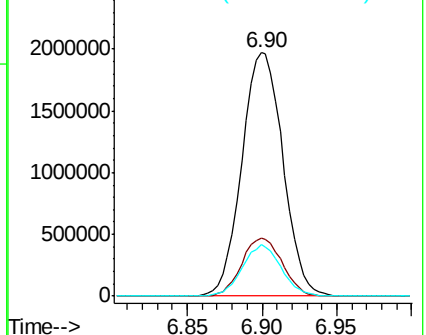
50 21.4 16.1 24.1

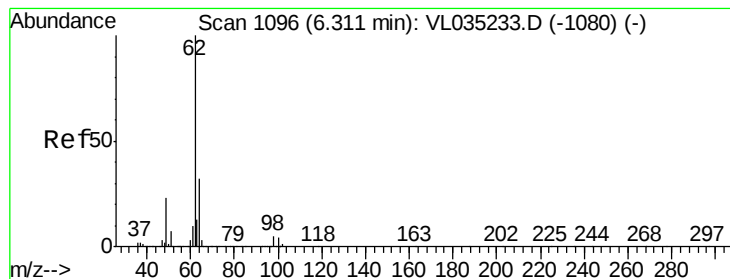


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.640 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

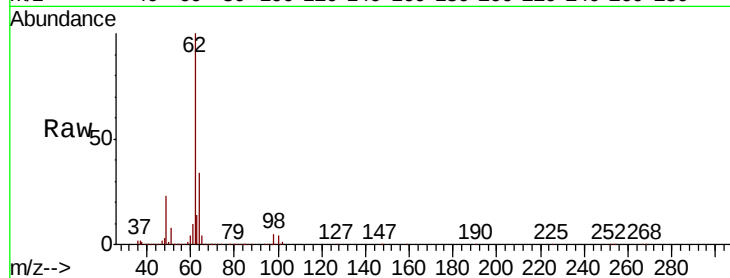
ClientSampleId :

Tot Ion: 62 Resp: 2389333

Ion Ratio Lower Upper

62 100

98 5.7 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.31

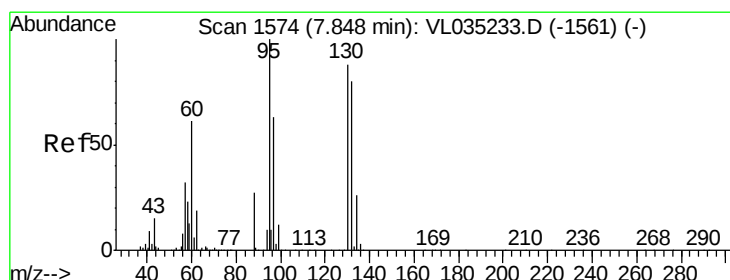
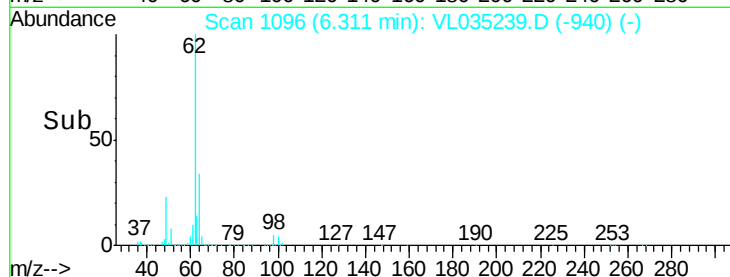
1500000

1000000

500000

0

Time-->



#38

Trichloroethene

Concen: 14.820 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion:130 Resp: 1576369

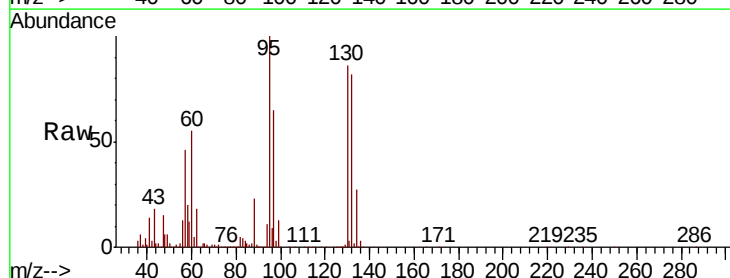
Ion Ratio Lower Upper

130 100

95 116.3 90.7 136.1

132 95.6 72.9 109.3

97 75.7 57.1 85.7



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

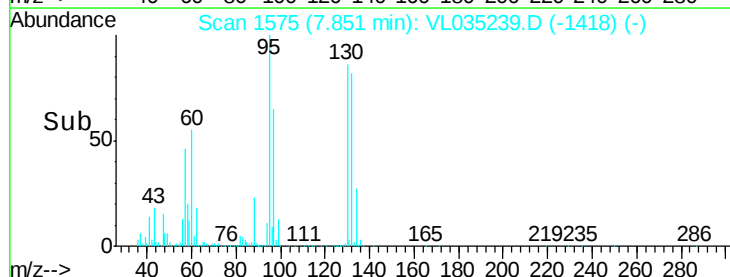
Ion 97.00 (96.70 to 97.70): VL0

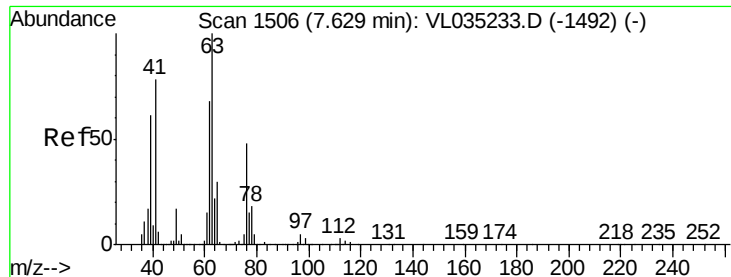
1000000

500000

0

Time-->





#39

1,2-Dichloropropane

Concen: 14.536 ppbv

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

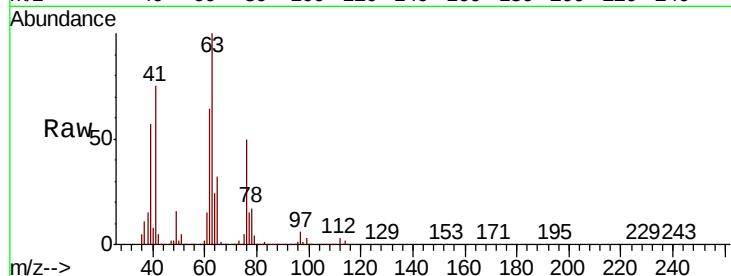
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 63 Resp: 1508658

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 75.1  | 62.2  | 93.4  |
| 62  | 64.5  | 54.2  | 81.2  |

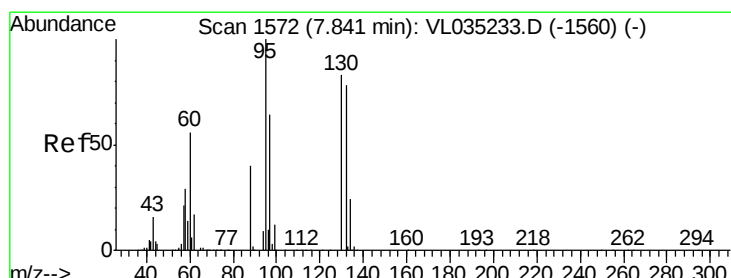
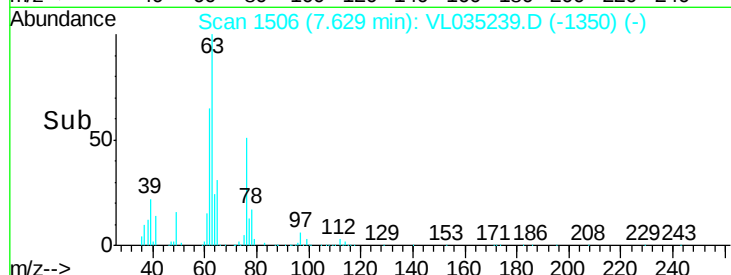
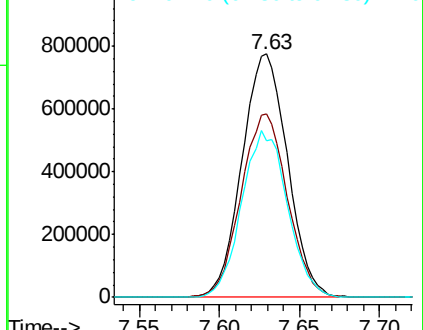


Abundance

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: 14.267 ppbv

RT: 7.84 min Scan# 1573

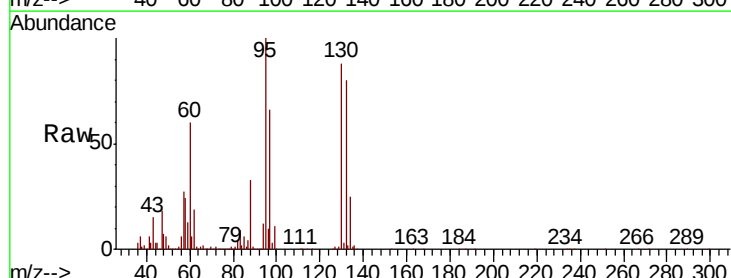
Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 88 Resp: 590227

| Ion | Ratio | Lower | Upper   |
|-----|-------|-------|---------|
| 88  | 100   |       |         |
| 58  | 129.0 | 99.3  | 148.9   |
| 43  | 0.0   | 195.6 | 293.4#  |
| 57  | 0.0   | 854.3 | 1281.5# |



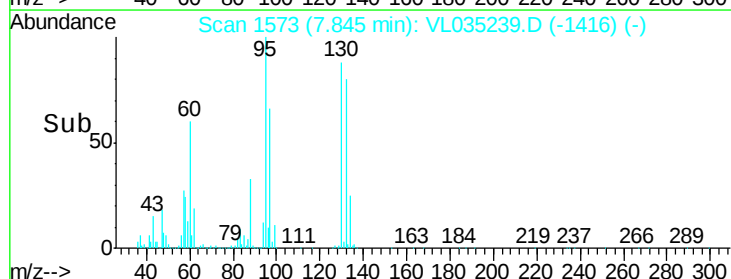
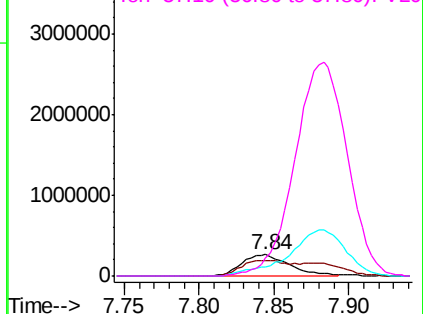
Abundance

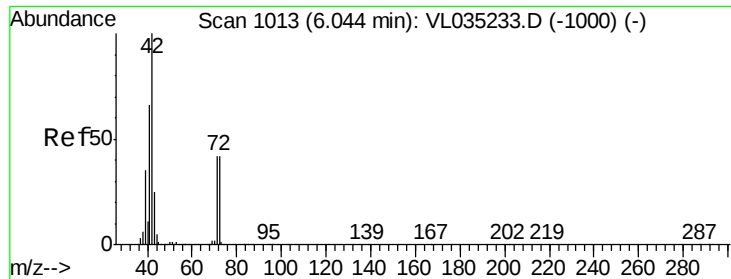
Ion 88.10 (87.80 to 88.80): VL0

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

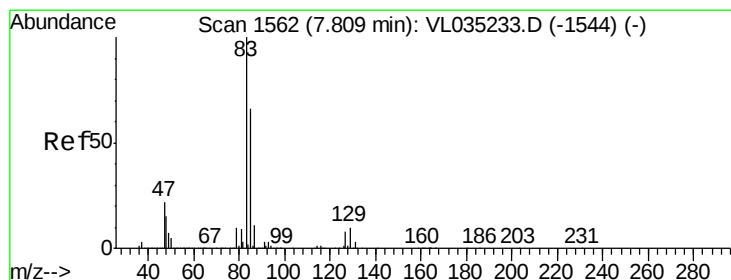
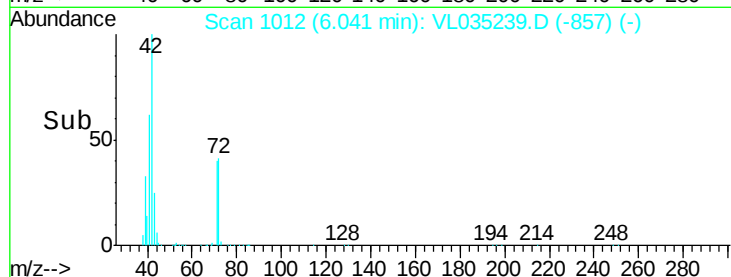
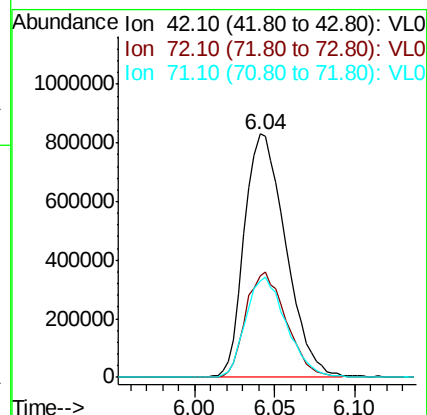
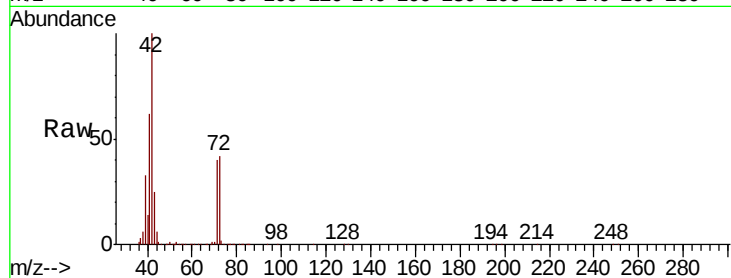




#41  
Tetrahydrofuran  
Concen: 15.439 ppbv  
RT: 6.04 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

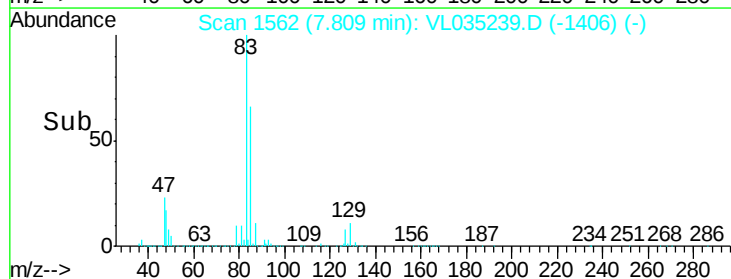
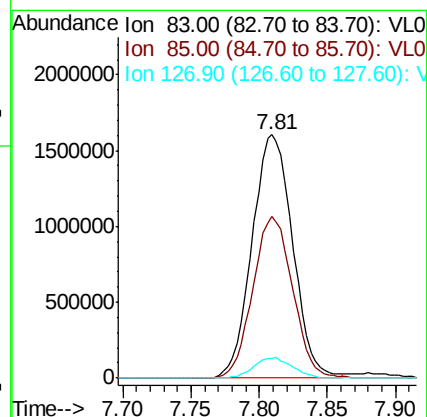
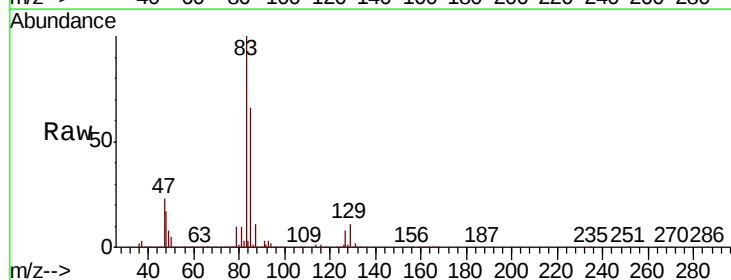
Instrument :  
MSVOA\_L  
ClientSampled :

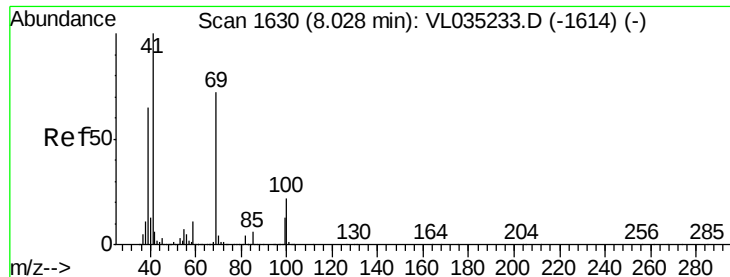
Tot Ion: 42 Resp: 1467450  
Ion Ratio Lower Upper  
42 100  
72 42.4 34.2 51.2  
71 40.4 33.2 49.8



#42  
Bromodichloromethane  
Concen: 14.152 ppbv  
RT: 7.81 min Scan# 1562  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 83 Resp: 3310422  
Ion Ratio Lower Upper  
83 100  
85 66.2 52.9 79.3  
127 8.2 6.5 9.7

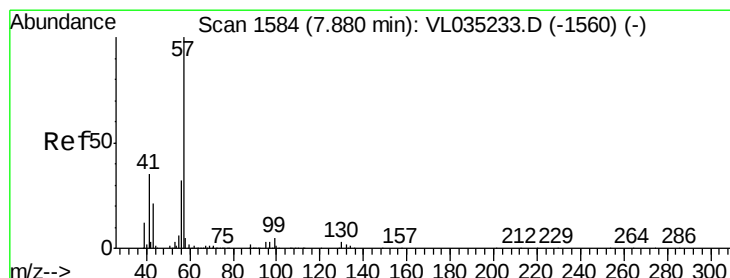
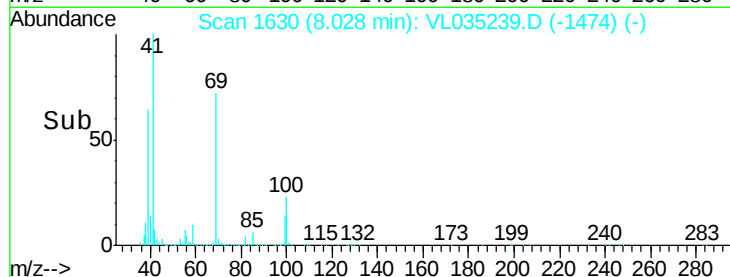
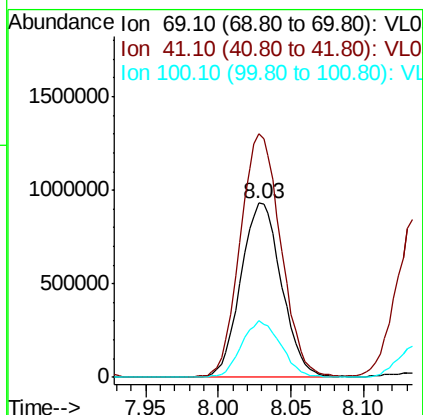
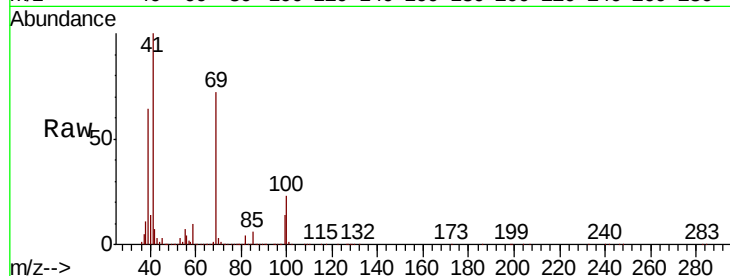




#43  
Methvl Methacrylate  
Concen: 16.428 ppbv  
RT: 8.03 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

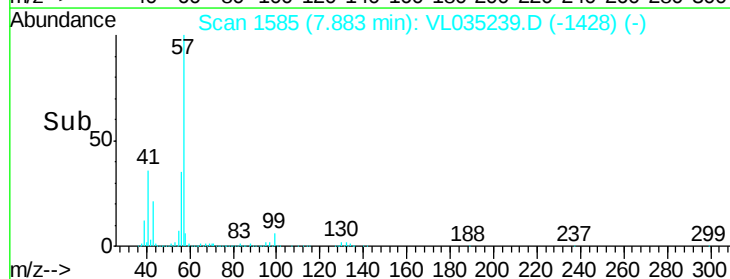
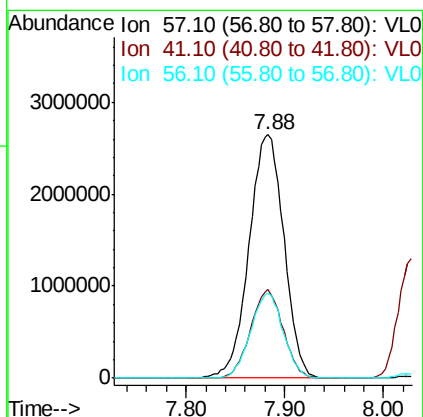
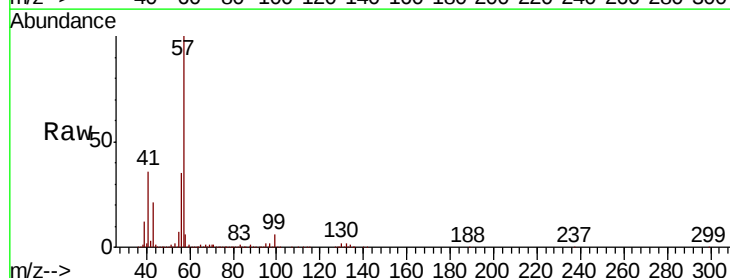
Instrument :  
MSVOA\_L  
ClientSampleId :

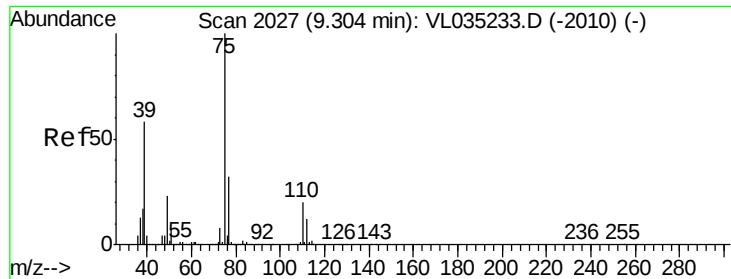
Tot Ion: 69 Resp: 1813726  
Ion Ratio Lower Upper  
69 100  
41 139.7 113.0 169.4  
100 31.8 25.3 37.9



#44  
2,2,4-Trimethylpentane  
Concen: 14.325 ppbv  
RT: 7.88 min Scan# 1585  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 57 Resp: 6440838  
Ion Ratio Lower Upper  
57 100  
41 34.0 27.0 40.4  
56 32.7 25.6 38.4

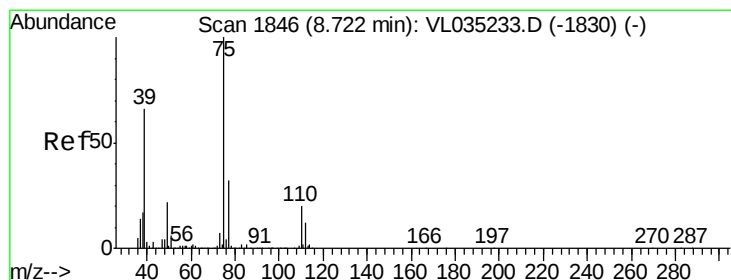
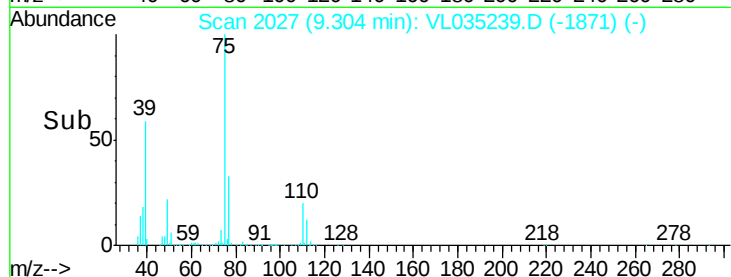
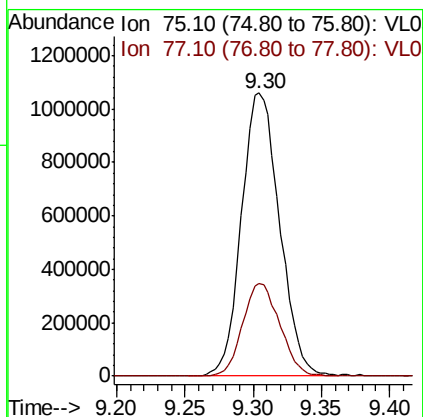
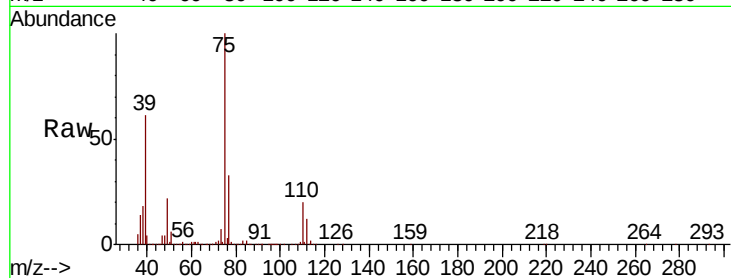




#45  
t-1,3-Dichloropropene  
Concen: 17.788 ppbv  
RT: 9.30 min Scan# 2027  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

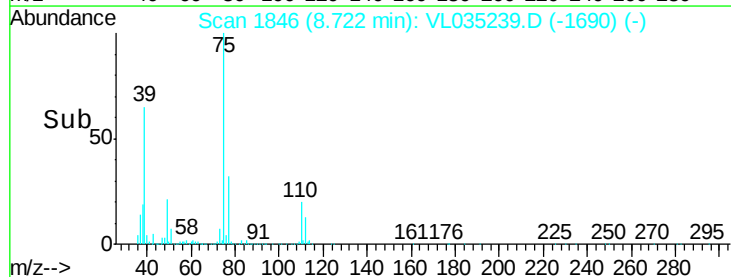
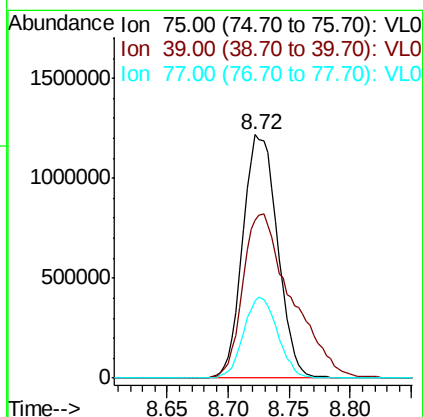
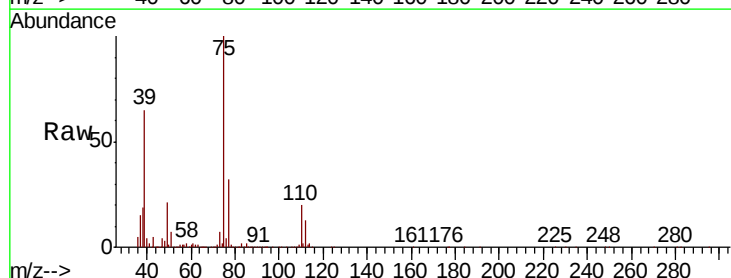
Instrument :  
MSVOA\_L  
ClientSampleId :

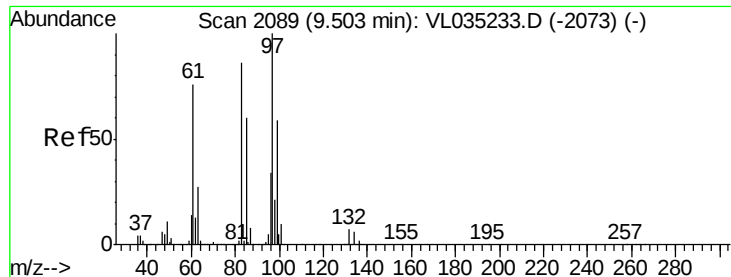
Tot Ion: 75 Resp: 2054488  
Ion Ratio Lower Upper  
75 100  
77 32.9 25.6 38.4



#46  
cis-1,3-Dichloropropene  
Concen: 17.405 ppbv  
RT: 8.72 min Scan# 1846  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 75 Resp: 2391841  
Ion Ratio Lower Upper  
75 100  
39 64.7 53.0 79.4  
77 31.9 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 14.713 ppbv

RT: 9.50 min Scan# 2089

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 97 Resp: 1676583

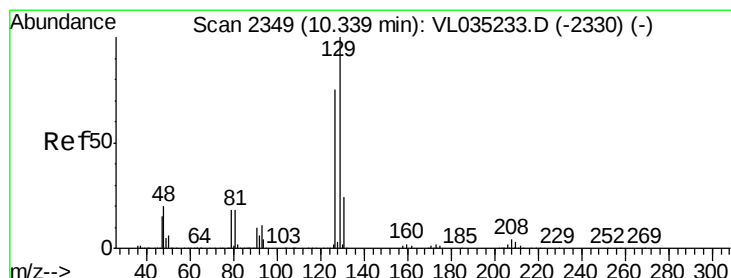
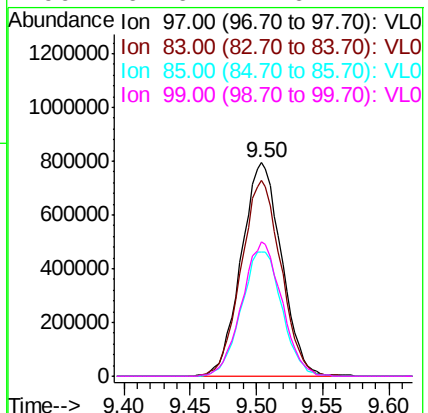
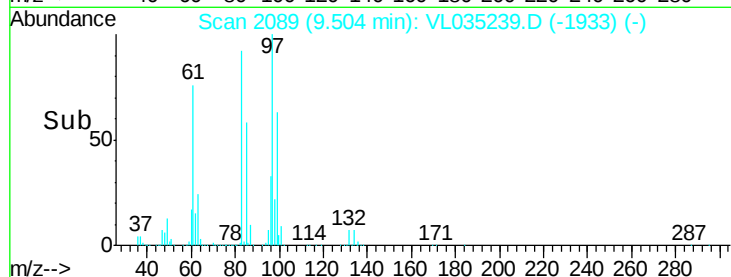
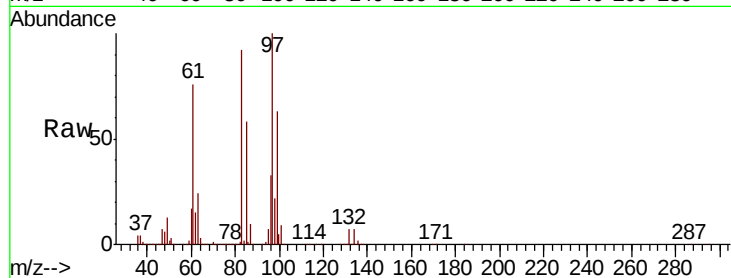
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 91.8  | 69.0  | 103.4 |
| 85  | 58.0  | 47.8  | 71.8  |
| 99  | 62.6  | 47.6  | 71.4  |

97 100

83 91.8 69.0 103.4

85 58.0 47.8 71.8

99 62.6 47.6 71.4



#48

Dibromochloromethane

Concen: 15.392 ppbv

RT: 10.34 min Scan# 2349

Delta R.T. 0.00 min

Lab File: VL035239.D

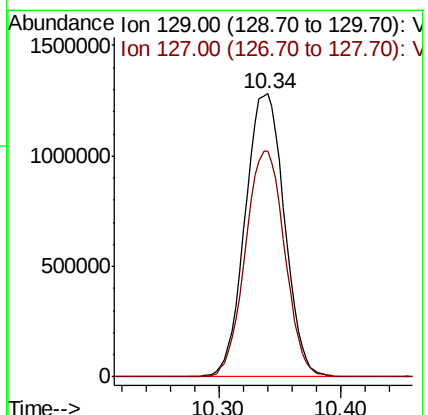
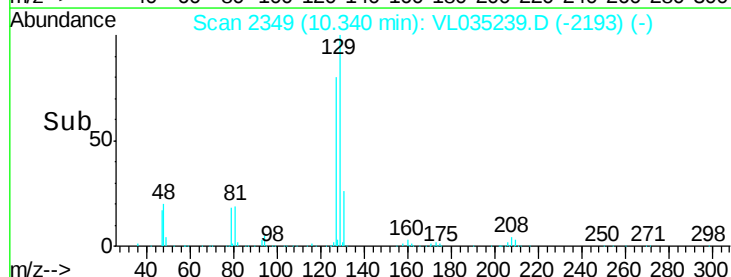
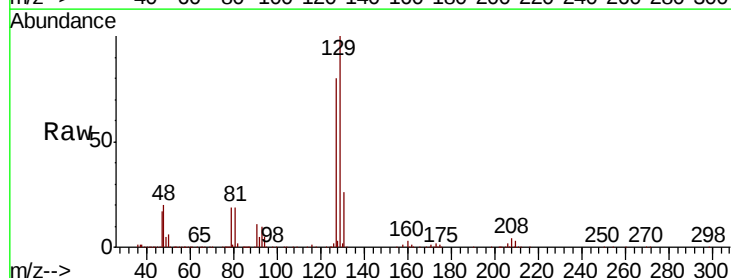
Acq: 29 Jul 2020 6:34

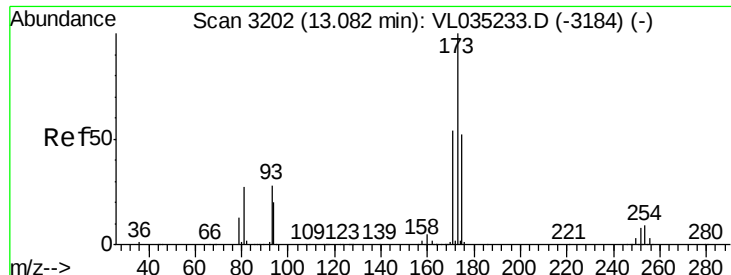
Tgt Ion: 129 Resp: 2849985

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 80.0  | 39.6  | 119.0 |

129 100

127 80.0 39.6 119.0





#49

Bromoform

Concen: 15.950 ppbv

RT: 13.09 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

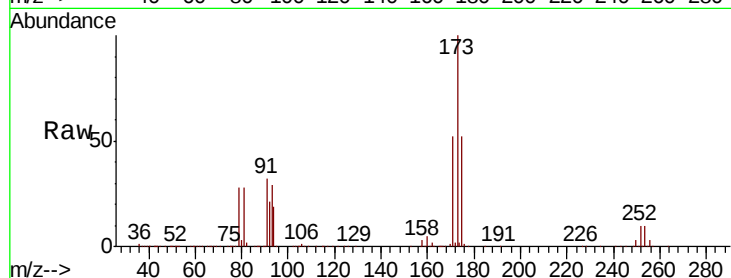
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:173 Resp: 2607644

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 50.0  | 40.0  | 60.0  |
| 171 | 52.3  | 41.8  | 62.8  |

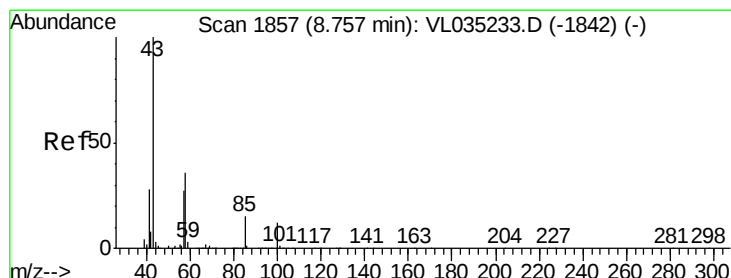
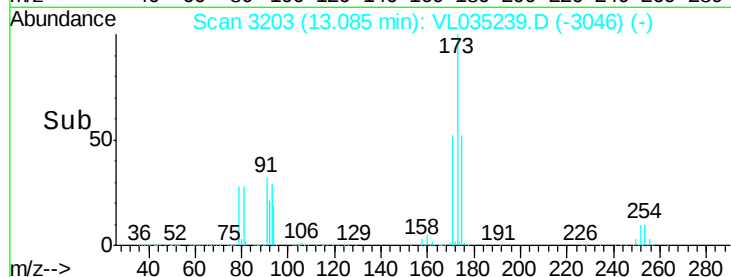
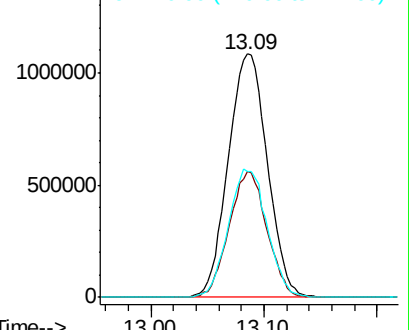


Abundance

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: 15.134 ppbv

RT: 8.76 min Scan# 1857

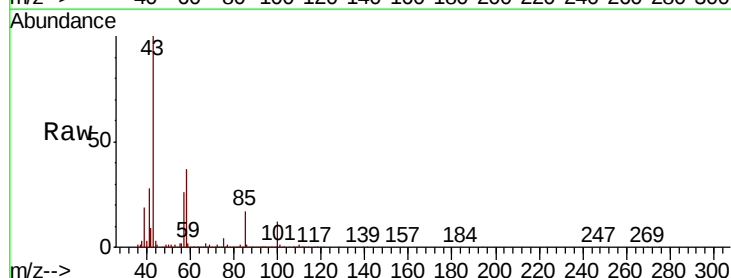
Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 43 Resp: 4161801

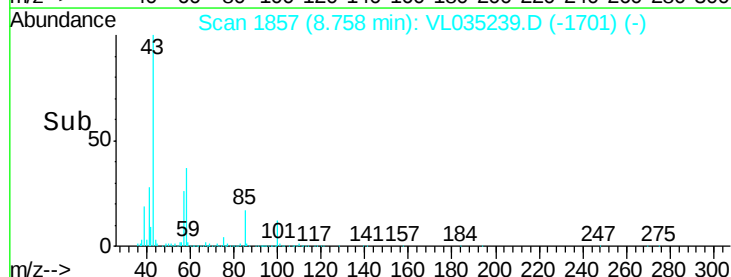
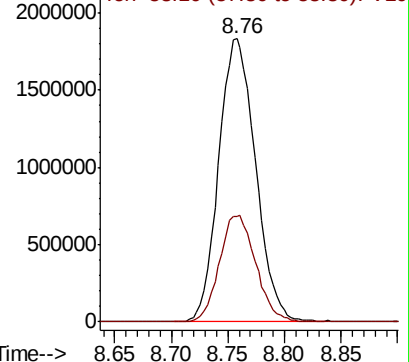
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 37.2  | 30.0  | 45.0  |

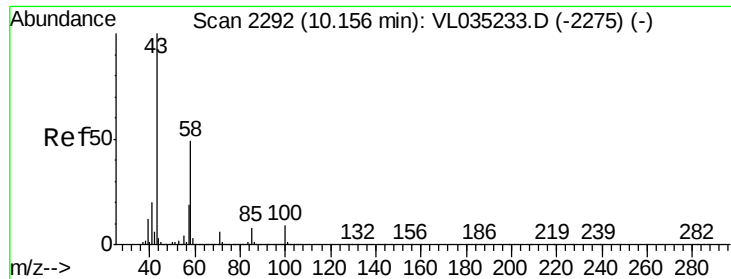


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.235 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampled :

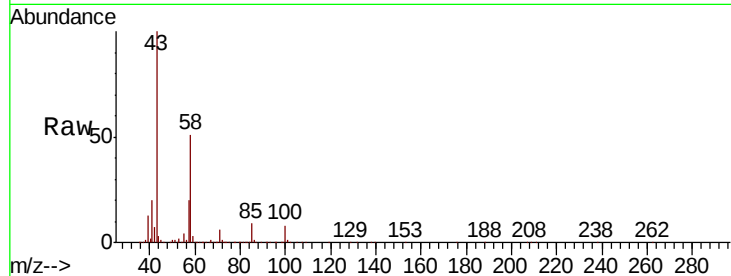
Tot Ion: 43 Resp: 3418263

Ion Ratio Lower Upper

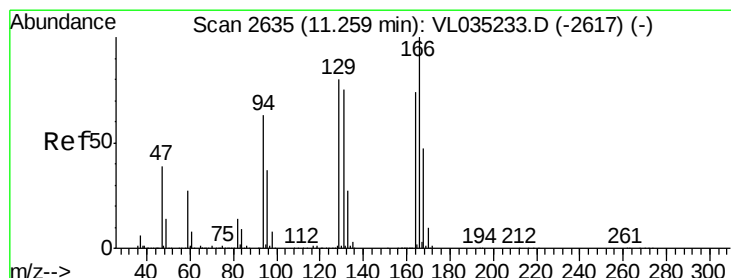
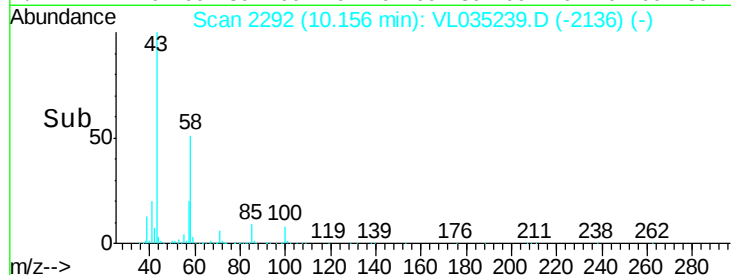
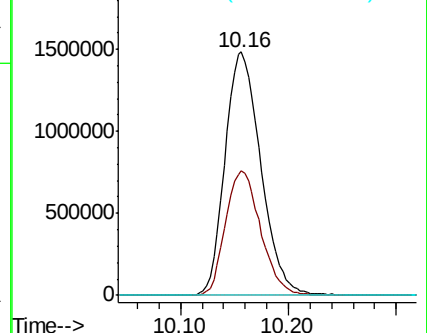
43 100

58 50.4 38.8 58.2

98 0.4 0.6 0.8#



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: 14.593 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion:164 Resp: 1424577

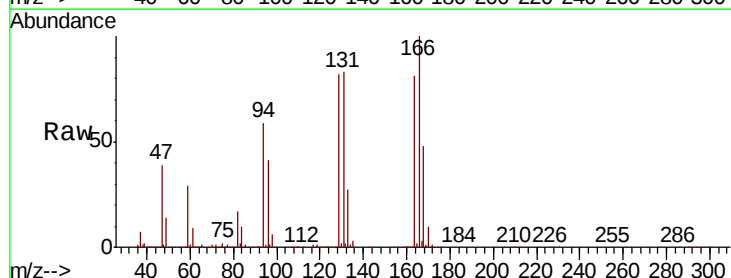
Ion Ratio Lower Upper

164 100

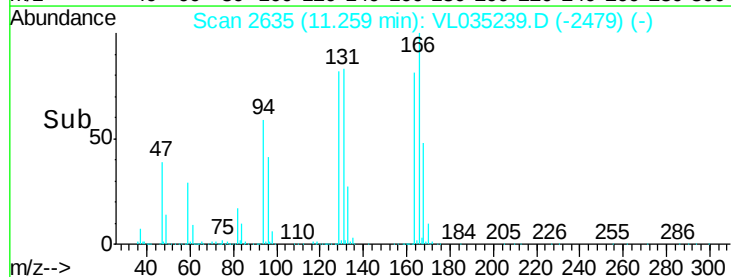
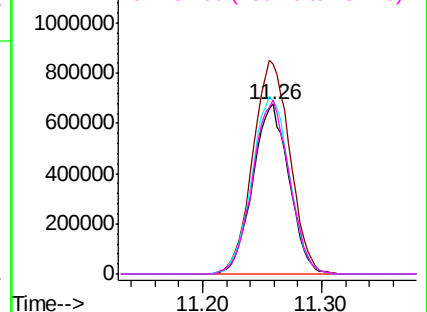
166 124.0 107.5 161.3

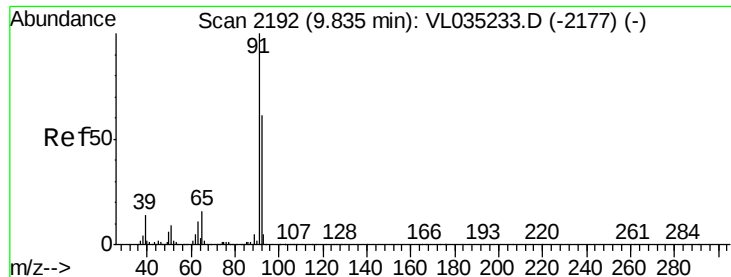
129 101.9 86.0 129.0

131 102.3 80.3 120.5



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: 16.335 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

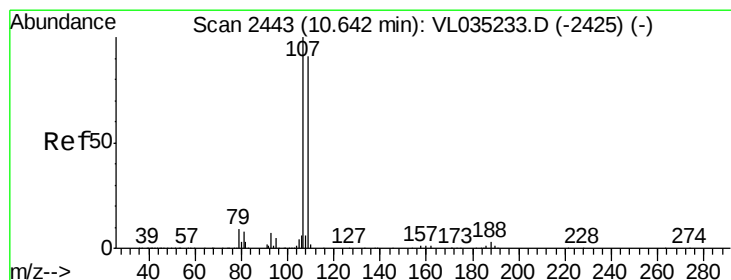
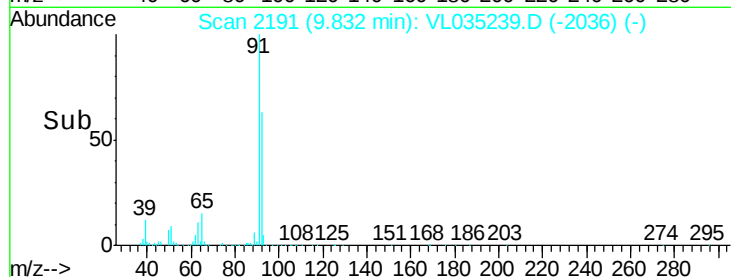
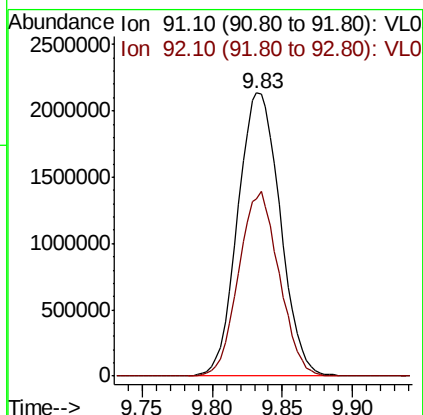
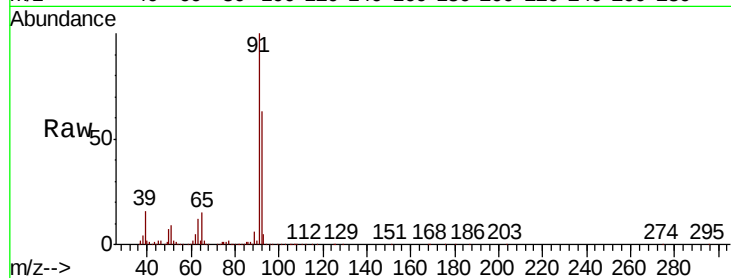
ClientSampleId :

Tot Ion: 91 Resp: 4492585

Ion Ratio Lower Upper

91 100

92 62.4 48.5 72.7



#54

1,2-Dibromoethane

Concen: 15.090 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL035239.D

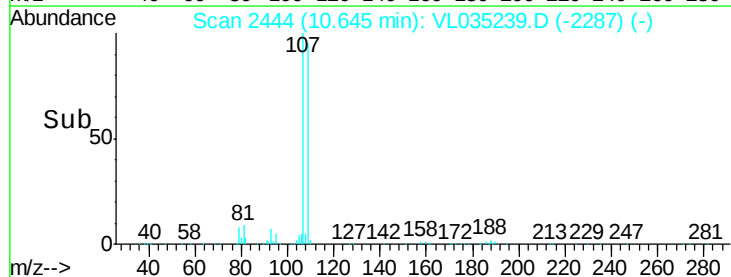
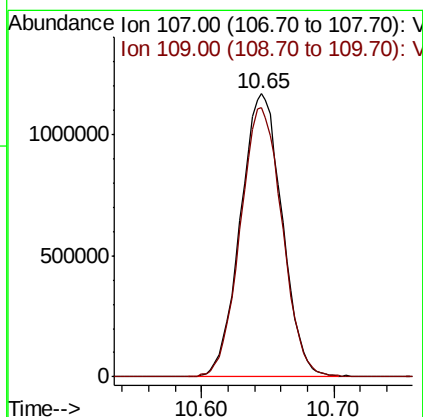
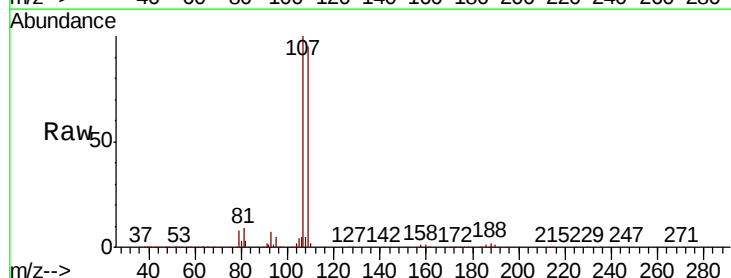
Acq: 29 Jul 2020 6:34

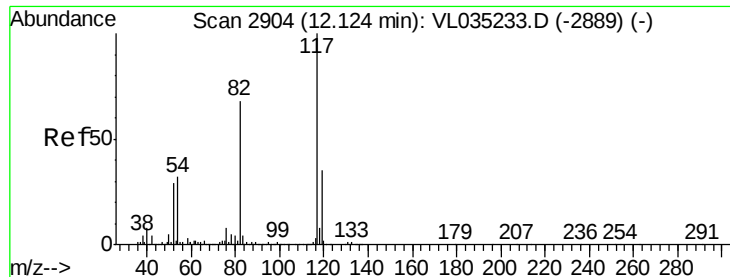
Tgt Ion: 107 Resp: 2549650

Ion Ratio Lower Upper

107 100

109 95.2 73.0 109.6

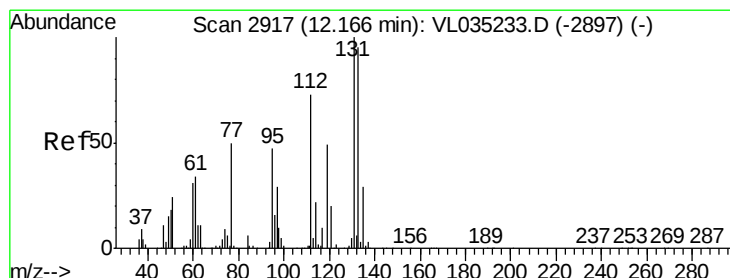
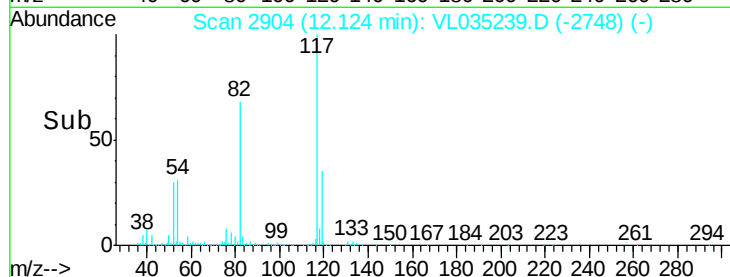
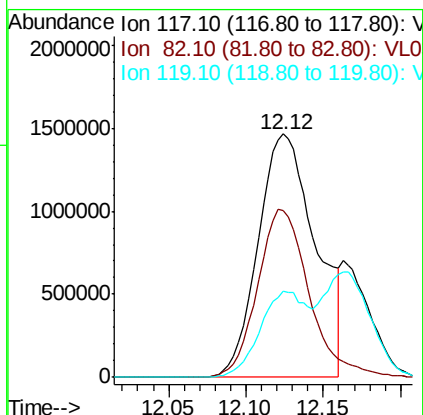
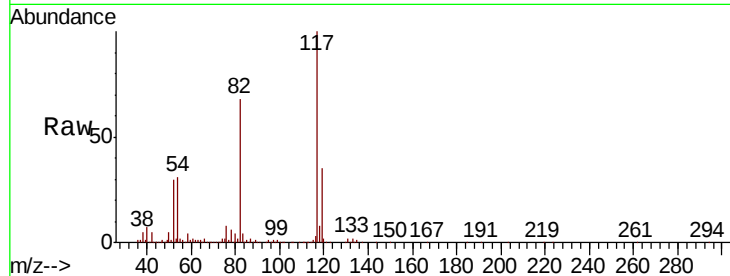




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

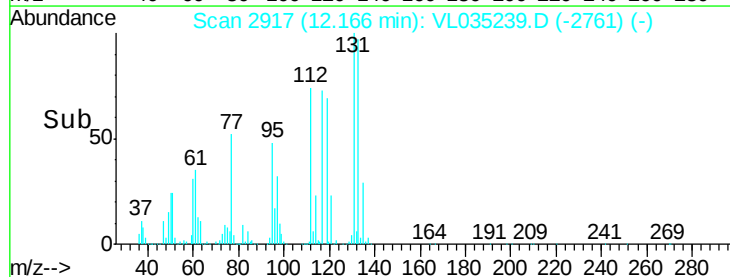
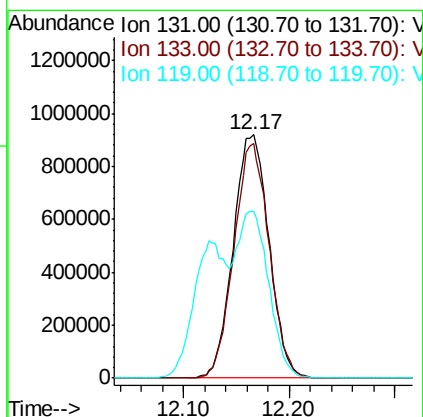
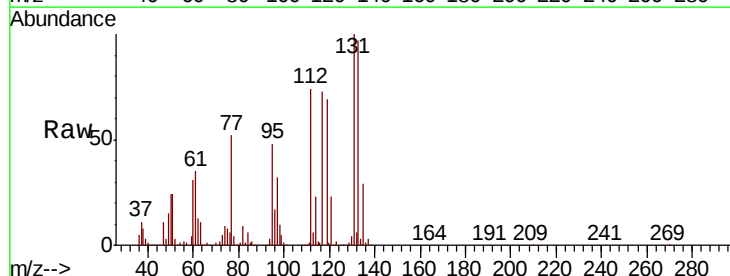
Instrument :  
MSVOA\_L  
ClientSampleId :

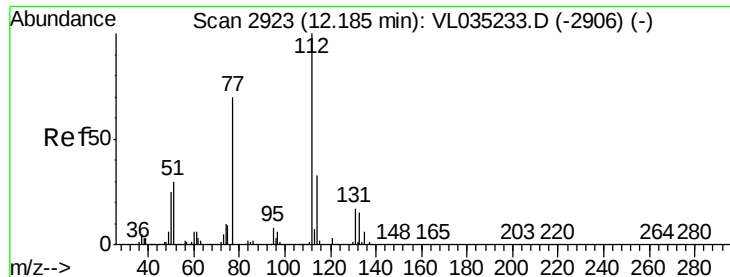
Tot Ion:117 Resp: 3791698  
Ion Ratio Lower Upper  
117 100  
82 62.1 52.4 78.6  
119 0.0 24.6 36.8#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 12.673 ppbv  
RT: 12.17 min Scan# 2917  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion:131 Resp: 2158428  
Ion Ratio Lower Upper  
131 100  
133 95.3 76.1 114.1  
119 59.3 44.3 66.5

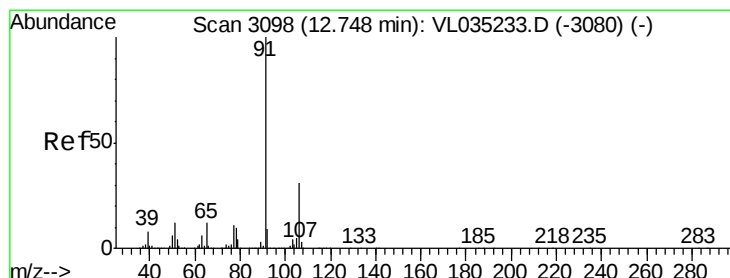
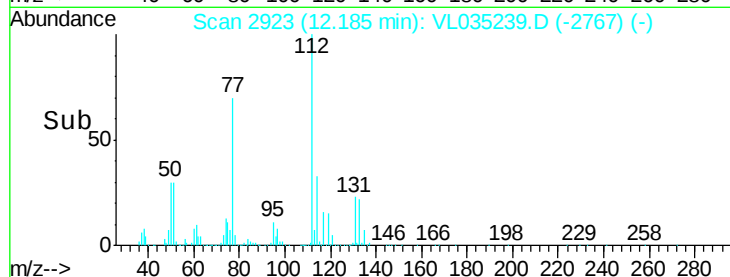
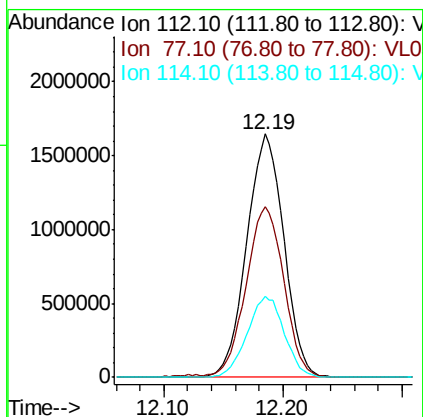
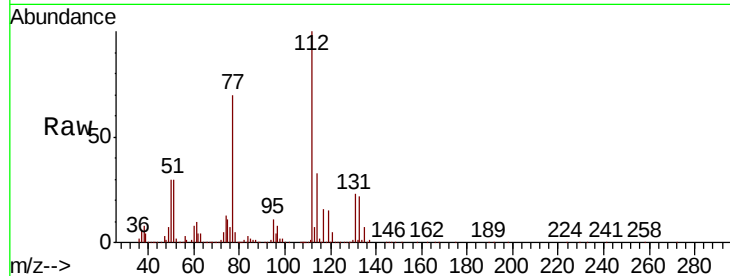




#57  
Chlorobenzene  
Concen: 12.537 ppbv  
RT: 12.19 min Scan# 2923  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

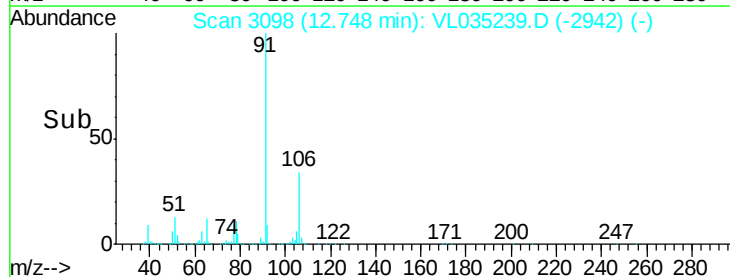
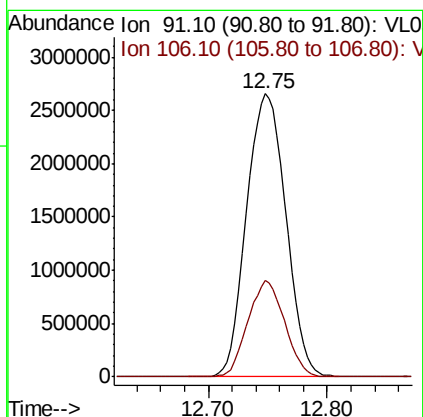
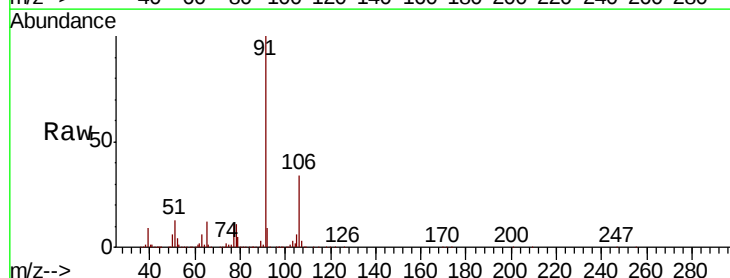
Instrument :  
MSVOA\_L  
ClientSampled :

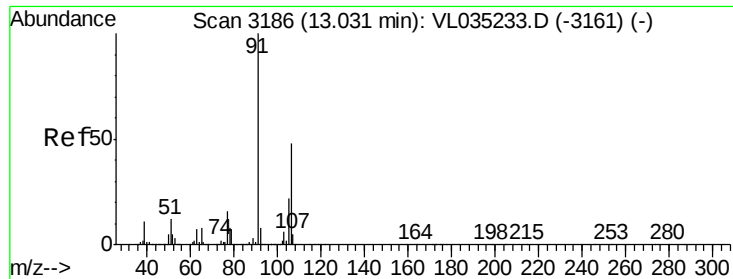
Tot Ion:112 Resp: 3558375  
Ion Ratio Lower Upper  
112 100  
77 70.2 57.3 85.9  
114 33.4 29.3 35.8



#58  
Ethyl Benzene  
Concen: 14.335 ppbv  
RT: 12.75 min Scan# 3098  
Delta R.T. 0.00 min  
Lab File: VL035239.D  
Acq: 29 Jul 2020 6:34

Tgt Ion: 91 Resp: 6077426  
Ion Ratio Lower Upper  
91 100  
106 33.9 25.0 37.6





#59

m/p-Xylene

Concen: 13.599 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

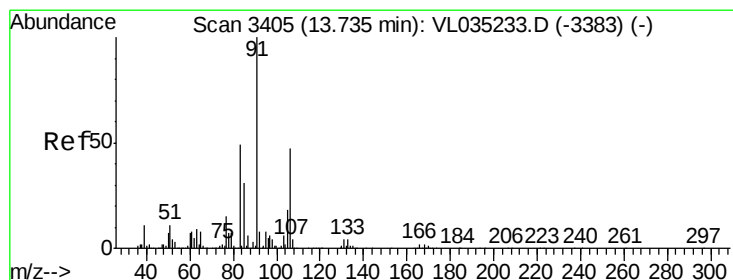
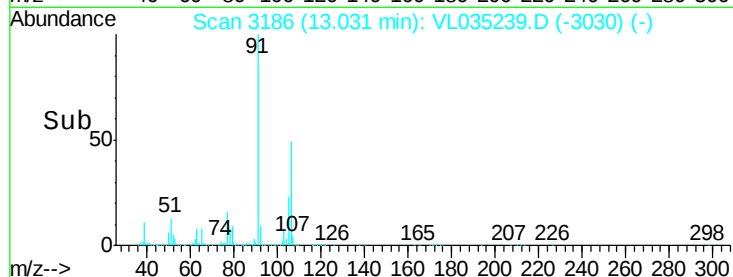
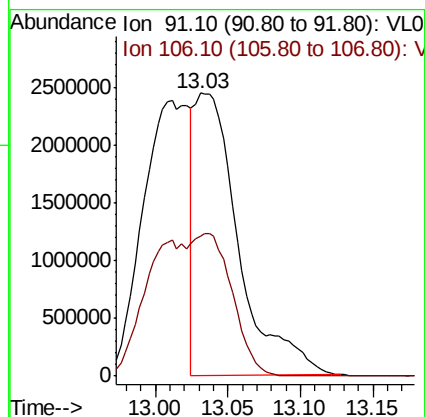
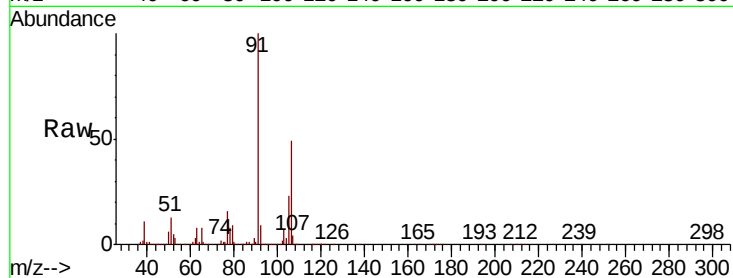
ClientSampleId :

Tot Ion: 91 Resp: 5154129

Ion Ratio Lower Upper

91 100

106 93.6 37.2 55.8#



#60

o-Xylene

Concen: 13.668 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. 0.00 min

Lab File: VL035239.D

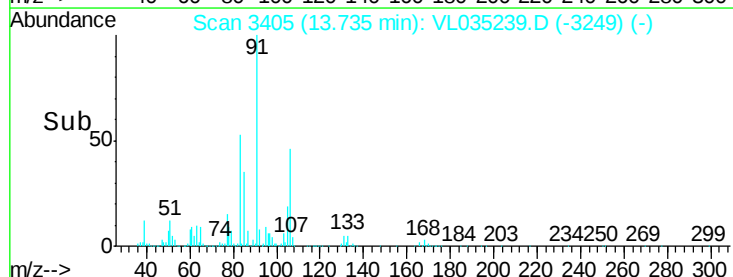
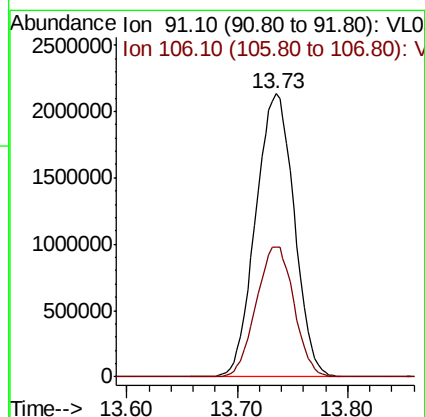
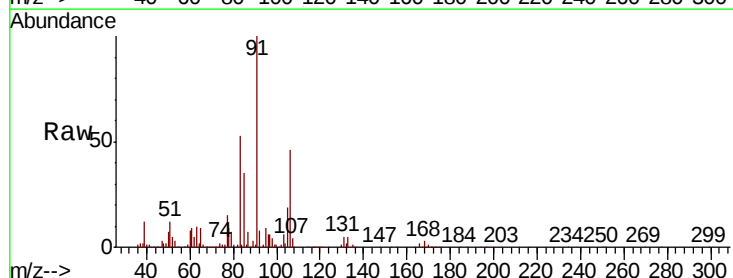
Acq: 29 Jul 2020 6:34

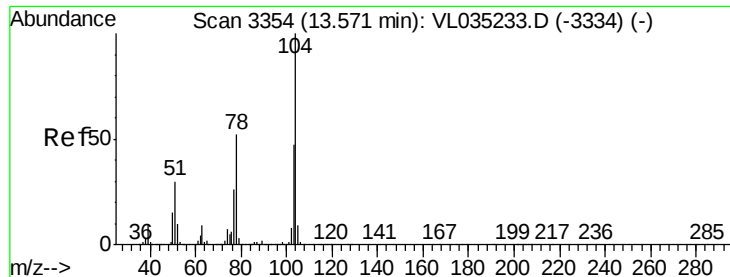
Tgt Ion: 91 Resp: 5168603

Ion Ratio Lower Upper

91 100

106 45.1 22.4 67.0





#61

Stvrene

Concen: 16.100 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

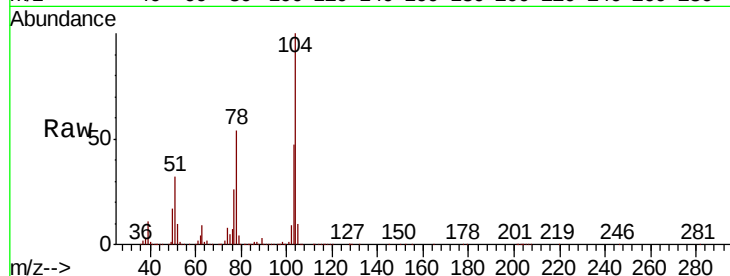
Tot Ion:104 Resp: 3759763

Ion Ratio Lower Upper

104 100

78 55.0 43.3 64.9

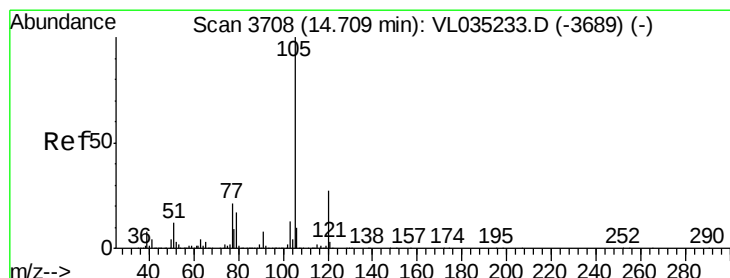
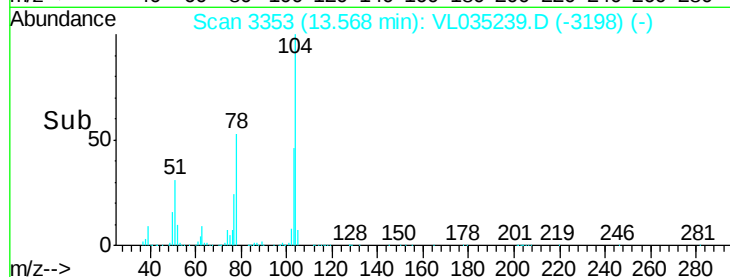
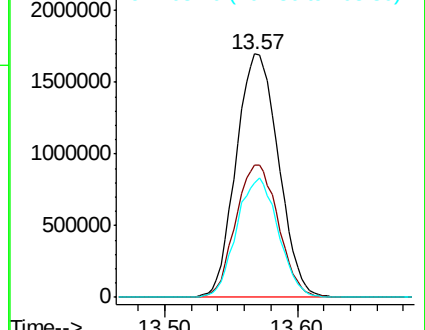
103 48.4 38.2 57.2



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: 13.195 ppbv

RT: 14.71 min Scan# 3709

Delta R.T. 0.00 min

Lab File: VL035239.D

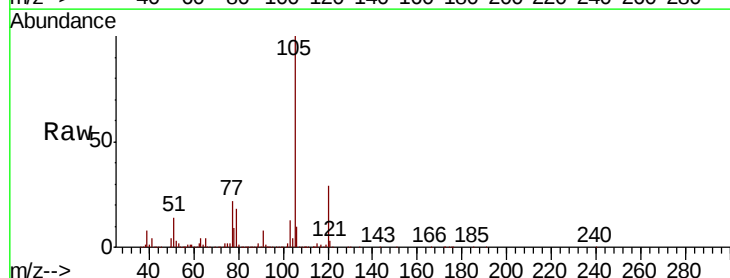
Acq: 29 Jul 2020 6:34

Tgt Ion:105 Resp: 7397840

Ion Ratio Lower Upper

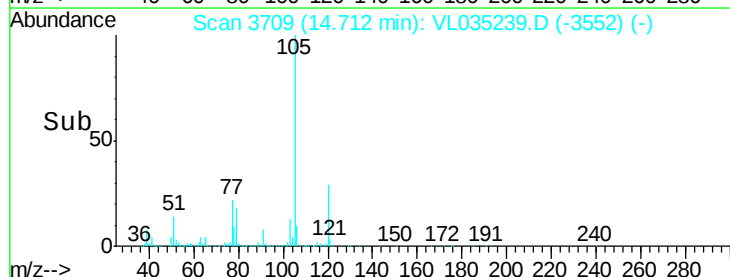
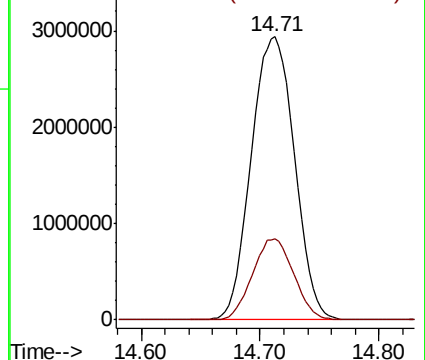
105 100

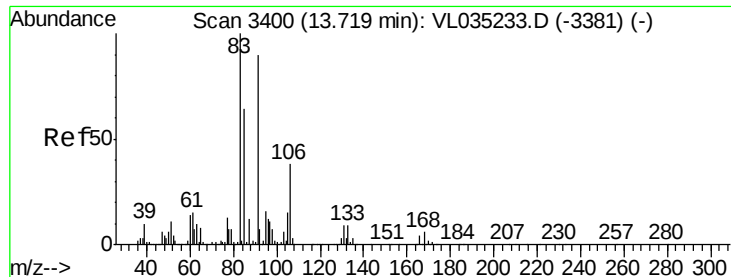
120 27.3 20.8 31.2



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: 11.939 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampled :

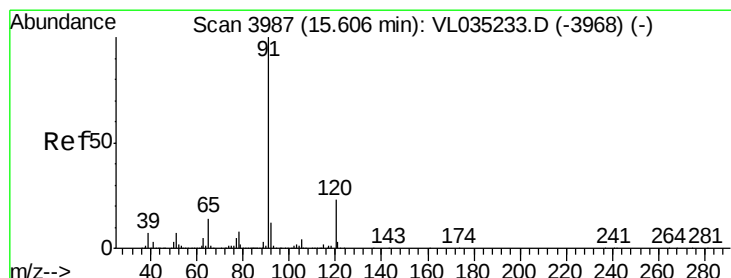
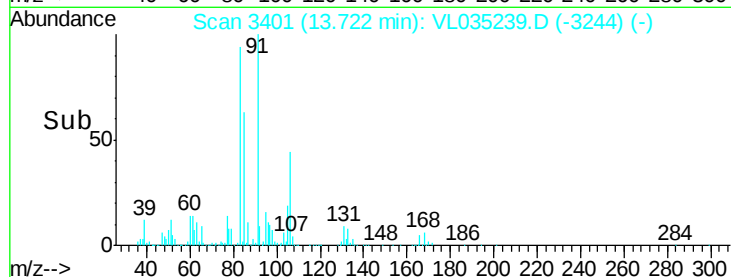
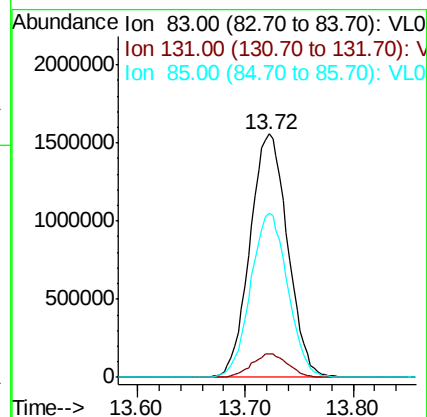
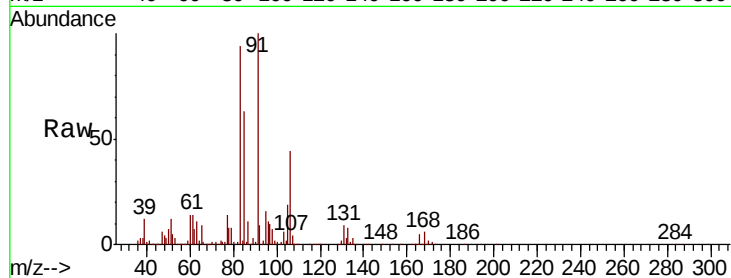
Tot Ion: 83 Resp: 3771546

Ion Ratio Lower Upper

83 100

131 9.4 4.6 13.8

85 66.6 32.7 98.1



#64

n-propylbenzene

Concen: 14.518 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. 0.00 min

Lab File: VL035239.D

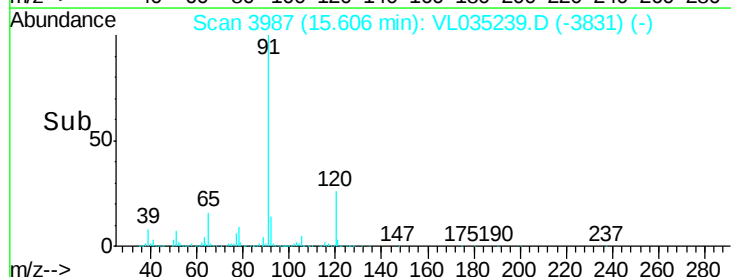
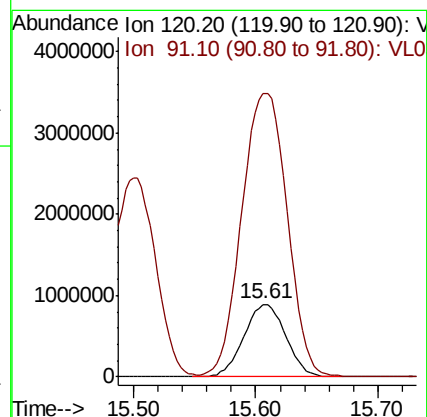
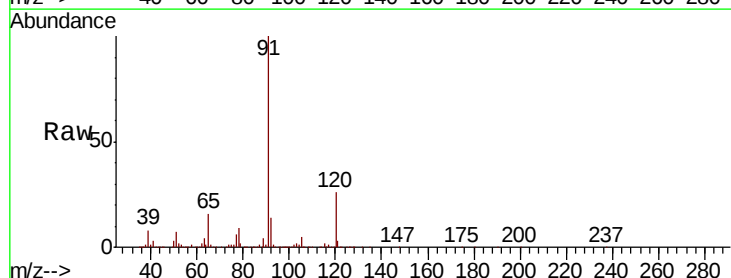
Acq: 29 Jul 2020 6:34

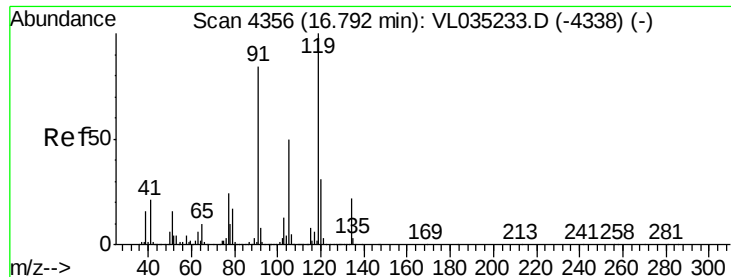
Tgt Ion: 120 Resp: 2107150

Ion Ratio Lower Upper

120 100

91 427.4 367.5 551.3





#65

tert-Butylbenzene

Concen: 13.221 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

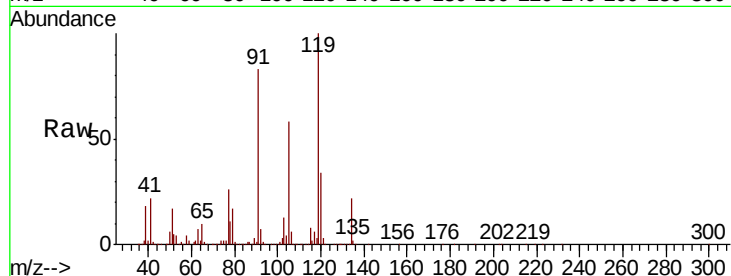
Tot Ion:119 Resp: 6654544

Ion Ratio Lower Upper

119 100

91 84.2 68.0 102.0

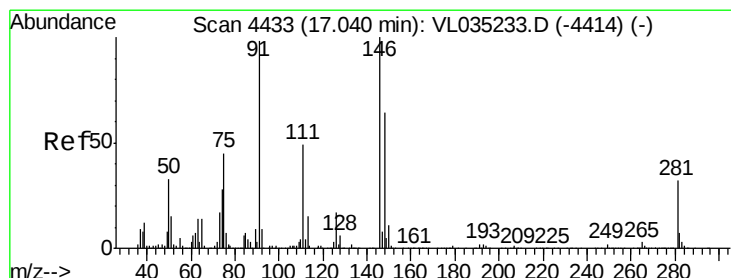
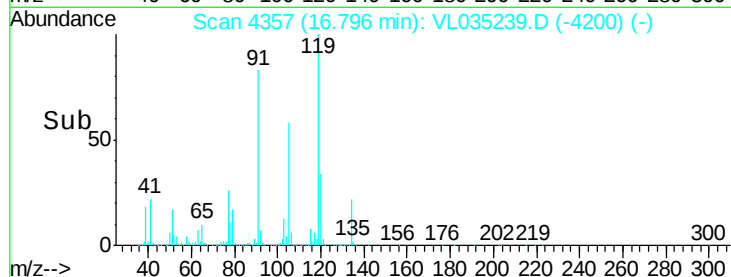
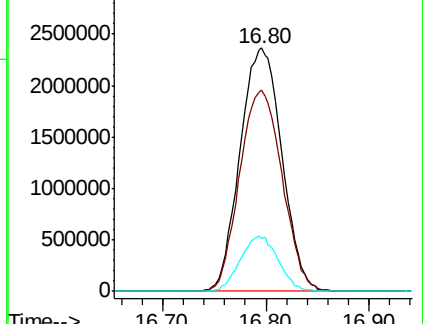
134 20.7 16.3 24.5



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.677 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

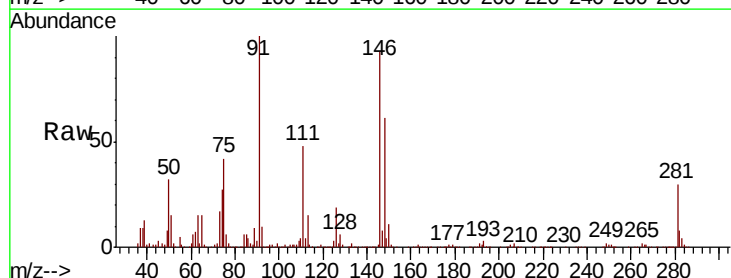
Tgt Ion: 91 Resp: 1754359

Ion Ratio Lower Upper

91 100

126 29.8 14.1 21.1#

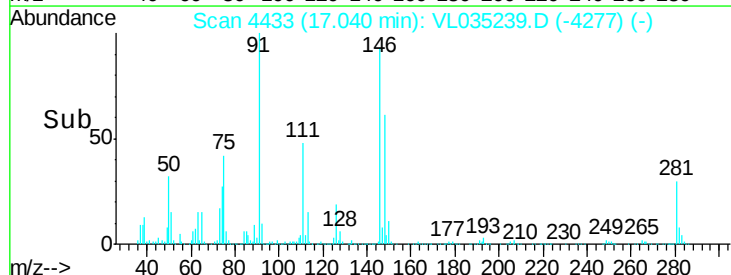
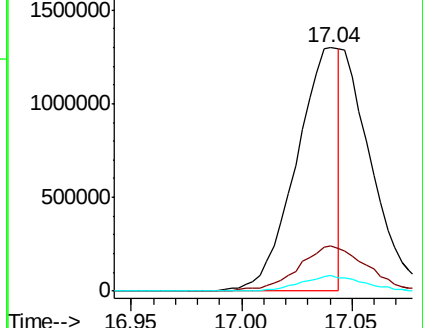
128 9.3 4.4 6.6#

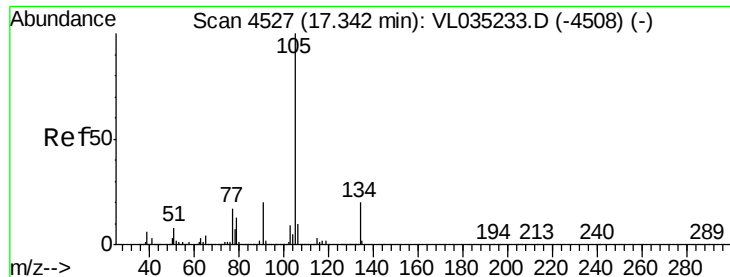


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 12.616 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

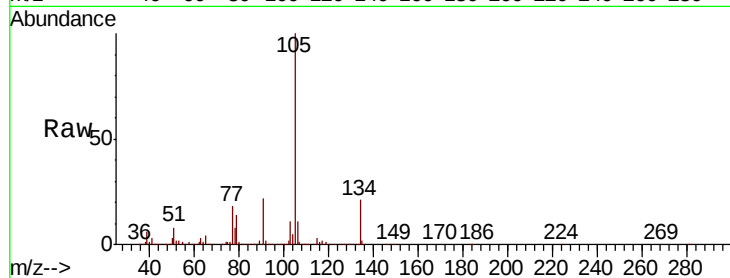
ClientSampleId :

Tot Ion:105 Resp: 9248837

Ion Ratio Lower Upper

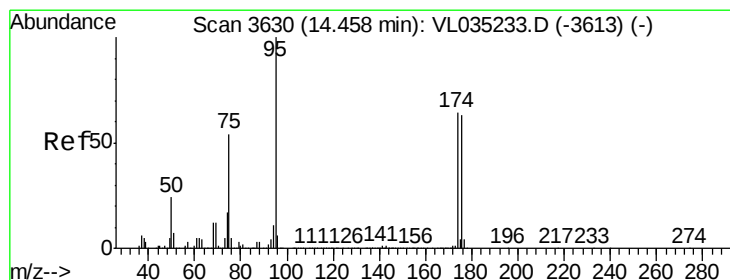
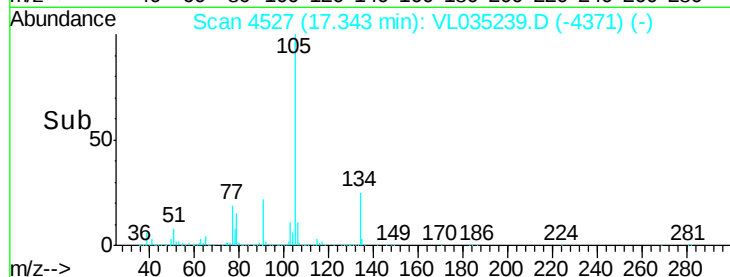
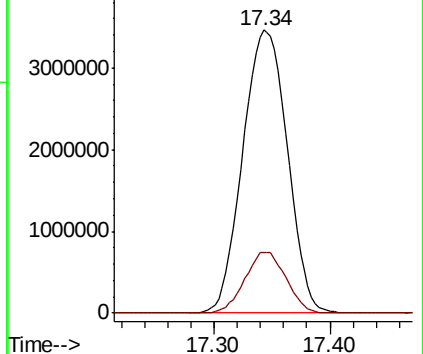
105 100

134 20.1 15.0 22.4



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: 9.078 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

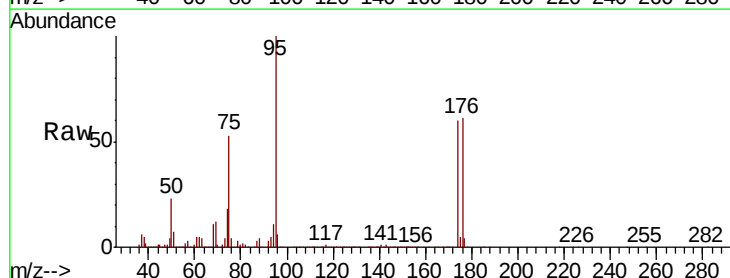
Tgt Ion: 95 Resp: 2802055

Ion Ratio Lower Upper

95 100

174 65.4 52.7 79.1

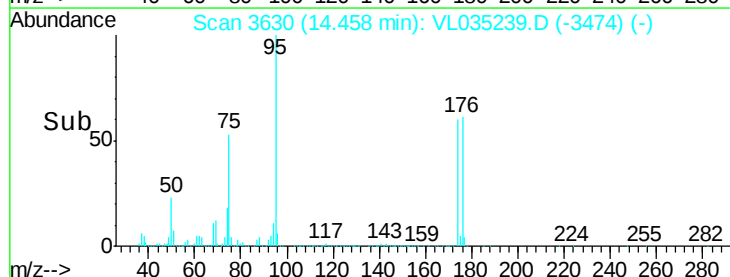
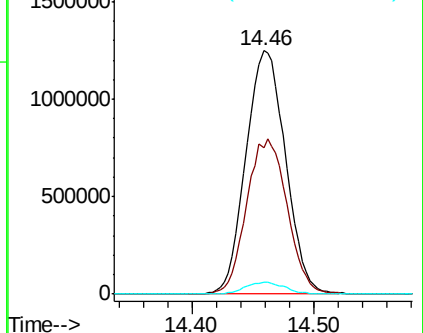
175 4.8 3.9 5.9

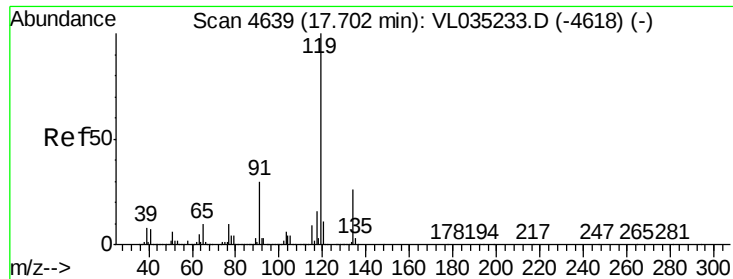


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

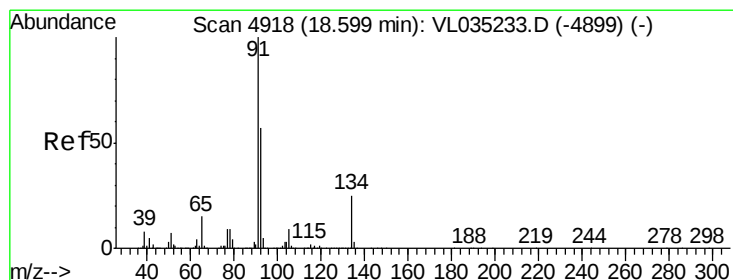
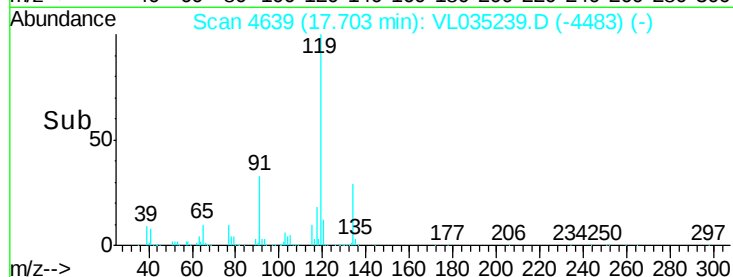
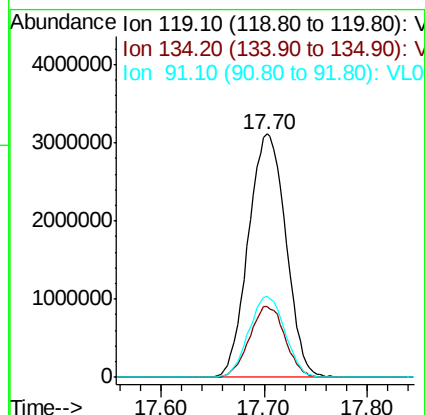
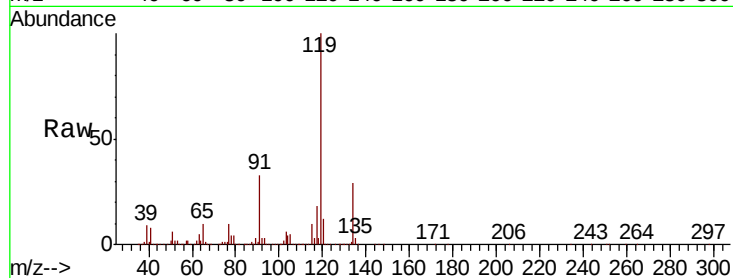




#69  
 p-Isopropyltoluene  
 Concen: 13.575 ppbv  
 RT: 17.70 min Scan# 4639  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

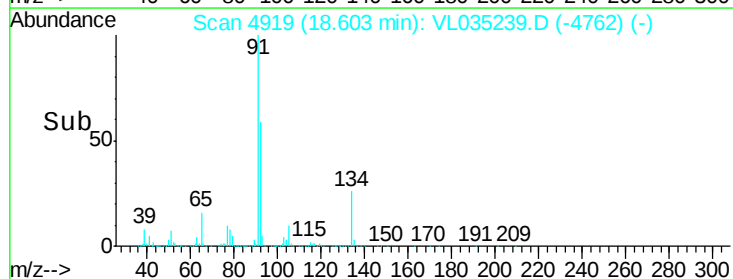
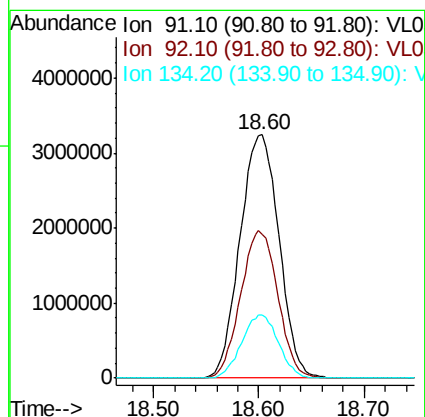
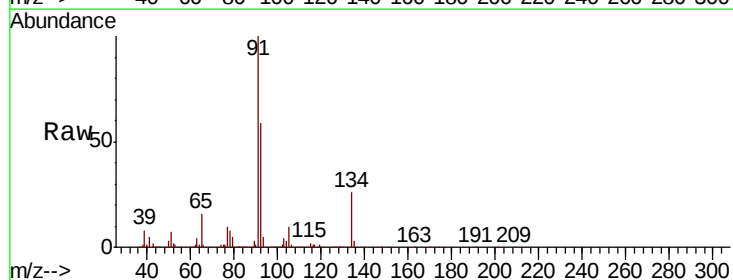
Instrument :  
 MSVOA\_L  
 ClientSampleId :

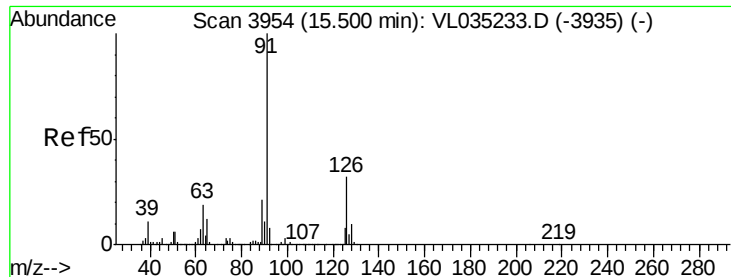
Tot Ion:119 Resp: 7858743  
 Ion Ratio Lower Upper  
 119 100  
 134 27.7 20.8 31.2  
 91 32.0 24.7 37.1



#70  
 n-Butylbenzene  
 Concen: 13.586 ppbv  
 RT: 18.60 min Scan# 4919  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion: 91 Resp: 8341122  
 Ion Ratio Lower Upper  
 91 100  
 92 57.9 44.9 67.3  
 134 24.6 18.6 28.0





#71

2-Chlorotoluene

Concen: 14.030 ppbv

RT: 15.50 min Scan# 3954

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

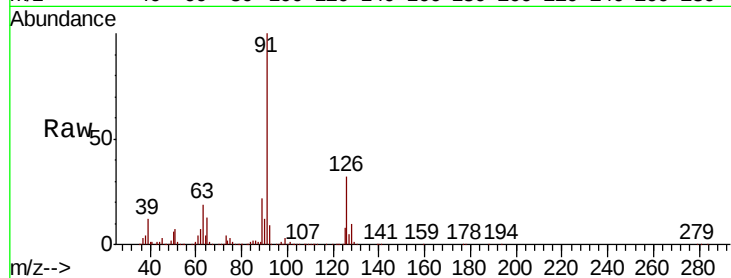
ClientSampleId :

Tot Ion: 91 Resp: 5954889

Ion Ratio Lower Upper

91 100

126 31.1 12.3 49.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

4000000

3000000

2000000

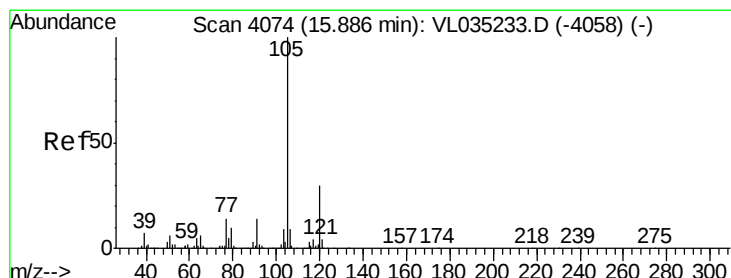
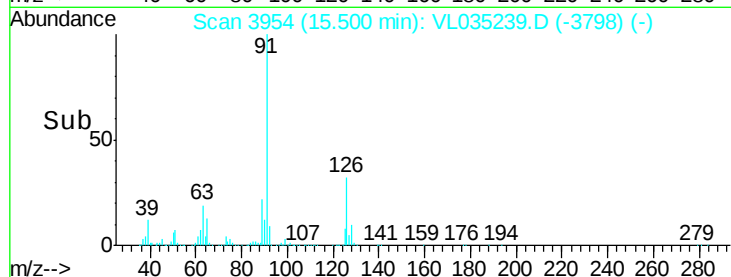
1000000

0

15.40

15.50

Time-->



#72

4-Ethyltoluene

Concen: 14.272 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion: 105 Resp: 6100780

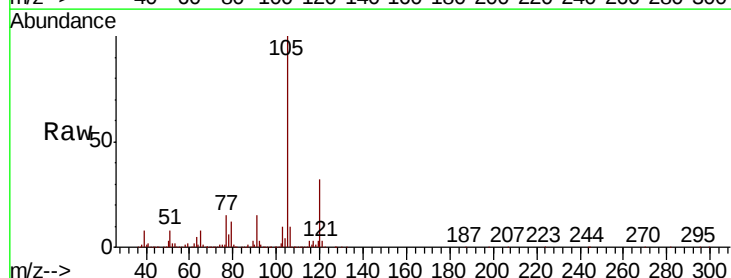
Ion Ratio Lower Upper

105 100

120 30.8 23.6 35.4

91 13.6 11.0 16.6

77 15.0 11.7 17.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000000

3000000

2000000

1000000

0

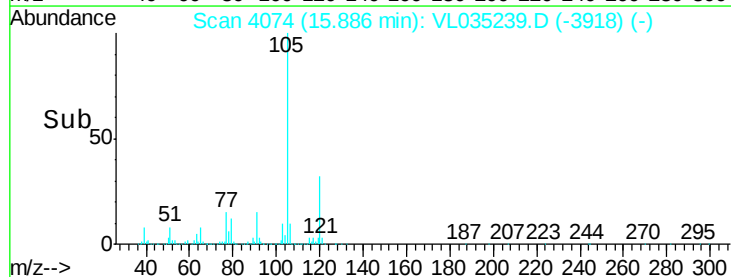
15.80

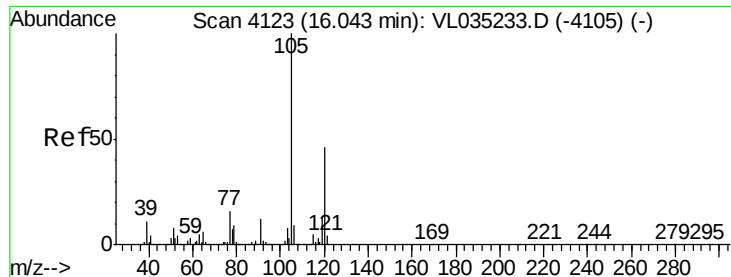
15.85

15.90

15.95

Time-->

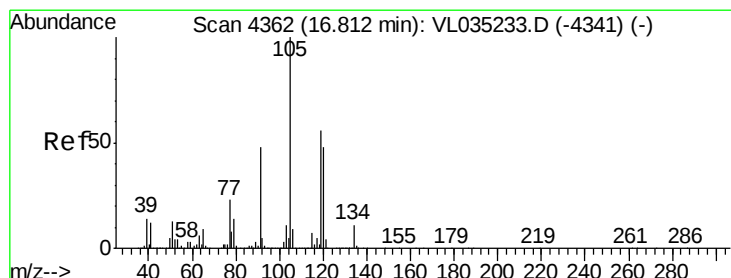
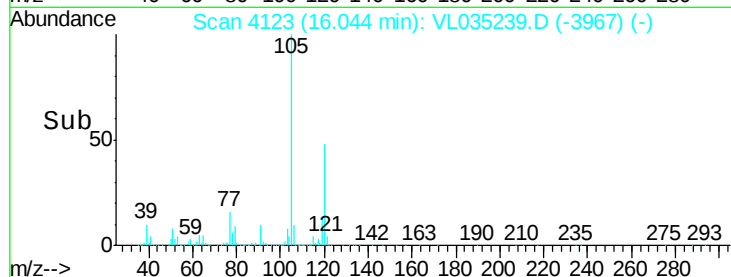
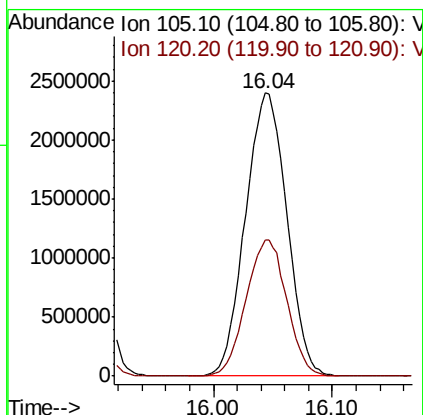
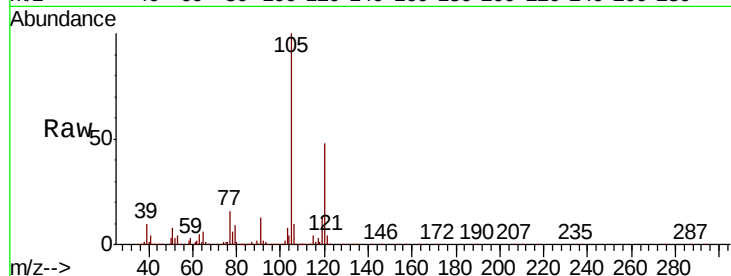




#73  
 1,3,5-Trimethylbenzene  
 Concen: 14.001 ppbv  
 RT: 16.04 min Scan# 4123  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

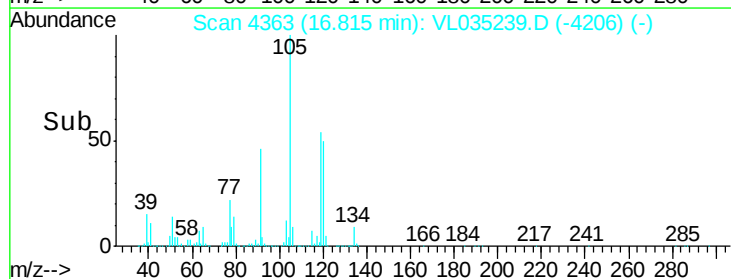
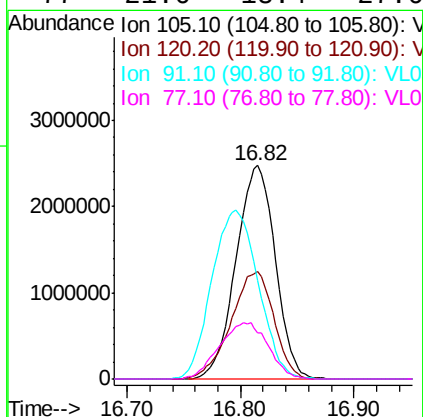
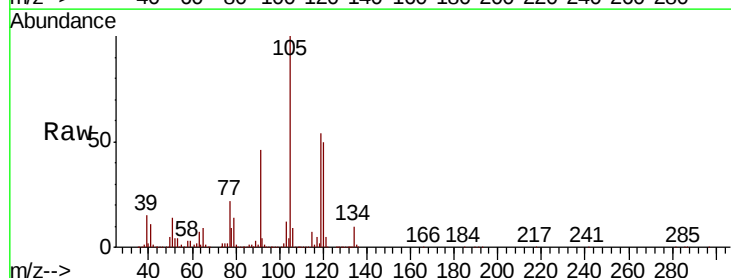
Instrument :  
 MSVOA\_L  
 ClientSampled :

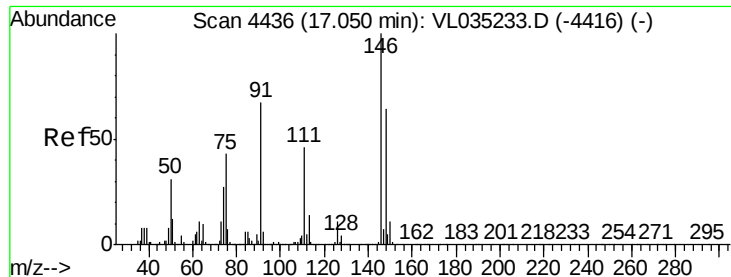
Tot Ion:105 Resp: 5758523  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 36.8 55.2



#74  
 1,2,4-Trimethylbenzene  
 Concen: 13.079 ppbv  
 RT: 16.82 min Scan# 4363  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion:105 Resp: 5973640  
 Ion Ratio Lower Upper  
 105 100  
 120 50.3 38.8 58.2  
 91 46.3 38.9 58.3  
 77 21.6 18.4 27.6





#75

1,3-Dichlorobenzene

Concen: 12.469 ppbv

RT: 17.05 min Scan# 4437

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

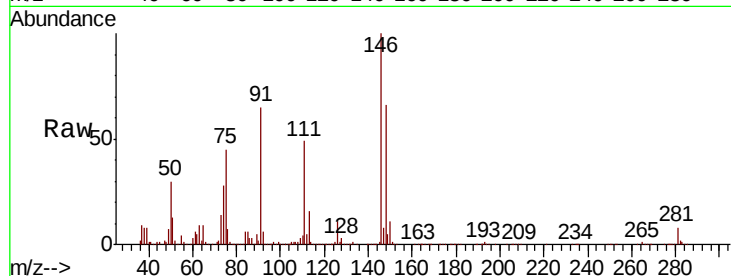
Tot Ion:146 Resp: 3620239

Ion Ratio Lower Upper

146 100

111 49.3 24.4 73.4

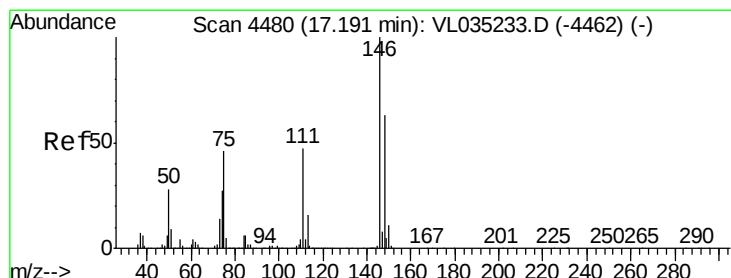
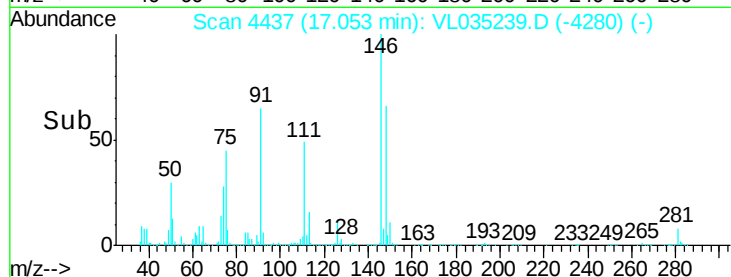
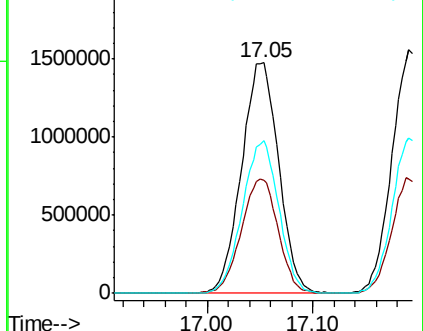
148 65.1 32.1 96.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 13.507 ppbv

RT: 17.19 min Scan# 4480

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

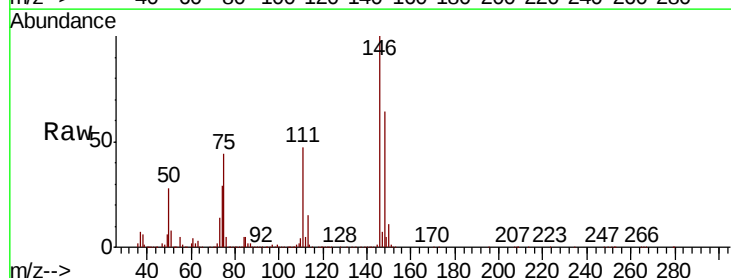
Tgt Ion:146 Resp: 3640361

Ion Ratio Lower Upper

146 100

111 47.4 23.4 70.2

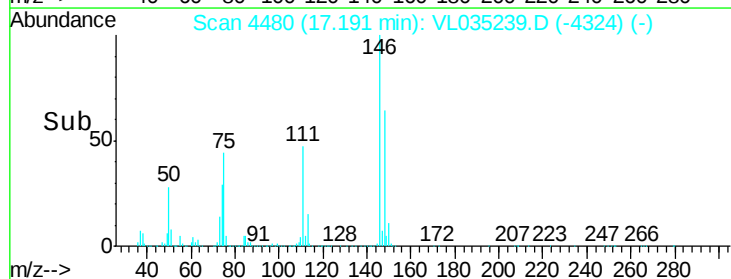
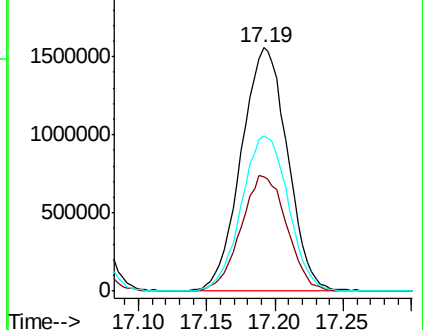
148 65.4 32.2 96.6

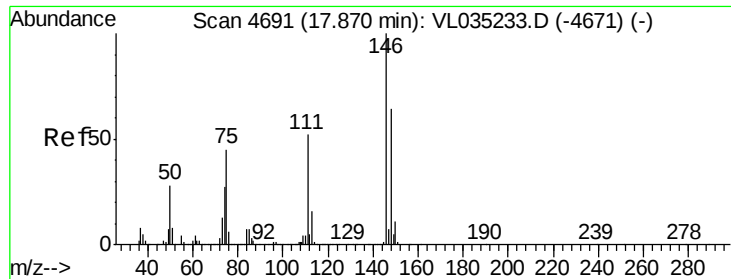


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

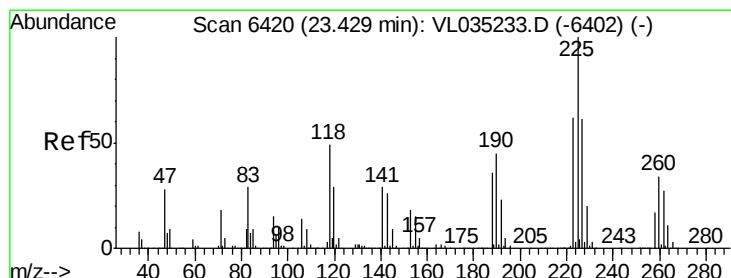
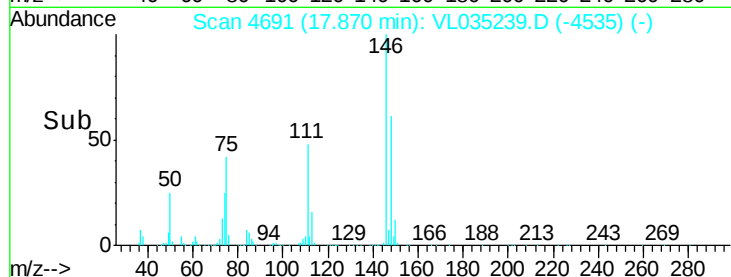
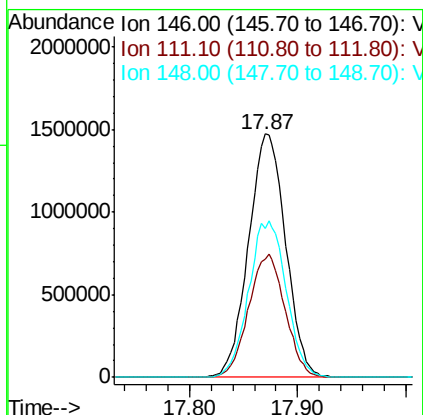
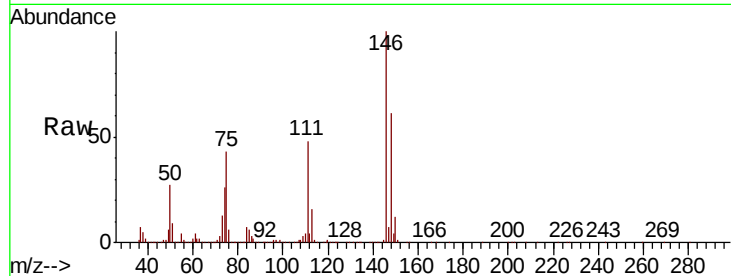




#77  
 1,2-Dichlorobenzene  
 Concen: 13.448 ppbv  
 RT: 17.87 min Scan# 4691  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

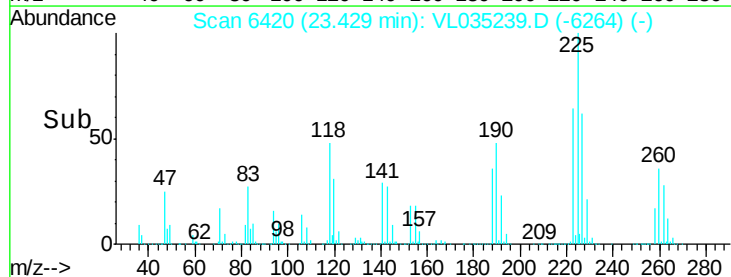
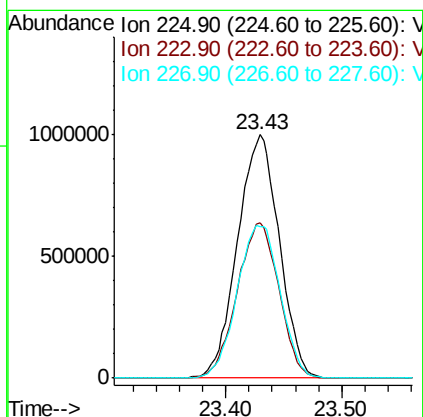
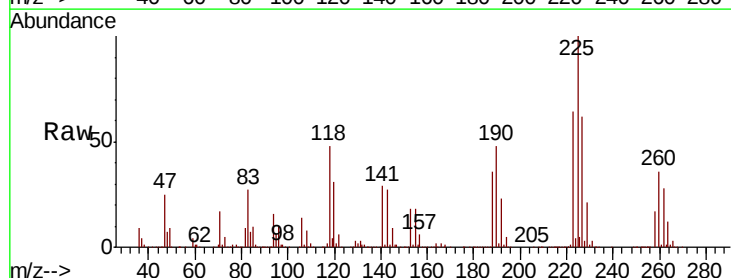
Instrument :  
 MSVOA\_L  
 ClientSampleId :

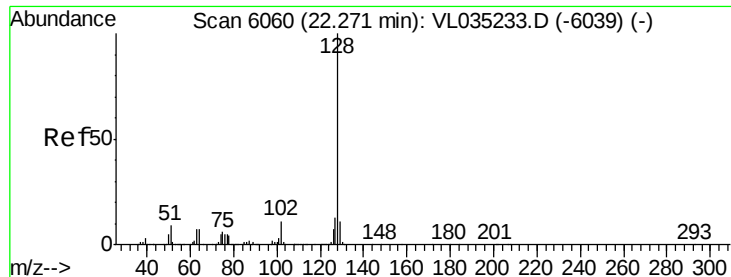
Tot Ion:146 Resp: 3521848  
 Ion Ratio Lower Upper  
 146 100  
 111 49.8 24.6 73.8  
 148 65.1 32.0 96.0



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 12.183 ppbv  
 RT: 23.43 min Scan# 6420  
 Delta R.T. 0.00 min  
 Lab File: VL035239.D  
 Acq: 29 Jul 2020 6:34

Tgt Ion:225 Resp: 2499723  
 Ion Ratio Lower Upper  
 225 100  
 223 63.9 51.3 76.9  
 227 64.8 51.4 77.2





#79

Naphthalene

Concen: 19.082 ppbv

RT: 22.27 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

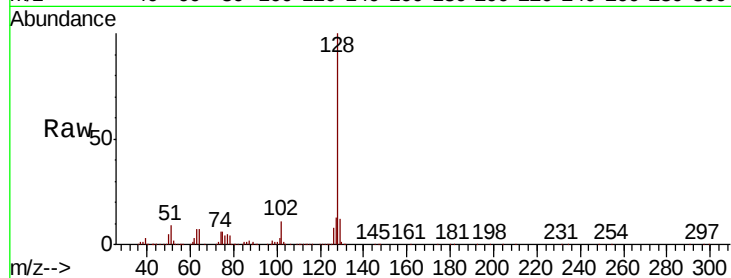
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:128 Resp: 5793985

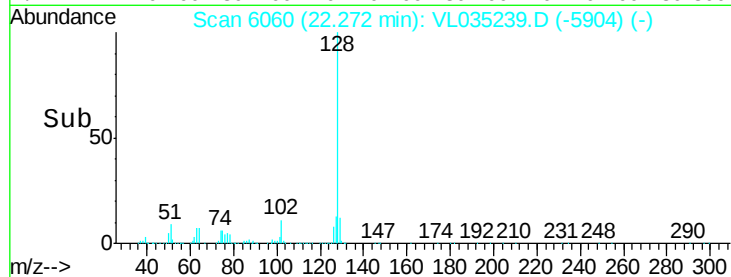
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.3  | 10.4  | 15.6  |
| 129 | 11.9  | 8.5   | 12.7  |



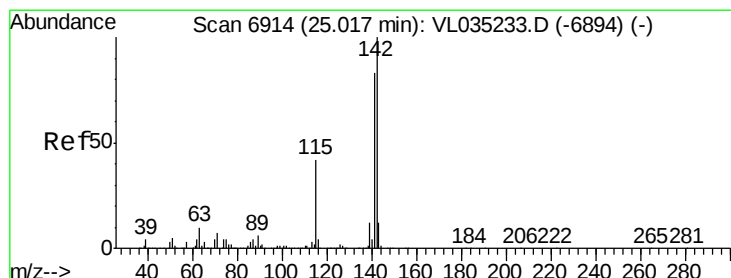
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 31.437 ppbv

RT: 25.02 min Scan# 6914

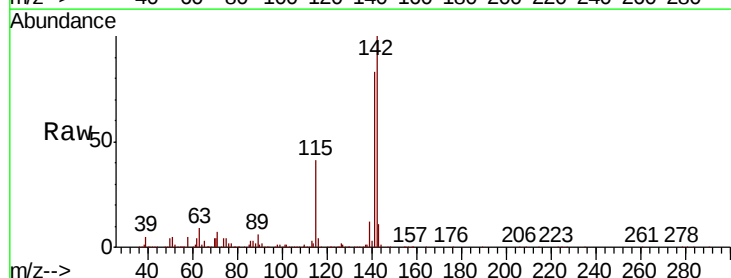
Delta R.T. 0.00 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Tgt Ion:142 Resp: 2274146

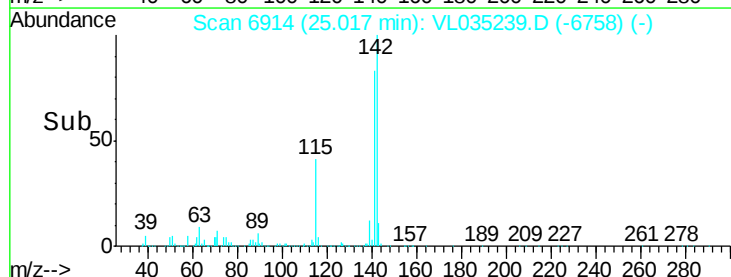
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 84.3  | 68.6  | 103.0 |
| 115 | 43.1  | 34.5  | 51.7  |



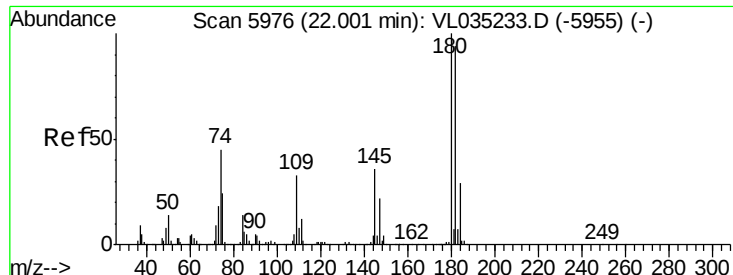
Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->



#81

1,2,4-Trichlorobenzene

Concen: 16.638 ppbv

RT: 22.00 min Scan# 5974

Delta R.T. -0.01 min

Lab File: VL035239.D

Acq: 29 Jul 2020 6:34

Instrument :

MSVOA\_L

ClientSampleId :

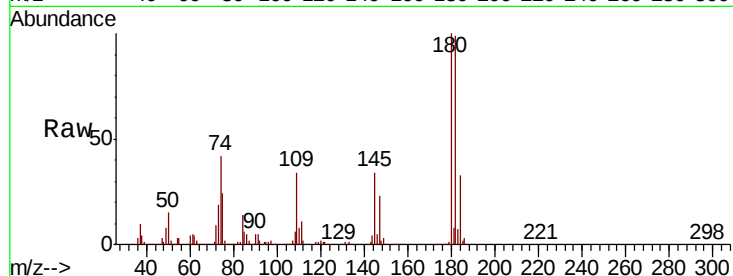
Tot Ion:180 Resp: 3187612

Ion Ratio Lower Upper

180 100

182 97.6 76.7 115.1

184 32.2 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

1500000 Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

