

Data File : VL032145.D  
Acq On : 29 Jun 2018 18:04  
Operator : SY/AP  
Sample : VSTDICCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Quant Time: Jun 29 18:43:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LThu Jun 14 15:20:36 2018  
QLast Update : Thu Jun 14 15:20:36 2018  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.85  | 49   | 1237300  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.39  | 114  | 3164677  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.35 | 117  | 4059730  | 10.00 | ppbv  | -0.01    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.68  | 95    | 2397164  | 7.95     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 79.50% |

#### Target Compounds

|                                |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.13 | 85  | 1234393 | 9.513  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 3.07 | 51  | 1382134 | 8.603  | ppbv   | 97     |
| 4) Chloromethane               | 3.23 | 50  | 762556  | 8.883  | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.35 | 62  | 744857  | 8.412  | ppbv   | 100    |
| 6) Bromomethane                | 3.58 | 94  | 435725  | 8.475  | ppbv   | 95     |
| 7) Chloroethane                | 3.67 | 64  | 266400  | 8.116  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane   | 3.28 | 85  | 1620499 | 9.080  | ppbv   | 99     |
| 9) Propene                     | 3.09 | 41  | 663575  | 8.454  | ppbv   | 97     |
| 10) Heptane                    | 8.34 | 43  | 2003927 | 9.005  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 4.07 | 101 | 1652345 | 9.667  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63 | 101 | 1055505 | 9.123  | ppbv   | 99     |
| 13) Ethanol                    | 3.71 | 45  | 171346  | 7.248  | ppbv   | 100    |
| 14) Bromoethene                | 3.86 | 108 | 529287  | 9.330  | ppbv   | 98     |
| 15) Acetone                    | 3.97 | 43  | 1297948 | 7.895  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.42 | 39  | 677282  | 8.772  | ppbv   | 91     |
| 17) tert-Butyl alcohol         | 4.43 | 59  | 900056  | 9.106  | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.42 | 96  | 530295  | 9.333  | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 4.09 | 45  | 1155747 | 8.956  | ppbv   | 88     |
| 20) Methylene Chloride         | 4.48 | 84  | 455999  | 8.212  | ppbv   | 98     |
| 21) Allyl Chloride             | 4.55 | 41  | 950793  | 9.320  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 5.04 | 96  | 517921  | 8.956  | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.23 | 43  | 2469943 | 9.871  | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.17 | 63  | 1540979 | 8.182  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.85 | 43  | 2723638 | 7.555  | ppbv   | 100    |
| 26) Hexane                     | 5.86 | 57  | 1222252 | 7.647  | ppbv   | 94     |
| 27) Carbon Disulfide           | 4.70 | 76  | 1361101 | 8.518  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.19 | 73  | 2272487 | 11.241 | ppbv   | 100    |
| 29) Chloroform                 | 5.94 | 83  | 1851946 | 8.777  | ppbv   | 98     |
| 30) Cyclohexane                | 7.34 | 84  | 1136782 | 8.637  | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.73 | 61  | 1278664 | 8.989  | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.71 | 97  | 1884236 | 8.567  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.41 | 43  | 1918260 | 7.467  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.23 | 117 | 1914465 | 8.717  | ppbv   | 97     |
| 36) Benzene                    | 7.10 | 78  | 2714324 | 7.911  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.50 | 62  | 1414075 | 8.014  | ppbv   | 99     |
| 38) Trichloroethene            | 8.06 | 130 | 1113672 | 8.418  | ppbv   | 99     |
| 39) 1,2-Dichloropropane        | 7.84 | 63  | 1137603 | 9.029  | ppbv   | 97     |
| 40) 1,4-Dioxane                | 8.05 | 88  | 466472  | 7.944  | ppbv # | 13     |
| 41) Tetrahydrofuran            | 6.23 | 42  | 1152023 | 7.508  | ppbv   | 99     |
| 42) Bromodichloromethane       | 8.02 | 83  | 2411030 | 10.102 | ppbv   | 97     |
| 43) Methyl Methacrylate        | 8.23 | 69  | 1279521 | 9.426  | ppbv   | 98     |

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Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Quant Time: Jun 29 18:43:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LThu Jun 14 15:20:36 2018  
QLast Update : Thu Jun 14 15:20:36 2018  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 8.09  | 57   | 5132853  | 9.114  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.52  | 75   | 1675810  | 9.982  | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.94  | 75   | 1860395  | 8.656  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.72  | 97   | 1212049  | 8.501  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.56 | 129  | 1994870  | 9.347  | ppbv   | 99       |
| 49) Bromoform                 | 13.31 | 173  | 1672394  | 10.234 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.97  | 43   | 3078813  | 7.728  | ppbv   | 98       |
| 51) 2-Hexanone                | 10.37 | 43   | 2654075  | 6.694  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.48 | 164  | 977827   | 7.710  | ppbv   | 97       |
| 53) Toluene                   | 10.05 | 91   | 3546533  | 8.563  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.86 | 107  | 1843845  | 8.740  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.39 | 131  | 1303919  | 7.224  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.41 | 112  | 2475842  | 6.436  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.97 | 91   | 4585891  | 6.483  | ppbv   | 98       |
| 59) m/p-Xylene                | 13.26 | 91   | 3665205  | 6.548  | ppbv # | 34       |
| 60) o-Xylene                  | 13.95 | 91   | 3559804  | 6.412  | ppbv   | 98       |
| 61) Styrene                   | 13.79 | 104  | 3148414  | 18.983 | ppbv   | 97       |
| 62) Isopropylbenzene          | 14.93 | 105  | 5296888  | 7.159  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.94 | 83   | 2496436  | 5.790  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.83 | 120  | 1365262  | 7.082  | ppbv   | 94       |
| 65) tert-Butylbenzene         | 17.01 | 119  | 4400000  | 6.754  | ppbv   | 98       |
| 66) Benzyl Chloride           | 17.26 | 91   | 3316180  | 39.898 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.57 | 105  | 6436341  | 6.779  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.92 | 119  | 5335474  | 6.855  | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.82 | 91   | 5567937  | 6.801  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.73 | 91   | 3994809  | 7.038  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 16.11 | 105  | 4452233  | 7.105  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.27 | 105  | 4202554  | 7.491  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 17.03 | 105  | 4081138  | 6.841  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.27 | 146  | 2339384  | 6.413  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.42 | 146  | 2451831  | 6.609  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 18.10 | 146  | 2396894  | 6.316  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.64 | 225  | 831198   | 8.049  | ppbv   | 99       |
| 79) Naphthalene               | 22.54 | 128  | 4554474  | 7.311  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.19 | 142  | 2512684  | 6.736  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 22.26 | 180  | 2074842  | 8.506  | ppbv   | 99       |

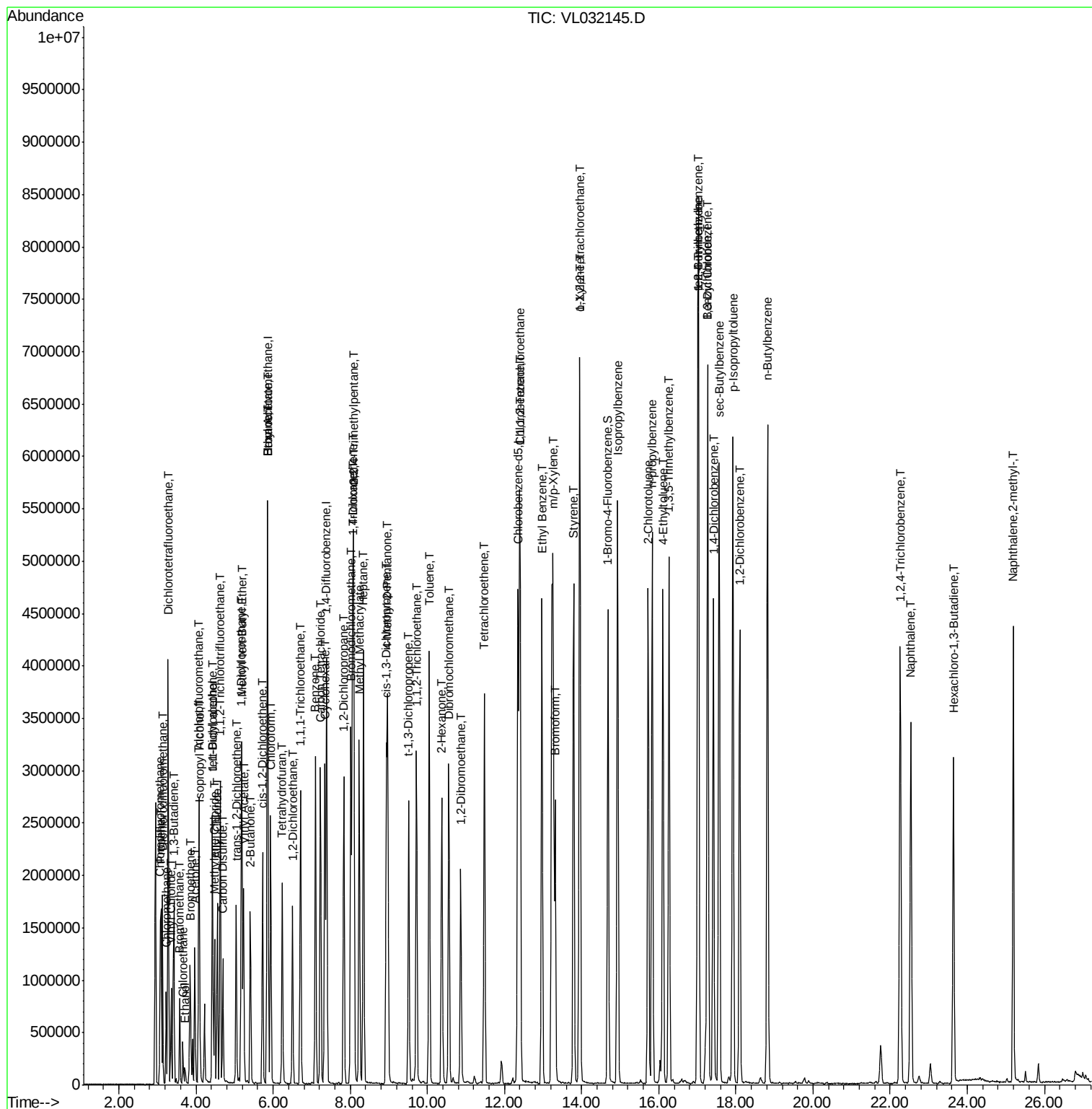
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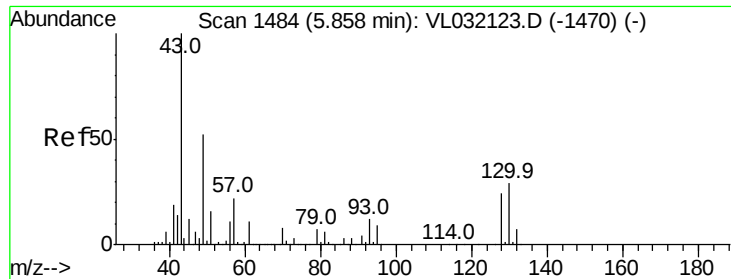
Data File : VL032145.D

```
Acq On       : 29 Jun 2018  18:04
Operator     : SY/AP
Sample       : VSTDICCC010
Misc         : 400ml/MSVOA_L
ALS Vial     : 1      Sample Multipl
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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCC010

Quant Time: Jun 29 18:43:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

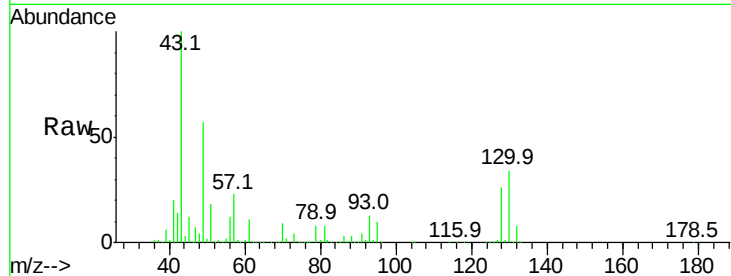
MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 49 Resp: 1237300

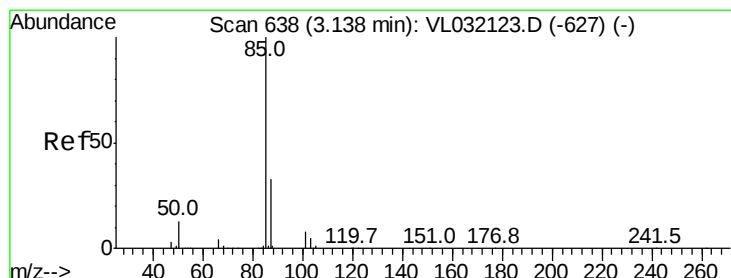
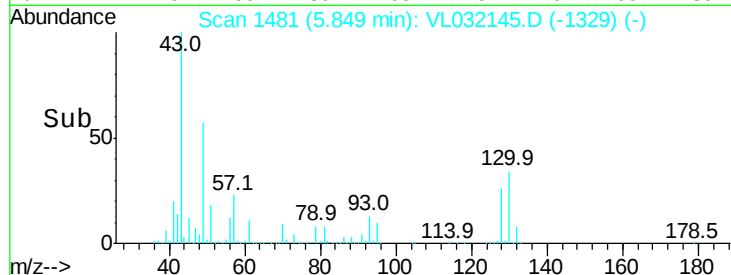
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 46.6  | 23.4  | 70.0  |
| 130 | 59.7  | 30.3  | 90.9  |



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: 9.513 ppbv

RT: 3.13 min Scan# 636

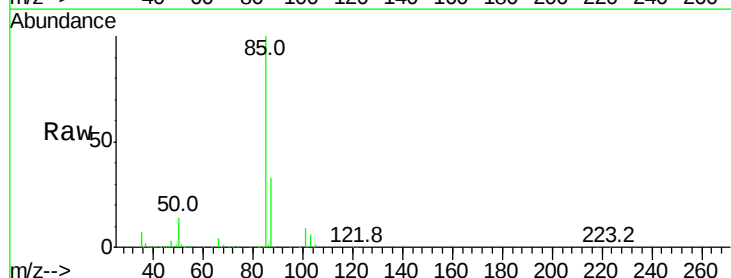
Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

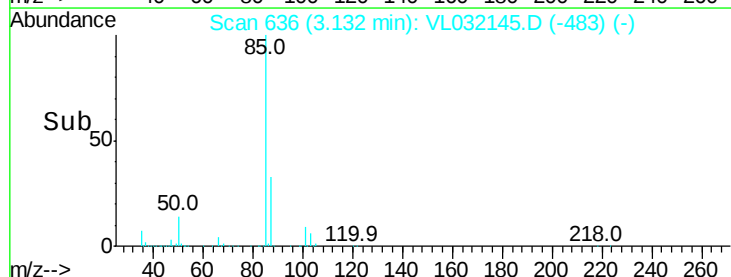
Tgt Ion: 85 Resp: 1234393

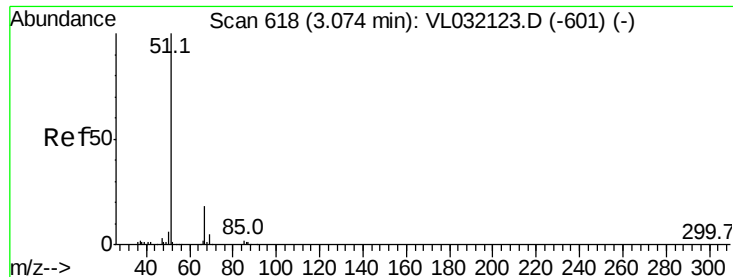
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 32.5  | 26.7  | 40.1  |



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.603 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

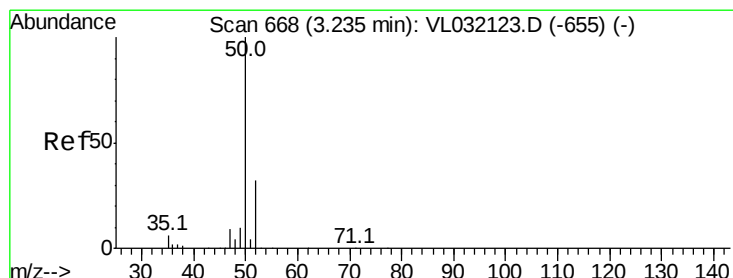
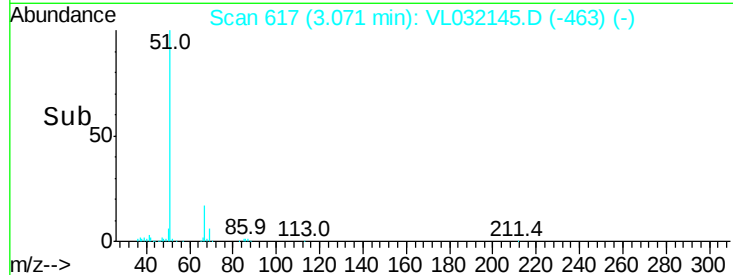
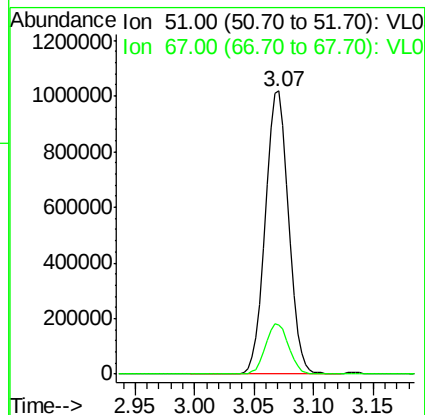
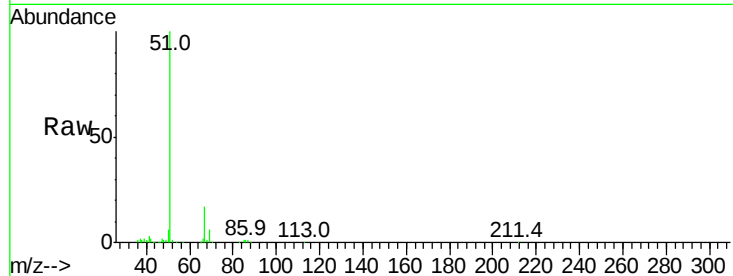
VSTDICCC010

Tgt Ion: 51 Resp: 1382134

Ion Ratio Lower Upper

51 100

67 17.8 13.2 19.8



#4

Chloromethane

Concen: 8.883 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032145.D

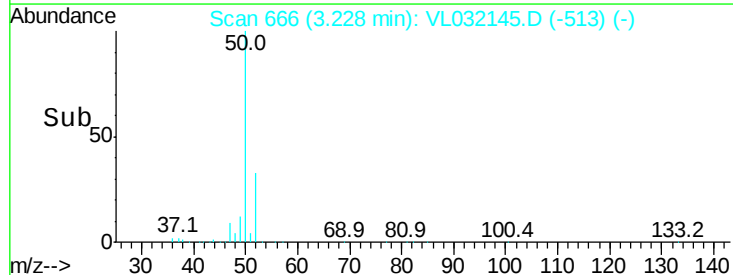
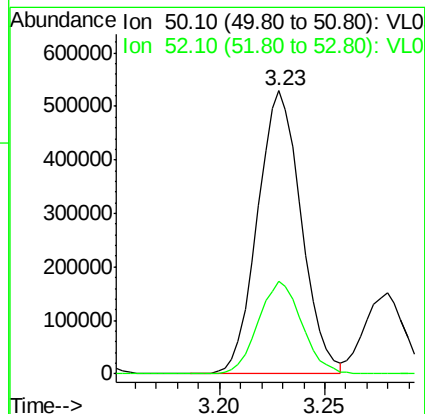
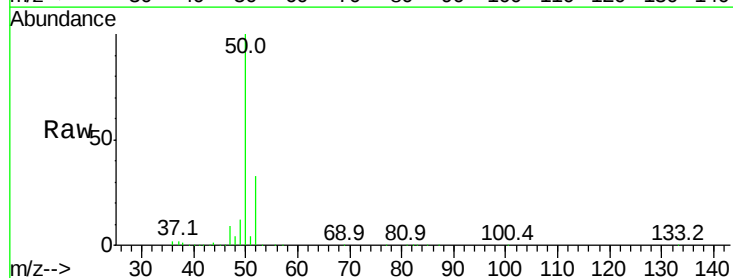
Acq: 29 Jun 2018 18:04

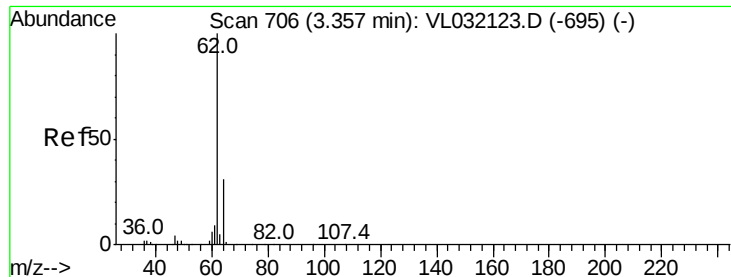
Tgt Ion: 50 Resp: 762556

Ion Ratio Lower Upper

50 100

52 32.7 26.0 39.0





#5

Vinyl Chloride

Concen: 8.412 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

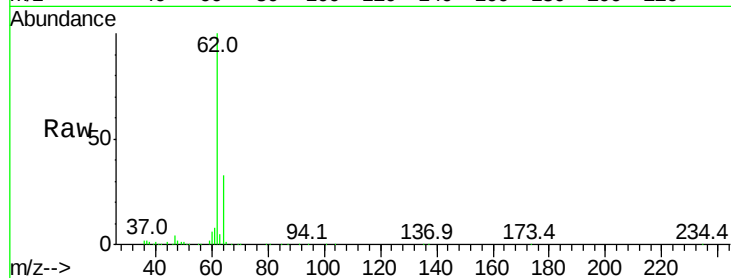
VSTDICCC010

Tgt Ion: 62 Resp: 744857

Ion Ratio Lower Upper

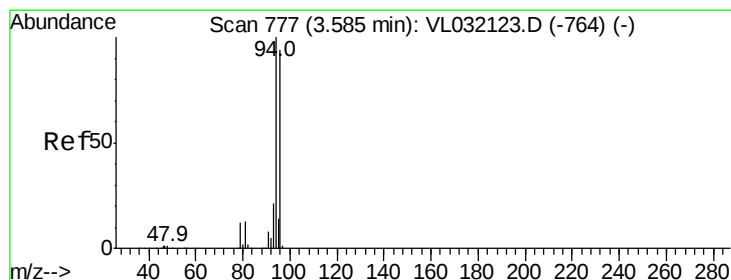
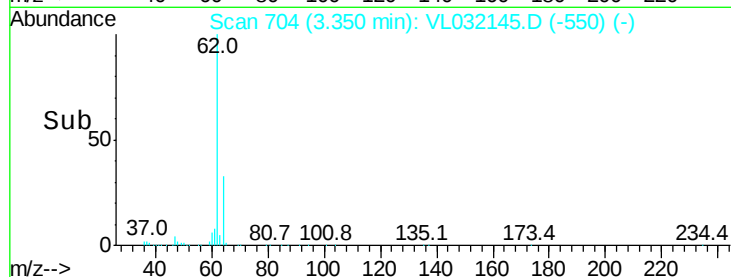
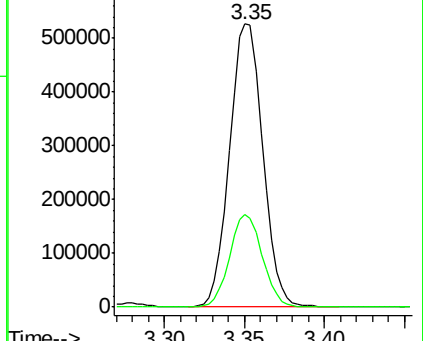
62 100

64 32.8 26.1 39.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.475 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032145.D

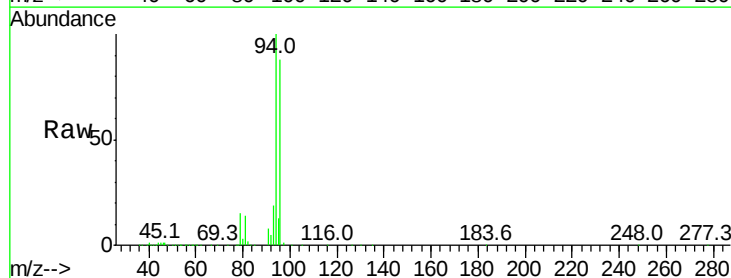
Acq: 29 Jun 2018 18:04

Tgt Ion: 94 Resp: 435725

Ion Ratio Lower Upper

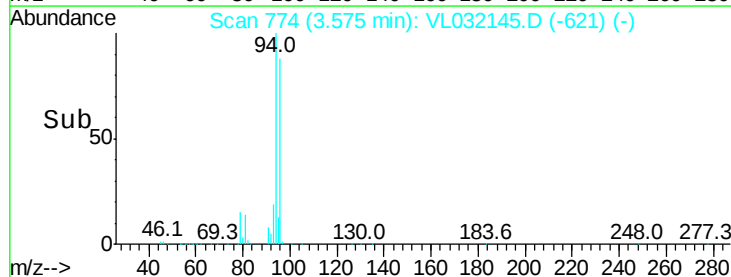
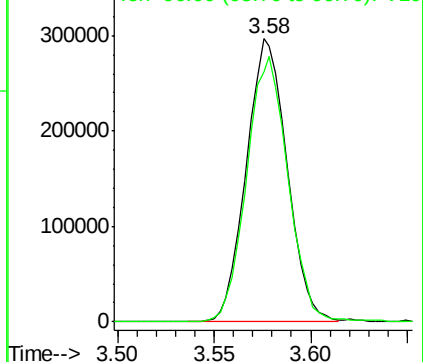
94 100

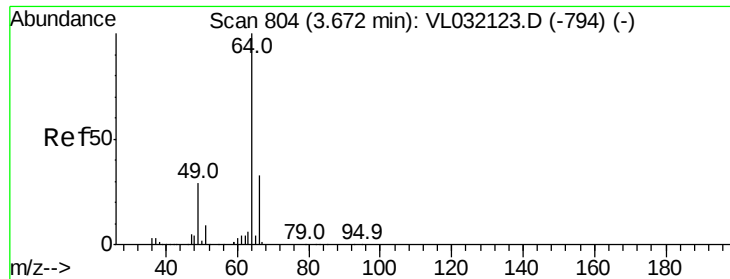
96 88.2 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.116 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

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ClientSampleId :

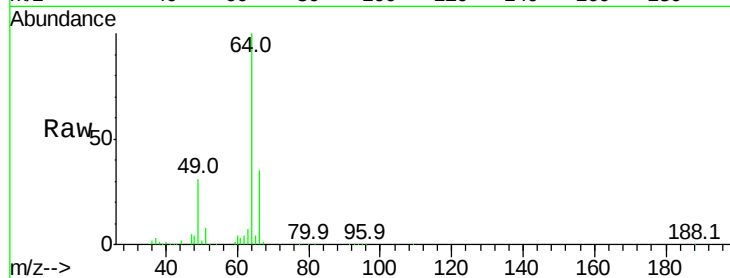
VSTDICCC010

Tgt Ion: 64 Resp: 266400

Ion Ratio Lower Upper

64 100

66 35.0 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.67

200000

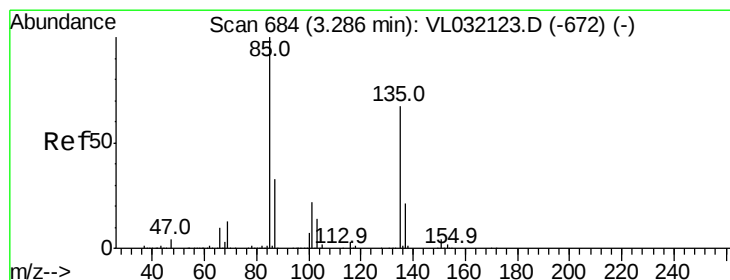
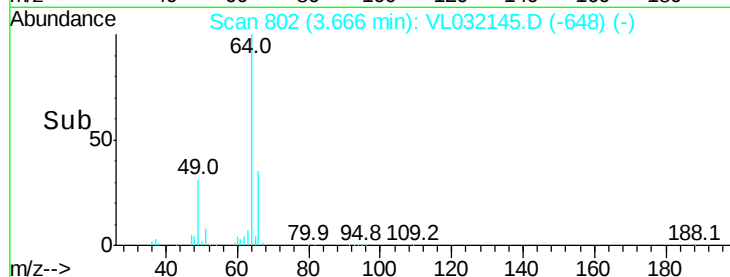
150000

100000

50000

0

Time--> 3.60 3.65 3.70



#8

Dichlorotetrafluoroethane

Concen: 9.080 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032145.D

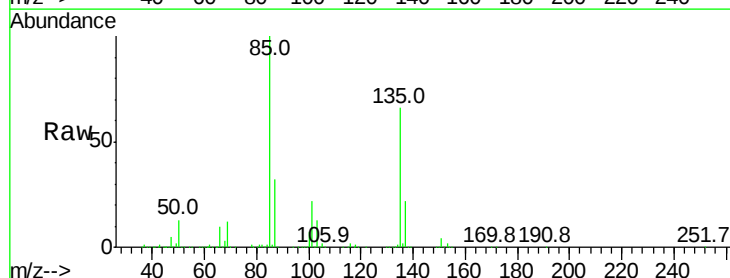
Acq: 29 Jun 2018 18:04

Tgt Ion: 85 Resp: 1620499

Ion Ratio Lower Upper

85 100

135 67.3 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

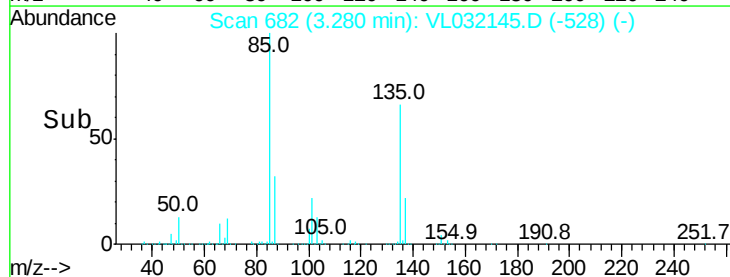
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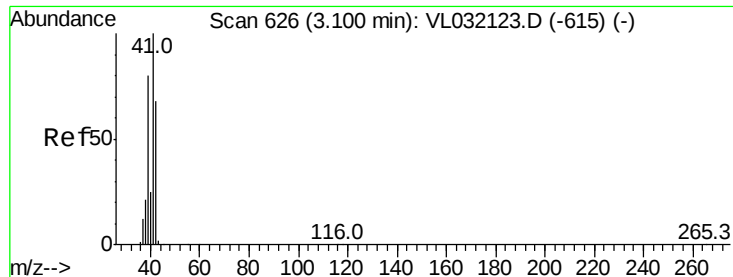
1000000

500000

0

Time--> 3.20 3.25 3.30





#9

Propene

Concen: 8.454 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

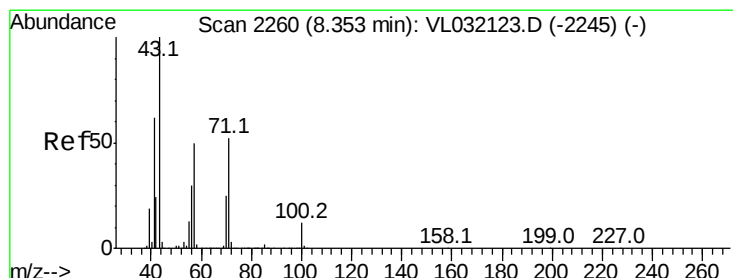
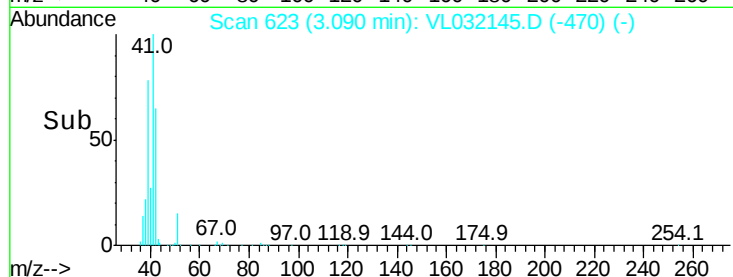
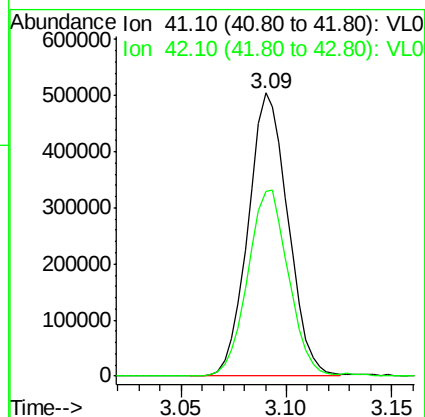
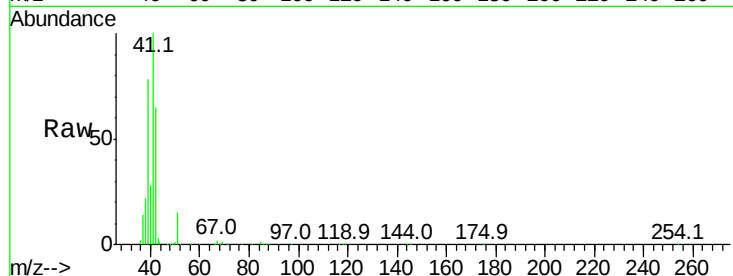
VSTDICCC010

Tgt Ion: 41 Resp: 663575

Ion Ratio Lower Upper

41 100

42 67.9 56.2 84.4



#10

Heptane

Concen: 9.005 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032145.D

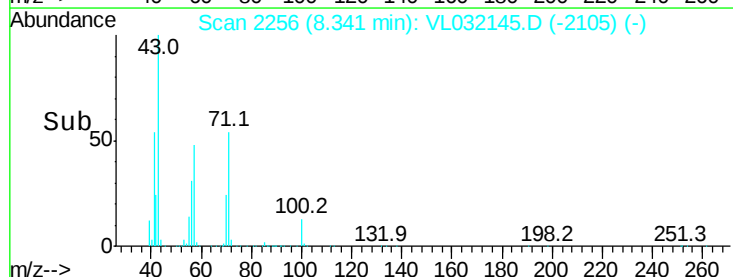
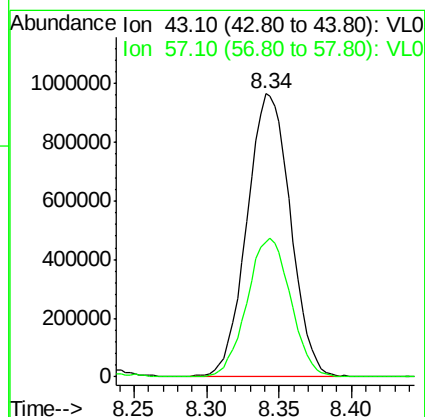
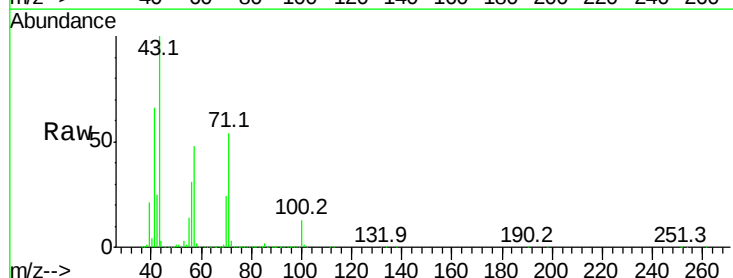
Acq: 29 Jun 2018 18:04

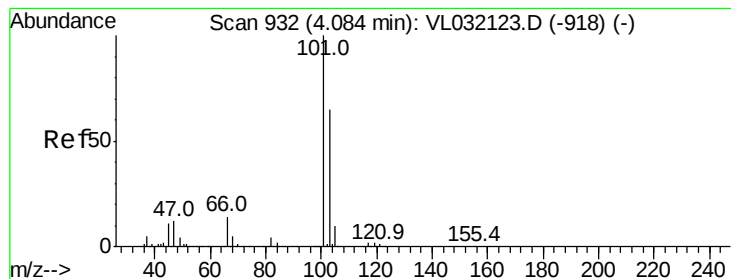
Tgt Ion: 43 Resp: 2003927

Ion Ratio Lower Upper

43 100

57 49.2 39.8 59.8





#11

Trichlorofluoromethane

Concen: 9.667 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

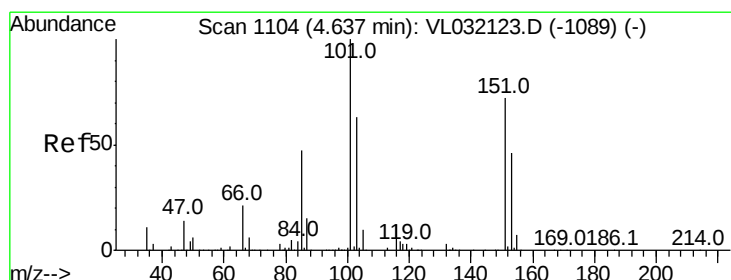
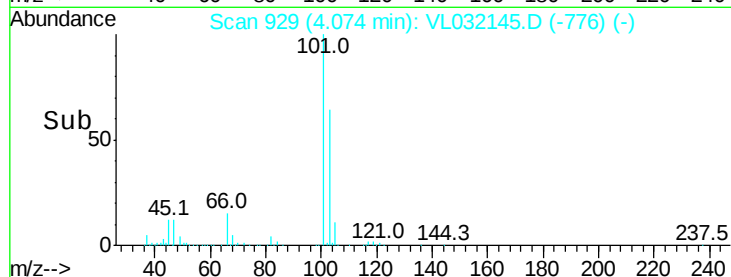
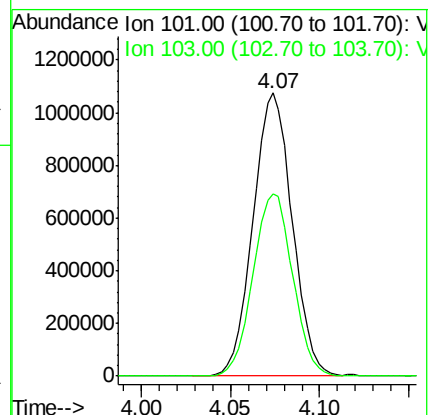
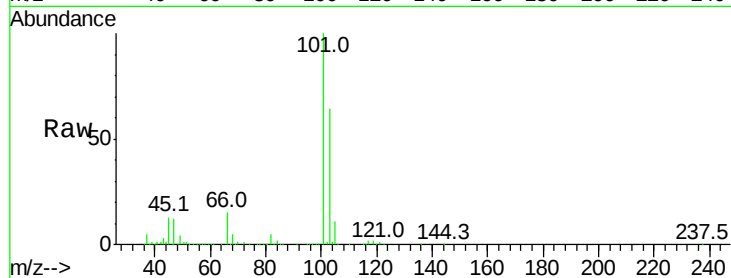
VSTDICCC010

Tgt Ion:101 Resp: 1652345

Ion Ratio Lower Upper

101 100

103 64.4 51.4 77.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.123 ppbv

RT: 4.63 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VL032145.D

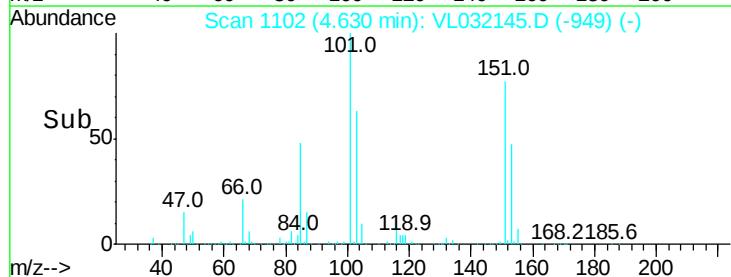
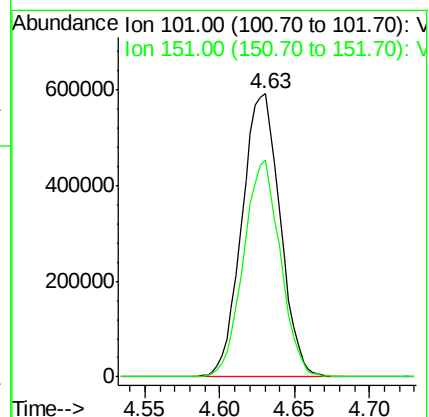
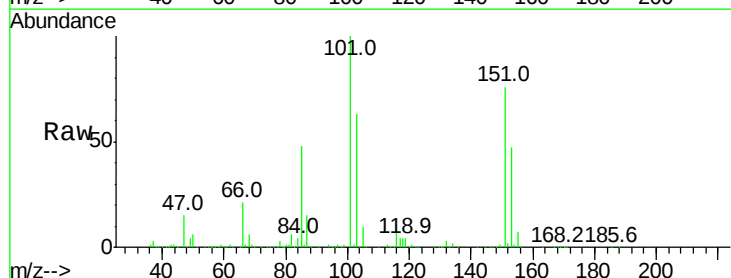
Acq: 29 Jun 2018 18:04

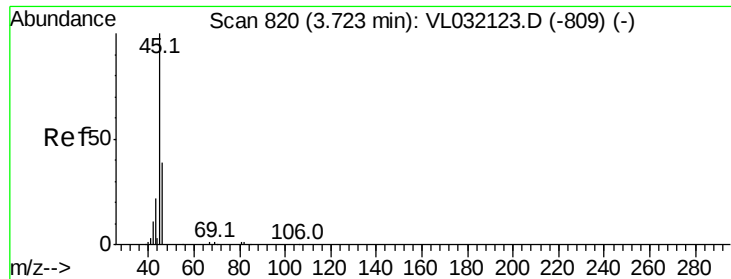
Tgt Ion:101 Resp: 1055505

Ion Ratio Lower Upper

101 100

151 73.9 58.8 88.2





#13

Ethanol

Concen: 7.248 ppbv

RT: 3.71 min Scan# 816

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

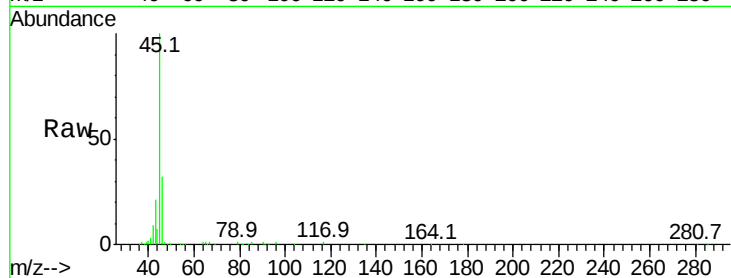
VSTDICCC010

Tgt Ion: 45 Resp: 171346

Ion Ratio Lower Upper

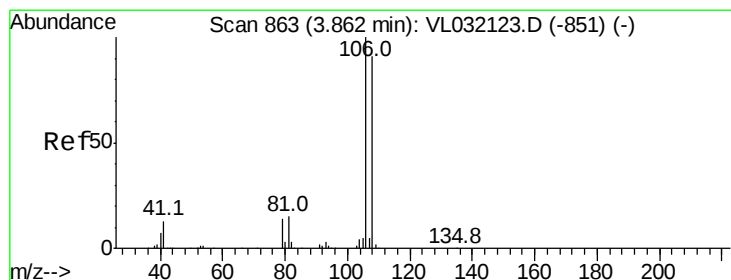
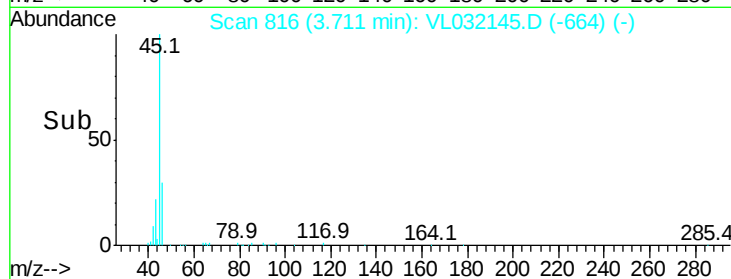
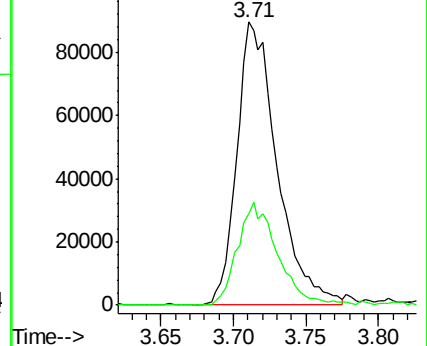
45 100

46 36.4 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.330 ppbv

RT: 3.86 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

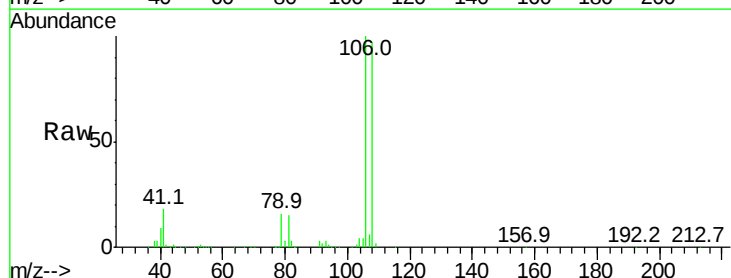
Tgt Ion: 108 Resp: 529287

Ion Ratio Lower Upper

108 100

106 106.5 86.3 129.5

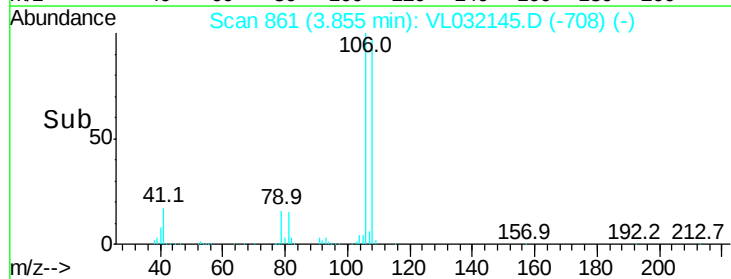
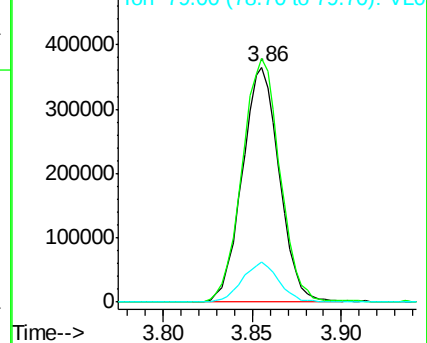
79 17.0 12.7 19.1

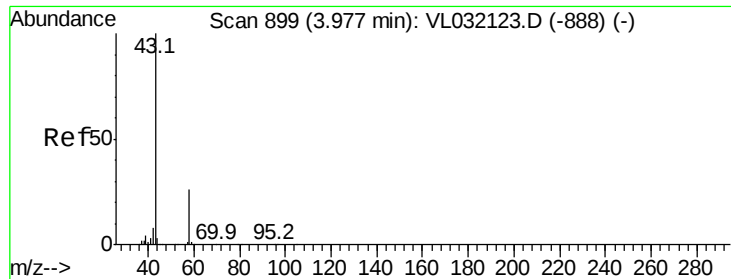


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.895 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

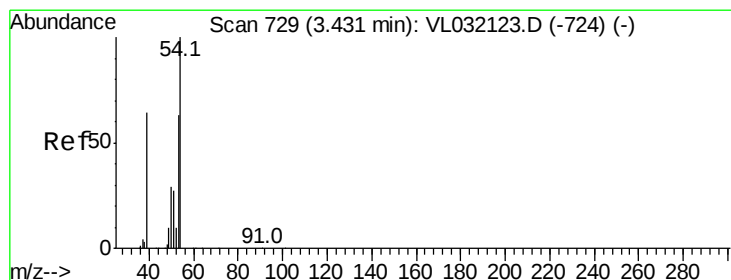
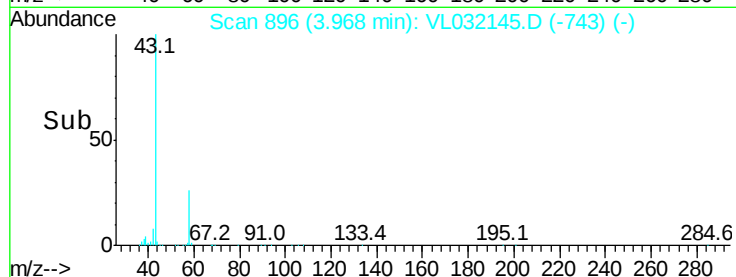
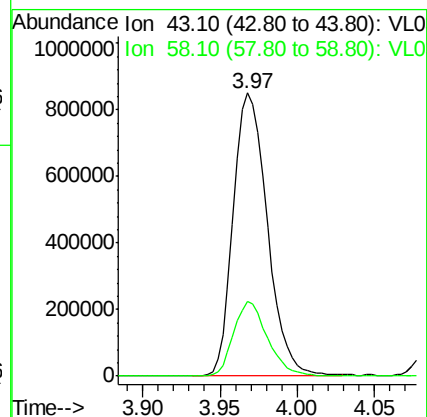
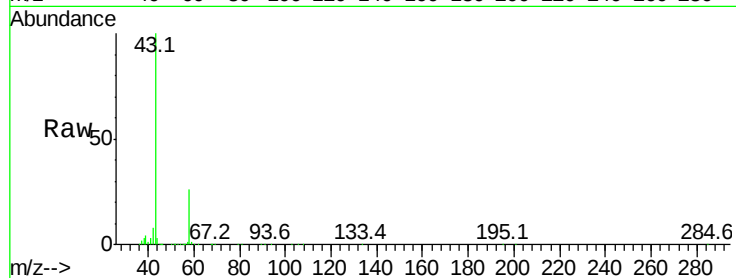
VSTDICCC010

Tgt Ion: 43 Resp: 1297948

Ion Ratio Lower Upper

43 100

58 26.4 21.4 32.0



#16

1,3-Butadiene

Concen: 8.772 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032145.D

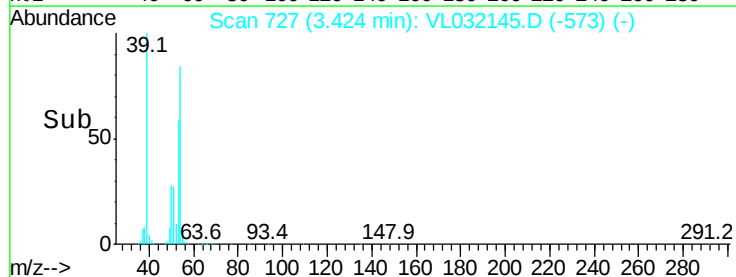
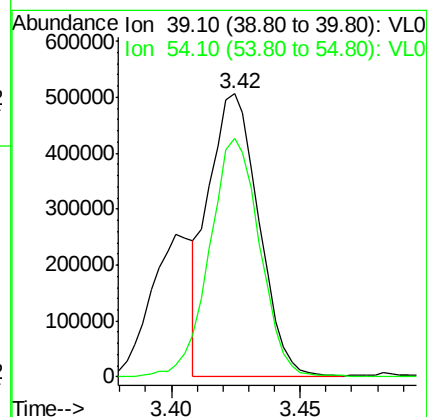
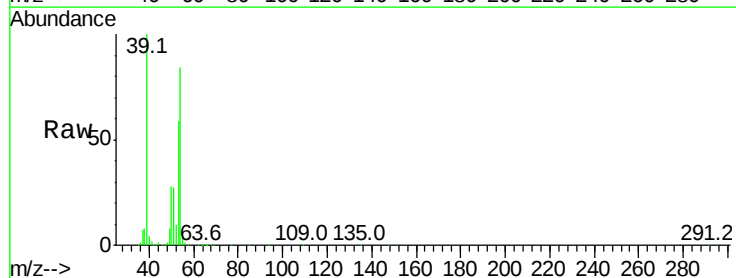
Acq: 29 Jun 2018 18:04

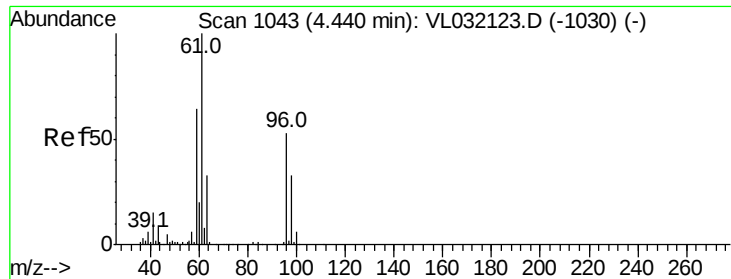
Tgt Ion: 39 Resp: 677282

Ion Ratio Lower Upper

39 100

54 85.6 75.8 113.6

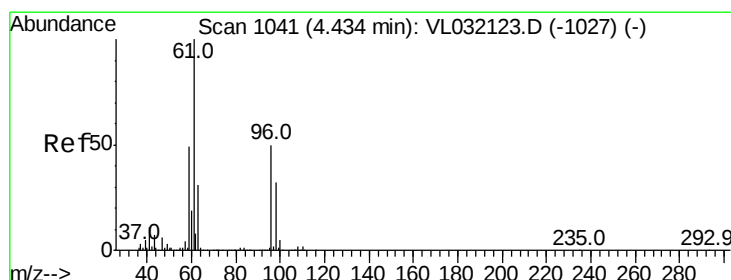
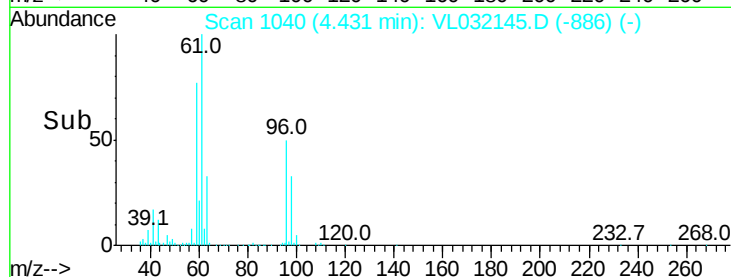
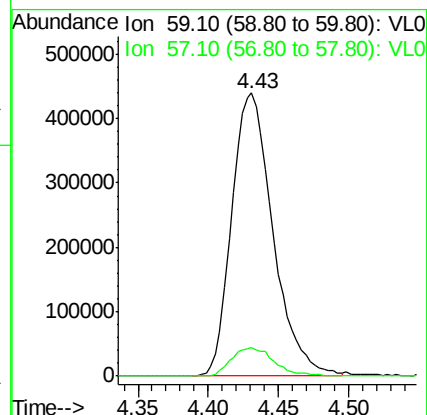
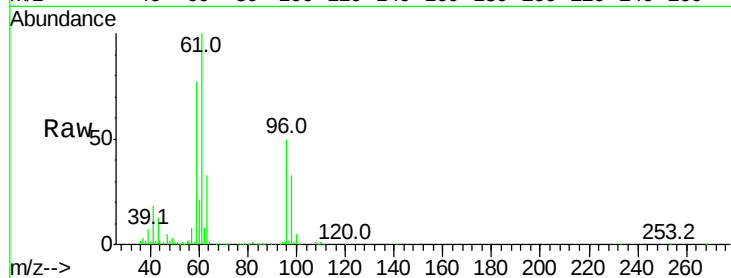




#17  
tert-Butyl alcohol  
Concen: 9.106 ppbv  
RT: 4.43 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

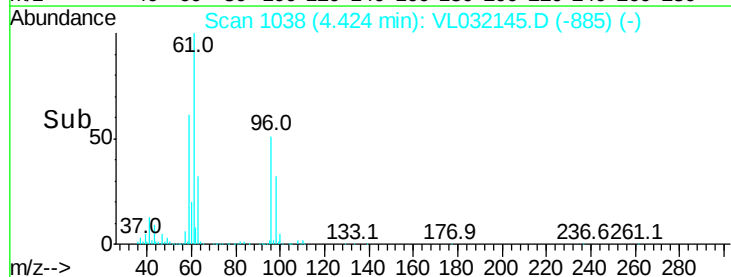
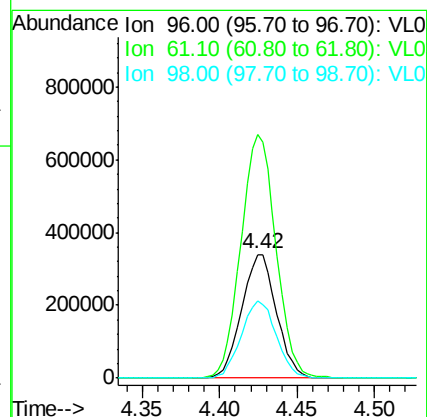
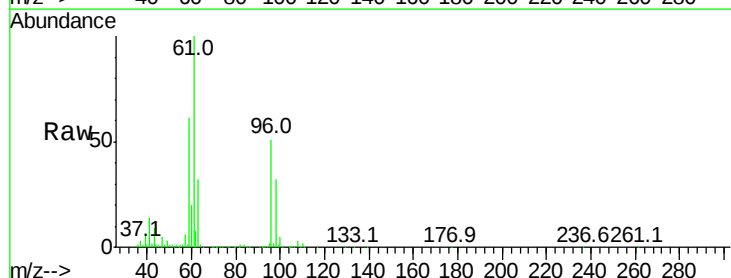
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

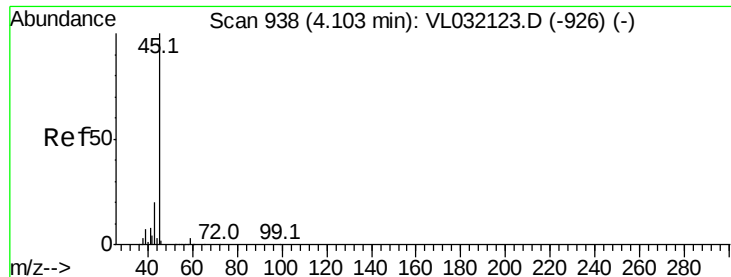
Tgt Ion: 59 Resp: 900056  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.2 12.2



#18  
1,1-Dichloroethene  
Concen: 9.333 ppbv  
RT: 4.42 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 96 Resp: 530295  
Ion Ratio Lower Upper  
96 100  
61 197.2 154.1 231.1  
98 62.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.956 ppbv

RT: 4.09 min Scan# 935

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

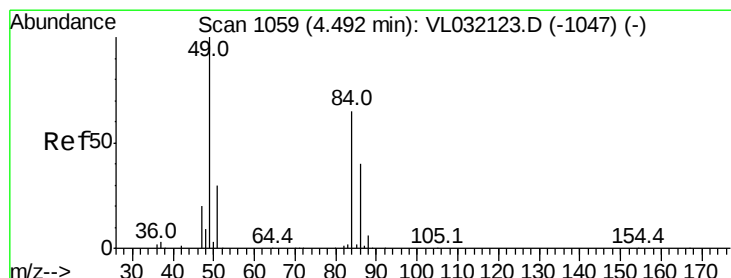
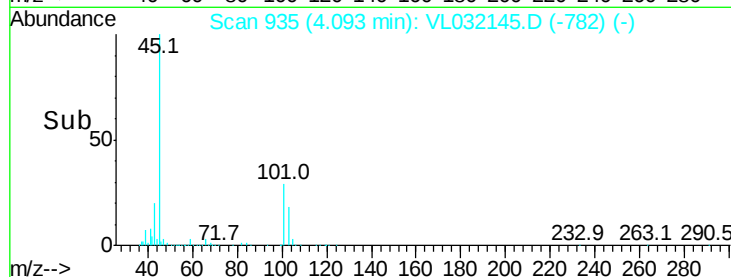
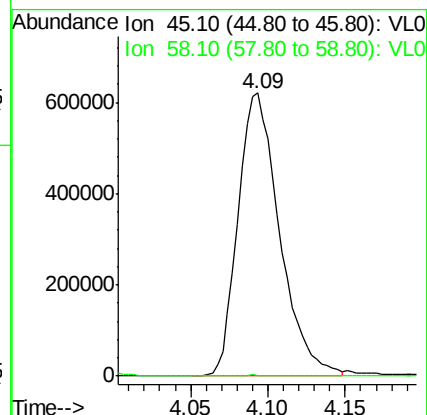
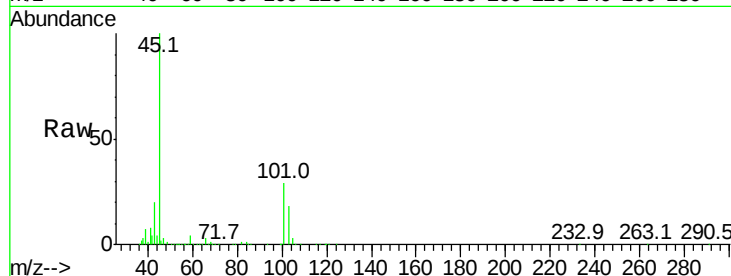
VSTDICCC010

Tgt Ion: 45 Resp: 1155747

Ion Ratio Lower Upper

45 100

58 29.7 29.4 44.0



#20

Methylene Chloride

Concen: 8.212 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Tgt Ion: 84 Resp: 455999

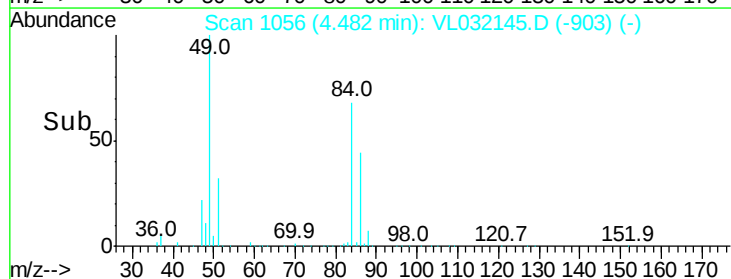
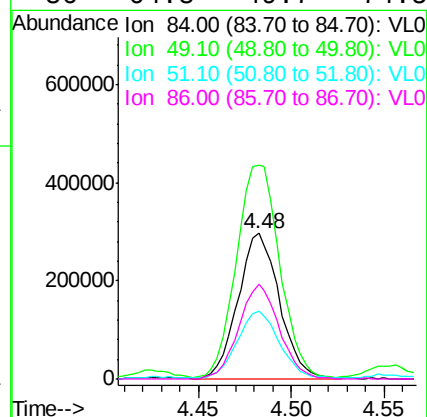
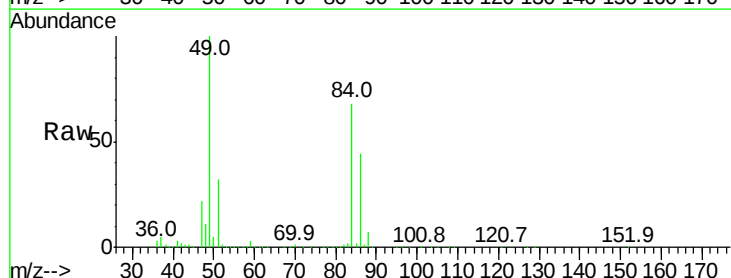
Ion Ratio Lower Upper

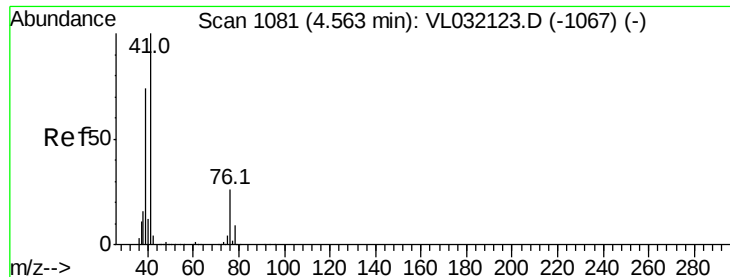
84 100

49 146.6 119.6 179.4

51 46.4 36.3 54.5

86 64.8 49.7 74.5

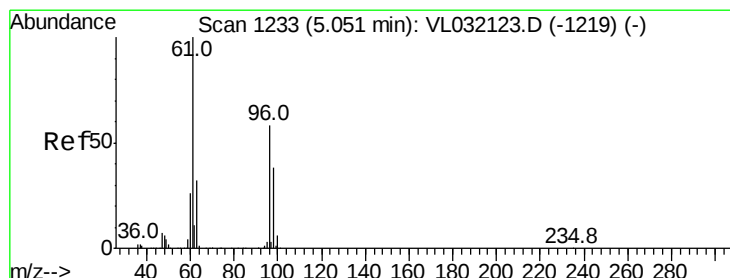
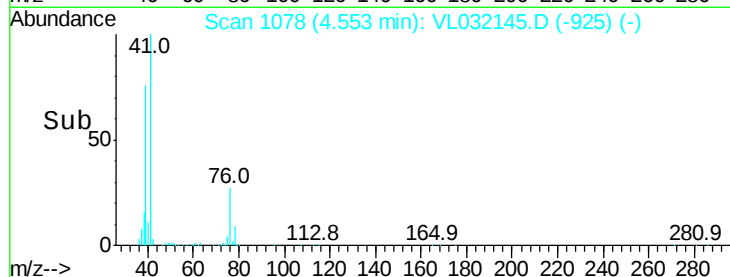
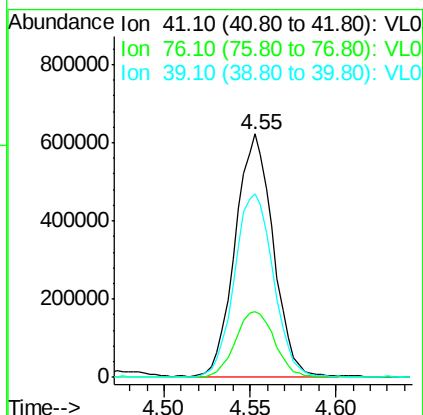
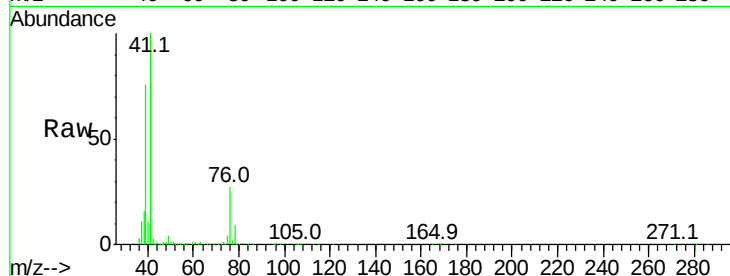




#21  
 Allyl Chloride  
 Concen: 9.320 ppbv  
 RT: 4.55 min Scan# 1078  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

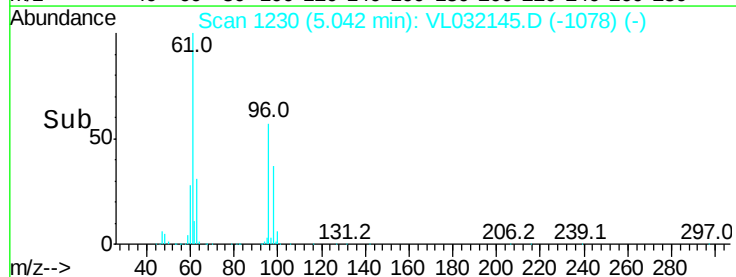
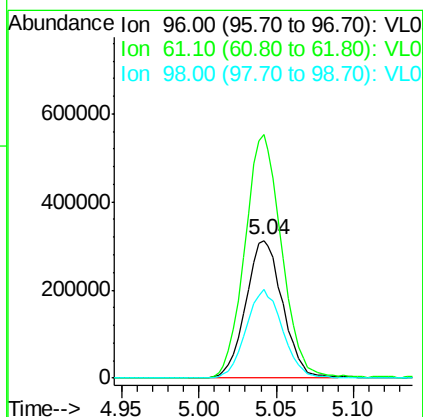
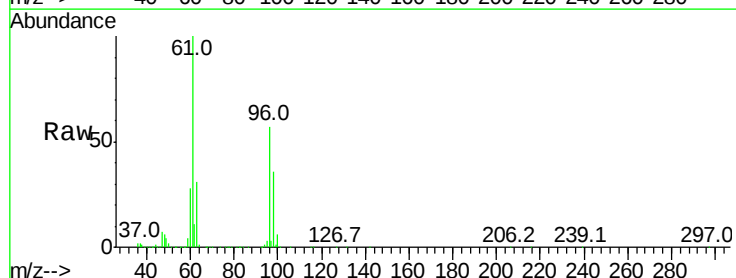
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

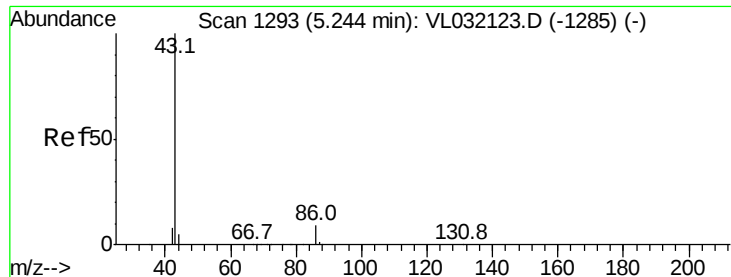
Tgt Ion: 41 Resp: 950793  
 Ion Ratio Lower Upper  
 41 100  
 76 28.2 22.5 33.7  
 39 78.1 60.5 90.7



#22  
 trans-1,2-Dichloroethene  
 Concen: 8.956 ppbv  
 RT: 5.04 min Scan# 1230  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 96 Resp: 517921  
 Ion Ratio Lower Upper  
 96 100  
 61 177.0 135.2 202.8  
 98 64.2 49.7 74.5



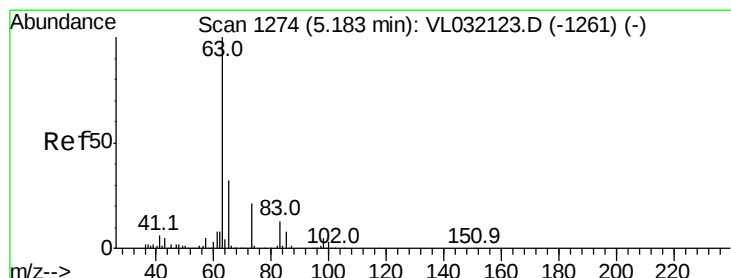
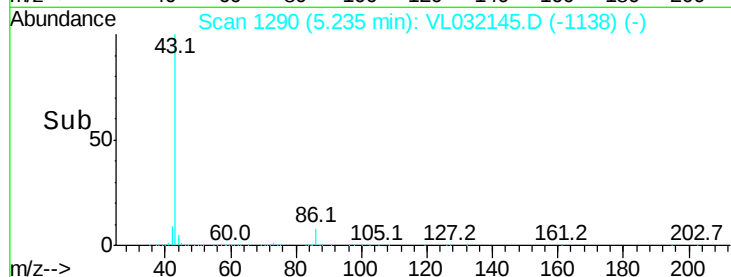
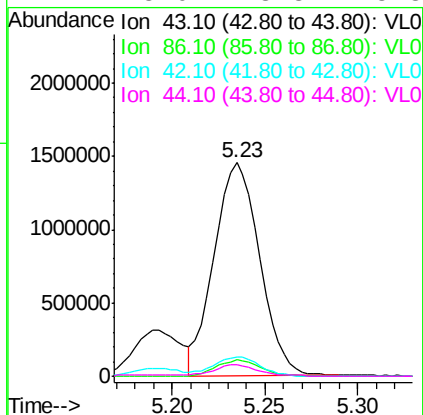
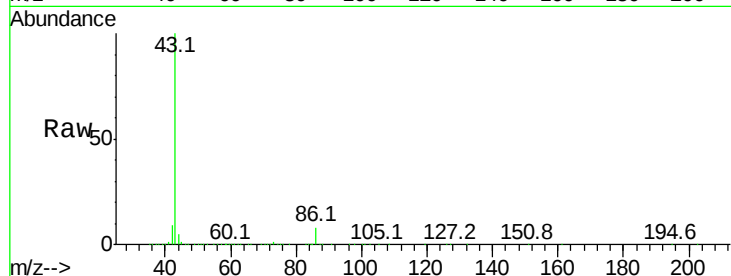


#23  
 Vinyl Acetate  
 Concen: 9.871 ppbv  
 RT: 5.23 min Scan# 1290  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 43 Resp: 2469943

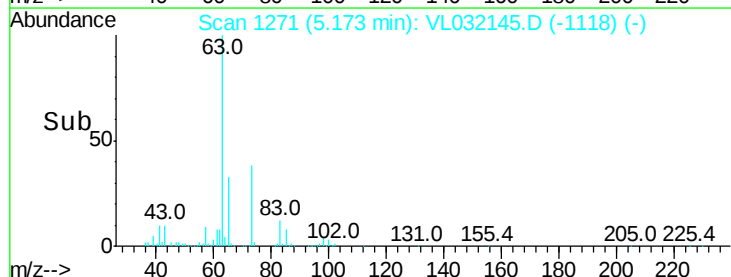
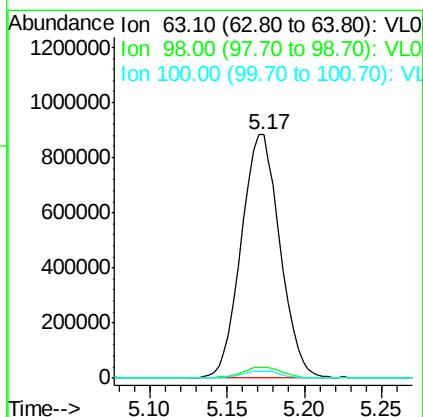
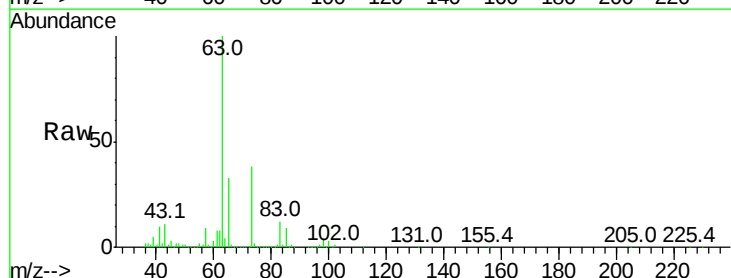
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.8   | 6.2   | 9.4   |
| 42  | 9.2   | 6.9   | 10.3  |
| 44  | 5.0   | 3.8   | 5.8   |

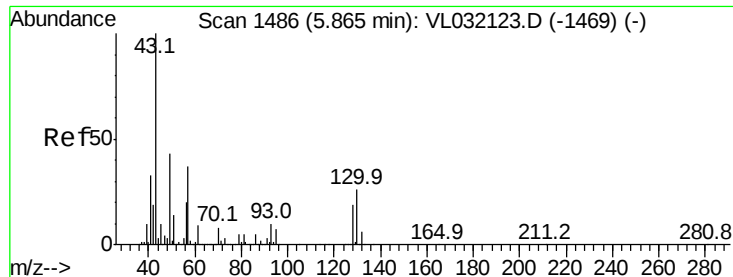


#24  
 1,1-Dichloroethane  
 Concen: 8.182 ppbv  
 RT: 5.17 min Scan# 1271  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 63 Resp: 1540979

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.4   | 2.4   | 7.2   |
| 100 | 2.8   | 1.7   | 5.0   |



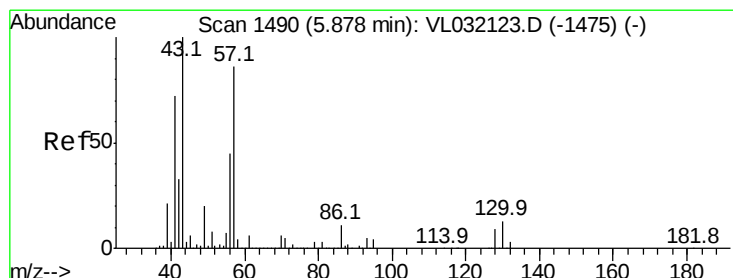
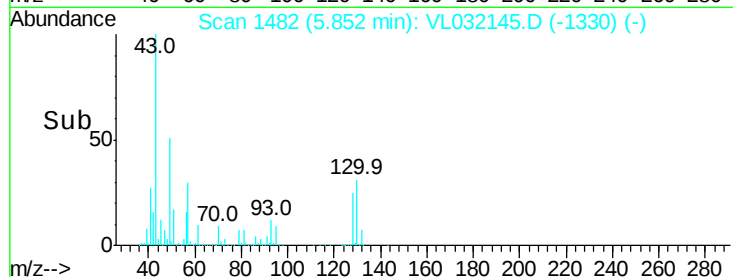
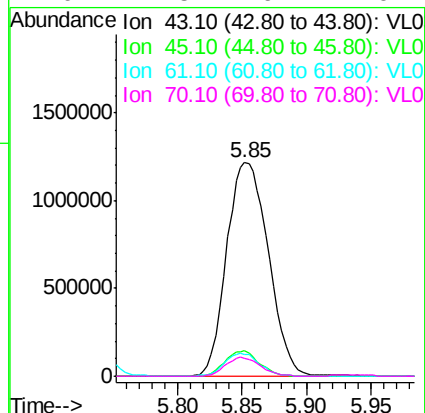
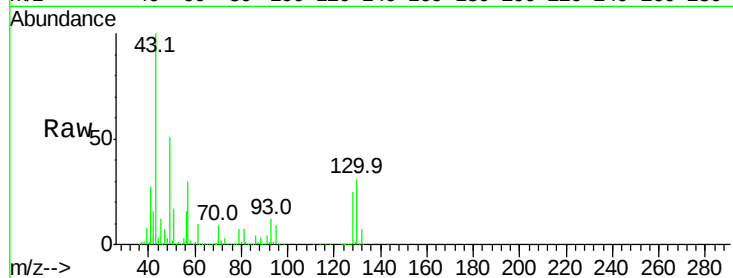


#25  
Ethyl Acetate  
Concen: 7.555 ppbv  
RT: 5.85 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 2723638

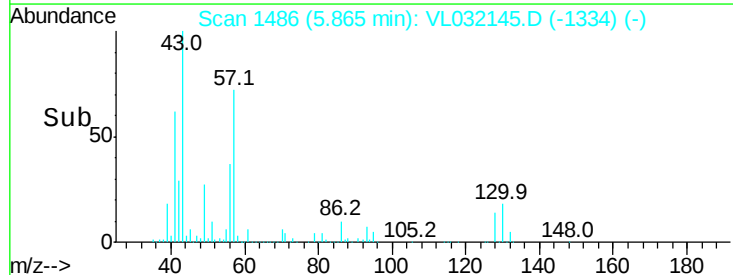
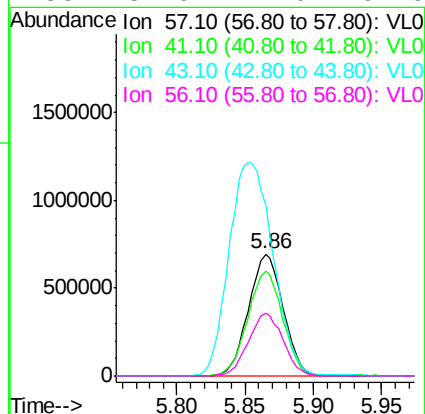
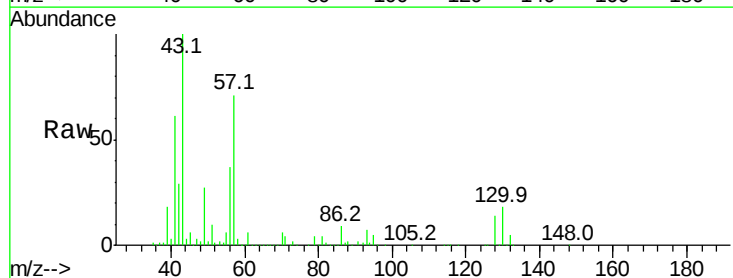
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 7.8   | 11.8  |
| 61  | 9.3   | 7.4   | 11.0  |
| 70  | 7.5   | 6.1   | 9.1   |

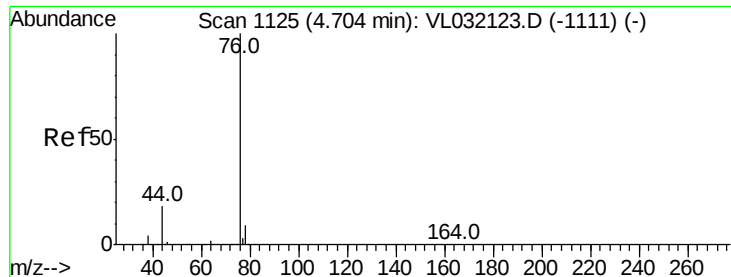


#26  
Hexane  
Concen: 7.647 ppbv  
RT: 5.86 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 57 Resp: 1222252

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 87.5  | 68.6  | 103.0 |
| 43  | 223.8 | 168.6 | 252.8 |
| 56  | 51.9  | 41.0  | 61.6  |





#27

Carbon Disulfide

Concen: 8.518 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

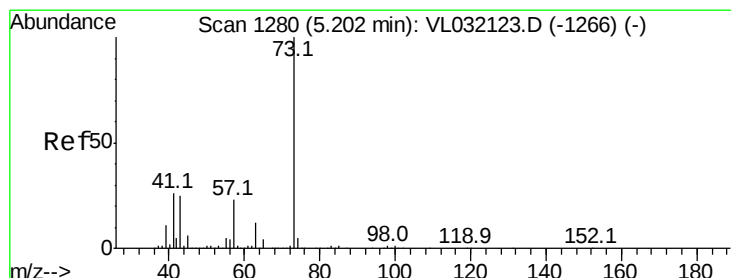
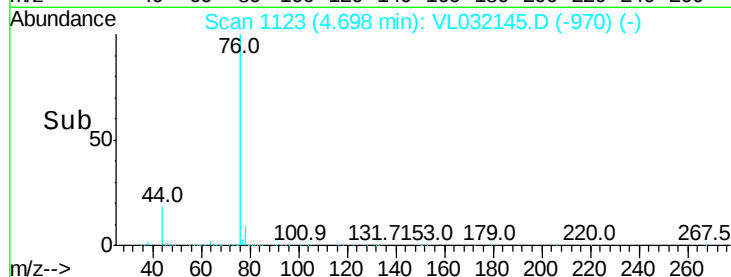
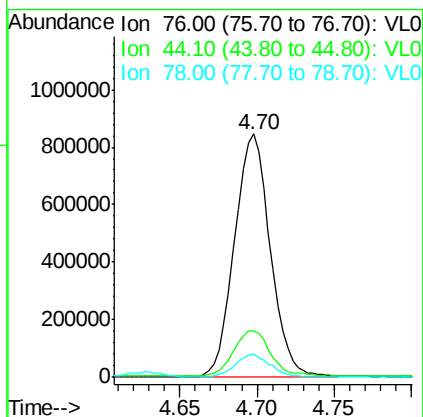
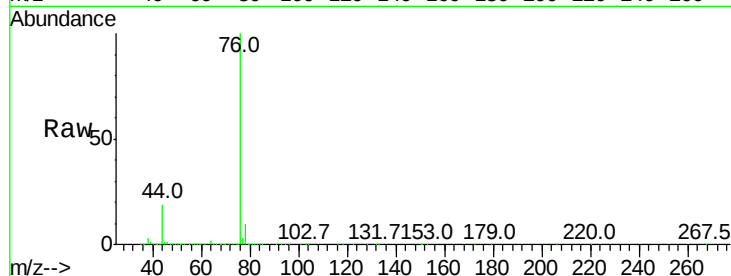
Tgt Ion: 76 Resp: 1361101

Ion Ratio Lower Upper

76 100

44 19.2 15.1 22.7

78 9.2 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 11.241 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032145.D

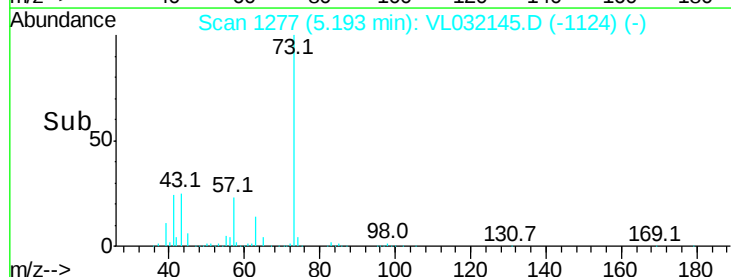
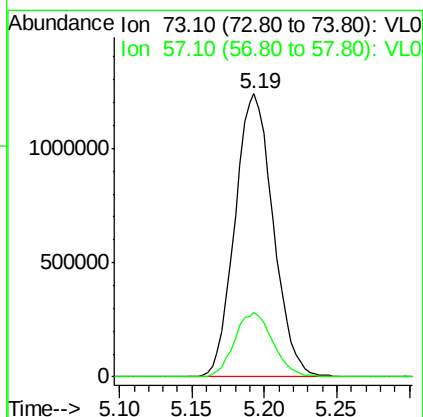
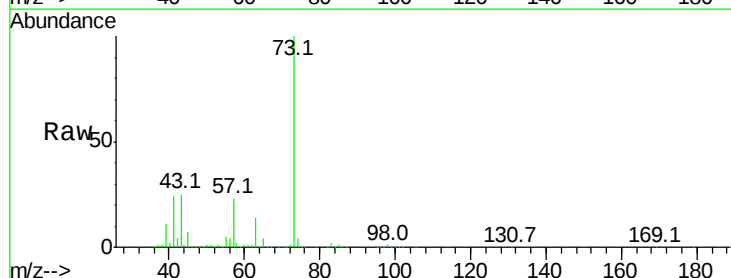
Acq: 29 Jun 2018 18:04

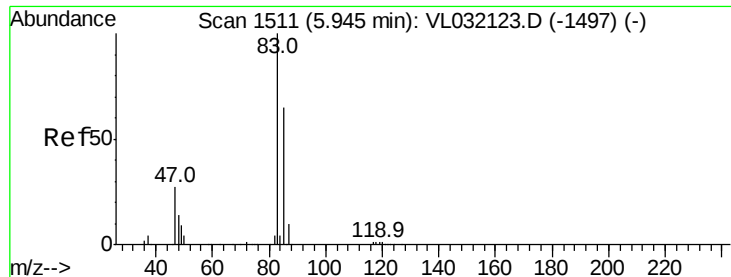
Tgt Ion: 73 Resp: 2272487

Ion Ratio Lower Upper

73 100

57 23.0 18.6 27.8

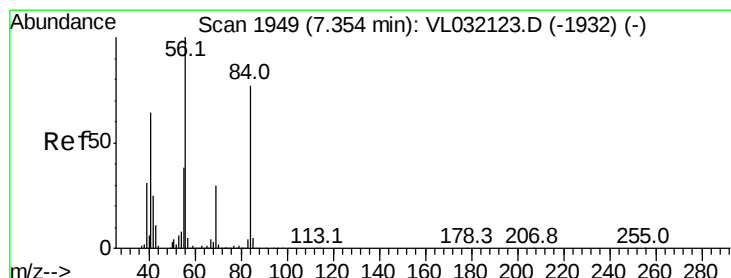
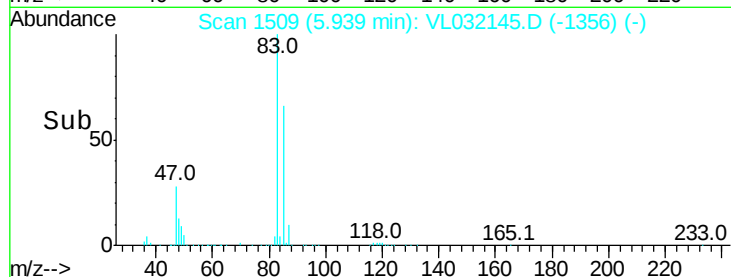
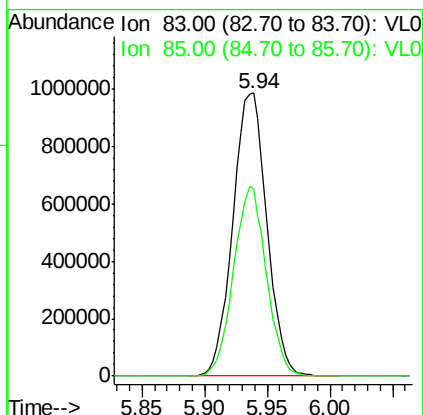
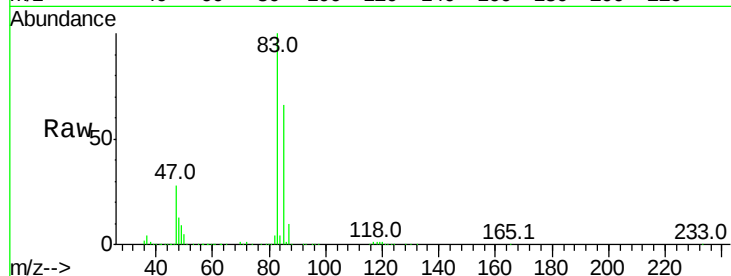




#29  
Chloroform  
Concen: 8.777 ppbv  
RT: 5.94 min Scan# 1509  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

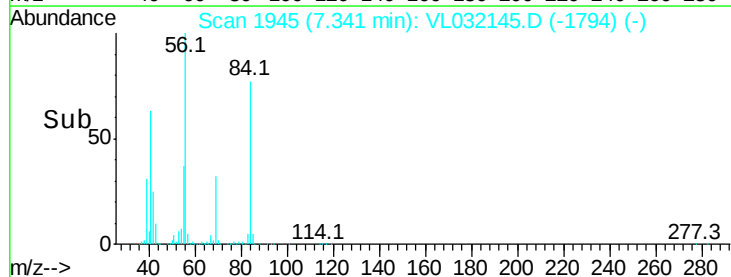
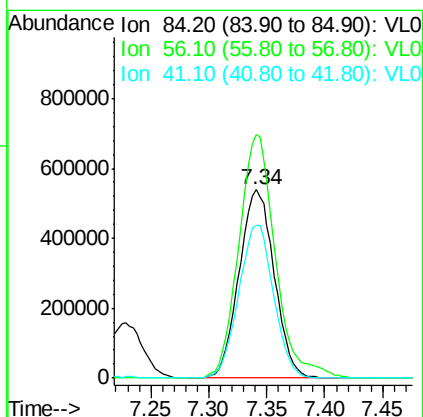
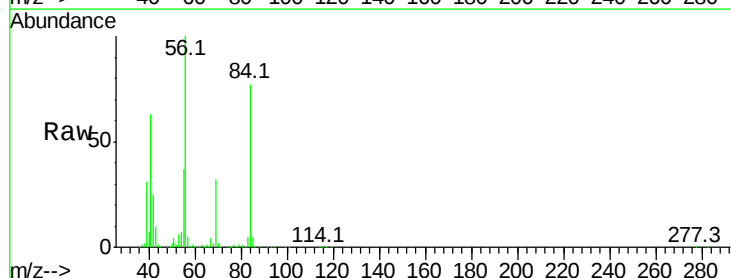
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

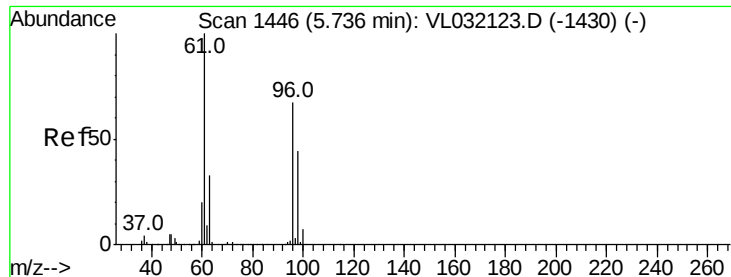
Tgt Ion: 83 Resp: 1851946  
Ion Ratio Lower Upper  
83 100  
85 66.0 51.6 77.4



#30  
Cyclohexane  
Concen: 8.637 ppbv  
RT: 7.34 min Scan# 1945  
Delta R.T. -0.02 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 84 Resp: 1136782  
Ion Ratio Lower Upper  
84 100  
56 134.6 109.1 163.7  
41 80.6 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 8.989 ppbv

RT: 5.73 min Scan# 1443

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

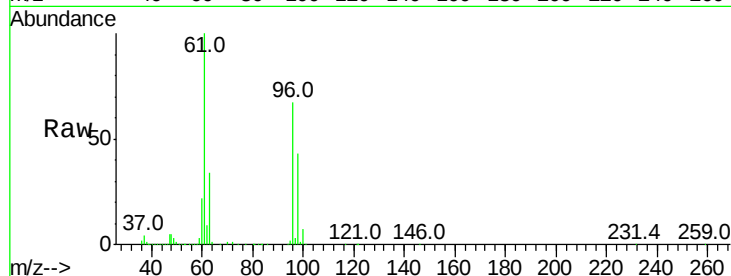
Tgt Ion: 61 Resp: 1278664

Ion Ratio Lower Upper

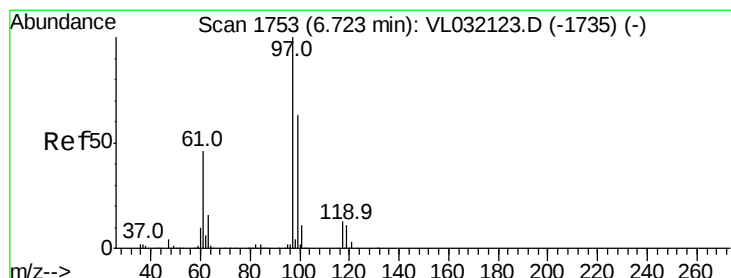
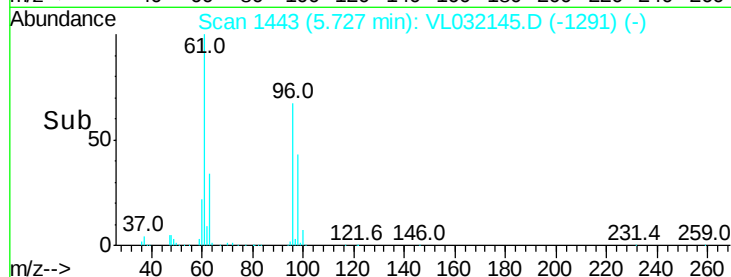
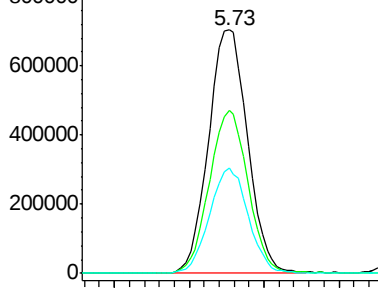
61 100

96 67.0 54.2 81.4

98 43.3 34.6 52.0



Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 8.567 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

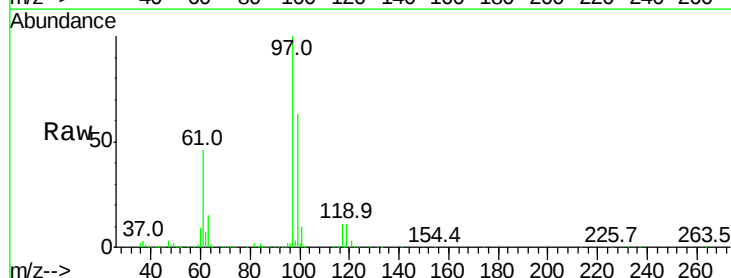
Tgt Ion: 97 Resp: 1884236

Ion Ratio Lower Upper

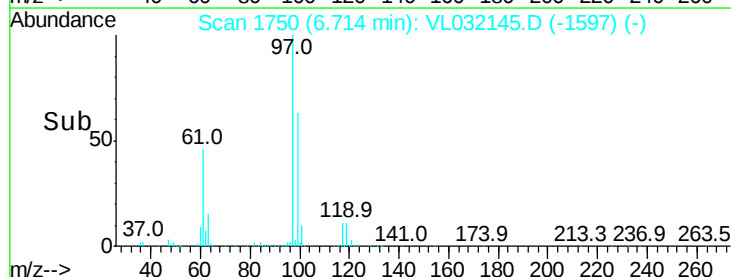
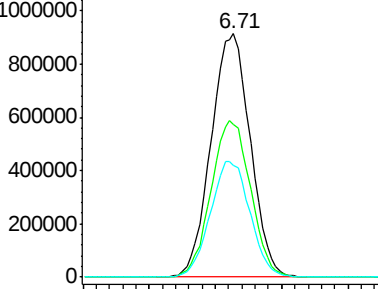
97 100

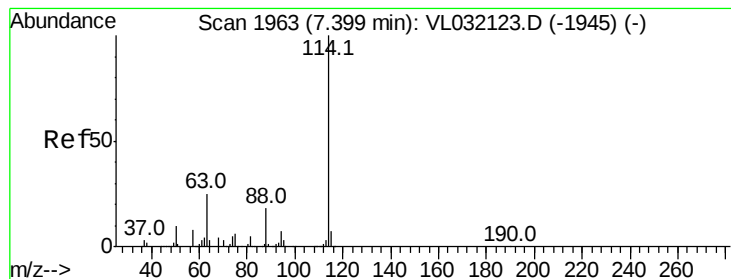
99 64.7 51.3 76.9

61 48.2 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.39 min Scan# 1959

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

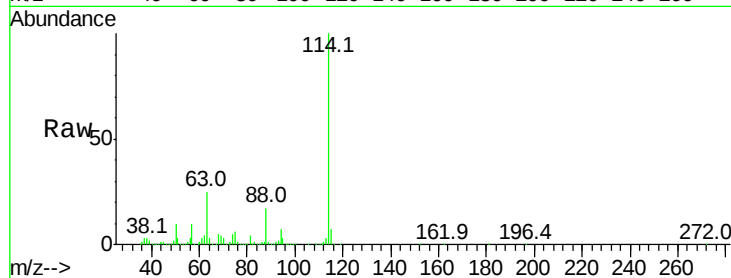
Tgt Ion:114 Resp: 3164677

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.9  | 19.1  | 28.7  |
| 88  | 17.9  | 13.9  | 20.9  |

114 100

63 24.9 19.1 28.7

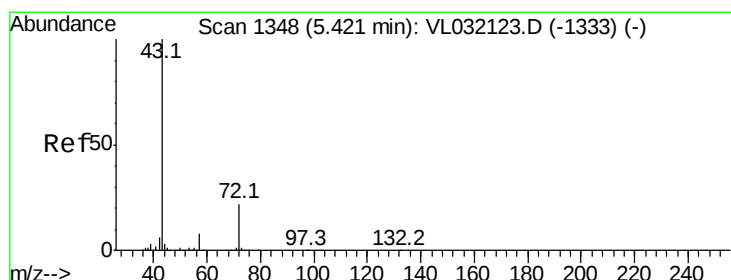
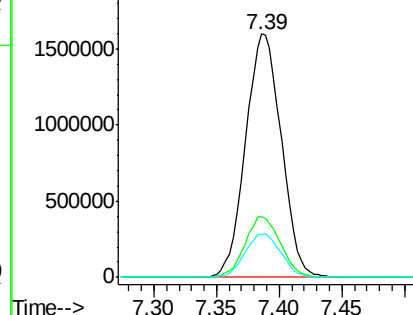
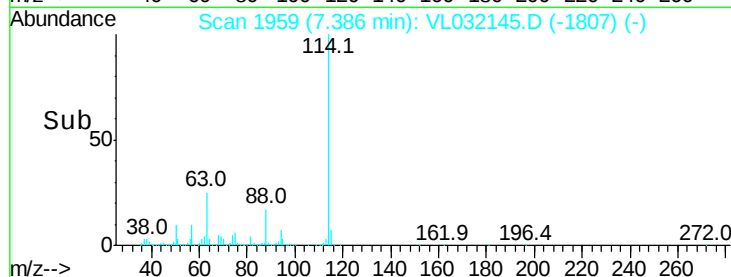
88 17.9 13.9 20.9



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: 7.467 ppbv

RT: 5.41 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VL032145.D

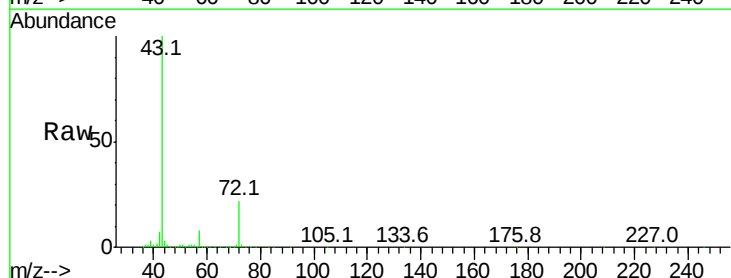
Acq: 29 Jun 2018 18:04

Tgt Ion: 43 Resp: 1918260

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.6  | 18.4  | 27.6  |

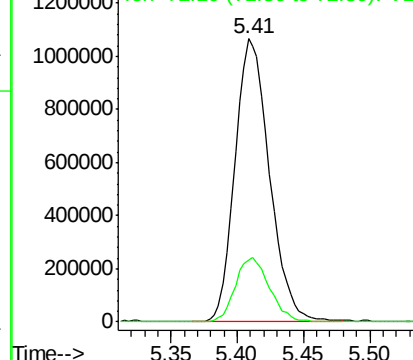
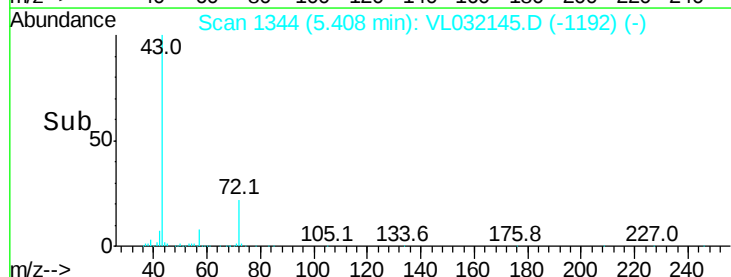
43 100

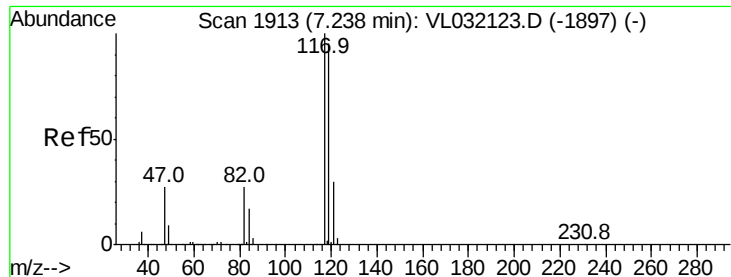
72 22.6 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.717 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

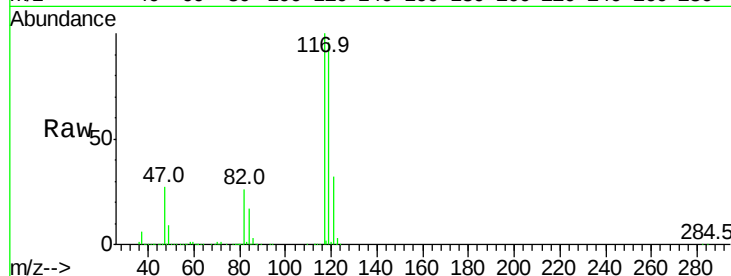
Tgt Ion:117 Resp: 1914465

Ion Ratio Lower Upper

117 100

119 96.3 74.8 112.2

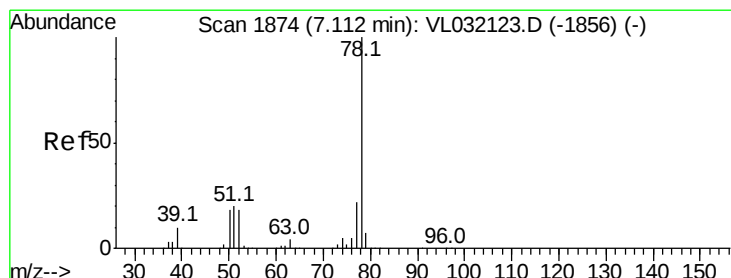
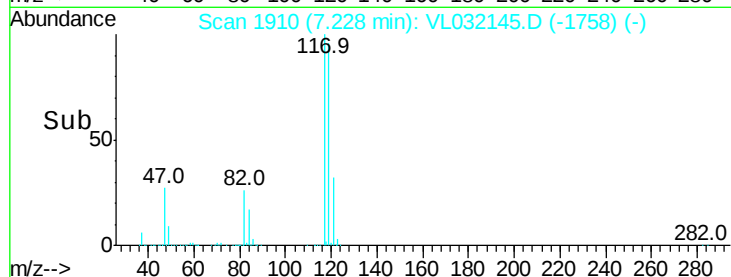
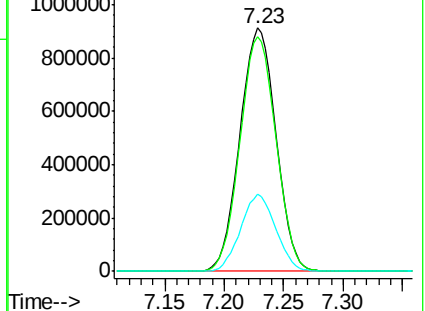
121 31.8 24.0 36.0



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: 7.911 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

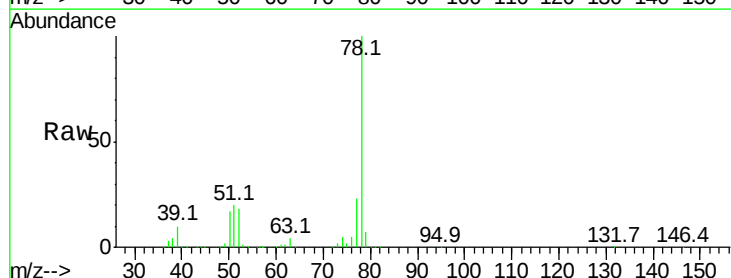
Tgt Ion: 78 Resp: 2714324

Ion Ratio Lower Upper

78 100

77 23.2 17.7 26.5

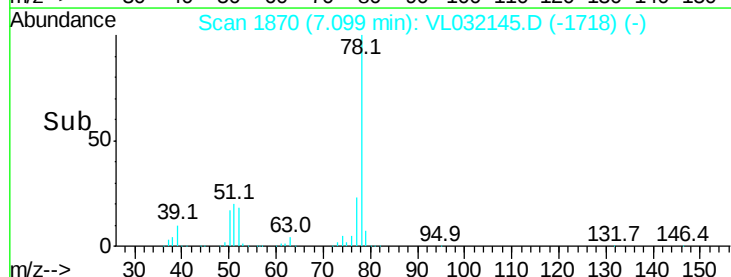
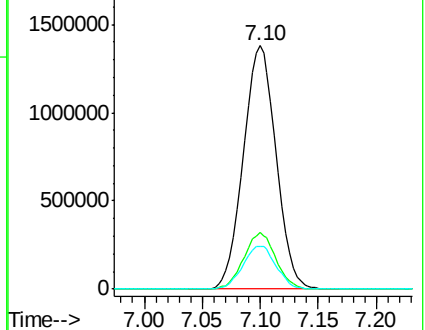
50 17.4 14.0 21.0

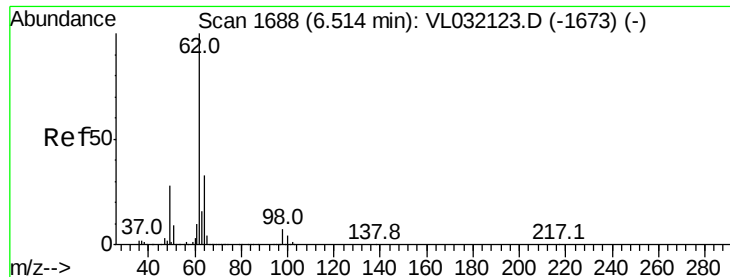


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

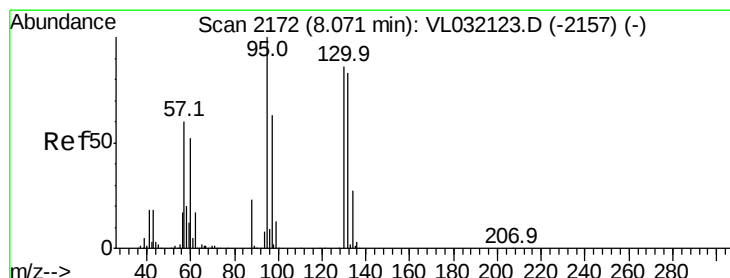
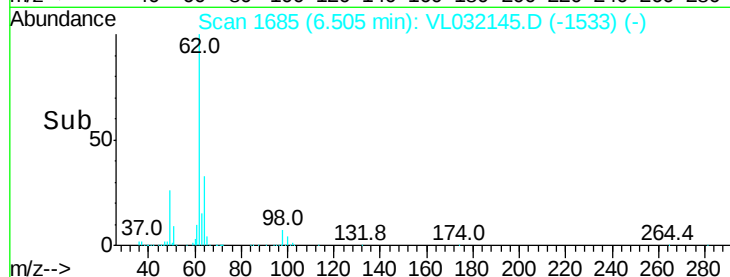
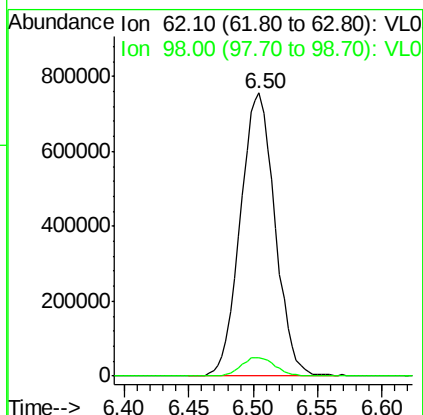
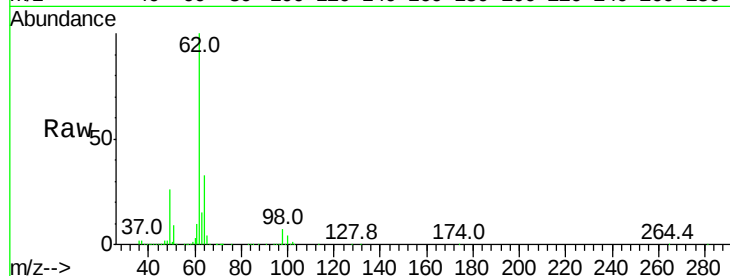




#37  
 1,2-Dichloroethane  
 Concen: 8.014 ppbv  
 RT: 6.50 min Scan# 1685  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

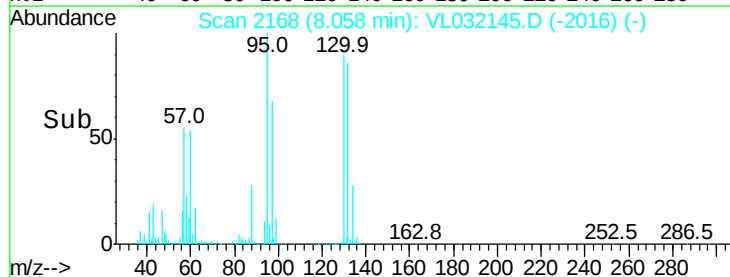
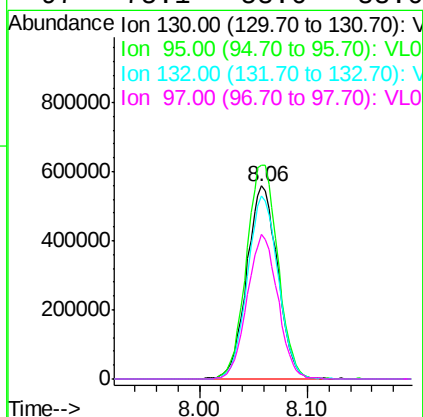
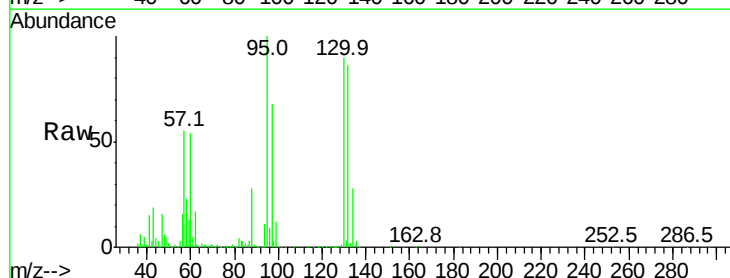
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

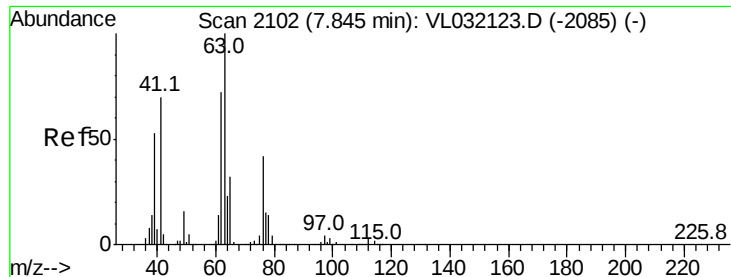
Tgt Ion: 62 Resp: 1414075  
 Ion Ratio Lower Upper  
 62 100  
 98 6.7 5.8 8.6



#38  
 Trichloroethene  
 Concen: 8.418 ppbv  
 RT: 8.06 min Scan# 2168  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 130 Resp: 1113672  
 Ion Ratio Lower Upper  
 130 100  
 95 110.8 88.1 132.1  
 132 95.0 74.6 112.0  
 97 75.1 58.6 88.0





#39

1,2-Dichloropropane

Concen: 9.029 ppbv

RT: 7.84 min Scan# 2099

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

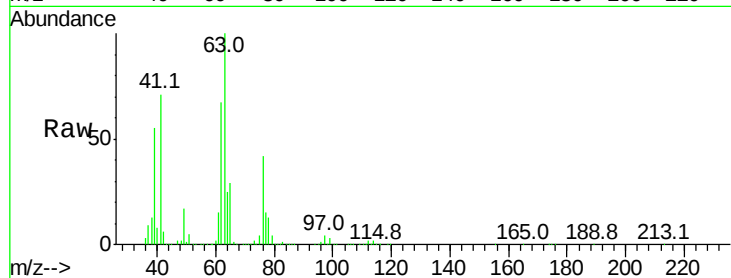
Tgt Ion: 63 Resp: 1137603

Ion Ratio Lower Upper

63 100

41 70.8 53.3 79.9

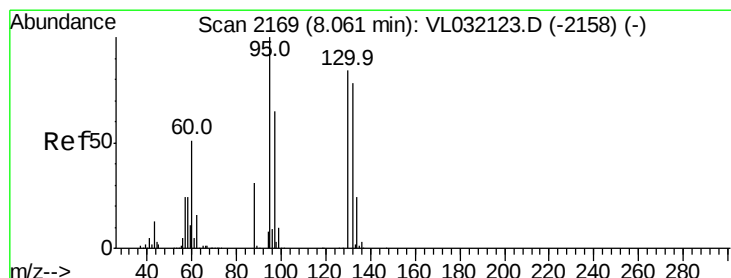
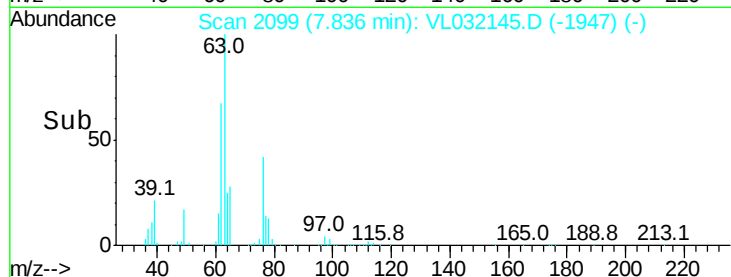
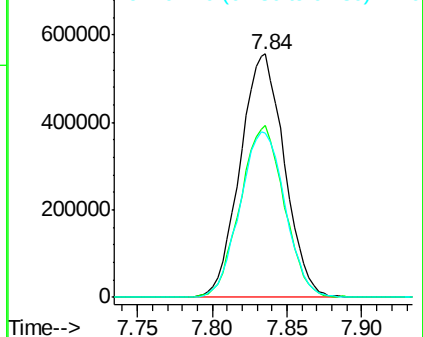
62 67.2 54.8 82.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 7.944 ppbv

RT: 8.05 min Scan# 2166

Delta R.T. -0.02 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Tgt Ion: 88 Resp: 466472

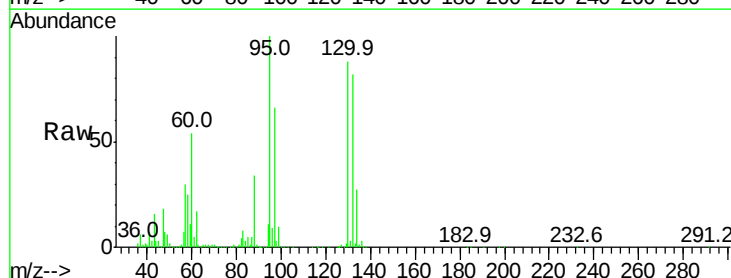
Ion Ratio Lower Upper

88 100

58 124.9 47.4 71.0#

43 246.2 0.0 0.0#

57 1102.4 0.0 0.0#

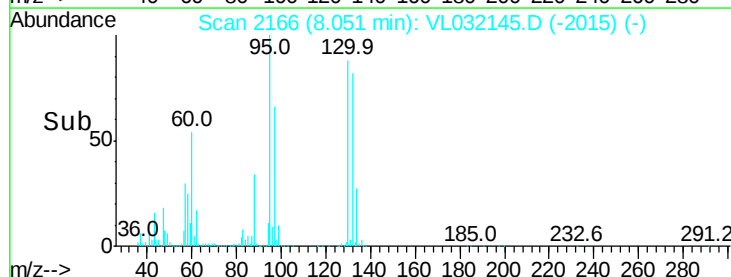
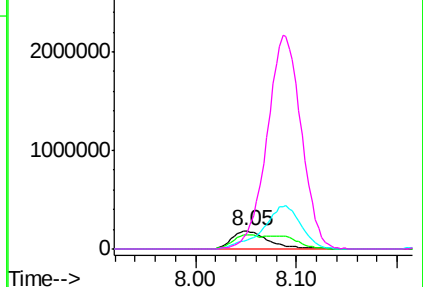


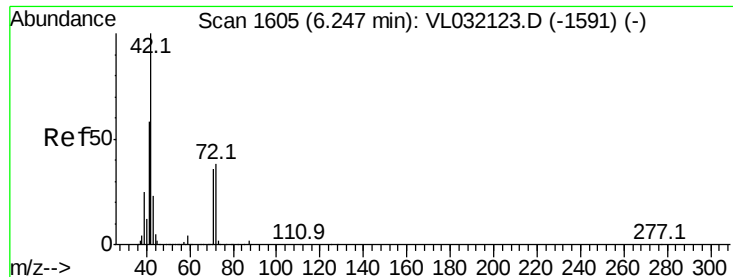
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

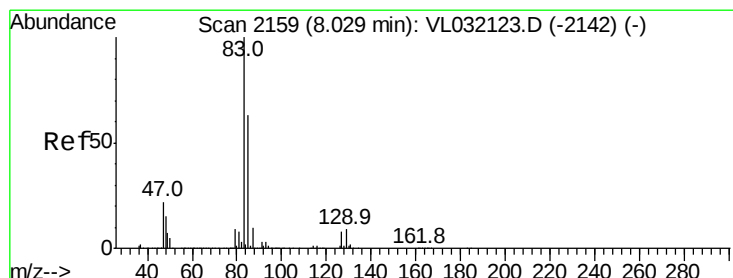
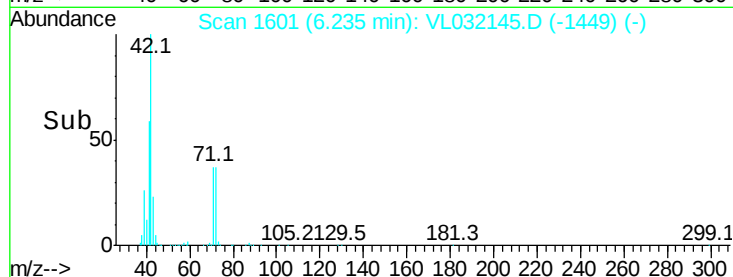
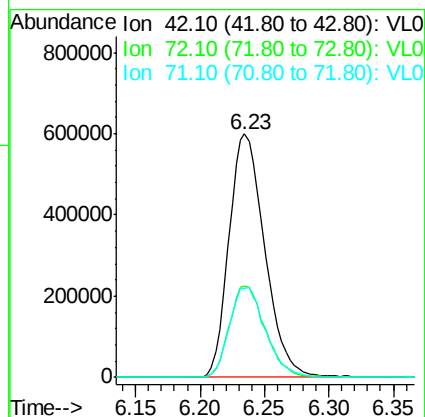
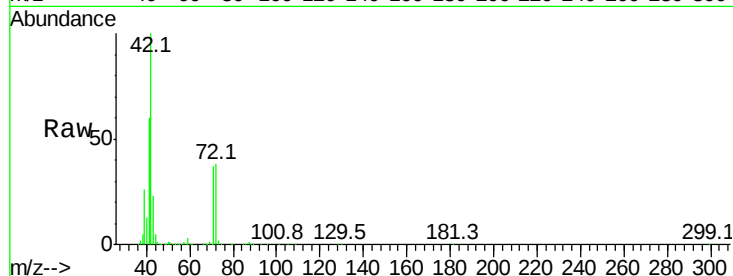




#41  
Tetrahydrofuran  
Concen: 7.508 ppbv  
RT: 6.23 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

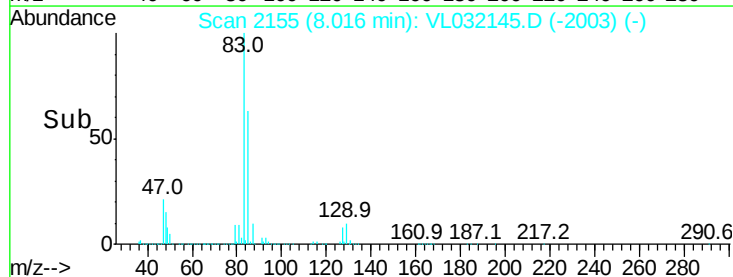
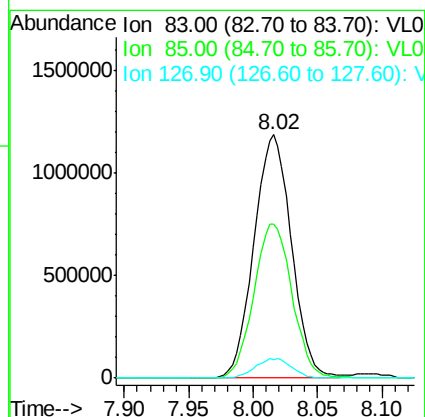
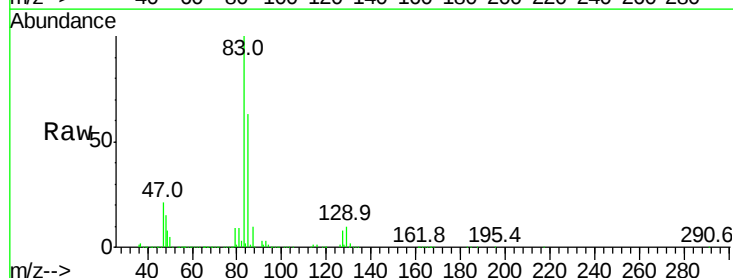
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

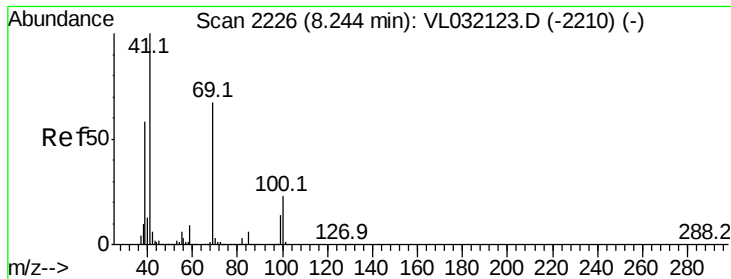
Tgt Ion: 42 Resp: 1152023  
Ion Ratio Lower Upper  
42 100  
72 38.0 31.1 46.7  
71 37.4 29.5 44.3



#42  
Bromodichloromethane  
Concen: 10.102 ppbv  
RT: 8.02 min Scan# 2155  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 83 Resp: 2411030  
Ion Ratio Lower Upper  
83 100  
85 63.0 52.6 79.0  
127 7.6 6.5 9.7

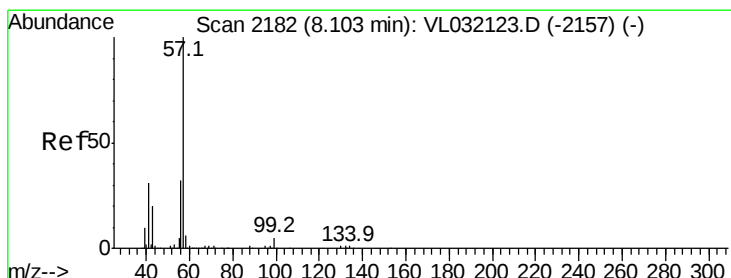
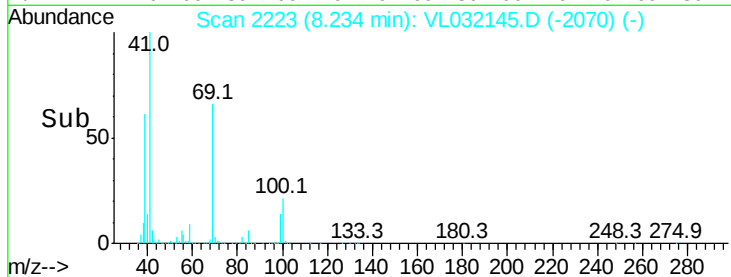
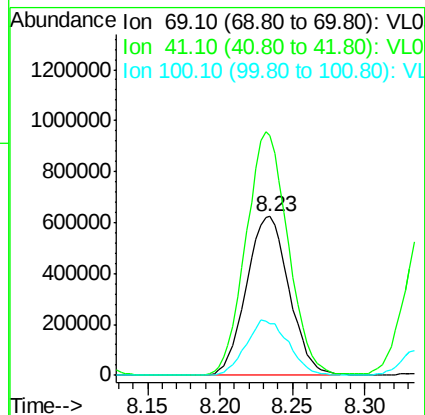
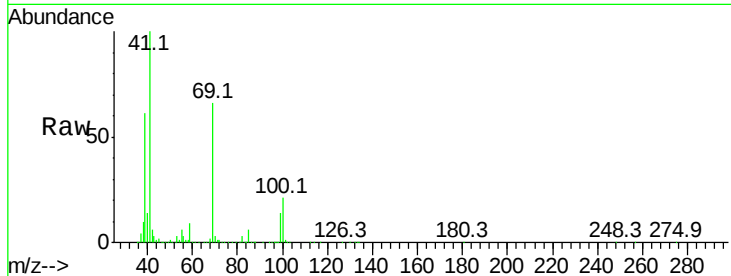




#43  
Methyl Methacrylate  
Concen: 9.426 ppbv  
RT: 8.23 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

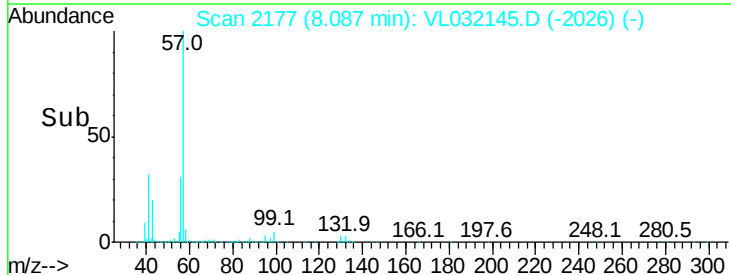
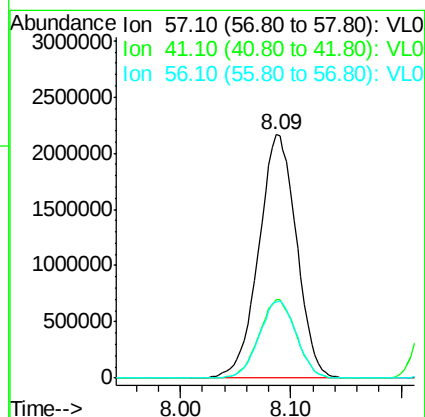
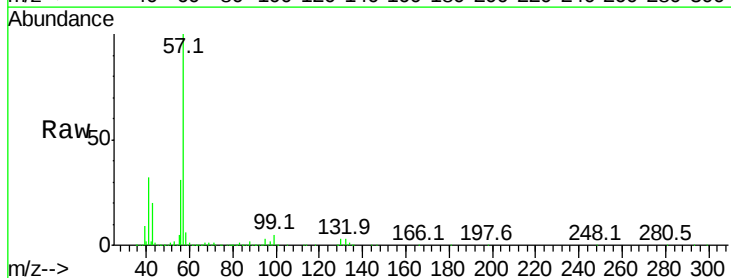
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

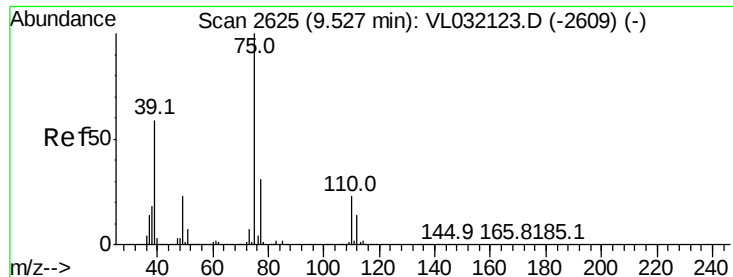
Tgt Ion: 69 Resp: 1279521  
Ion Ratio Lower Upper  
69 100  
41 150.5 118.2 177.4  
100 34.7 27.4 41.2



#44  
2,2,4-Trimethylpentane  
Concen: 9.114 ppbv  
RT: 8.09 min Scan# 2177  
Delta R.T. -0.02 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 57 Resp: 5132853  
Ion Ratio Lower Upper  
57 100  
41 31.4 24.3 36.5  
56 31.2 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.982 ppbv

RT: 9.52 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

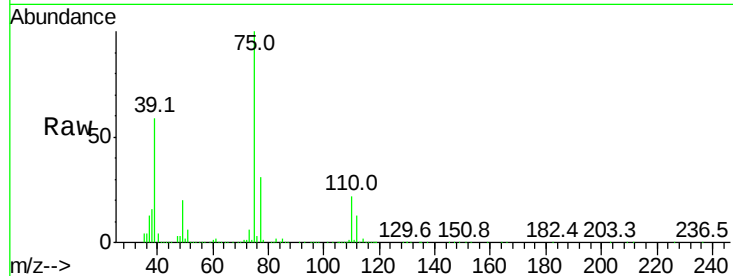
VSTDICCC010

Tgt Ion: 75 Resp: 1675810

Ion Ratio Lower Upper

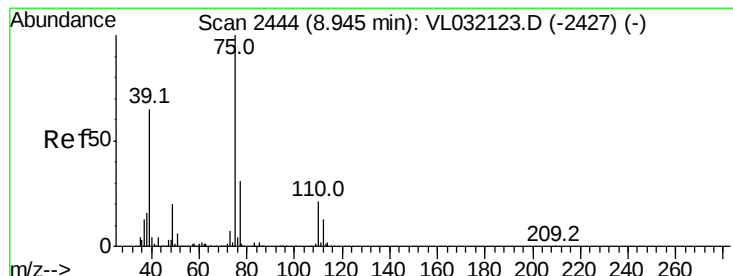
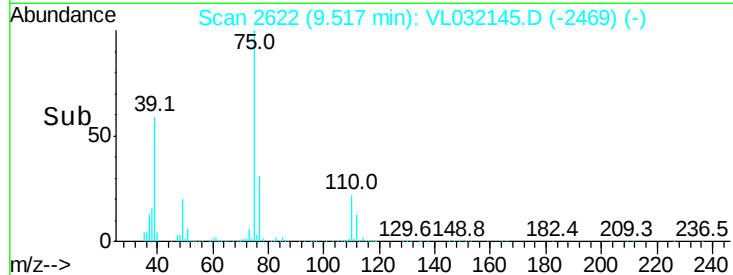
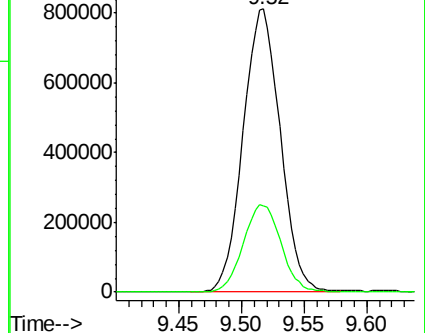
75 100

77 30.6 25.6 38.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 8.656 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

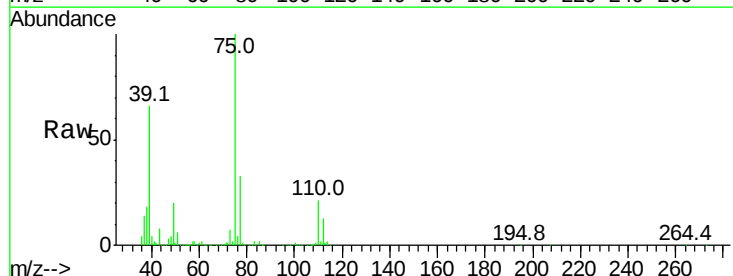
Tgt Ion: 75 Resp: 1860395

Ion Ratio Lower Upper

75 100

39 66.1 51.9 77.9

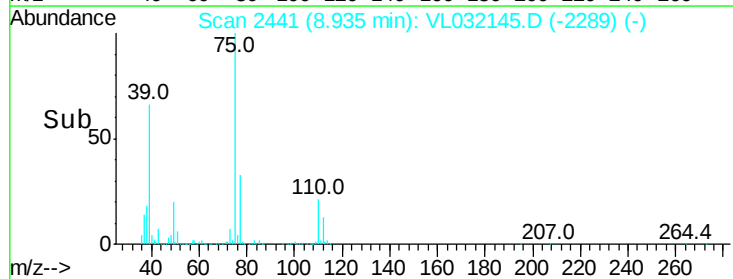
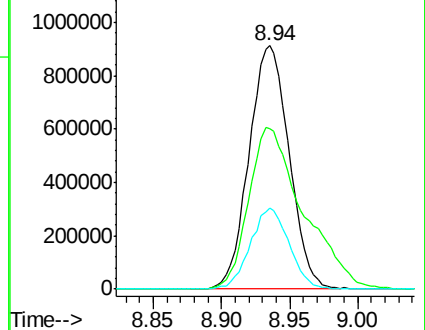
77 33.4 24.3 36.5

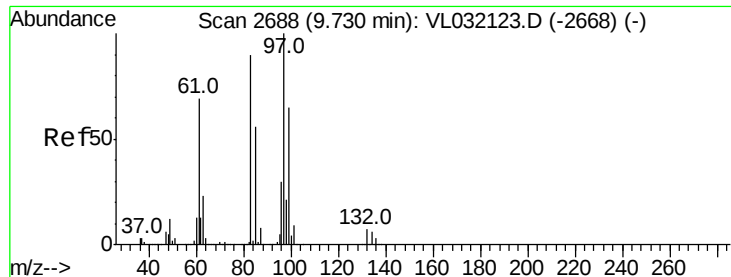


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 8.501 ppbv

RT: 9.72 min Scan# 2684

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 1212049

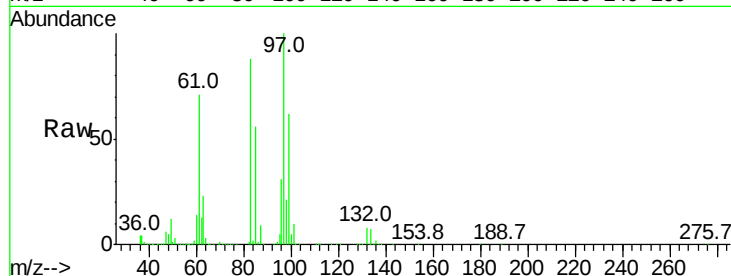
Ion Ratio Lower Upper

97 100

83 87.5 71.0 106.4

85 55.5 44.2 66.4

99 62.4 49.2 73.8

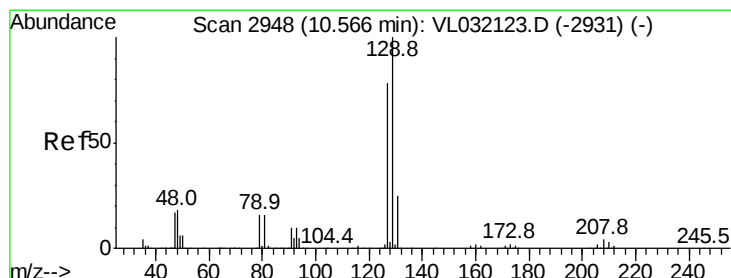
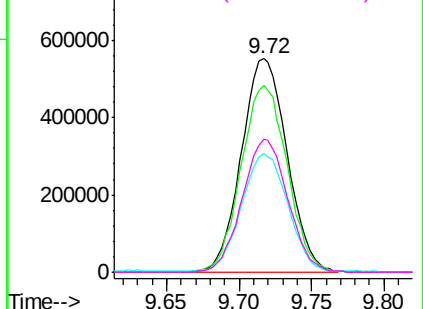
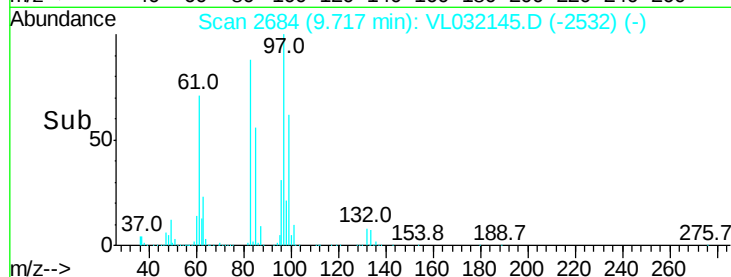


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.347 ppbv

RT: 10.56 min Scan# 2945

Delta R.T. -0.02 min

Lab File: VL032145.D

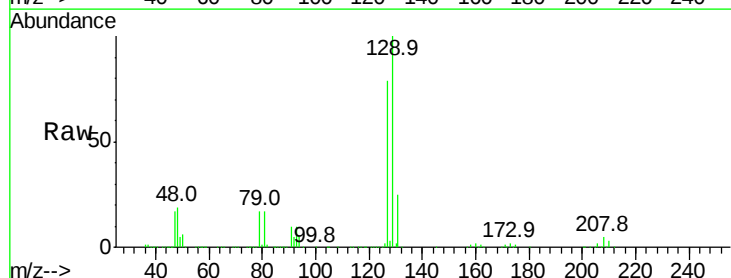
Acq: 29 Jun 2018 18:04

Tgt Ion: 129 Resp: 1994870

Ion Ratio Lower Upper

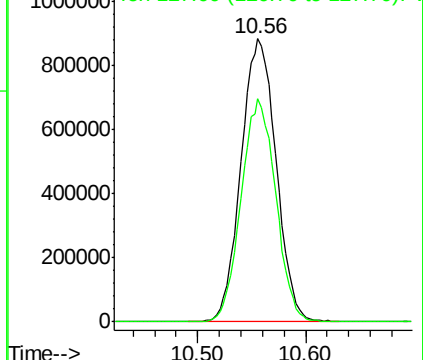
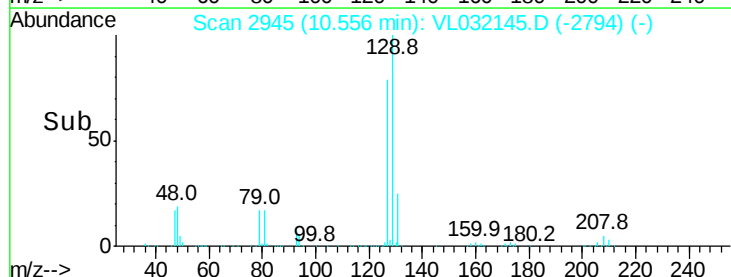
129 100

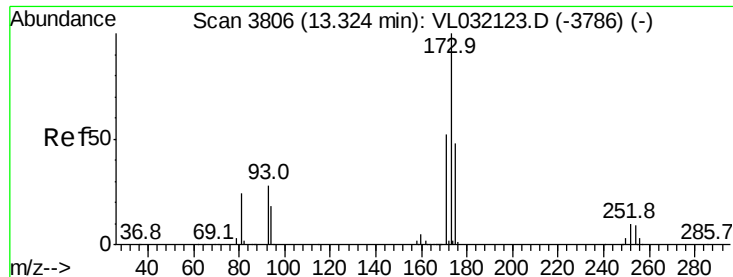
127 77.7 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.234 ppbv

RT: 13.31 min Scan# 3801

Delta R.T. -0.02 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

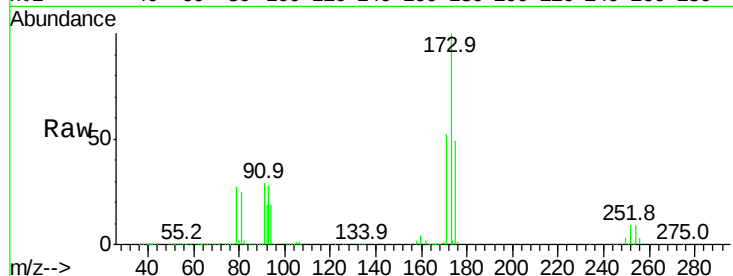
Tgt Ion:173 Resp: 1672394

Ion Ratio Lower Upper

173 100

175 48.9 39.4 59.0

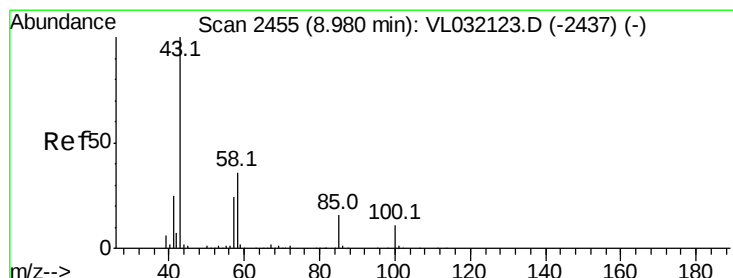
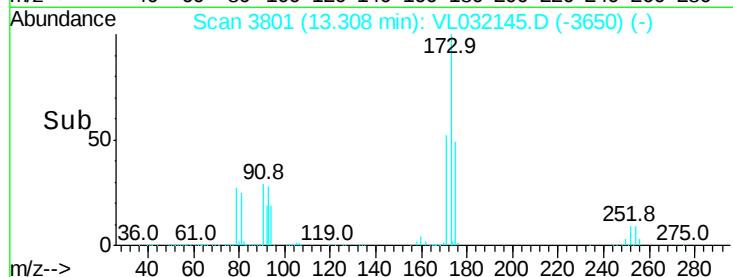
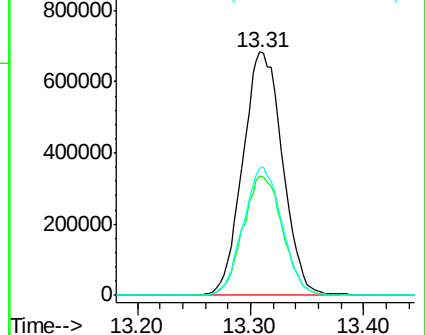
171 51.5 41.8 62.8



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 7.728 ppbv

RT: 8.97 min Scan# 2451

Delta R.T. -0.02 min

Lab File: VL032145.D

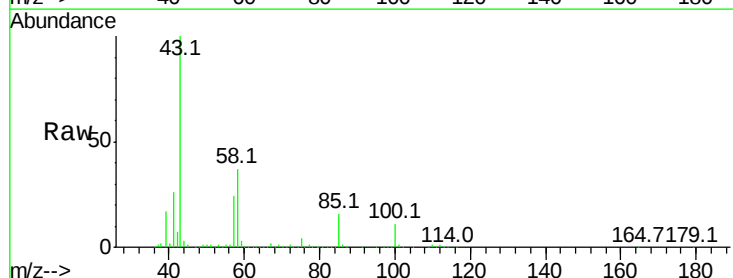
Acq: 29 Jun 2018 18:04

Tgt Ion: 43 Resp: 3078813

Ion Ratio Lower Upper

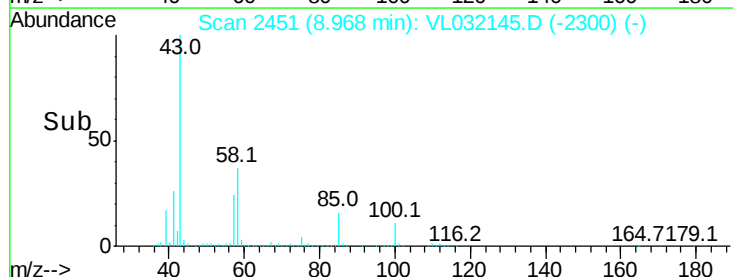
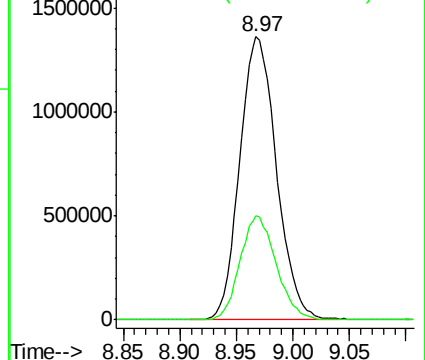
43 100

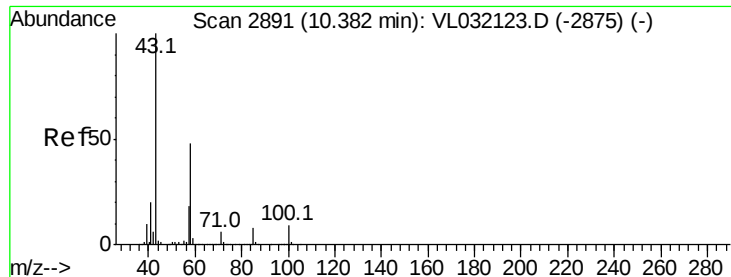
58 36.2 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 6.694 ppbv

RT: 10.37 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

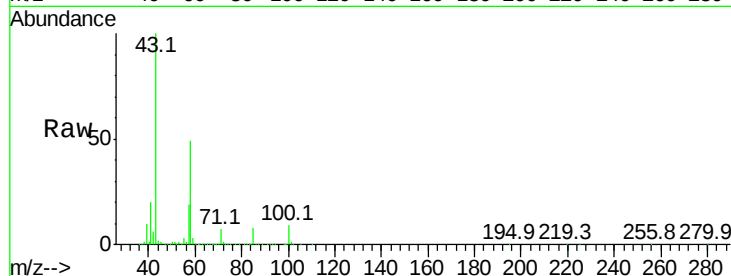
Tgt Ion: 43 Resp: 2654075

Ion Ratio Lower Upper

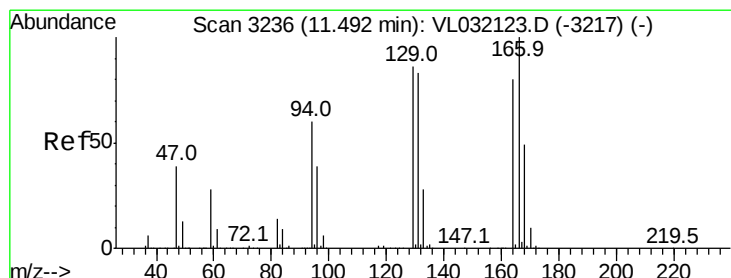
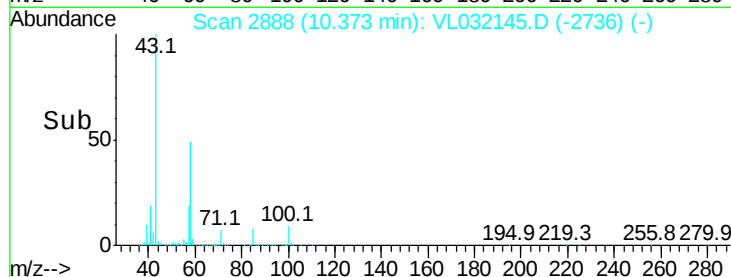
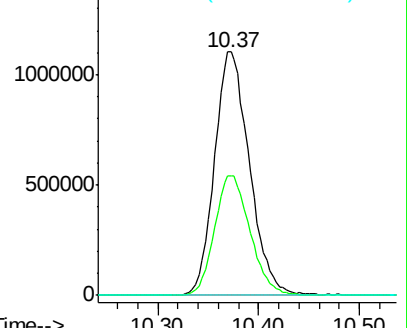
43 100

58 50.1 40.6 60.8

98 0.1 0.1 0.1#



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



#52

Tetrachloroethene

Concen: 7.710 ppbv

RT: 11.48 min Scan# 3232

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Tgt Ion:164 Resp: 977827

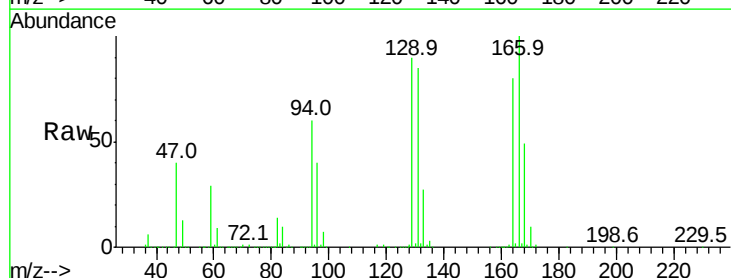
Ion Ratio Lower Upper

164 100

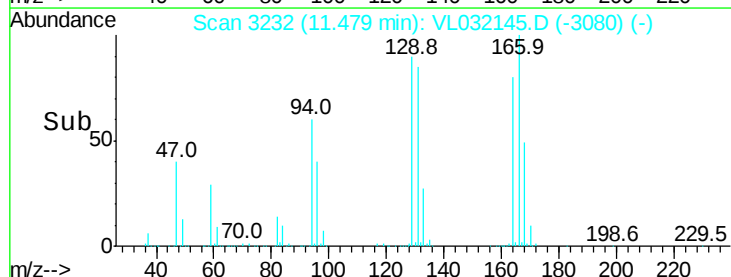
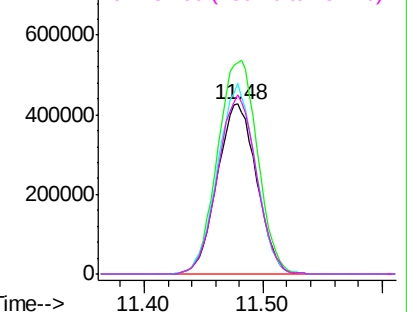
166 124.6 100.6 151.0

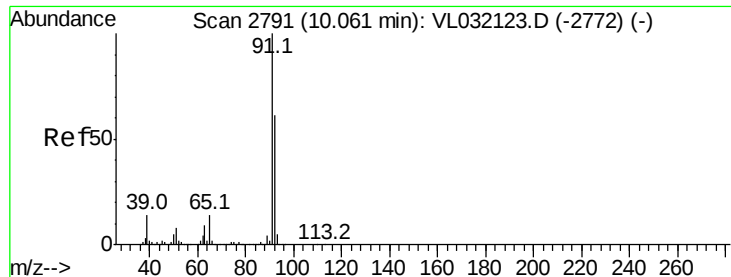
129 112.2 84.0 126.0

131 105.7 82.7 124.1



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 8.563 ppbv

RT: 10.05 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

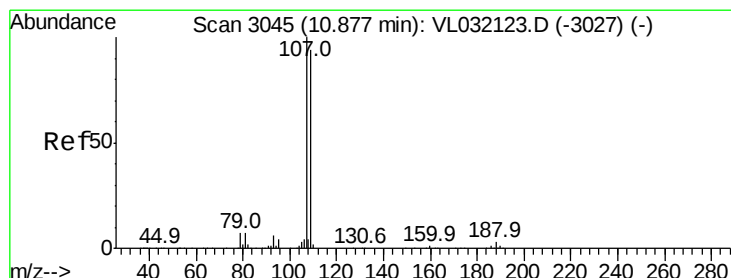
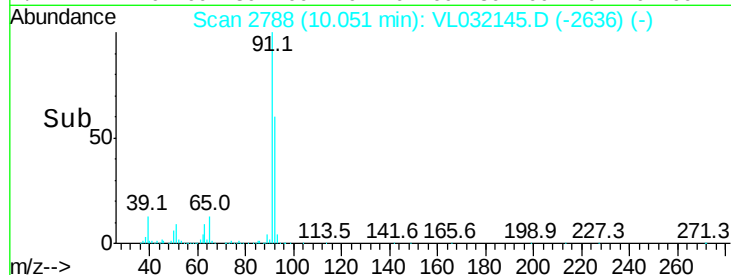
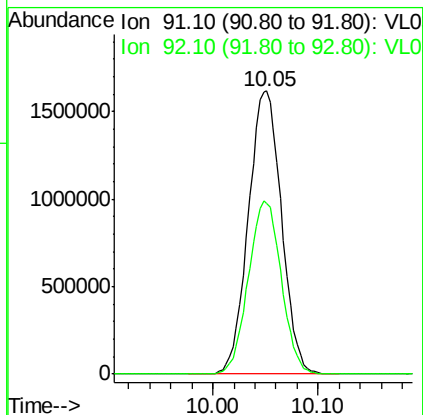
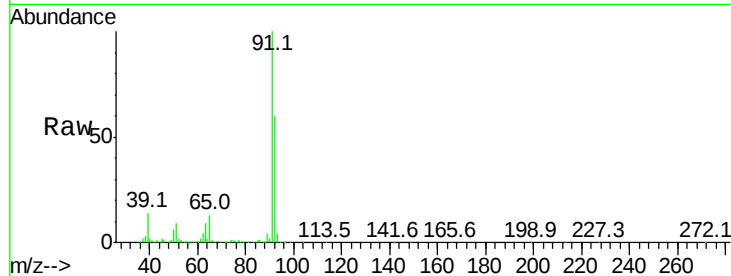
VSTDICCC010

Tgt Ion: 91 Resp: 3546533

Ion Ratio Lower Upper

91 100

92 60.8 49.2 73.8



#54

1,2-Dibromoethane

Concen: 8.740 ppbv

RT: 10.86 min Scan# 3041

Delta R.T. -0.01 min

Lab File: VL032145.D

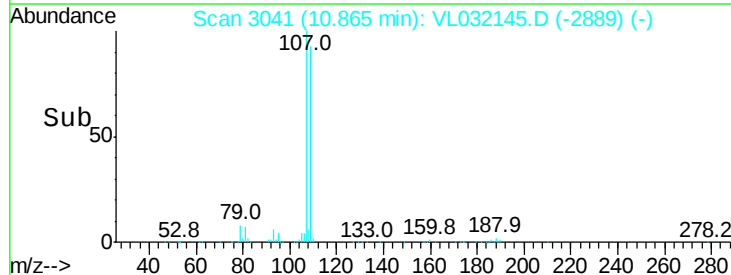
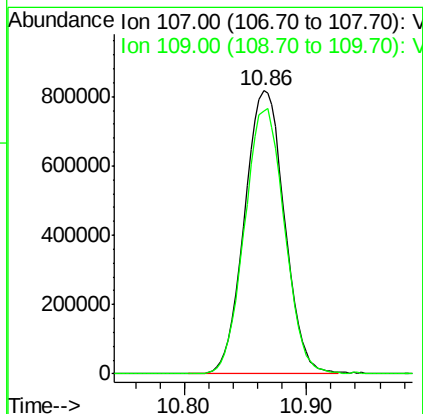
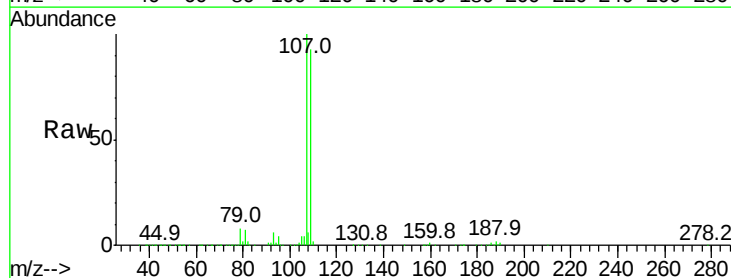
Acq: 29 Jun 2018 18:04

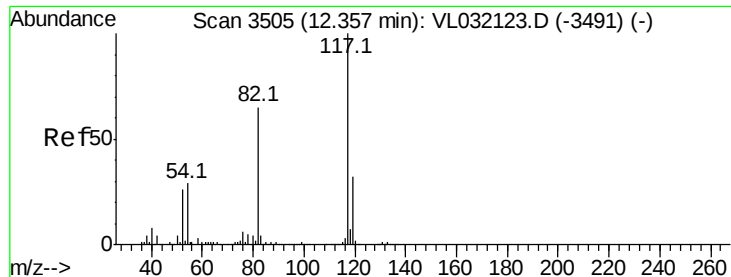
Tgt Ion: 107 Resp: 1843845

Ion Ratio Lower Upper

107 100

109 92.8 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.35 min Scan# 3502

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

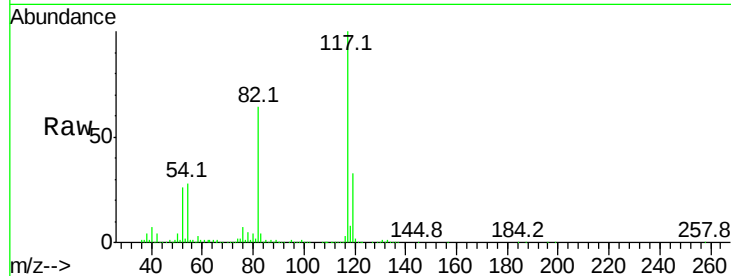
Tgt Ion:117 Resp: 4059730

Ion Ratio Lower Upper

117 100

82 51.8 47.8 71.8

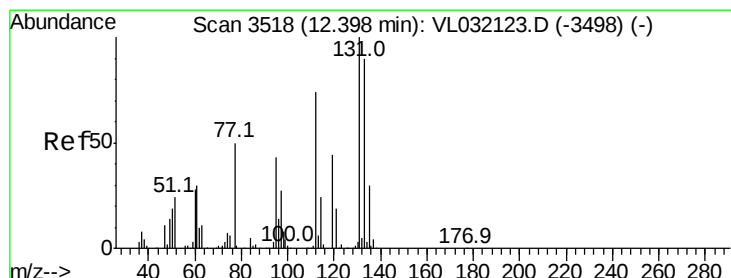
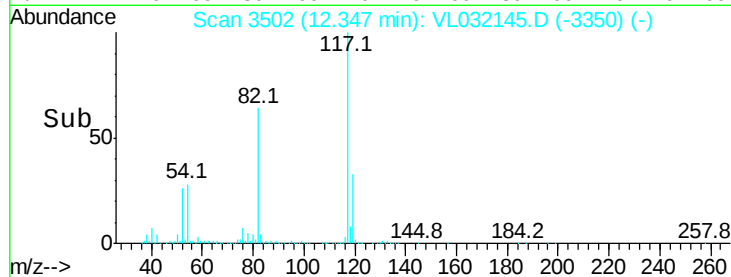
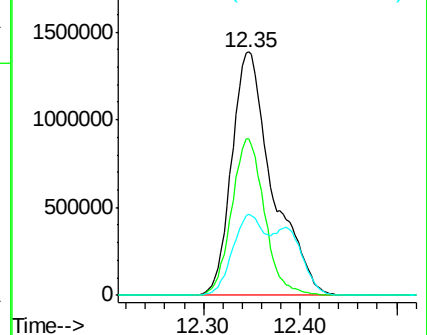
119 46.5 43.3 64.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.224 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

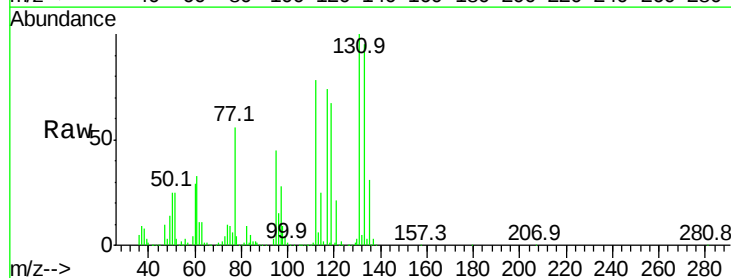
Tgt Ion:131 Resp: 1303919

Ion Ratio Lower Upper

131 100

133 96.2 75.5 113.3

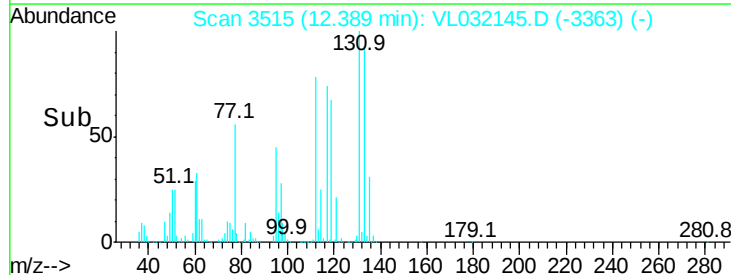
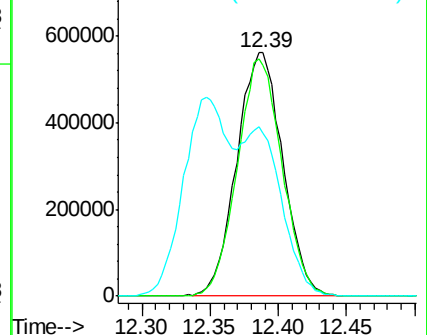
119 145.1 118.4 177.6

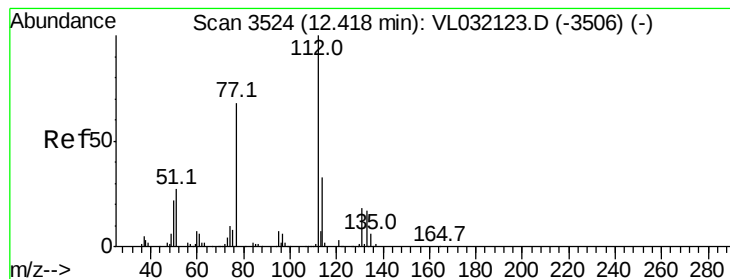


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 6.436 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

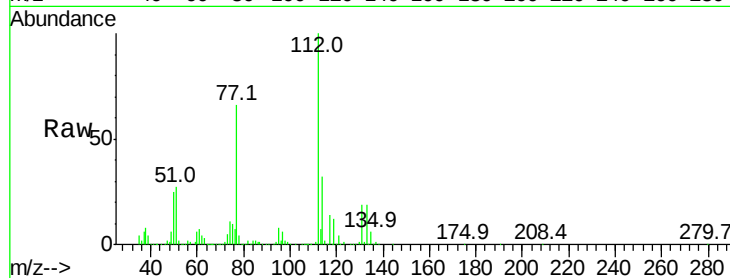
Tgt Ion:112 Resp: 2475842

Ion Ratio Lower Upper

112 100

77 66.0 52.6 78.8

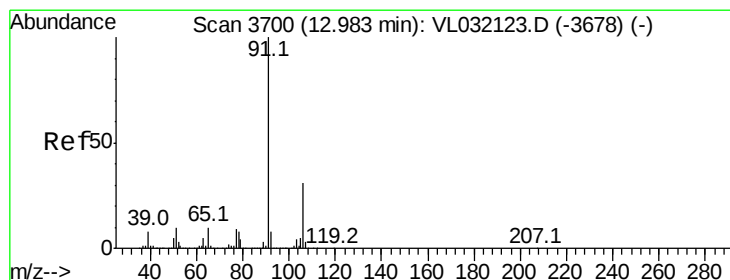
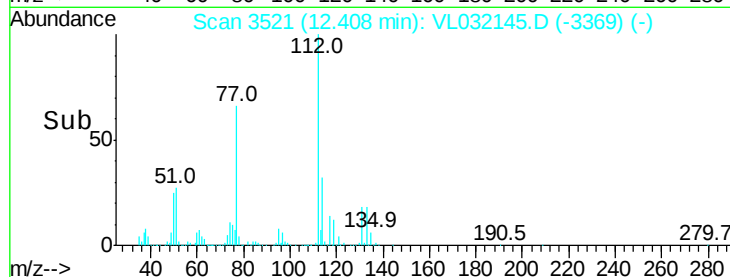
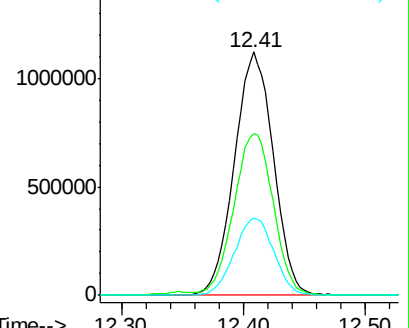
114 31.9 27.9 34.1



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: 6.483 ppbv

RT: 12.97 min Scan# 3696

Delta R.T. -0.01 min

Lab File: VL032145.D

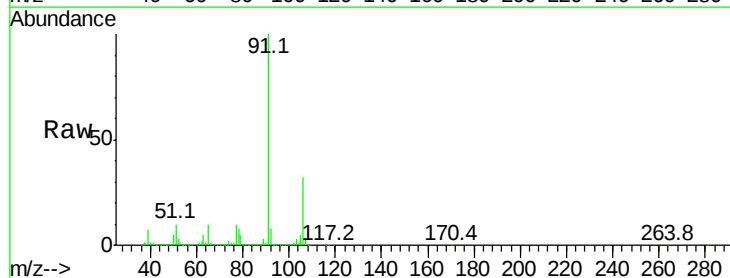
Acq: 29 Jun 2018 18:04

Tgt Ion: 91 Resp: 4585891

Ion Ratio Lower Upper

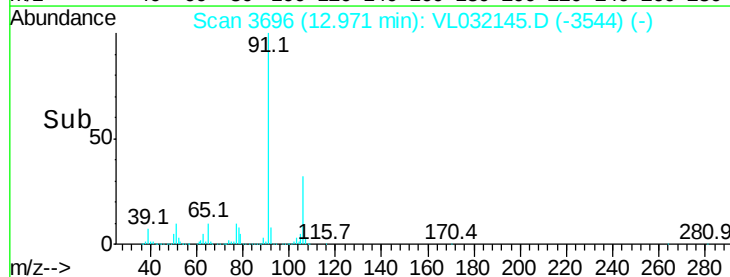
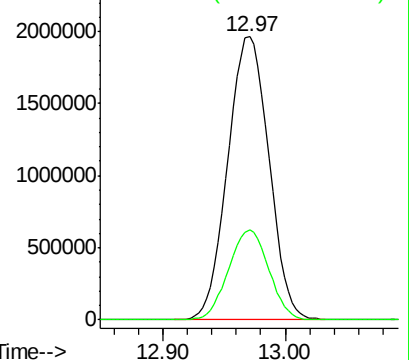
91 100

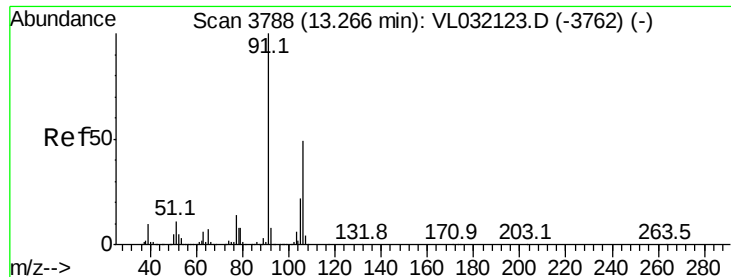
106 32.0 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

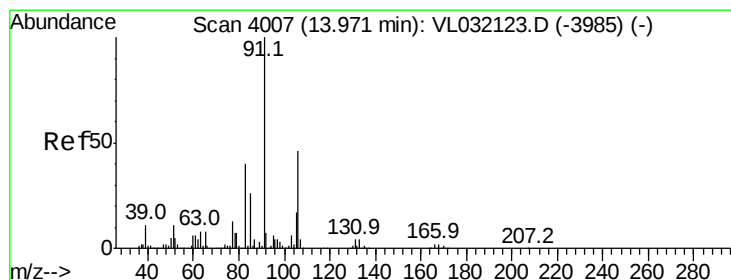
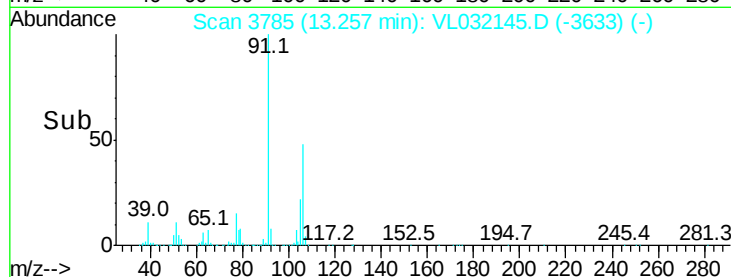
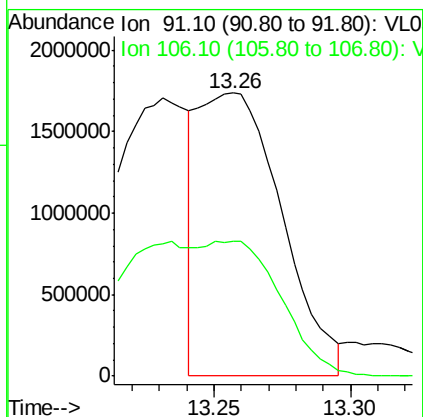
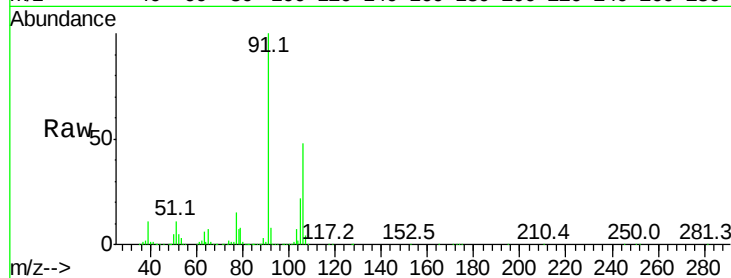




#59  
m/p-Xylene  
Concen: 6.548 ppbv  
RT: 13.26 min Scan# 3785  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

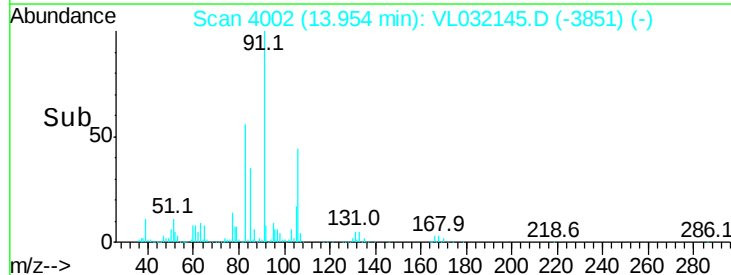
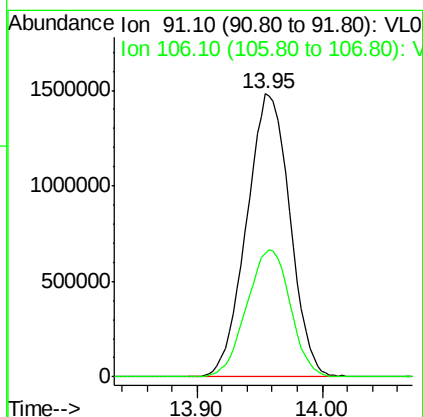
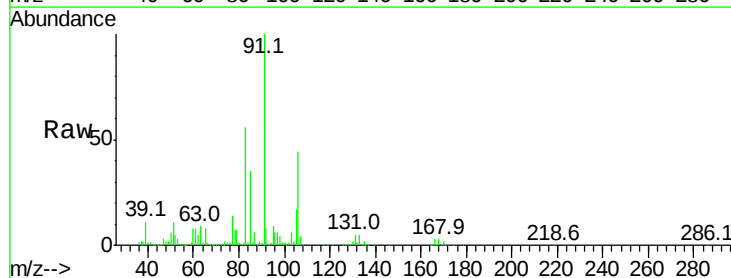
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

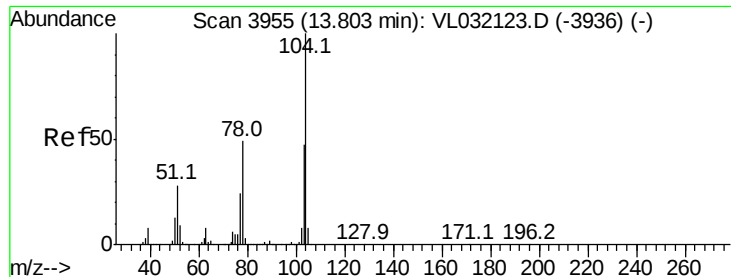
Tgt Ion: 91 Resp: 3665205  
Ion Ratio Lower Upper  
91 100  
106 92.7 38.6 58.0#



#60  
o-Xylene  
Concen: 6.412 ppbv  
RT: 13.95 min Scan# 4002  
Delta R.T. -0.02 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 91 Resp: 3559804  
Ion Ratio Lower Upper  
91 100  
106 45.5 23.3 69.8





#61

Styrene

Concen: 18.983 ppbv

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

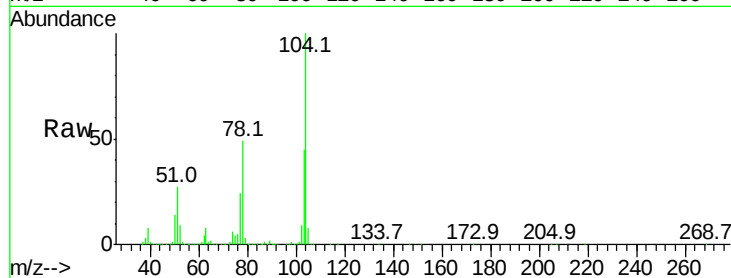
Tgt Ion:104 Resp: 3148414

Ion Ratio Lower Upper

104 100

78 50.0 37.9 56.9

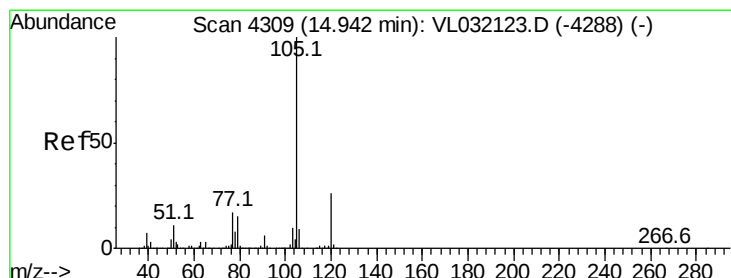
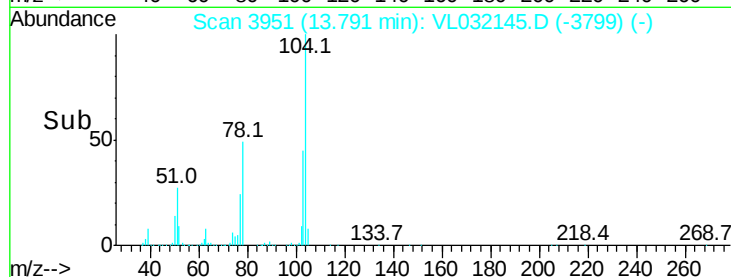
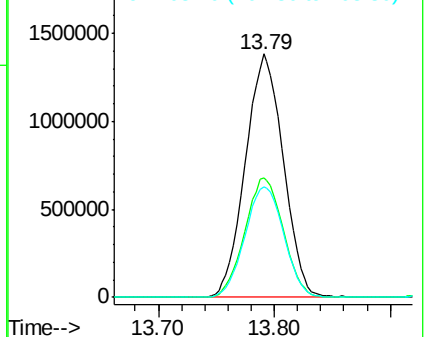
103 46.9 36.6 55.0



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: 7.159 ppbv

RT: 14.93 min Scan# 4306

Delta R.T. -0.02 min

Lab File: VL032145.D

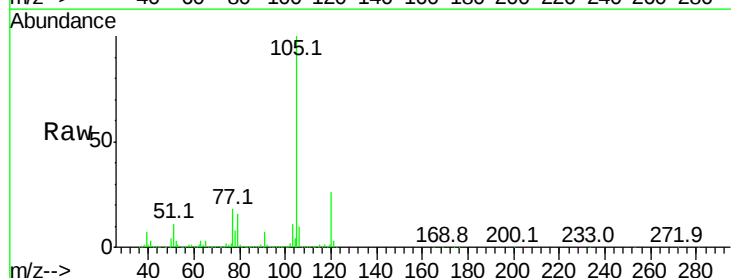
Acq: 29 Jun 2018 18:04

Tgt Ion:105 Resp: 5296888

Ion Ratio Lower Upper

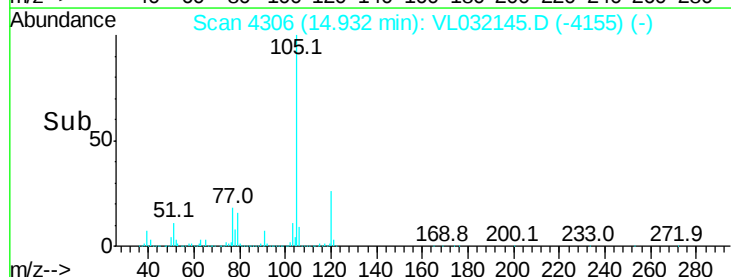
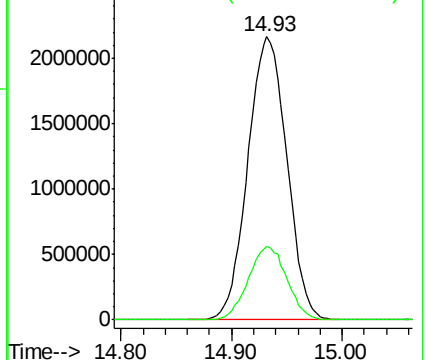
105 100

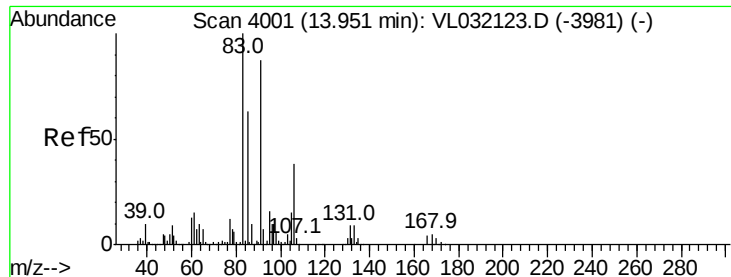
120 25.7 21.0 31.4



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: 5.790 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

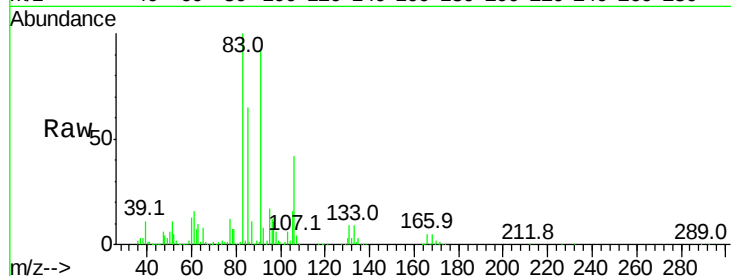
Tgt Ion: 83 Resp: 2496436

Ion Ratio Lower Upper

83 100

131 9.4 4.6 13.8

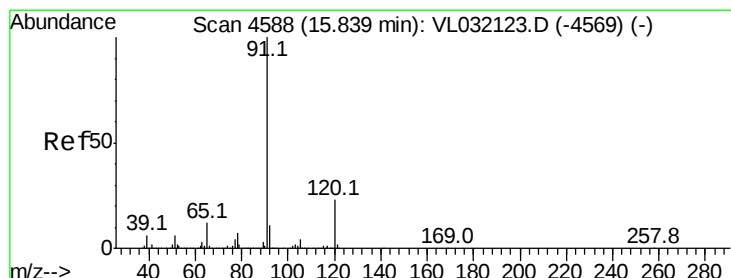
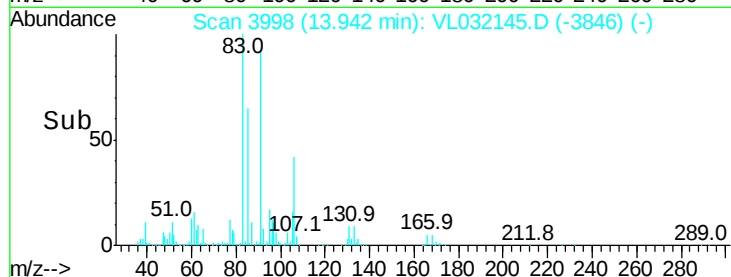
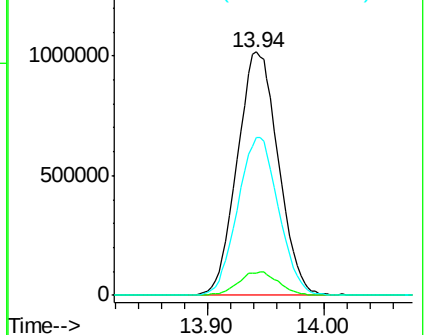
85 64.9 32.4 97.2



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: 7.082 ppbv

RT: 15.83 min Scan# 4585

Delta R.T. -0.01 min

Lab File: VL032145.D

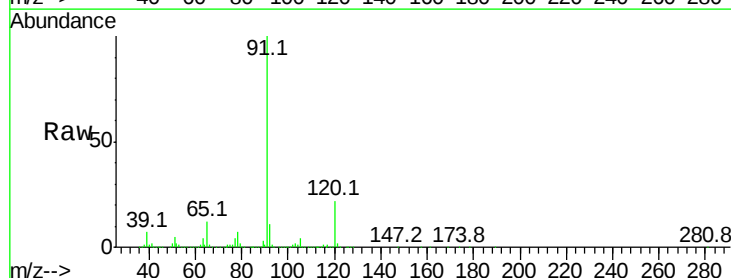
Acq: 29 Jun 2018 18:04

Tgt Ion: 120 Resp: 1365262

Ion Ratio Lower Upper

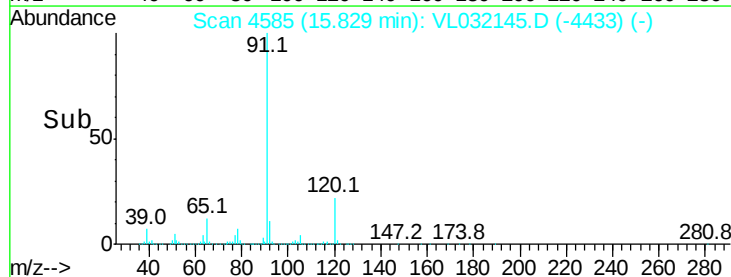
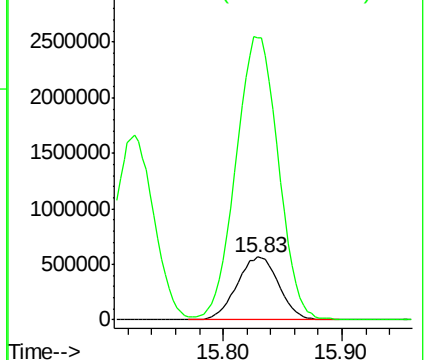
120 100

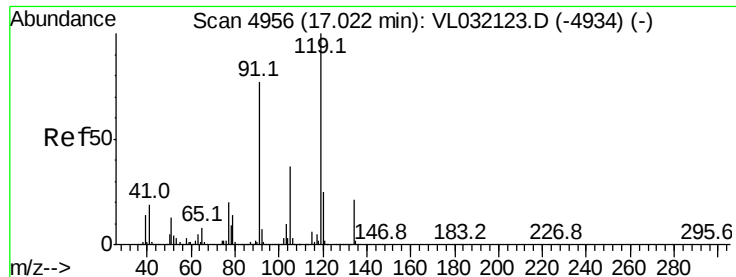
91 461.5 357.4 536.0



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

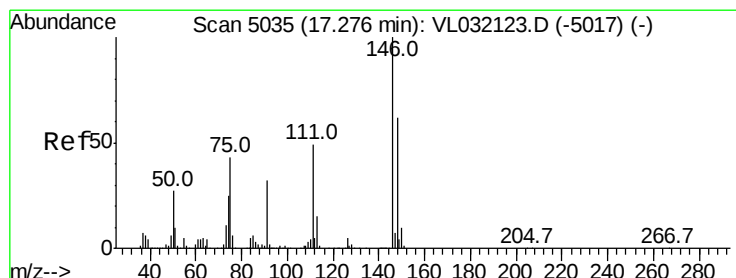
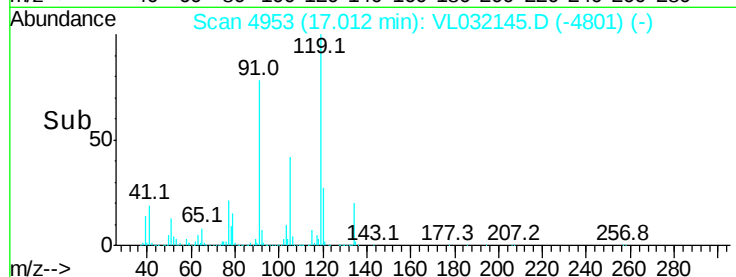
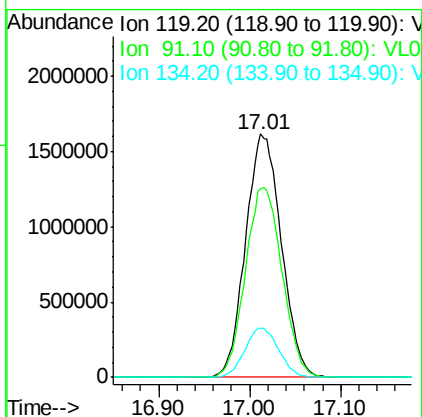
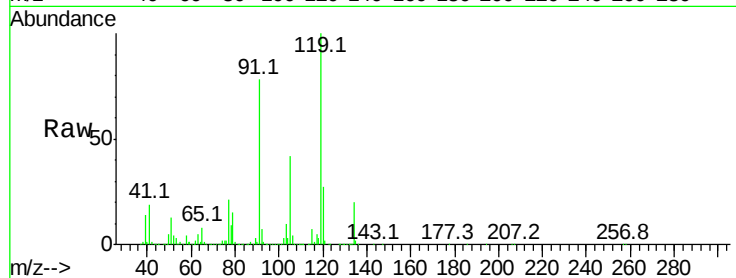




#65  
 tert-Butylbenzene  
 Concen: 6.754 ppbv  
 RT: 17.01 min Scan# 4953  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

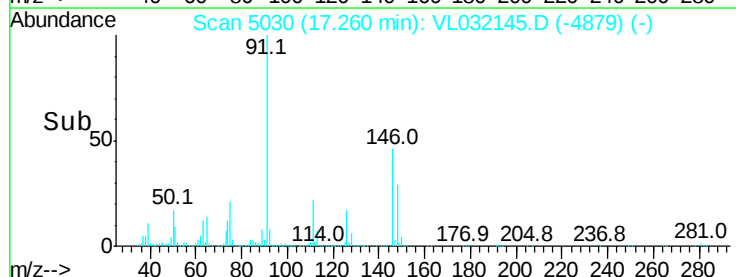
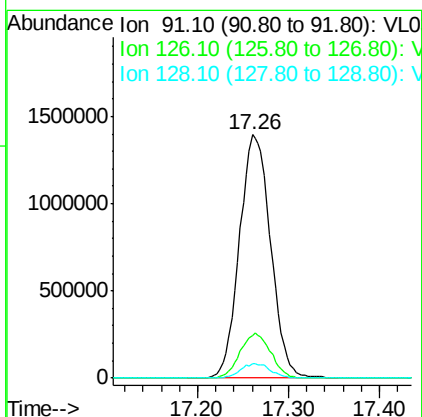
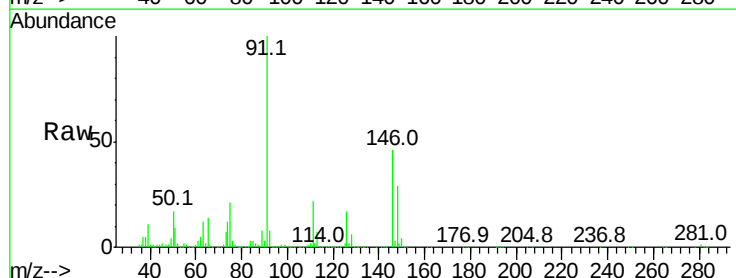
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

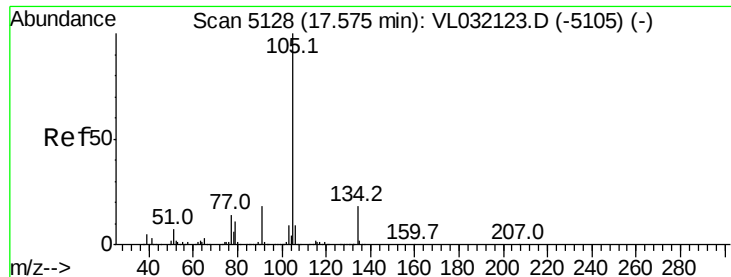
Tgt Ion: 119 Resp: 4400000  
 Ion Ratio Lower Upper  
 119 100  
 91 79.9 62.2 93.2  
 134 19.3 16.2 24.2



#66  
 Benzyl Chloride  
 Concen: 39.898 ppbv  
 RT: 17.26 min Scan# 5030  
 Delta R.T. -0.02 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 91 Resp: 3316180  
 Ion Ratio Lower Upper  
 91 100  
 126 18.3 15.7 23.5  
 128 5.8 5.2 7.8

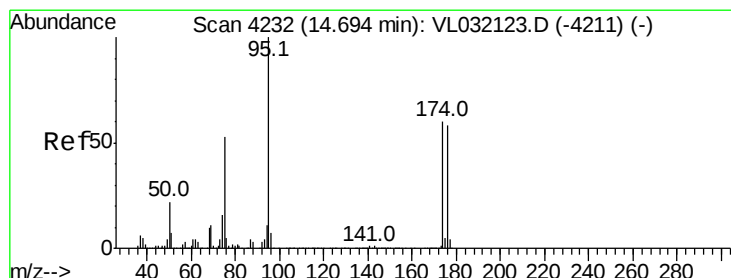
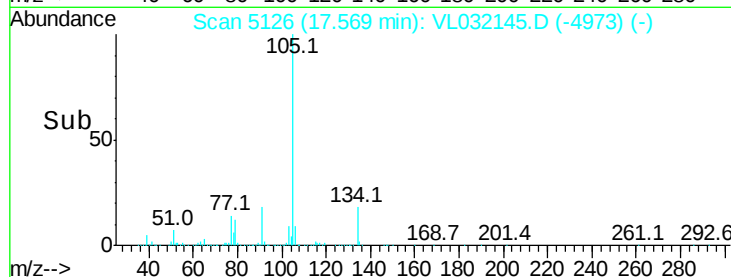
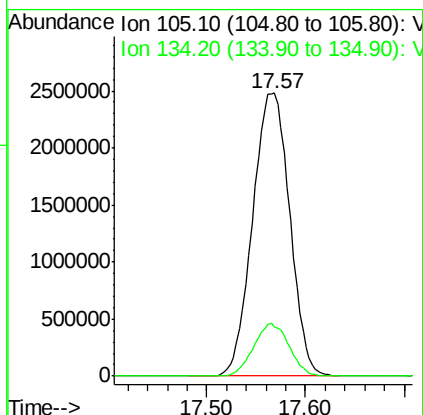
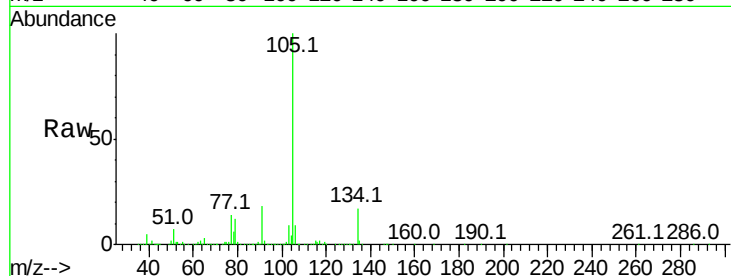




#67  
 sec-Butylbenzene  
 Concen: 6.779 ppbv  
 RT: 17.57 min Scan# 5126  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

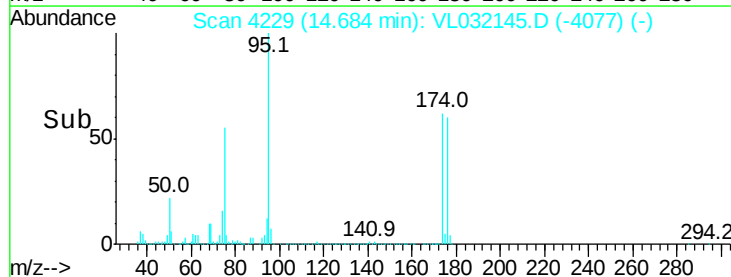
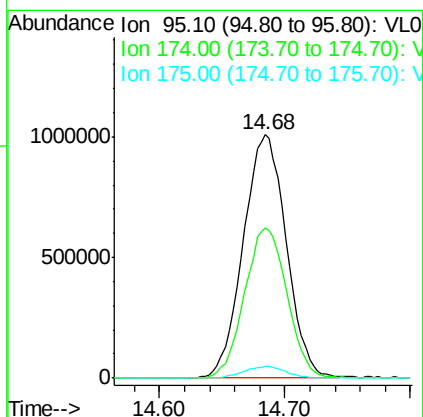
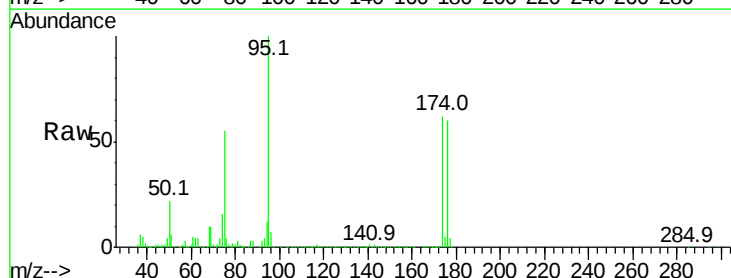
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

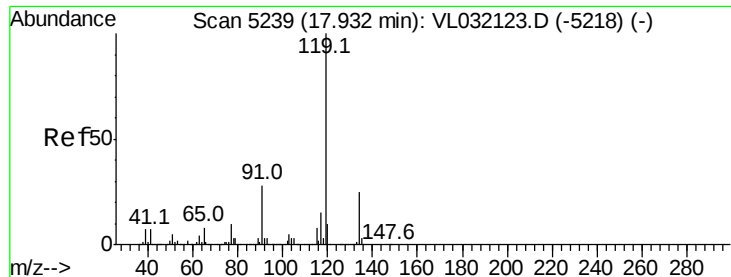
Tgt Ion:105 Resp: 6436341  
 Ion Ratio Lower Upper  
 105 100  
 134 17.9 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 7.946 ppbv  
 RT: 14.68 min Scan# 4229  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 95 Resp: 2397164  
 Ion Ratio Lower Upper  
 95 100  
 174 61.5 52.1 78.1  
 175 4.8 4.0 6.0

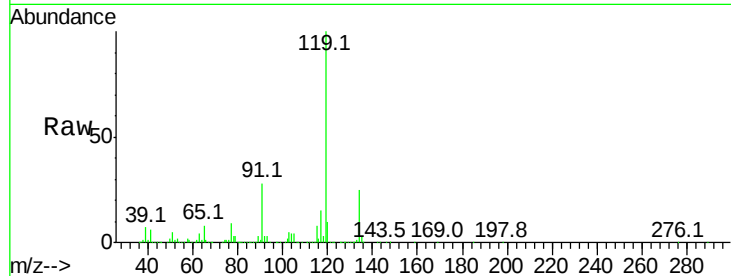




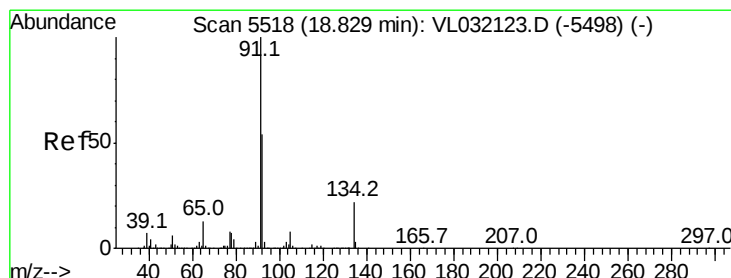
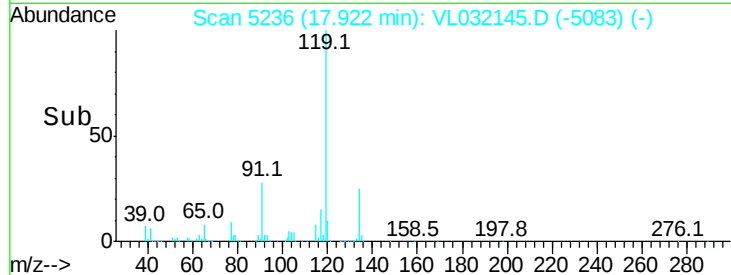
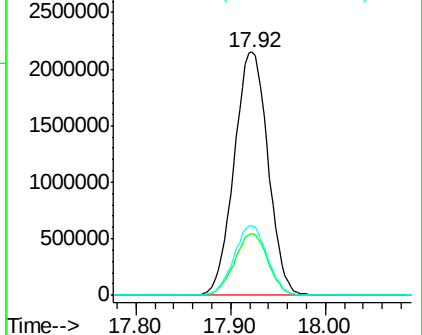
#69  
p-Isopropyltoluene  
Concen: 6.855 ppbv  
RT: 17.92 min Scan# 5236  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:119 Resp: 5335474  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.7 31.1  
91 28.2 21.8 32.8

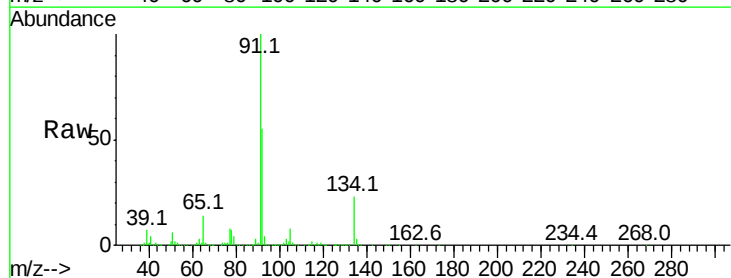


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

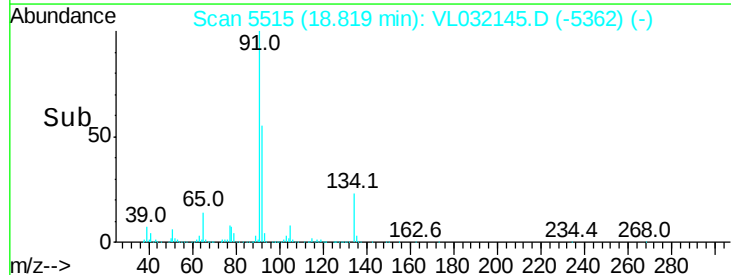
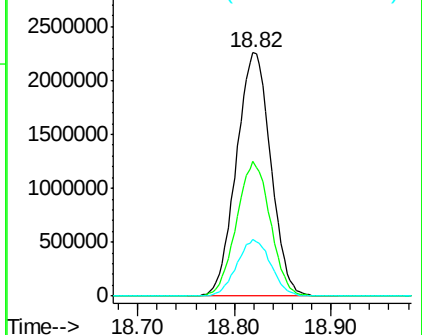


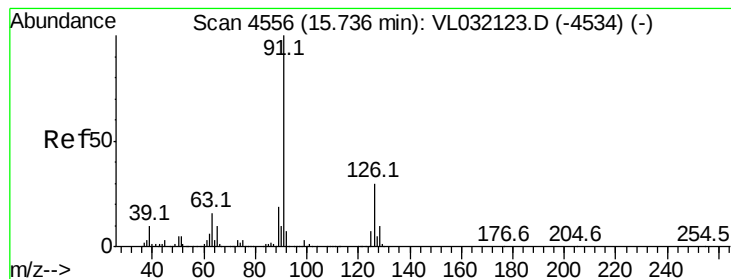
#70  
n-Butylbenzene  
Concen: 6.801 ppbv  
RT: 18.82 min Scan# 5515  
Delta R.T. -0.01 min  
Lab File: VL032145.D  
Acq: 29 Jun 2018 18:04

Tgt Ion: 91 Resp: 5567937  
Ion Ratio Lower Upper  
91 100  
92 54.6 43.7 65.5  
134 23.0 18.9 28.3



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

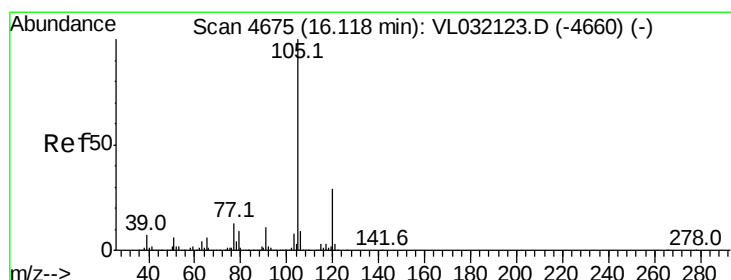
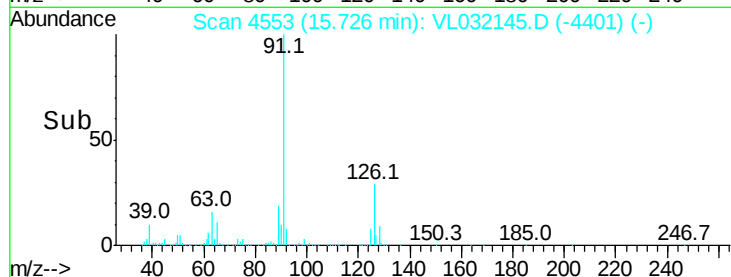
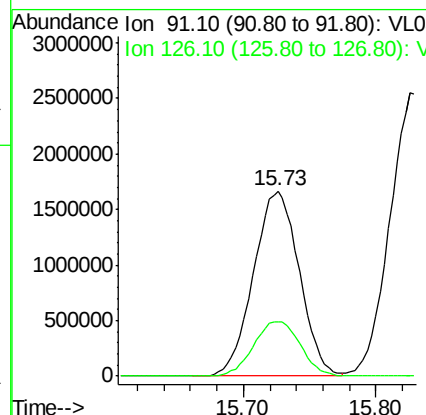
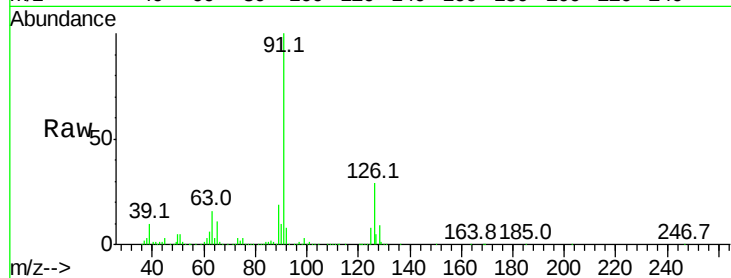




#71  
 2-Chlorotoluene  
 Concen: 7.038 ppbv  
 RT: 15.73 min Scan# 4553  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

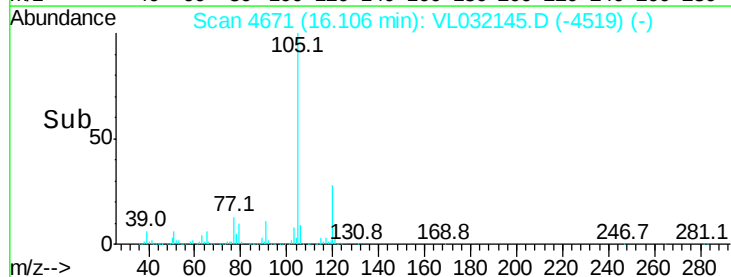
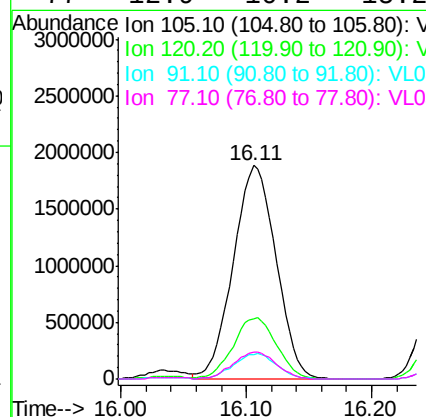
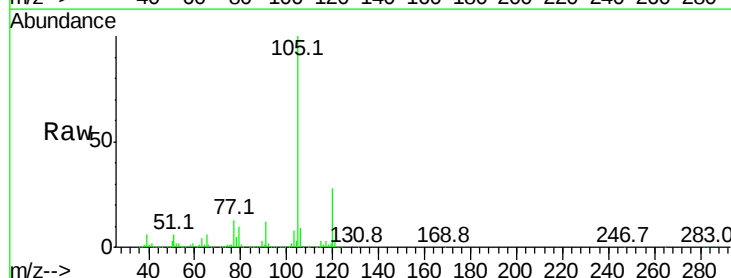
Instrument :  
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 ClientSampleId :  
 VSTDICCC010

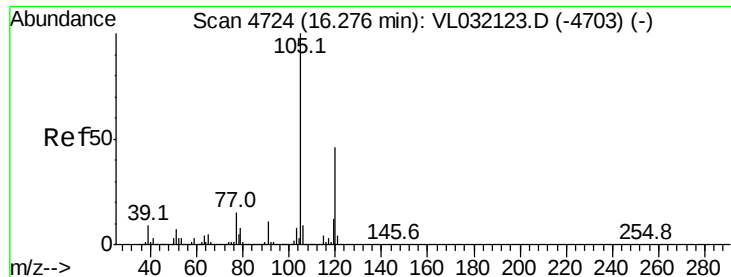
Tgt Ion: 91 Resp: 3994809  
 Ion Ratio Lower Upper  
 91 100  
 126 30.3 12.8 51.0



#72  
 4-Ethyltoluene  
 Concen: 7.105 ppbv  
 RT: 16.11 min Scan# 4671  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion: 105 Resp: 4452233  
 Ion Ratio Lower Upper  
 105 100  
 120 29.2 24.3 36.5  
 91 11.9 9.4 14.0  
 77 12.9 10.2 15.2

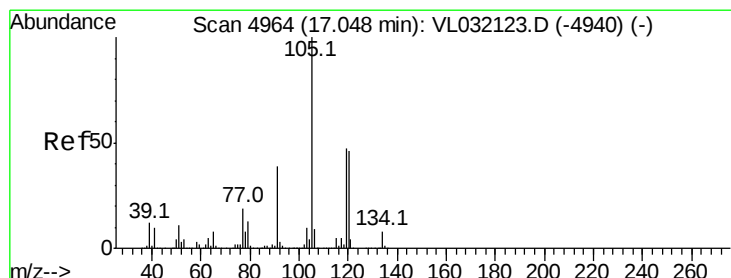
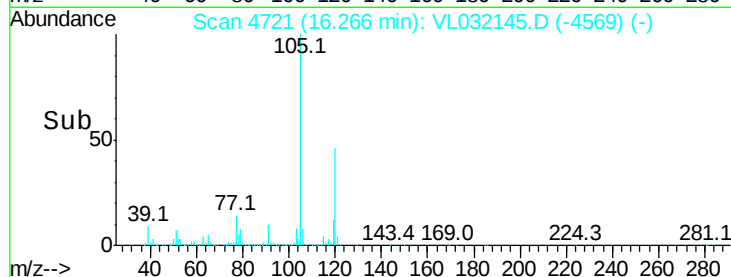
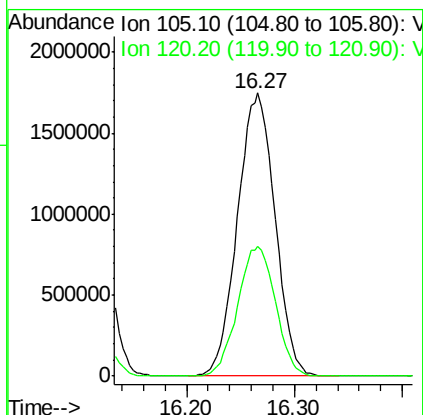
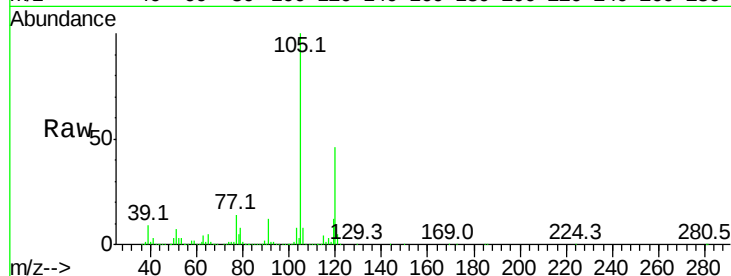




#73  
 1,3,5-Trimethylbenzene  
 Concen: 7.491 ppbv  
 RT: 16.27 min Scan# 4721  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

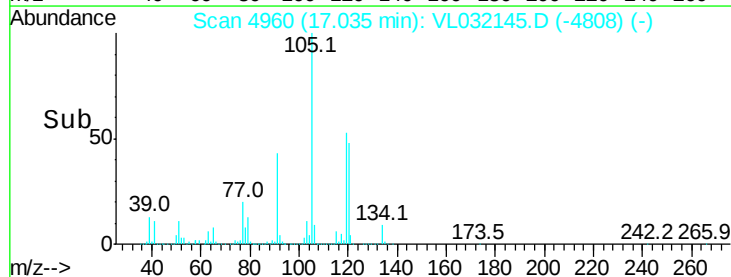
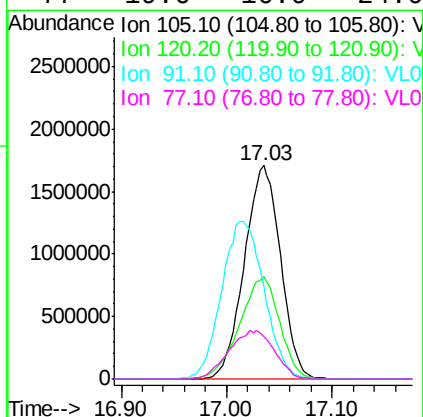
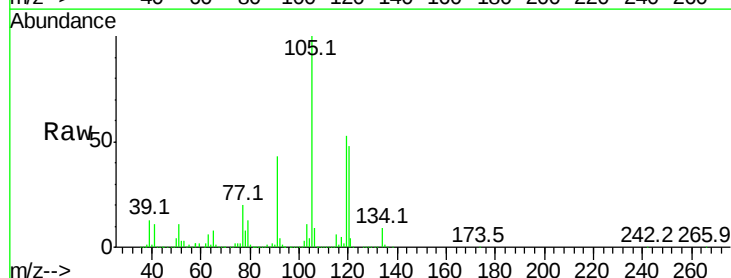
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 ClientSampleId :  
 VSTDICCC010

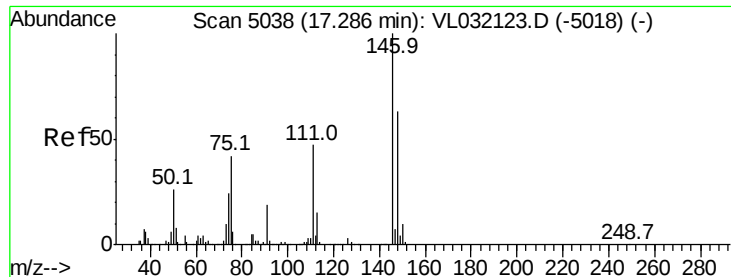
Tgt Ion:105 Resp: 4202554  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 38.6 57.8



#74  
 1,2,4-Trimethylbenzene  
 Concen: 6.841 ppbv  
 RT: 17.03 min Scan# 4960  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Tgt Ion:105 Resp: 4081138  
 Ion Ratio Lower Upper  
 105 100  
 120 47.8 38.8 58.2  
 91 43.0 33.6 50.4  
 77 19.6 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 6.413 ppbv

RT: 17.27 min Scan# 5034

Delta R.T. -0.02 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

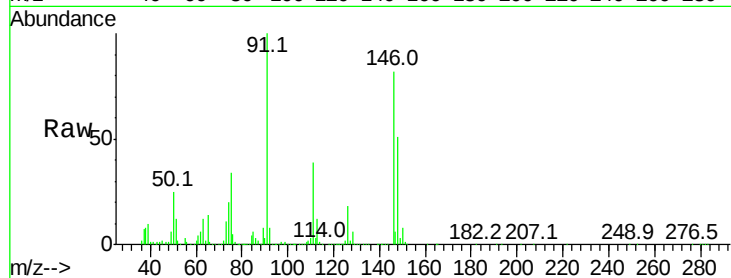
Tgt Ion:146 Resp: 2339384

Ion Ratio Lower Upper

146 100

111 47.4 22.9 68.8

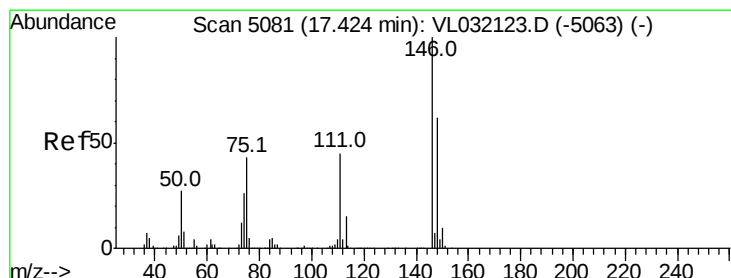
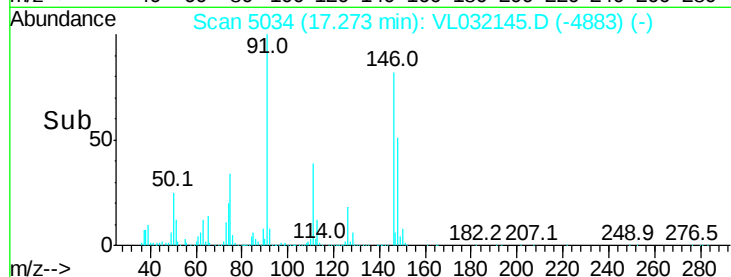
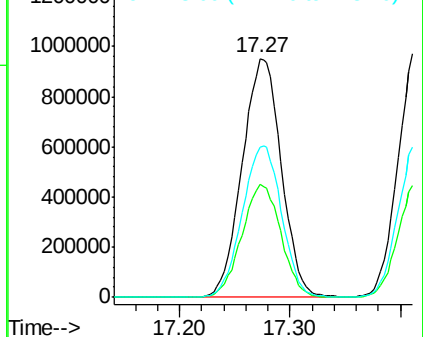
148 63.7 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 6.609 ppbv

RT: 17.42 min Scan# 5079

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

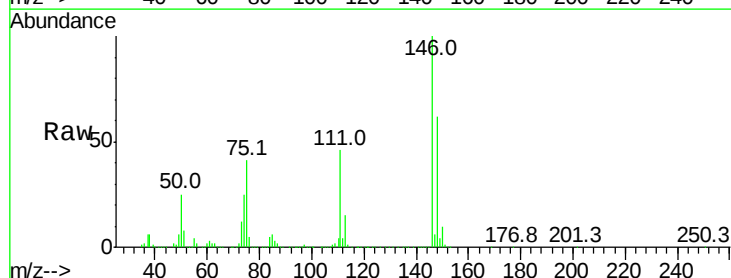
Tgt Ion:146 Resp: 2451831

Ion Ratio Lower Upper

146 100

111 46.1 21.9 65.8

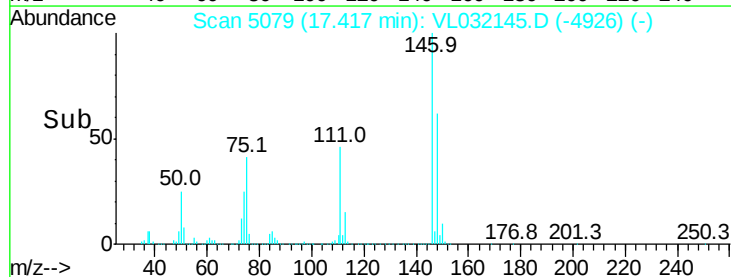
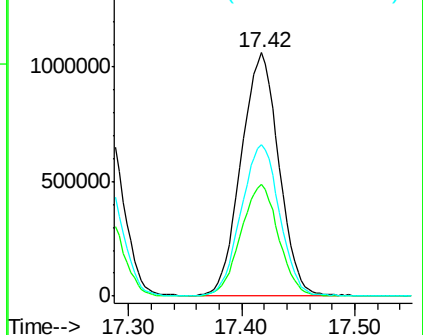
148 63.9 32.1 96.5

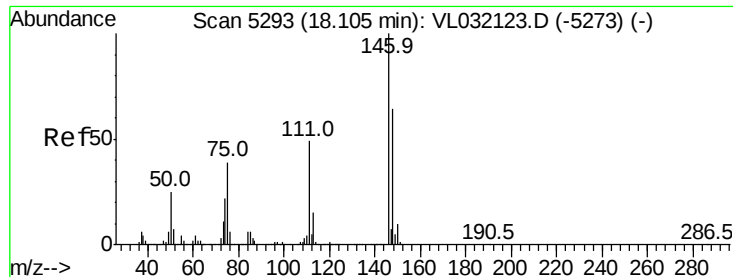


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 6.316 ppbv

RT: 18.10 min Scan# 5290

Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

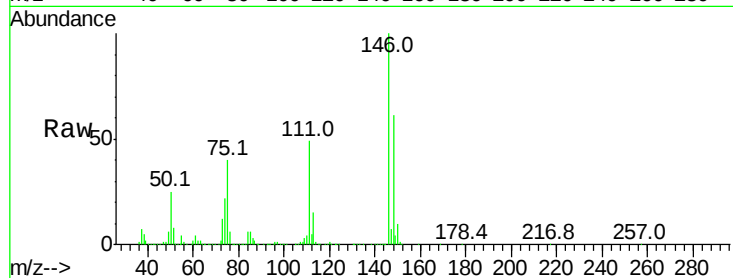
Tgt Ion:146 Resp: 2396894

Ion Ratio Lower Upper

146 100

111 48.5 23.4 70.3

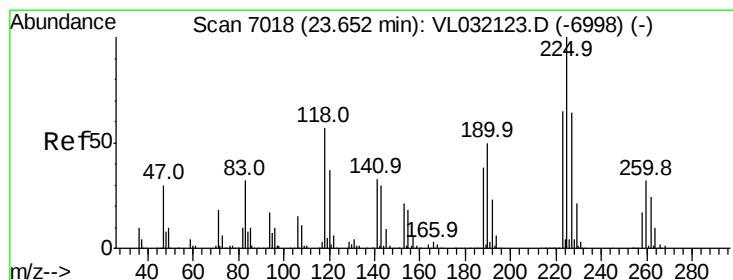
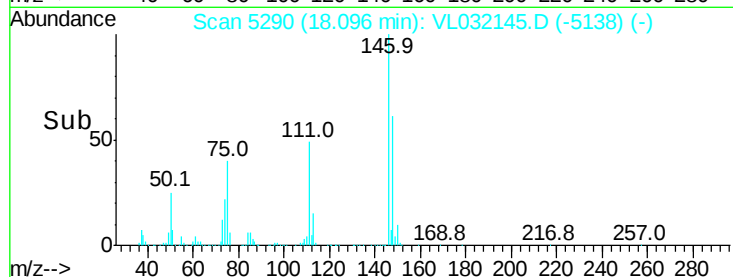
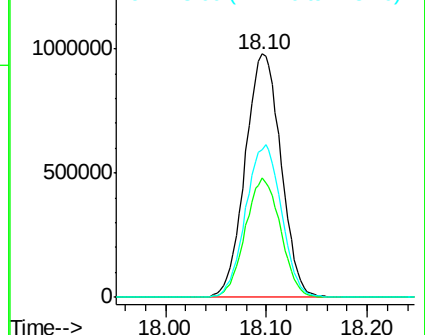
148 62.9 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.049 ppbv

RT: 23.64 min Scan# 7015

Delta R.T. -0.02 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

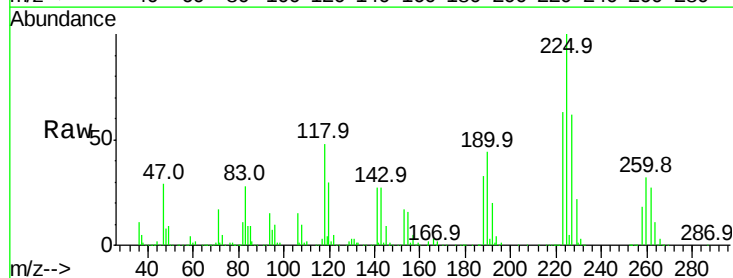
Tgt Ion:225 Resp: 831198

Ion Ratio Lower Upper

225 100

223 62.9 51.0 76.4

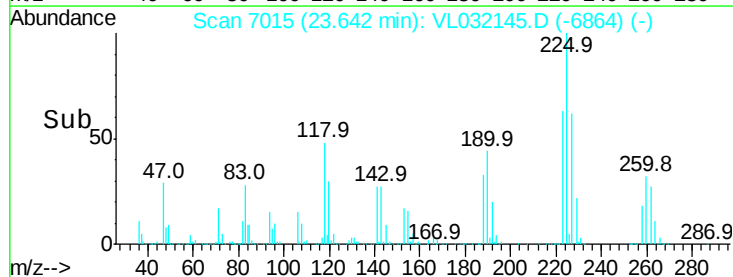
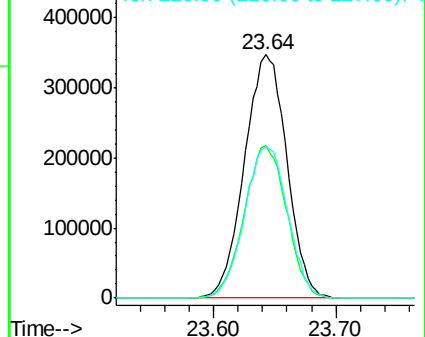
227 63.6 51.4 77.0

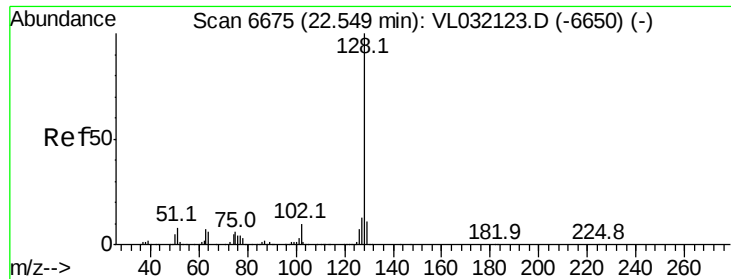


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.311 ppbv

RT: 22.54 min Scan# 6671

Delta R.T. -0.02 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Instrument :

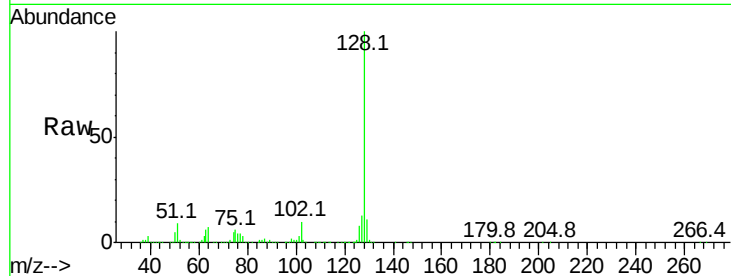
MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion:128 Resp: 4554474

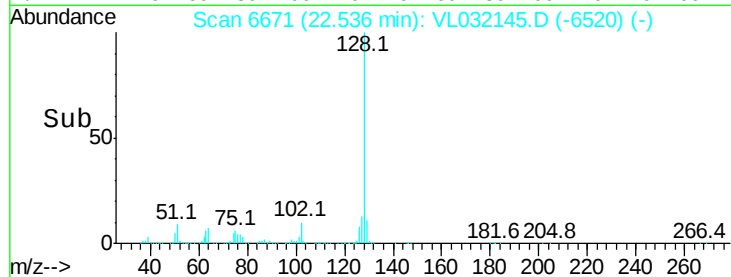
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.4  | 10.5  | 15.7  |
| 129 | 11.4  | 9.0   | 13.6  |



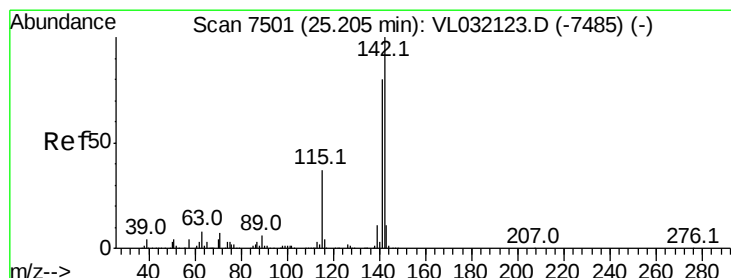
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time--> 22.40 22.50 22.60



#80

Naphthalene, 2-methyl-

Concen: 6.736 ppbv

RT: 25.19 min Scan# 7497

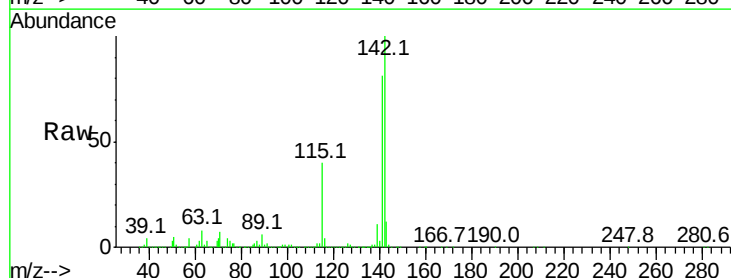
Delta R.T. -0.01 min

Lab File: VL032145.D

Acq: 29 Jun 2018 18:04

Tgt Ion:142 Resp: 2512684

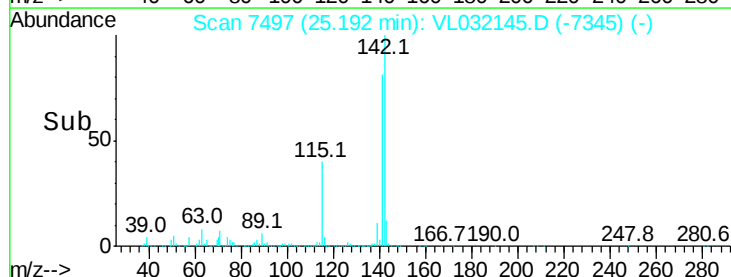
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 83.5  | 65.8  | 98.6  |
| 115 | 39.4  | 29.4  | 44.0  |



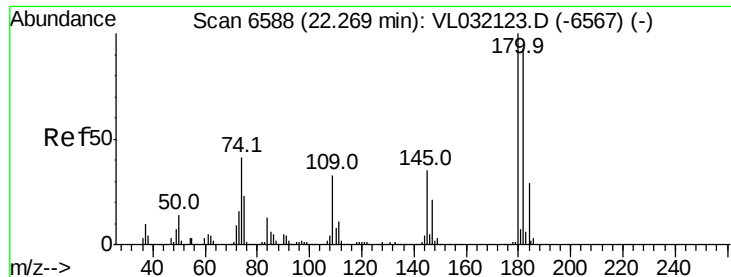
Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time--> 25.00 25.20 25.40



#81  
 1,2,4-Trichlorobenzene  
 Concen: 8.506 ppbv  
 RT: 22.26 min Scan# 6585  
 Delta R.T. -0.01 min  
 Lab File: VL032145.D  
 Acq: 29 Jun 2018 18:04

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:180 Resp: 2074842  
 Ion Ratio Lower Upper  
 180 100  
 182 96.0 76.2 114.4  
 184 30.8 24.4 36.6

