

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\  
 Data File : VL032334.D  
 Acq On : 1 Aug 2018 22:36  
 Operator : SY/AP  
 Sample : J4235-02  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 02 00:48:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 27 07:05:37 2018  
 QLast Update : Fri Jul 27 07:05:37 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.83  | 49   | 1814898  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.36  | 114  | 3732739  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.32 | 117  | 4305422  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.66  | 95    | 3441363  | 10.30    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.00% |

| Target Compounds               |       |     |         |         | Ovalue    |
|--------------------------------|-------|-----|---------|---------|-----------|
| 2) Dichlorodifluoromethane     | 3.12  | 85  | 50176   | 0.229   | ppbv 99   |
| 3) Chlorodifluoromethane       | 3.03  | 51  | 491536  | 2.709   | ppbv # 69 |
| 4) Chloromethane               | 3.22  | 50  | 67349   | 0.613   | ppbv 98   |
| 9) Propene                     | 3.08  | 41  | 384384  | 4.711   | ppbv 91   |
| 10) Heptane                    | 8.32  | 43  | 67305   | 0.235   | ppbv # 50 |
| 11) Trichlorofluoromethane     | 4.05  | 101 | 57634   | 0.276   | ppbv 86   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.60  | 101 | 6469    | 0.045   | ppbv # 17 |
| 13) Ethanol                    | 3.70  | 45  | 4151079 | 177.029 | ppbv 99   |
| 15) Acetone                    | 3.95  | 43  | 3336855 | 19.508  | ppbv 91   |
| 16) 1,3-Butadiene              | 3.40  | 39  | 5153    | 0.058   | ppbv 82   |
| 17) tert-Butyl alcohol         | 4.43  | 59  | 62496   | 1.150   | ppbv # 73 |
| 19) Isopropyl Alcohol          | 4.09  | 45  | 1075173 | 9.420   | ppbv # 98 |
| 20) Methylene Chloride         | 4.47  | 84  | 174114  | 2.532   | ppbv 97   |
| 21) Allyl Chloride             | 4.44  | 41  | 4572    | 0.039   | ppbv # 46 |
| 23) Vinyl Acetate              | 5.20  | 43  | 135045  | 0.440   | ppbv # 51 |
| 25) Ethyl Acetate              | 5.84  | 43  | 758449  | 1.976   | ppbv # 92 |
| 26) Hexane                     | 5.84  | 57  | 739706  | 4.259   | ppbv # 54 |
| 27) Carbon Disulfide           | 4.68  | 76  | 5927    | 0.038   | ppbv # 26 |
| 30) Cyclohexane                | 7.32  | 84  | 5518    | 0.041   | ppbv # 1  |
| 34) 2-Butanone                 | 5.39  | 43  | 218709  | 0.905   | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.21  | 117 | 10834   | 0.051   | ppbv 96   |
| 36) Benzene                    | 7.07  | 78  | 85865   | 0.261   | ppbv # 91 |
| 37) 1,2-Dichloroethane         | 6.48  | 62  | 155063  | 0.816   | ppbv 99   |
| 39) 1,2-Dichloropropane        | 7.36  | 63  | 1027159 | 6.205   | ppbv # 26 |
| 41) Tetrahydrofuran            | 6.23  | 42  | 24021   | 0.176   | ppbv # 84 |
| 43) Methyl Methacrylate        | 8.21  | 69  | 5110    | 0.032   | ppbv # 1  |
| 44) 2,2,4-Trimethylpentane     | 8.06  | 57  | 106815  | 0.150   | ppbv # 70 |
| 50) 4-Methyl-2-Pentanone       | 8.95  | 43  | 17215   | 0.040   | ppbv # 66 |
| 53) Toluene                    | 10.03 | 91  | 554339  | 1.409   | ppbv 99   |
| 58) Ethyl Benzene              | 12.94 | 91  | 83770   | 0.155   | ppbv 96   |
| 59) m/p-Xylene                 | 13.23 | 91  | 69104   | 0.150   | ppbv # 31 |
| 60) o-Xylene                   | 13.93 | 91  | 120237  | 0.267   | ppbv # 31 |
| 61) Styrene                    | 13.76 | 104 | 17431   | 0.053   | ppbv # 1  |
| 65) tert-Butylbenzene          | 17.00 | 119 | 18055   | 0.033   | ppbv # 19 |
| 69) p-Isopropyltoluene         | 17.89 | 119 | 34056   | 0.054   | ppbv # 90 |
| 72) 4-Ethyltoluene             | 16.08 | 105 | 98185   | 0.194   | ppbv # 96 |
| 73) 1,3,5-Trimethylbenzene     | 16.23 | 105 | 52947   | 0.107   | ppbv 87   |
| 74) 1,2,4-Trimethylbenzene     | 17.00 | 105 | 303315  | 0.579   | ppbv # 72 |
| 76) 1,4-Dichlorobenzene        | 17.38 | 146 | 26311   | 0.090   | ppbv # 78 |
| 79) Naphthalene                | 22.51 | 128 | 383160  | 0.843   | ppbv 98   |
| 80) Naphthalene,2-methyl-      | 25.18 | 142 | 12251   | 0.068   | ppbv 93   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\  
Data File : VL032334.D  
Acq On : 1 Aug 2018 22:36  
Operator : SY/AP  
Sample : J4235-02  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

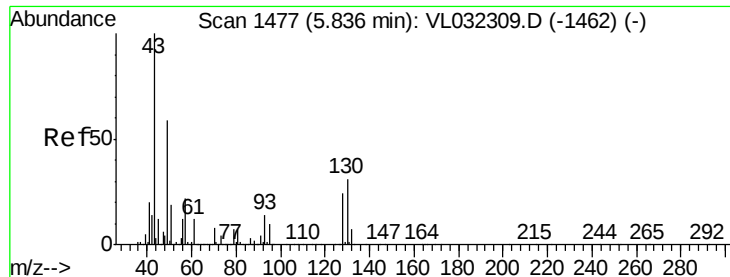
Quant Time: Aug 02 00:48:06 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jul 27 07:05:37 2018  
QLast Update : Fri Jul 27 07:05:37 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

-----  
-----

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

ClientSampleId :

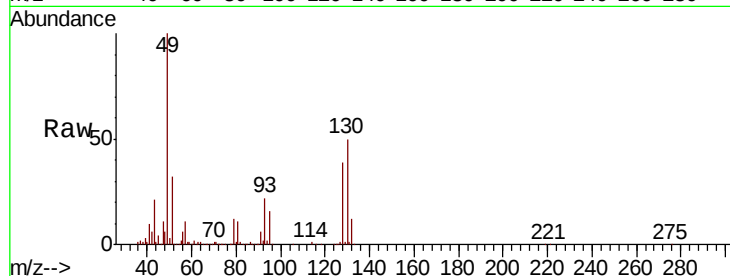
Tot Ion: 49 Resp: 1814898

Ion Ratio Lower Upper

49 100

128 40.1 20.2 60.6

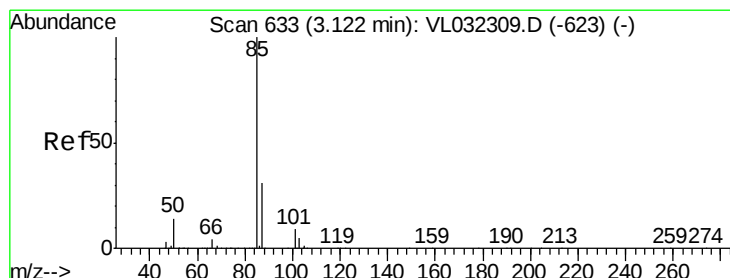
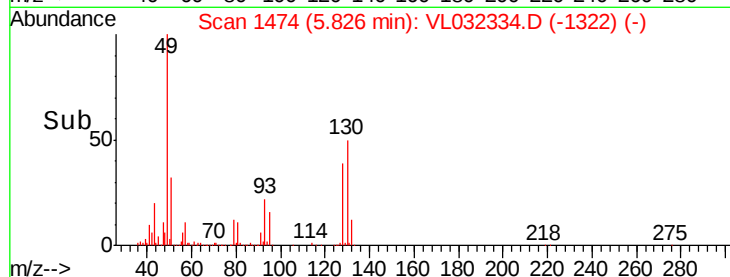
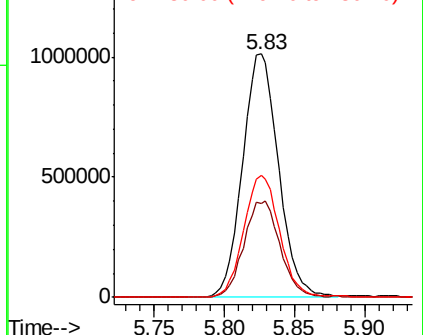
130 50.2 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.229 ppbv

RT: 3.12 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL032334.D

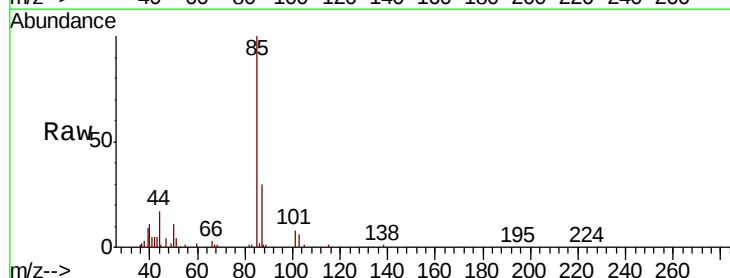
Acq: 1 Aug 2018 22:36

Tgt Ion: 85 Resp: 50176

Ion Ratio Lower Upper

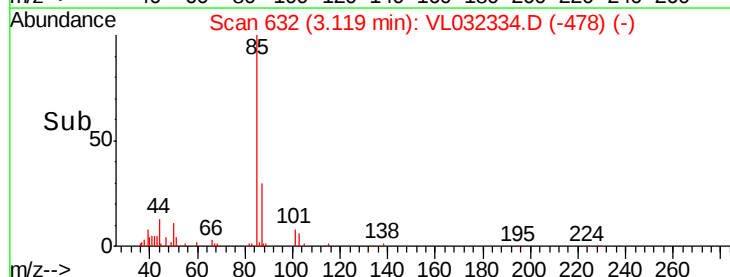
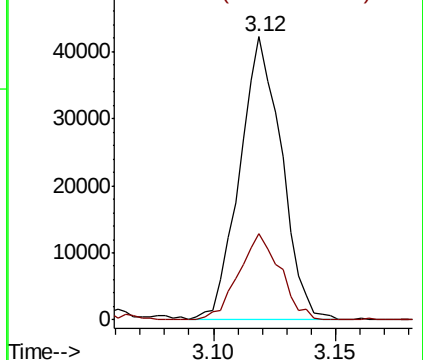
85 100

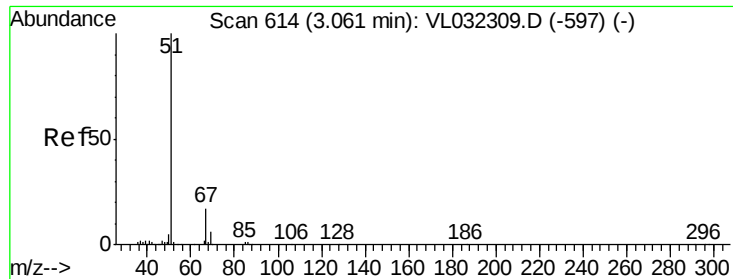
87 31.0 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

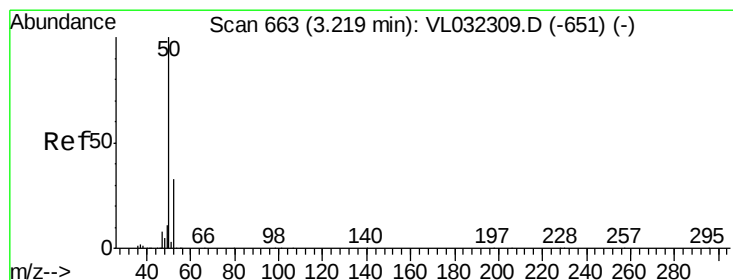
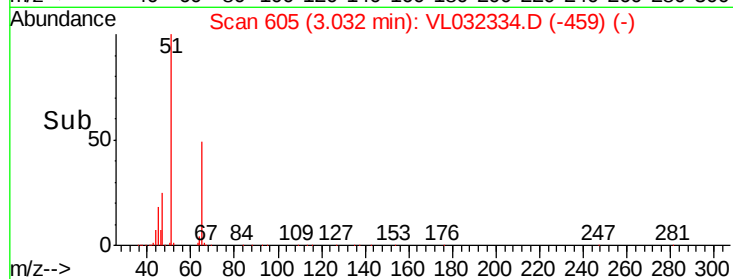
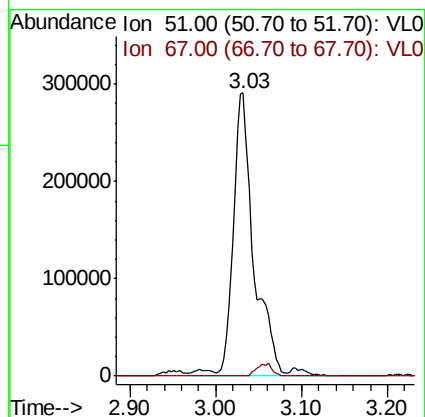
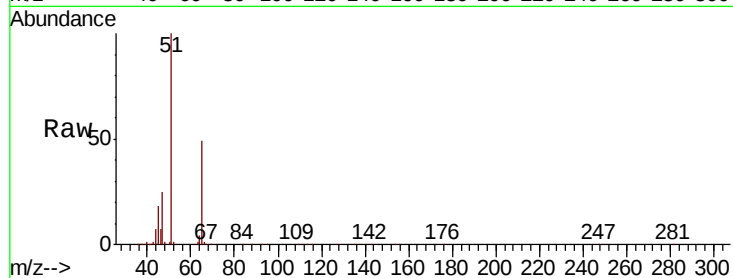




#3  
 Chlorodifluoromethane  
 Concen: 2.709 ppbv  
 RT: 3.03 min Scan# 605  
 Delta R.T. -0.03 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

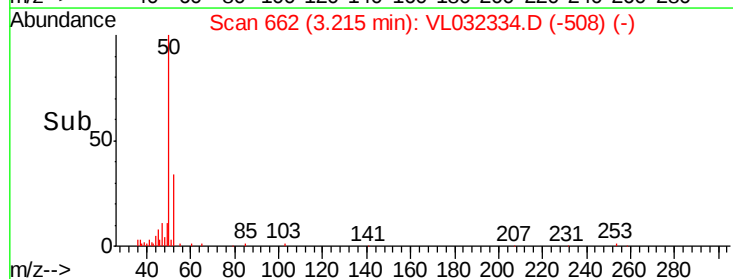
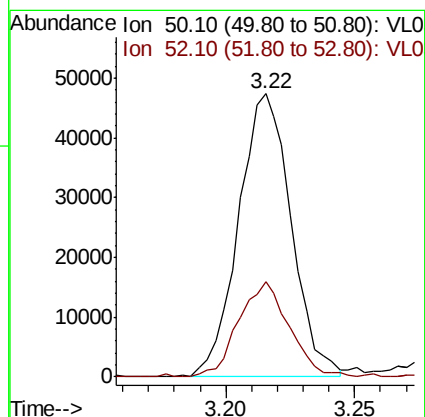
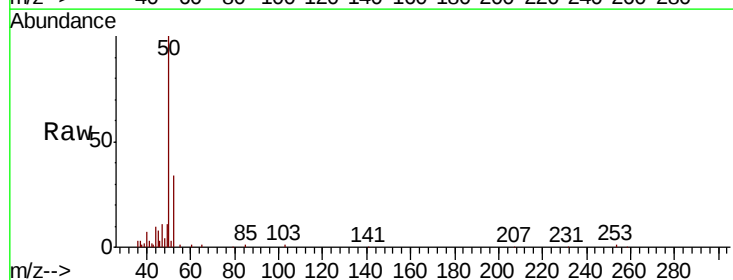
Instrument :  
 MSVOA\_L  
 ClientSampleId :

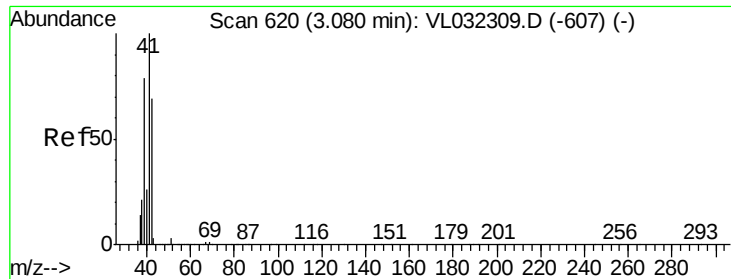
Tot Ion: 51 Resp: 491536  
 Ion Ratio Lower Upper  
 51 100  
 67 3.4 13.5 20.3#



#4  
 Chloromethane  
 Concen: 0.613 ppbv  
 RT: 3.22 min Scan# 662  
 Delta R.T. -0.00 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

Tgt Ion: 50 Resp: 67349  
 Ion Ratio Lower Upper  
 50 100  
 52 33.8 26.2 39.4





#9

Propene

Concen: 4.711 ppbv

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

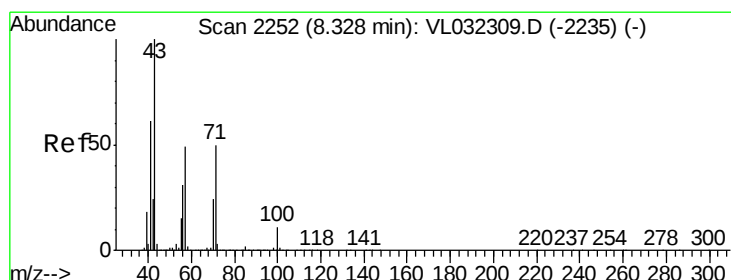
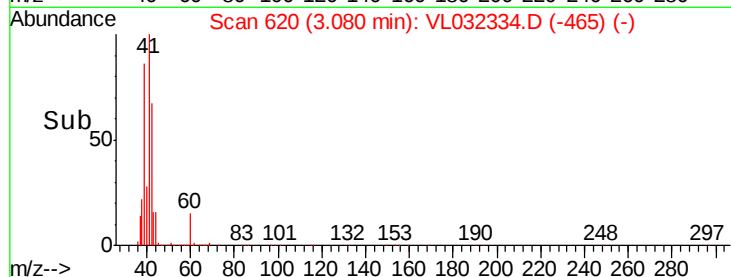
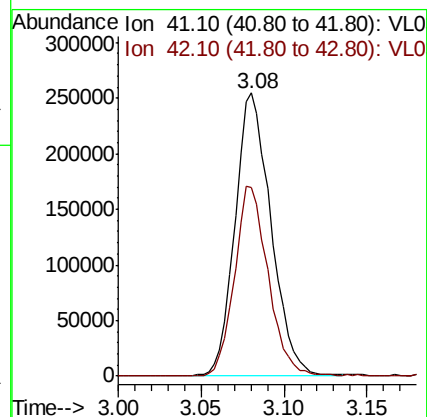
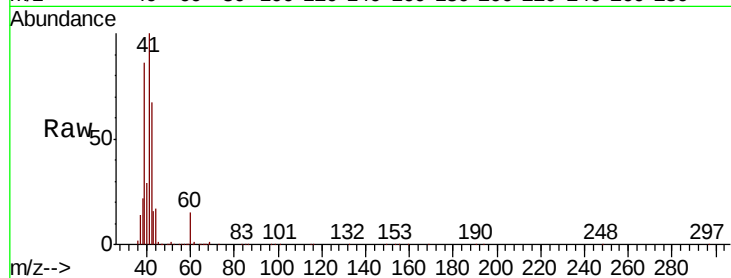
ClientSampled :

Tot Ion: 41 Resp: 384384

Ion Ratio Lower Upper

41 100

42 63.2 56.8 85.2



#10

Heptane

Concen: 0.235 ppbv

RT: 8.32 min Scan# 2250

Delta R.T. -0.01 min

Lab File: VL032334.D

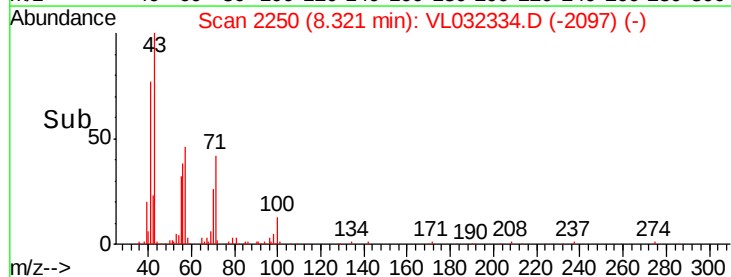
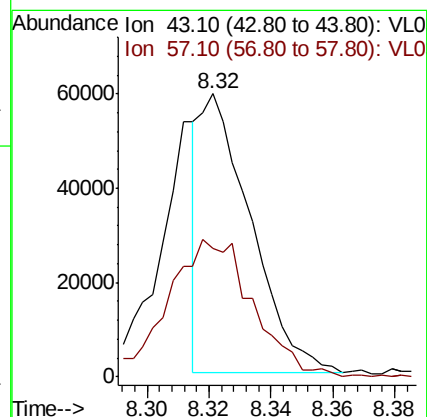
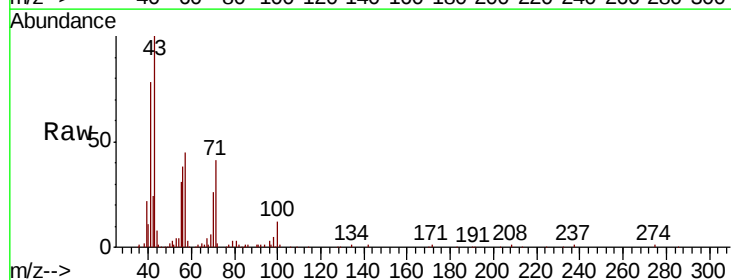
Acq: 1 Aug 2018 22:36

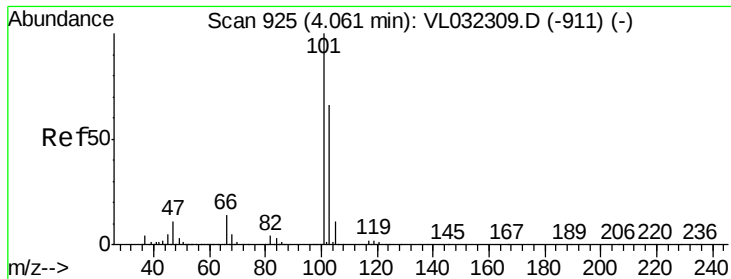
Tgt Ion: 43 Resp: 67305

Ion Ratio Lower Upper

43 100

57 82.5 39.0 58.4#





#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 4.05 min Scan# 923

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

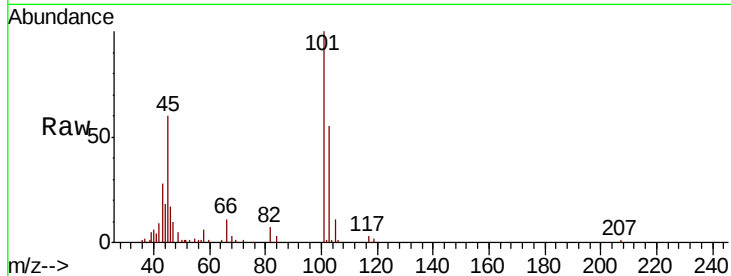
ClientSampleId :

Tot Ion:101 Resp: 57634

Ion Ratio Lower Upper

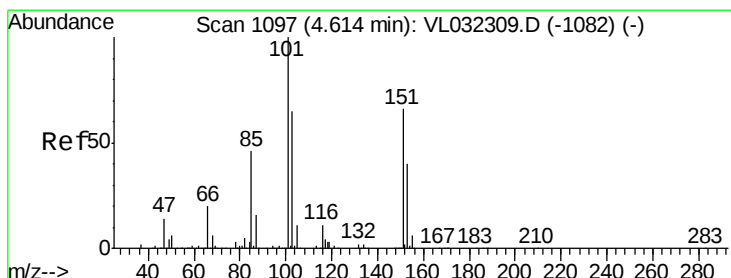
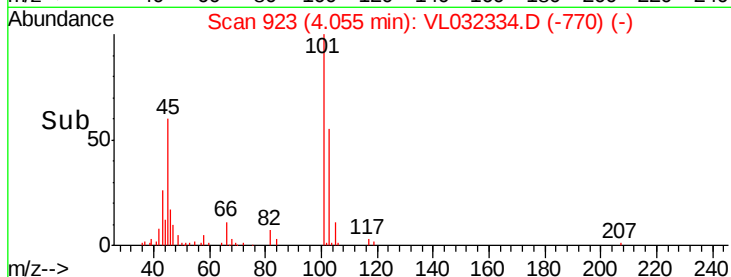
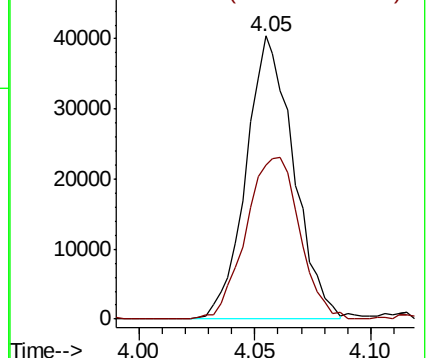
101 100

103 54.7 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.045 ppbv

RT: 4.60 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL032334.D

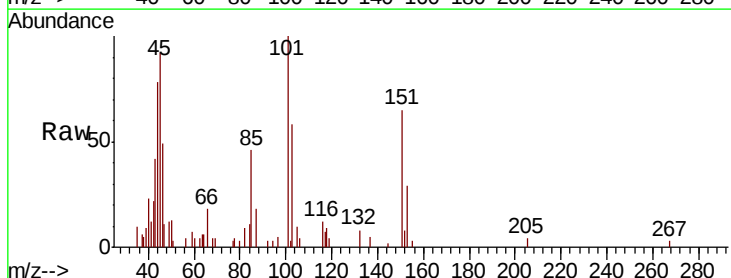
Acq: 1 Aug 2018 22:36

Tgt Ion:101 Resp: 6469

Ion Ratio Lower Upper

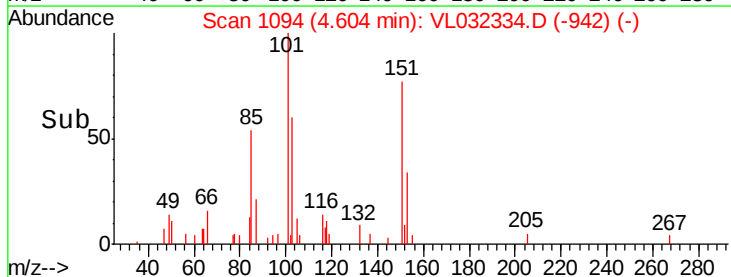
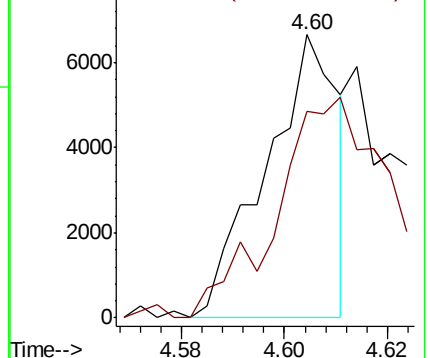
101 100

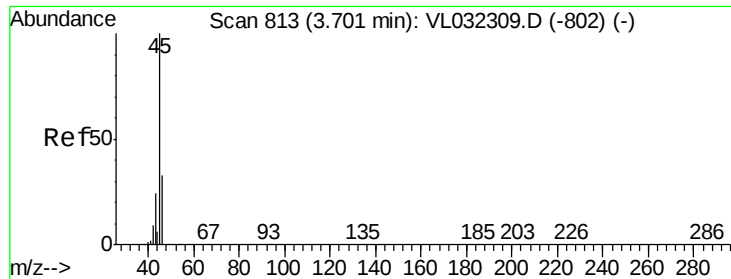
151 0.0 52.4 78.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

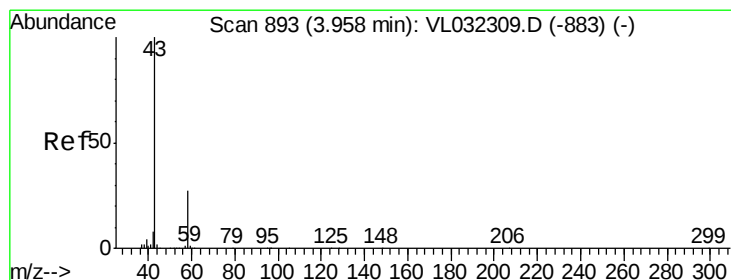
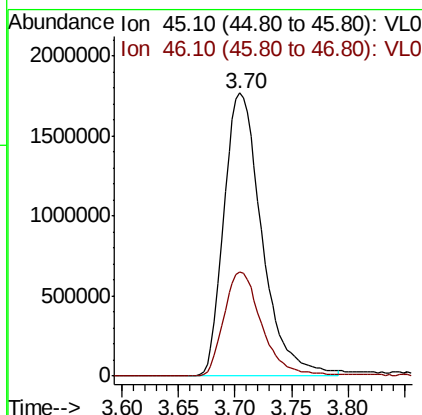
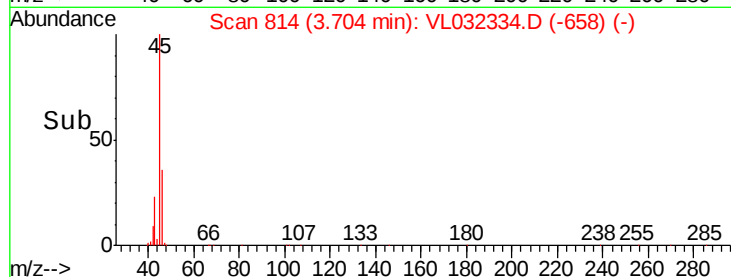
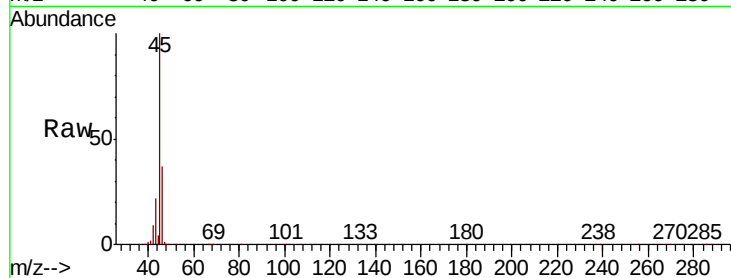




#13  
Ethanol  
Concen: 177.029 ppbv  
RT: 3.70 min Scan# 814  
Delta R.T. 0.00 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

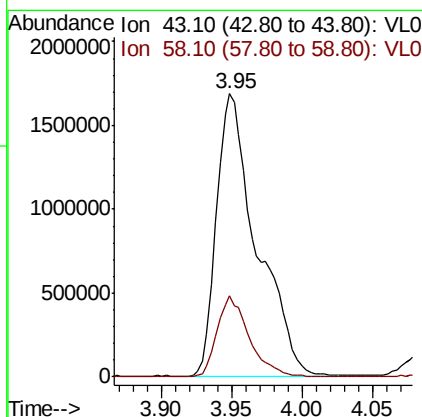
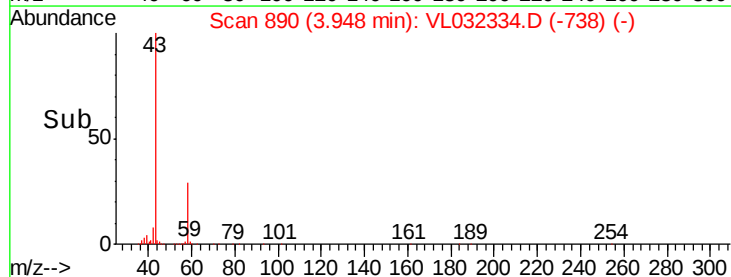
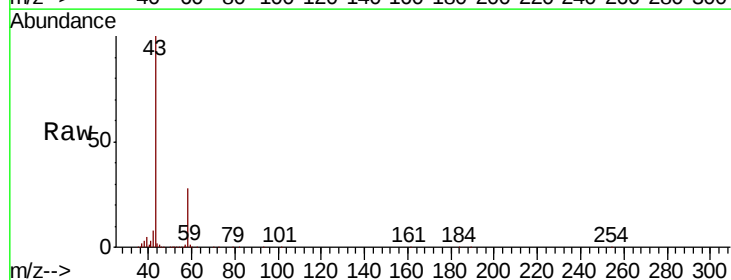
Instrument :  
MSVOA\_L  
ClientSampleId :

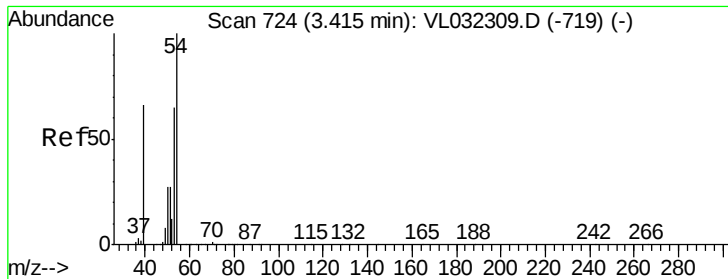
Tot Ion: 45 Resp: 4151079  
Ion Ratio Lower Upper  
45 100  
46 37.5 15.2 60.6



#15  
Acetone  
Concen: 19.508 ppbv  
RT: 3.95 min Scan# 890  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 43 Resp: 3336855  
Ion Ratio Lower Upper  
43 100  
58 23.2 22.5 33.7

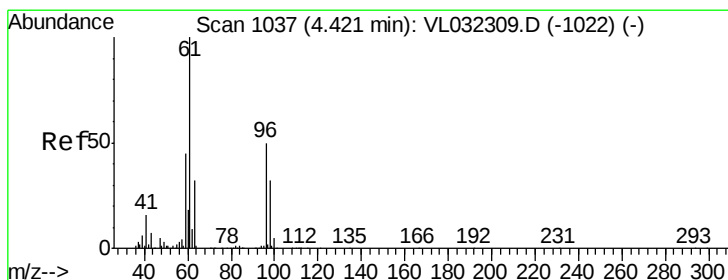
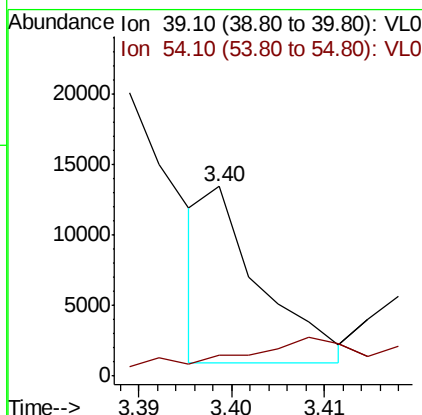
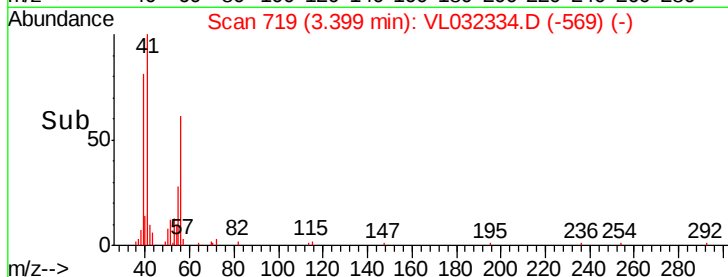
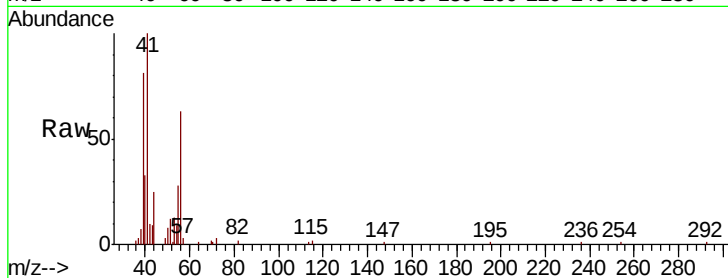




#16  
 1,3-Butadiene  
 Concen: 0.058 ppbv  
 RT: 3.40 min Scan# 719  
 Delta R.T. -0.02 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

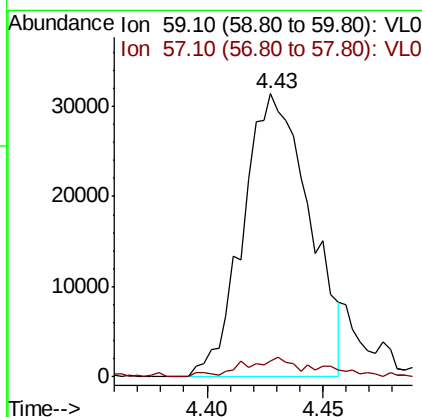
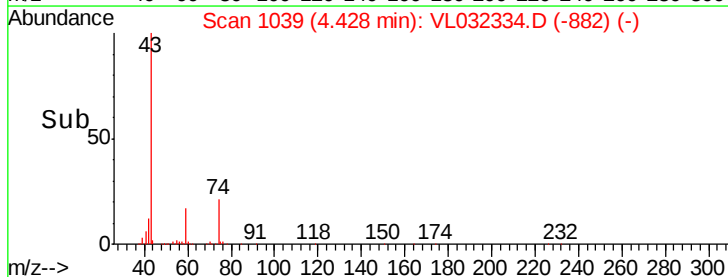
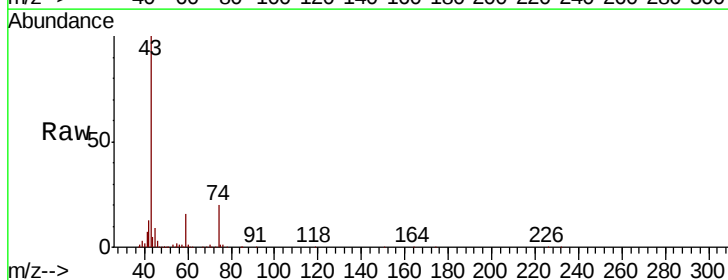
Instrument :  
 MSVOA\_L  
 ClientSampleId :

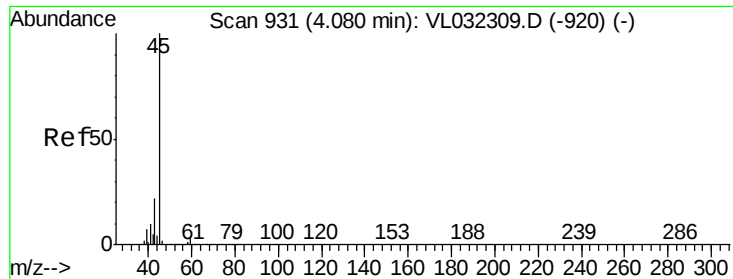
Tot Ion: 39 Resp: 5153  
 Ion Ratio Lower Upper  
 39 100  
 54 75.3 74.3 111.5



#17  
 tert-Butyl alcohol  
 Concen: 1.150 ppbv  
 RT: 4.43 min Scan# 1039  
 Delta R.T. 0.01 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

Tgt Ion: 59 Resp: 62496  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.0 12.0#

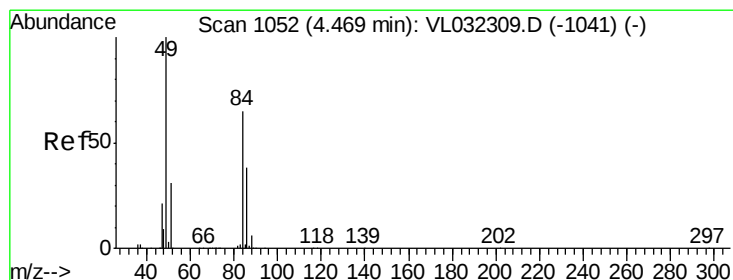
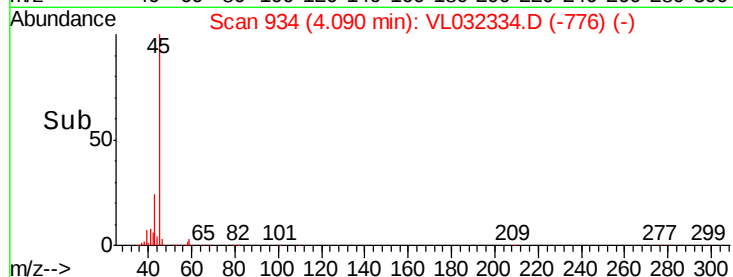
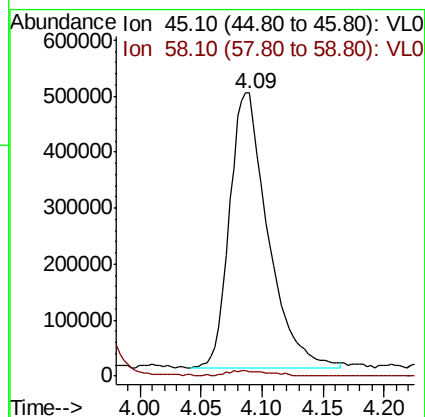
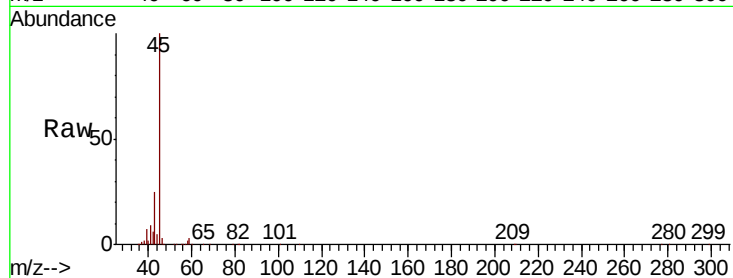




#19  
Isopropyl Alcohol  
Concen: 9.420 ppbv  
RT: 4.09 min Scan# 934  
Delta R.T. 0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

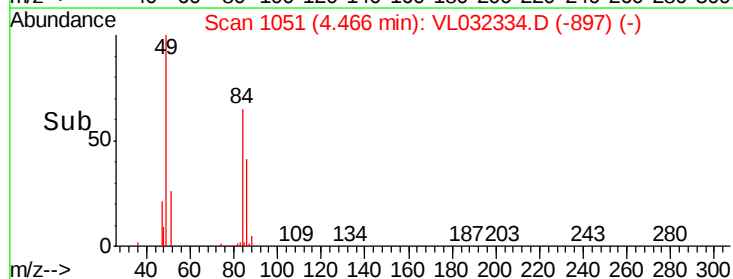
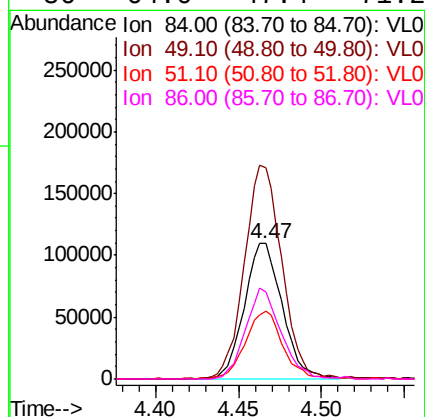
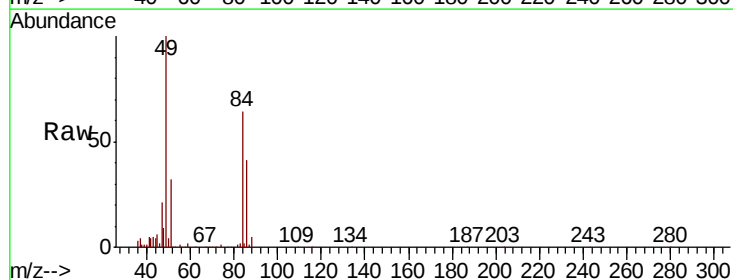
Instrument :  
MSVOA\_L  
ClientSampled :

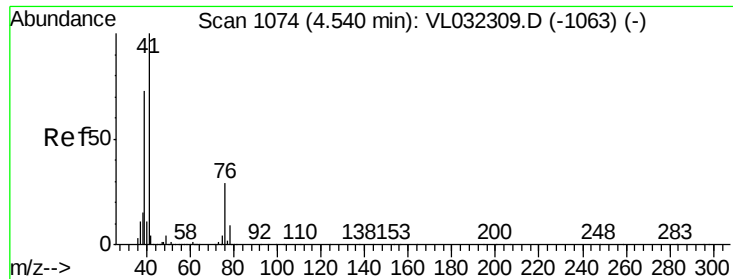
Tot Ion: 45 Resp: 1075173  
Ion Ratio Lower Upper  
45 100  
58 2.4 1.5 2.3#



#20  
Methylene Chloride  
Concen: 2.532 ppbv  
RT: 4.47 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 84 Resp: 174114  
Ion Ratio Lower Upper  
84 100  
49 155.4 123.4 185.0  
51 50.0 38.2 57.2  
86 64.0 47.4 71.2

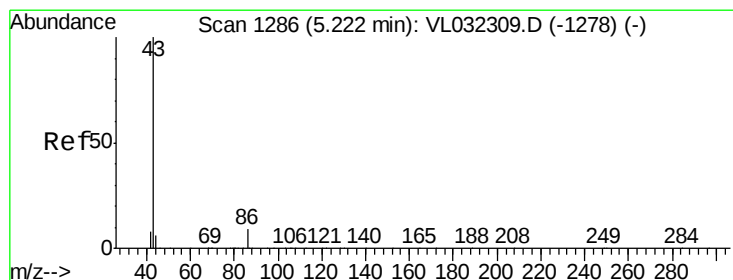
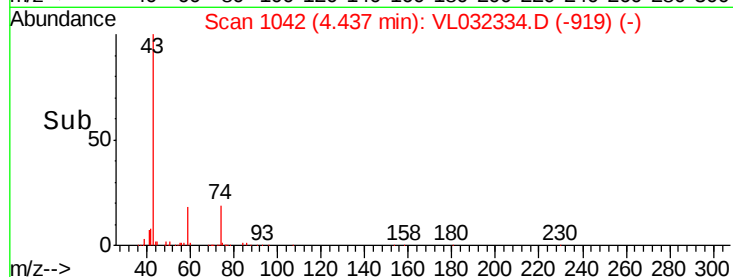
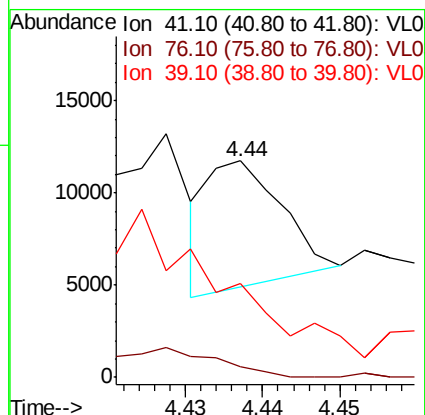
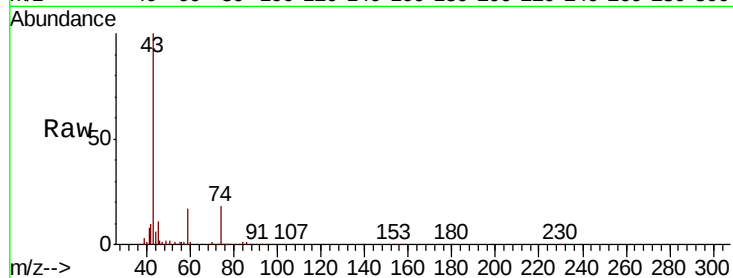




#21  
Allvl Chloride  
Concen: 0.039 ppbv  
RT: 4.44 min Scan# 1042  
Delta R.T. -0.10 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

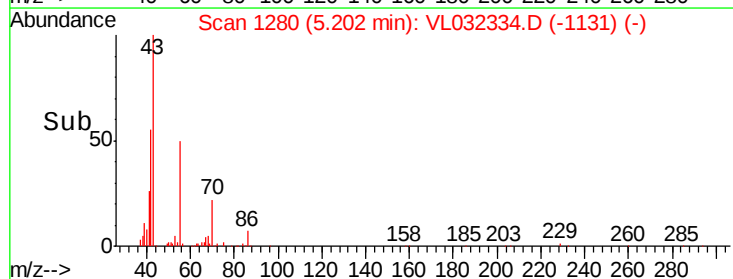
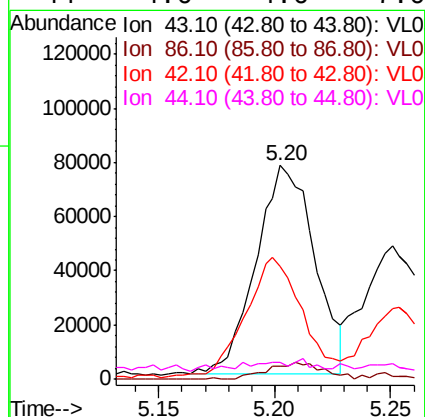
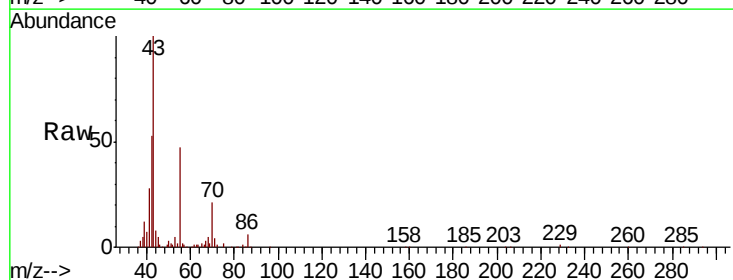
Instrument :  
MSVOA\_L  
ClientSampleId :

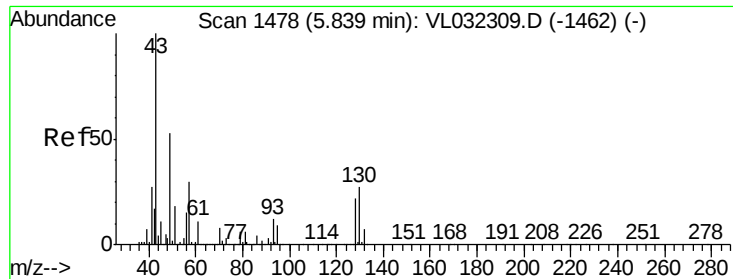
Tot Ion: 41 Resp: 4572  
Ion Ratio Lower Upper  
41 100  
76 0.0 23.1 34.7#  
39 118.0 58.2 87.2#



#23  
Vinyl Acetate  
Concen: 0.440 ppbv  
RT: 5.20 min Scan# 1280  
Delta R.T. -0.02 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 43 Resp: 135045  
Ion Ratio Lower Upper  
43 100  
86 6.5 6.3 9.5  
42 51.8 7.0 10.4#  
44 4.6 4.6 7.0#

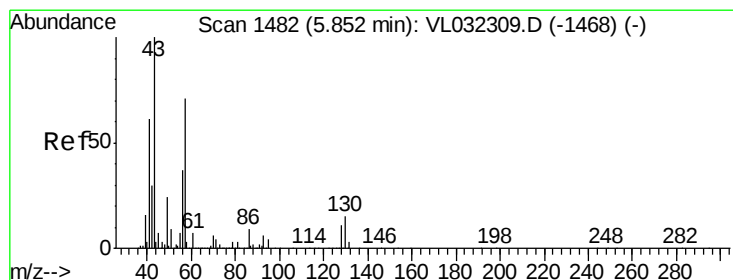
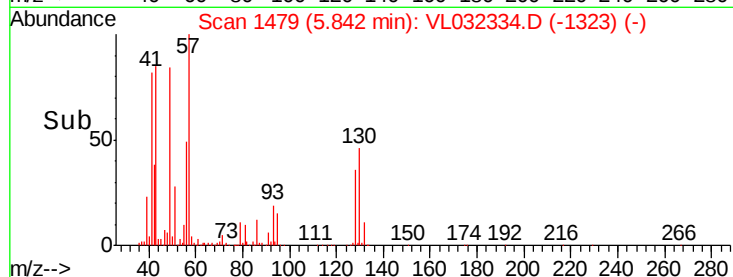
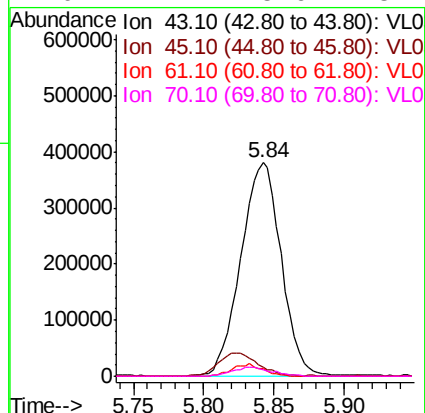
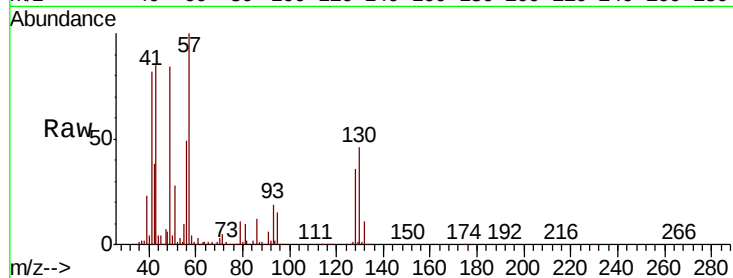




#25  
Ethyl Acetate  
Concen: 1.976 ppbv  
RT: 5.84 min Scan# 1479  
Delta R.T. 0.00 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

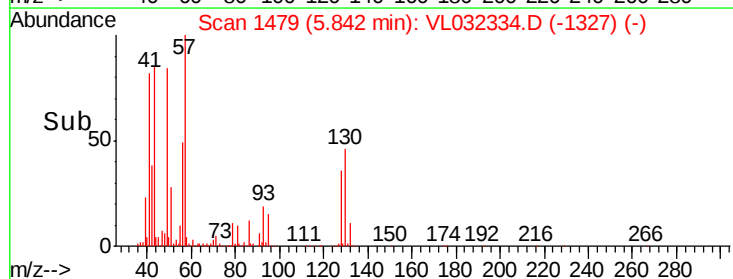
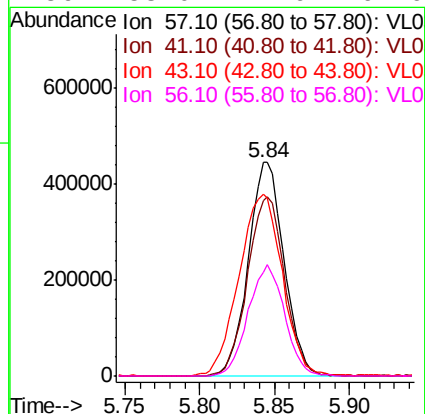
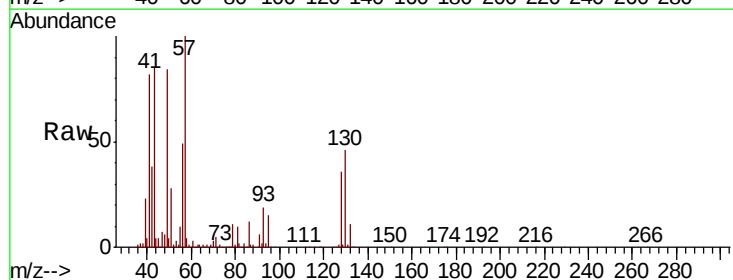
Instrument :  
MSVOA\_L  
ClientSampled :

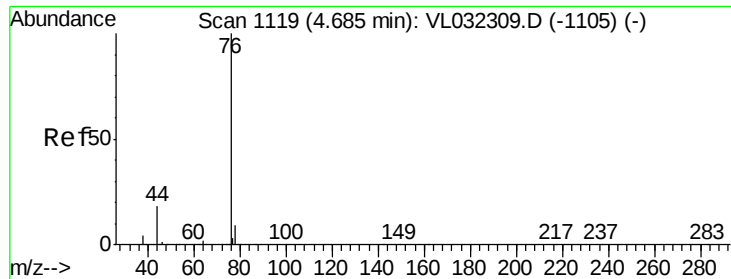
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 758449 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 11.0  | 8.1   | 12.1   |
| 61       | 4.5   | 7.4   | 11.0#  |
| 70       | 4.1   | 5.6   | 8.4#   |



#26  
Hexane  
Concen: 4.259 ppbv  
RT: 5.84 min Scan# 1479  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 739706 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 87.5  | 68.1  | 102.1  |
| 43       | 103.1 | 177.4 | 266.2# |
| 56       | 53.0  | 41.9  | 62.9   |





#27

Carbon Disulfide

Concen: 0.038 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

ClientSampleId :

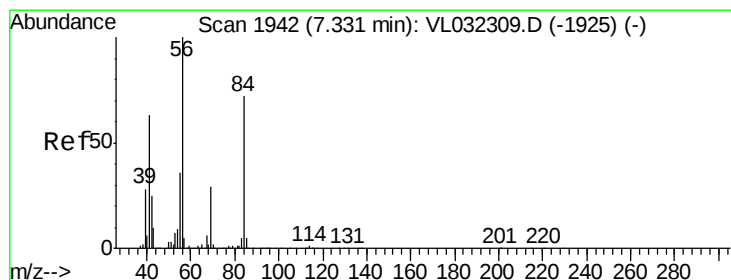
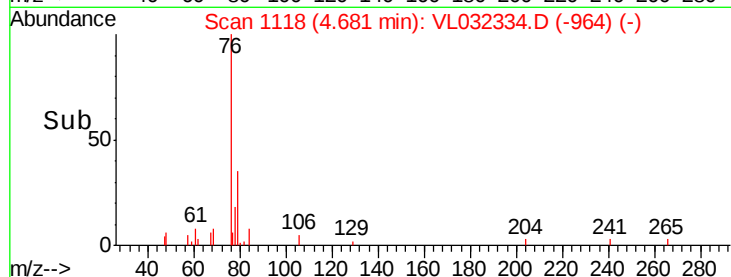
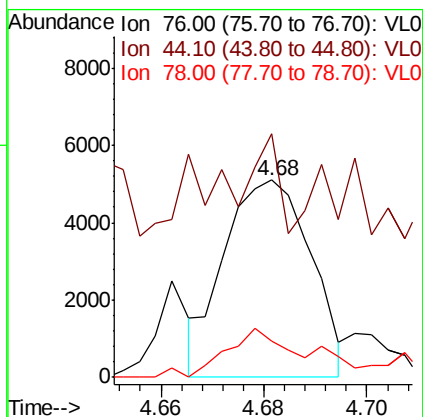
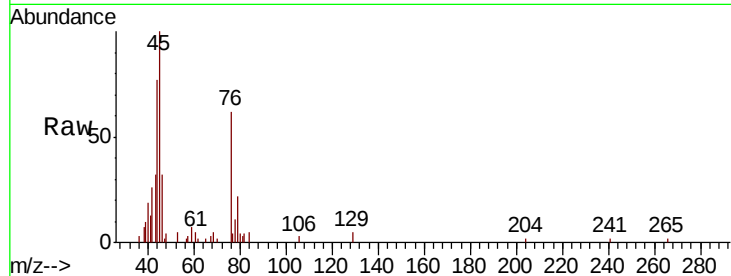
Tot Ion: 76 Resp: 5927

Ion Ratio Lower Upper

76 100

44 55.4 14.0 21.0#

78 28.3 7.5 11.3#



#30

Cyclohexane

Concen: 0.041 ppbv

RT: 7.32 min Scan# 1939

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

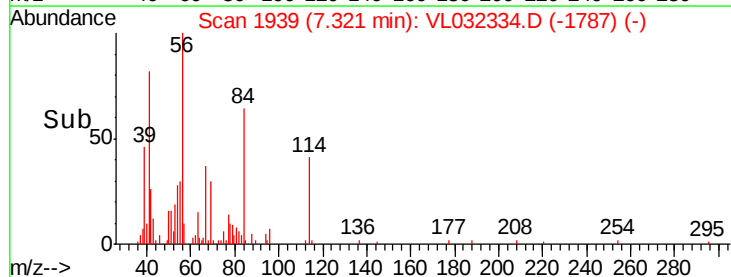
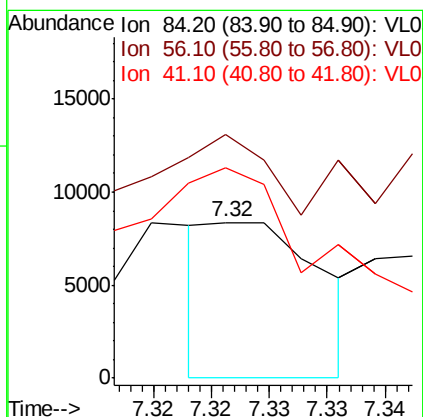
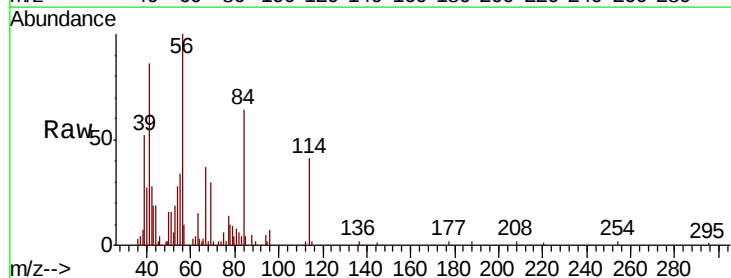
Tgt Ion: 84 Resp: 5518

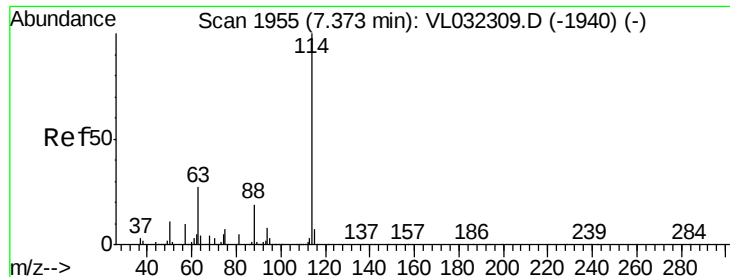
Ion Ratio Lower Upper

84 100

56 0.0 116.8 175.2#

41 458.1 70.0 105.0#

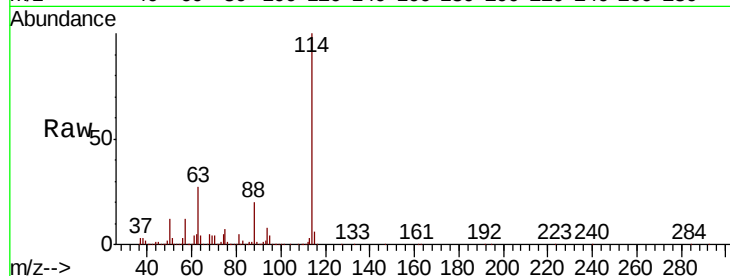




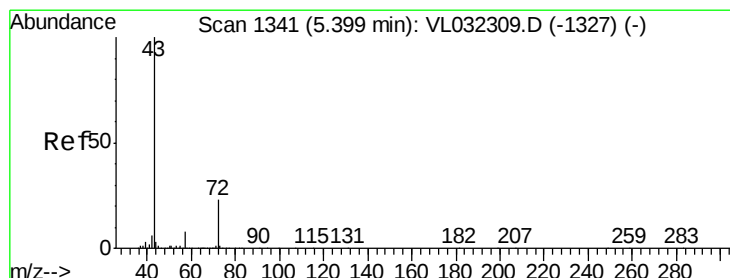
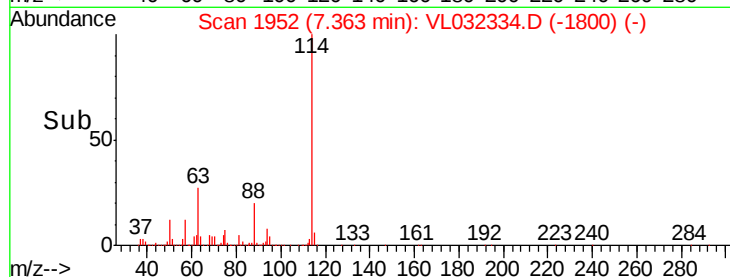
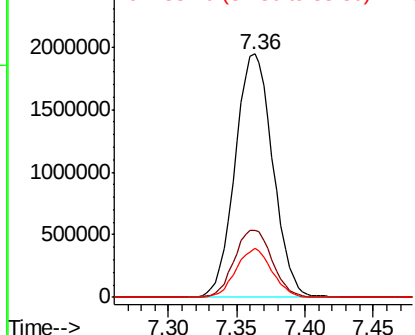
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.36 min Scan# 1952  
 Delta R.T. -0.01 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 3732739  
 Ion Ratio Lower Upper  
 114 100  
 63 27.8 22.4 33.6  
 88 19.1 15.3 22.9

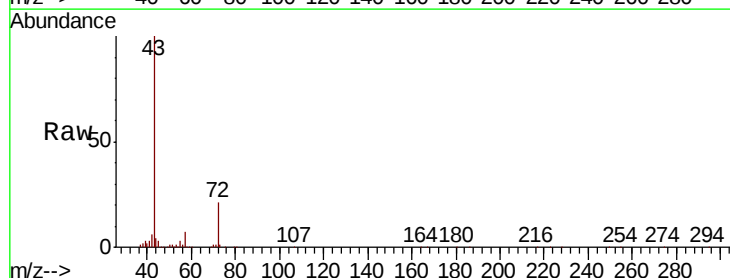


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

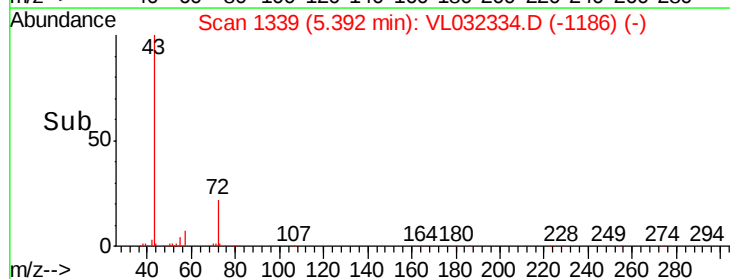
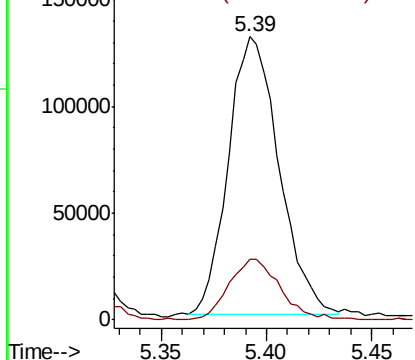


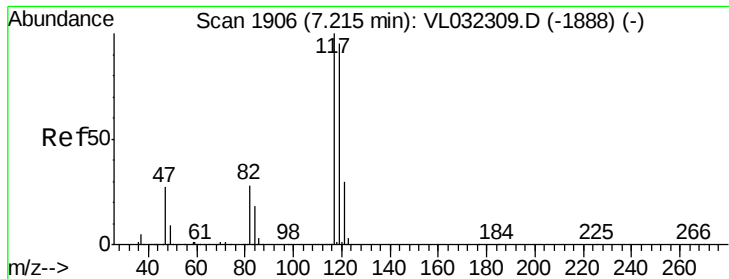
#34  
 2-Butanone  
 Concen: 0.905 ppbv  
 RT: 5.39 min Scan# 1339  
 Delta R.T. -0.01 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

Tgt Ion: 43 Resp: 218709  
 Ion Ratio Lower Upper  
 43 100  
 72 22.2 17.4 26.2



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

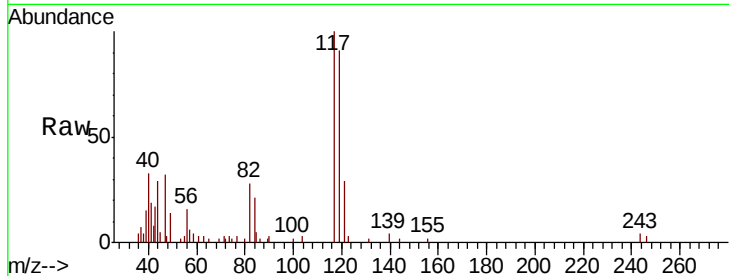




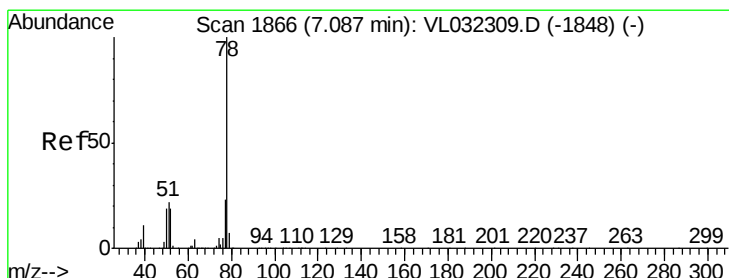
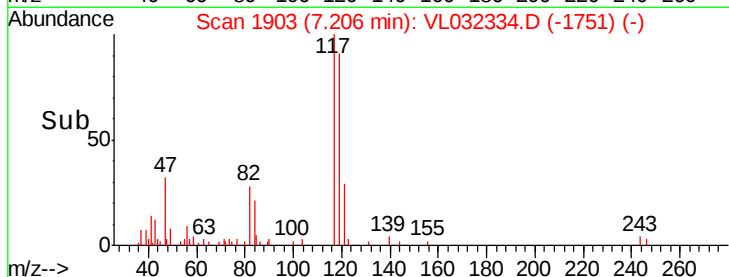
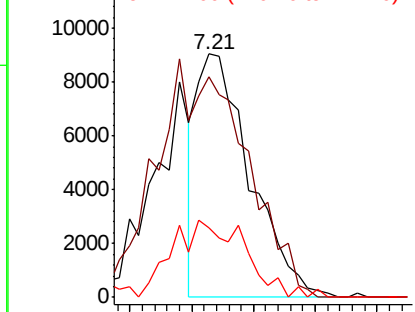
#35  
Carbon Tetrachloride  
Concen: 0.051 ppbv  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:117 Resp: 10834  
Ion Ratio Lower Upper  
117 100  
119 90.8 76.1 114.1  
121 28.8 24.4 36.6

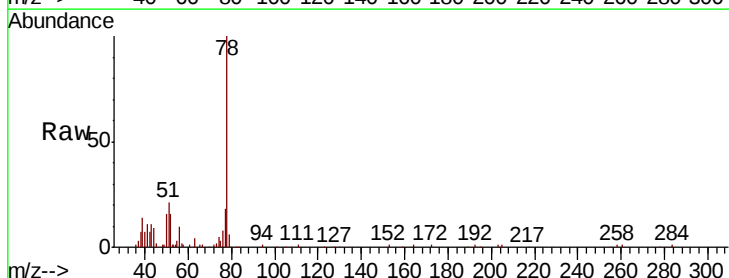


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

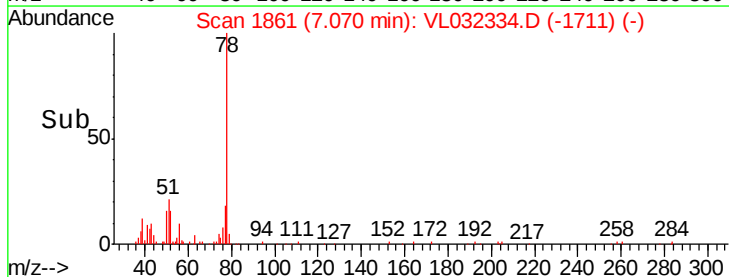
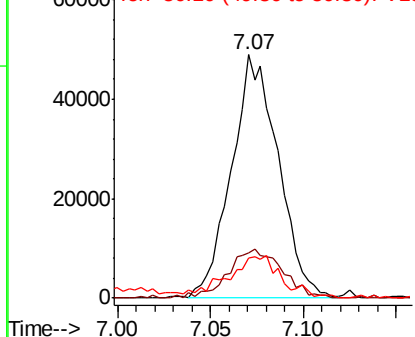


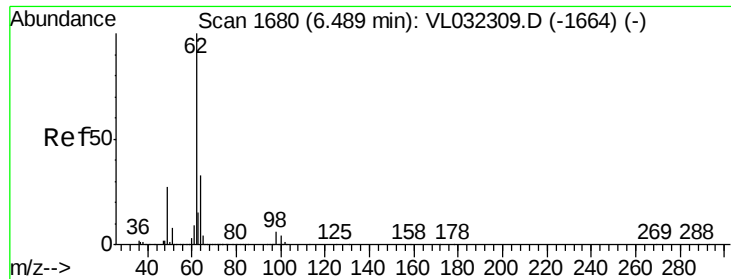
#36  
Benzene  
Concen: 0.261 ppbv  
RT: 7.07 min Scan# 1861  
Delta R.T. -0.02 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 78 Resp: 85865  
Ion Ratio Lower Upper  
78 100  
77 17.6 18.4 27.6#  
50 16.3 15.3 22.9



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: 0.816 ppbv

RT: 6.48 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

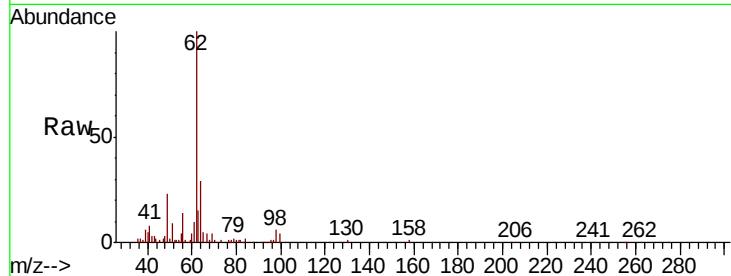
ClientSampleId :

Tot Ion: 62 Resp: 155063

Ion Ratio Lower Upper

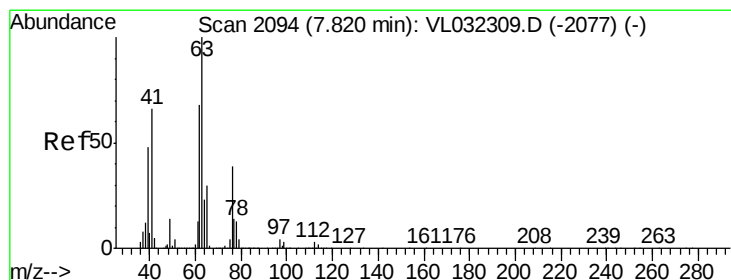
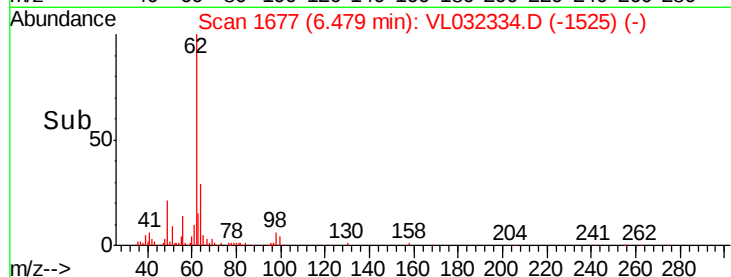
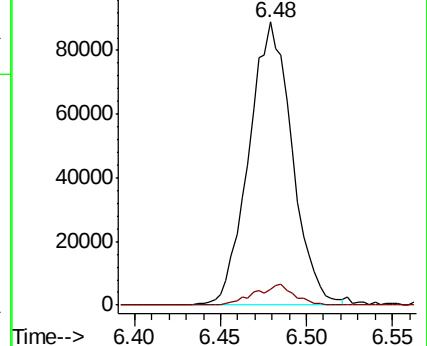
62 100

98 6.8 5.1 7.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#39

1,2-Dichloropropane

Concen: 6.205 ppbv

RT: 7.36 min Scan# 1951

Delta R.T. -0.46 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

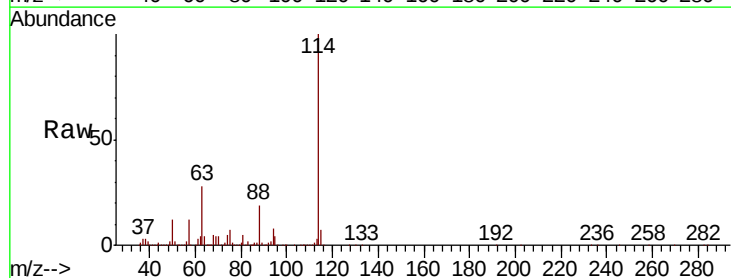
Tgt Ion: 63 Resp: 1027159

Ion Ratio Lower Upper

63 100

41 0.0 52.5 78.7#

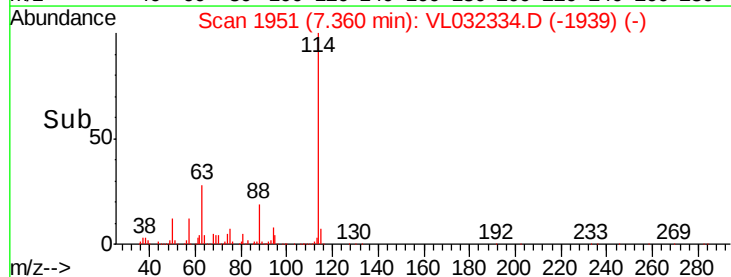
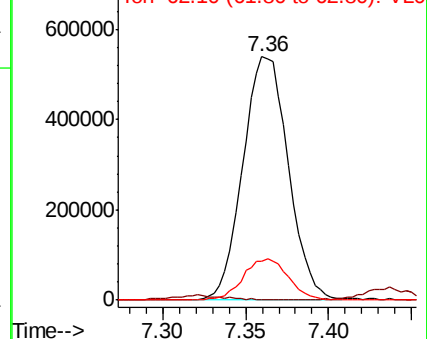
62 15.9 54.6 81.8#

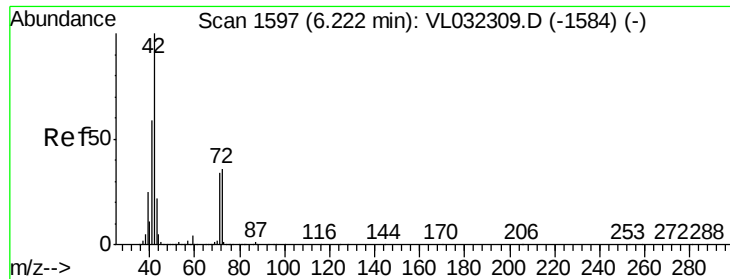


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

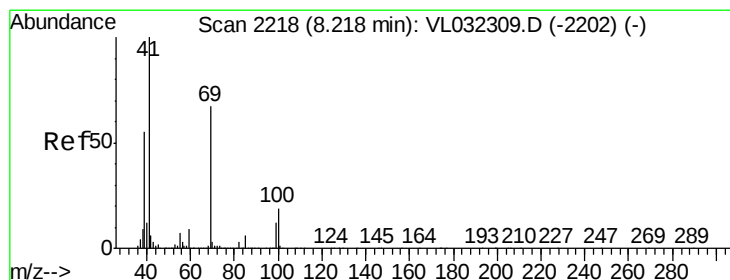
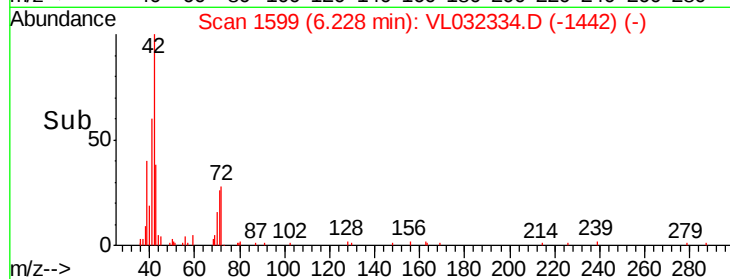
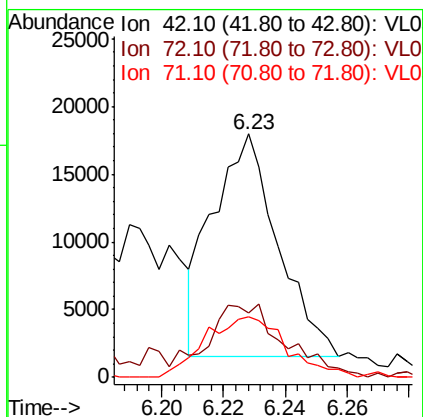
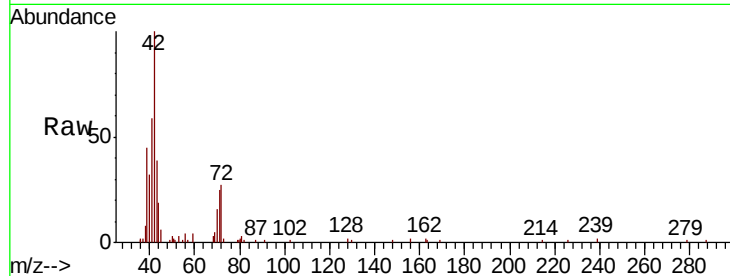




#41  
Tetrahydrofuran  
Concen: 0.176 ppbv  
RT: 6.23 min Scan# 1599  
Delta R.T. 0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

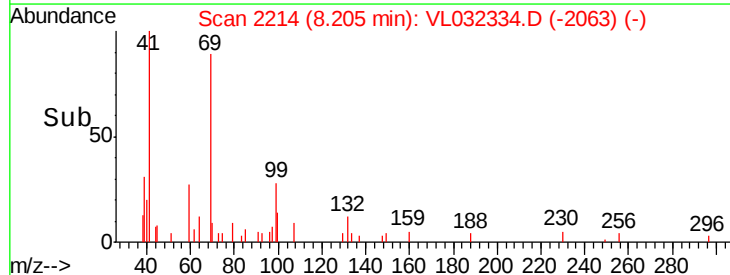
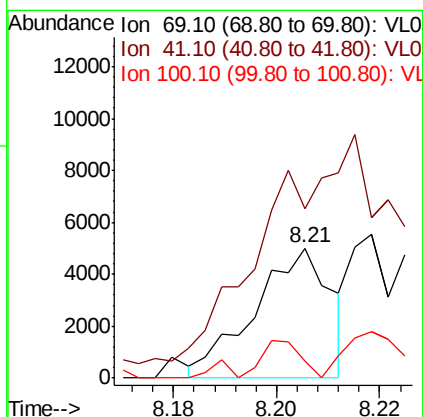
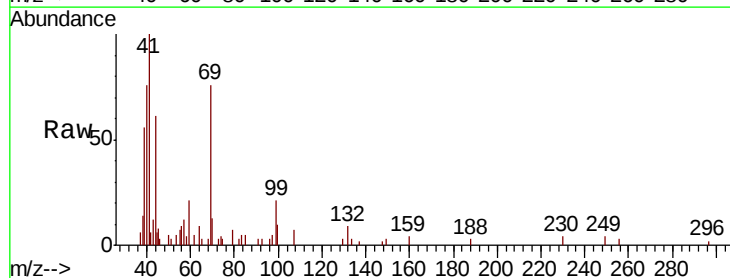
Instrument :  
MSVOA\_L  
ClientSampleId :

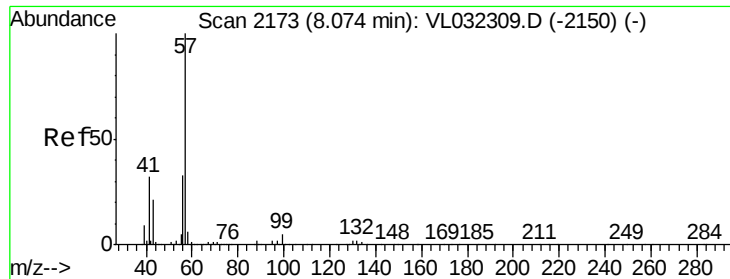
Tot Ion: 42 Resp: 24021  
Ion Ratio Lower Upper  
42 100  
72 54.3 28.6 42.8#  
71 34.9 27.8 41.6



#43  
Methyl Methacrylate  
Concen: 0.032 ppbv  
RT: 8.21 min Scan# 2214  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 69 Resp: 5110  
Ion Ratio Lower Upper  
69 100  
41 0.0 120.6 180.8#  
100 22.8 23.2 34.8#

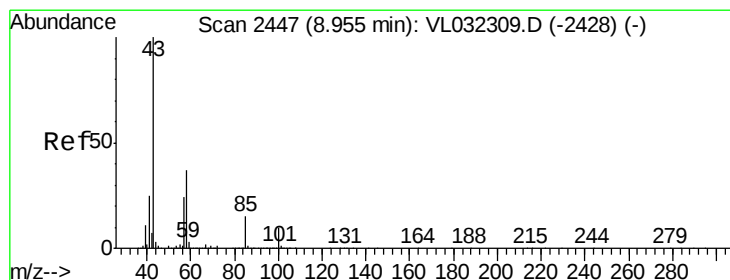
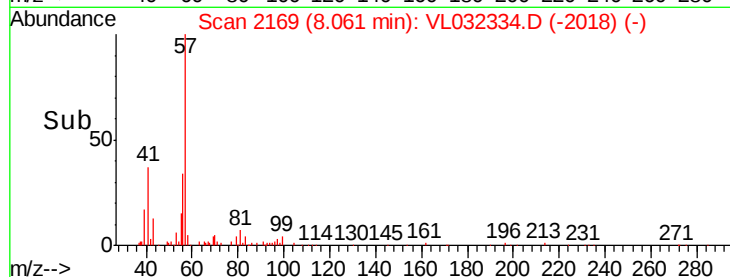
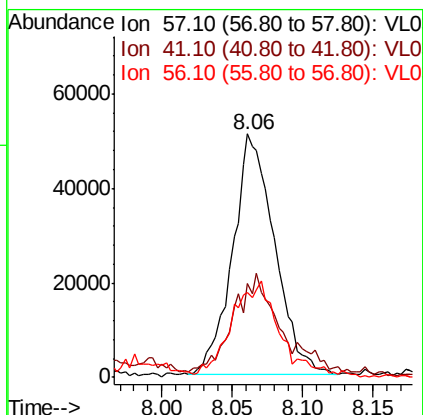
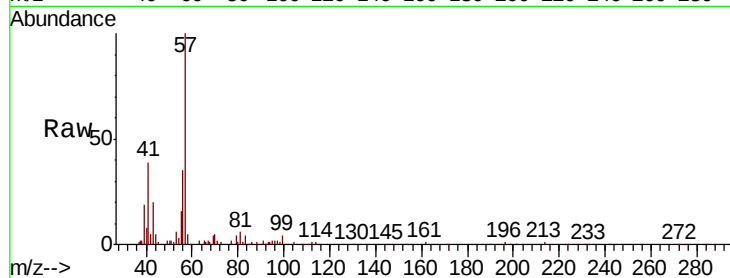




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.150 ppbv  
 RT: 8.06 min Scan# 2169  
 Delta R.T. -0.01 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

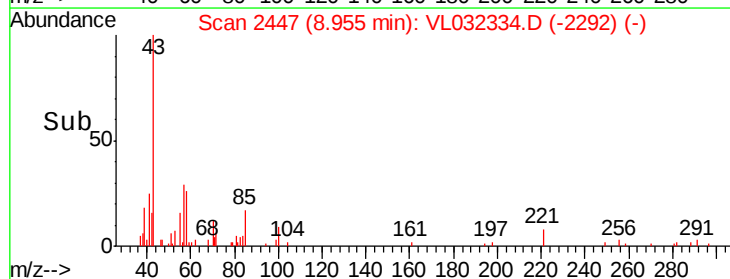
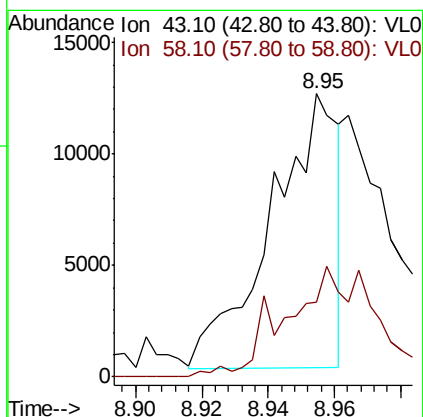
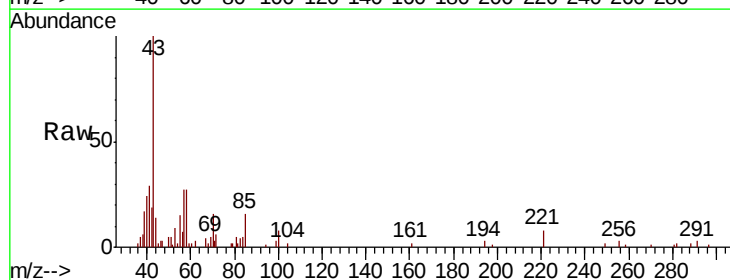
Instrument :  
 MSVOA\_L  
 ClientSampleId :

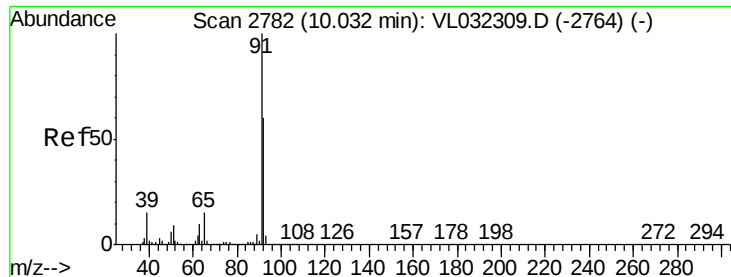
| Tot Ion   | 57    | Resp  | 106815 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 50.9  | 24.3  | 36.5#  |
| 56        | 44.5  | 25.4  | 38.2#  |



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.040 ppbv  
 RT: 8.95 min Scan# 2447  
 Delta R.T. -0.00 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

| Tgt Ion   | 43    | Resp  | 17215 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 56.0  | 28.9  | 43.3# |





#53

Toluene

Concen: 1.409 ppbv

RT: 10.03 min Scan# 2780

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

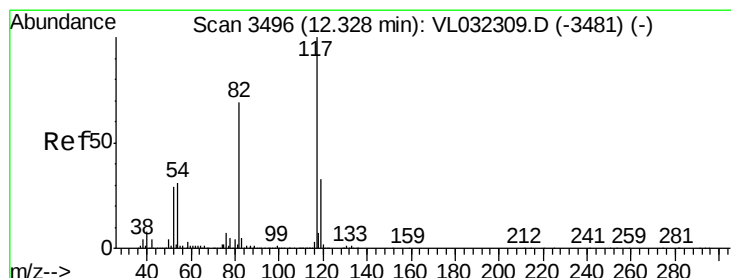
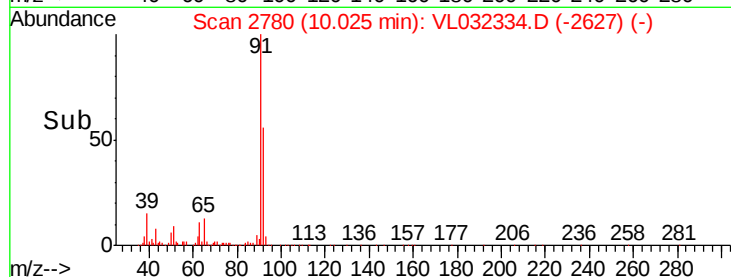
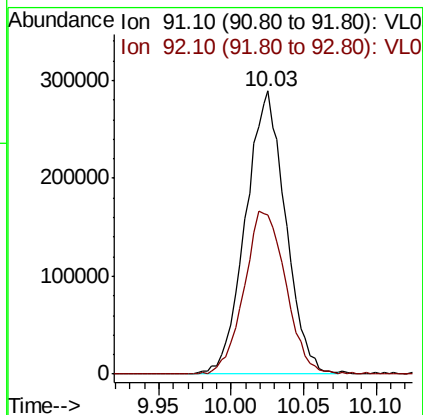
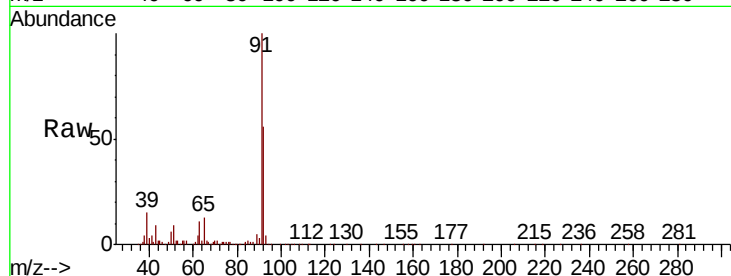
ClientSampleId :

Tot Ion: 91 Resp: 554339

Ion Ratio Lower Upper

91 100

92 60.2 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.32 min Scan# 3493

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

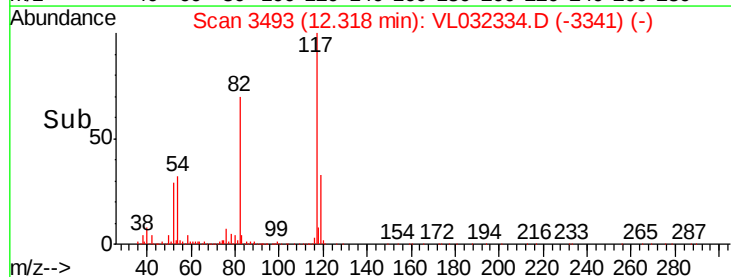
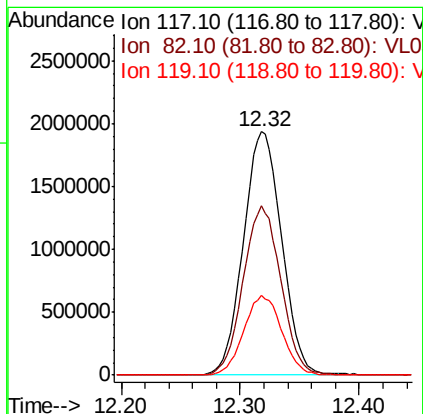
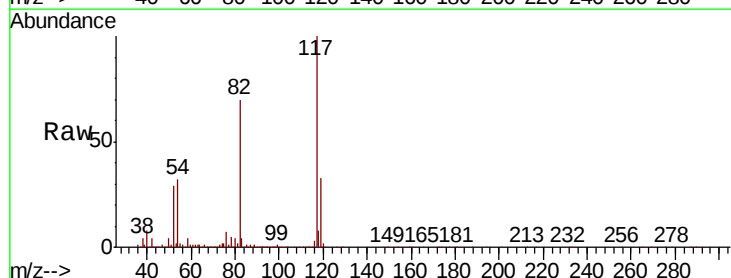
Tgt Ion: 117 Resp: 4305422

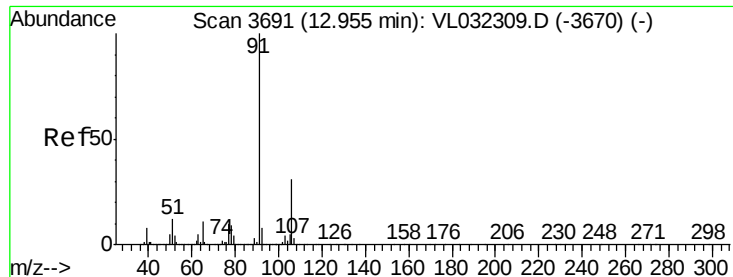
Ion Ratio Lower Upper

117 100

82 68.6 52.6 78.8

119 32.5 25.7 38.5





#58

Ethyl Benzene

Concen: 0.155 ppbv

RT: 12.94 min Scan# 3687

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

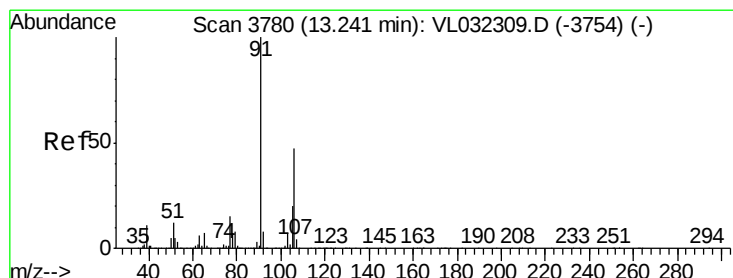
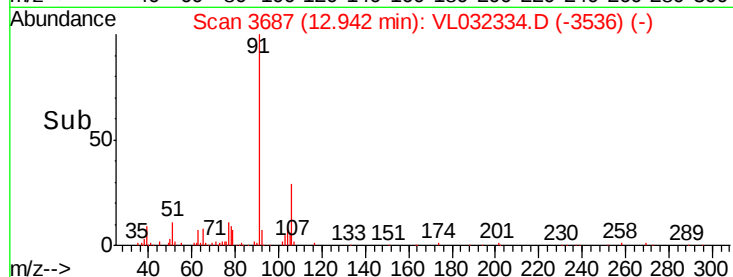
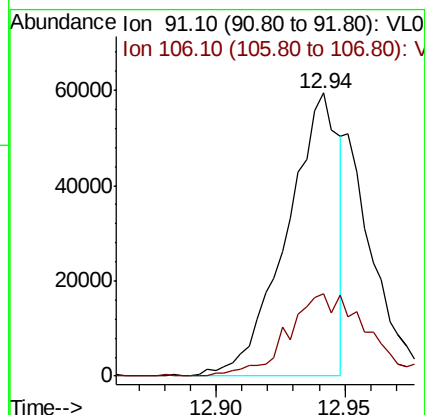
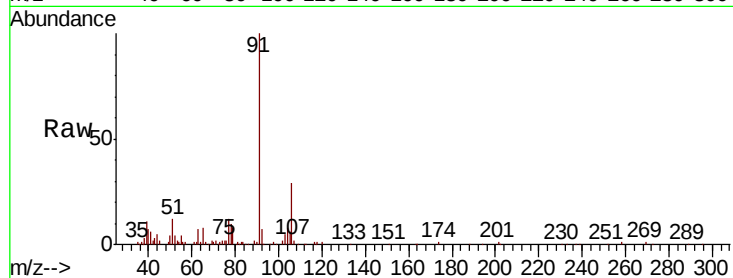
ClientSampleId :

Tot Ion: 91 Resp: 83770

Ion Ratio Lower Upper

91 100

106 28.9 25.0 37.4



#59

m/p-Xylene

Concen: 0.150 ppbv

RT: 13.23 min Scan# 3778

Delta R.T. -0.01 min

Lab File: VL032334.D

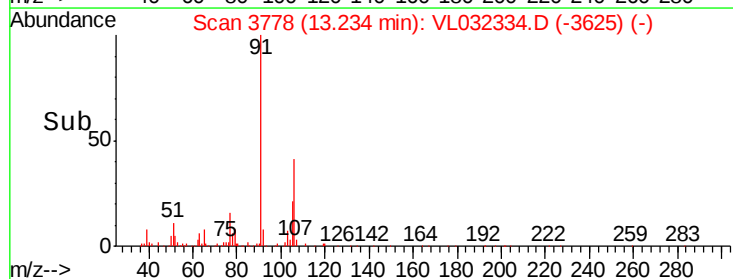
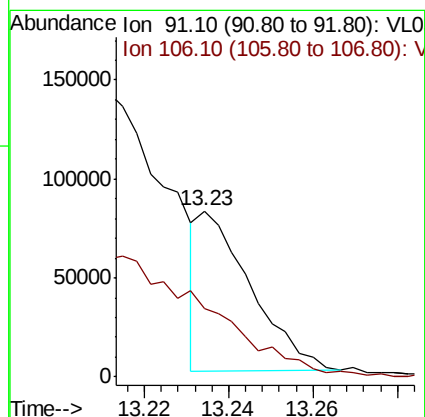
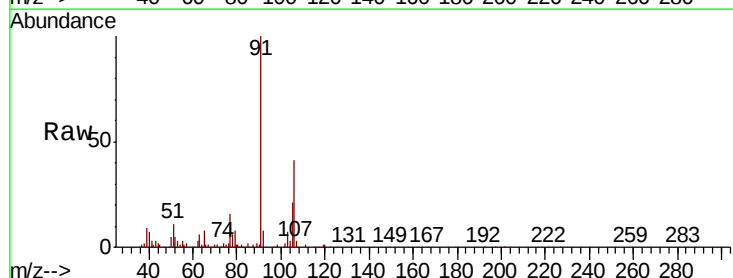
Acq: 1 Aug 2018 22:36

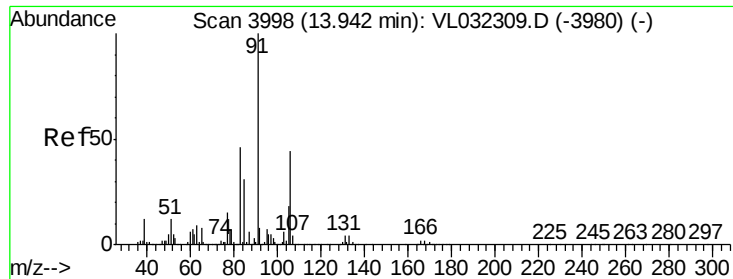
Tgt Ion: 91 Resp: 69104

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#

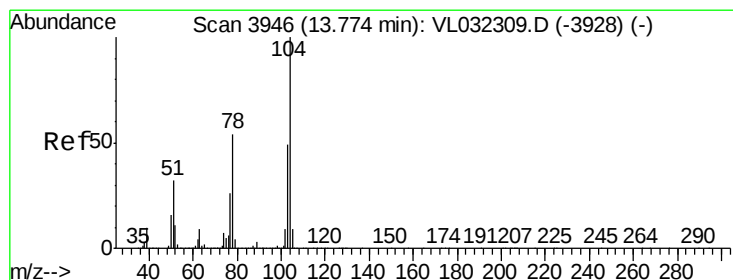
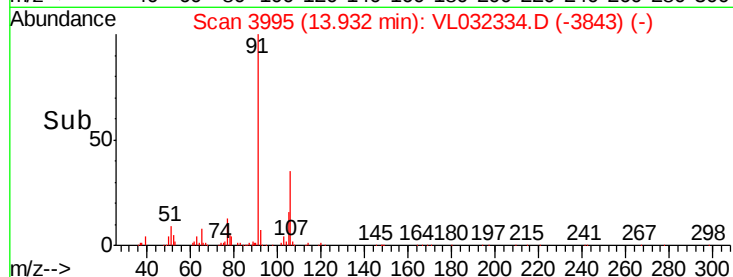
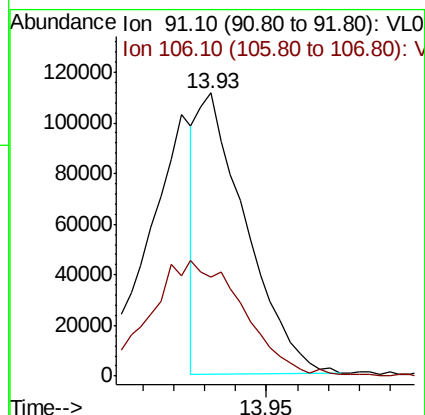
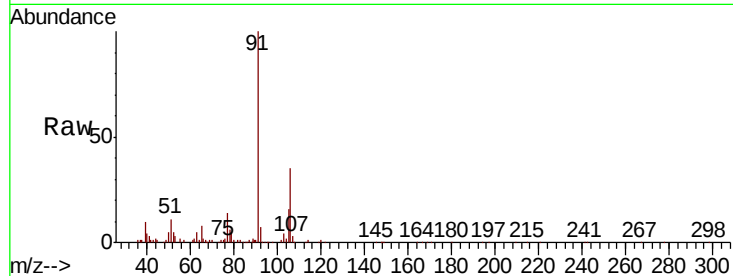




#60  
o-Xylene  
Concen: 0.267 ppbv  
RT: 13.93 min Scan# 3995  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

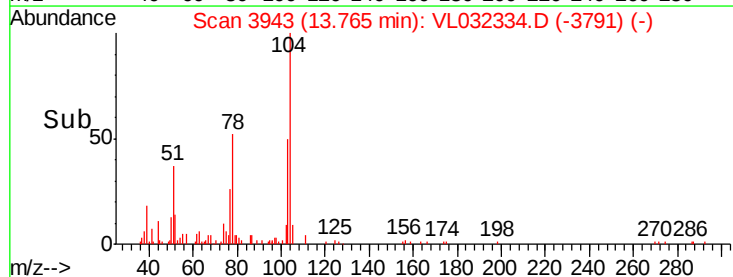
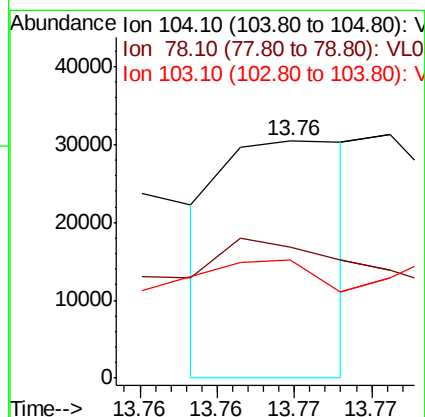
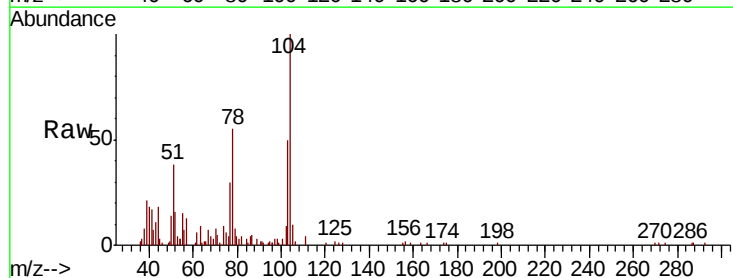
Instrument :  
MSVOA\_L  
ClientSampleId :

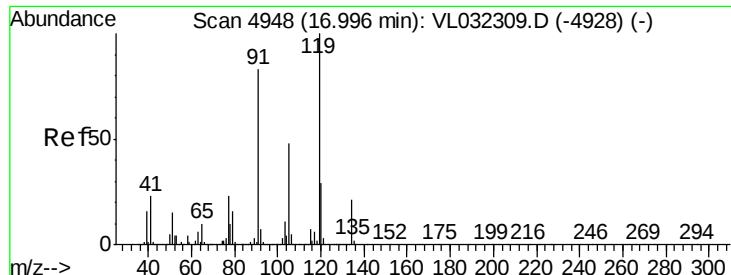
Tot Ion: 91 Resp: 120237  
Ion Ratio Lower Upper  
91 100  
106 0.0 22.4 67.0#



#61  
Styrene  
Concen: 0.053 ppbv  
RT: 13.76 min Scan# 3943  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion:104 Resp: 17431  
Ion Ratio Lower Upper  
104 100  
78 224.7 42.6 63.8#  
103 0.0 38.0 57.0#

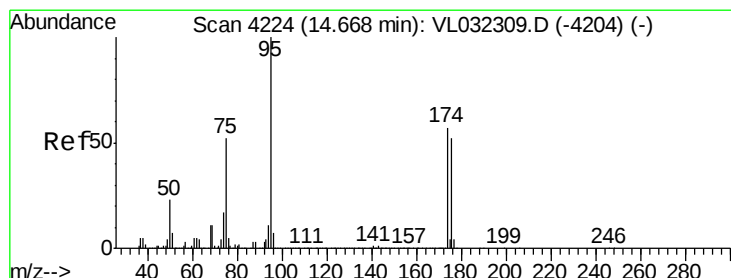
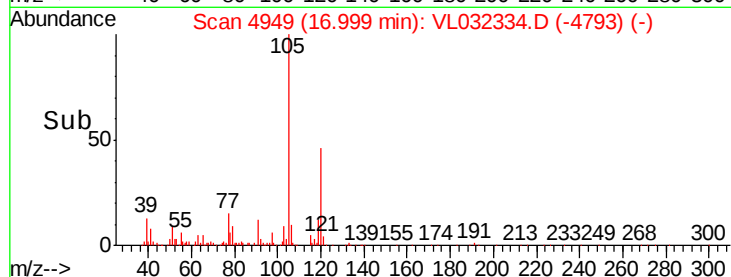
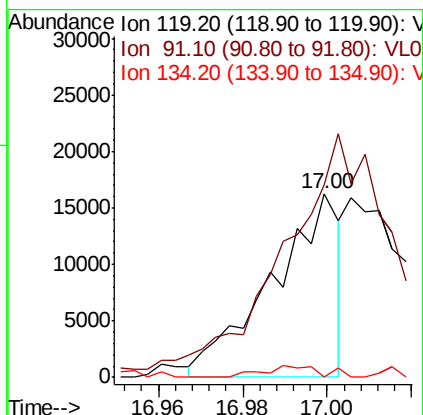
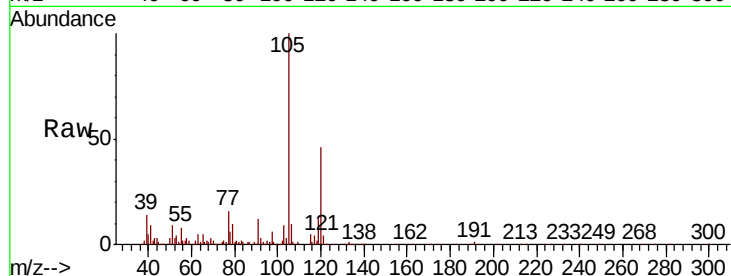




#65  
tert-Butylbenzene  
Concen: 0.033 ppbv  
RT: 17.00 min Scan# 4949  
Delta R.T. 0.00 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

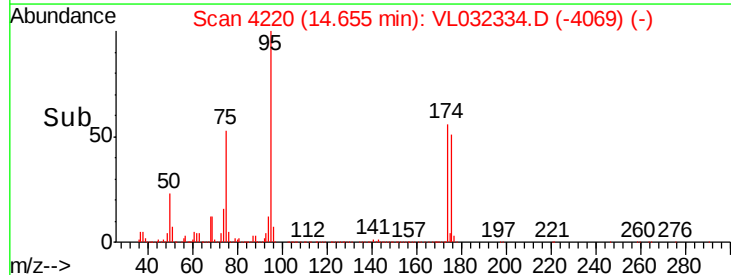
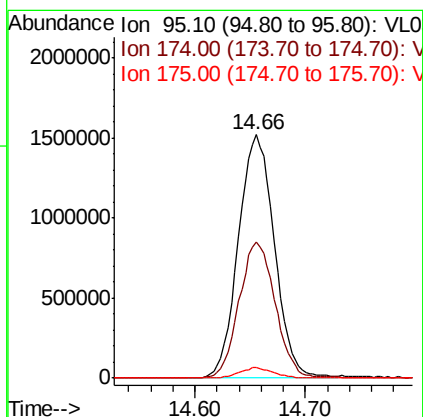
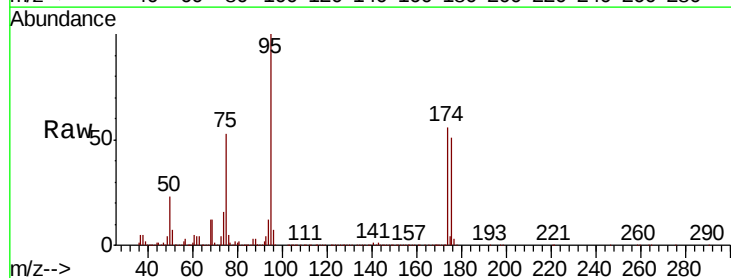
Instrument :  
MSVOA\_L  
ClientSampled :

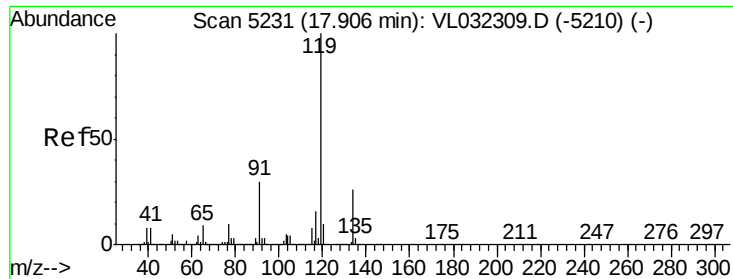
Tot Ion: 119 Resp: 18055  
Ion Ratio Lower Upper  
119 100  
91 0.0 67.5 101.3#  
134 6.6 15.8 23.6#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.298 ppbv  
RT: 14.66 min Scan# 4220  
Delta R.T. -0.01 min  
Lab File: VL032334.D  
Acq: 1 Aug 2018 22:36

Tgt Ion: 95 Resp: 3441363  
Ion Ratio Lower Upper  
95 100  
174 56.7 45.5 68.3  
175 4.1 3.3 4.9





#69

p-Isopropyltoluene

Concen: 0.054 ppbv

RT: 17.89 min Scan# 5226

Delta R.T. -0.02 min

Lab File: VL032334.D

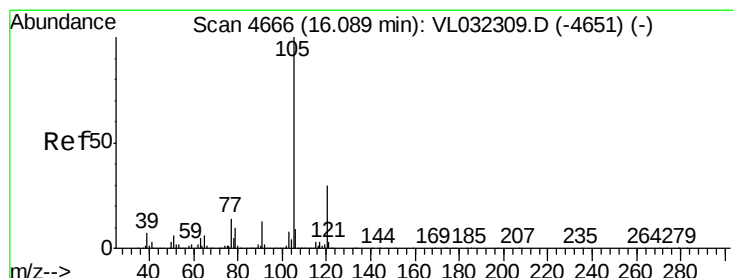
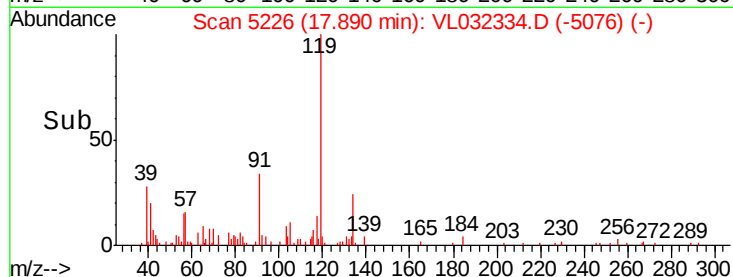
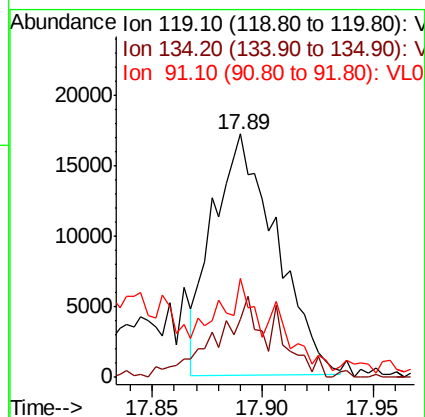
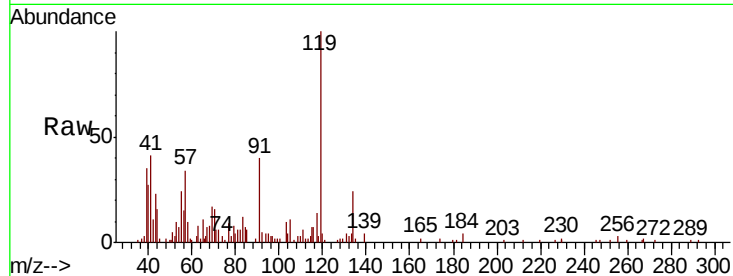
Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 119   | Resp: | 34056 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 32.2  | 20.3  | 30.5# |
| 91       | 33.8  | 23.8  | 35.6  |



#72

4-Ethyltoluene

Concen: 0.194 ppbv

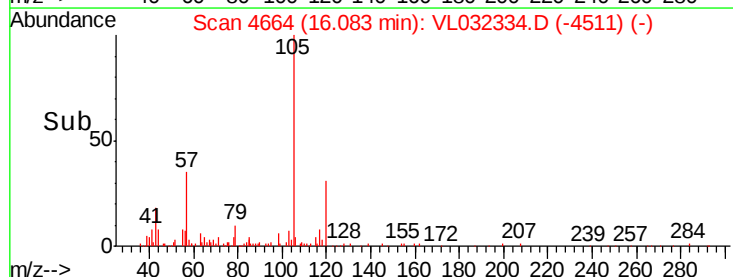
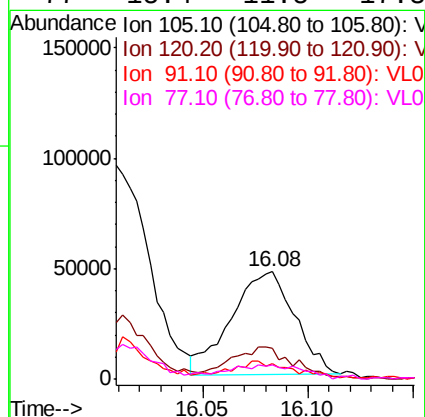
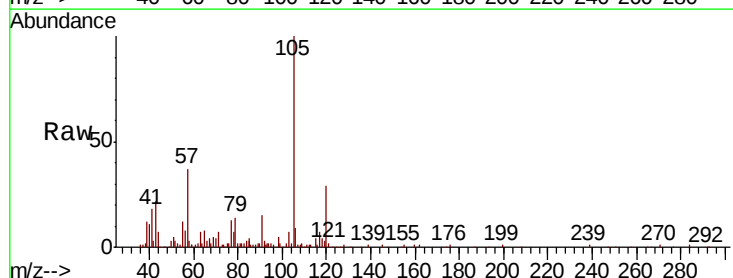
RT: 16.08 min Scan# 4664

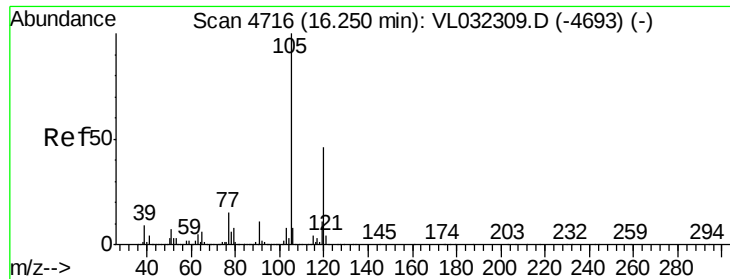
Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 98185 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 30.3  | 23.1  | 34.7  |
| 91       | 16.8  | 10.0  | 15.0# |
| 77       | 15.4  | 11.5  | 17.3  |





#73

1,3,5-Trimethylbenzene

Concen: 0.107 ppbv

RT: 16.23 min Scan# 4711

Delta R.T. -0.02 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

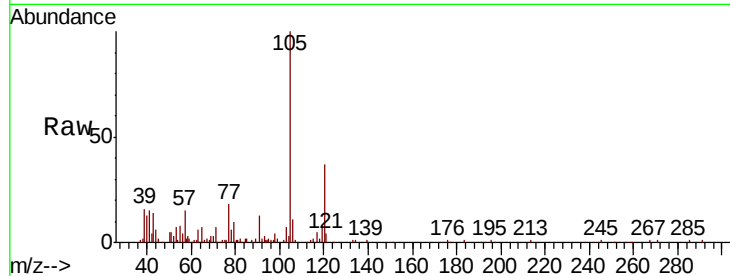
ClientSampleId :

Tot Ion:105 Resp: 52947

Ion Ratio Lower Upper

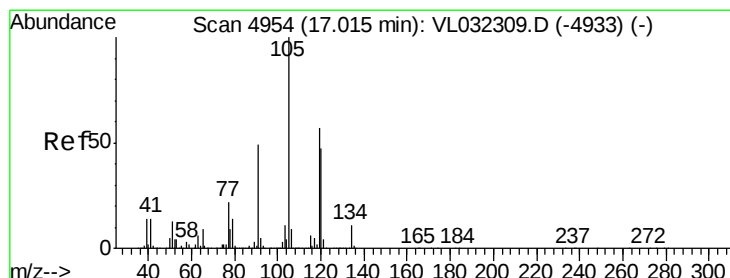
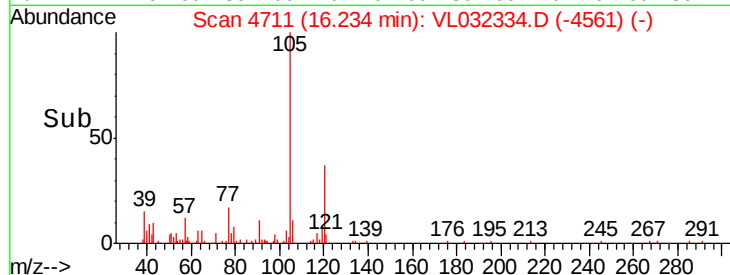
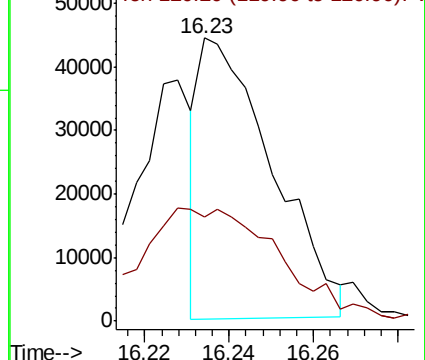
105 100

120 36.9 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

RT: 17.00 min Scan# 4950

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Tgt Ion:105 Resp: 303315

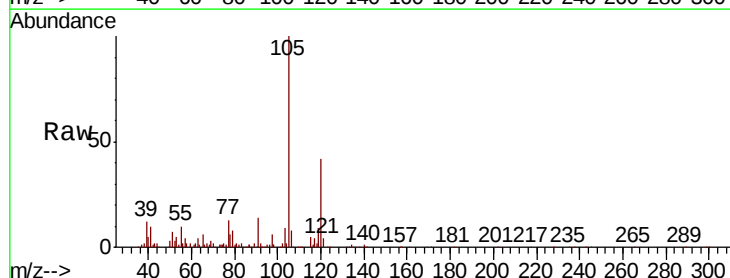
Ion Ratio Lower Upper

105 100

120 42.0 37.8 56.6

91 13.9 39.4 59.0#

77 13.2 17.6 26.4#

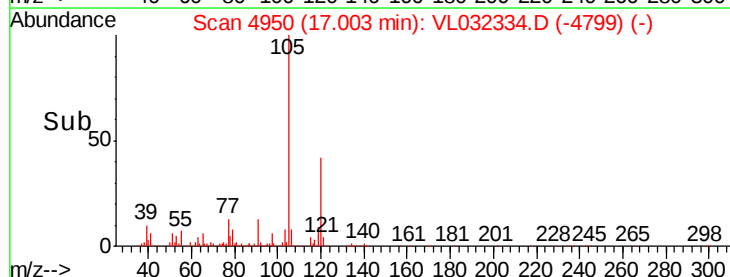
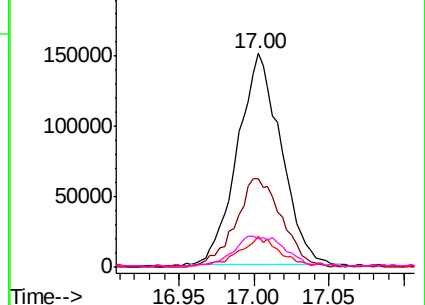


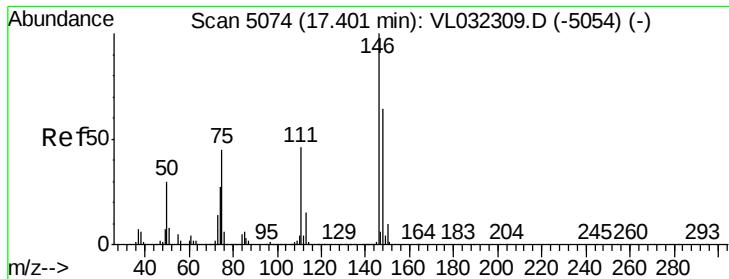
Abundance Ion 105.10 (104.80 to 105.80): V

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





#76

1,4-Dichlorobenzene

Concen: 0.090 ppbv

RT: 17.38 min Scan# 5068

Delta R.T. -0.02 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

Instrument :

MSVOA\_L

ClientSampleId :

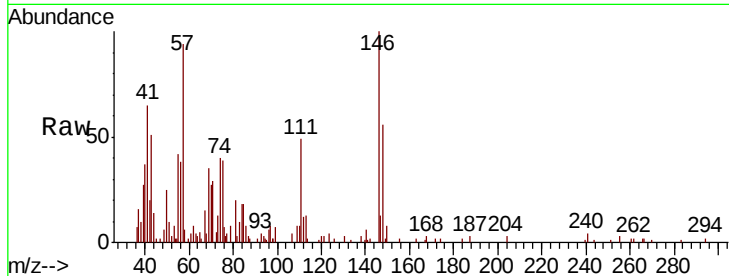
Tot Ion:146 Resp: 26311

Ion Ratio Lower Upper

146 100

111 76.1 23.6 70.8#

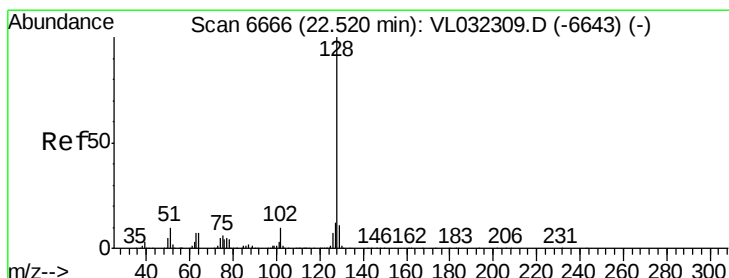
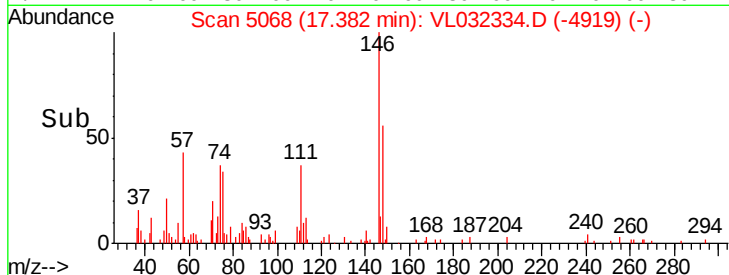
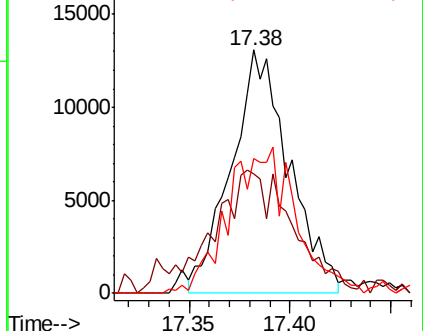
148 69.3 32.1 96.3



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



#79

Naphthalene

Concen: 0.843 ppbv

RT: 22.51 min Scan# 6663

Delta R.T. -0.01 min

Lab File: VL032334.D

Acq: 1 Aug 2018 22:36

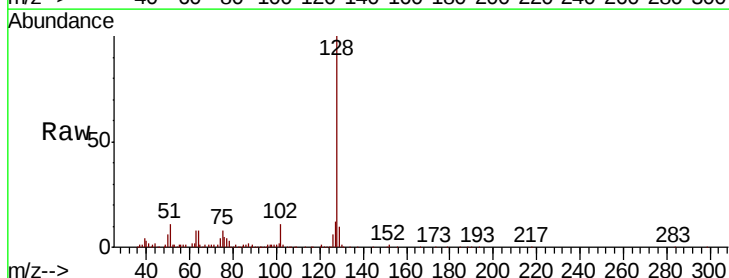
Tgt Ion:128 Resp: 383160

Ion Ratio Lower Upper

128 100

127 12.0 9.9 14.9

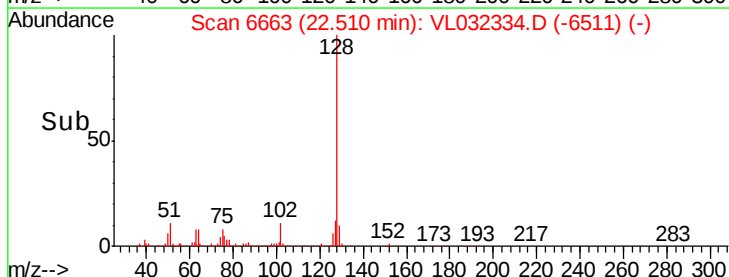
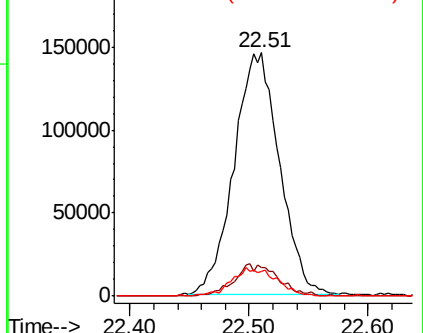
129 10.2 8.8 13.2

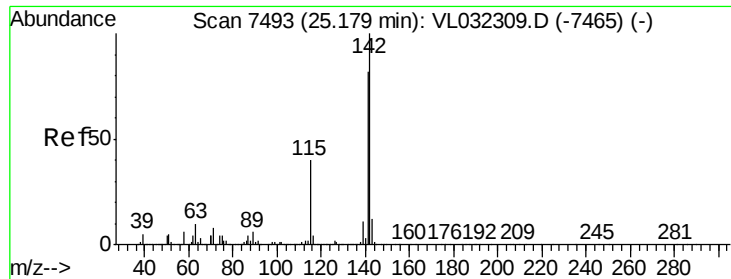


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

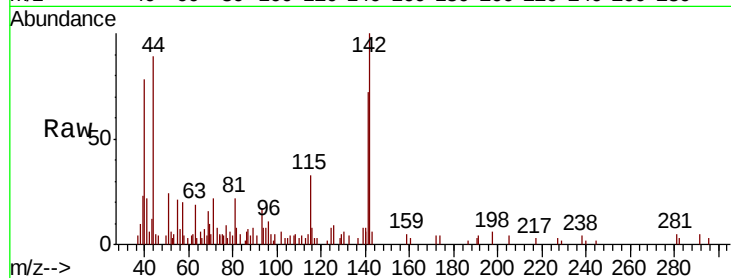




#80  
 Naphthalene, 2-methyl-  
 Concen: 0.068 ppbv  
 RT: 25.18 min Scan# 7493  
 Delta R.T. -0.00 min  
 Lab File: VL032334.D  
 Acq: 1 Aug 2018 22:36

Instrument :  
 MSVOA\_L  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.8  | 66.7  | 100.1 |
| 115     | 46.6  | 31.1  | 46.7  |



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

