

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\  
 Data File : VL032316.D  
 Acq On : 27 Jul 2018 11:18  
 Operator : SY/AP  
 Sample : VSTDICV010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 27 23:17:14 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   | 1937508  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.37  | 114  | 4255887  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.33 | 117  | 6162655  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.67  | 95    | 3995677  | 8.35     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.50% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.12 | 85   | 1801539  | 7.709  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.06 | 51   | 1850530  | 9.552  | ppbv   | 100    |
| 4) Chloromethane               | 3.22 | 50   | 1135732  | 9.683  | ppbv   | 96     |
| 5) Vinyl Chloride              | 3.34 | 62   | 1039023  | 9.744  | ppbv   | 100    |
| 6) Bromomethane                | 3.57 | 94   | 575640   | 9.832  | ppbv   | 92     |
| 7) Chloroethane                | 3.65 | 64   | 386641   | 10.197 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane   | 3.27 | 85   | 2089761  | 8.854  | ppbv   | 100    |
| 9) Propene                     | 3.08 | 41   | 928480   | 10.660 | ppbv   | 98     |
| 10) Heptane                    | 8.32 | 43   | 3128991  | 10.233 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 4.06 | 101  | 2056333  | 9.212  | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.61 | 101  | 1435439  | 9.419  | ppbv   | 100    |
| 13) Ethanol                    | 3.70 | 45   | 254114   | 10.151 | ppbv   | 98     |
| 14) Bromoethene                | 3.84 | 108  | 676366   | 10.110 | ppbv   | 98     |
| 15) Acetone                    | 3.96 | 43   | 1745336  | 9.558  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.41 | 39   | 869950   | 9.189  | ppbv   | 100    |
| 17) tert-Butyl alcohol         | 4.42 | 59   | 553880   | 9.543  | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.41 | 96   | 674430   | 9.538  | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 4.08 | 45   | 1359609  | 11.158 | ppbv # | 99     |
| 20) Methylene Chloride         | 4.47 | 84   | 619369   | 8.439  | ppbv   | 98     |
| 21) Allyl Chloride             | 4.54 | 41   | 1255942  | 10.082 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 5.03 | 96   | 705882   | 10.353 | ppbv   | 99     |
| 23) Vinyl Acetate              | 5.22 | 43   | 3359624  | 10.256 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.16 | 63   | 2197310  | 9.351  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.84 | 43   | 3809504  | 9.296  | ppbv   | 100    |
| 26) Hexane                     | 5.85 | 57   | 1754474  | 9.462  | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.68 | 76   | 1753394  | 10.401 | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.18 | 73   | 2631266  | 10.492 | ppbv   | 100    |
| 29) Chloroform                 | 5.92 | 83   | 2486340  | 9.218  | ppbv   | 99     |
| 30) Cyclohexane                | 7.32 | 84   | 1510688  | 10.442 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene     | 5.71 | 61   | 1784123  | 10.378 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.69 | 97   | 2393584  | 10.028 | ppbv   | 100    |
| 34) 2-Butanone                 | 5.40 | 43   | 2726728  | 9.899  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.21 | 117  | 2449100  | 10.131 | ppbv   | 98     |
| 36) Benzene                    | 7.08 | 78   | 3744593  | 9.982  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.49 | 62   | 1908214  | 8.803  | ppbv   | 99     |
| 38) Trichloroethene            | 8.04 | 130  | 1464478  | 10.101 | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.82 | 63   | 1454592  | 7.707  | ppbv   | 98     |
| 40) 1,4-Dioxane                | 8.04 | 88   | 604975   | 10.915 | ppbv   | 87     |
| 41) Tetrahydrofuran            | 6.22 | 42   | 1687817  | 10.832 | ppbv   | 100    |
| 42) Bromodichloromethane       | 8.00 | 83   | 3414558  | 9.730  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.22 | 69   | 1898478  | 10.543 | ppbv   | 99     |

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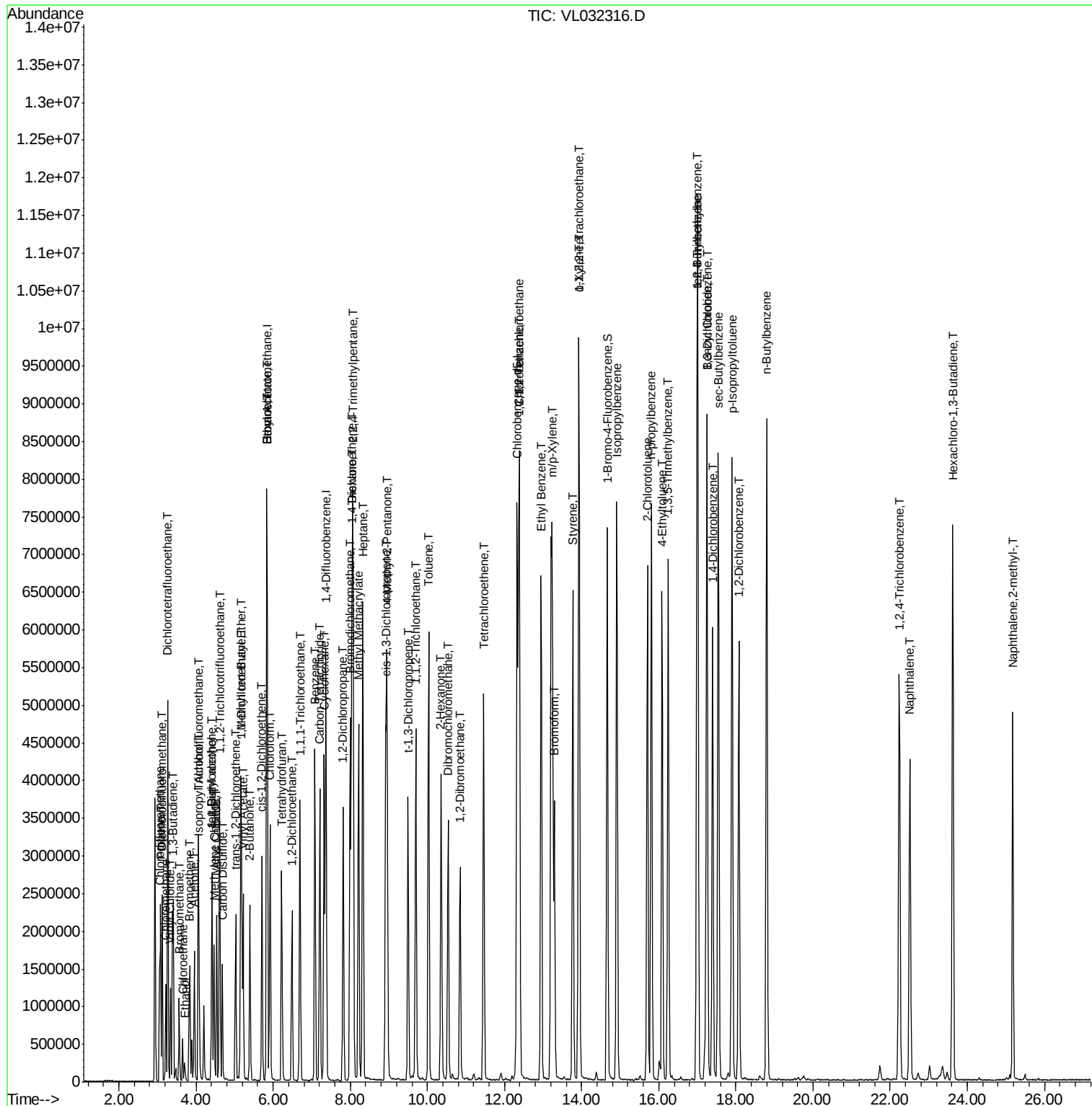
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 8.07  | 57   | 7795128  | 9.582  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.50  | 75   | 2339820  | 11.213 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.92  | 75   | 2772299  | 10.843 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.70  | 97   | 1697483  | 9.252  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.54 | 129  | 2189761  | 8.097  | ppbv   | 100      |
| 49) Bromoform                 | 13.29 | 173  | 2153133  | 9.669  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.95  | 43   | 4877529  | 10.035 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.35 | 43   | 4024175  | 10.865 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.46 | 164  | 1269796  | 10.045 | ppbv   | 98       |
| 53) Toluene                   | 10.03 | 91   | 4864441  | 10.847 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.85 | 107  | 2528017  | 9.697  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.37 | 131  | 1867353  | 7.349  | ppbv # | 54       |
| 57) Chlorobenzene             | 12.39 | 112  | 3410345  | 7.117  | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.95 | 91   | 6451861  | 8.351  | ppbv   | 97       |
| 59) m/p-Xylene                | 13.23 | 91   | 4743500  | 7.211  | ppbv # | 19       |
| 60) o-Xylene                  | 13.94 | 91   | 4979435  | 7.721  | ppbv   | 99       |
| 61) Styrene                   | 13.77 | 104  | 3996432  | 8.420  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.91 | 105  | 7114801  | 7.765  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.92 | 83   | 3719497  | 7.087  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.81 | 120  | 1841951  | 7.722  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 17.00 | 119  | 5774875  | 7.460  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.24 | 91   | 3719609  | 8.062  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.55 | 105  | 8683226  | 7.491  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.90 | 119  | 6892179  | 7.674  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.80 | 91   | 7673981  | 7.401  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.71 | 91   | 5676761  | 7.895  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.09 | 105  | 5871529  | 8.123  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.24 | 105  | 5542970  | 7.791  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 17.02 | 105  | 5411927  | 7.216  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.25 | 146  | 3017278  | 6.947  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.39 | 146  | 3060640  | 7.344  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 18.08 | 146  | 2999229  | 7.028  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.63 | 225  | 1817627  | 12.112 | ppbv   | 100      |
| 79) Naphthalene               | 22.51 | 128  | 5354300  | 8.226  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 25.18 | 142  | 2675784  | 10.389 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.24 | 180  | 2524052  | 7.760  | ppbv   | 99       |
| -----                         |       |      |          |        |        |          |

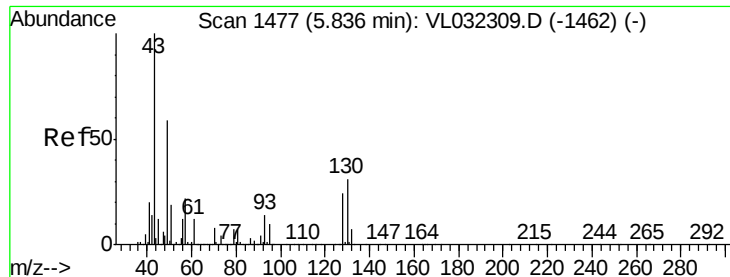
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 27 07:05:37 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampled :

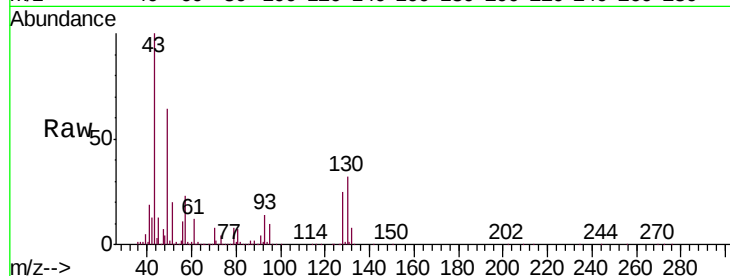
Tot Ion: 49 Resp: 1937508

Ion Ratio Lower Upper

49 100

128 39.6 20.2 60.6

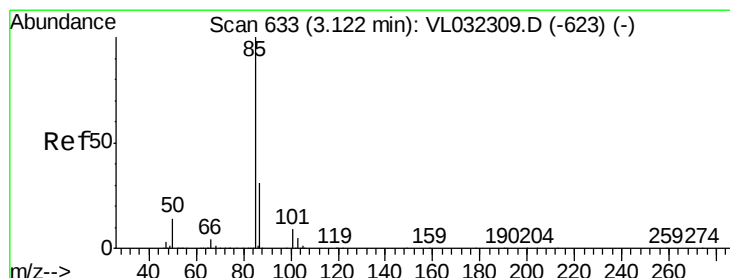
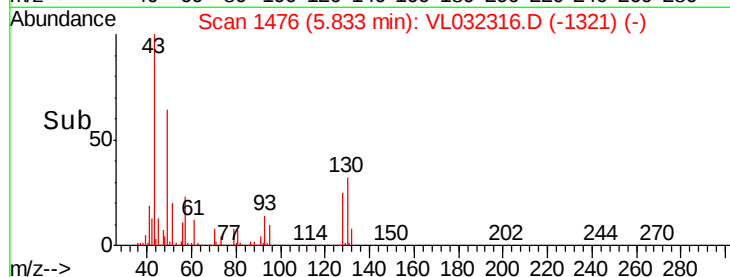
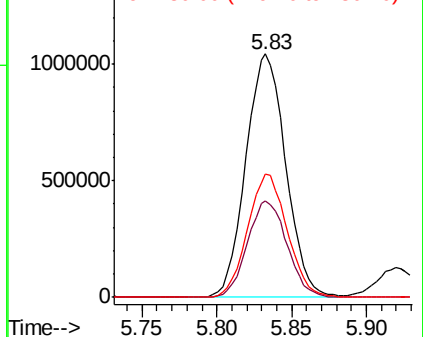
130 50.3 25.8 77.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.709 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL032316.D

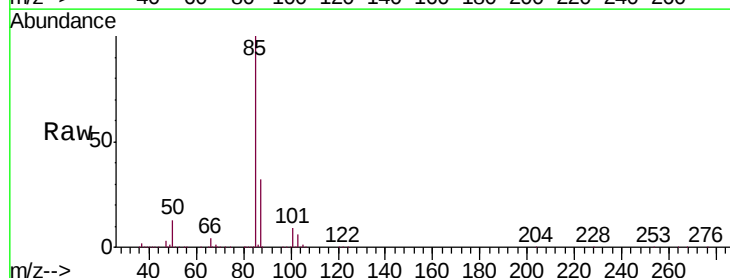
Acq: 27 Jul 2018 11:18

Tgt Ion: 85 Resp: 1801539

Ion Ratio Lower Upper

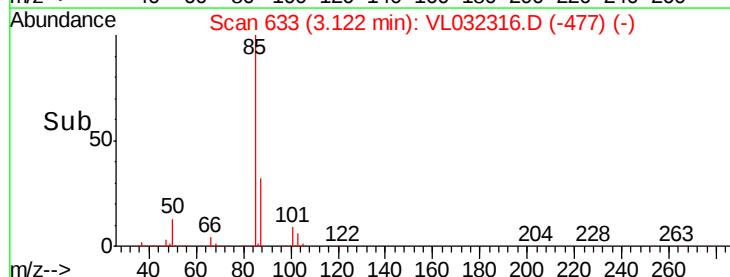
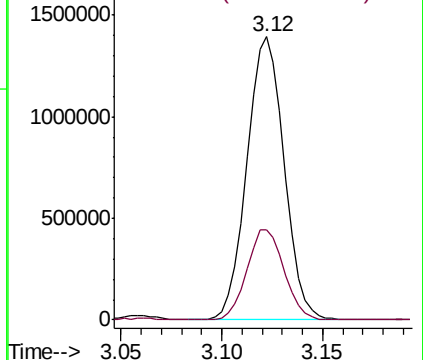
85 100

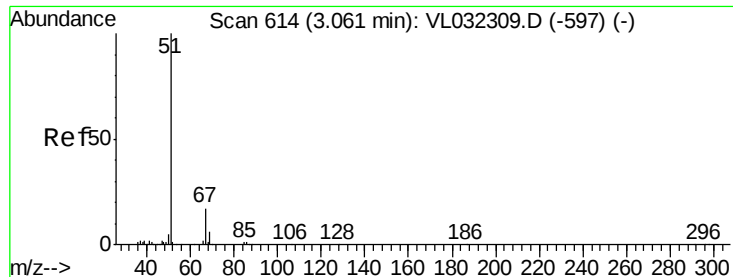
87 31.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.552 ppbv

RT: 3.06 min Scan# 613

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

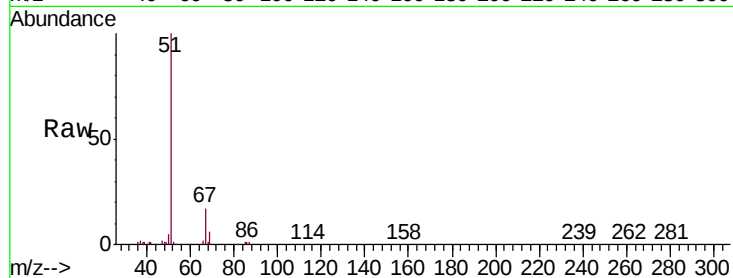
ClientSampleId :

Tot Ion: 51 Resp: 1850530

Ion Ratio Lower Upper

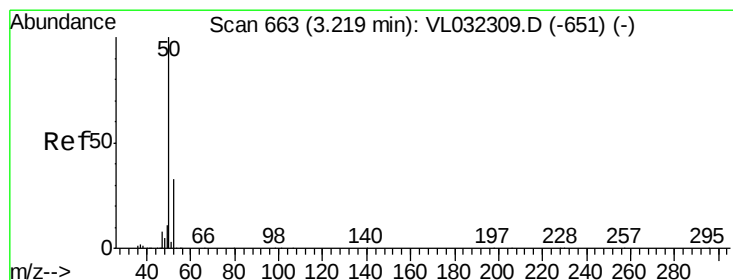
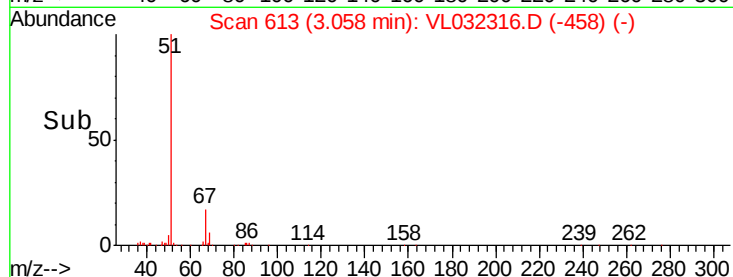
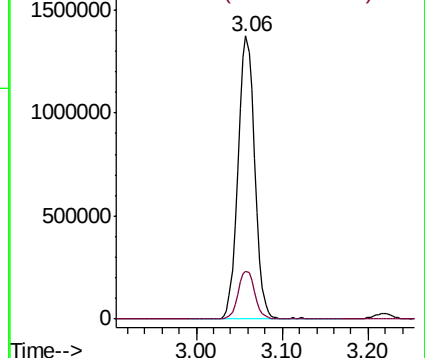
51 100

67 16.8 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.683 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032316.D

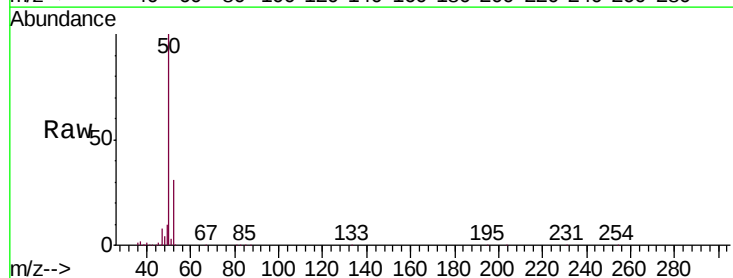
Acq: 27 Jul 2018 11:18

Tgt Ion: 50 Resp: 1135732

Ion Ratio Lower Upper

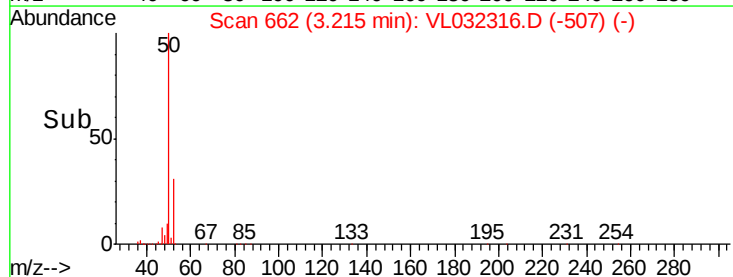
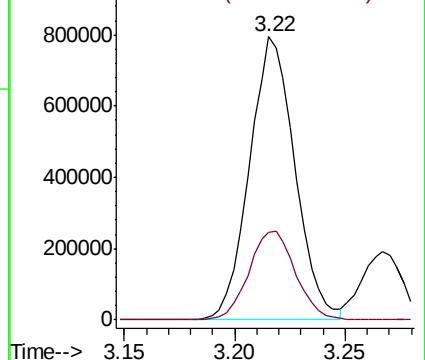
50 100

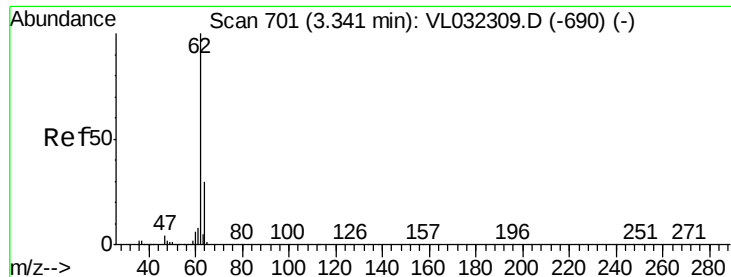
52 30.8 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.744 ppbv

RT: 3.34 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

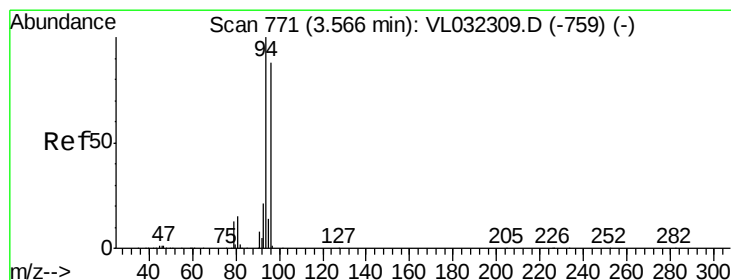
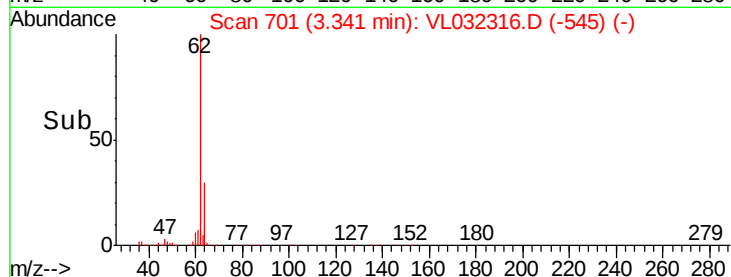
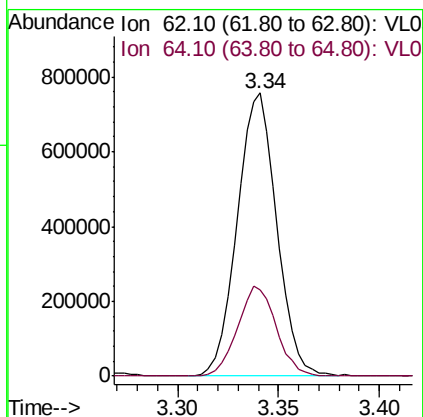
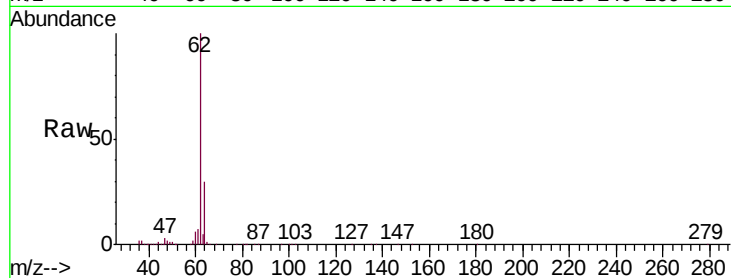
ClientSampleId :

Tot Ion: 62 Resp: 1039023

Ion Ratio Lower Upper

62 100

64 30.3 24.1 36.1



#6

Bromomethane

Concen: 9.832 ppbv

RT: 3.57 min Scan# 771

Delta R.T. 0.00 min

Lab File: VL032316.D

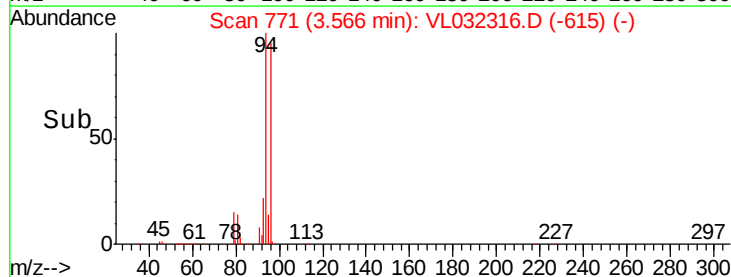
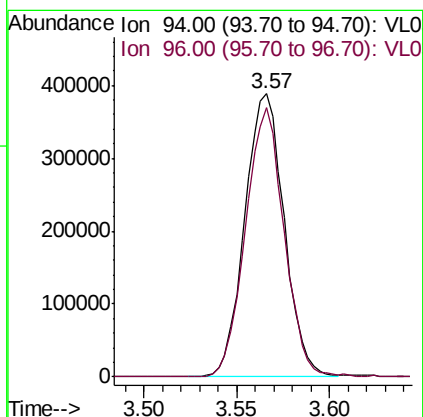
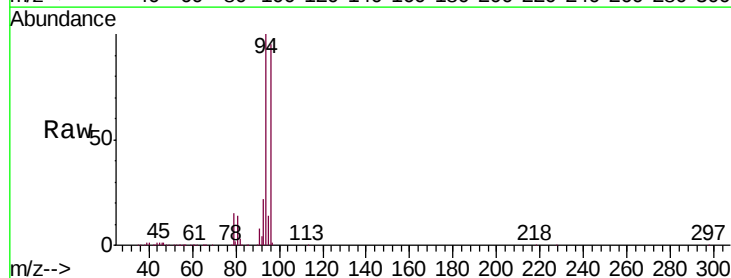
Acq: 27 Jul 2018 11:18

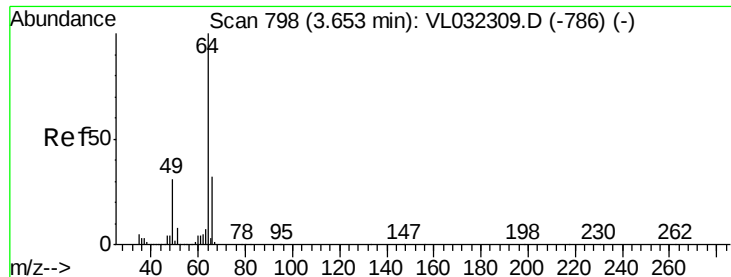
Tgt Ion: 94 Resp: 575640

Ion Ratio Lower Upper

94 100

96 95.0 70.2 105.4





#7

Chloroethane

Concen: 10.197 ppbv

RT: 3.65 min Scan# 798

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

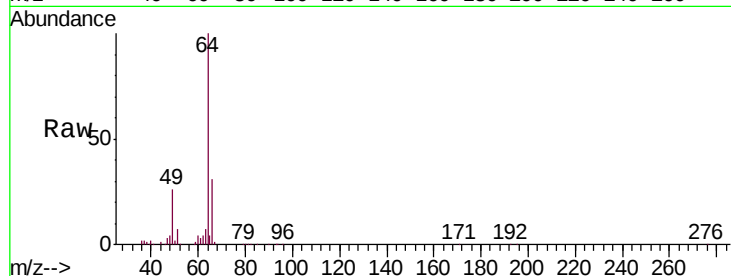
ClientSampled :

Tot Ion: 64 Resp: 386641

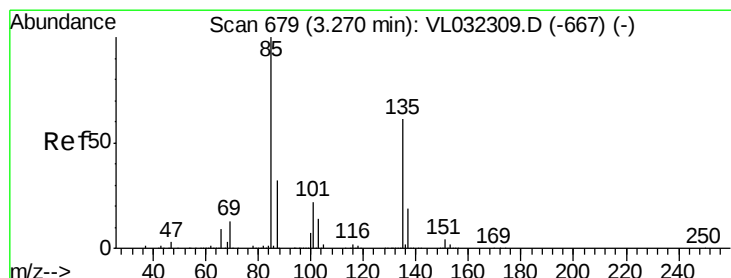
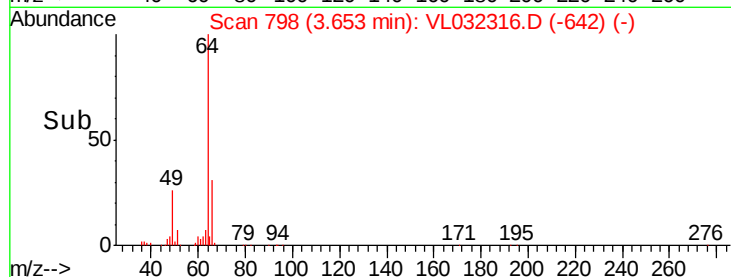
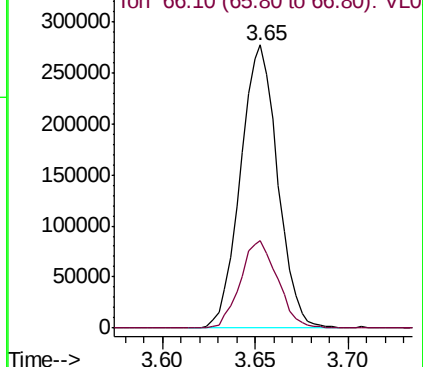
Ion Ratio Lower Upper

64 100

66 31.0 25.7 38.5



Abundance Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.854 ppbv

RT: 3.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032316.D

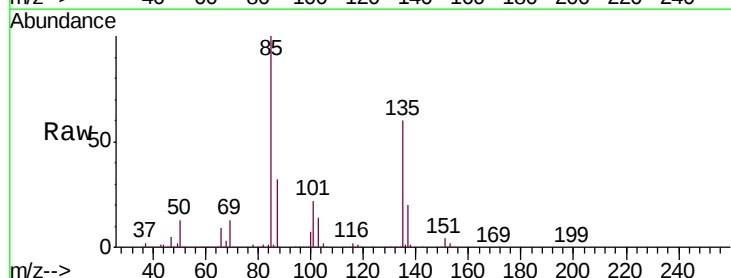
Acq: 27 Jul 2018 11:18

Tgt Ion: 85 Resp: 2089761

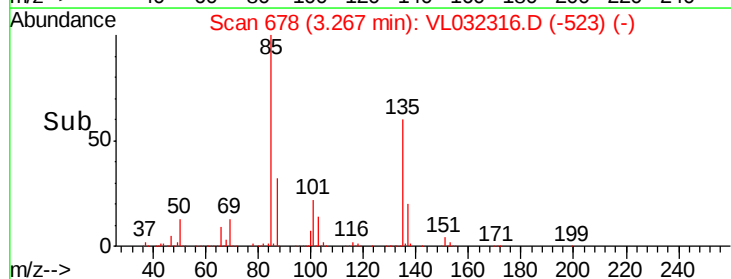
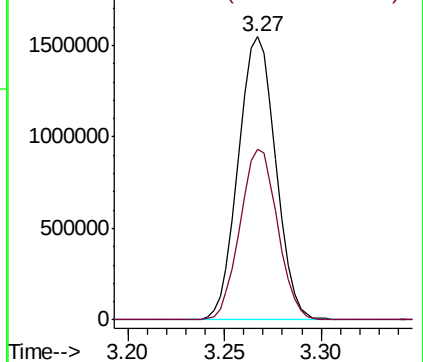
Ion Ratio Lower Upper

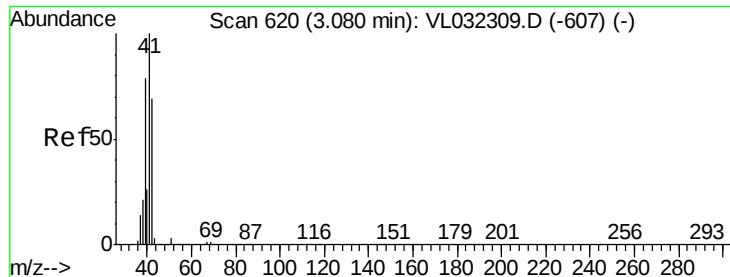
85 100

135 60.6 48.7 73.1



Abundance Ion 85.00 (84.70 to 85.70): VL0





#9

Propene

Concen: 10.660 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

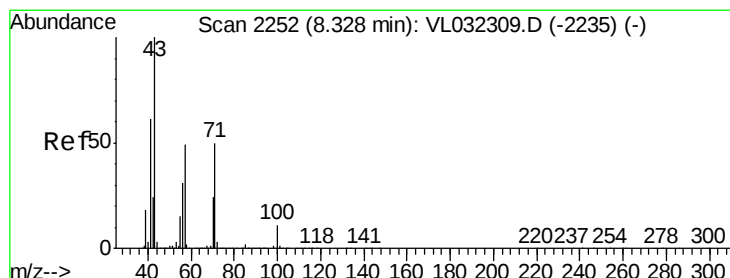
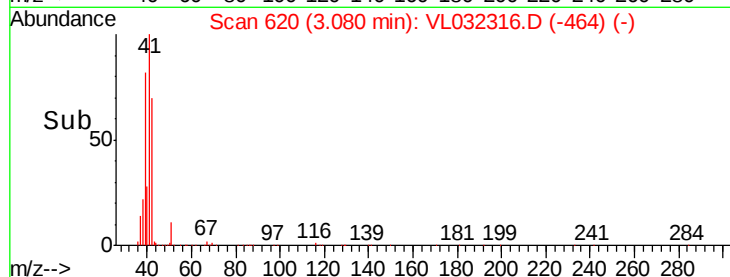
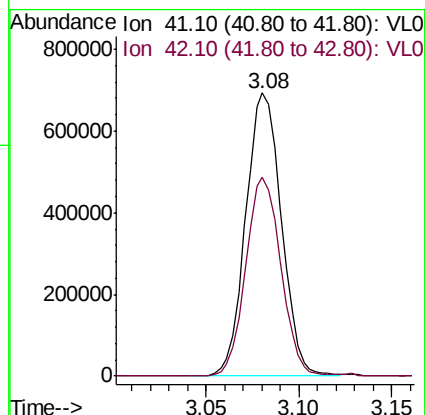
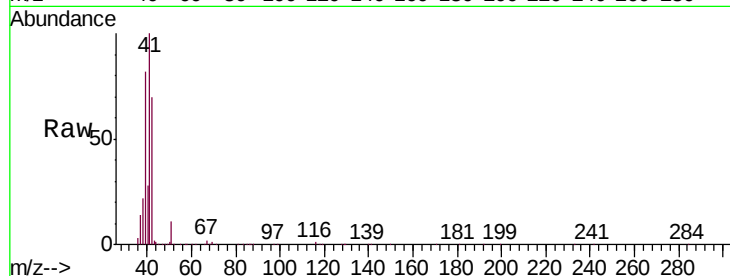
ClientSampleId :

Tot Ion: 41 Resp: 928480

Ion Ratio Lower Upper

41 100

42 69.5 56.8 85.2



#10

Heptane

Concen: 10.233 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VL032316.D

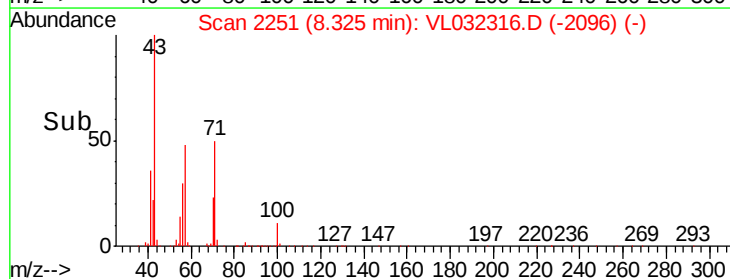
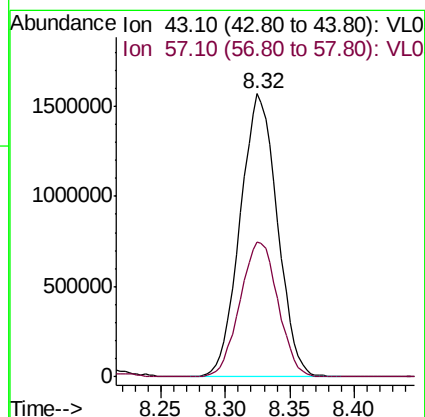
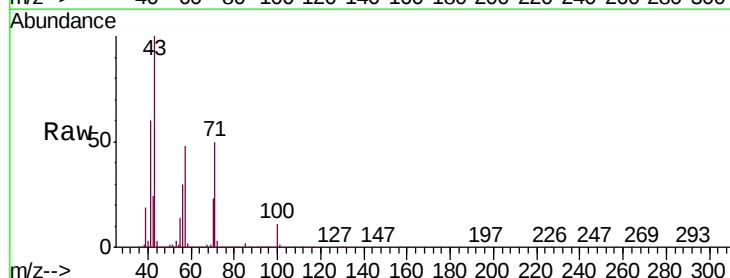
Acq: 27 Jul 2018 11:18

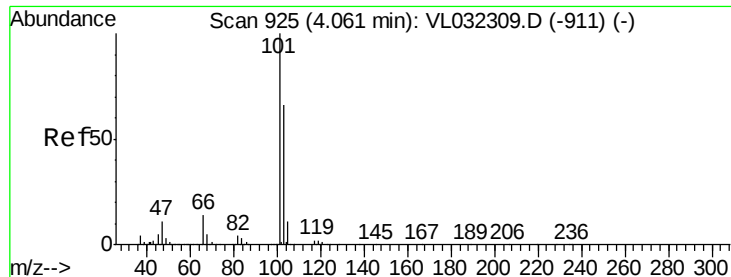
Tgt Ion: 43 Resp: 3128991

Ion Ratio Lower Upper

43 100

57 49.1 39.0 58.4

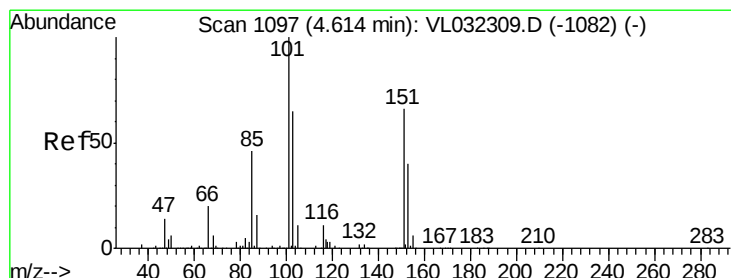
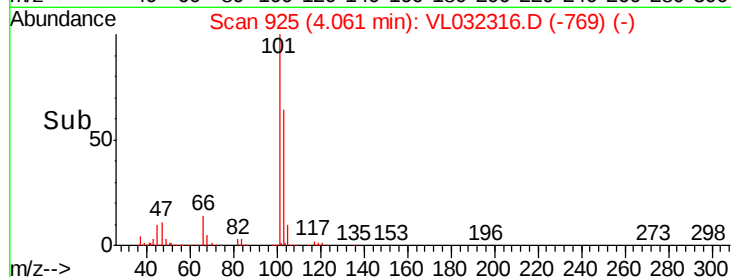
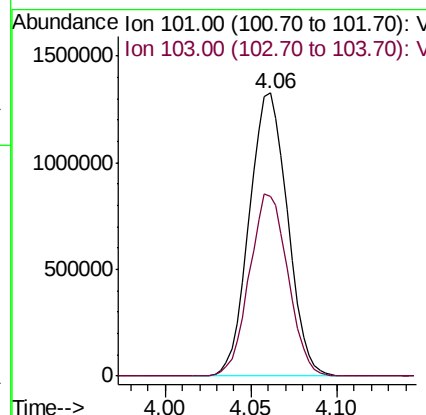
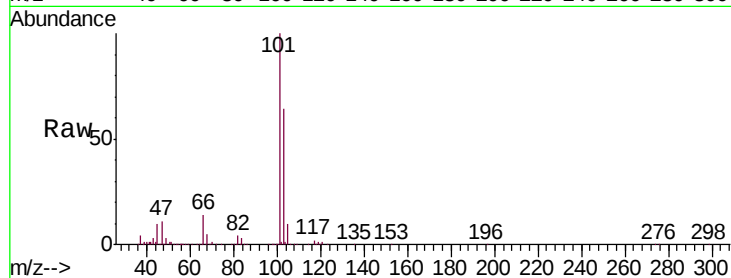




#11  
 Trichlorofluoromethane  
 Concen: 9.212 ppbv  
 RT: 4.06 min Scan# 925  
 Delta R.T. 0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

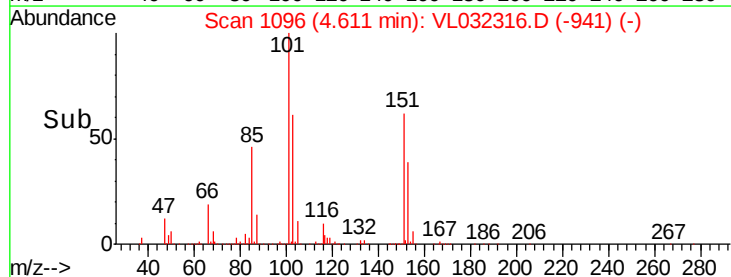
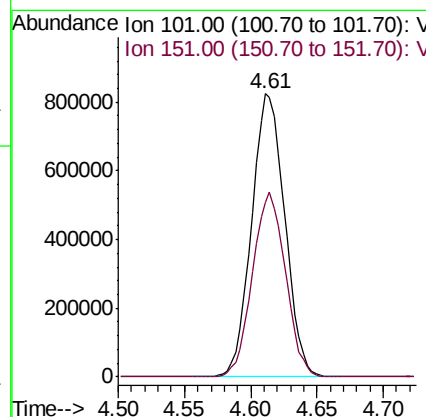
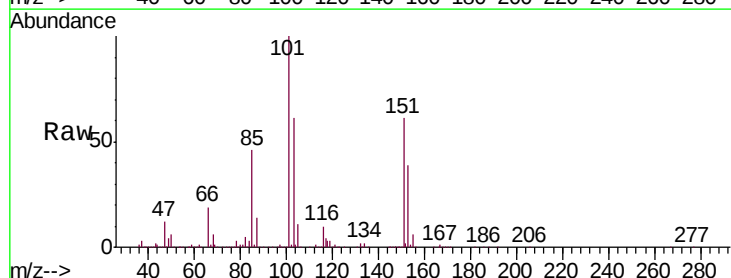
Instrument :  
 MSVOA\_L  
 ClientSampleId :

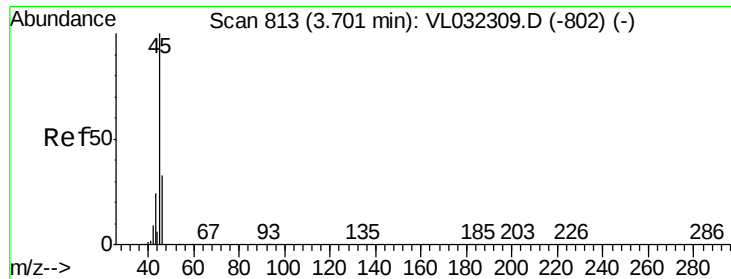
Tot Ion:101 Resp: 2056333  
 Ion Ratio Lower Upper  
 101 100  
 103 63.5 52.6 78.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.419 ppbv  
 RT: 4.61 min Scan# 1096  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion:101 Resp: 1435439  
 Ion Ratio Lower Upper  
 101 100  
 151 65.2 52.4 78.6





#13

Ethanol

Concen: 10.151 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

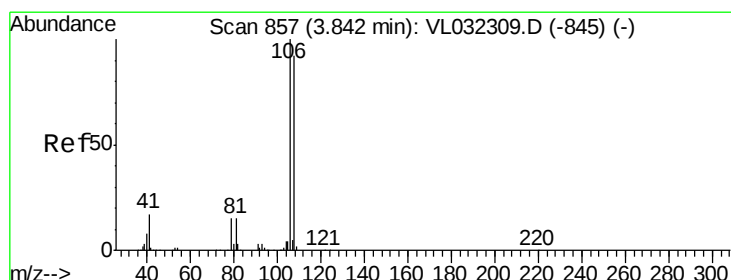
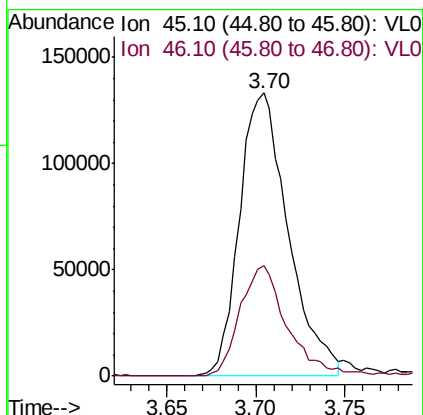
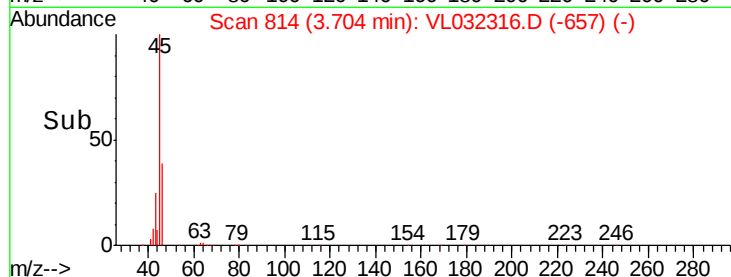
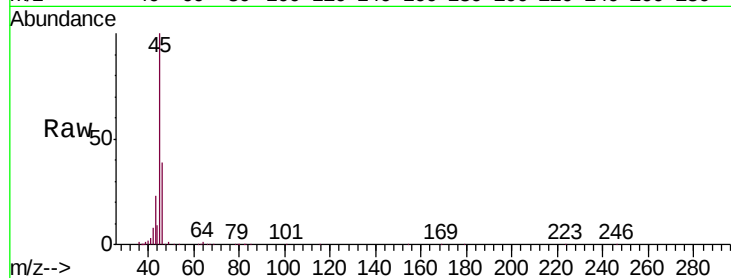
ClientSampleId :

Tot Ion: 45 Resp: 254114

Ion Ratio Lower Upper

45 100

46 39.3 15.2 60.6



#14

Bromoethene

Concen: 10.110 ppbv

RT: 3.84 min Scan# 857

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

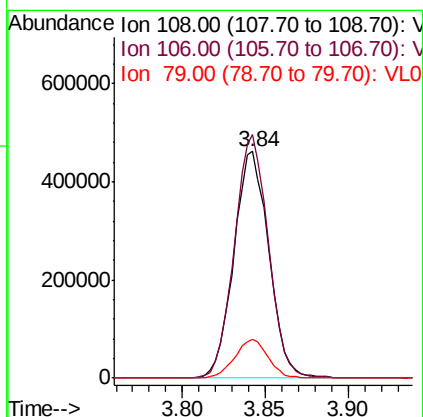
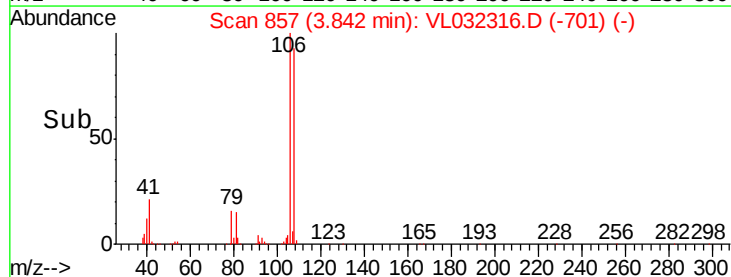
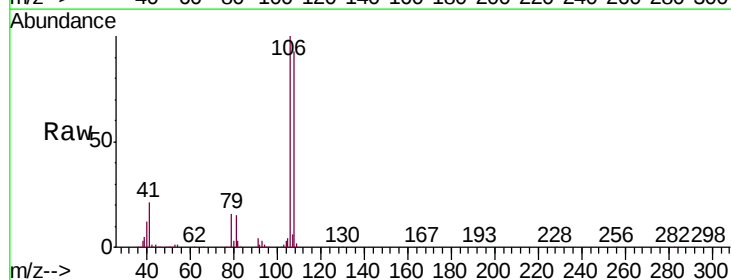
Tgt Ion: 108 Resp: 676366

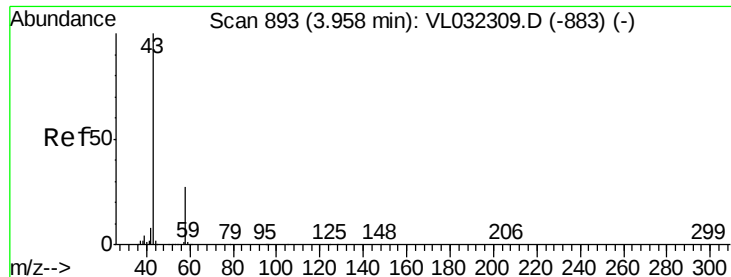
Ion Ratio Lower Upper

108 100

106 105.3 86.0 129.0

79 16.6 12.8 19.2





#15

Acetone

Concen: 9.558 ppbv

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

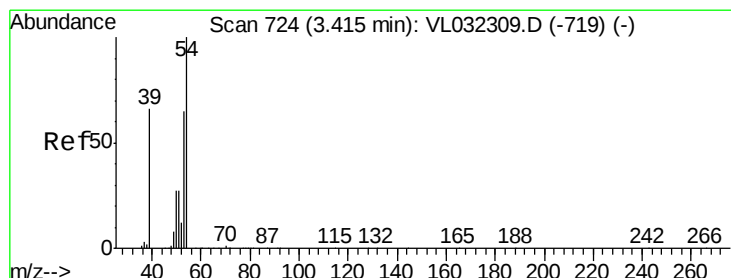
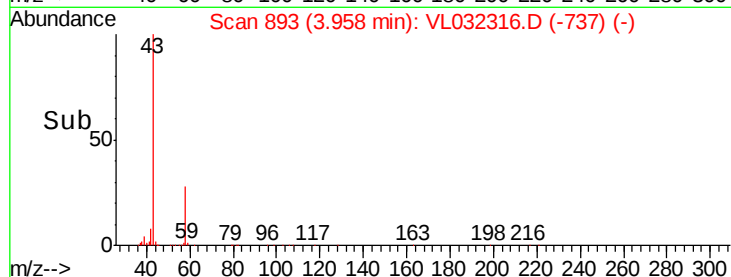
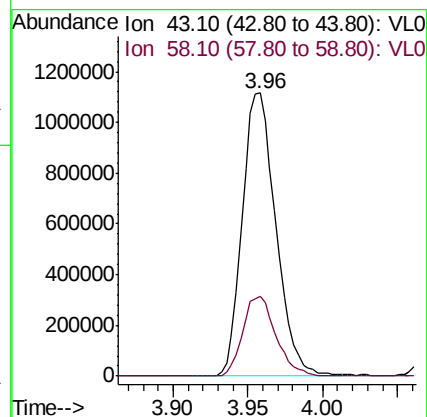
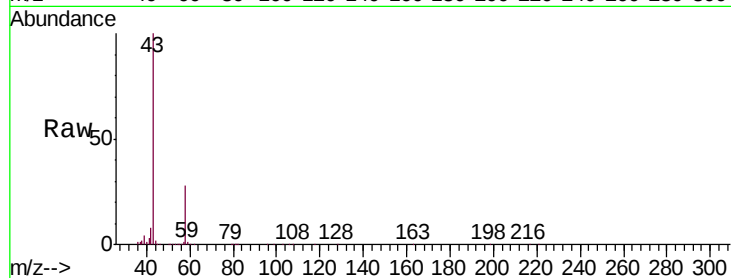
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 1745336

Ion Ratio Lower Upper

43 100

58 28.1 22.5 33.7



#16

1,3-Butadiene

Concen: 9.189 ppbv

RT: 3.41 min Scan# 723

Delta R.T. -0.00 min

Lab File: VL032316.D

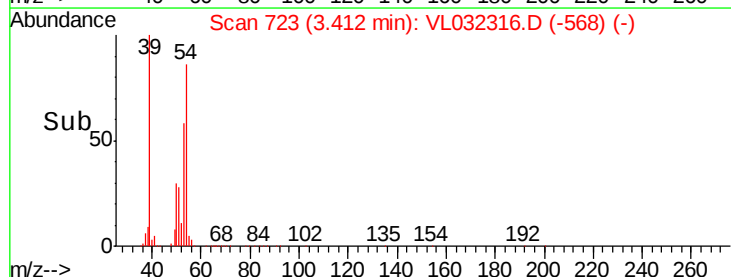
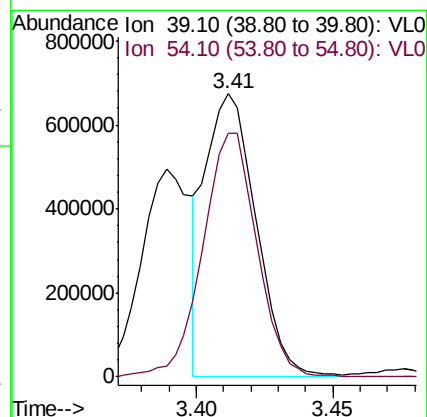
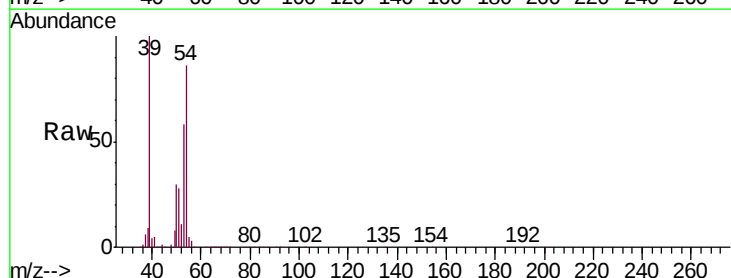
Acq: 27 Jul 2018 11:18

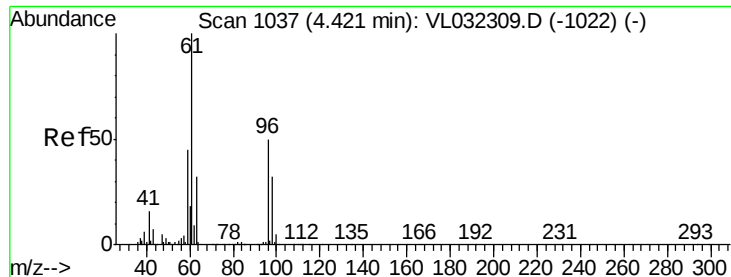
Tgt Ion: 39 Resp: 869950

Ion Ratio Lower Upper

39 100

54 92.9 74.3 111.5

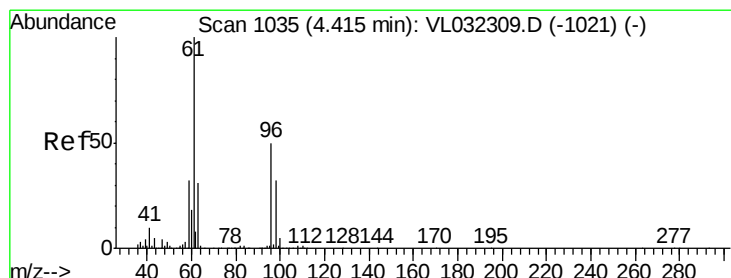
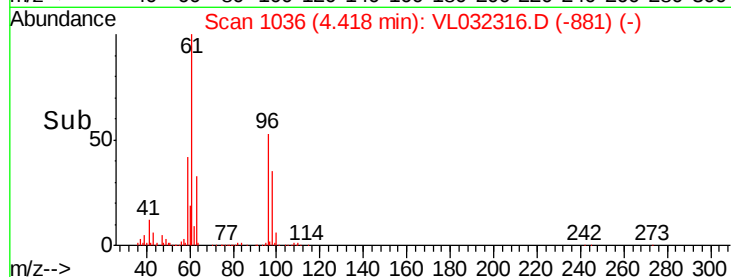
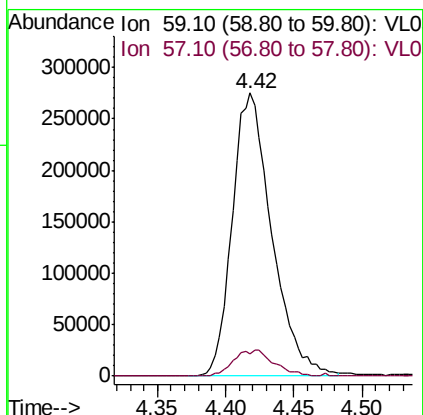
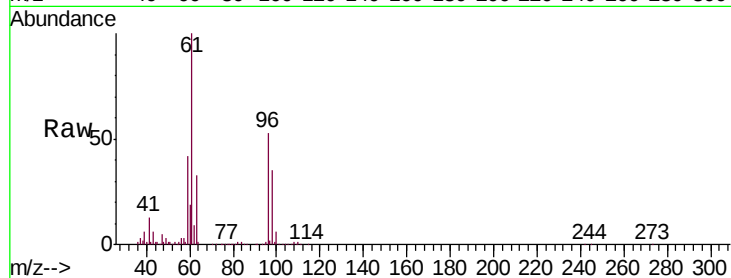




#17  
tert-Butyl alcohol  
Concen: 9.543 ppbv  
RT: 4.42 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

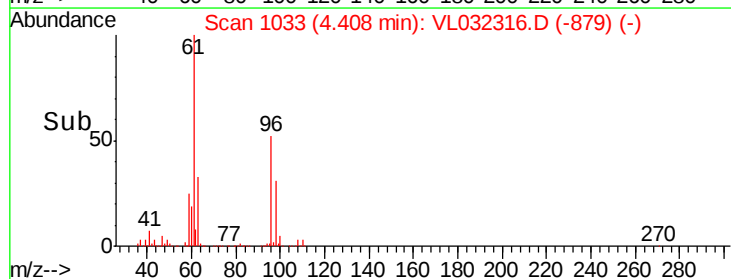
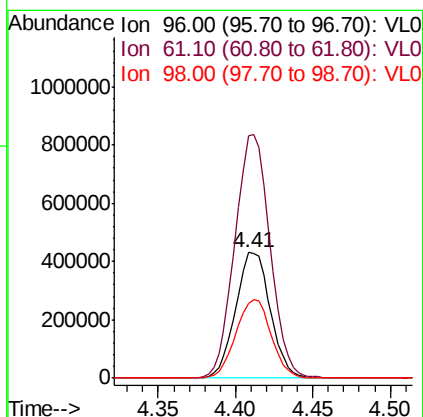
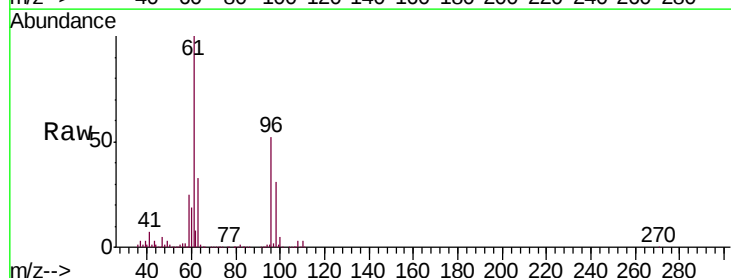
Instrument :  
MSVOA\_L  
ClientSampleId :

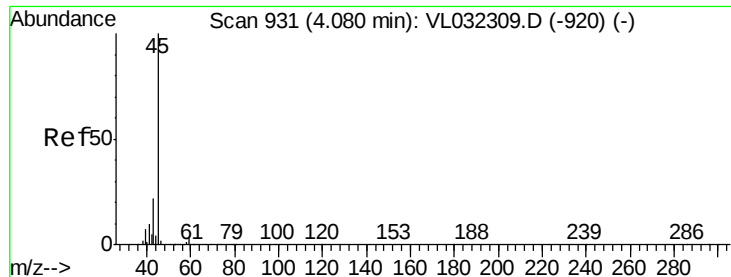
Tot Ion: 59 Resp: 553880  
Ion Ratio Lower Upper  
59 100  
57 9.7 8.0 12.0



#18  
1,1-Dichloroethene  
Concen: 9.538 ppbv  
RT: 4.41 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 96 Resp: 674430  
Ion Ratio Lower Upper  
96 100  
61 192.8 159.0 238.4  
98 59.6 51.1 76.7

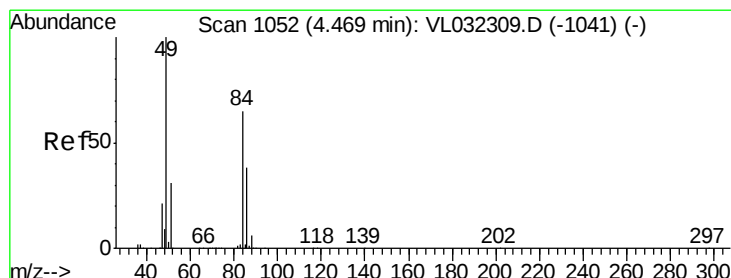
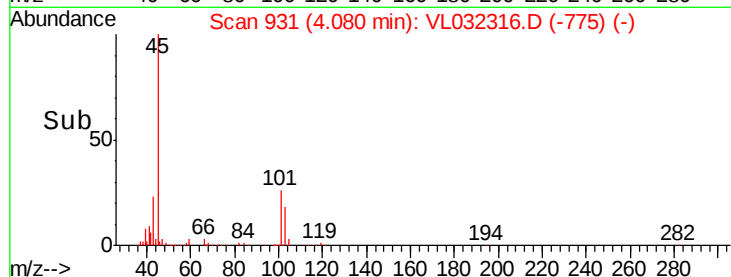
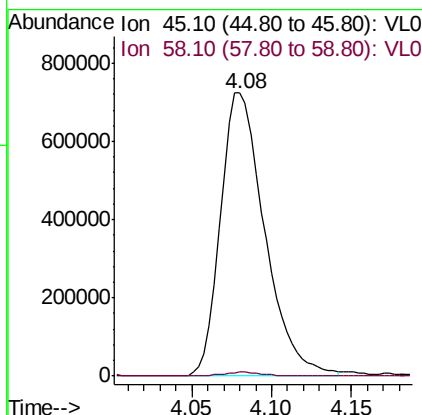
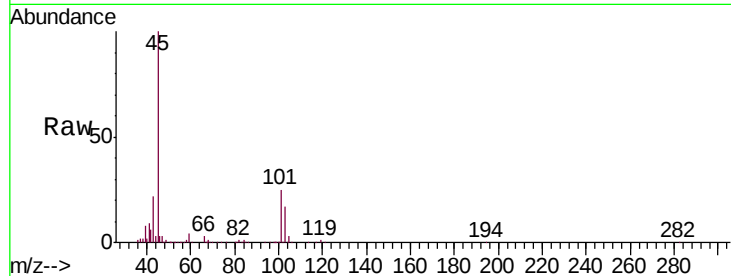




#19  
Isopropyl Alcohol  
Concen: 11.158 ppbv  
RT: 4.08 min Scan# 931  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

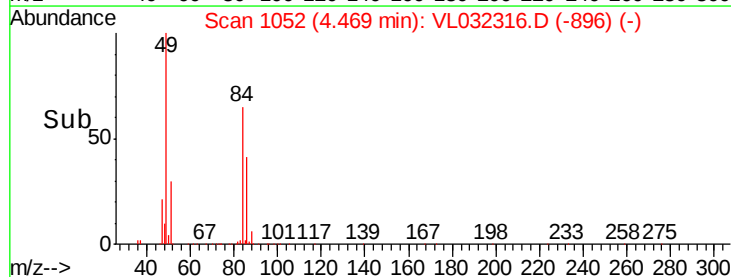
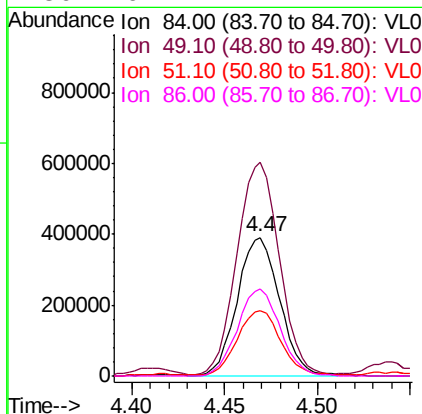
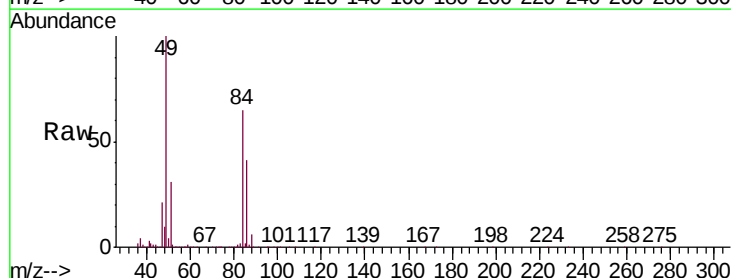
Instrument :  
MSVOA\_L  
ClientSampled :

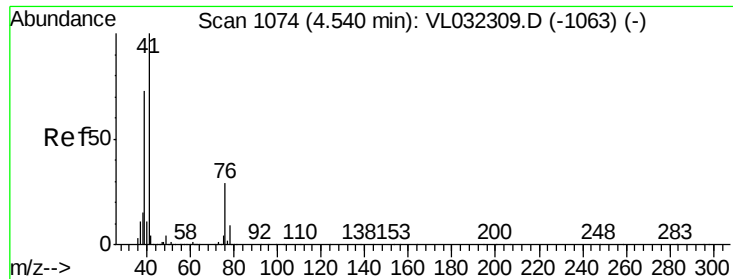
Tot Ion: 45 Resp: 1359609  
Ion Ratio Lower Upper  
45 100  
58 1.5 1.5 2.3#



#20  
Methylene Chloride  
Concen: 8.439 ppbv  
RT: 4.47 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 84 Resp: 619369  
Ion Ratio Lower Upper  
84 100  
49 153.5 123.4 185.0  
51 46.4 38.2 57.2  
86 62.7 47.4 71.2

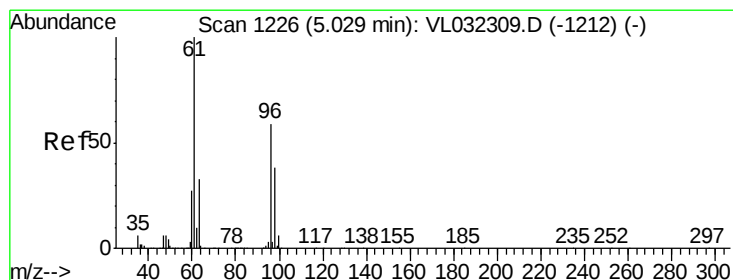
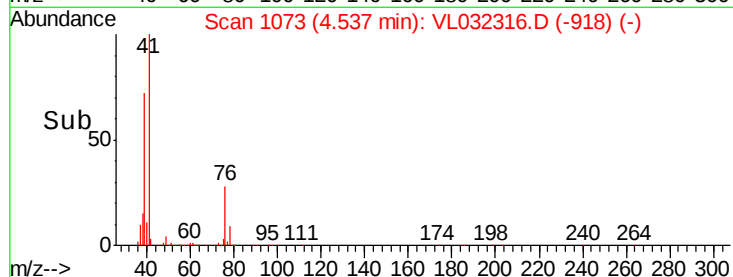
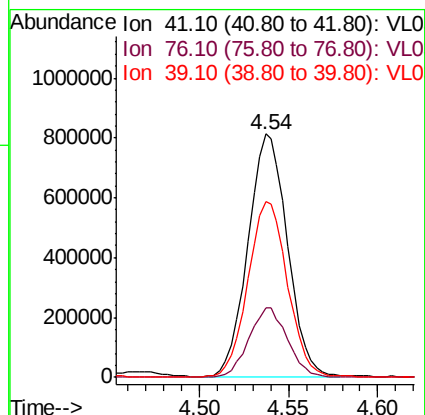
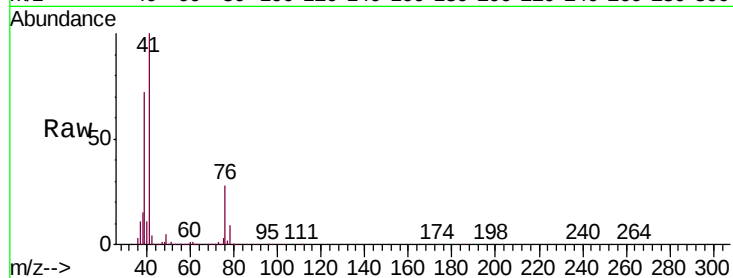




#21  
Allvl Chloride  
Concen: 10.082 ppbv  
RT: 4.54 min Scan# 1073  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

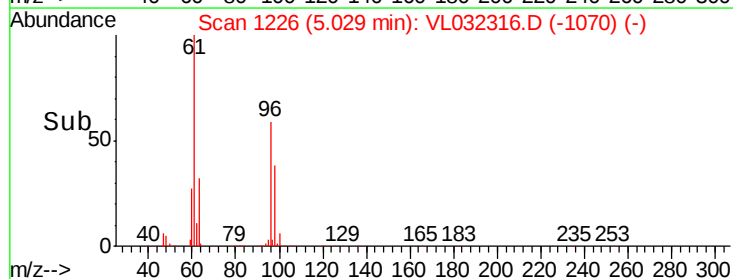
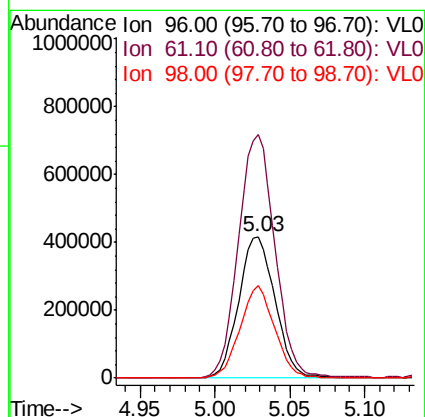
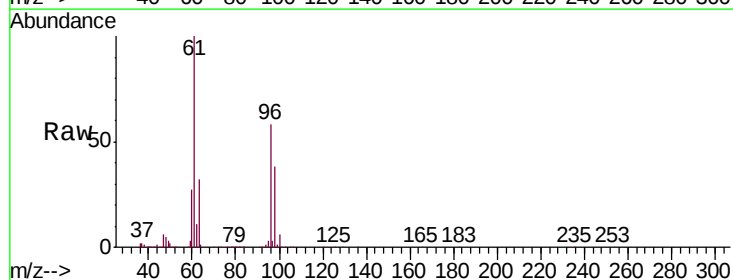
Instrument :  
MSVOA\_L  
ClientSampled :

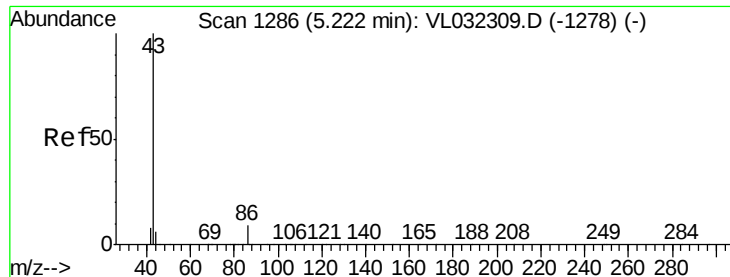
Tot Ion: 41 Resp: 1255942  
Ion Ratio Lower Upper  
41 100  
76 28.0 23.1 34.7  
39 72.6 58.2 87.2



#22  
trans-1,2-Dichloroethene  
Concen: 10.353 ppbv  
RT: 5.03 min Scan# 1226  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 96 Resp: 705882  
Ion Ratio Lower Upper  
96 100  
61 171.7 136.5 204.7  
98 65.3 51.3 76.9





#23

Vinyl Acetate

Concen: 10.256 ppbv

RT: 5.22 min Scan# 1286

Delta R.T. 0.00 min

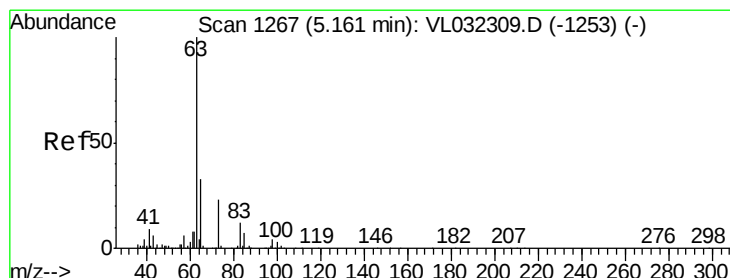
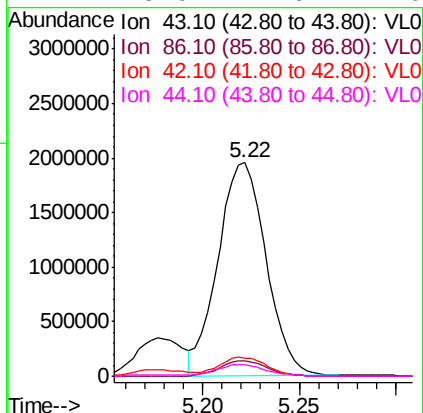
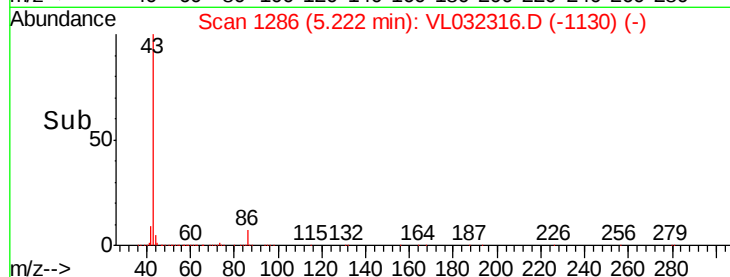
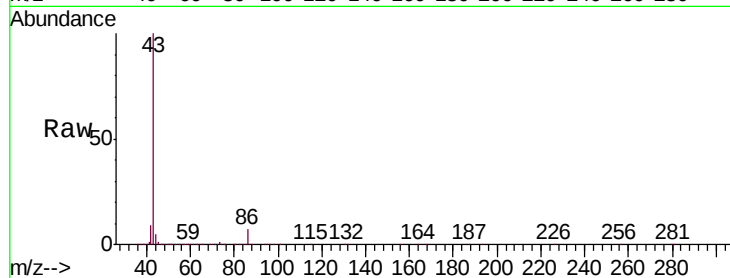
Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 3359624

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.3   | 6.3   | 9.5   |
| 42  | 8.6   | 7.0   | 10.4  |
| 44  | 5.0   | 4.6   | 7.0   |



#24

1,1-Dichloroethane

Concen: 9.351 ppbv

RT: 5.16 min Scan# 1266

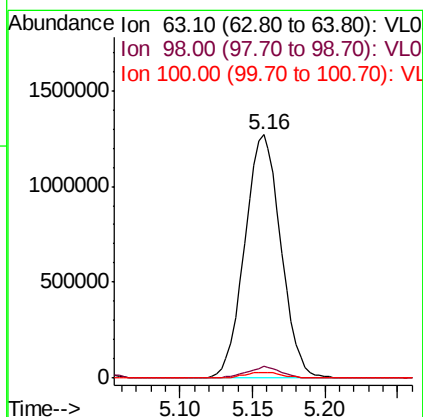
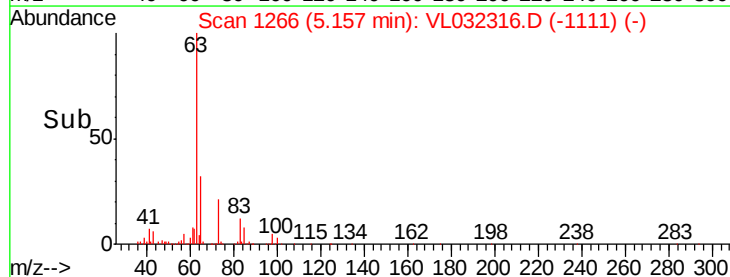
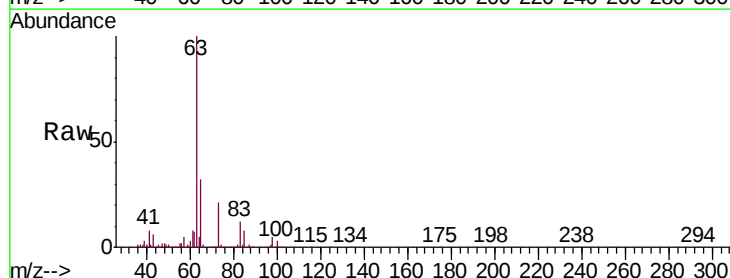
Delta R.T. -0.00 min

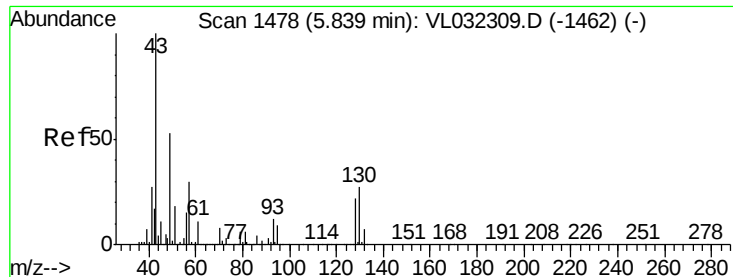
Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion: 63 Resp: 2197310

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.8   | 2.1   | 6.5   |
| 100 | 2.5   | 1.3   | 3.8   |

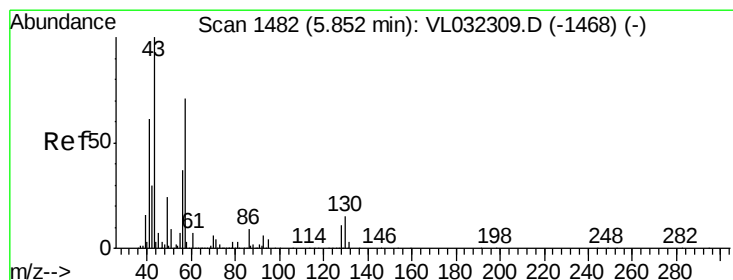
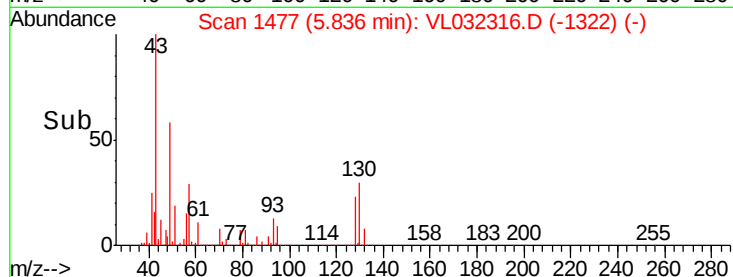
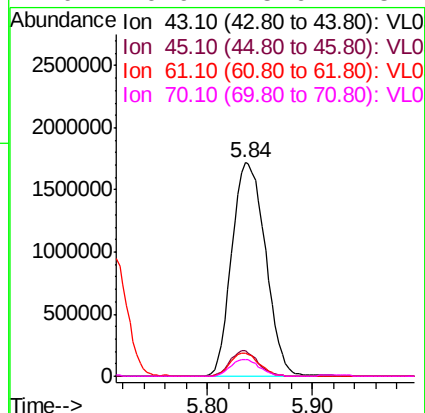
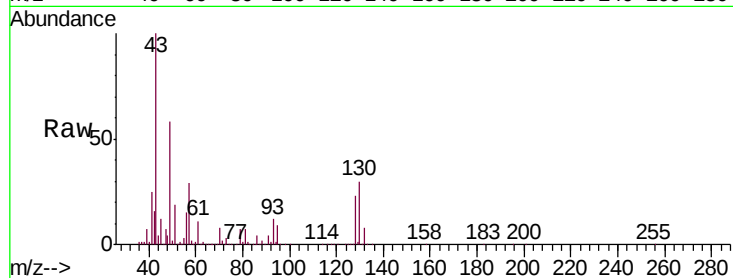




#25  
Ethyl Acetate  
Concen: 9.296 ppbv  
RT: 5.84 min Scan# 1477  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

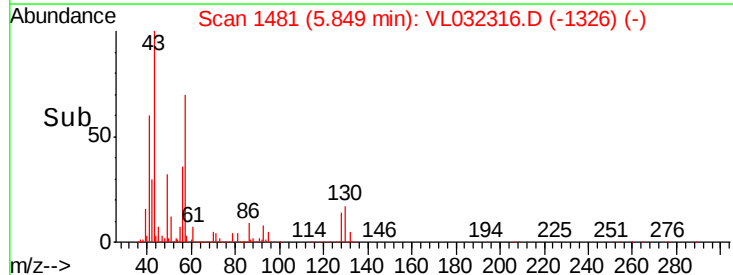
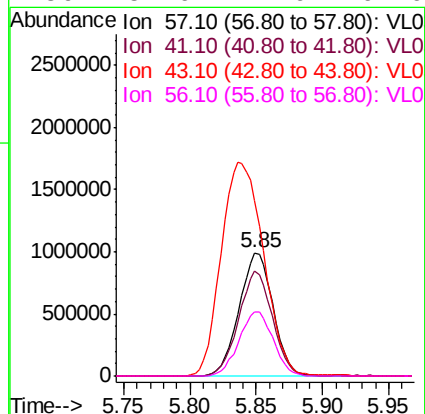
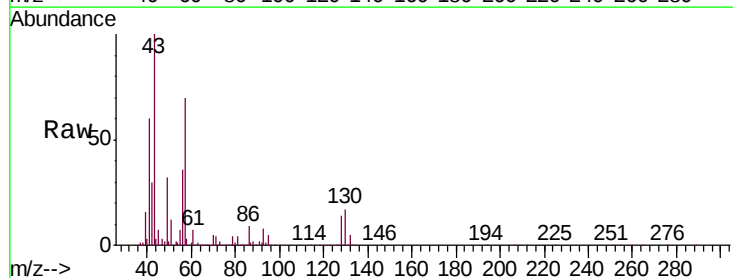
Instrument :  
MSVOA\_L  
ClientSampleId :

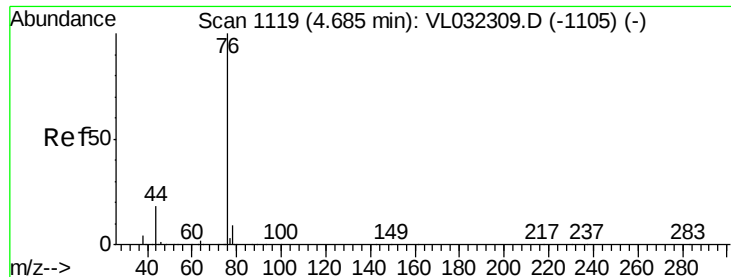
Tot Ion: 43 Resp: 3809504  
Ion Ratio Lower Upper  
43 100  
45 10.0 8.1 12.1  
61 9.3 7.4 11.0  
70 6.9 5.6 8.4



#26  
Hexane  
Concen: 9.462 ppbv  
RT: 5.85 min Scan# 1481  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 57 Resp: 1754474  
Ion Ratio Lower Upper  
57 100  
41 85.2 68.1 102.1  
43 217.7 177.4 266.2  
56 52.6 41.9 62.9





#27

Carbon Disulfide

Concen: 10.401 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

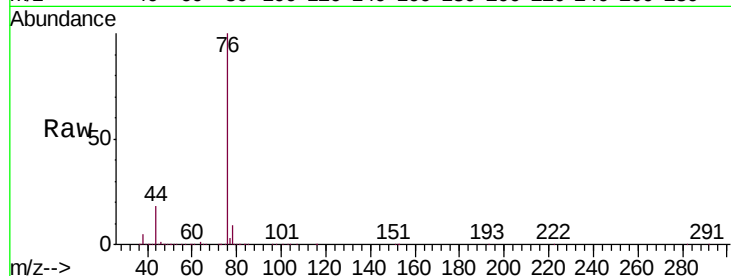
Tot Ion: 76 Resp: 1753394

Ion Ratio Lower Upper

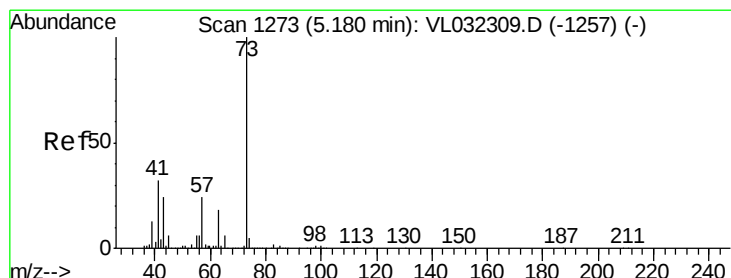
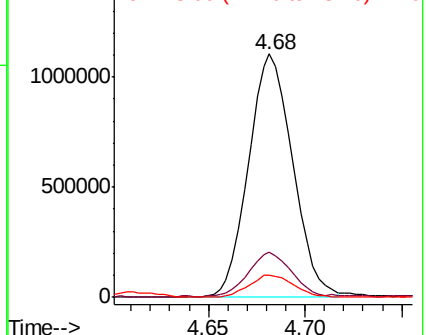
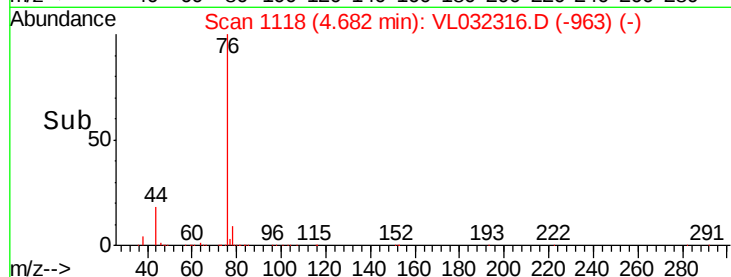
76 100

44 18.6 14.0 21.0

78 9.6 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0  
1500000  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.492 ppbv

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VL032316.D

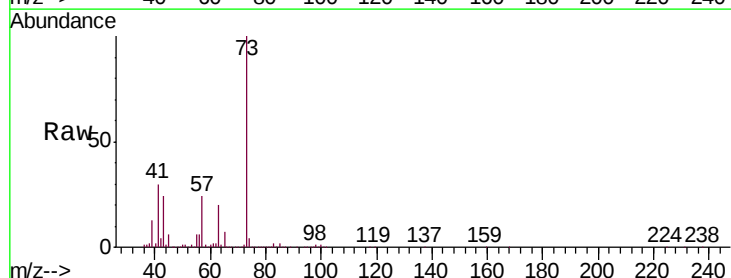
Acq: 27 Jul 2018 11:18

Tgt Ion: 73 Resp: 2631266

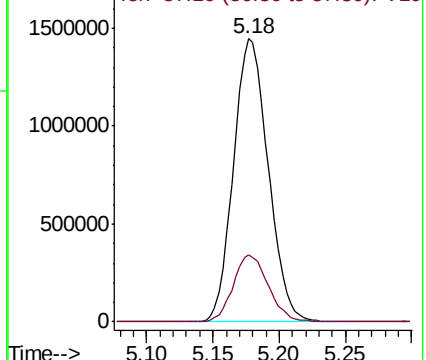
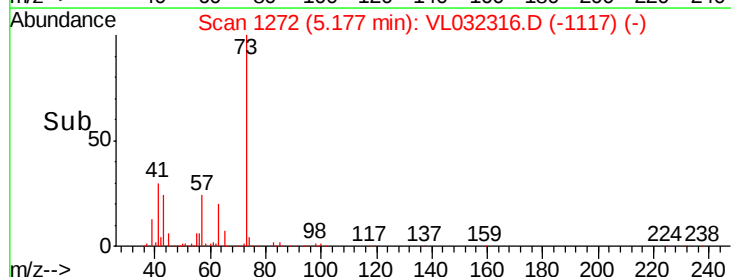
Ion Ratio Lower Upper

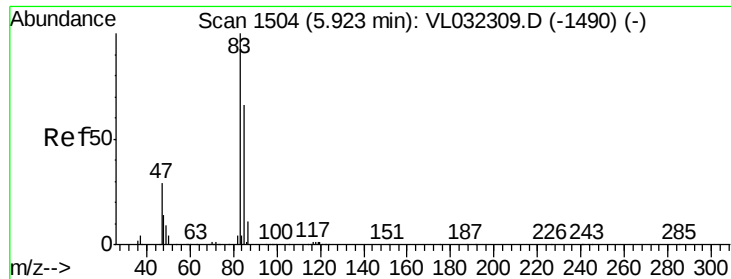
73 100

57 24.0 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VL0  
1500000  
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.218 ppbv

RT: 5.92 min Scan# 1503

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

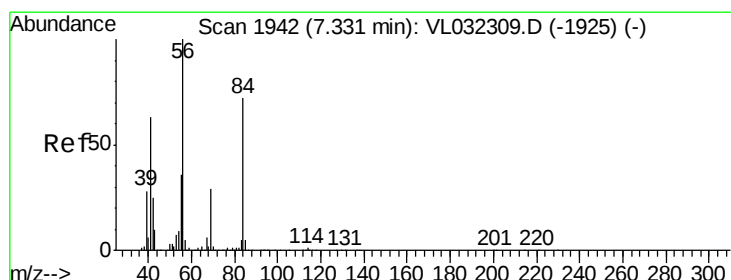
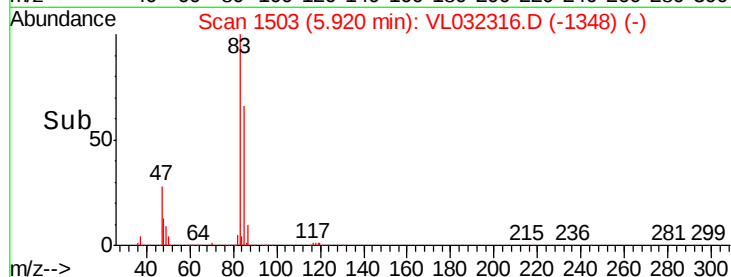
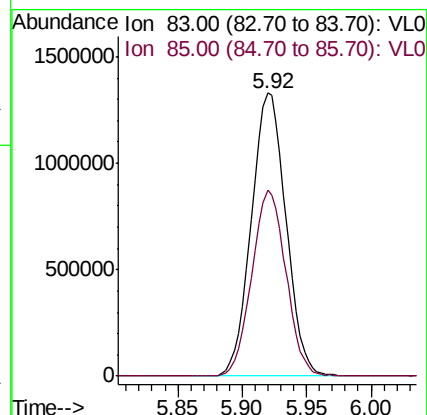
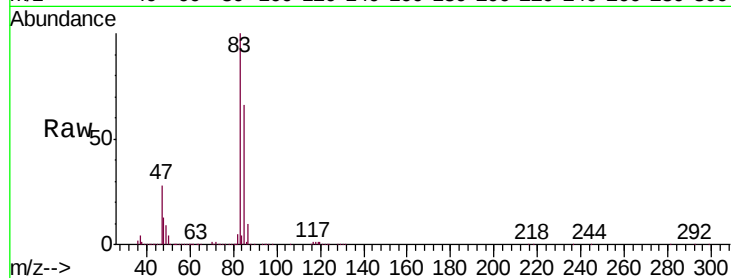
ClientSampleId :

Tot Ion: 83 Resp: 2486340

Ion Ratio Lower Upper

83 100

85 65.5 52.9 79.3



#30

Cyclohexane

Concen: 10.442 ppbv

RT: 7.32 min Scan# 1940

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

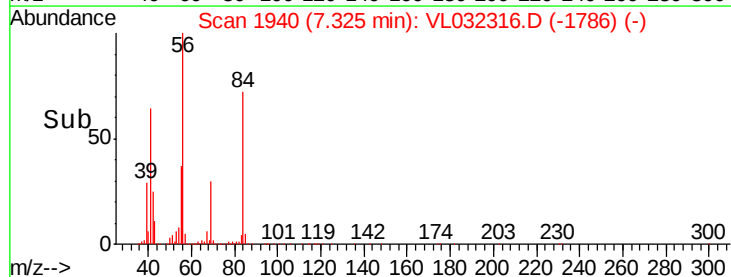
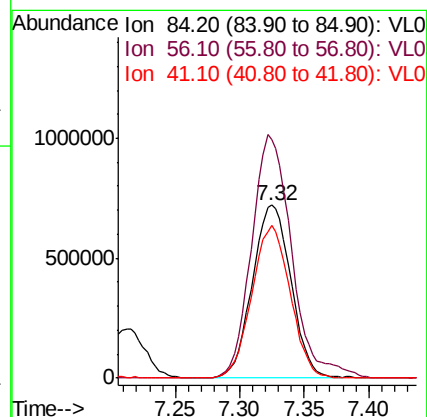
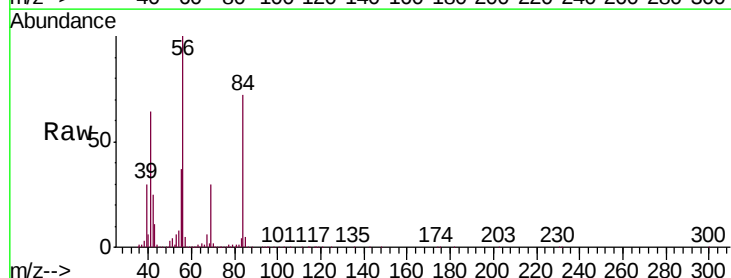
Tgt Ion: 84 Resp: 1510688

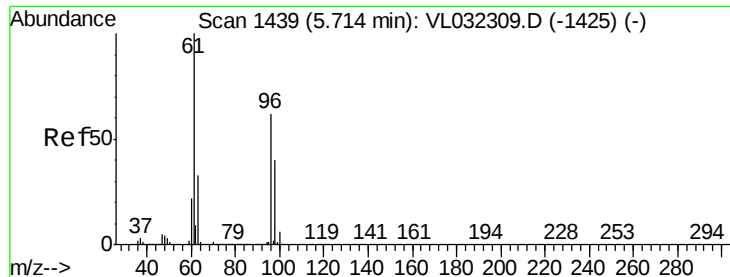
Ion Ratio Lower Upper

84 100

56 146.4 116.8 175.2

41 87.1 70.0 105.0



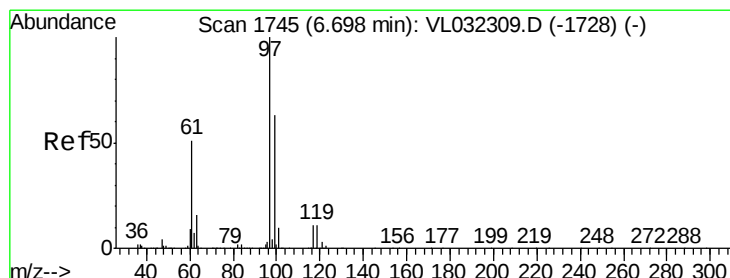
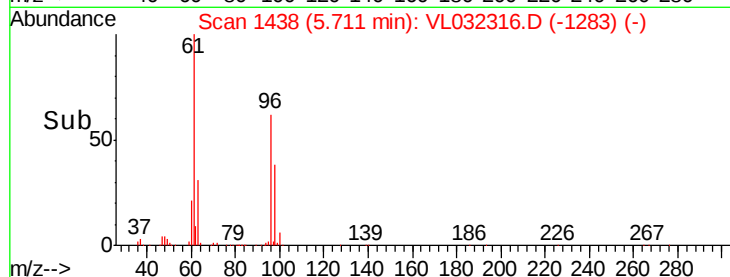
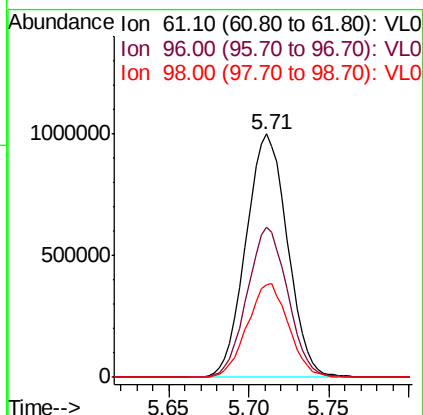
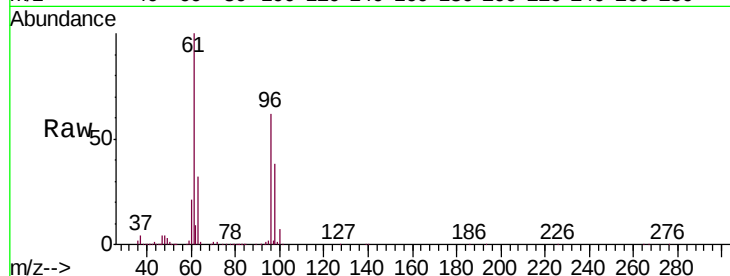


#31  
 cis-1,2-Dichloroethene  
 Concen: 10.378 ppbv  
 RT: 5.71 min Scan# 1438  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion: 61 Resp: 1784123  

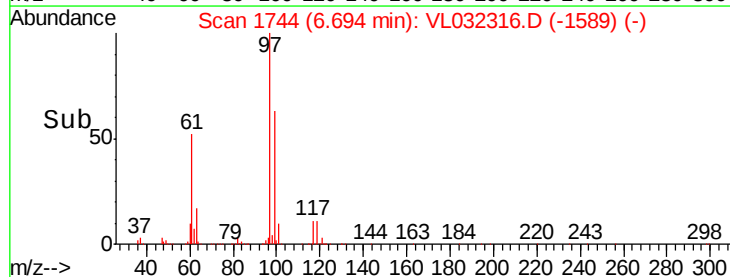
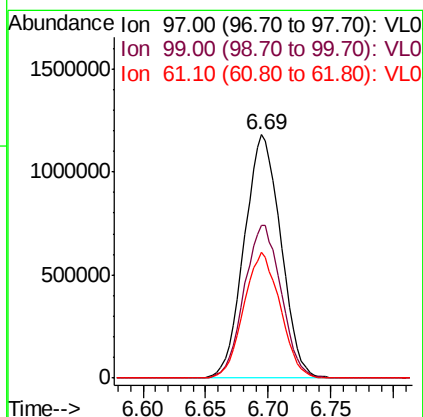
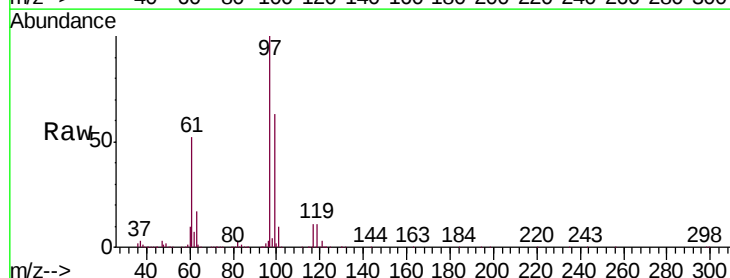
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 61.5  | 49.8  | 74.6  |
| 98  | 38.2  | 31.8  | 47.6  |

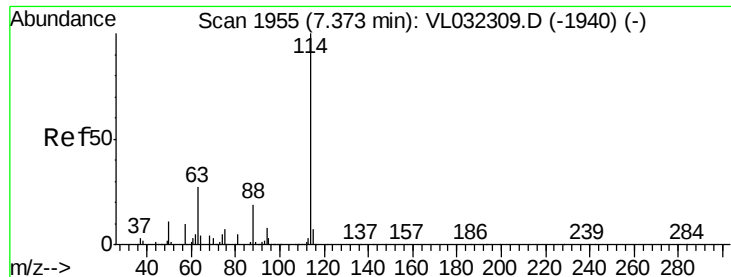


#32  
 1,1,1-Trichloroethane  
 Concen: 10.028 ppbv  
 RT: 6.69 min Scan# 1744  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 97 Resp: 2393584  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.7  | 50.9  | 76.3  |
| 61  | 51.6  | 41.8  | 62.6  |



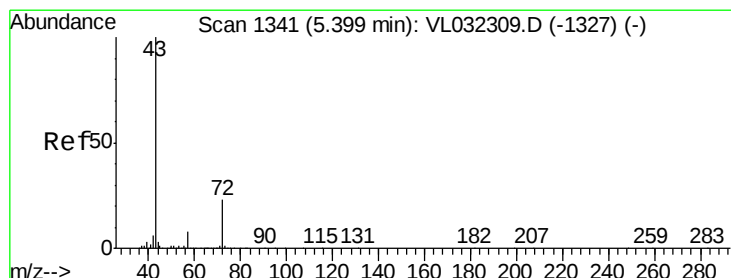
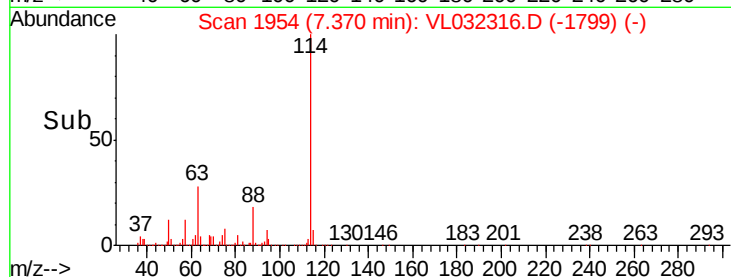
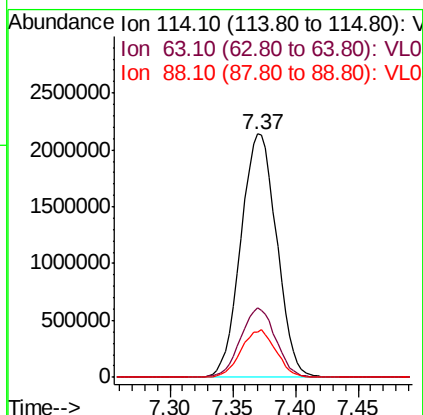
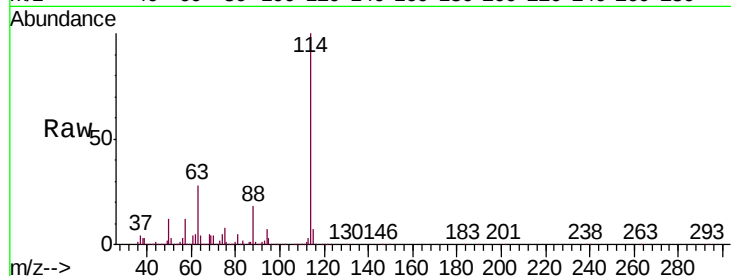


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.37 min Scan# 1954  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 4255887  

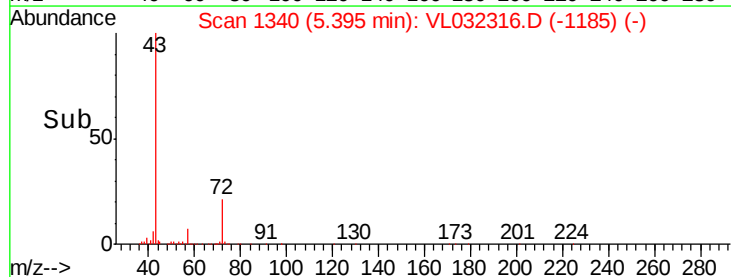
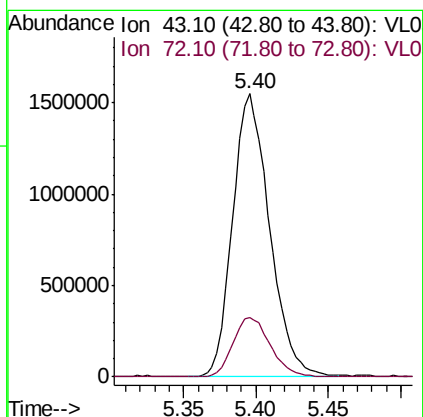
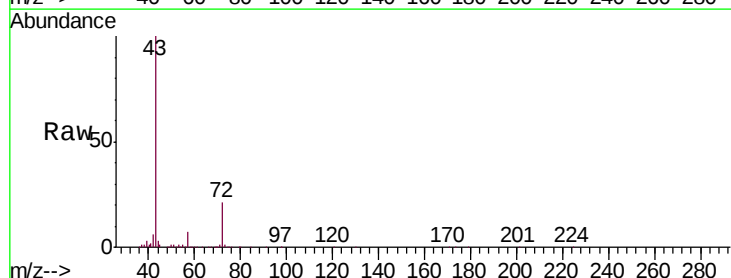
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 28.3  | 22.4  | 33.6  |
| 88  | 19.0  | 15.3  | 22.9  |

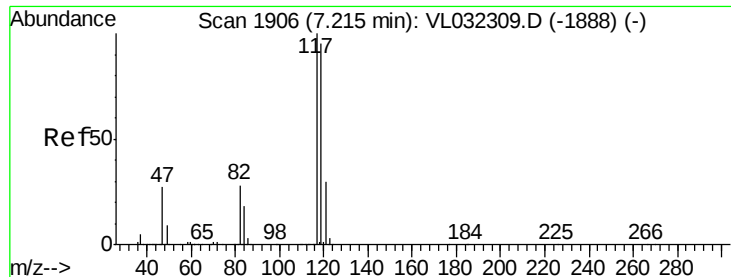


#34  
 2-Butanone  
 Concen: 9.899 ppbv  
 RT: 5.40 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 43 Resp: 2726728  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 21.5  | 17.4  | 26.2  |





#35

Carbon Tetrachloride

Concen: 10.131 ppbv

RT: 7.21 min Scan# 1905

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

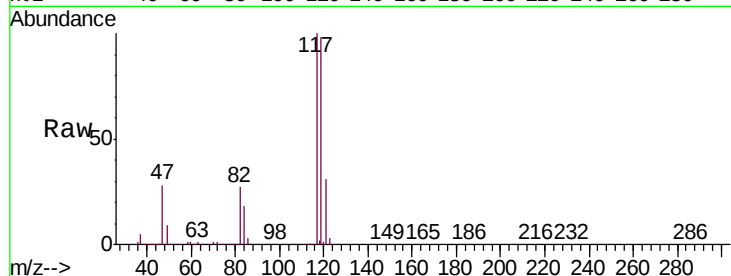
Tot Ion:117 Resp: 2449100

Ion Ratio Lower Upper

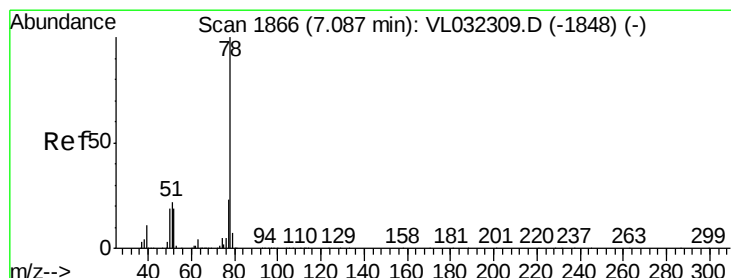
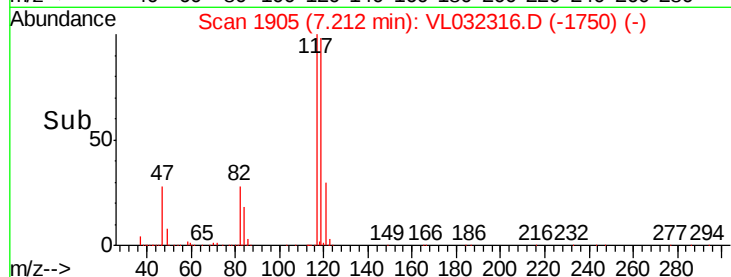
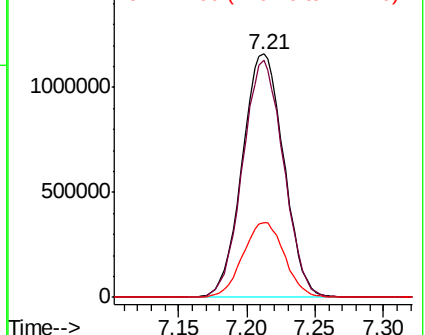
117 100

119 97.6 76.1 114.1

121 30.5 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: 9.982 ppbv

RT: 7.08 min Scan# 1865

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

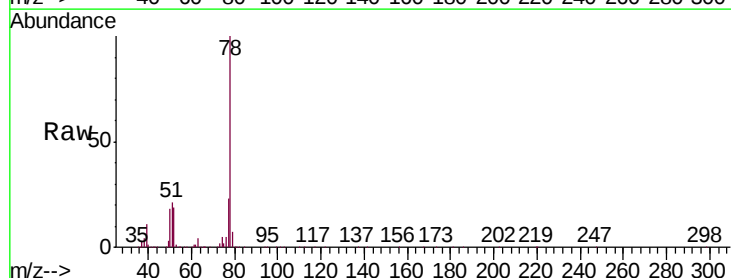
Tgt Ion: 78 Resp: 3744593

Ion Ratio Lower Upper

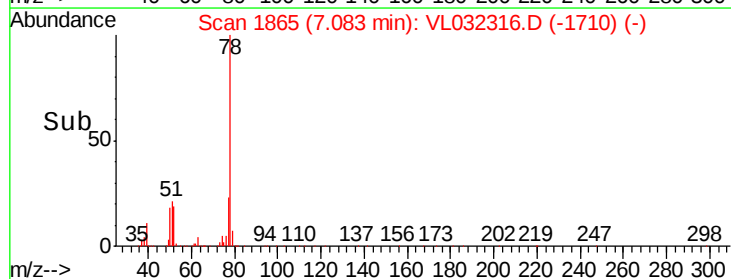
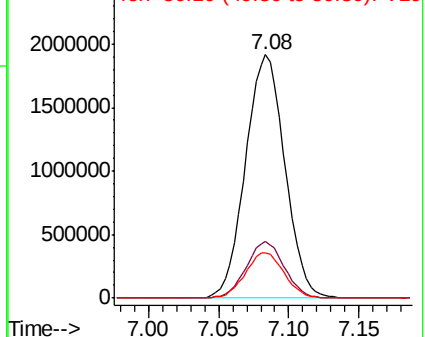
78 100

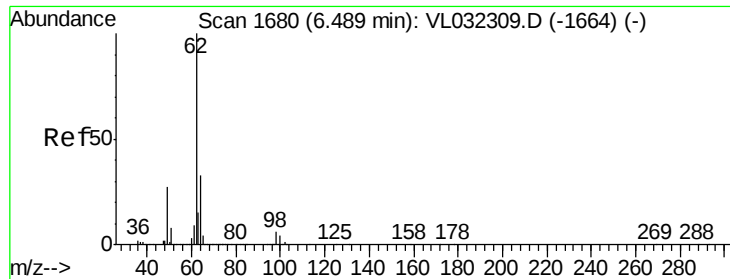
77 23.1 18.4 27.6

50 18.4 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: 8.803 ppbv

RT: 6.49 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

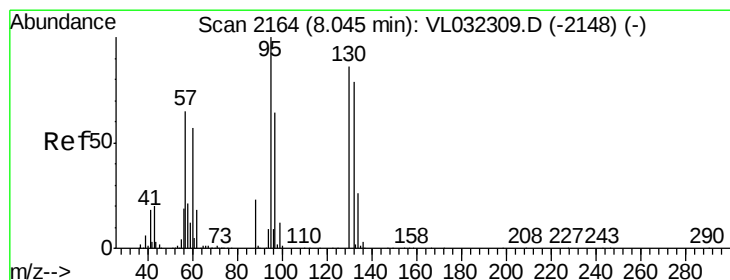
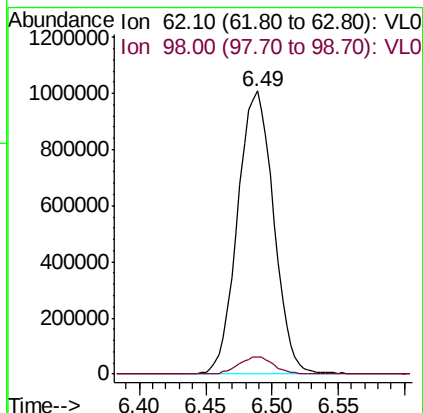
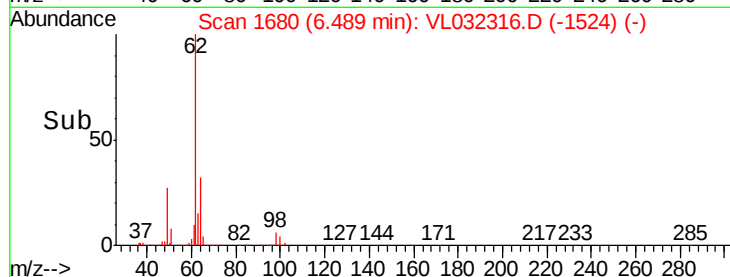
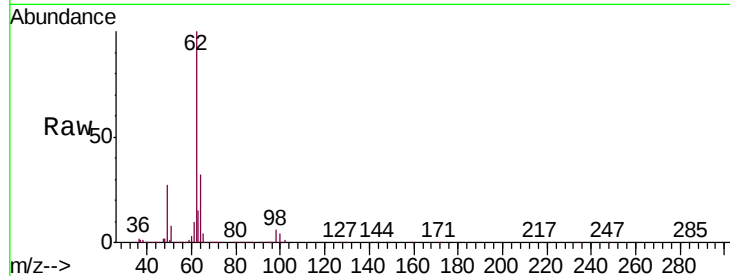
ClientSampleId :

Tot Ion: 62 Resp: 1908214

Ion Ratio Lower Upper

62 100

98 6.1 5.1 7.7



#38

Trichloroethene

Concen: 10.101 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:130 Resp: 1464478

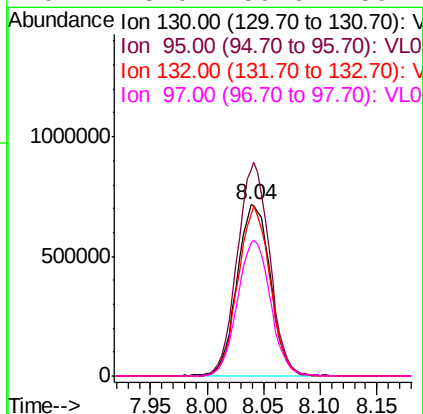
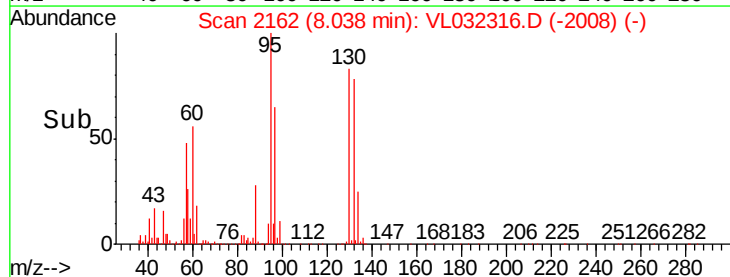
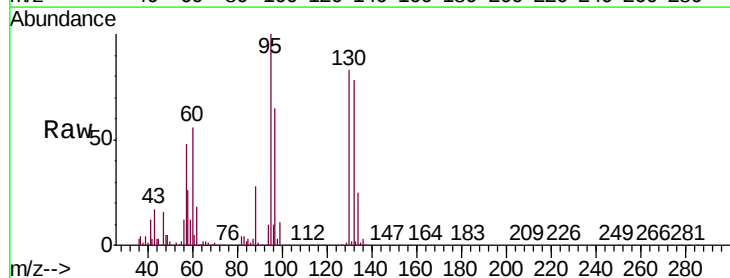
Ion Ratio Lower Upper

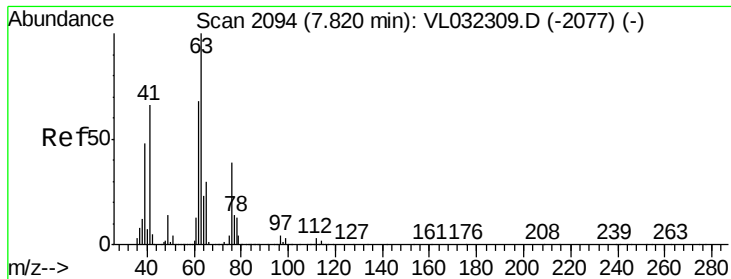
130 100

95 120.3 92.9 139.3

132 94.1 73.0 109.4

97 78.0 59.6 89.4

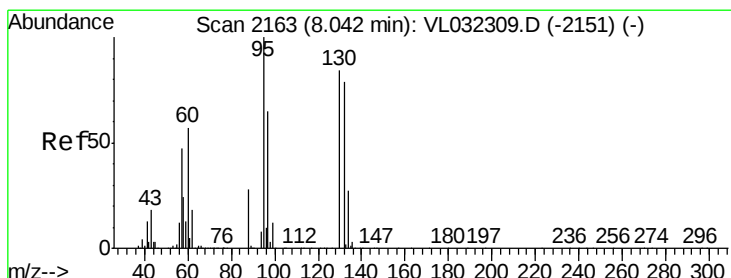
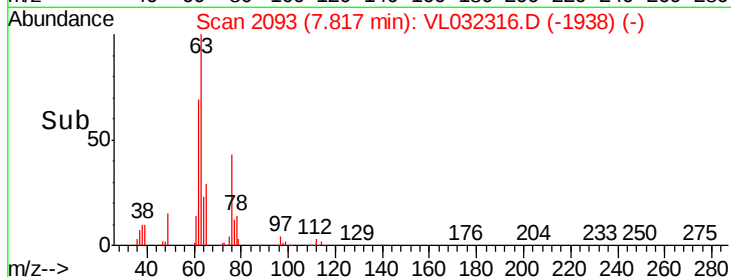
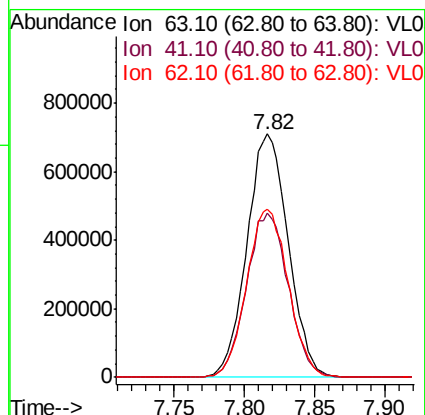
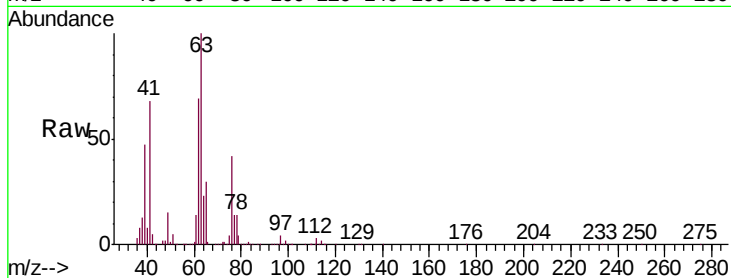




#39  
 1,2-Dichloropropane  
 Concen: 7.707 ppbv  
 RT: 7.82 min Scan# 2093  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

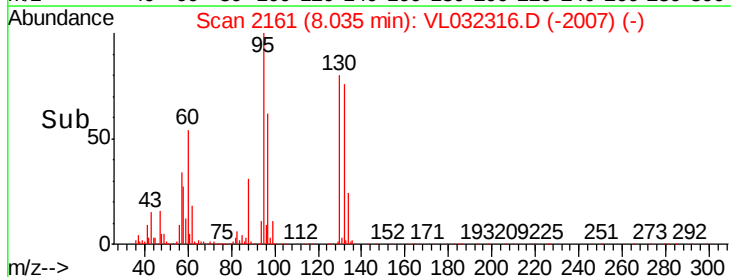
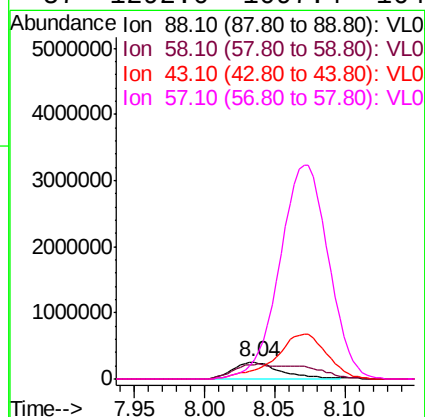
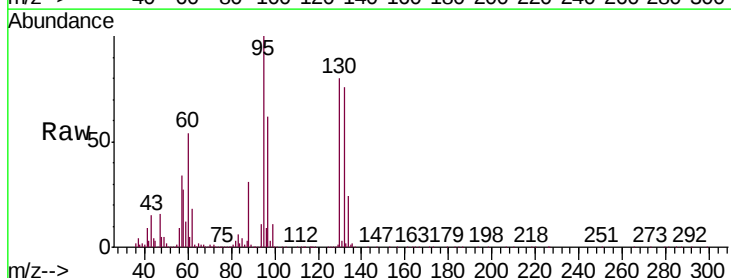
Instrument :  
 MSVOA\_L  
 ClientSampleId :

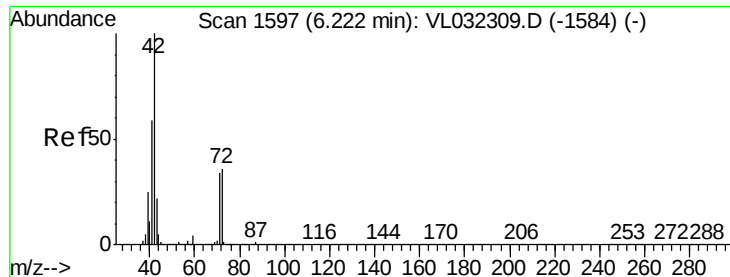
Tot Ion: 63 Resp: 1454592  
 Ion Ratio Lower Upper  
 63 100  
 41 67.6 52.5 78.7  
 62 69.1 54.6 81.8



#40  
 1,4-Dioxane  
 Concen: 10.915 ppbv  
 RT: 8.04 min Scan# 2161  
 Delta R.T. -0.01 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 88 Resp: 604975  
 Ion Ratio Lower Upper  
 88 100  
 58 144.9 120.5 180.7  
 43 289.3 246.2 369.2  
 57 1292.0 1097.4 1646.2





#41

Tetrahydrofuran

Concen: 10.832 ppbv

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

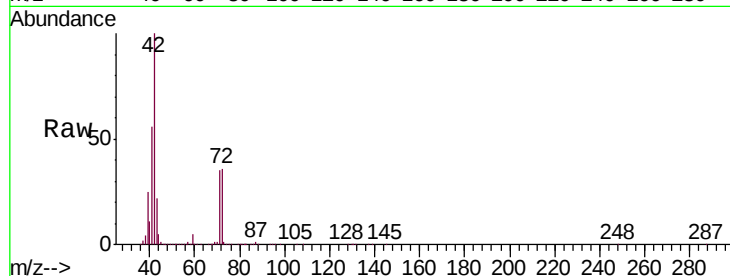
Tot Ion: 42 Resp: 1687817

Ion Ratio Lower Upper

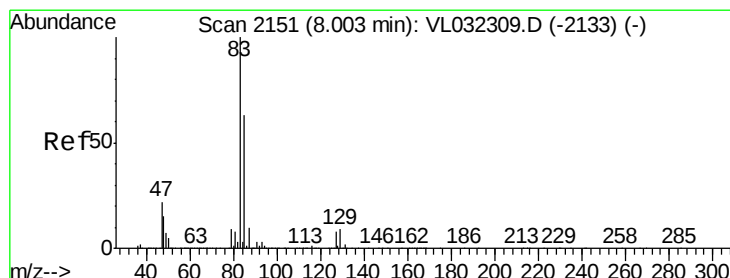
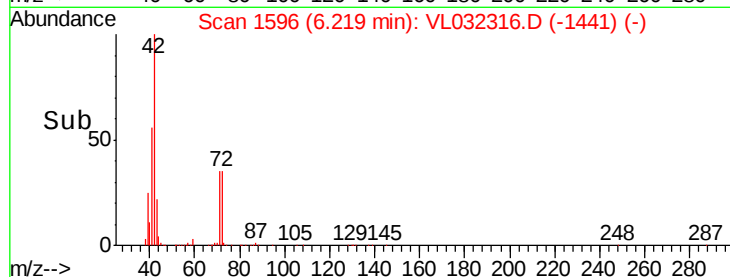
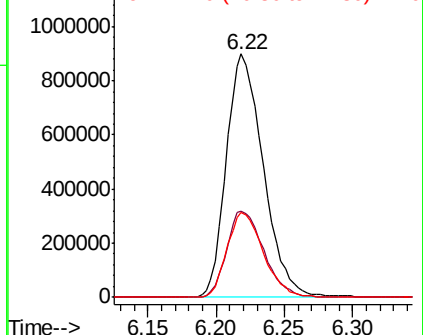
42 100

72 35.8 28.6 42.8

71 34.8 27.8 41.6



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



#42

Bromodichloromethane

Concen: 9.730 ppbv

RT: 8.00 min Scan# 2150

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

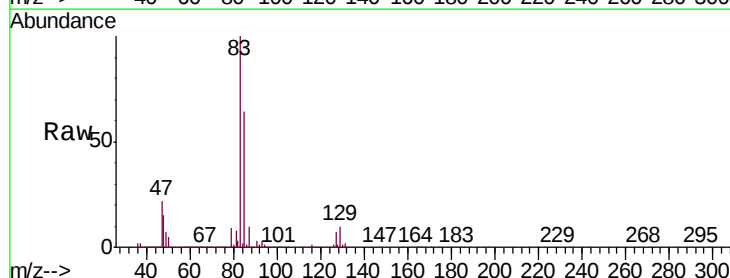
Tgt Ion: 83 Resp: 3414558

Ion Ratio Lower Upper

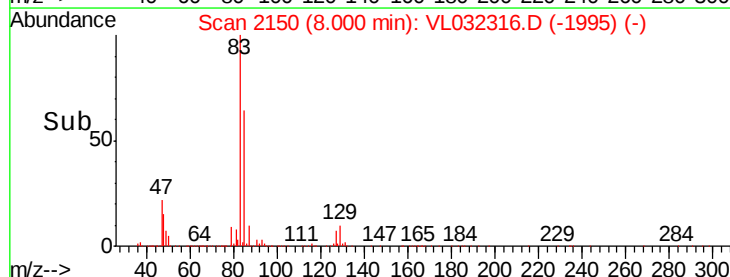
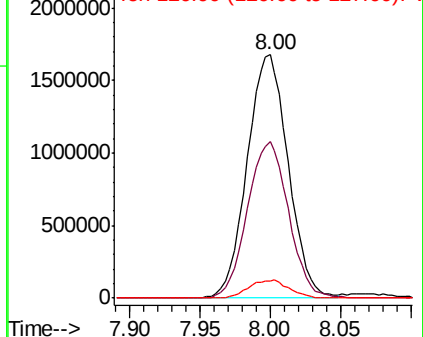
83 100

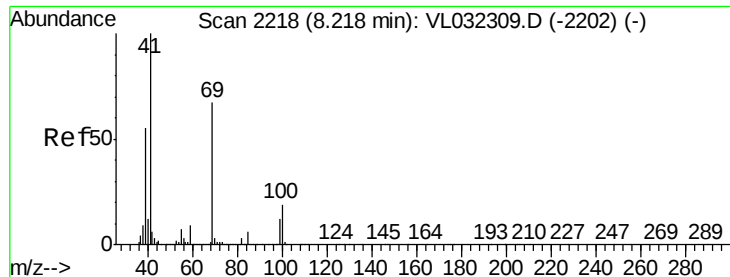
85 64.2 50.7 76.1

127 7.1 6.0 9.0



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

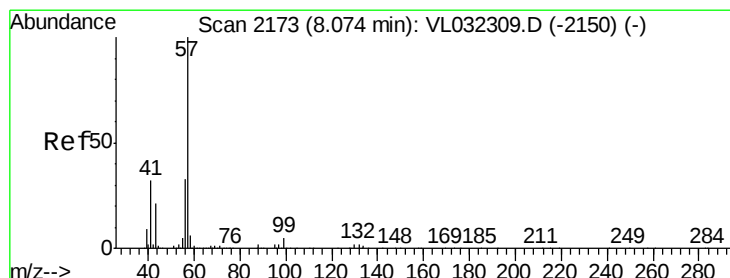
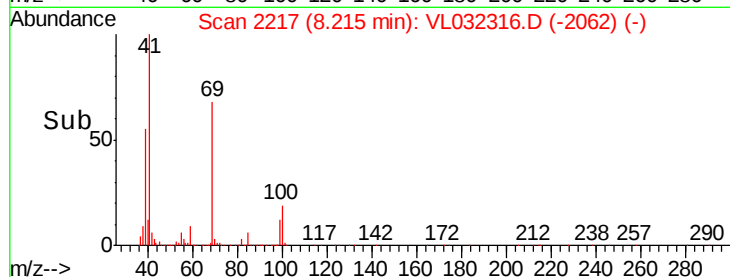
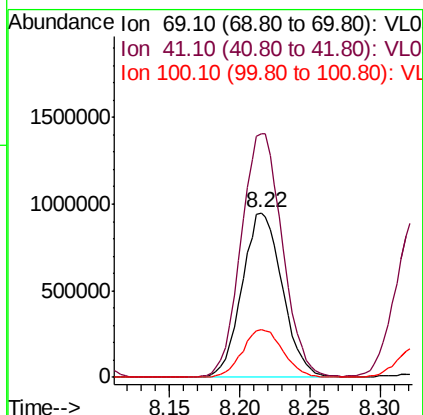
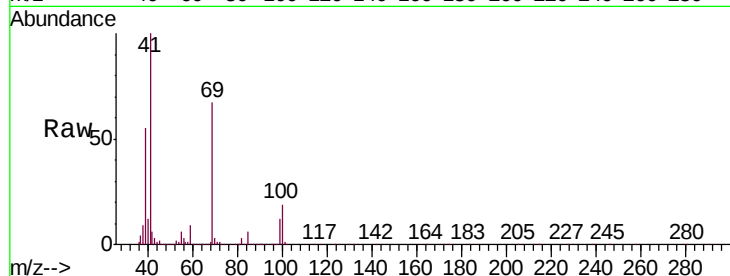




#43  
Methvl Methacrvlate  
Concen: 10.543 ppbv  
RT: 8.22 min Scan# 2217  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

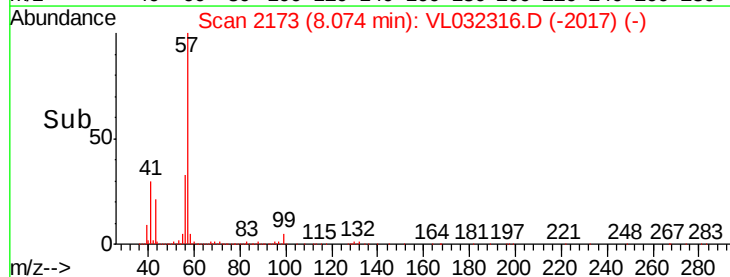
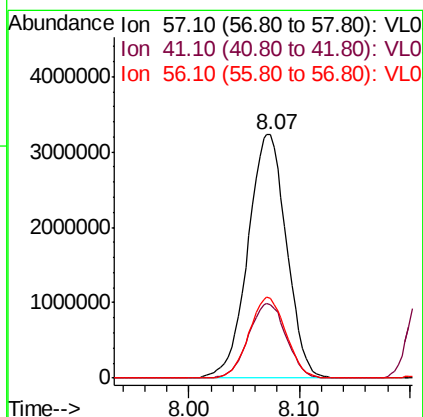
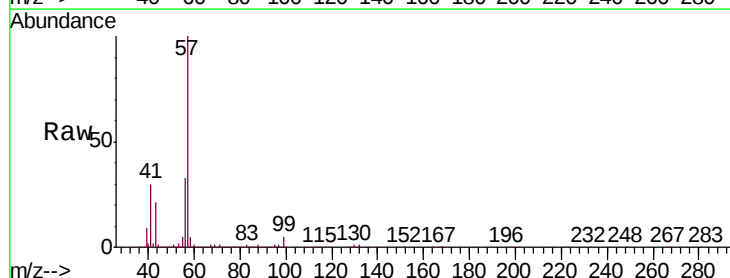
Instrument :  
MSVOA\_L  
ClientSampleId :

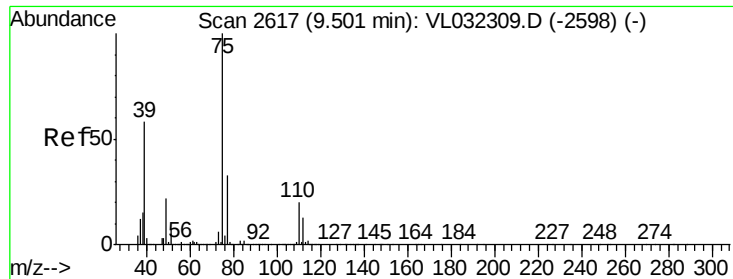
Tot Ion: 69 Resp: 1898478  
Ion Ratio Lower Upper  
69 100  
41 151.6 120.6 180.8  
100 29.2 23.2 34.8



#44  
2,2,4-Trimethylpentane  
Concen: 9.582 ppbv  
RT: 8.07 min Scan# 2173  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 57 Resp: 7795128  
Ion Ratio Lower Upper  
57 100  
41 30.2 24.3 36.5  
56 31.9 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 11.213 ppbv

RT: 9.50 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

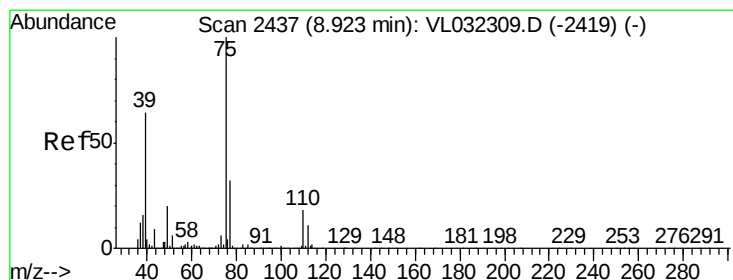
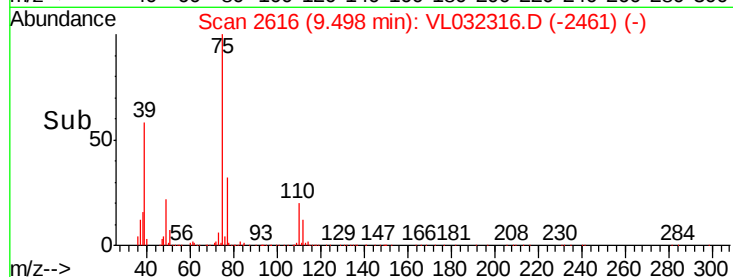
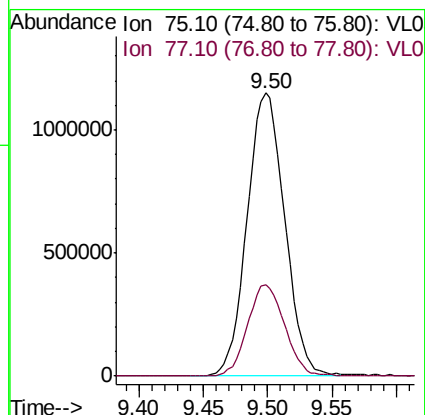
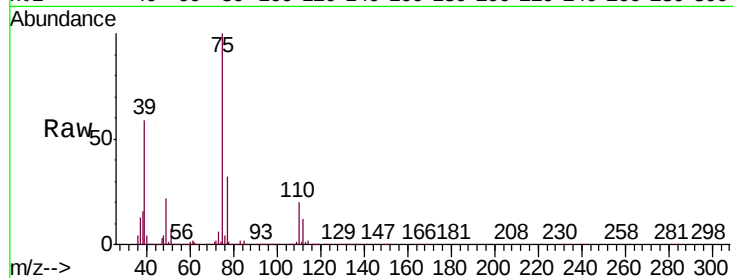
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 75 Resp: 2339820

Ion Ratio Lower Upper

75 100

77 32.5 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 10.843 ppbv

RT: 8.92 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

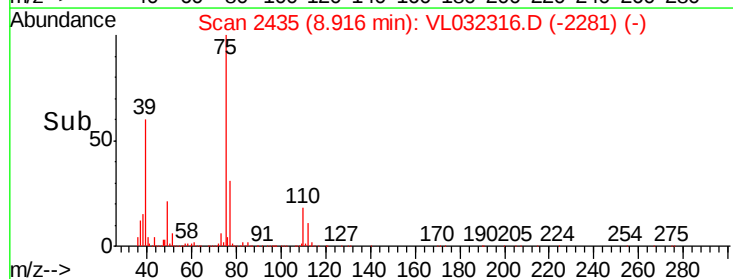
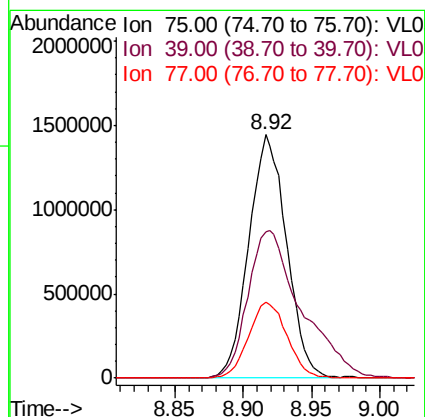
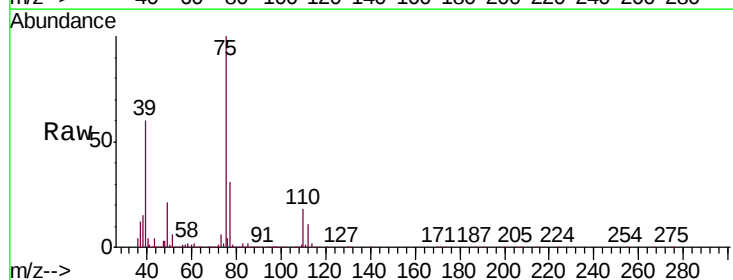
Tgt Ion: 75 Resp: 2772299

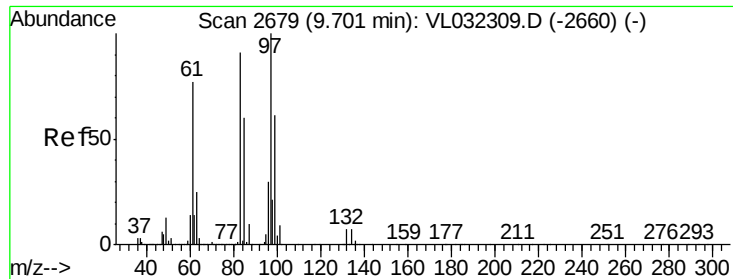
Ion Ratio Lower Upper

75 100

39 59.9 50.9 76.3

77 31.0 25.7 38.5

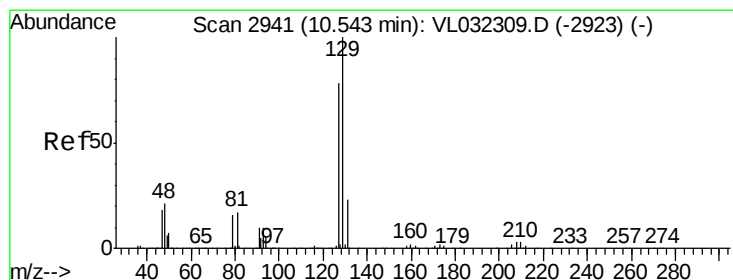
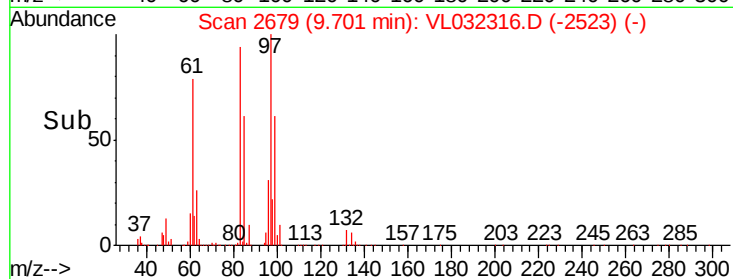
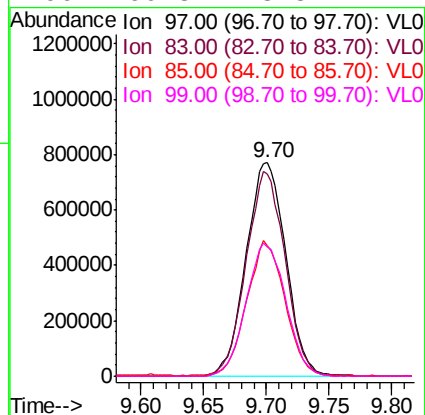
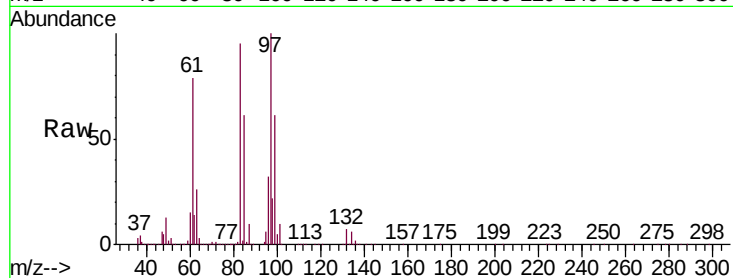




#47  
 1,1,2-Trichloroethane  
 Concen: 9.252 ppbv  
 RT: 9.70 min Scan# 2679  
 Delta R.T. 0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

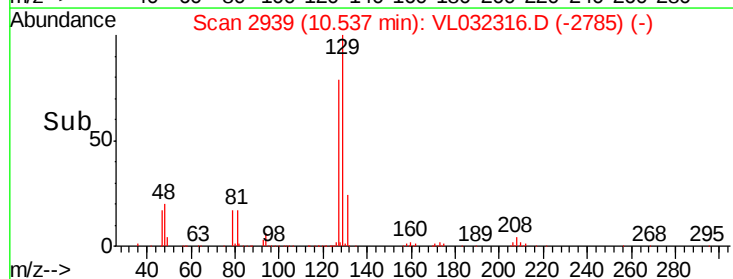
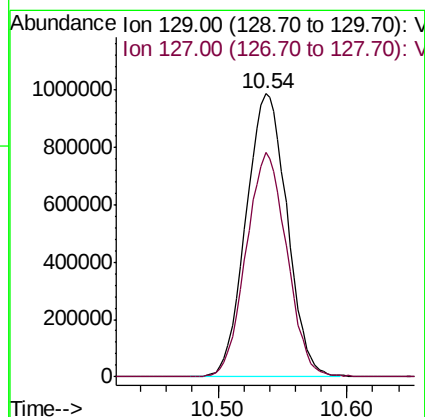
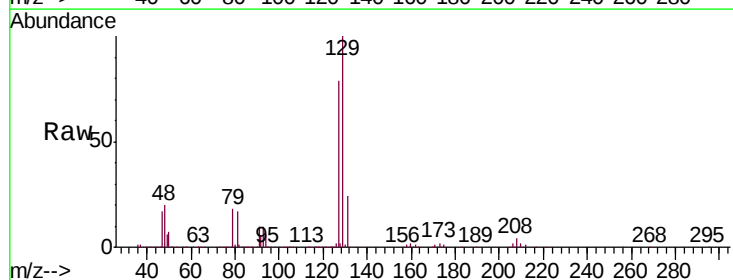
Instrument :  
 MSVOA\_L  
 ClientSampled :

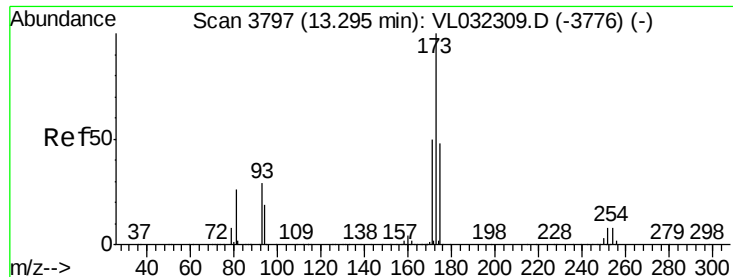
Tot Ion: 97 Resp: 1697483  
 Ion Ratio Lower Upper  
 97 100  
 83 94.6 73.0 109.6  
 85 60.8 48.1 72.1  
 99 60.8 48.5 72.7



#48  
 Dibromochloromethane  
 Concen: 8.097 ppbv  
 RT: 10.54 min Scan# 2939  
 Delta R.T. -0.01 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 129 Resp: 2189761  
 Ion Ratio Lower Upper  
 129 100  
 127 78.5 39.5 118.3





#49

Bromoform

Concen: 9.669 ppbv

RT: 13.29 min Scan# 3795

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

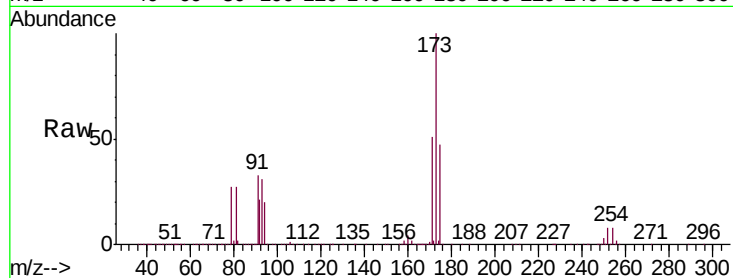
Tot Ion:173 Resp: 2153133

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

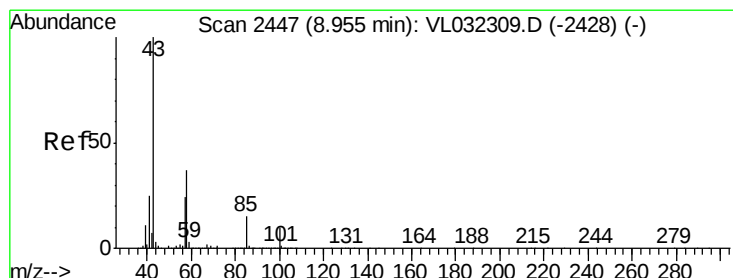
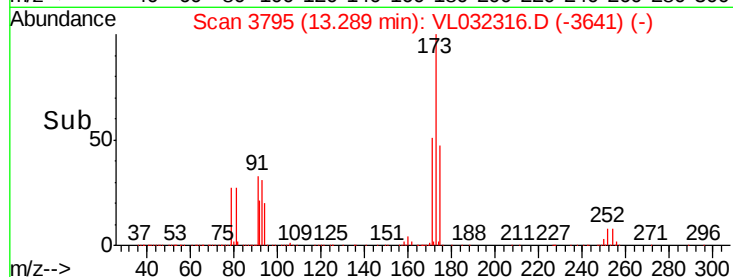
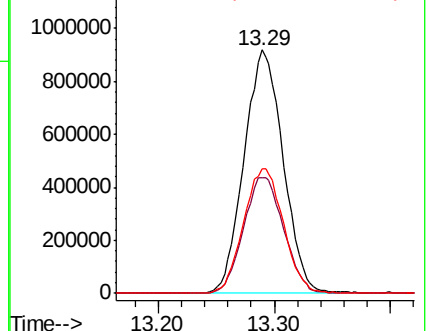
171 52.3 42.2 63.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.035 ppbv

RT: 8.95 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL032316.D

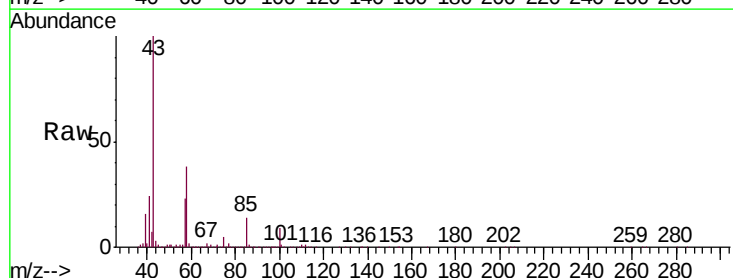
Acq: 27 Jul 2018 11:18

Tgt Ion: 43 Resp: 4877529

Ion Ratio Lower Upper

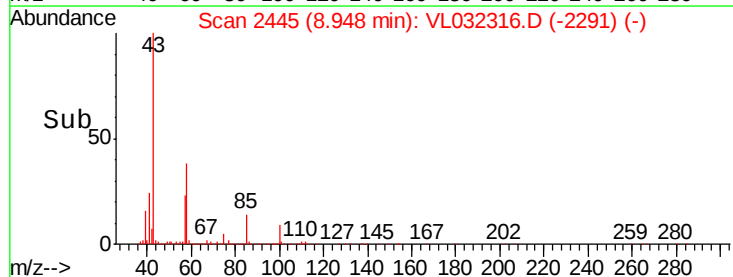
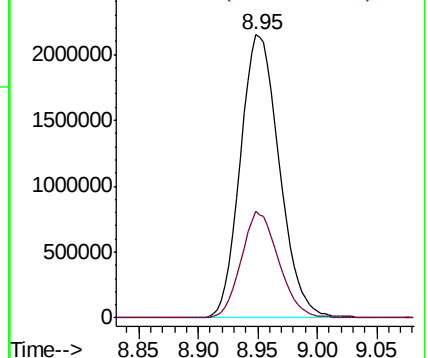
43 100

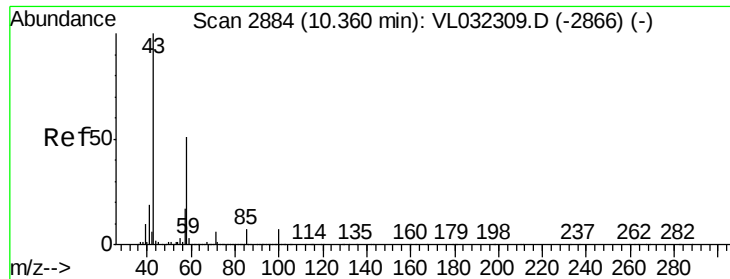
58 36.3 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

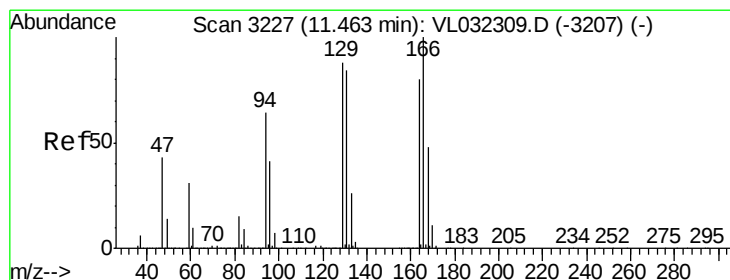
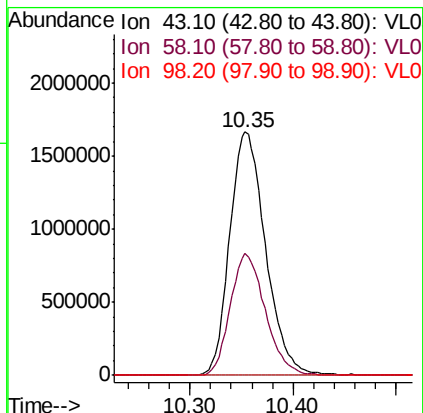
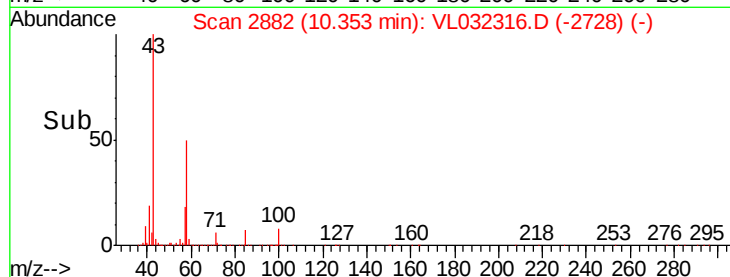
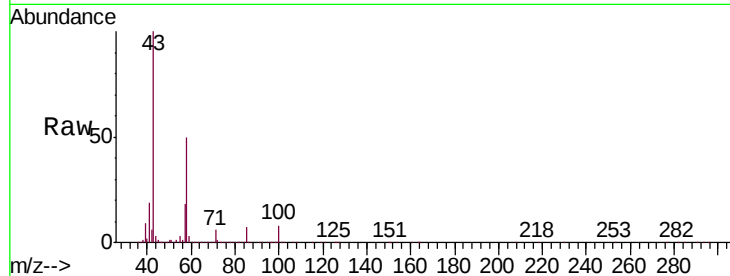




#51  
2-Hexanone  
Concen: 10.865 ppbv  
RT: 10.35 min Scan# 2882  
Delta R.T. -0.01 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

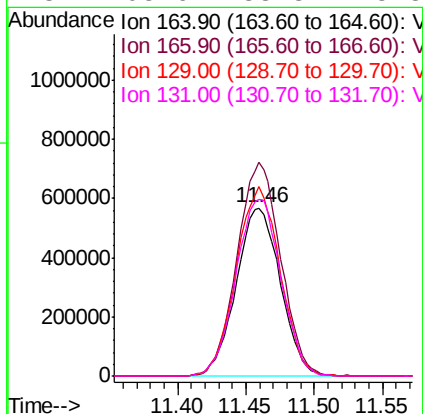
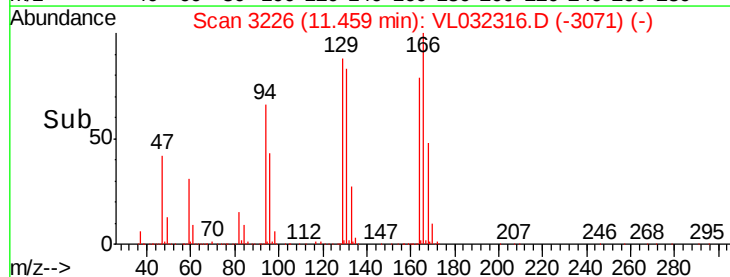
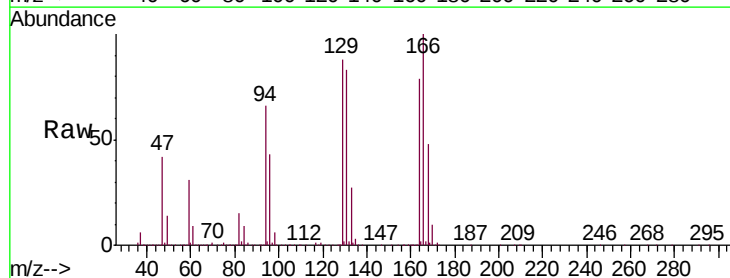
Instrument :  
MSVOA\_L  
ClientSampled :

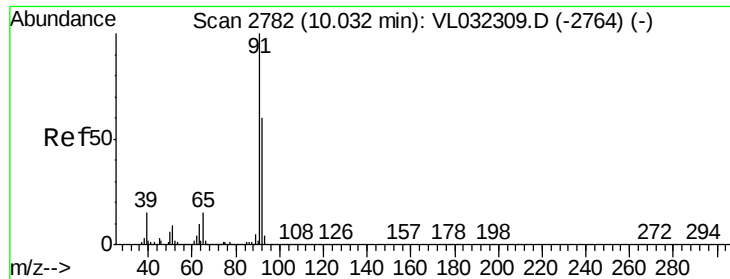
Tot Ion: 43 Resp: 4024175  
Ion Ratio Lower Upper  
43 100  
58 49.2 39.1 58.7  
98 0.2 0.3 0.5#



#52  
Tetrachloroethene  
Concen: 10.045 ppbv  
RT: 11.46 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion:164 Resp: 1269796  
Ion Ratio Lower Upper  
164 100  
166 127.2 100.0 150.0  
129 112.6 87.9 131.9  
131 105.6 83.8 125.8





#53

Toluene

Concen: 10.847 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

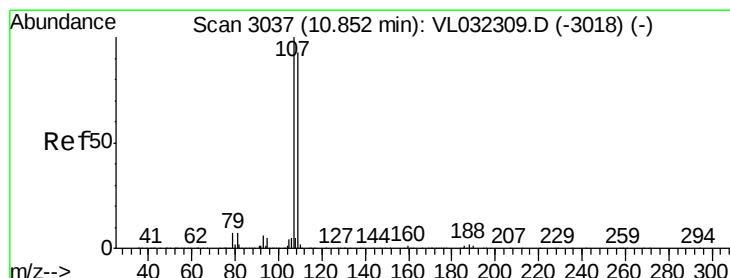
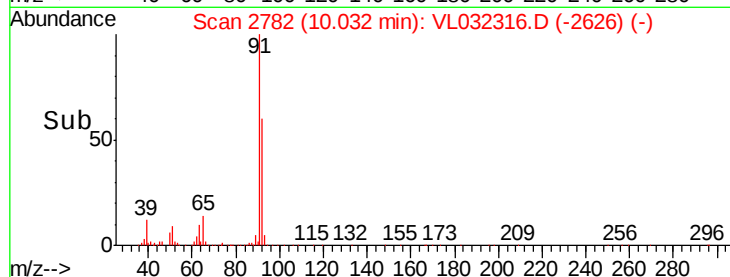
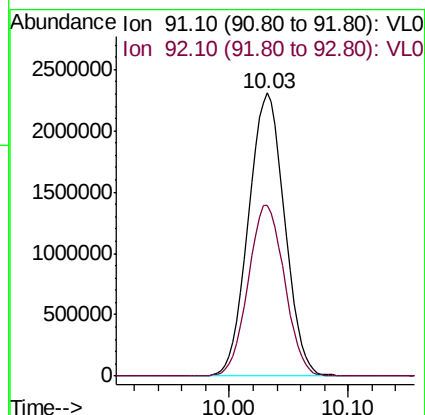
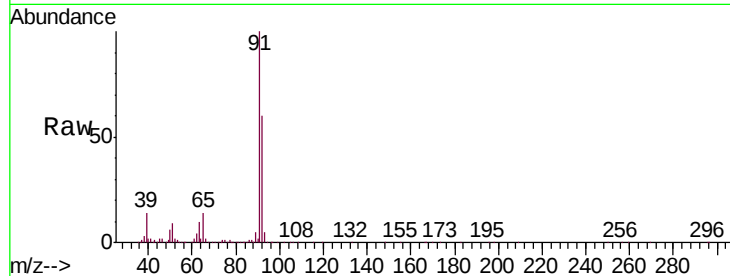
ClientSampleId :

Tot Ion: 91 Resp: 4864441

Ion Ratio Lower Upper

91 100

92 60.7 48.6 72.8



#54

1,2-Dibromoethane

Concen: 9.697 ppbv

RT: 10.85 min Scan# 3035

Delta R.T. -0.01 min

Lab File: VL032316.D

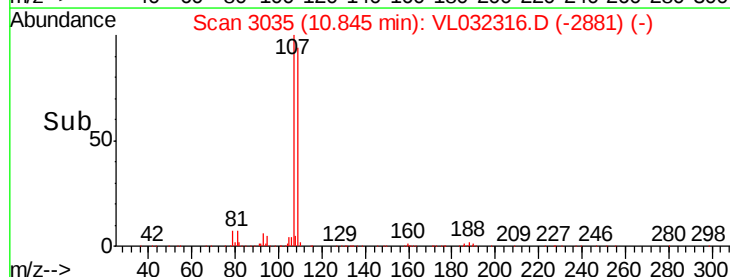
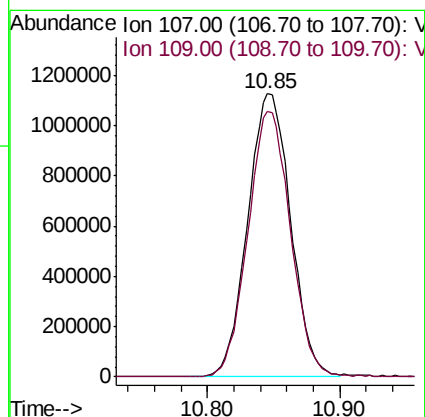
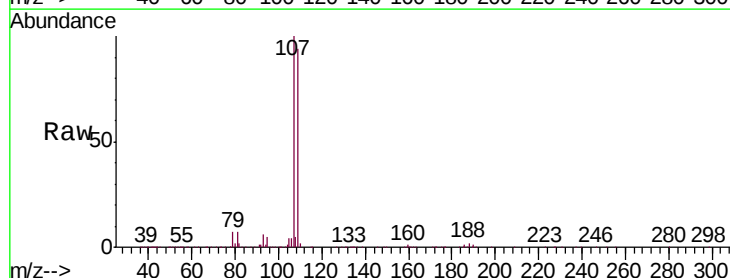
Acq: 27 Jul 2018 11:18

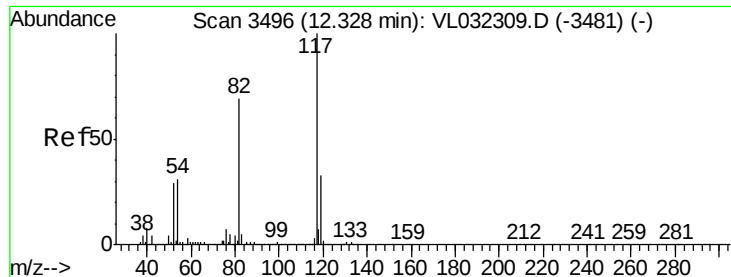
Tgt Ion: 107 Resp: 2528017

Ion Ratio Lower Upper

107 100

109 93.9 74.1 111.1

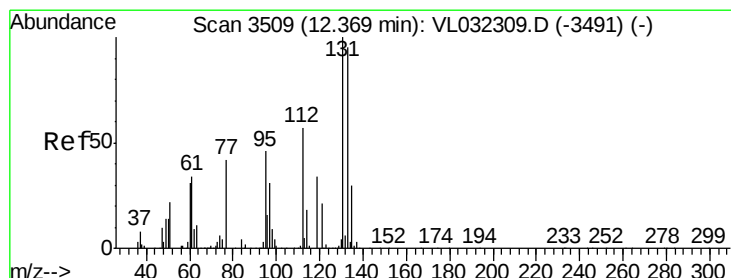
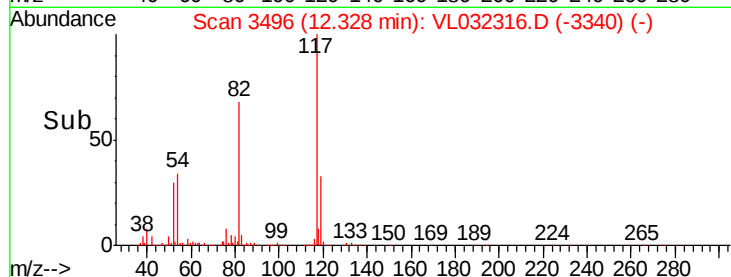
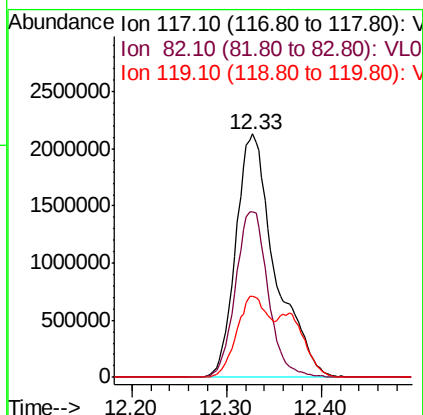
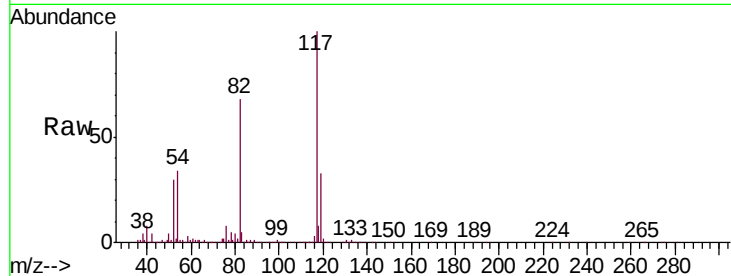




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.33 min Scan# 3496  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

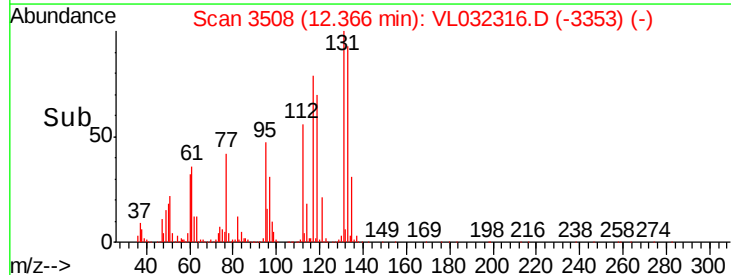
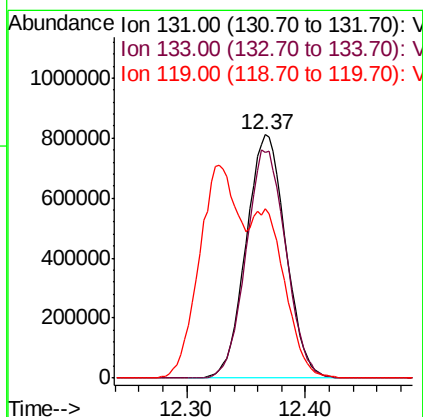
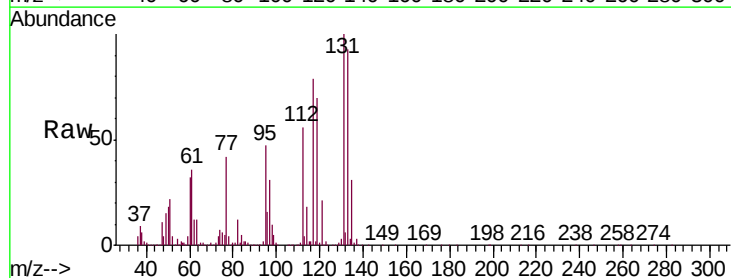
Instrument :  
MSVOA\_L  
ClientSampleId :

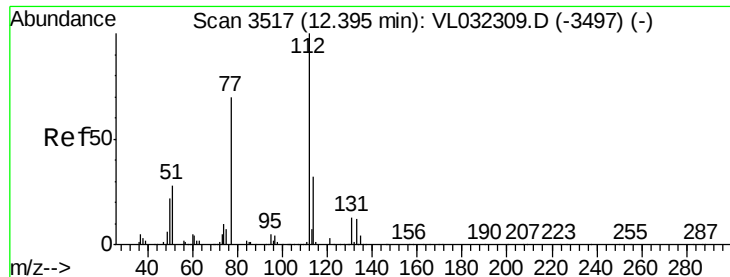
Tot Ion:117 Resp: 6162655  
Ion Ratio Lower Upper  
117 100  
82 56.6 52.6 78.8  
119 45.7 25.7 38.5#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.349 ppbv  
RT: 12.37 min Scan# 3508  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion:131 Resp: 1867353  
Ion Ratio Lower Upper  
131 100  
133 94.7 75.8 113.6  
119 150.6 48.1 72.1#

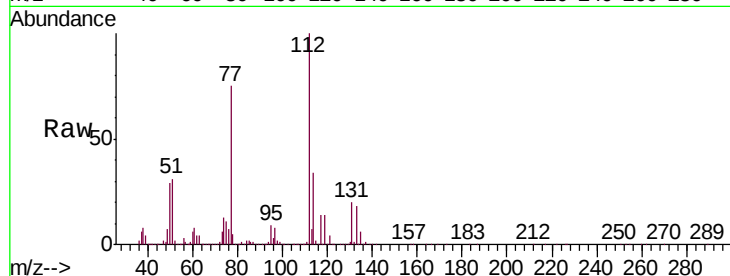




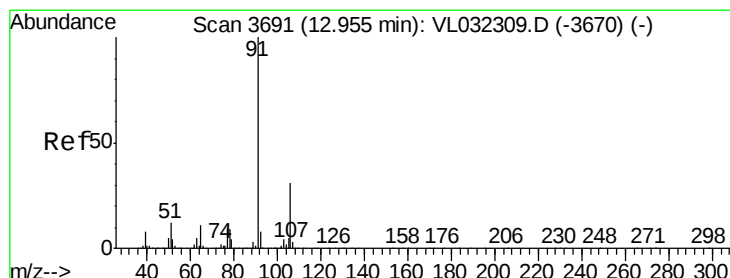
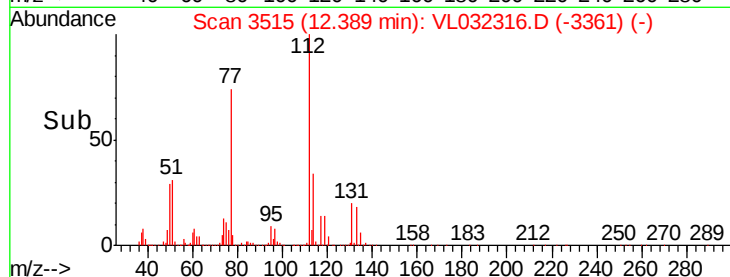
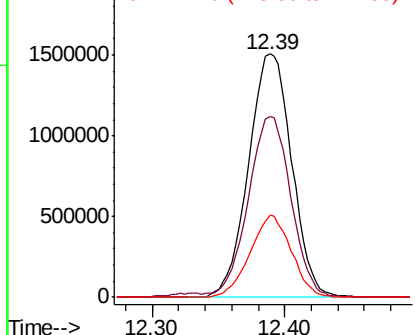
#57  
Chlorobenzene  
Concen: 7.117 ppbv  
RT: 12.39 min Scan# 3515  
Delta R.T. -0.01 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:112 Resp: 3410345  
Ion Ratio Lower Upper  
112 100  
77 74.0 56.5 84.7  
114 33.9 28.4 34.7

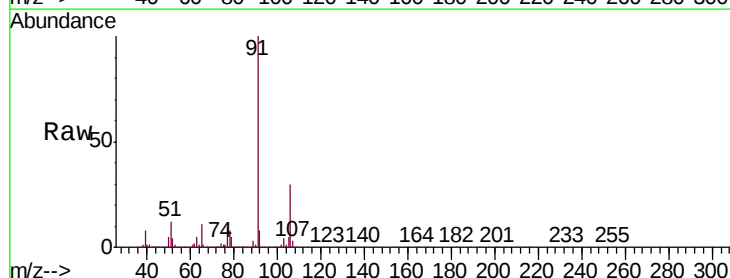


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

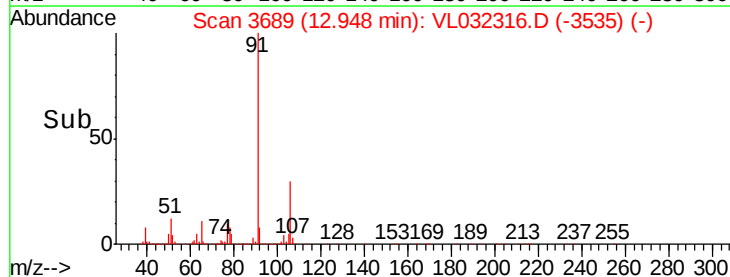
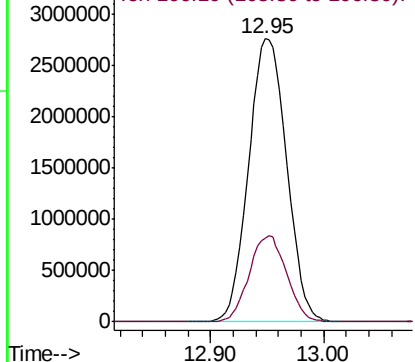


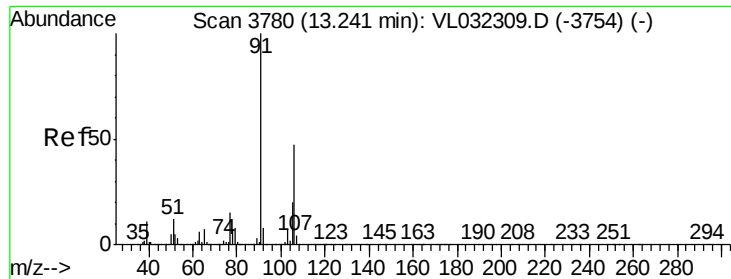
#58  
Ethyl Benzene  
Concen: 8.351 ppbv  
RT: 12.95 min Scan# 3689  
Delta R.T. -0.01 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 6451861  
Ion Ratio Lower Upper  
91 100  
106 29.6 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V

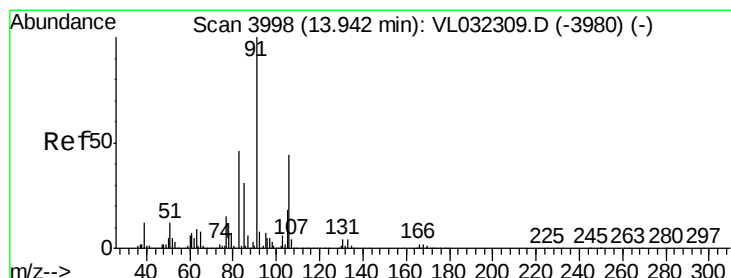
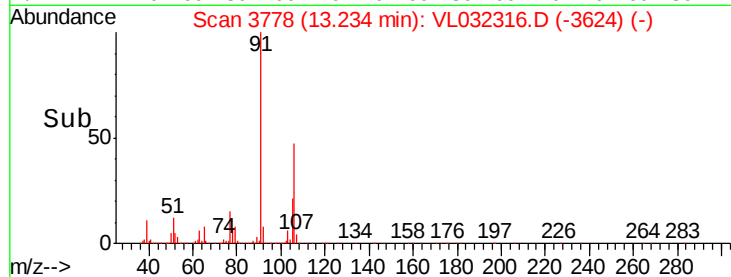
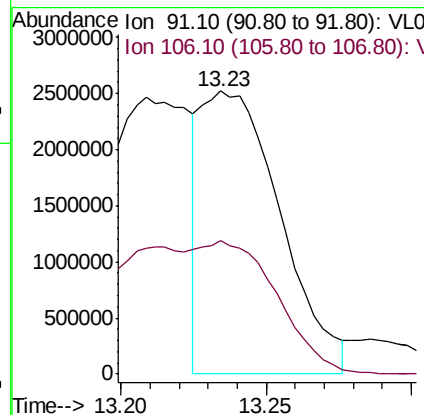
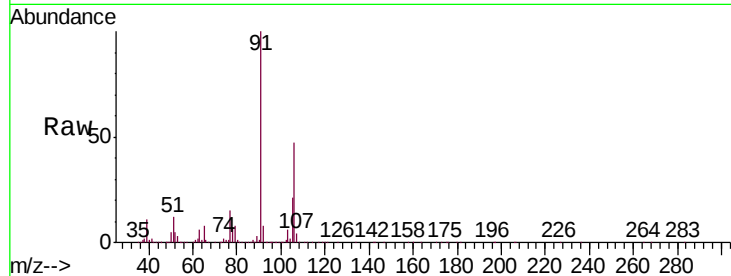




#59  
m/p-Xylene  
Concen: 7.211 ppbv  
RT: 13.23 min Scan# 3778  
Delta R.T. -0.01 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

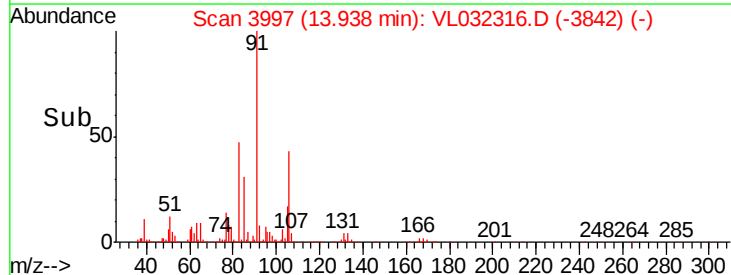
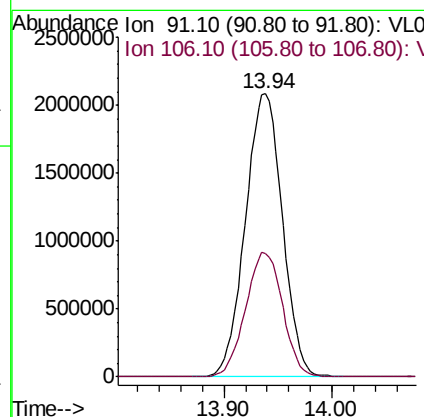
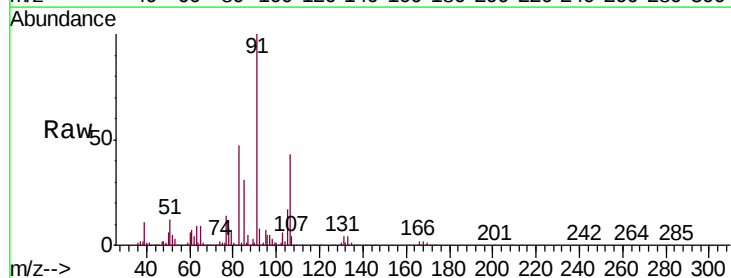
Instrument :  
MSVOA\_L  
ClientSampled :

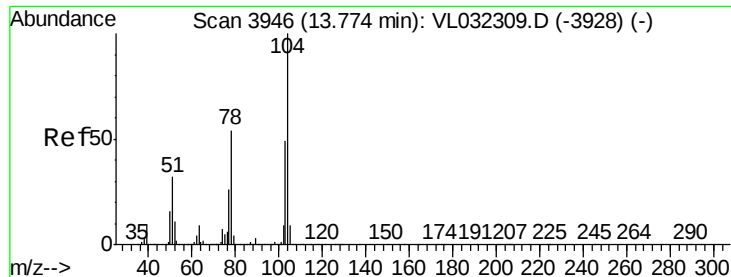
Tot Ion: 91 Resp: 4743500  
Ion Ratio Lower Upper  
91 100  
106 98.6 36.4 54.6#



#60  
o-Xylene  
Concen: 7.721 ppbv  
RT: 13.94 min Scan# 3997  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 4979435  
Ion Ratio Lower Upper  
91 100  
106 44.0 22.4 67.0





#61

Stvrene

Concen: 8.420 ppbv

RT: 13.77 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampled :

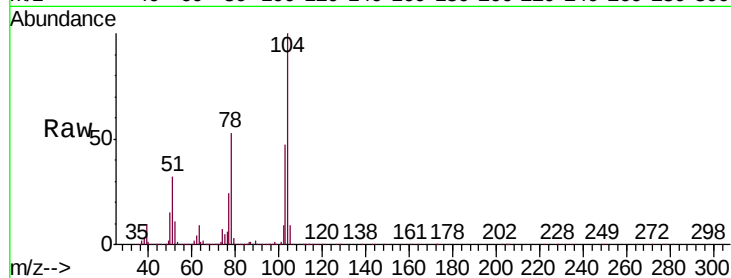
Tot Ion:104 Resp: 3996432

Ion Ratio Lower Upper

104 100

78 53.5 42.6 63.8

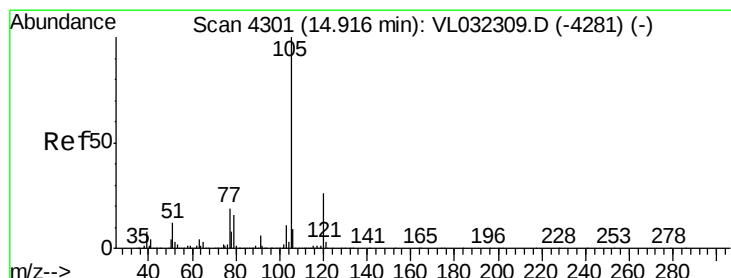
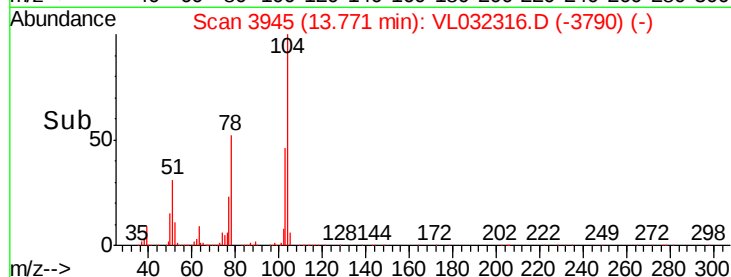
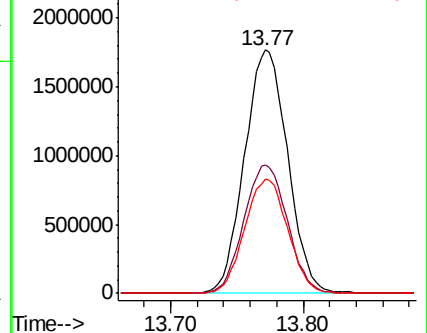
103 47.2 38.0 57.0



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: 7.765 ppbv

RT: 14.91 min Scan# 4300

Delta R.T. -0.00 min

Lab File: VL032316.D

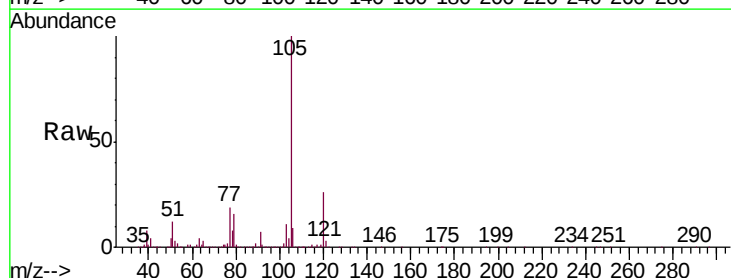
Acq: 27 Jul 2018 11:18

Tgt Ion:105 Resp: 7114801

Ion Ratio Lower Upper

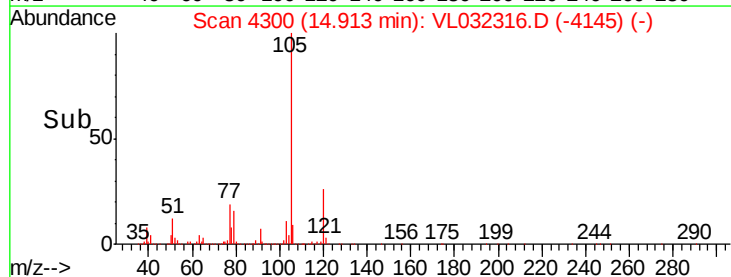
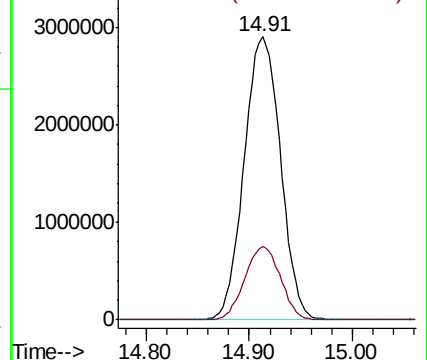
105 100

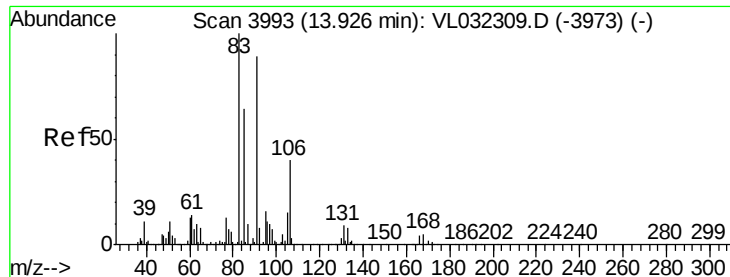
120 25.6 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.087 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

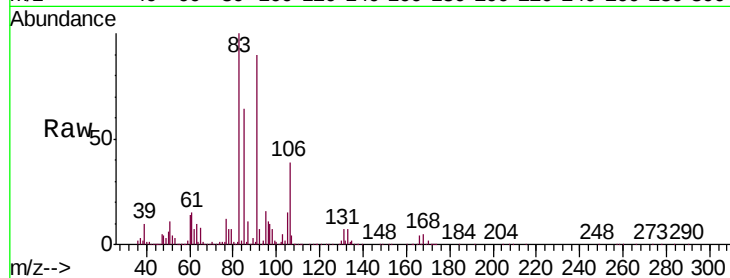
Tot Ion: 83 Resp: 3719497

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 8.3   | 4.3   | 12.8  |
| 85  | 64.6  | 32.6  | 97.7  |

83 100

131 8.3 4.3 12.8

85 64.6 32.6 97.7

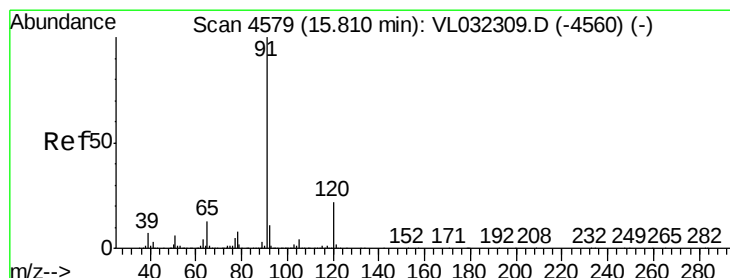
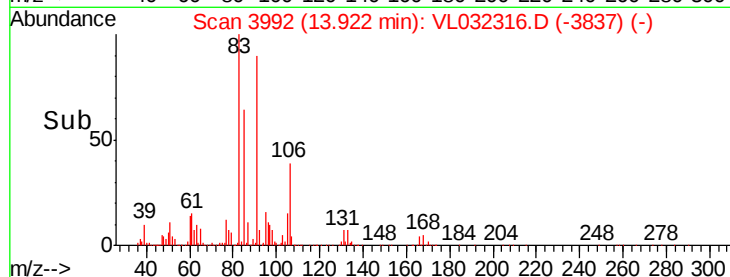
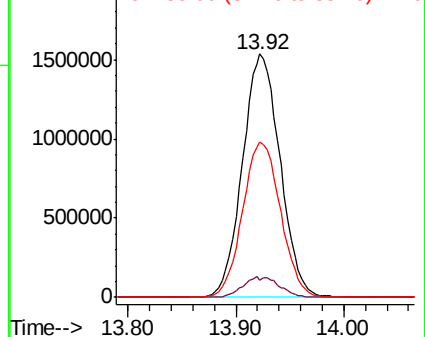


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.722 ppbv

RT: 15.81 min Scan# 4580

Delta R.T. 0.00 min

Lab File: VL032316.D

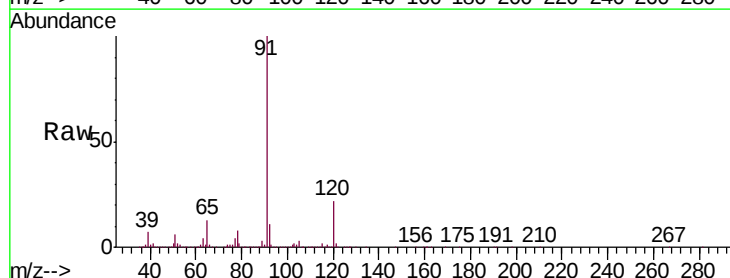
Acq: 27 Jul 2018 11:18

Tgt Ion: 120 Resp: 1841951

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 484.5 | 381.8 | 572.8 |

120 100

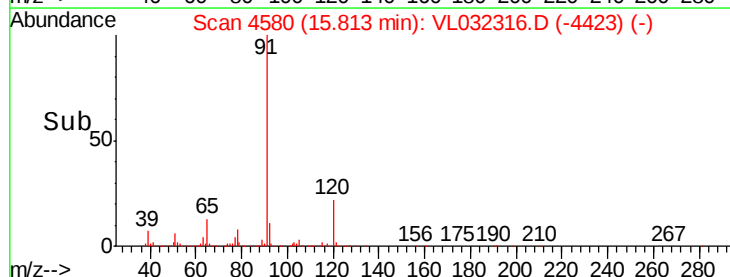
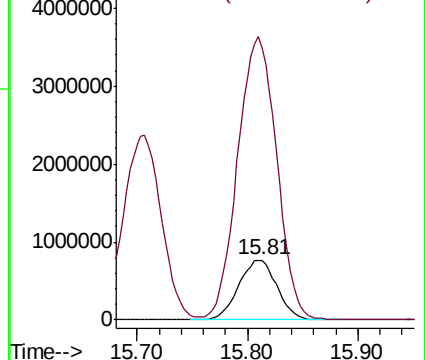
91 484.5 381.8 572.8

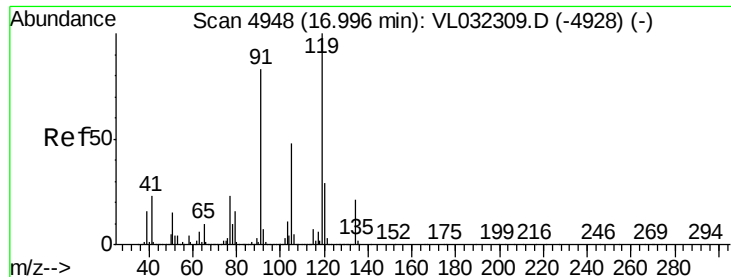


Abundance

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

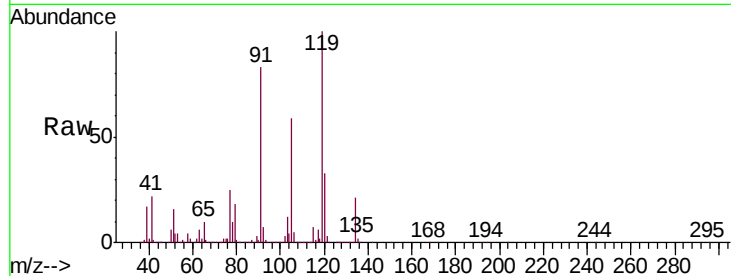




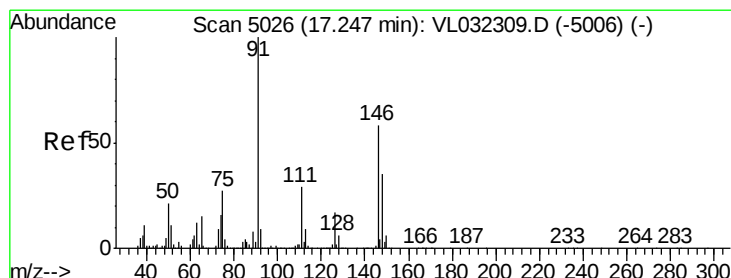
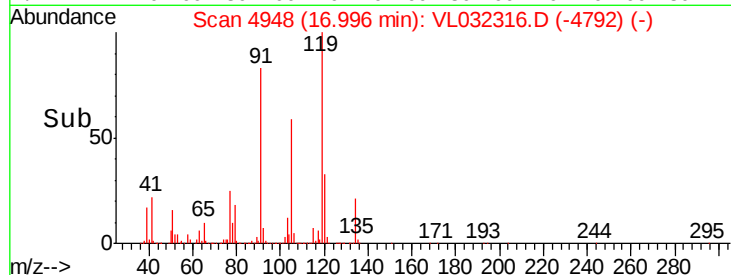
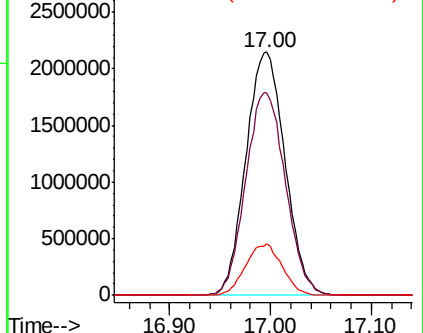
#65  
tert-Butylbenzene  
Concen: 7.460 ppbv  
RT: 17.00 min Scan# 4948  
Delta R.T. 0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:119 Resp: 5774875  
Ion Ratio Lower Upper  
119 100  
91 84.8 67.5 101.3  
134 19.7 15.8 23.6

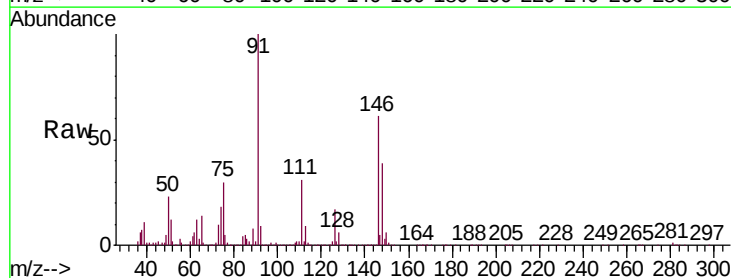


Abundance Ion 119.20 (118.90 to 119.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 134.20 (133.90 to 134.90): V

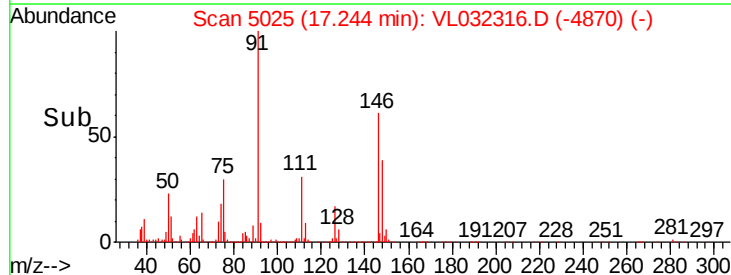
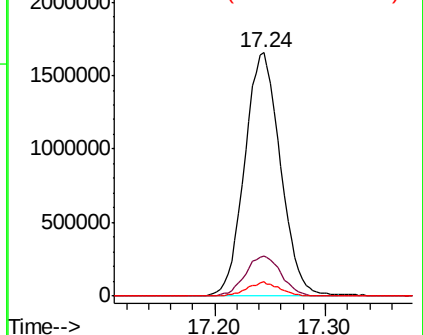


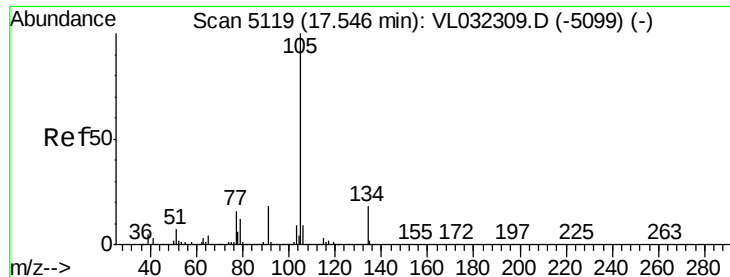
#66  
Benzyl Chloride  
Concen: 8.062 ppbv  
RT: 17.24 min Scan# 5025  
Delta R.T. -0.00 min  
Lab File: VL032316.D  
Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 3719609  
Ion Ratio Lower Upper  
91 100  
126 16.7 13.7 20.5  
128 5.3 4.3 6.5



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: 7.491 ppbv

RT: 17.55 min Scan# 5119

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

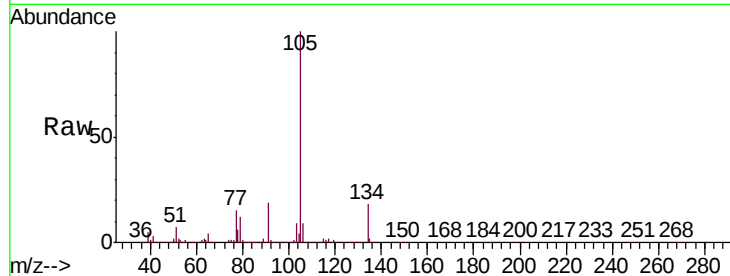
ClientSampleId :

Tot Ion:105 Resp: 8683226

Ion Ratio Lower Upper

105 100

134 17.7 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.55

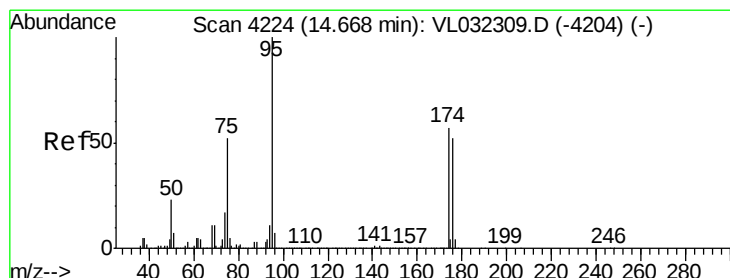
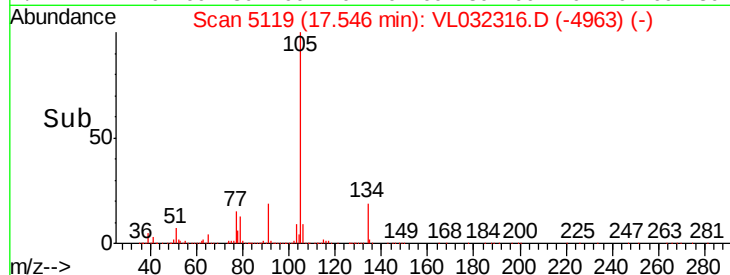
3000000

2000000

1000000

0

Time--> 17.40 17.50 17.60



#68

1-Bromo-4-Fluorobenzene

Concen: 8.353 ppbv

RT: 14.67 min Scan# 4223

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

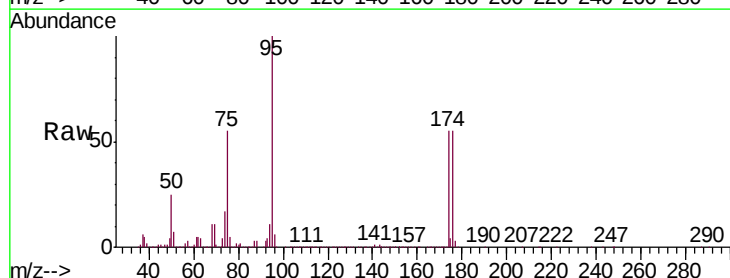
Tgt Ion: 95 Resp: 3995677

Ion Ratio Lower Upper

95 100

174 55.9 45.5 68.3

175 4.1 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

2000000

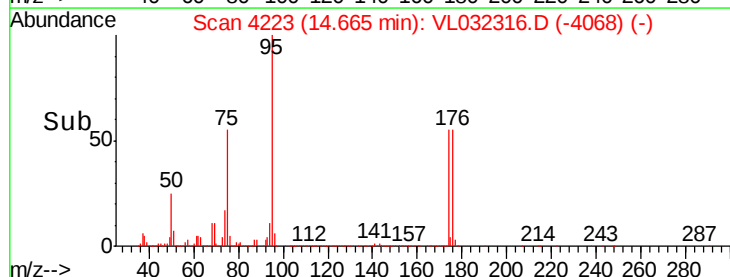
1500000

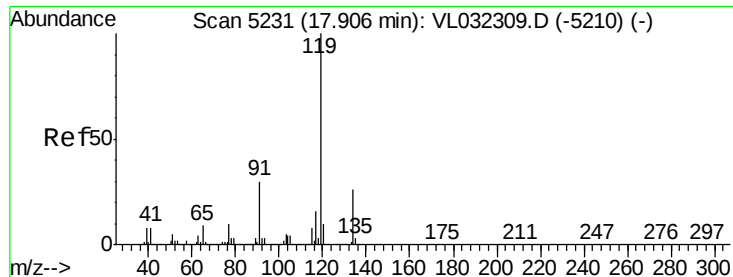
1000000

500000

0

Time--> 14.60 14.70

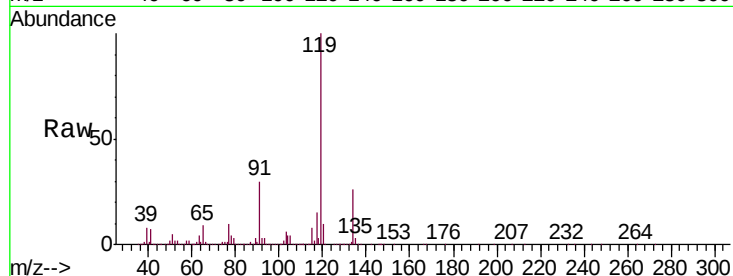




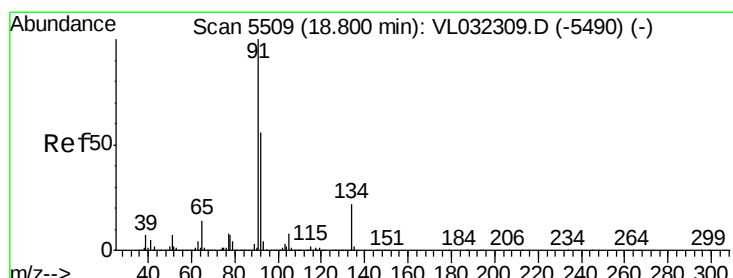
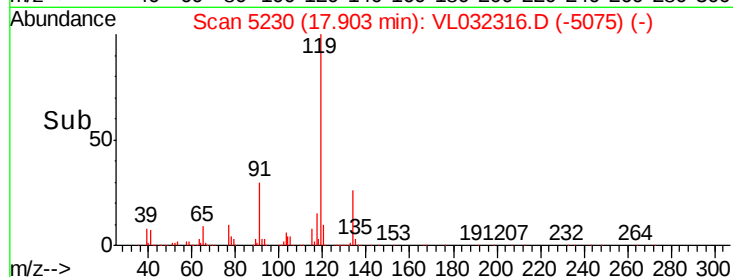
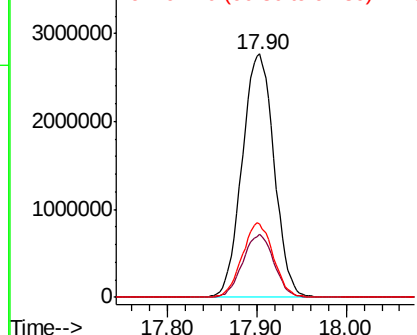
#69  
 p-Isopropyltoluene  
 Concen: 7.674 ppbv  
 RT: 17.90 min Scan# 5230  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:119 Resp: 6892179  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 20.3 30.5  
 91 29.7 23.8 35.6

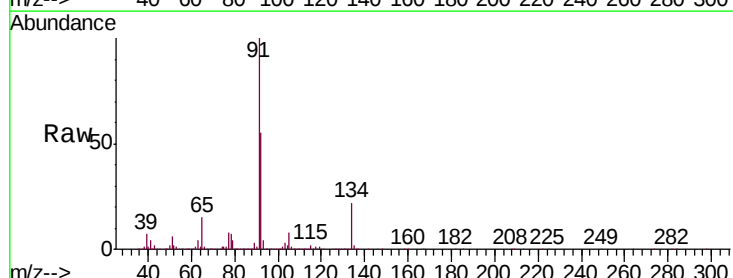


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

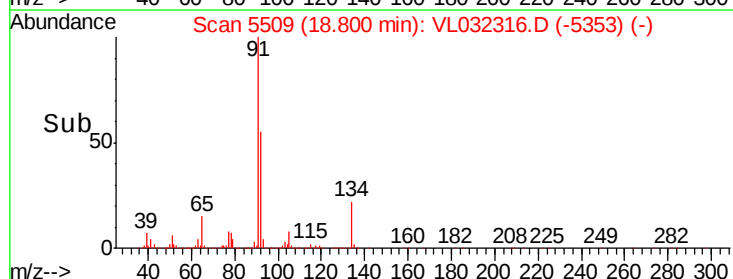
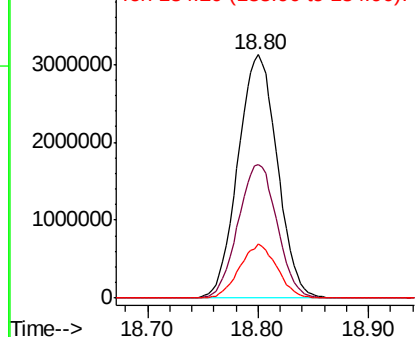


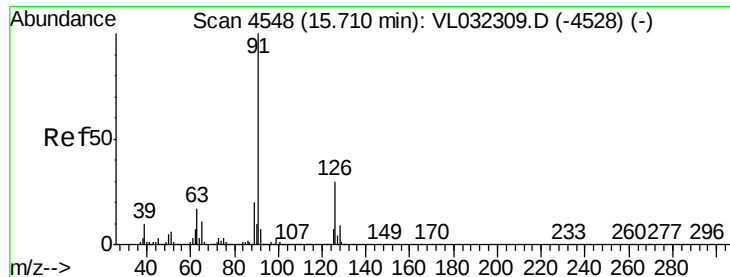
#70  
 n-Butylbenzene  
 Concen: 7.401 ppbv  
 RT: 18.80 min Scan# 5509  
 Delta R.T. 0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 91 Resp: 7673981  
 Ion Ratio Lower Upper  
 91 100  
 92 54.7 44.2 66.4  
 134 21.3 17.4 26.2



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

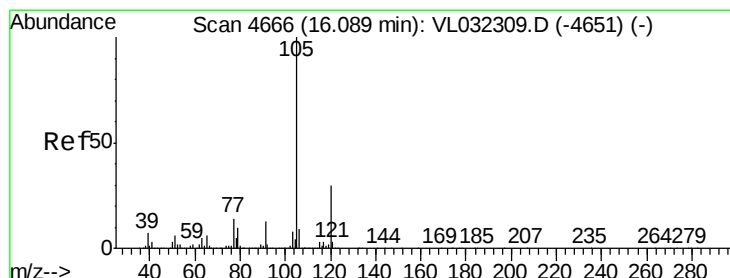
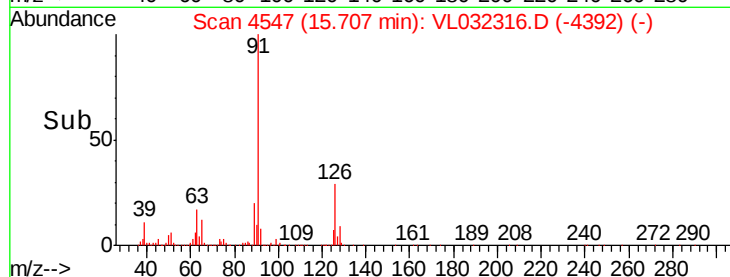
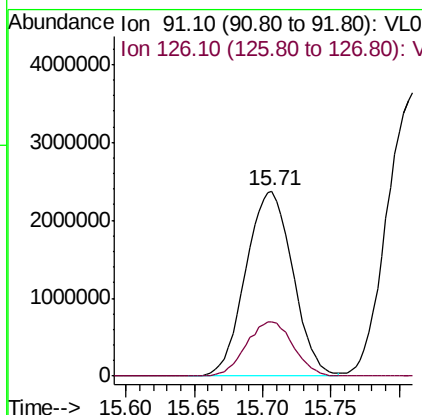
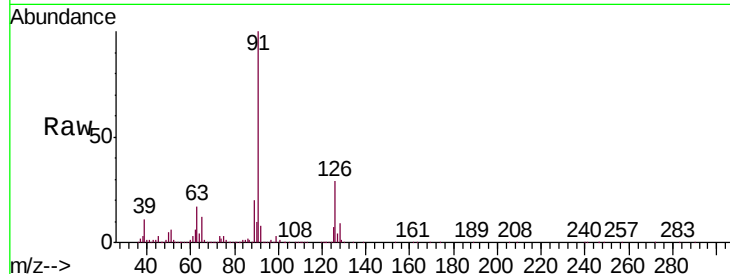




#71  
 2-Chlorotoluene  
 Concen: 7.895 ppbv  
 RT: 15.71 min Scan# 4547  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

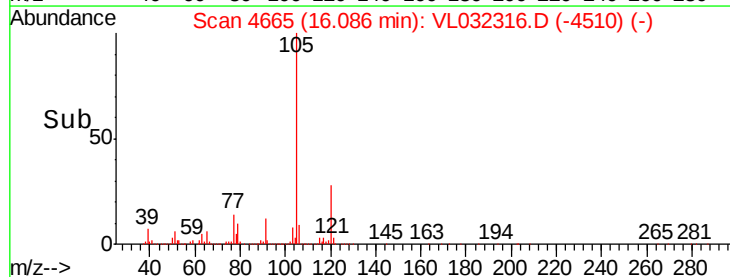
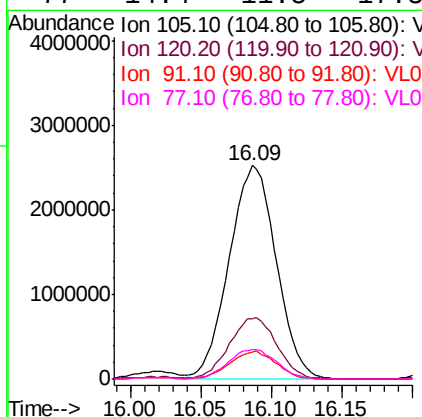
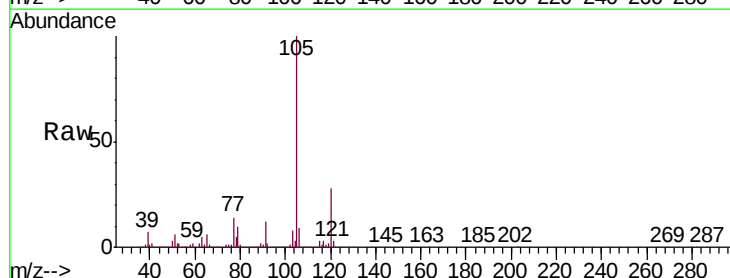
Instrument :  
 MSVOA\_L  
 ClientSampled :

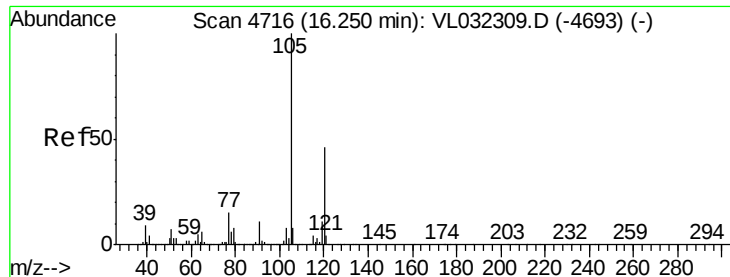
Tot Ion: 91 Resp: 5676761  
 Ion Ratio Lower Upper  
 91 100  
 126 29.4 11.8 47.0



#72  
 4-Ethyltoluene  
 Concen: 8.123 ppbv  
 RT: 16.09 min Scan# 4665  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion: 105 Resp: 5871529  
 Ion Ratio Lower Upper  
 105 100  
 120 29.0 23.1 34.7  
 91 12.7 10.0 15.0  
 77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 7.791 ppbv

RT: 16.24 min Scan# 4714

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

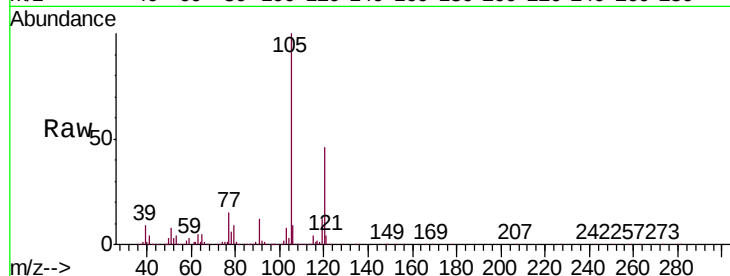
ClientSampleId :

Tot Ion:105 Resp: 5542970

Ion Ratio Lower Upper

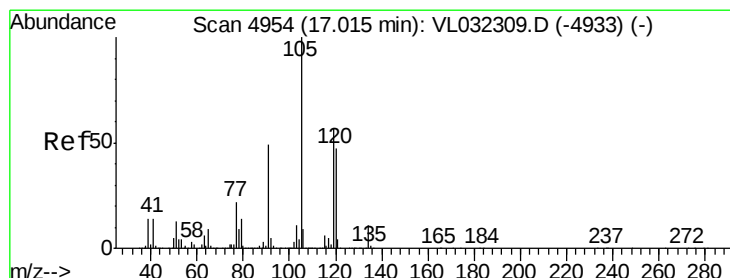
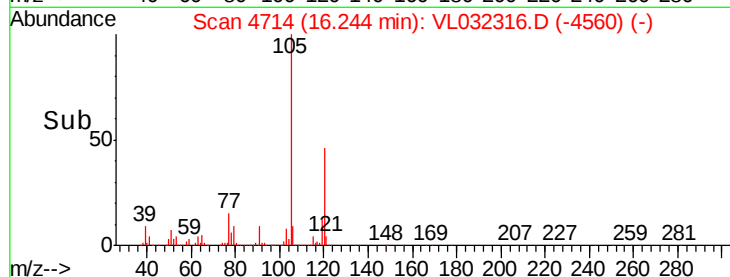
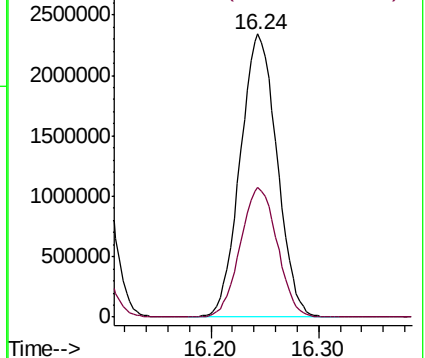
105 100

120 45.6 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: 7.216 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Tgt Ion:105 Resp: 5411927

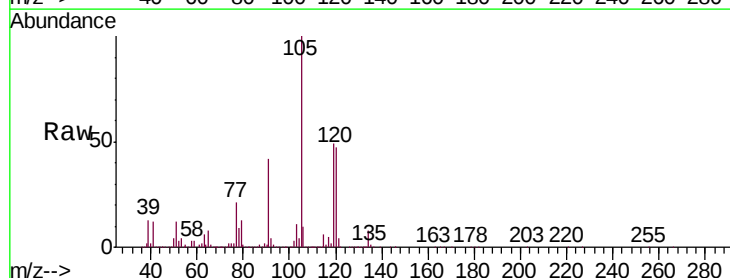
Ion Ratio Lower Upper

105 100

120 46.6 37.8 56.6

91 42.2 39.4 59.0

77 20.7 17.6 26.4

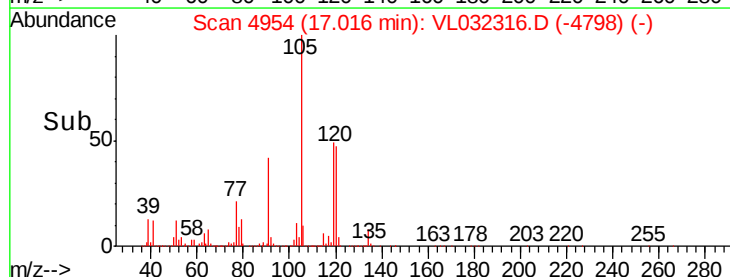
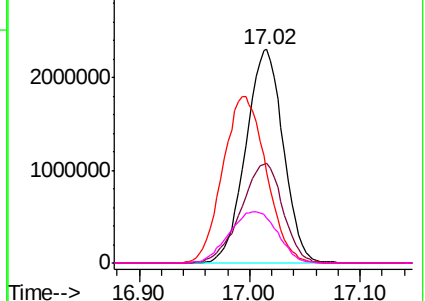


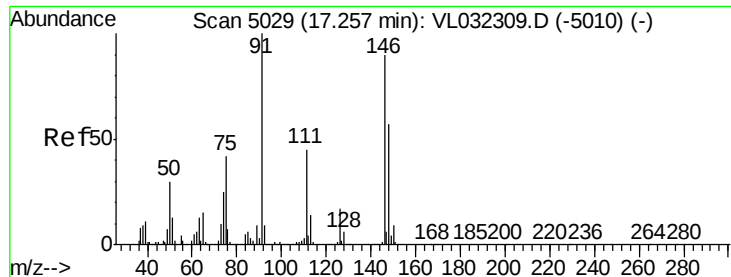
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 6.947 ppbv

RT: 17.25 min Scan# 5028

Delta R.T. -0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

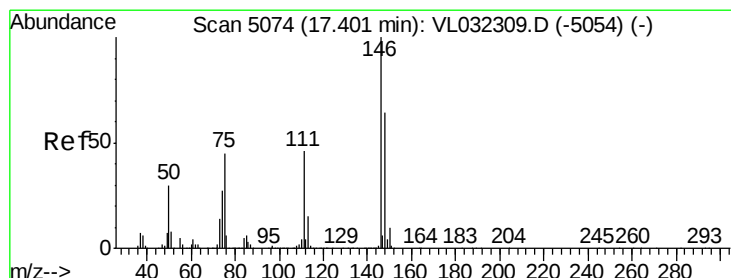
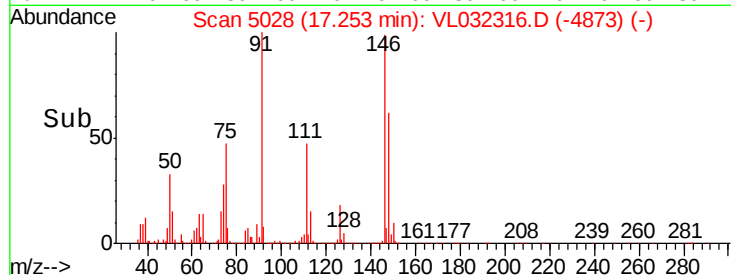
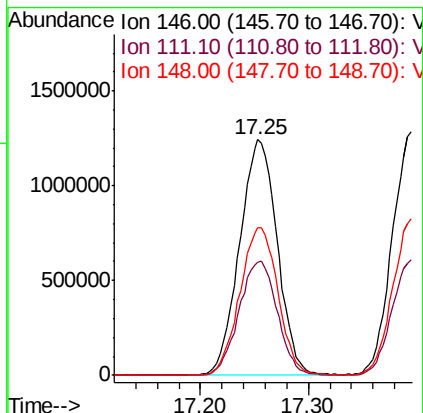
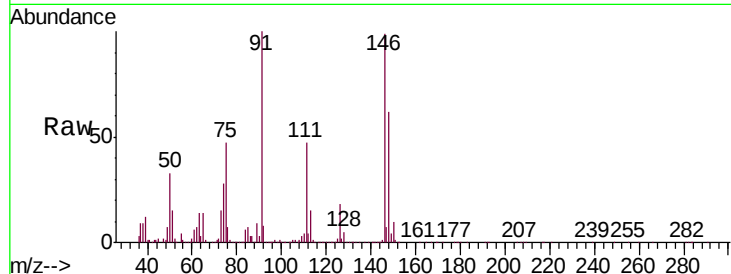
Tot Ion:146 Resp: 3017278

Ion Ratio Lower Upper

146 100

111 49.3 24.6 73.8

148 63.6 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 7.344 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

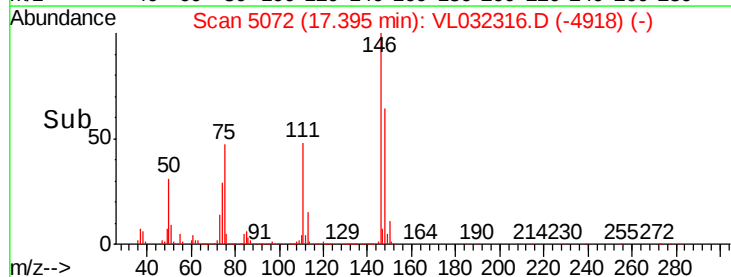
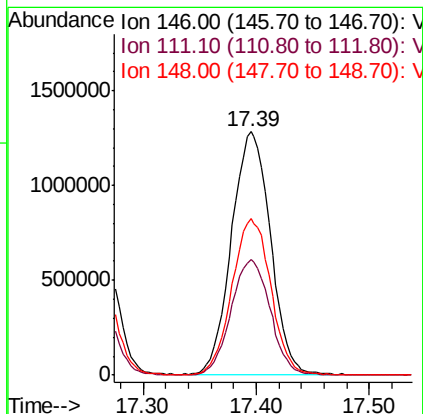
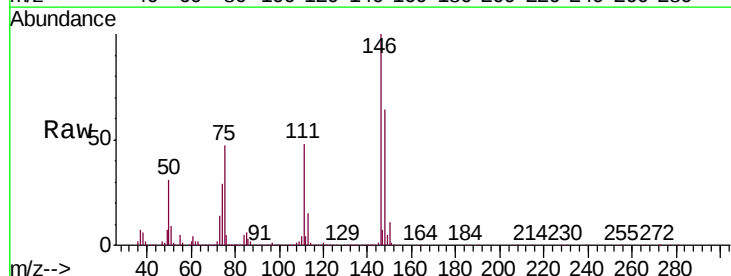
Tgt Ion:146 Resp: 3060640

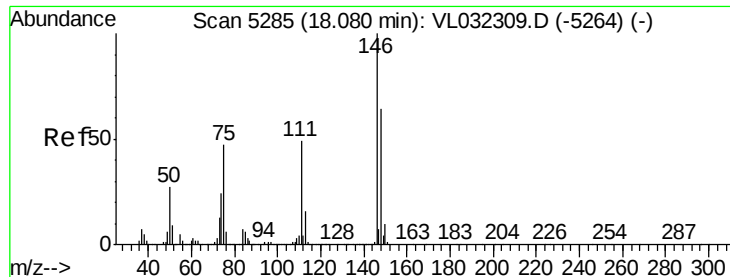
Ion Ratio Lower Upper

146 100

111 47.8 23.6 70.8

148 65.0 32.1 96.3

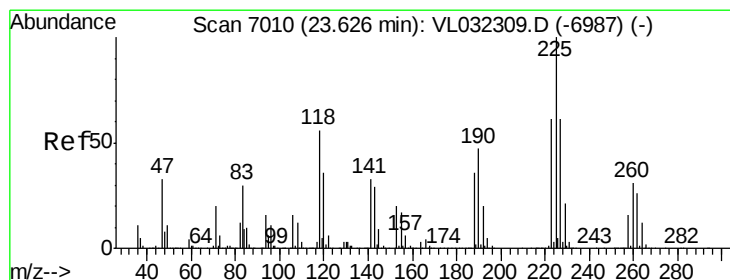
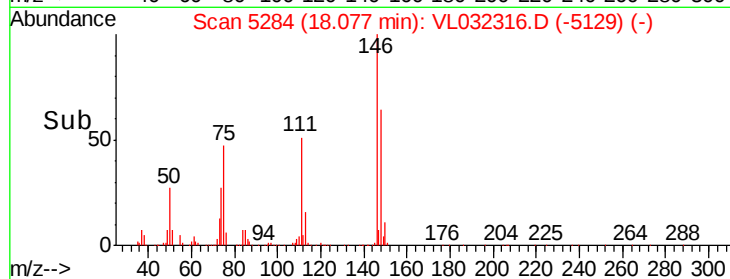
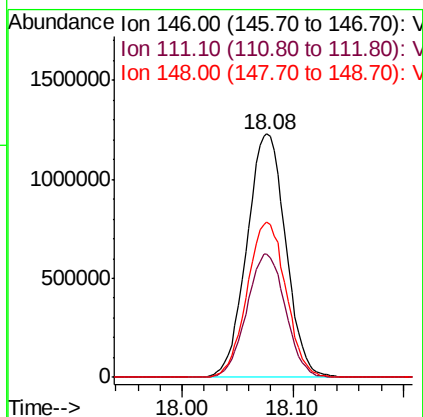
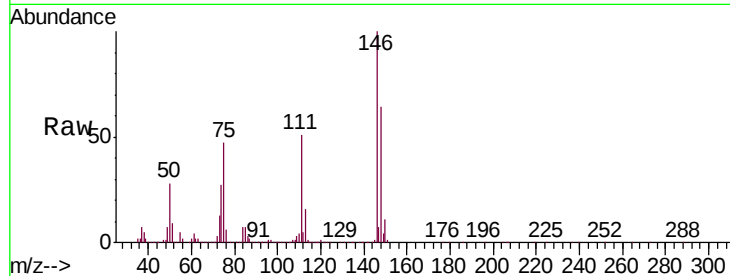




#77  
 1,2-Dichlorobenzene  
 Concen: 7.028 ppbv  
 RT: 18.08 min Scan# 5284  
 Delta R.T. -0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

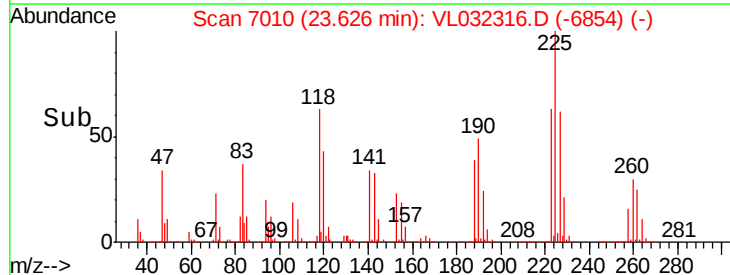
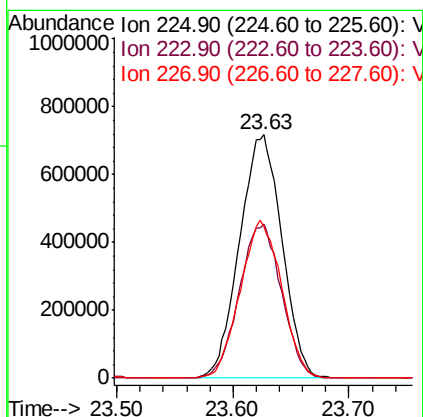
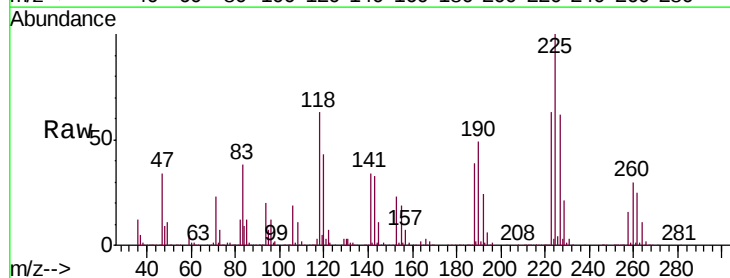
Instrument :  
 MSVOA\_L  
 ClientSampleId :

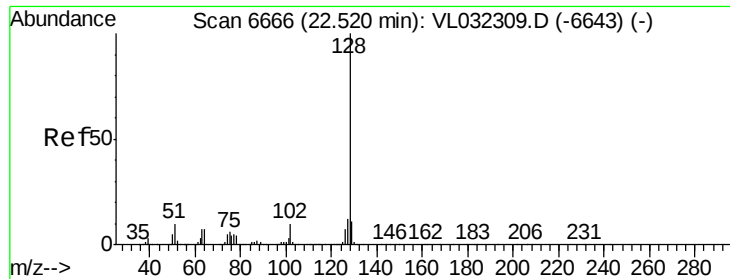
Tot Ion:146 Resp: 2999229  
 Ion Ratio Lower Upper  
 146 100  
 111 50.6 25.1 75.3  
 148 64.0 31.9 95.7



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 12.112 ppbv  
 RT: 23.63 min Scan# 7010  
 Delta R.T. 0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Tgt Ion:225 Resp: 1817627  
 Ion Ratio Lower Upper  
 225 100  
 223 63.2 50.5 75.7  
 227 63.7 51.3 76.9





#79

Naphthalene

Concen: 8.226 ppbv

RT: 22.51 min Scan# 6664

Delta R.T. -0.01 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

Instrument :

MSVOA\_L

ClientSampleId :

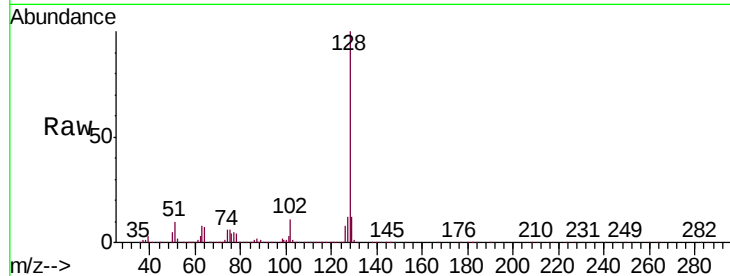
Tot Ion:128 Resp: 5354300

Ion Ratio Lower Upper

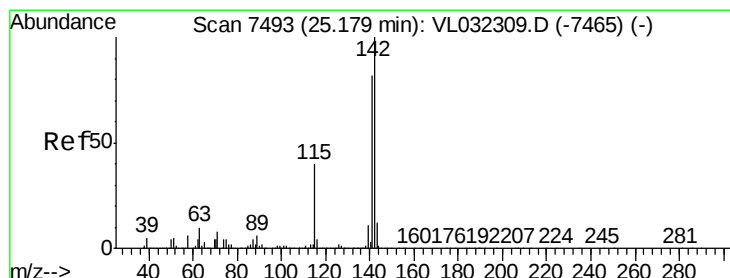
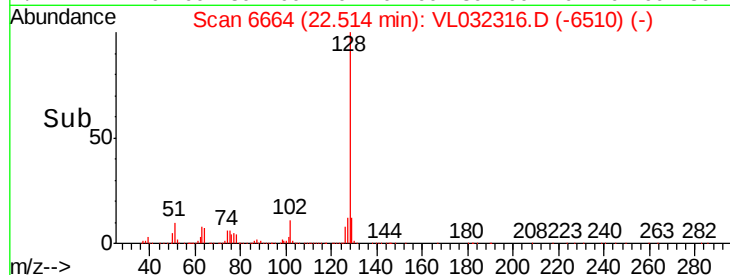
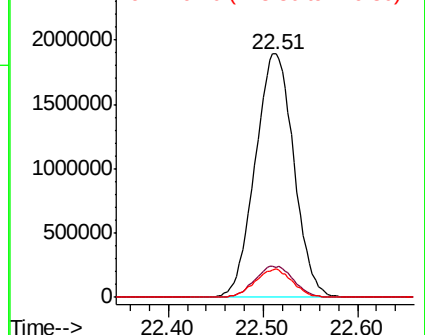
128 100

127 12.3 9.9 14.9

129 11.5 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: 10.389 ppbv

RT: 25.18 min Scan# 7493

Delta R.T. 0.00 min

Lab File: VL032316.D

Acq: 27 Jul 2018 11:18

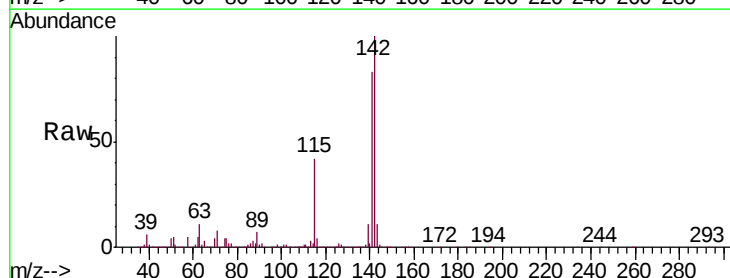
Tgt Ion:142 Resp: 2675784

Ion Ratio Lower Upper

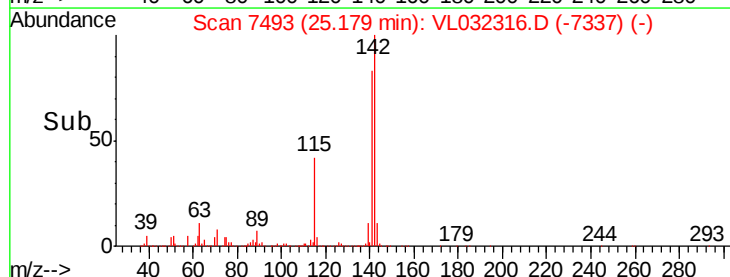
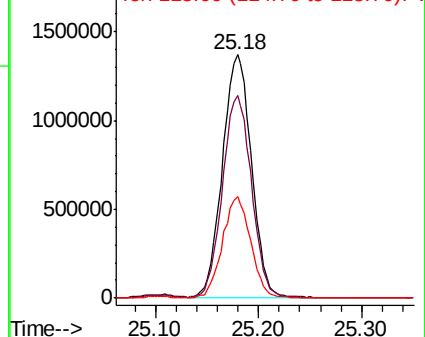
142 100

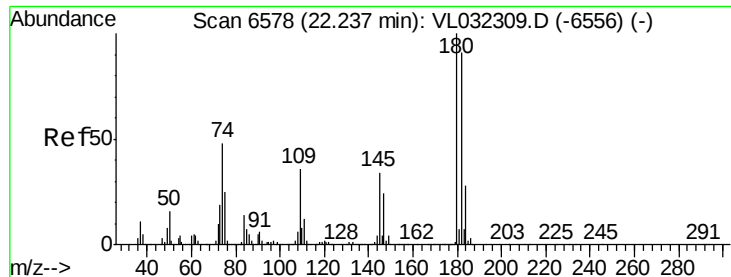
141 83.6 66.7 100.1

115 40.6 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

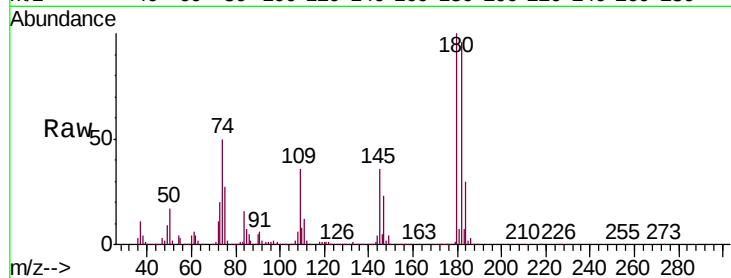




#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.760 ppbv  
 RT: 22.24 min Scan# 6578  
 Delta R.T. 0.00 min  
 Lab File: VL032316.D  
 Acq: 27 Jul 2018 11:18

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:180 Resp: 2524052  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.2 114.2  
 184 30.5 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

