

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL091018\  
 Data File : VL032484.D  
 Acq On : 10 Sep 2018 18:07  
 Operator : SY/AP  
 Sample : VL0910ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

Quant Time: Sep 11 01:10:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL083118AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 31 21:33:46 2018  
 QLast Update : Fri Aug 31 21:33:46 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.80  | 49   | 1567413  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.34  | 114  | 3944410  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.29 | 117  | 4523400  | 10.00 | ppbv  | -0.01    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.62  | 95    | 2859555  | 8.51     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 85.10% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.10 | 85   | 1449257  | 7.228  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 3.04 | 51   | 1226282  | 8.643  | ppbv   | 99     |
| 4) Chloromethane               | 3.19 | 50   | 729260   | 8.488  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.32 | 62   | 686108   | 8.091  | ppbv   | 97     |
| 6) Bromomethane                | 3.54 | 94   | 382457   | 8.592  | ppbv   | 98     |
| 7) Chloroethane                | 3.63 | 64   | 253120   | 8.624  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane   | 3.25 | 85   | 1451425  | 8.156  | ppbv   | 100    |
| 9) Propene                     | 3.06 | 41   | 606281   | 10.593 | ppbv   | 100    |
| 10) Heptane                    | 8.29 | 43   | 2338714  | 11.390 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 4.04 | 101  | 1463642  | 8.096  | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.59 | 101  | 1218657  | 9.948  | ppbv   | 100    |
| 13) Ethanol                    | 3.68 | 45   | 142152   | 7.968  | ppbv   | 97     |
| 14) Bromoethene                | 3.82 | 108  | 462112   | 8.903  | ppbv   | 99     |
| 15) Acetone                    | 3.93 | 43   | 1139020  | 8.070  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.39 | 39   | 575668   | 8.667  | ppbv   | 93     |
| 17) tert-Butyl alcohol         | 4.39 | 59   | 189821   | 8.739  | ppbv # | 100    |
| 18) 1,1-Dichloroethene         | 4.38 | 96   | 605934   | 10.823 | ppbv   | 95     |
| 19) Isopropyl Alcohol          | 4.05 | 45   | 887273   | 9.582  | ppbv # | 98     |
| 20) Methylene Chloride         | 4.44 | 84   | 540114   | 10.035 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.51 | 41   | 1053140  | 11.234 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 5.00 | 96   | 585091   | 9.631  | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.19 | 43   | 2662300  | 11.379 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.13 | 63   | 1884249  | 9.774  | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.81 | 43   | 3139700  | 9.419  | ppbv   | 100    |
| 26) Hexane                     | 5.82 | 57   | 1450201  | 9.716  | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.65 | 76   | 1521539  | 11.044 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.15 | 73   | 2055361  | 11.216 | ppbv   | 99     |
| 29) Chloroform                 | 5.89 | 83   | 2108064  | 9.264  | ppbv   | 100    |
| 30) Cyclohexane                | 7.29 | 84   | 1427716  | 13.064 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.68 | 61   | 1459595  | 10.800 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.66 | 97   | 2025196  | 9.547  | ppbv   | 99     |
| 34) 2-Butanone                 | 5.36 | 43   | 2133860  | 8.145  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.18 | 117  | 2360676  | 8.904  | ppbv   | 99     |
| 36) Benzene                    | 7.05 | 78   | 3187472  | 9.496  | ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.45 | 62   | 1603527  | 7.795  | ppbv   | 100    |
| 38) Trichloroethene            | 8.00 | 130  | 1157608  | 9.078  | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.78 | 63   | 1384645  | 9.641  | ppbv   | 97     |
| 40) 1,4-Dioxane                | 8.00 | 88   | 448543   | 10.410 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.18 | 42   | 1295466  | 9.083  | ppbv   | 100    |
| 42) Bromodichloromethane       | 7.96 | 83   | 2658420  | 9.370  | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.18 | 69   | 1418012  | 9.957  | ppbv   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL091018\  
 Data File : VL032484.D  
 Acq On : 10 Sep 2018 18:07  
 Operator : SY/AP  
 Sample : VL0910ABS01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

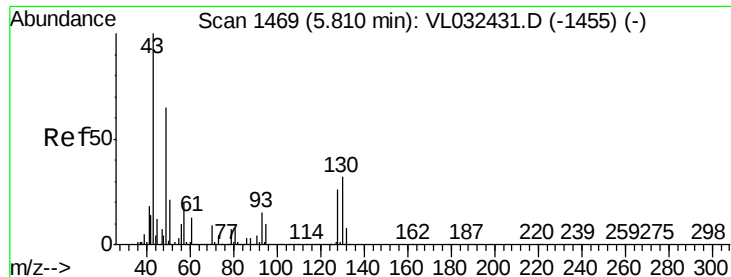
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

Quant Time: Sep 11 01:10:48 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL083118AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 31 21:33:46 2018  
 QLast Update : Fri Aug 31 21:33:46 2018  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| 44) 2,2,4-Trimethylpentane    | 8.03  | 57   | 6032045  | 9.295  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.46  | 75   | 1808087  | 11.865 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.88  | 75   | 2050942  | 10.533 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.66  | 97   | 1405559  | 9.205  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.50 | 129  | 2224583  | 10.519 | ppbv   | 100      |
| 49) Bromoform                 | 13.25 | 173  | 1635260  | 8.896  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.91  | 43   | 3543865  | 8.979  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.32 | 43   | 3083831  | 12.131 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.42 | 164  | 946382   | 9.092  | ppbv   | 98       |
| 53) Toluene                   | 9.99  | 91   | 3935418  | 11.216 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.81 | 107  | 2065218  | 10.074 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.33 | 131  | 1420056  | 6.963  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.35 | 112  | 2611469  | 7.224  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.91 | 91   | 4720501  | 8.720  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.20 | 91   | 3428222  | 7.104  | ppbv # | 31       |
| 60) o-Xylene                  | 13.89 | 91   | 3769171  | 7.951  | ppbv   | 99       |
| 61) Styrene                   | 13.73 | 104  | 2816016  | 9.176  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.87 | 105  | 5321558  | 7.985  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.89 | 83   | 2794454  | 6.593  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.77 | 120  | 1380381  | 7.923  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.96 | 119  | 4448973  | 7.747  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.20 | 91   | 2630844  | 8.224  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.50 | 105  | 6598118  | 7.640  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.87 | 119  | 5260428  | 7.860  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.76 | 91   | 5730482  | 7.553  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.66 | 91   | 4151729  | 8.155  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 16.05 | 105  | 4311404  | 8.330  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.20 | 105  | 4091401  | 7.890  | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.97 | 105  | 4140350  | 7.304  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 17.21 | 146  | 2279589  | 6.777  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.35 | 146  | 2282150  | 7.312  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 18.04 | 146  | 2251483  | 6.938  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.59 | 225  | 693252   | 5.717  | ppbv   | 100      |
| 79) Naphthalene               | 22.47 | 128  | 3448271  | 7.480  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 25.15 | 142  | 1094455  | 8.923  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 22.19 | 180  | 964169   | 4.153  | ppbv # | 12       |
| -----                         |       |      |          |        |        |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

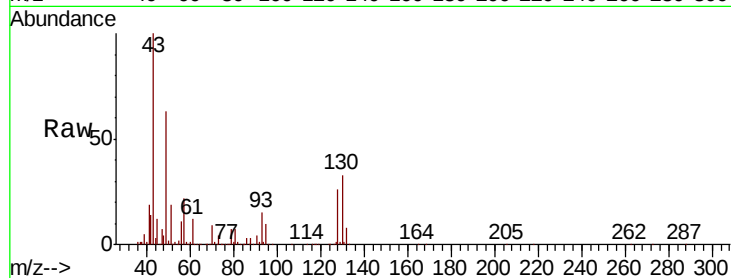
Tgt Ion: 49 Resp: 1567413

Ion Ratio Lower Upper

49 100

128 41.2 20.7 62.1

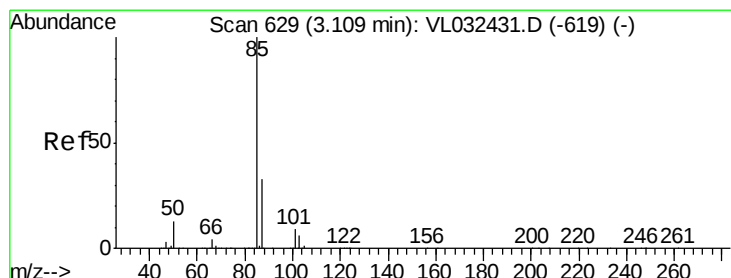
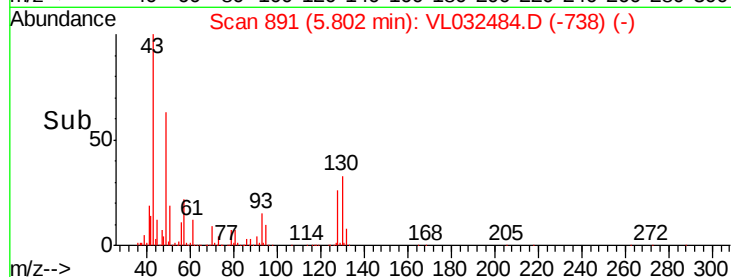
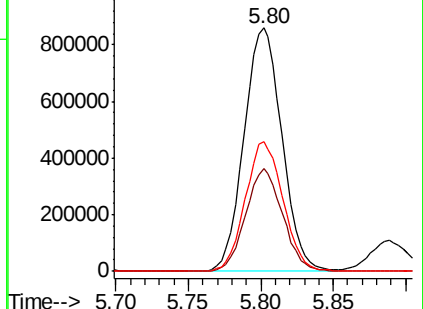
130 53.3 26.6 79.7



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: 7.228 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032484.D

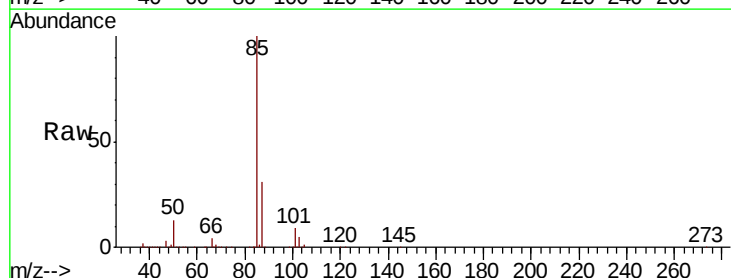
Acq: 10 Sep 2018 18:07

Tgt Ion: 85 Resp: 1449257

Ion Ratio Lower Upper

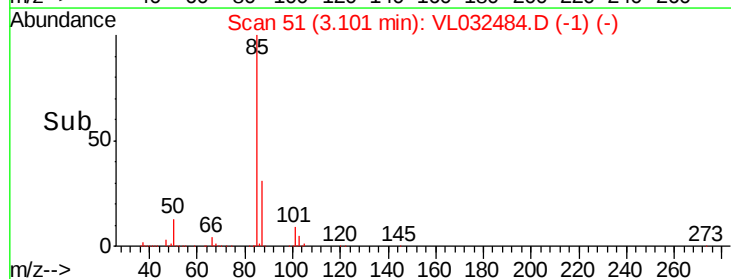
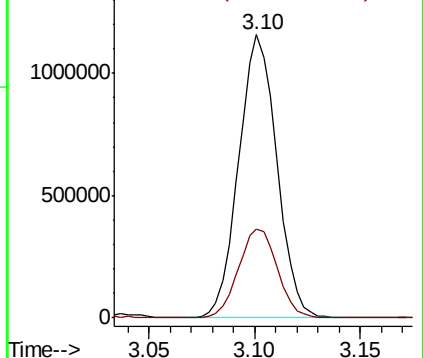
85 100

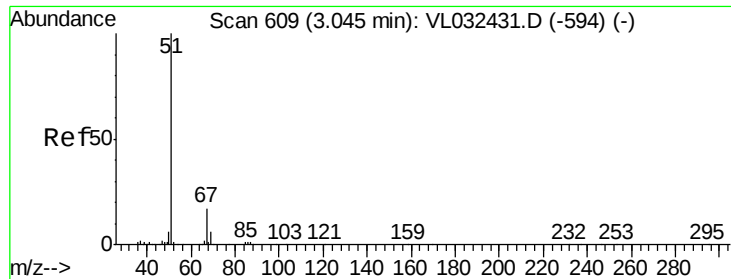
87 31.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.643 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

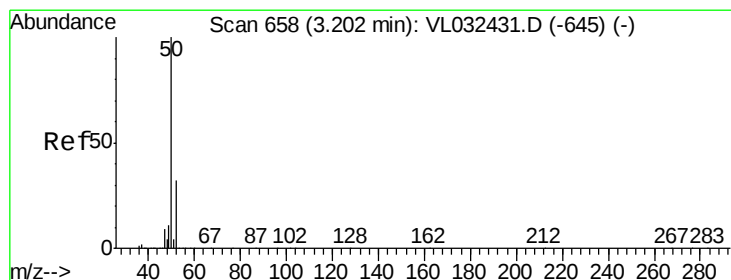
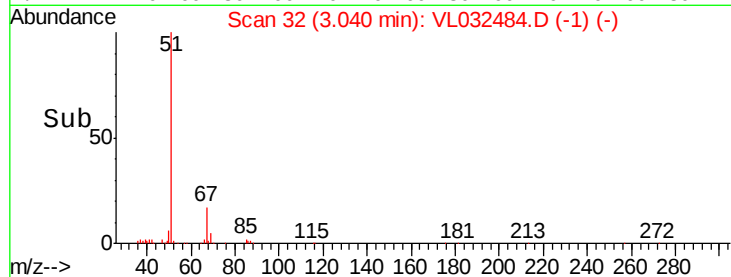
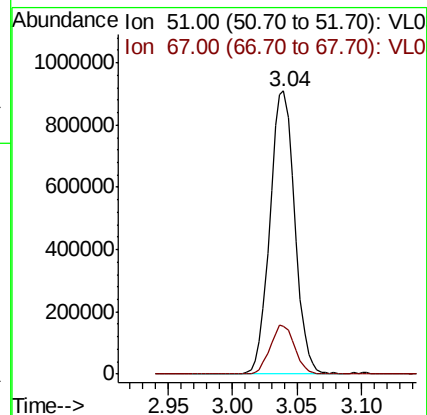
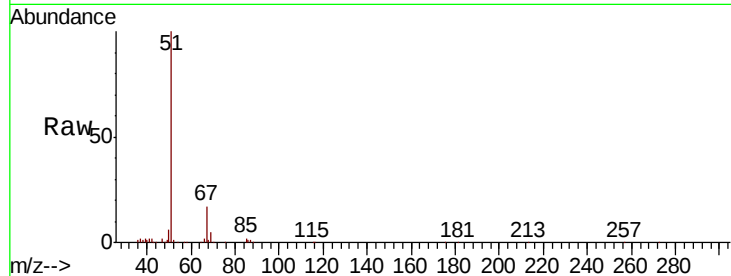
VL0910ABS01

Tgt Ion: 51 Resp: 1226282

Ion Ratio Lower Upper

51 100

67 17.1 13.8 20.8



#4

Chloromethane

Concen: 8.488 ppbv

RT: 3.19 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL032484.D

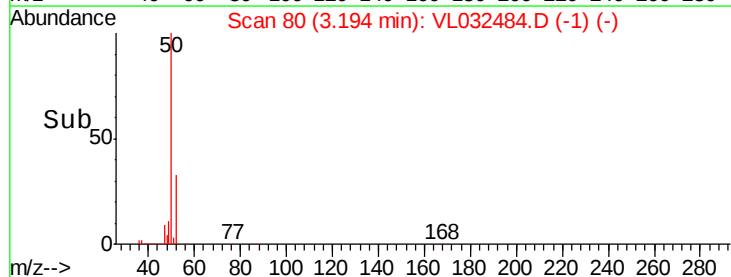
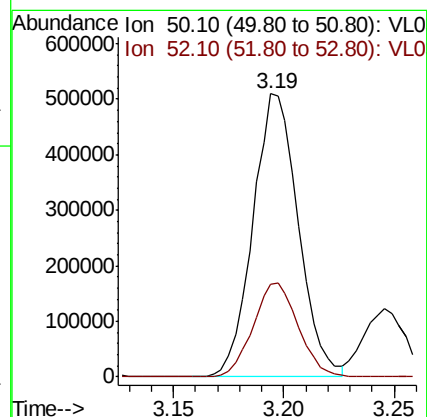
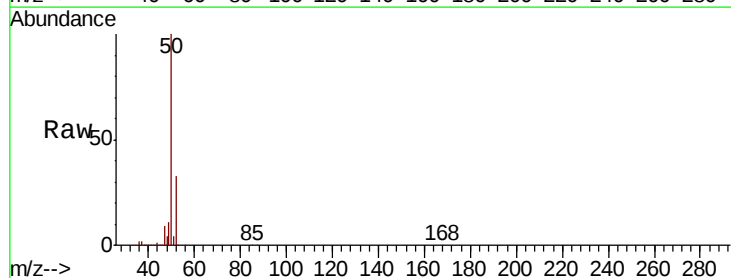
Acq: 10 Sep 2018 18:07

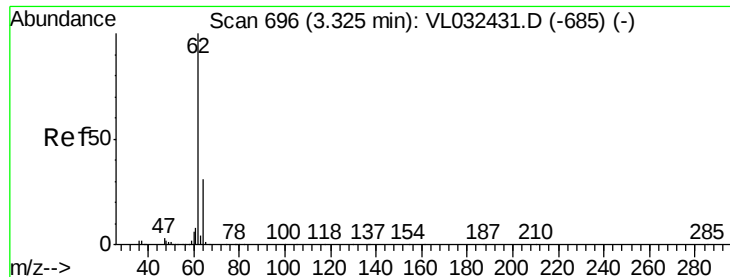
Tgt Ion: 50 Resp: 729260

Ion Ratio Lower Upper

50 100

52 32.6 25.6 38.4





#5

Vinyl Chloride

Concen: 8.091 ppbv

RT: 3.32 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

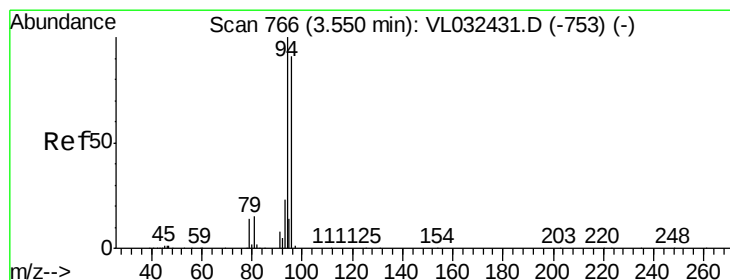
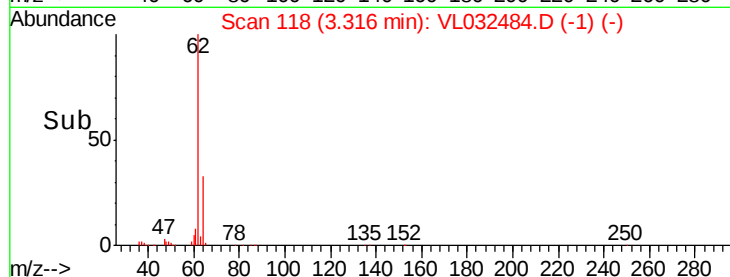
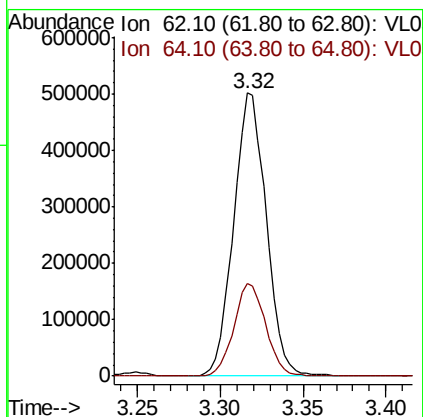
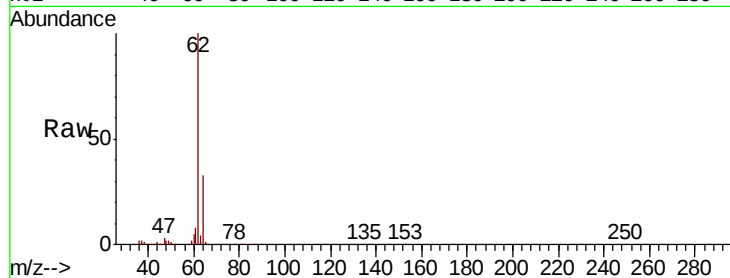
VL0910ABS01

Tgt Ion: 62 Resp: 686108

Ion Ratio Lower Upper

62 100

64 32.8 25.0 37.6



#6

Bromomethane

Concen: 8.592 ppbv

RT: 3.54 min Scan# 189

Delta R.T. -0.01 min

Lab File: VL032484.D

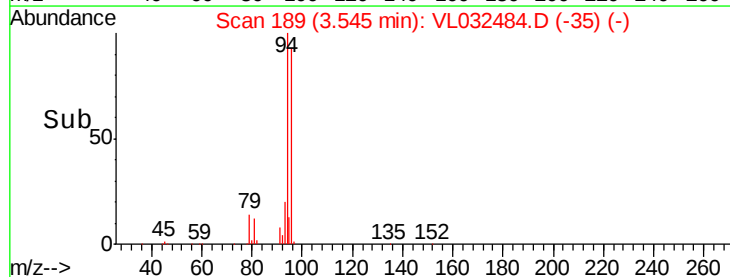
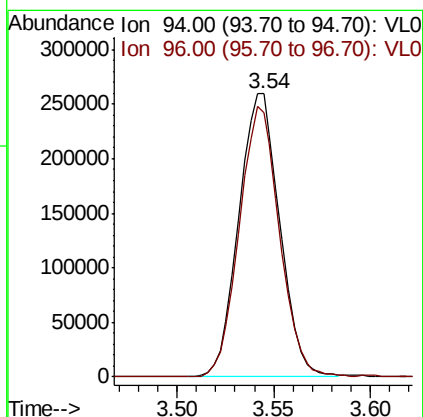
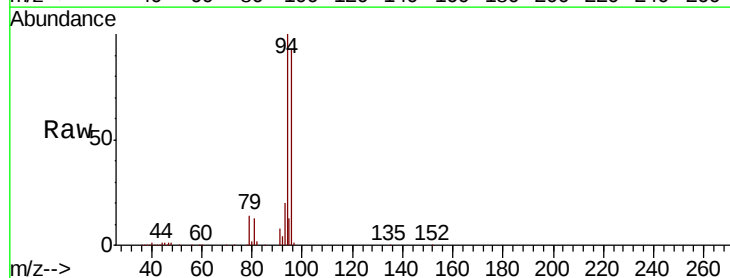
Acq: 10 Sep 2018 18:07

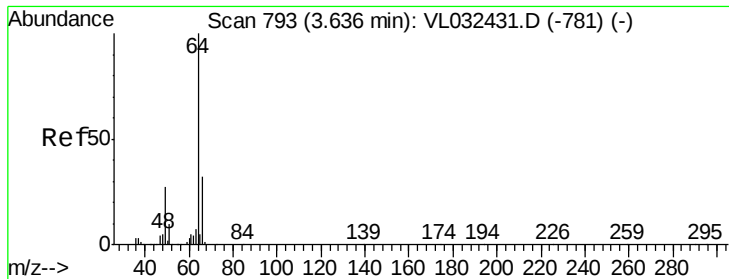
Tgt Ion: 94 Resp: 382457

Ion Ratio Lower Upper

94 100

96 93.2 72.8 109.2





#7

Chloroethane

Concen: 8.624 ppbv

RT: 3.63 min Scan# 215

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

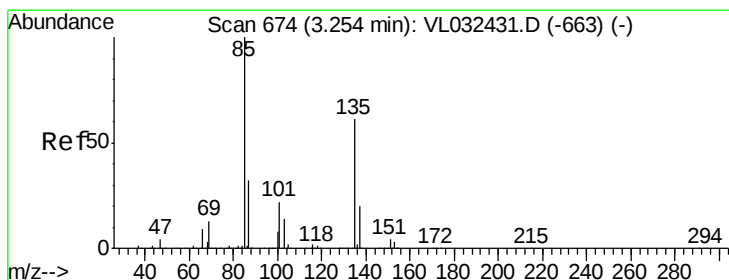
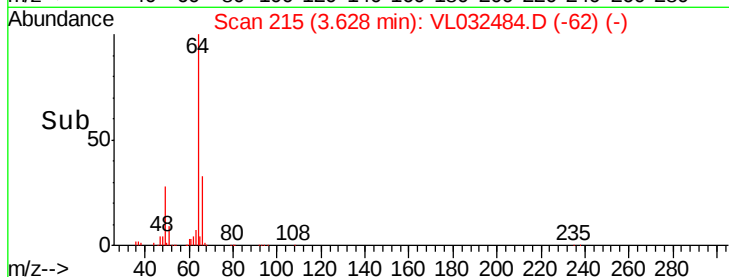
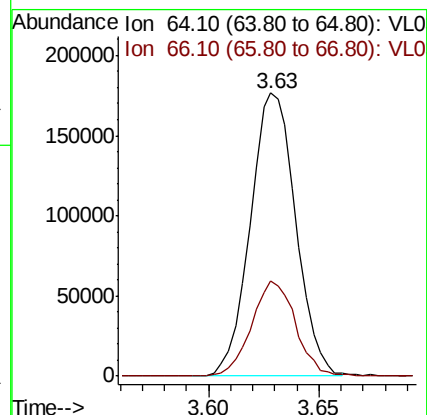
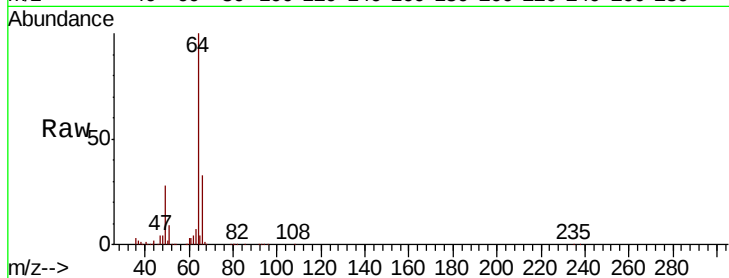
VL0910ABS01

Tgt Ion: 64 Resp: 253120

Ion Ratio Lower Upper

64 100

66 33.5 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 8.156 ppbv

RT: 3.25 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL032484.D

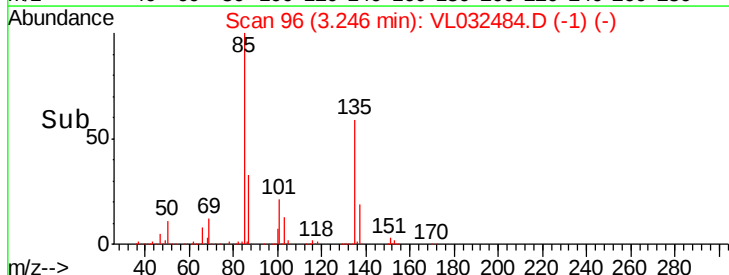
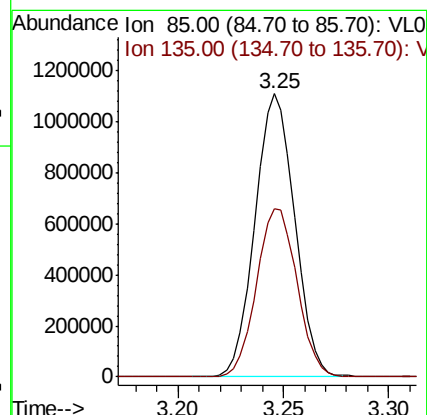
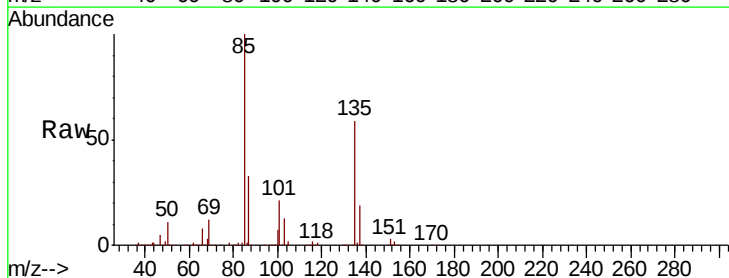
Acq: 10 Sep 2018 18:07

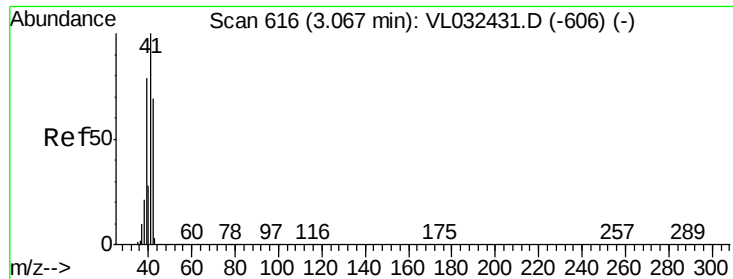
Tgt Ion: 85 Resp: 1451425

Ion Ratio Lower Upper

85 100

135 60.9 48.6 72.8





#9

Propene

Concen: 10.593 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

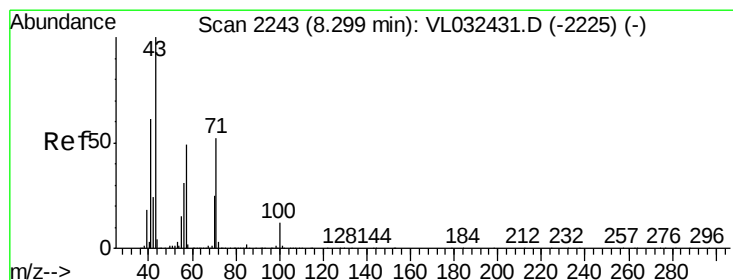
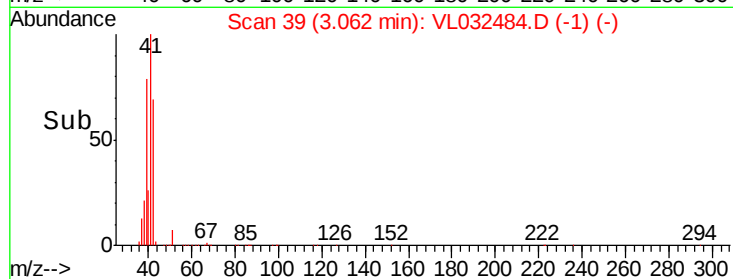
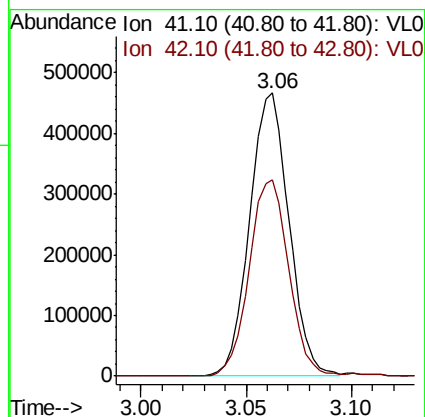
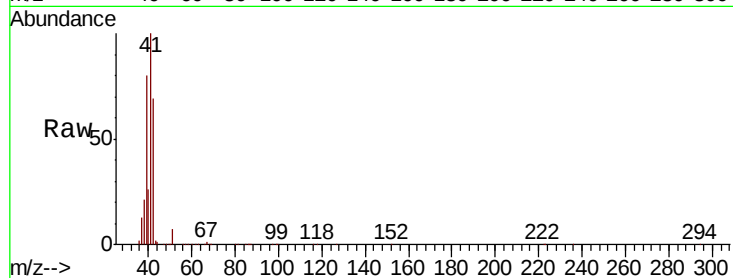
VL0910ABS01

Tgt Ion: 41 Resp: 606281

Ion Ratio Lower Upper

41 100

42 70.6 56.6 84.8



#10

Heptane

Concen: 11.390 ppbv

RT: 8.29 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL032484.D

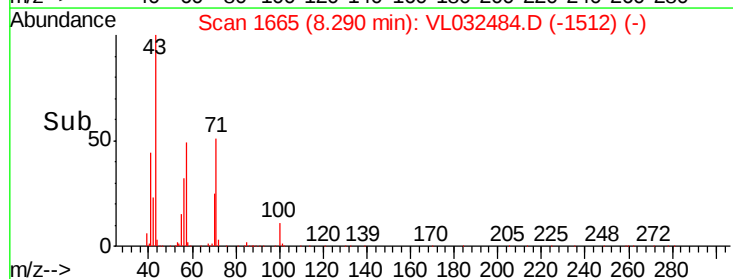
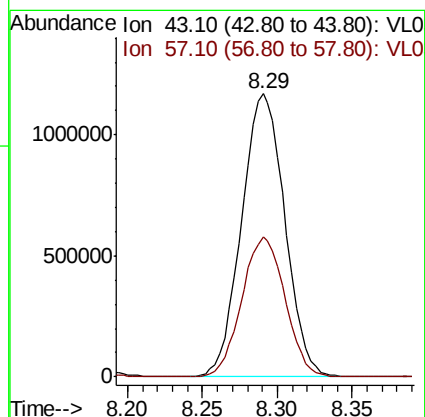
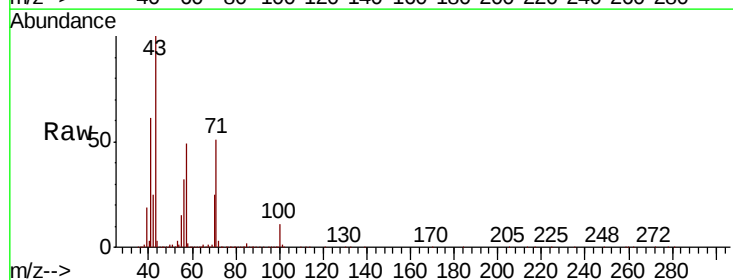
Acq: 10 Sep 2018 18:07

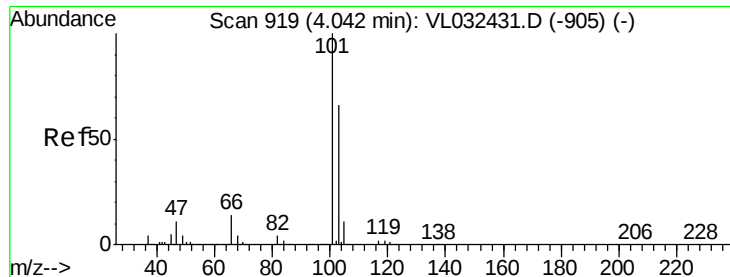
Tgt Ion: 43 Resp: 2338714

Ion Ratio Lower Upper

43 100

57 49.7 39.6 59.4





#11

Trichlorofluoromethane

Concen: 8.096 ppbv

RT: 4.04 min Scan# 342

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

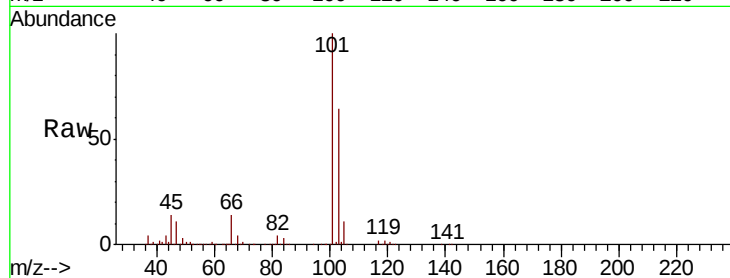
VL0910ABS01

Tgt Ion:101 Resp: 1463642

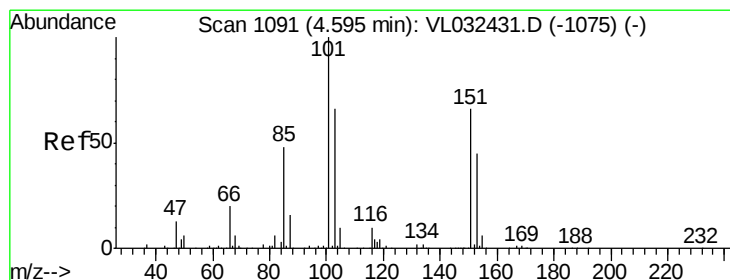
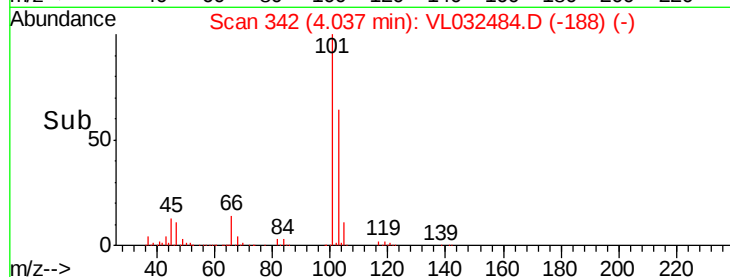
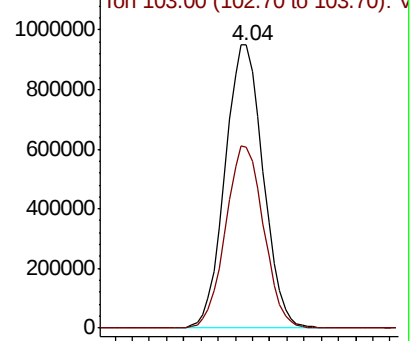
Ion Ratio Lower Upper

101 100

103 64.0 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.948 ppbv

RT: 4.59 min Scan# 513

Delta R.T. -0.01 min

Lab File: VL032484.D

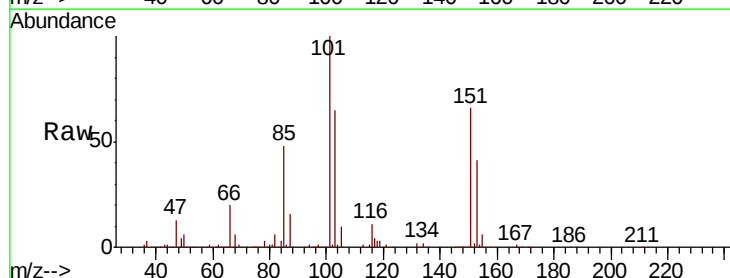
Acq: 10 Sep 2018 18:07

Tgt Ion:101 Resp: 1218657

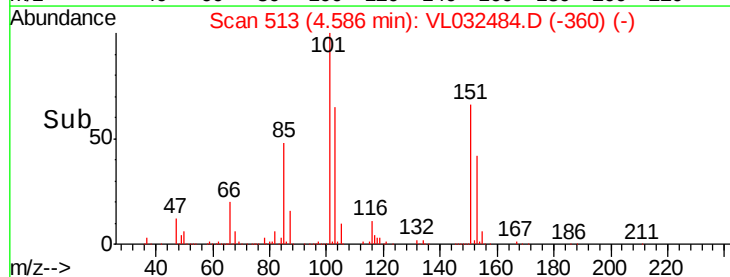
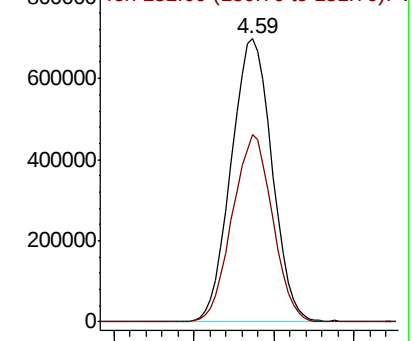
Ion Ratio Lower Upper

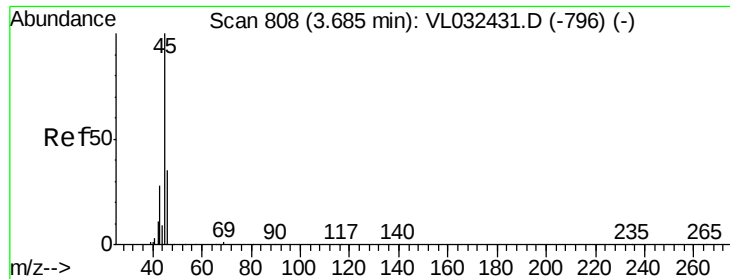
101 100

151 65.5 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V





#13

Ethanol

Concen: 7.968 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

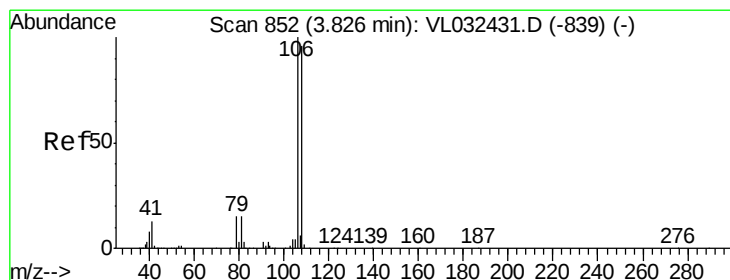
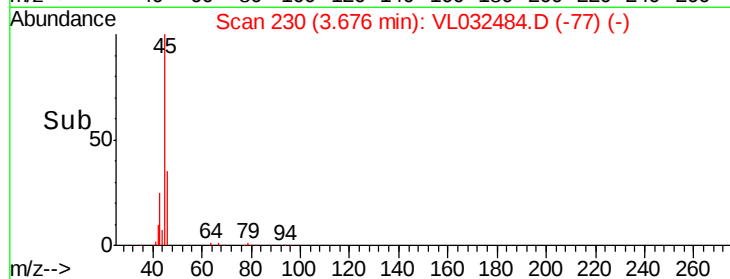
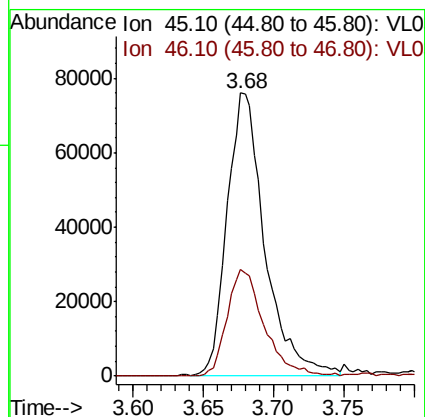
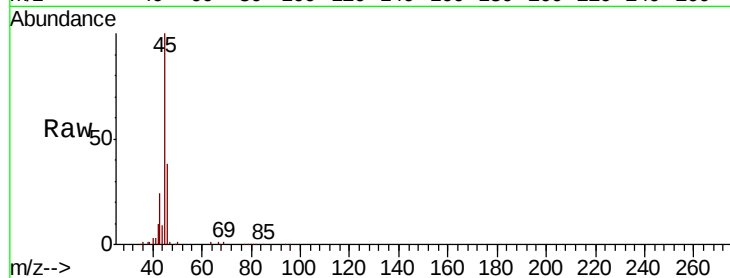
VL0910ABS01

Tgt Ion: 45 Resp: 142152

Ion Ratio Lower Upper

45 100

46 37.1 14.2 56.8



#14

Bromoethene

Concen: 8.903 ppbv

RT: 3.82 min Scan# 274

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

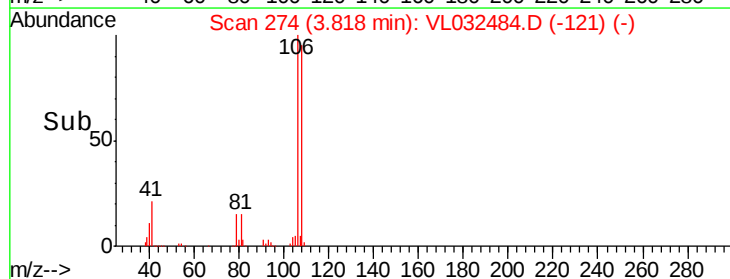
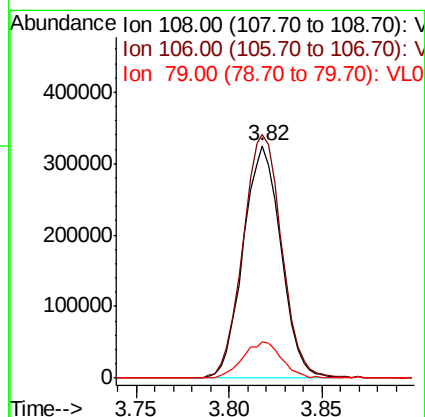
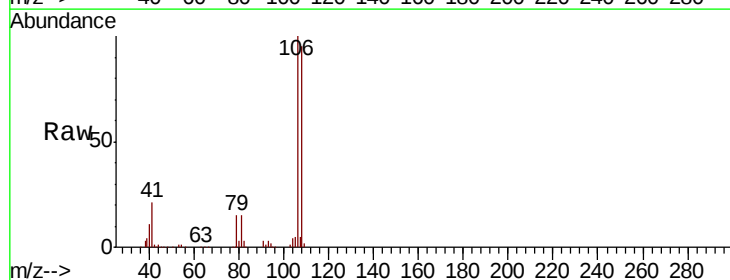
Tgt Ion: 108 Resp: 462112

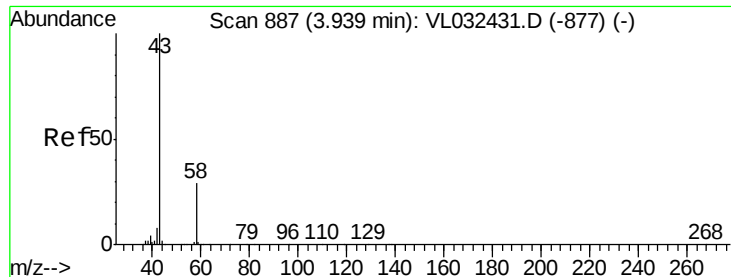
Ion Ratio Lower Upper

108 100

106 107.6 85.5 128.3

79 16.4 13.0 19.6

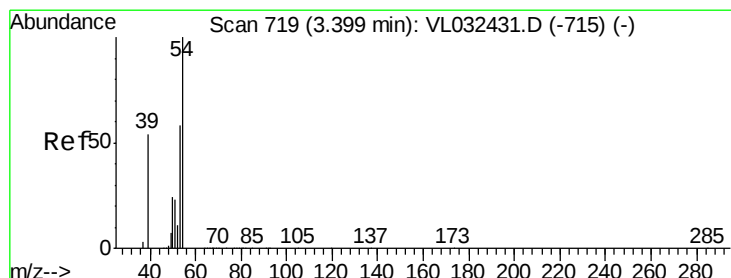
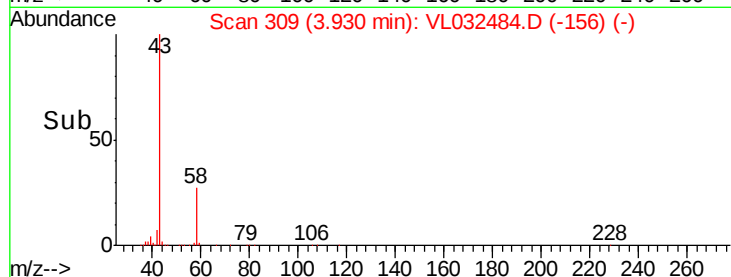
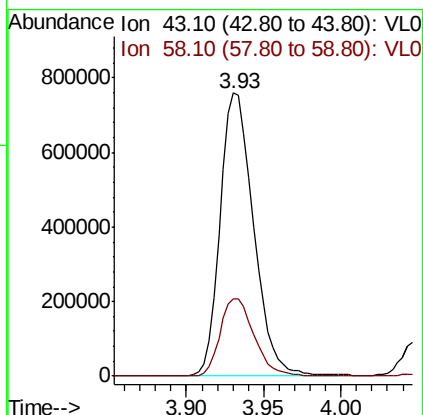
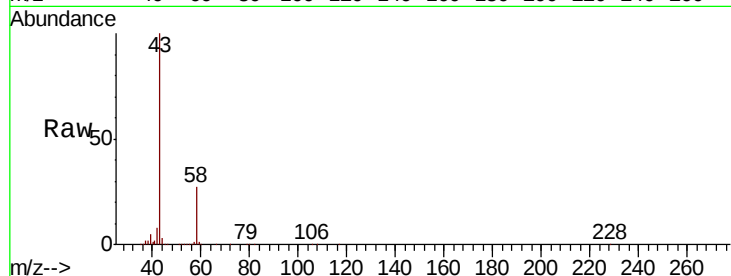




#15  
Acetone  
Concen: 8.070 ppbv  
RT: 3.93 min Scan# 309  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

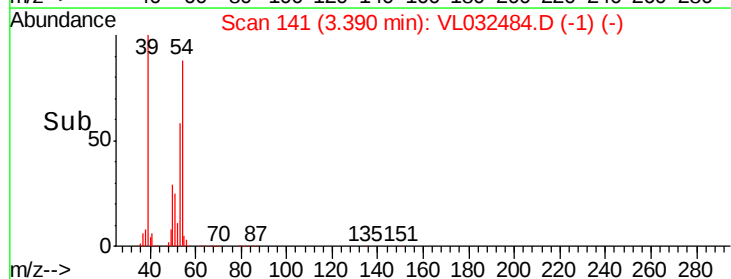
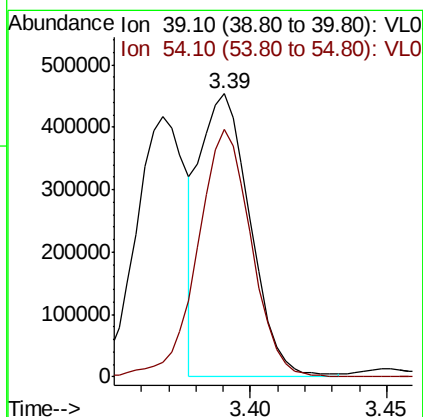
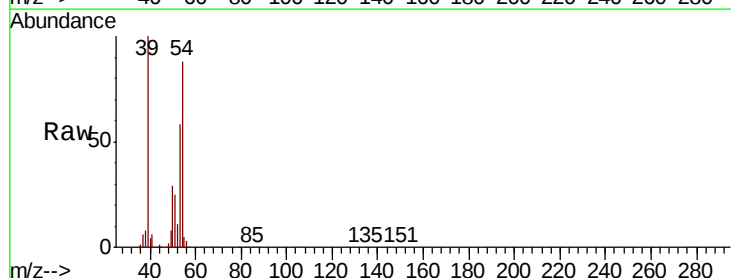
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

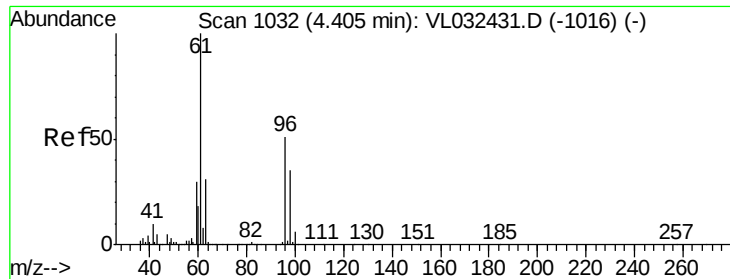
Tgt Ion: 43 Resp: 1139020  
Ion Ratio Lower Upper  
43 100  
58 27.9 22.6 33.8



#16  
1,3-Butadiene  
Concen: 8.667 ppbv  
RT: 3.39 min Scan# 141  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 39 Resp: 575668  
Ion Ratio Lower Upper  
39 100  
54 94.4 80.8 121.2



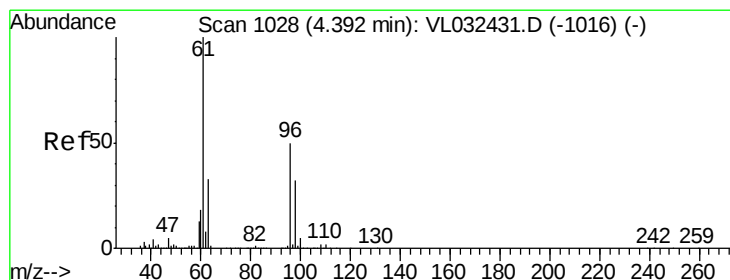
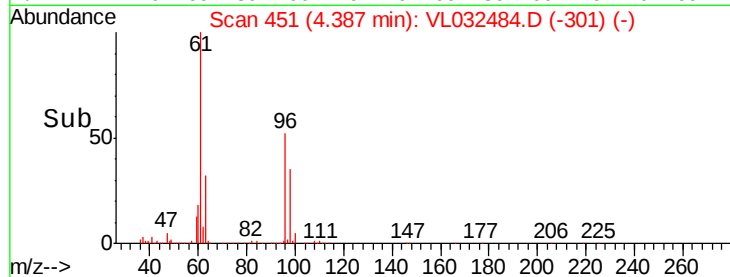
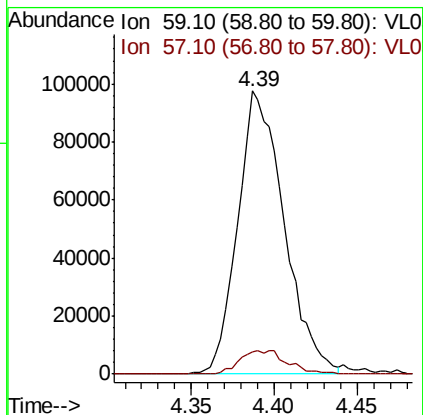
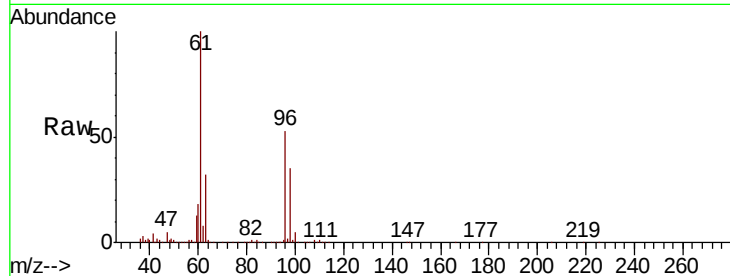


#17

tert-Butyl alcohol  
 Concen: 8.739 ppbv  
 RT: 4.39 min Scan# 451  
 Delta R.T. -0.02 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

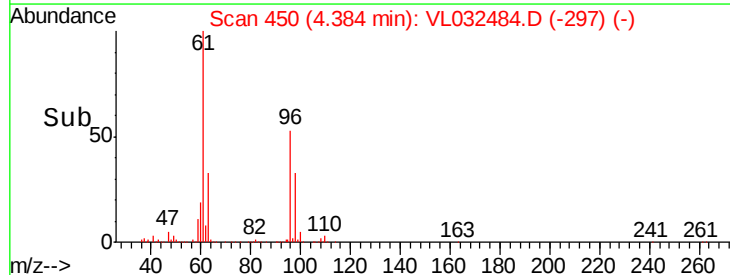
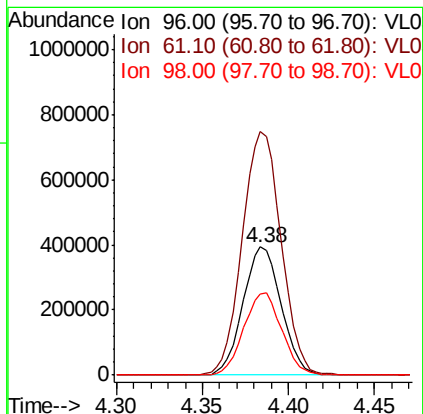
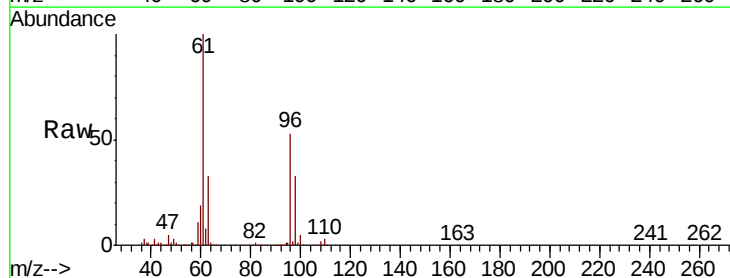
Tgt Ion: 59 Resp: 189821  
 Ion Ratio Lower Upper  
 59 100  
 57 8.7 0.0 0.0#

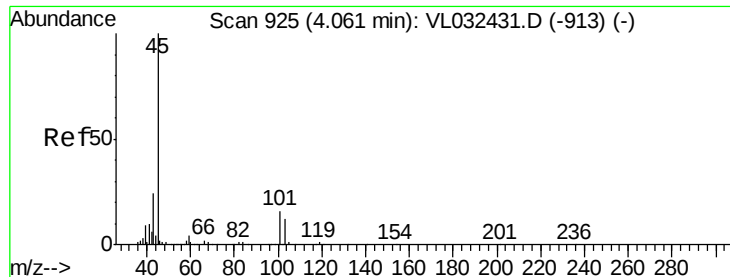


#18

1,1-Dichloroethene  
 Concen: 10.823 ppbv  
 RT: 4.38 min Scan# 450  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 96 Resp: 605934  
 Ion Ratio Lower Upper  
 96 100  
 61 189.8 159.2 238.8  
 98 63.1 51.0 76.4





#19

Isopropyl Alcohol

Concen: 9.582 ppbv

RT: 4.05 min Scan# 347

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

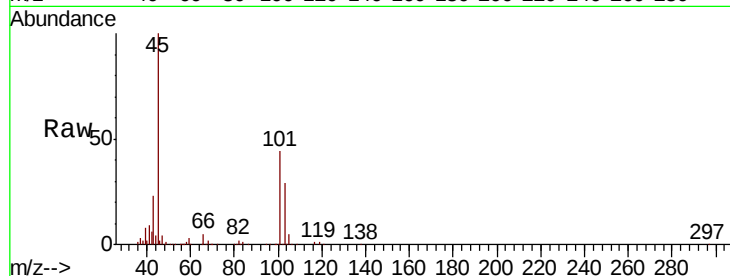
VL0910ABS01

Tgt Ion: 45 Resp: 887273

Ion Ratio Lower Upper

45 100

58 1.7 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

500000

400000

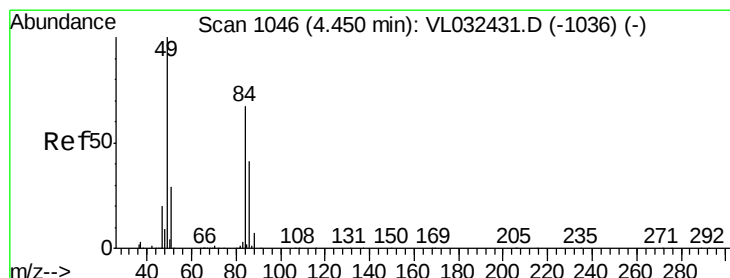
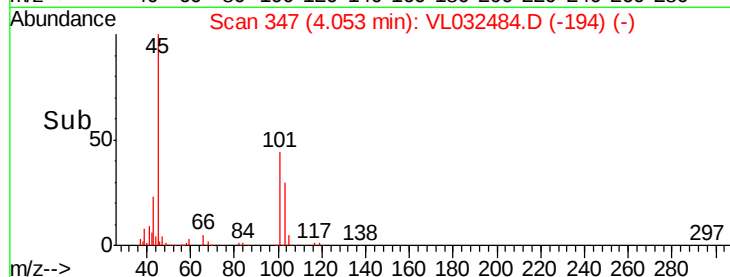
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.035 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Tgt Ion: 84 Resp: 540114

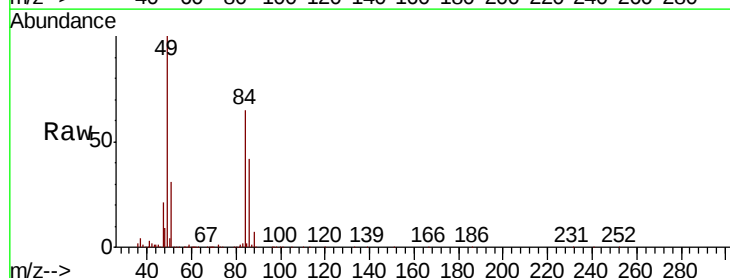
Ion Ratio Lower Upper

84 100

49 154.5 119.1 178.7

51 47.4 35.2 52.8

86 64.7 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

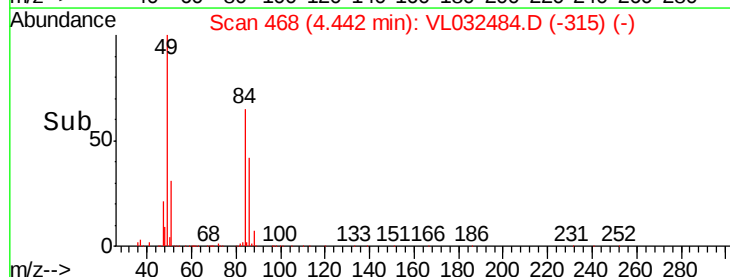
600000

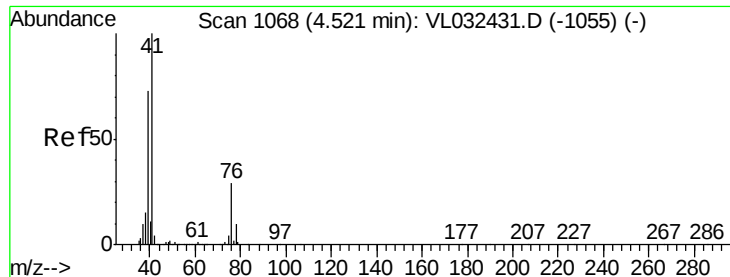
400000

200000

0

Time-->

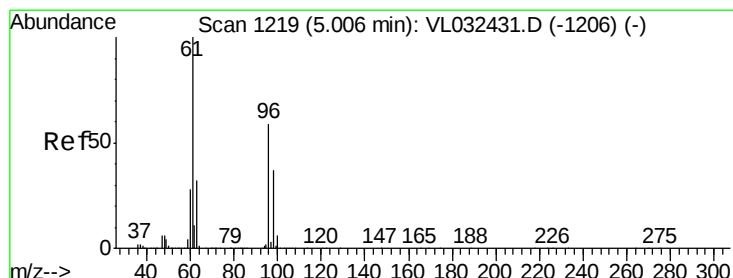
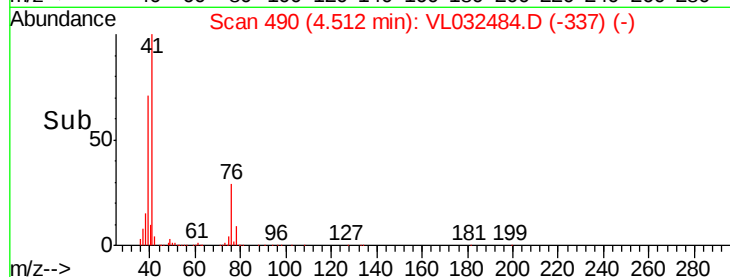
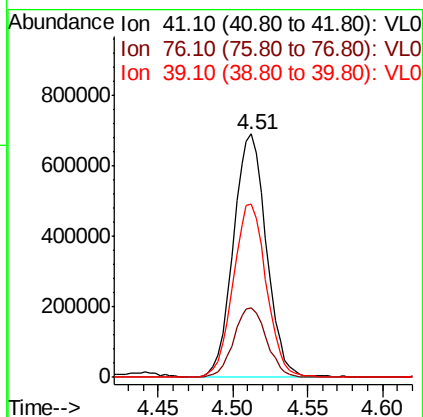
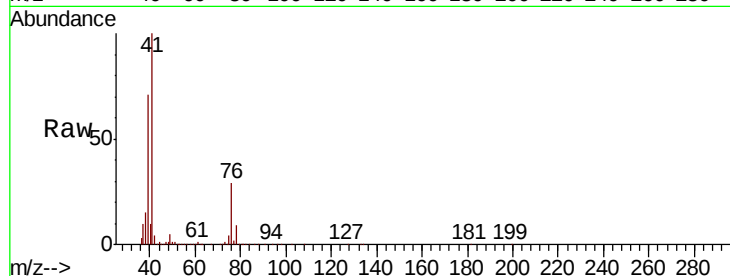




#21  
 Allyl Chloride  
 Concen: 11.234 ppbv  
 RT: 4.51 min Scan# 490  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

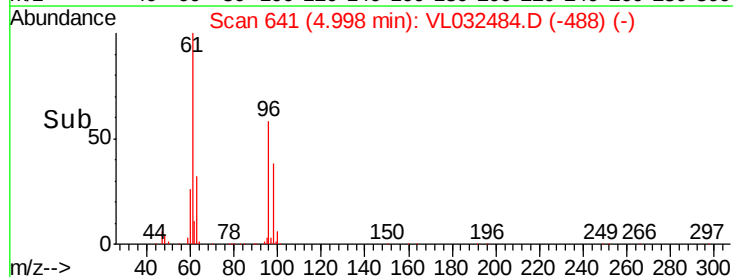
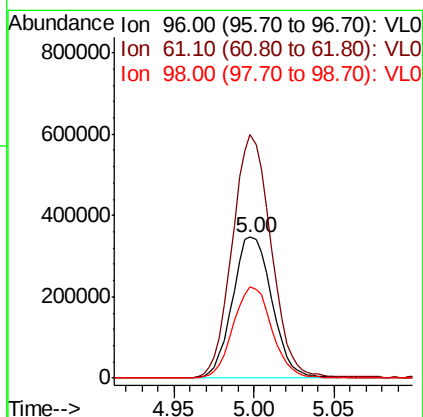
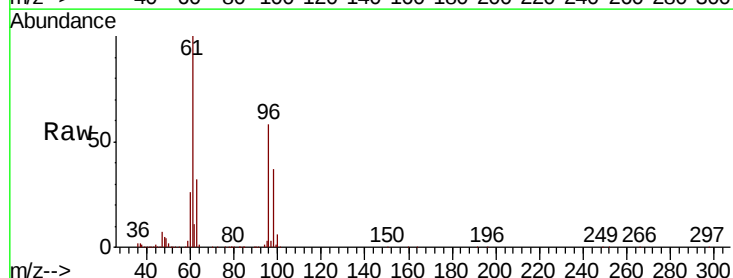
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

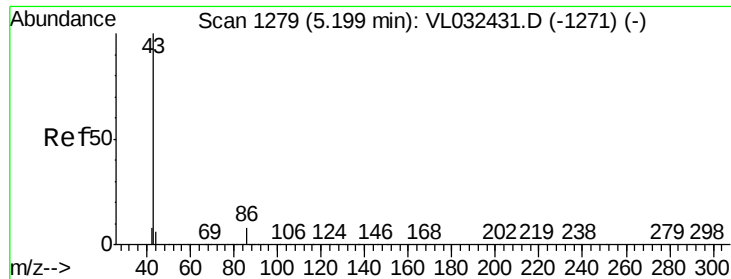
Tgt Ion: 41 Resp: 1053140  
 Ion Ratio Lower Upper  
 41 100  
 76 28.9 23.6 35.4  
 39 71.8 57.7 86.5



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.631 ppbv  
 RT: 5.00 min Scan# 641  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 96 Resp: 585091  
 Ion Ratio Lower Upper  
 96 100  
 61 172.9 136.2 204.4  
 98 64.7 50.4 75.6



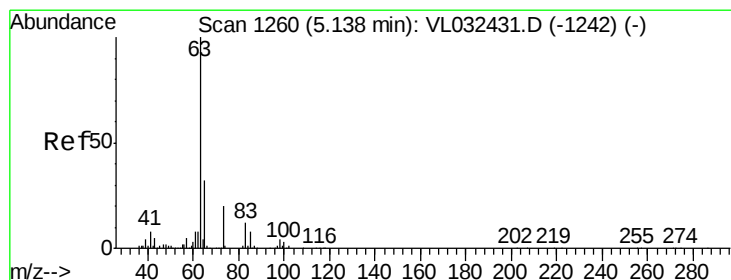
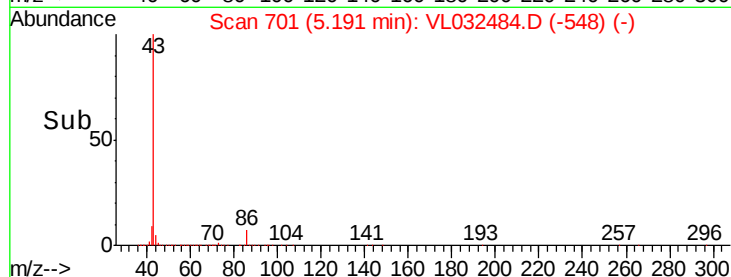
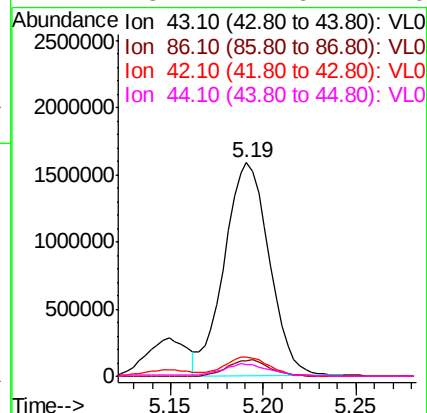
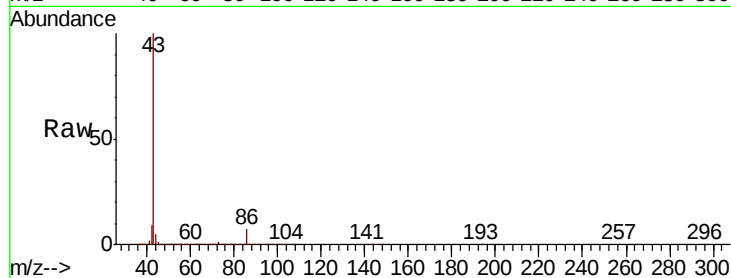


#23  
 Vinyl Acetate  
 Concen: 11.379 ppbv  
 RT: 5.19 min Scan# 701  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

Tgt Ion: 43 Resp: 2662300

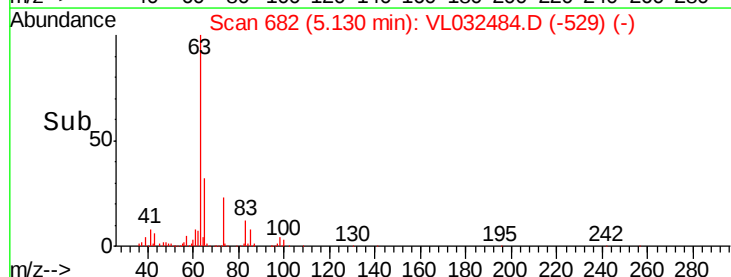
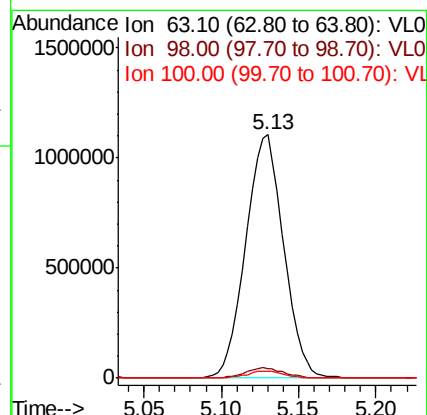
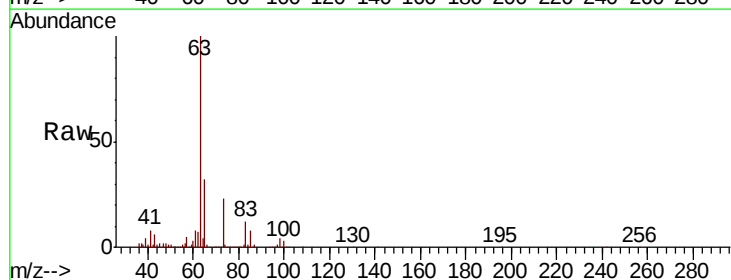
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.5   | 5.9   | 8.9   |
| 42  | 8.9   | 6.9   | 10.3  |
| 44  | 5.1   | 4.6   | 7.0   |

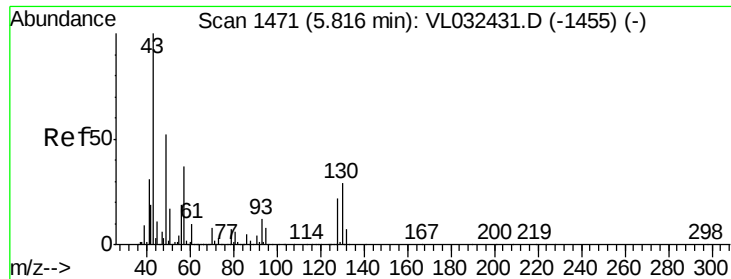


#24  
 1,1-Dichloroethane  
 Concen: 9.774 ppbv  
 RT: 5.13 min Scan# 682  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 63 Resp: 1884249

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.8   | 2.1   | 6.5   |
| 100 | 2.7   | 1.5   | 4.4   |





#25

Ethyl Acetate

Concen: 9.419 ppbv

RT: 5.81 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

Tgt Ion: 43 Resp: 3139700

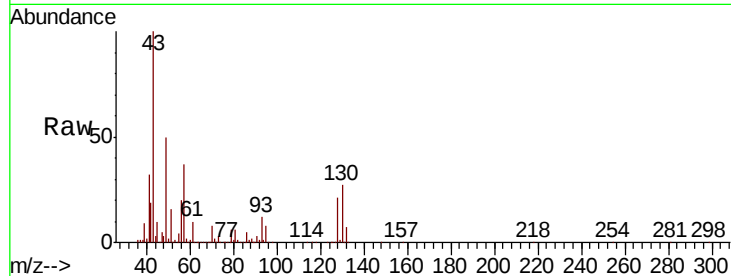
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 8.0   | 12.0  |
| 61  | 9.7   | 7.6   | 11.4  |
| 70  | 7.3   | 5.8   | 8.8   |

43 100

45 10.0 8.0 12.0

61 9.7 7.6 11.4

70 7.3 5.8 8.8



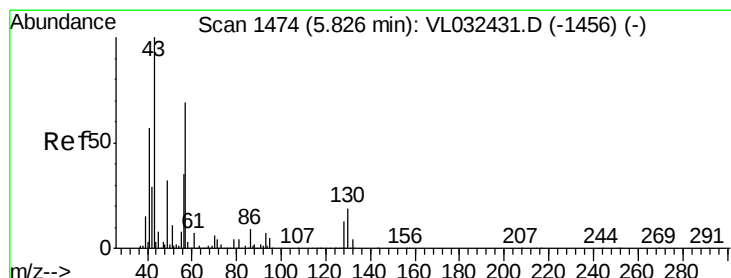
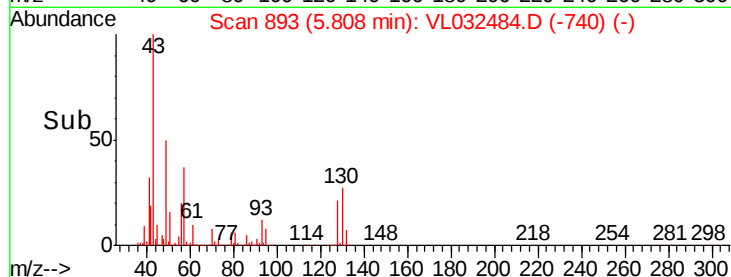
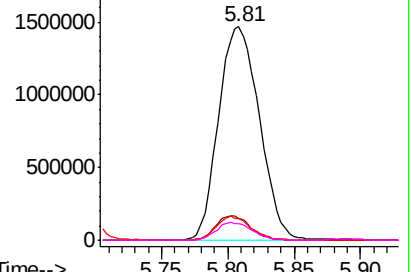
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.716 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Tgt Ion: 57 Resp: 1450201

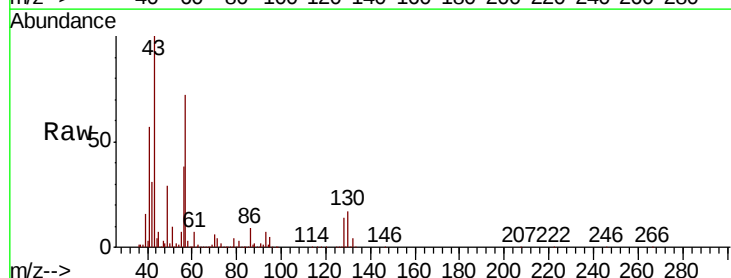
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 85.1  | 69.0  | 103.4 |
| 43  | 217.2 | 172.1 | 258.1 |
| 56  | 52.5  | 42.2  | 63.2  |

57 100

41 85.1 69.0 103.4

43 217.2 172.1 258.1

56 52.5 42.2 63.2



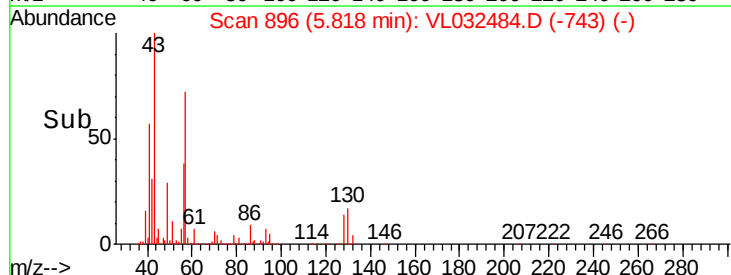
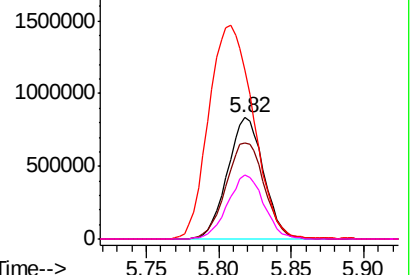
Abundance

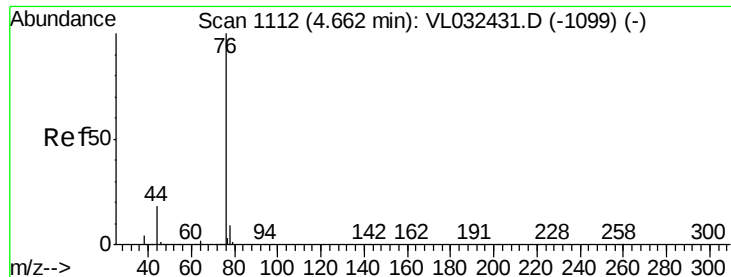
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.044 ppbv

RT: 4.65 min Scan# 534

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

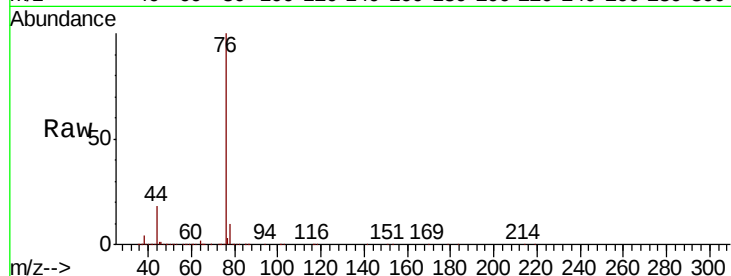
Tgt Ion: 76 Resp: 1521539

Ion Ratio Lower Upper

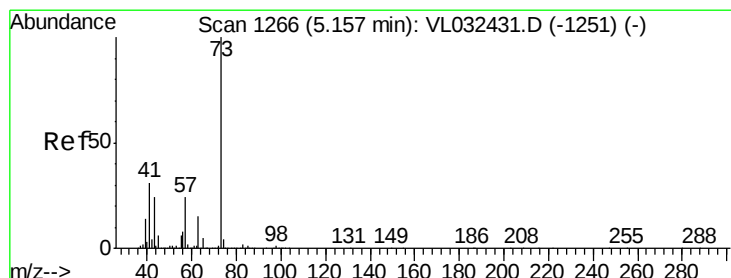
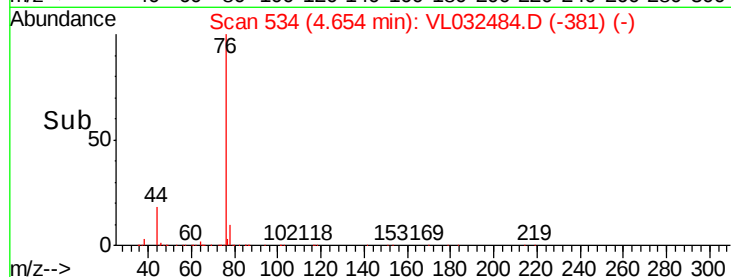
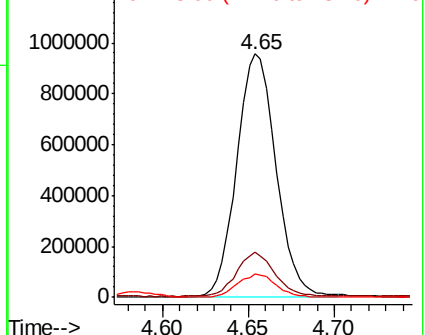
76 100

44 18.0 14.0 21.0

78 9.7 7.5 11.3



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



#28

Methyl tert-Butyl Ether

Concen: 11.216 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL032484.D

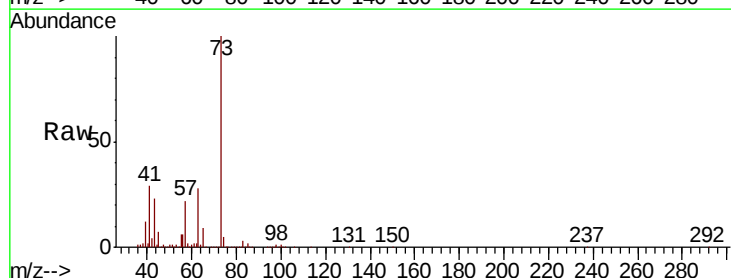
Acq: 10 Sep 2018 18:07

Tgt Ion: 73 Resp: 2055361

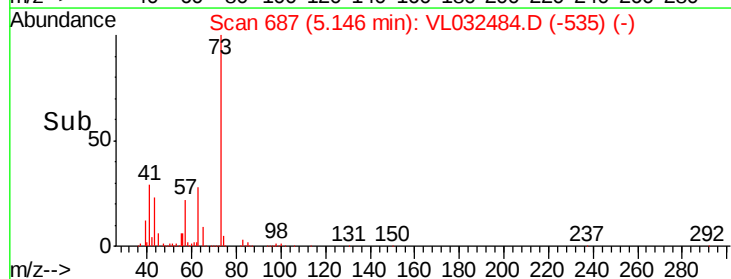
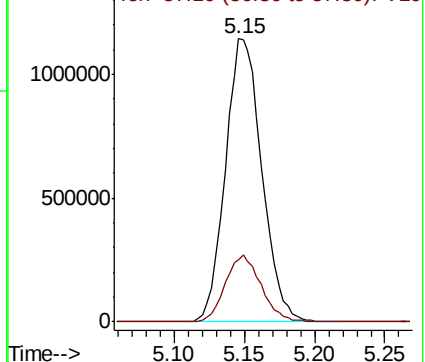
Ion Ratio Lower Upper

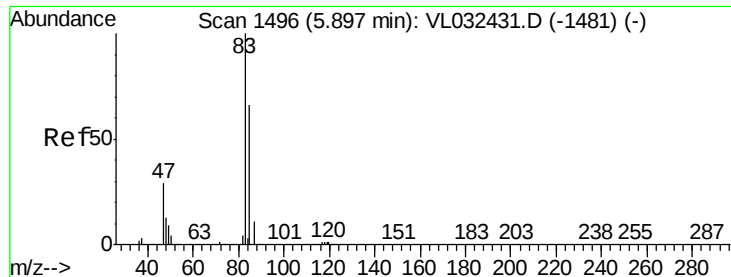
73 100

57 23.4 19.3 28.9



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





#29

Chloroform

Concen: 9.264 ppbv

RT: 5.89 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

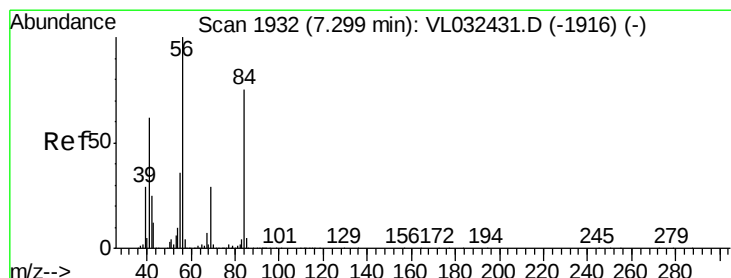
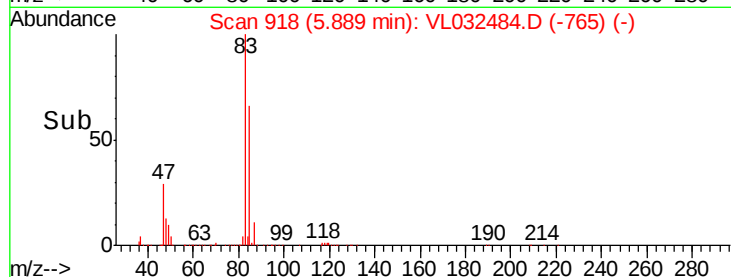
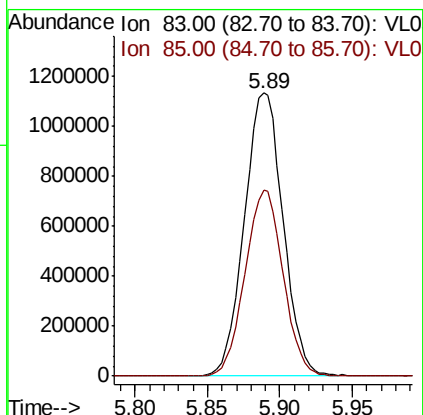
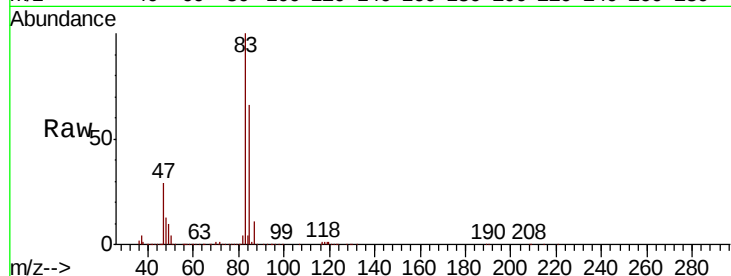
VL0910ABS01

Tgt Ion: 83 Resp: 2108064

Ion Ratio Lower Upper

83 100

85 65.4 52.5 78.7



#30

Cyclohexane

Concen: 13.064 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

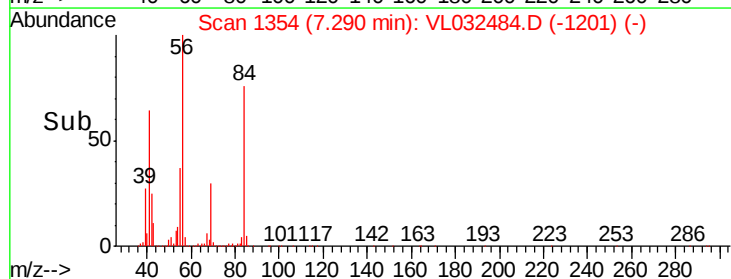
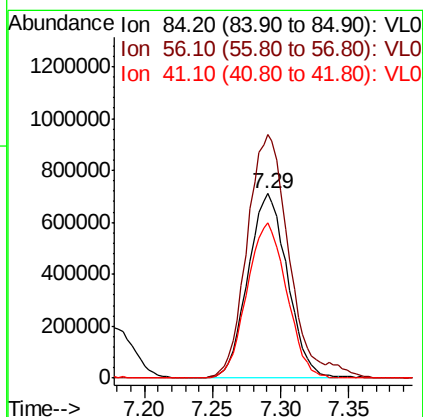
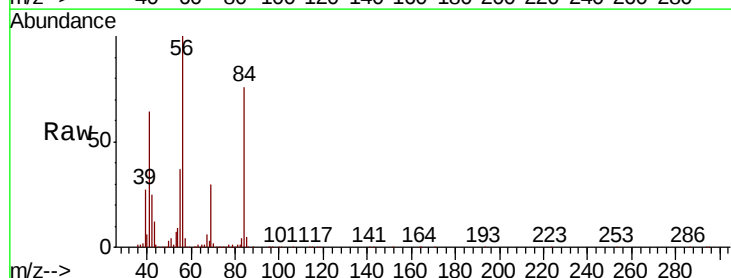
Tgt Ion: 84 Resp: 1427716

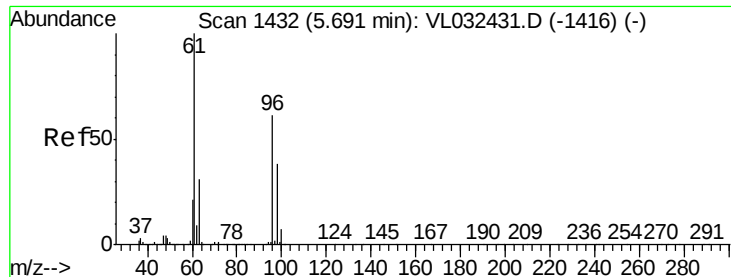
Ion Ratio Lower Upper

84 100

56 141.0 113.5 170.3

41 84.7 68.1 102.1

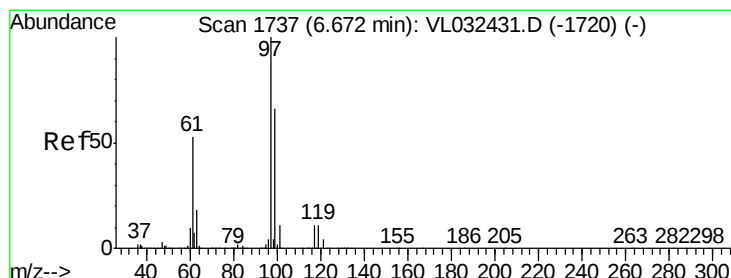
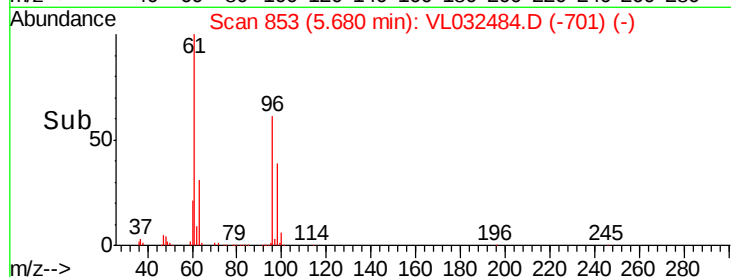
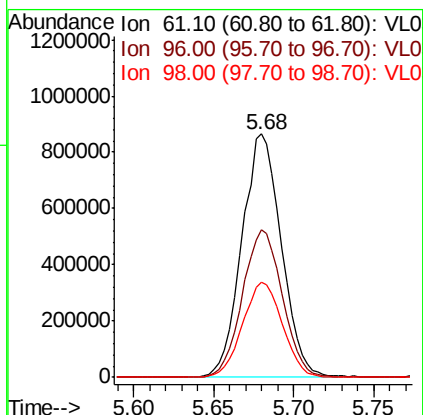
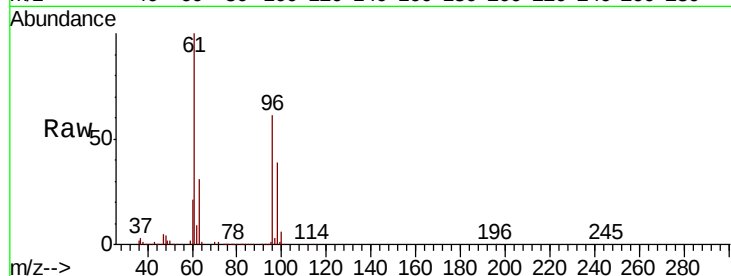




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.800 ppbv  
 RT: 5.68 min Scan# 853  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

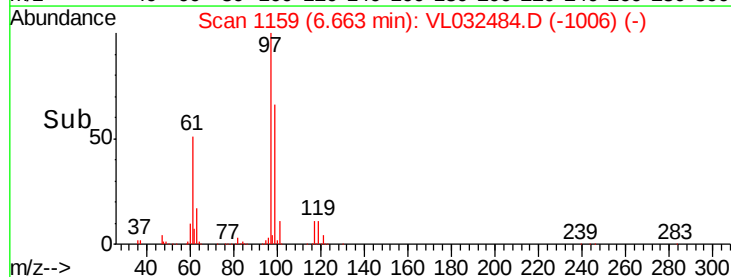
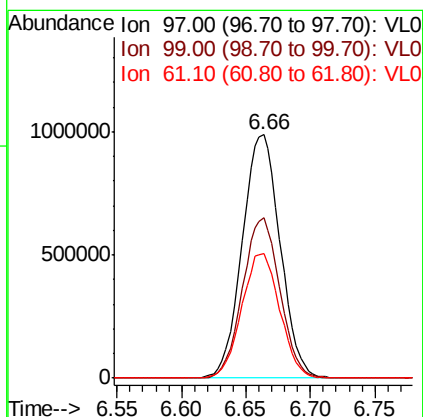
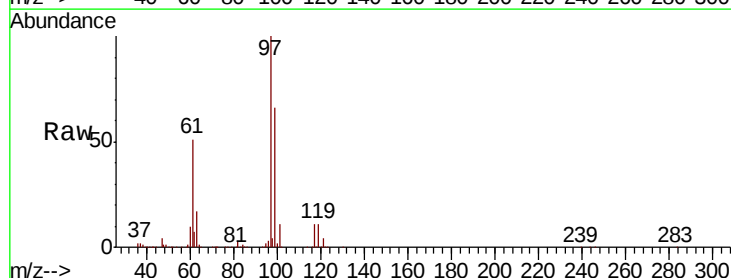
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

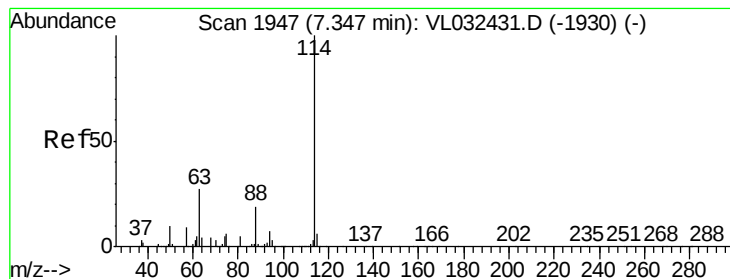
Tgt Ion: 61 Resp: 1459595  
 Ion Ratio Lower Upper  
 61 100  
 96 60.7 49.2 73.8  
 98 39.1 30.7 46.1



#32  
 1,1,1-Trichloroethane  
 Concen: 9.547 ppbv  
 RT: 6.66 min Scan# 1159  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 97 Resp: 2025196  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 52.1 78.1  
 61 51.5 42.5 63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.34 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

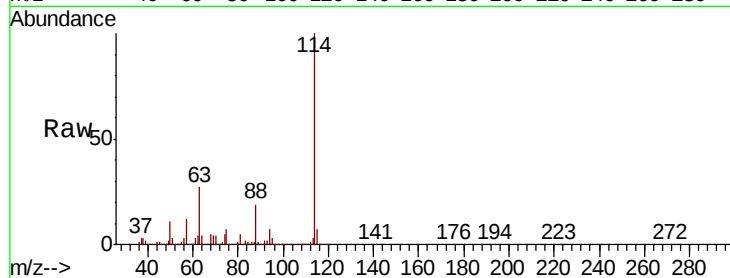
Tgt Ion:114 Resp: 3944410

Ion Ratio Lower Upper

114 100

63 27.6 22.2 33.4

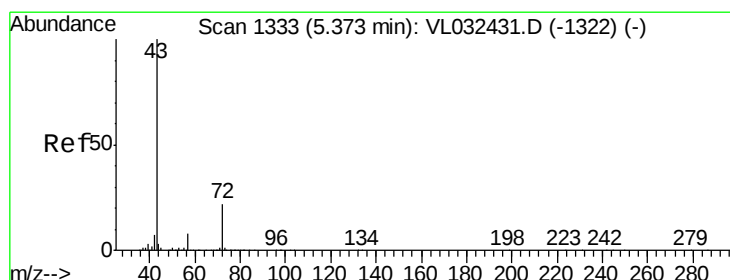
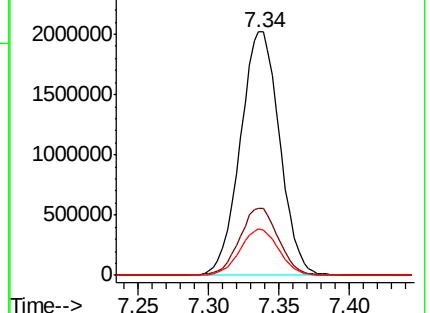
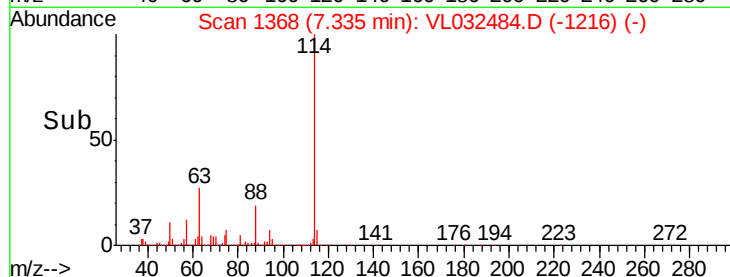
88 18.8 15.0 22.4



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: 8.145 ppbv

RT: 5.36 min Scan# 755

Delta R.T. -0.01 min

Lab File: VL032484.D

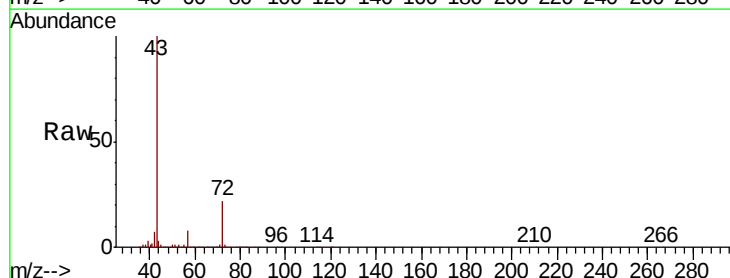
Acq: 10 Sep 2018 18:07

Tgt Ion: 43 Resp: 2133860

Ion Ratio Lower Upper

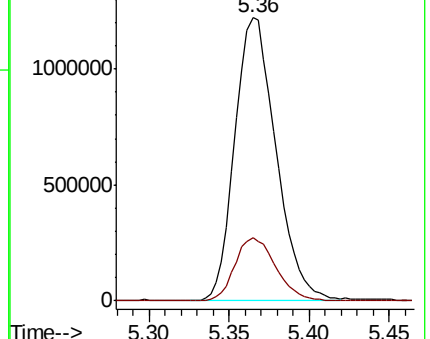
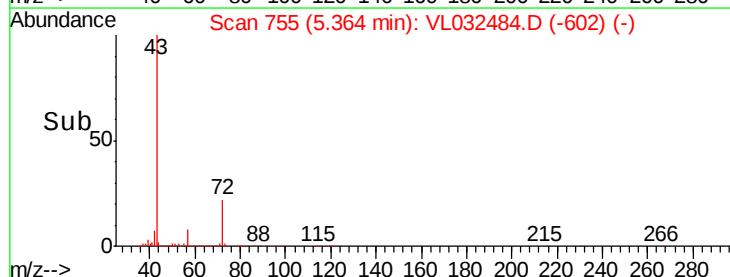
43 100

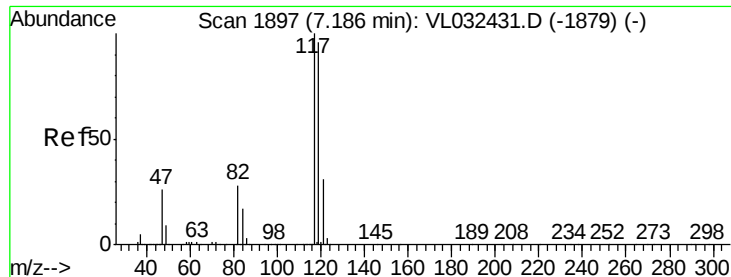
72 22.4 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.904 ppbv

RT: 7.18 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

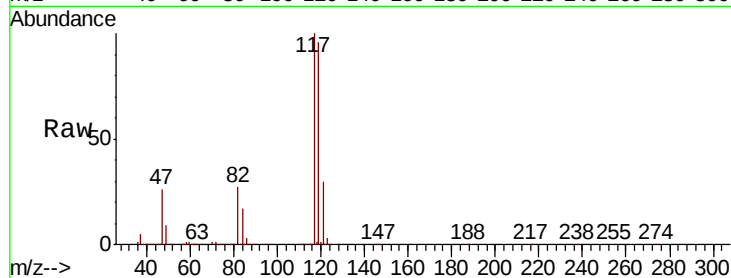
Tgt Ion:117 Resp: 2360676

Ion Ratio Lower Upper

117 100

119 96.5 76.6 115.0

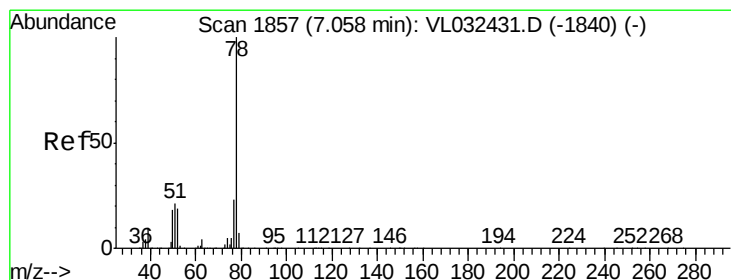
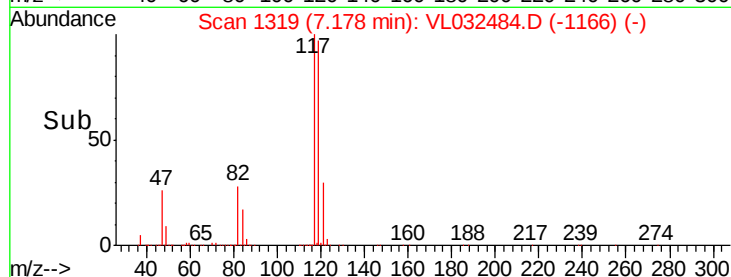
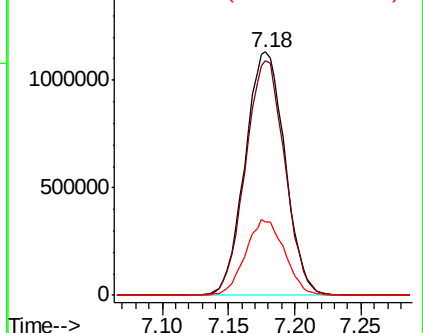
121 30.2 24.6 36.8



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: 9.496 ppbv

RT: 7.05 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

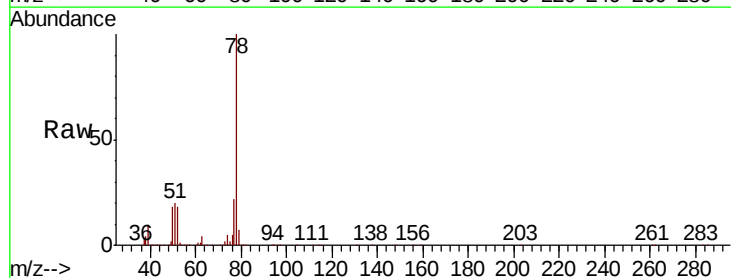
Tgt Ion: 78 Resp: 3187472

Ion Ratio Lower Upper

78 100

77 22.1 18.4 27.6

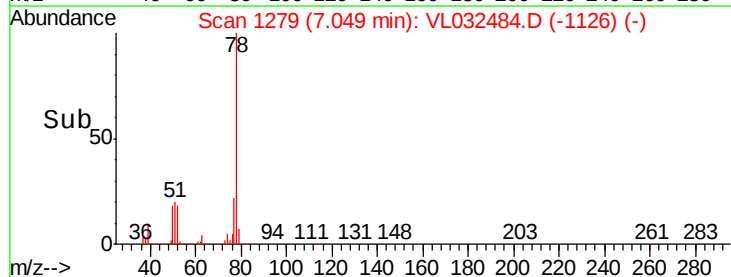
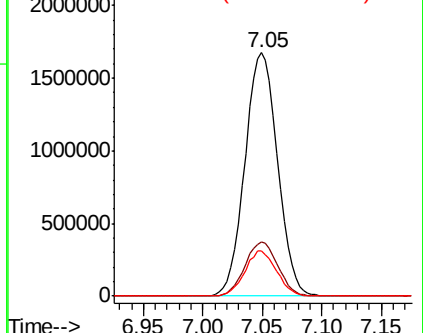
50 18.4 14.4 21.6

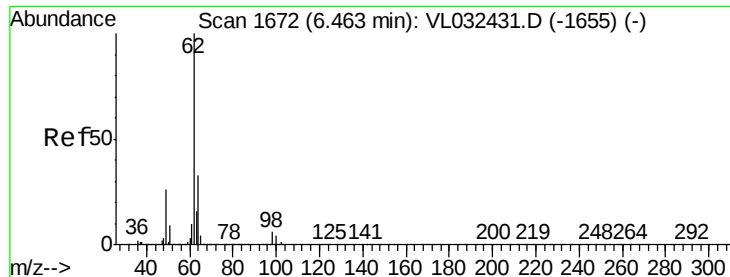


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

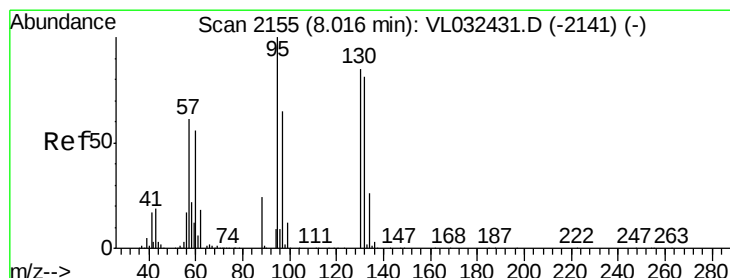
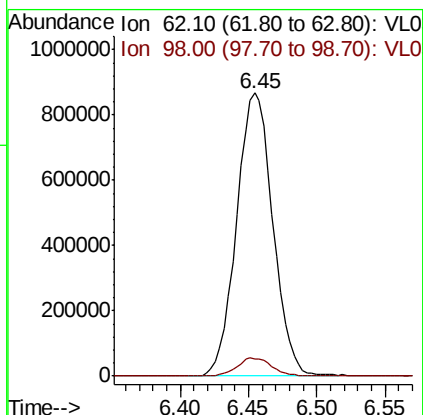
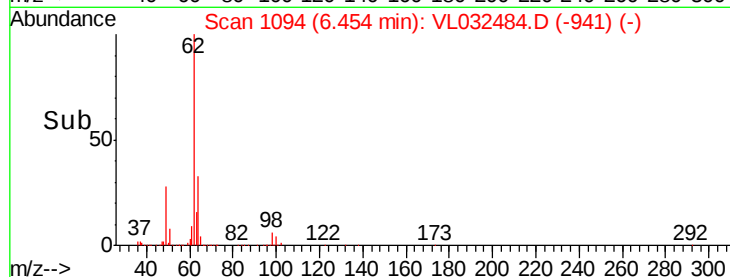
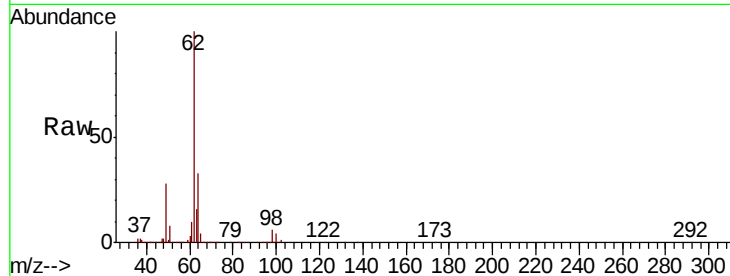




#37  
 1,2-Dichloroethane  
 Concen: 7.795 ppbv  
 RT: 6.45 min Scan# 1094  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

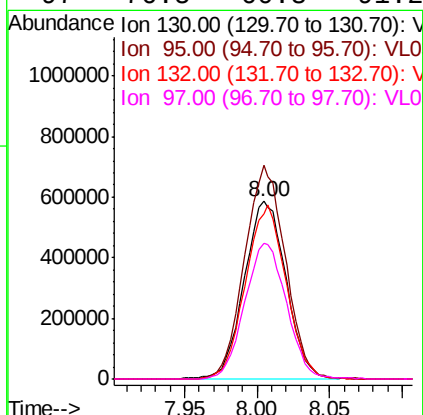
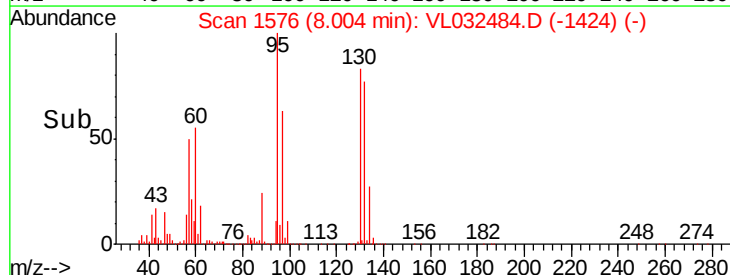
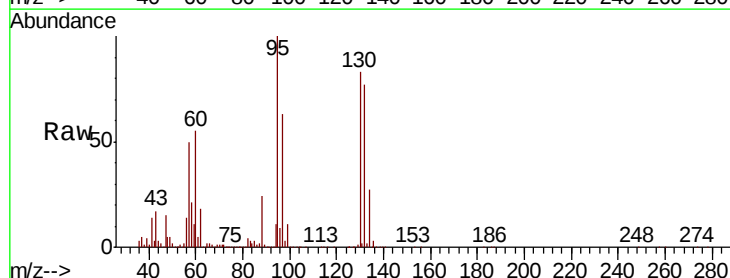
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

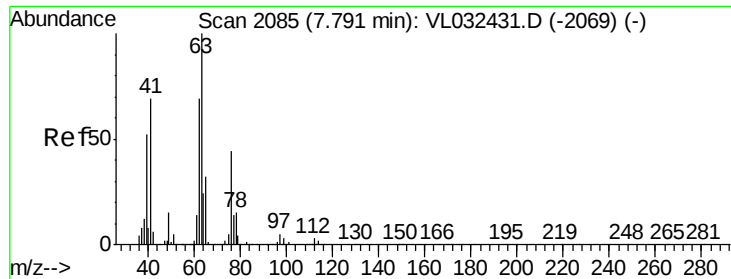
Tgt Ion: 62 Resp: 1603527  
 Ion Ratio Lower Upper  
 62 100  
 98 6.2 5.0 7.6



#38  
 Trichloroethene  
 Concen: 9.078 ppbv  
 RT: 8.00 min Scan# 1576  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 130 Resp: 1157608  
 Ion Ratio Lower Upper  
 130 100  
 95 120.7 94.2 141.4  
 132 93.5 76.2 114.4  
 97 76.5 60.8 91.2





#39

1,2-Dichloropropane

Concen: 9.641 ppbv

RT: 7.78 min Scan# 1506

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

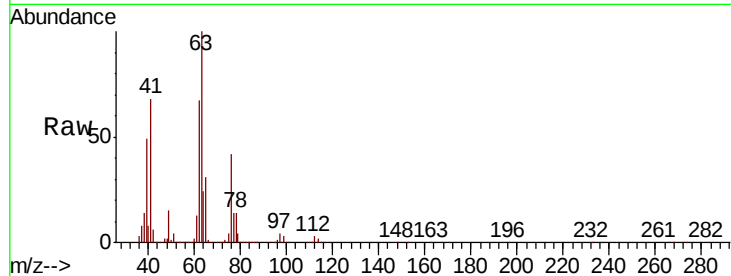
Tgt Ion: 63 Resp: 1384645

Ion Ratio Lower Upper

63 100

41 67.3 55.4 83.0

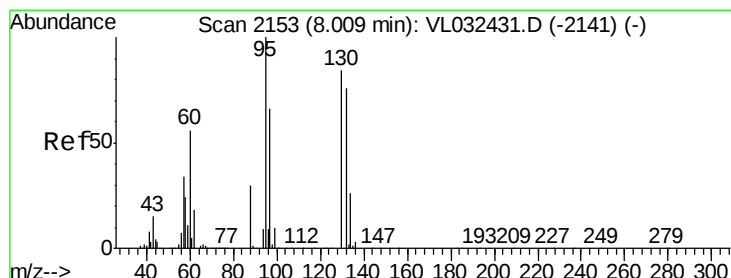
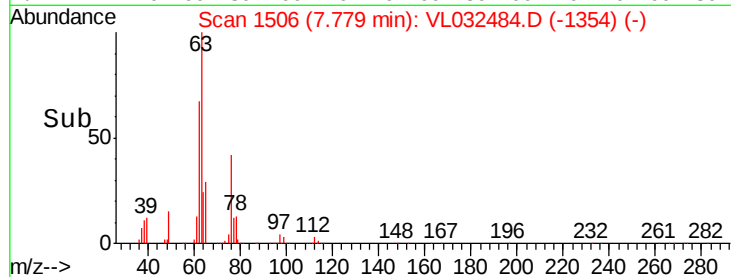
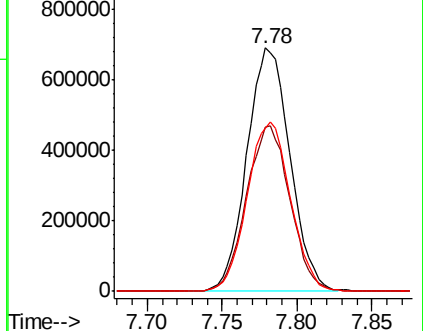
62 67.0 55.4 83.0



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: 10.410 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Tgt Ion: 88 Resp: 448543

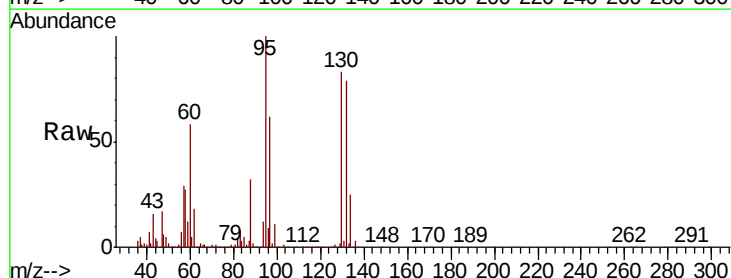
Ion Ratio Lower Upper

88 100

58 74.1 119.7 179.5#

43 0.0 253.0 379.4#

57 0.0 1156.9 1735.3#

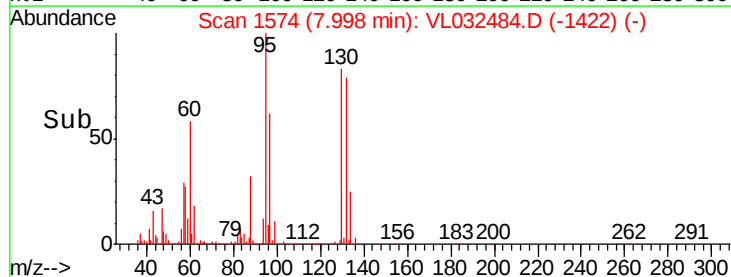
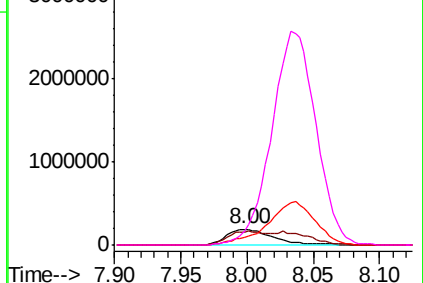


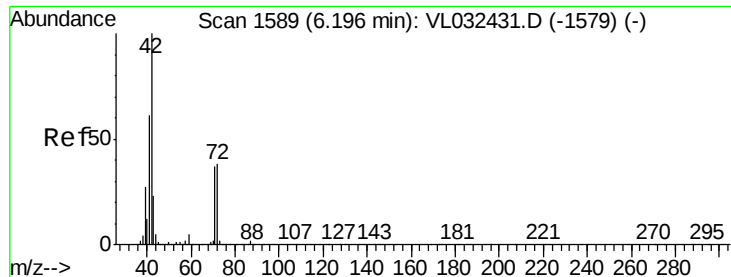
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

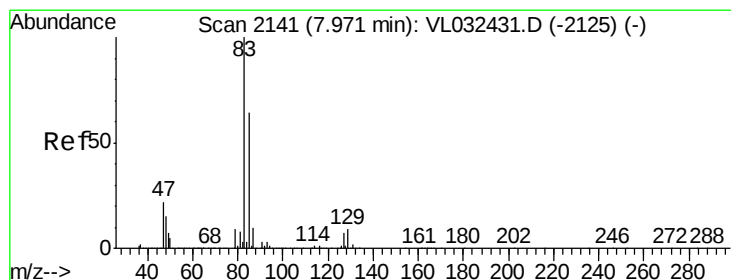
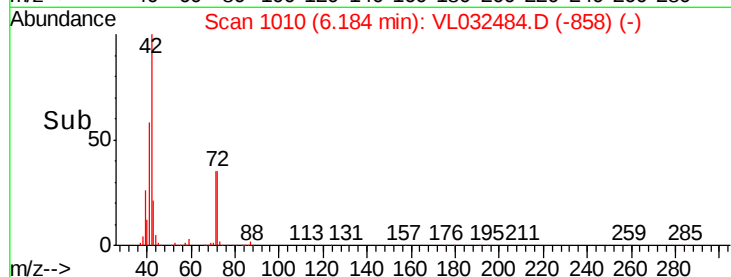
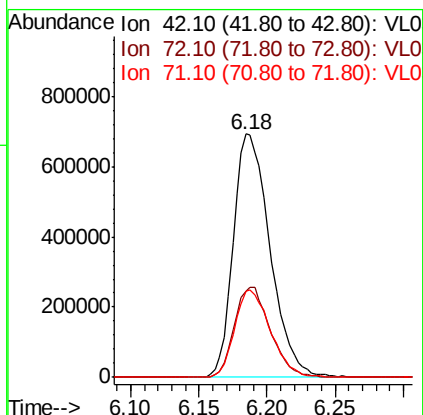
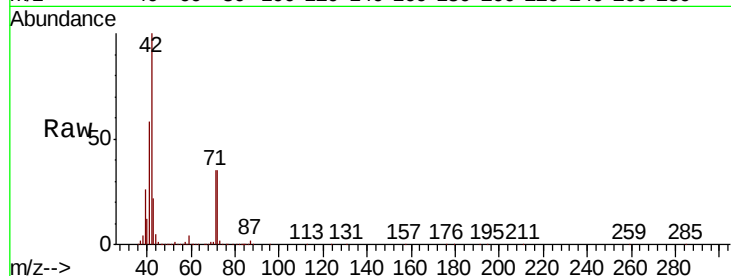




#41  
Tetrahydrofuran  
Concen: 9.083 ppbv  
RT: 6.18 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

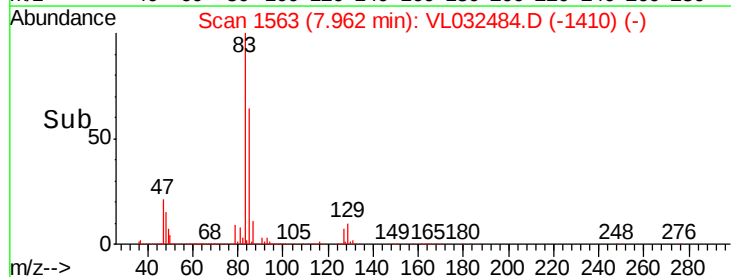
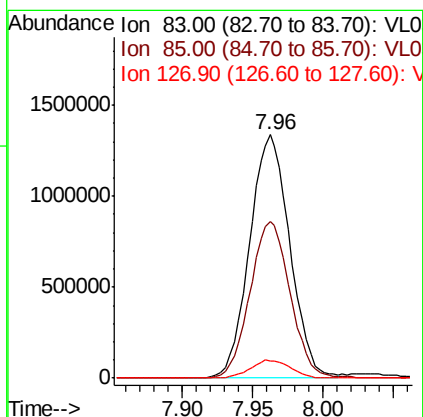
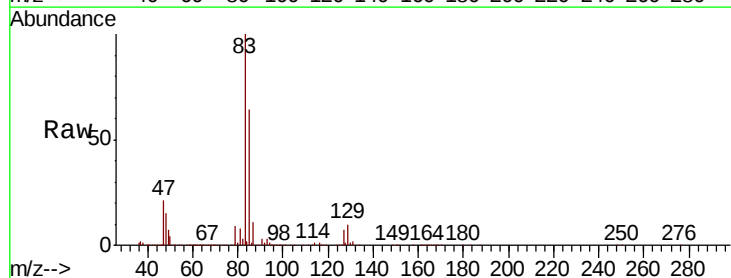
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

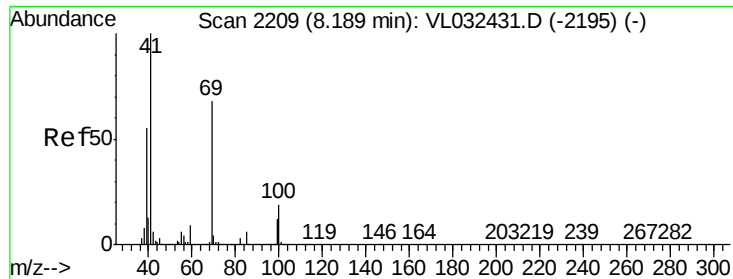
Tgt Ion: 42 Resp: 1295466  
Ion Ratio Lower Upper  
42 100  
72 36.5 29.5 44.3  
71 35.2 28.3 42.5



#42  
Bromodichloromethane  
Concen: 9.370 ppbv  
RT: 7.96 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 83 Resp: 2658420  
Ion Ratio Lower Upper  
83 100  
85 64.3 51.1 76.7  
127 7.1 5.8 8.8

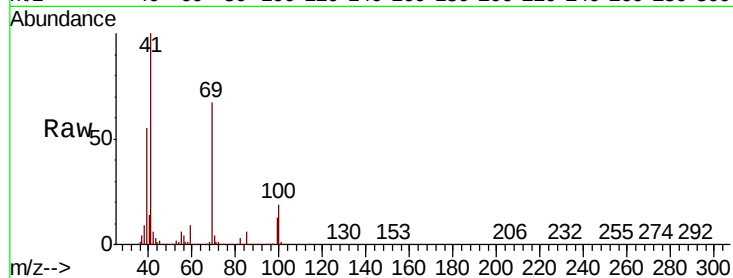




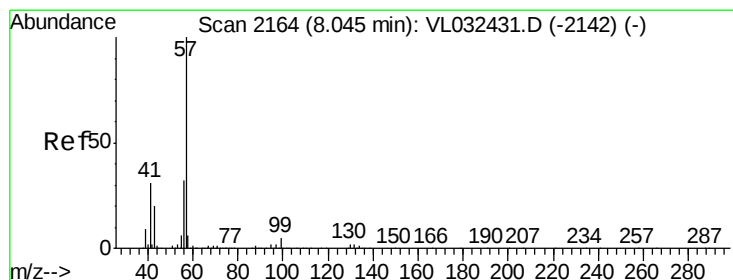
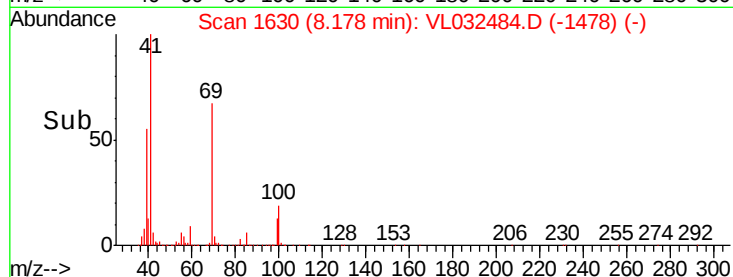
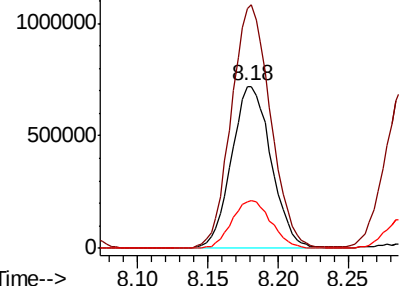
#43  
Methyl Methacrylate  
Concen: 9.957 ppbv  
RT: 8.18 min Scan# 1630  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

Tgt Ion: 69 Resp: 1418012  
Ion Ratio Lower Upper  
69 100  
41 148.5 117.1 175.7  
100 29.4 23.4 35.2

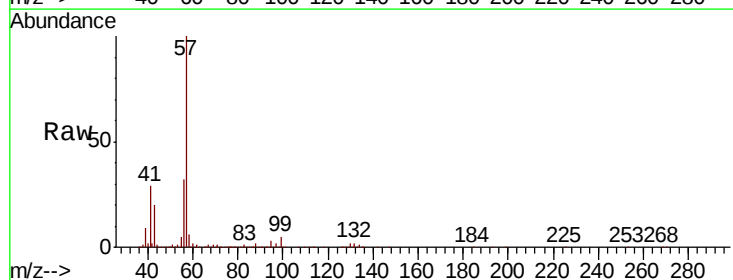


Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0

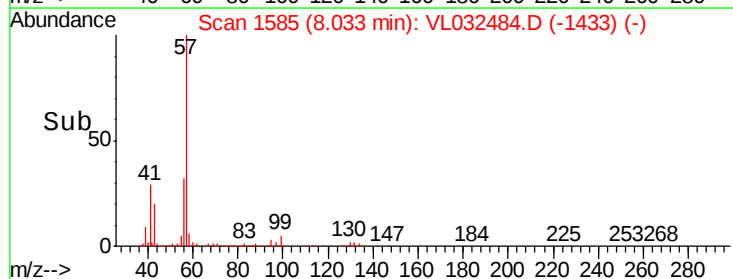
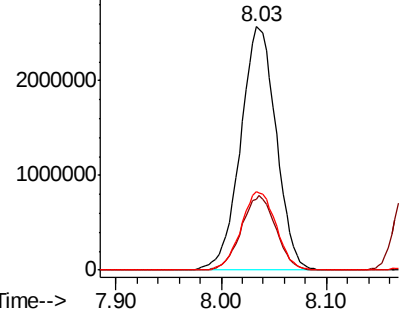


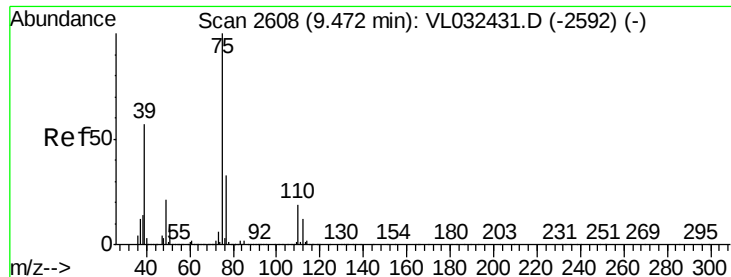
#44  
2,2,4-Trimethylpentane  
Concen: 9.295 ppbv  
RT: 8.03 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 57 Resp: 6032045  
Ion Ratio Lower Upper  
57 100  
41 29.9 24.4 36.6  
56 31.8 25.7 38.5



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 11.865 ppbv

RT: 9.46 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

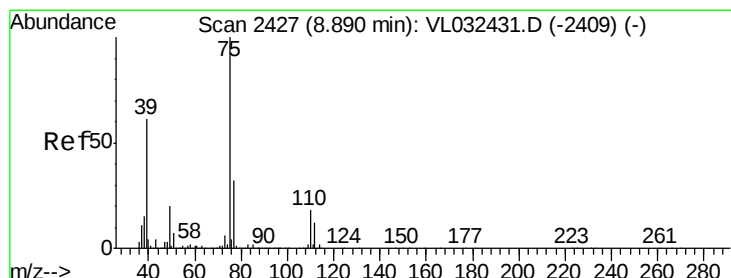
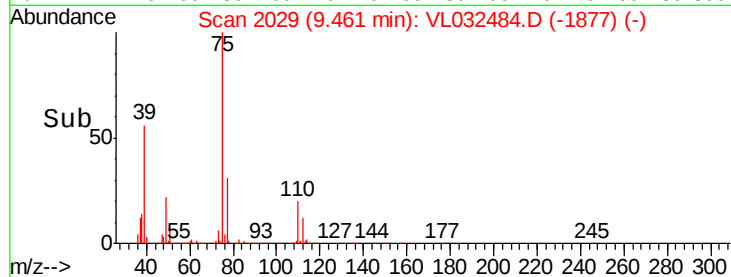
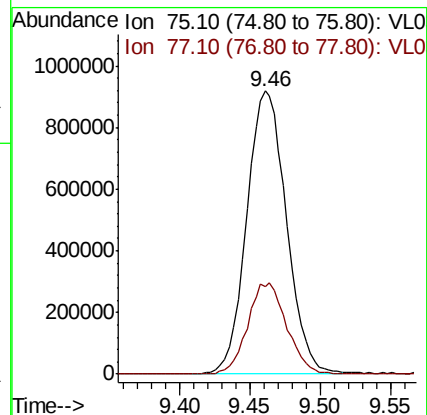
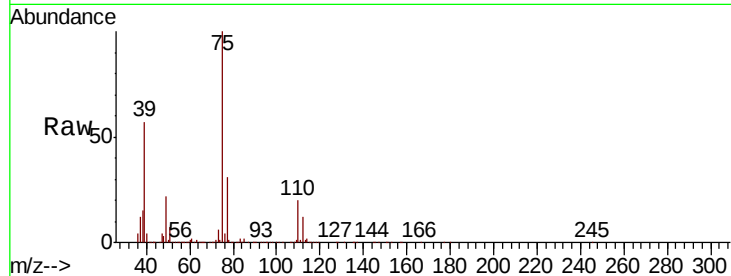
VL0910ABS01

Tgt Ion: 75 Resp: 1808087

Ion Ratio Lower Upper

75 100

77 31.0 26.2 39.2



#46

cis-1,3-Dichloropropene

Concen: 10.533 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

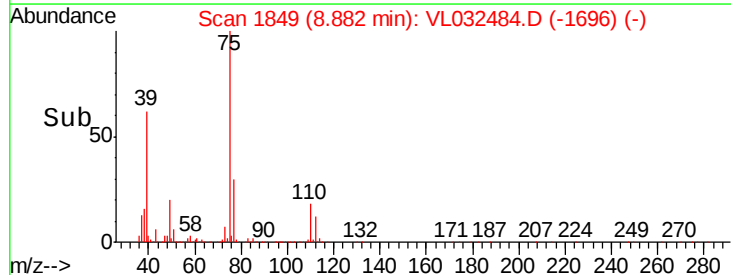
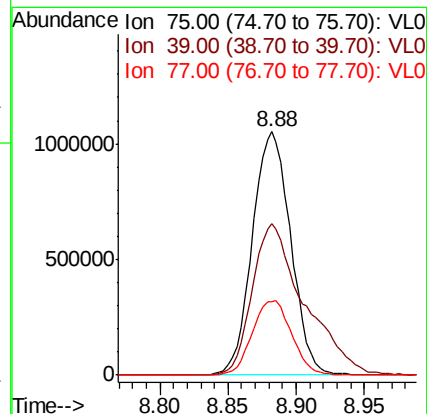
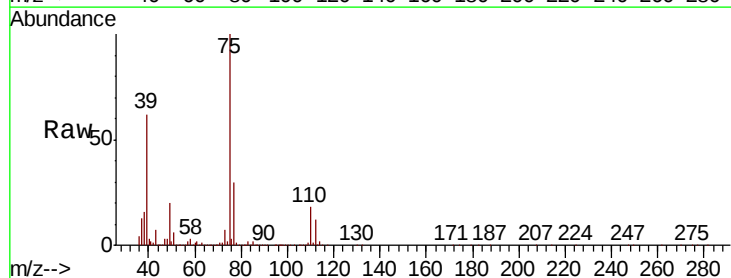
Tgt Ion: 75 Resp: 2050942

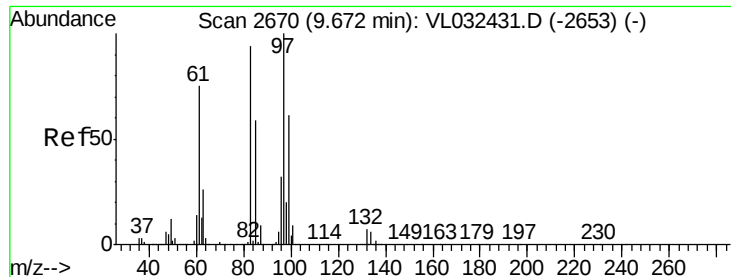
Ion Ratio Lower Upper

75 100

39 62.1 48.9 73.3

77 30.3 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.205 ppbv

RT: 9.66 min Scan# 2092

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

Tgt Ion: 97 Resp: 1405559

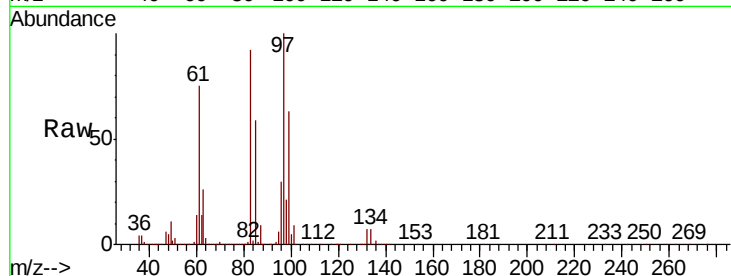
Ion Ratio Lower Upper

97 100

83 91.8 75.0 112.4

85 58.7 47.5 71.3

99 62.7 49.0 73.6

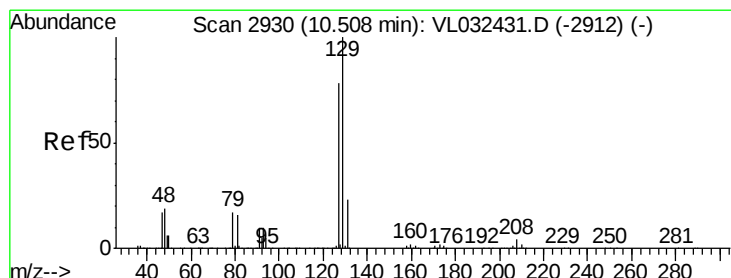
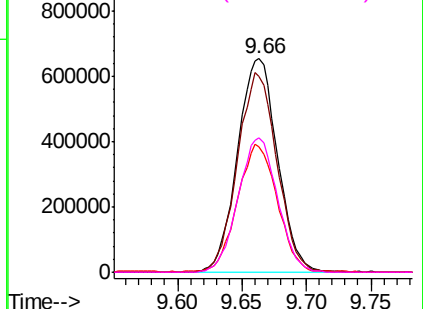
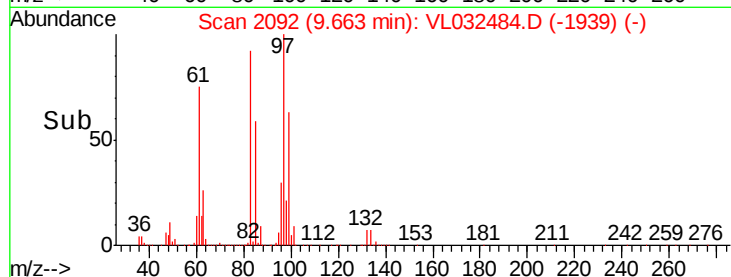


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.519 ppbv

RT: 10.50 min Scan# 2352

Delta R.T. -0.01 min

Lab File: VL032484.D

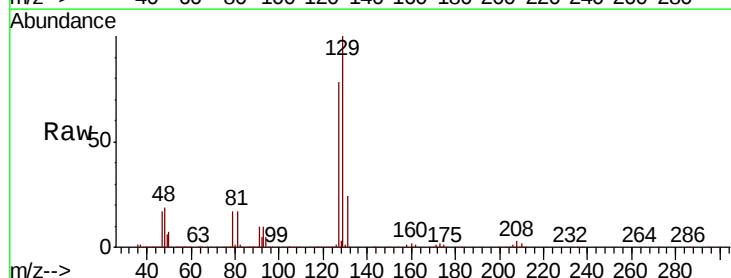
Acq: 10 Sep 2018 18:07

Tgt Ion: 129 Resp: 2224583

Ion Ratio Lower Upper

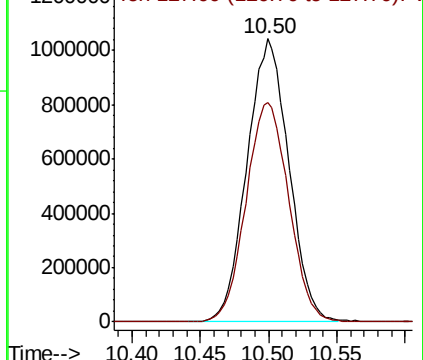
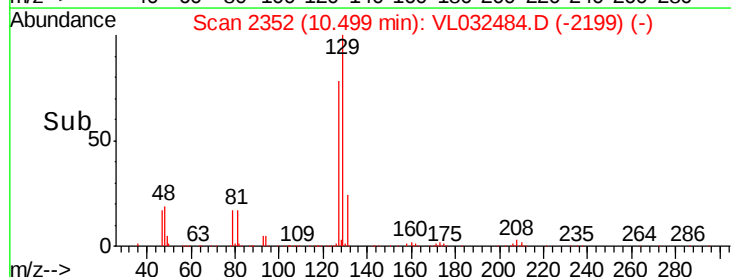
129 100

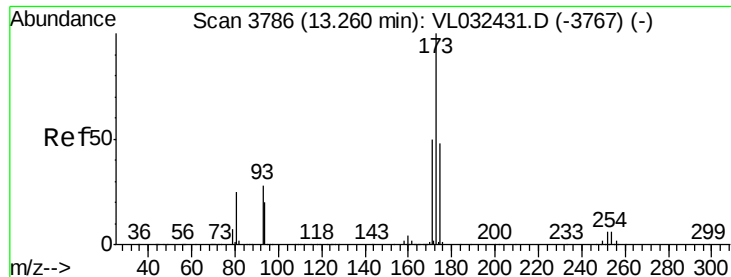
127 79.0 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.896 ppbv

RT: 13.25 min Scan# 3208

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

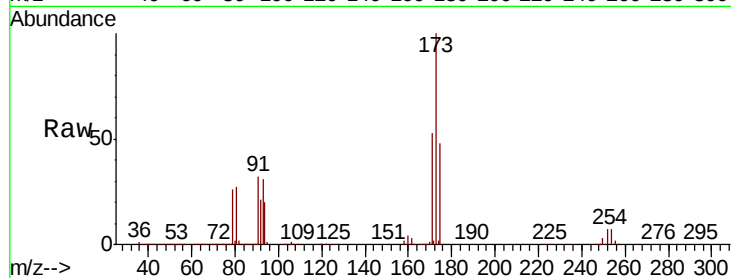
Tgt Ion:173 Resp: 1635260

Ion Ratio Lower Upper

173 100

175 48.8 38.9 58.3

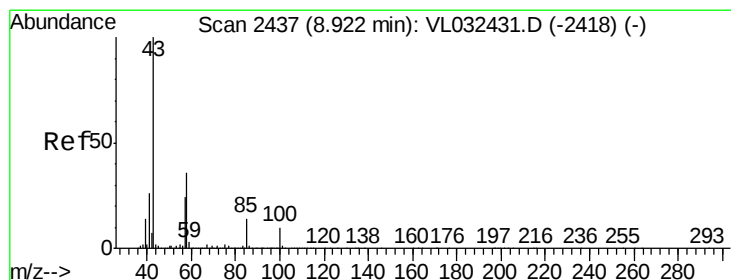
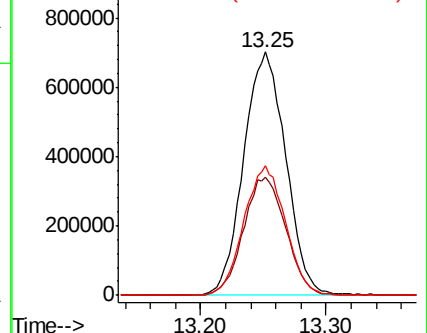
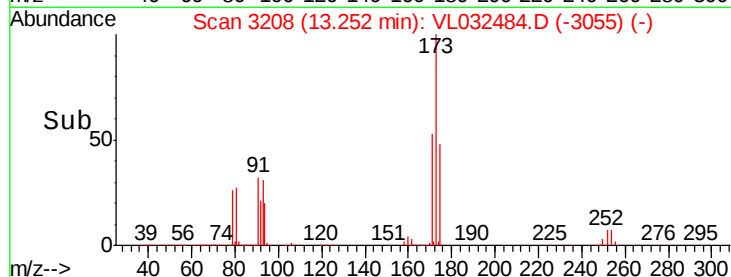
171 52.8 41.6 62.4



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: 8.979 ppbv

RT: 8.91 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VL032484.D

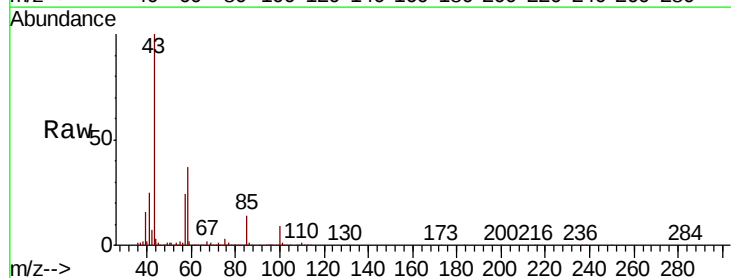
Acq: 10 Sep 2018 18:07

Tgt Ion: 43 Resp: 3543865

Ion Ratio Lower Upper

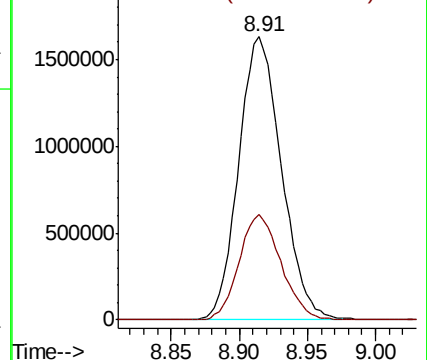
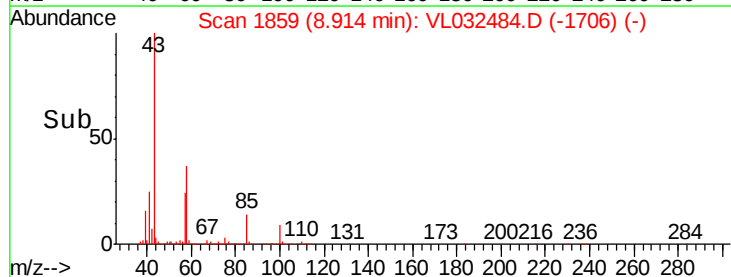
43 100

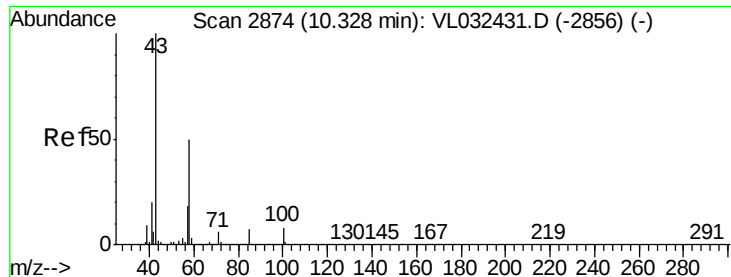
58 36.6 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

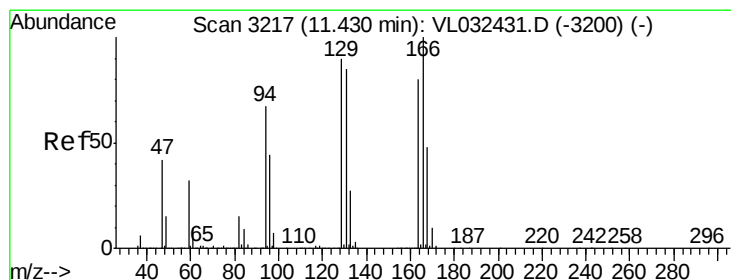
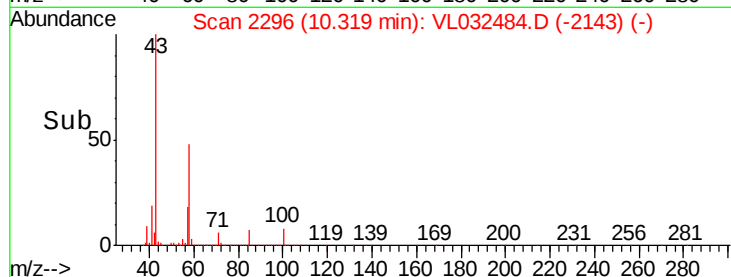
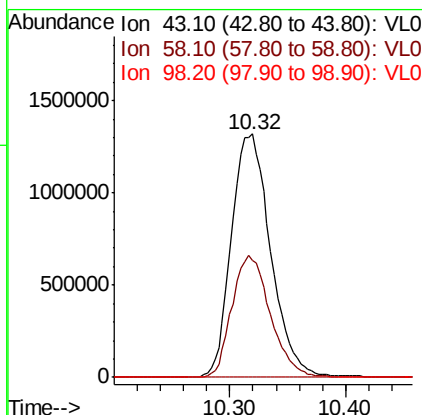
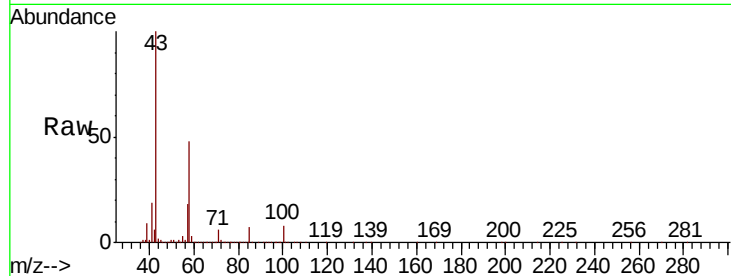




#51  
2-Hexanone  
Concen: 12.131 ppbv  
RT: 10.32 min Scan# 2296  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

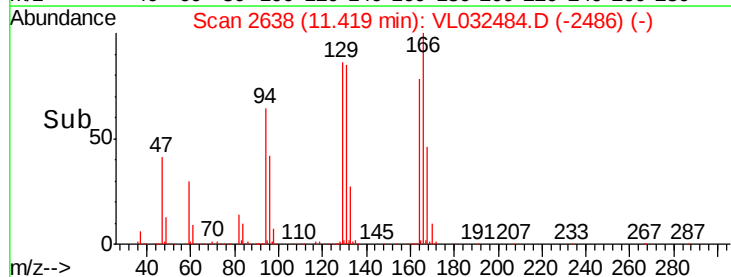
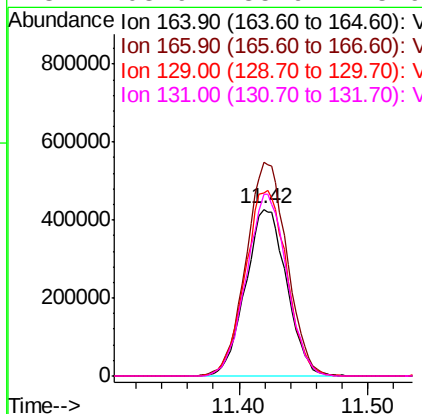
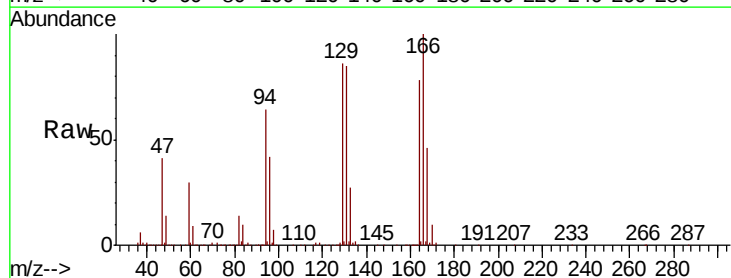
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

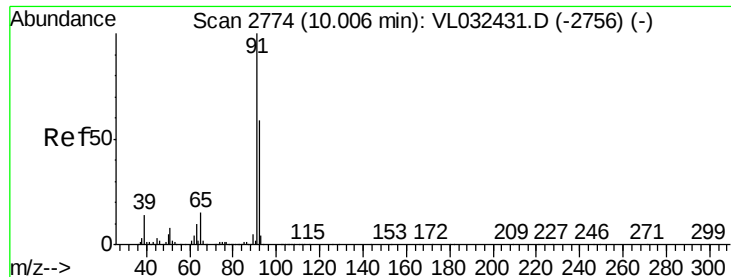
Tgt Ion: 43 Resp: 3083831  
Ion Ratio Lower Upper  
43 100  
58 49.3 39.2 58.8  
98 0.4 0.4 0.6#



#52  
Tetrachloroethene  
Concen: 9.092 ppbv  
RT: 11.42 min Scan# 2638  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 164 Resp: 946382  
Ion Ratio Lower Upper  
164 100  
166 128.4 100.6 150.8  
129 109.8 89.9 134.9  
131 108.9 85.9 128.9





#53

Toluene

Concen: 11.216 ppbv

RT: 9.99 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

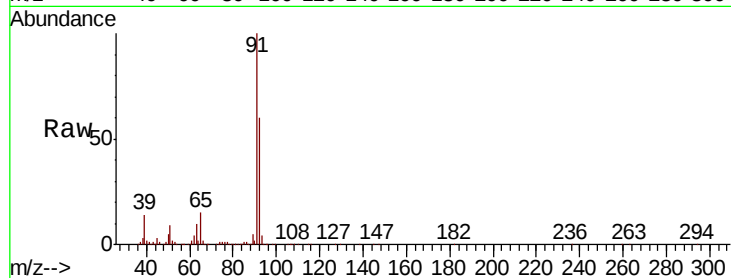
VL0910ABS01

Tgt Ion: 91 Resp: 3935418

Ion Ratio Lower Upper

91 100

92 60.7 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.99

2000000

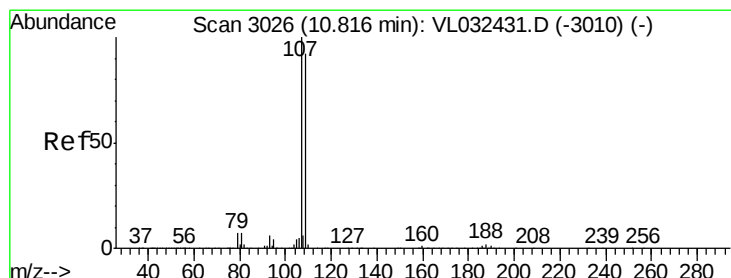
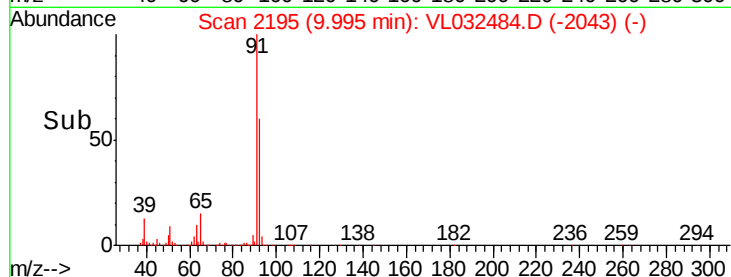
1500000

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 10.074 ppbv

RT: 10.81 min Scan# 2448

Delta R.T. -0.01 min

Lab File: VL032484.D

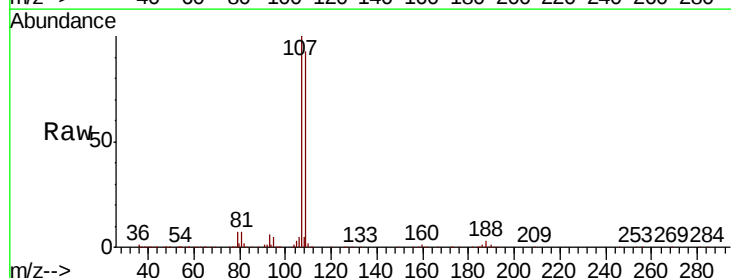
Acq: 10 Sep 2018 18:07

Tgt Ion: 107 Resp: 2065218

Ion Ratio Lower Upper

107 100

109 92.5 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.81

1000000

800000

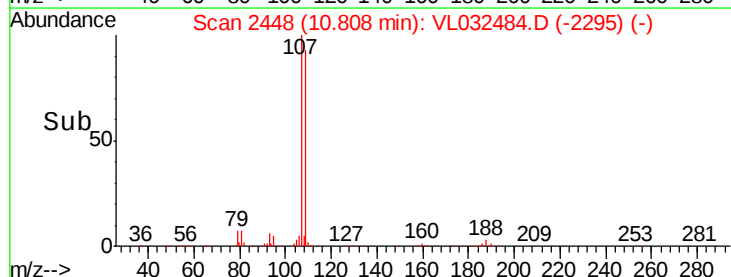
600000

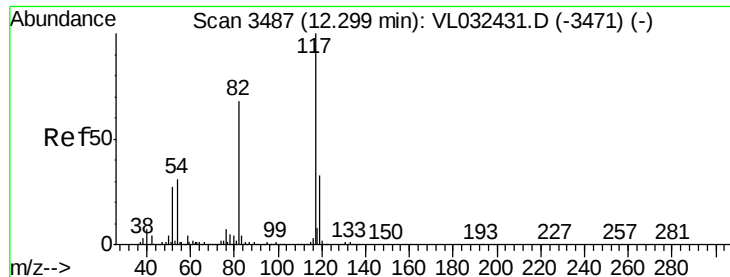
400000

200000

0

Time-->

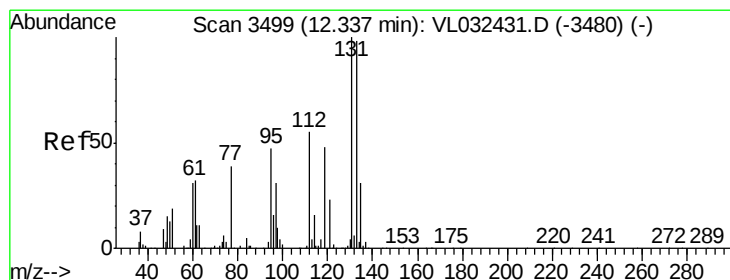
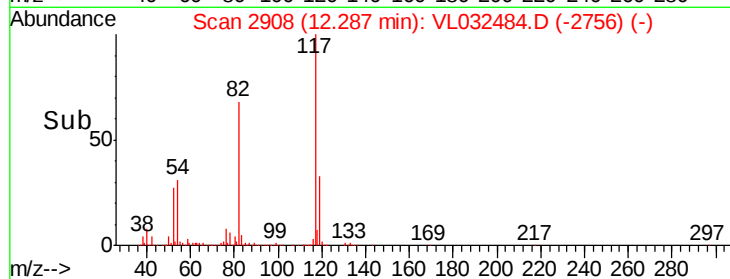
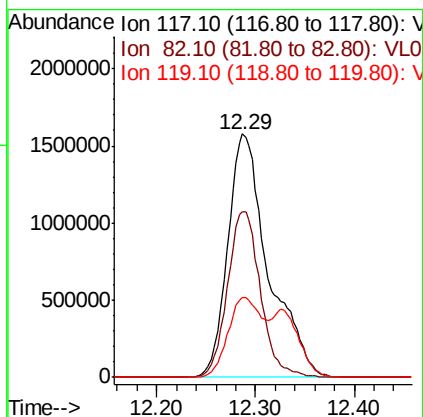
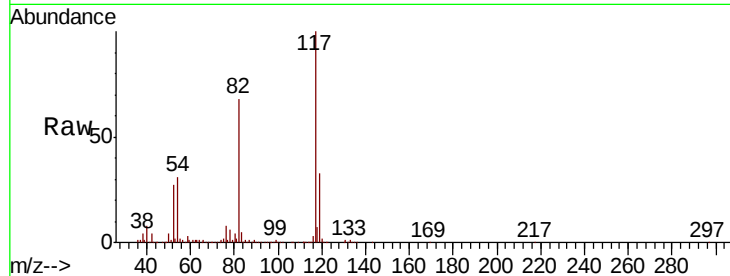




#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.29 min Scan# 2908  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

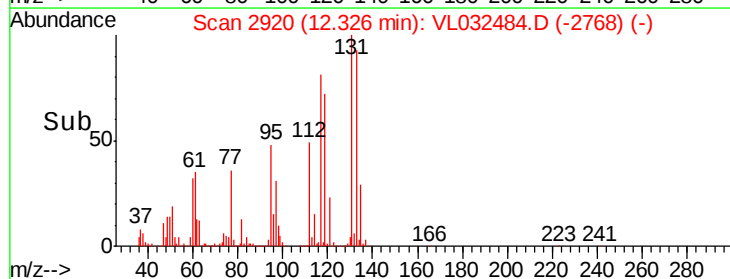
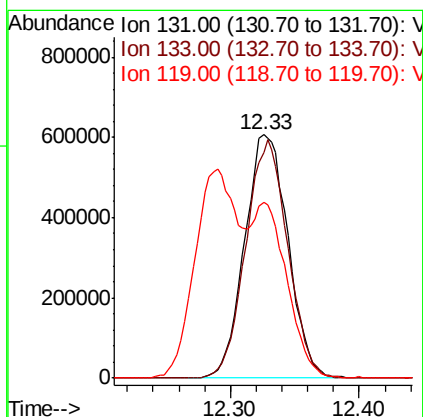
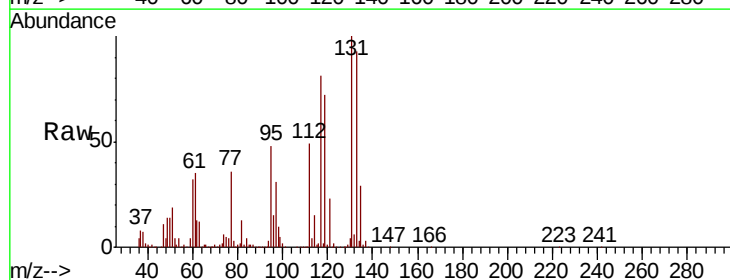
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

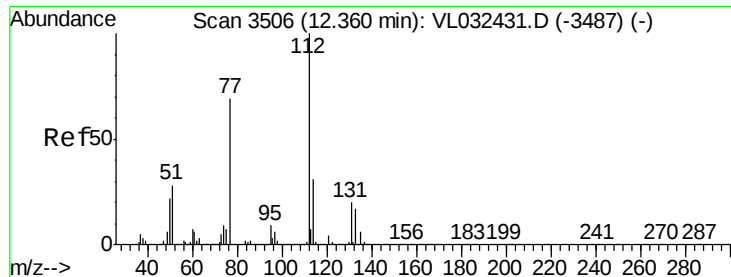
Tgt Ion:117 Resp: 4523400  
 Ion Ratio Lower Upper  
 117 100  
 82 55.5 53.0 79.6  
 119 46.5 45.9 68.9



#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 6.963 ppbv  
 RT: 12.33 min Scan# 2920  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion:131 Resp: 1420056  
 Ion Ratio Lower Upper  
 131 100  
 133 94.8 77.0 115.4  
 119 148.0 114.2 171.2





#57

Chlorobenzene

Concen: 7.224 ppbv

RT: 12.35 min Scan# 2928

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

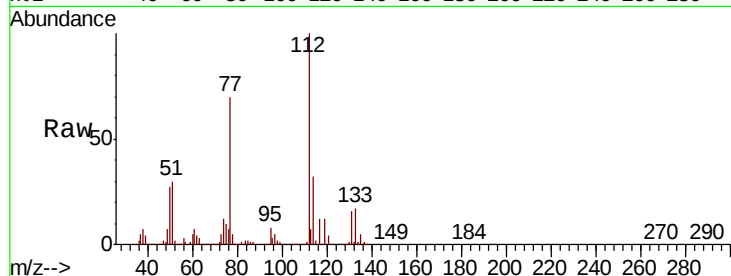
Tgt Ion: 112 Resp: 2611469

Ion Ratio Lower Upper

112 100

77 69.9 56.1 84.1

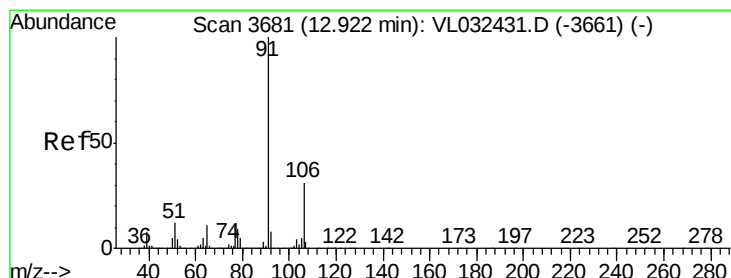
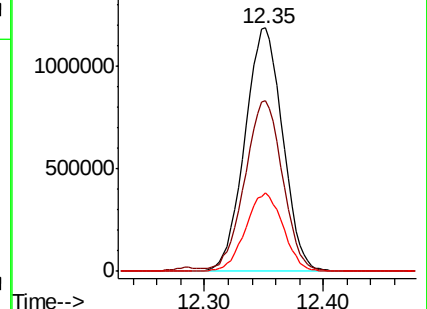
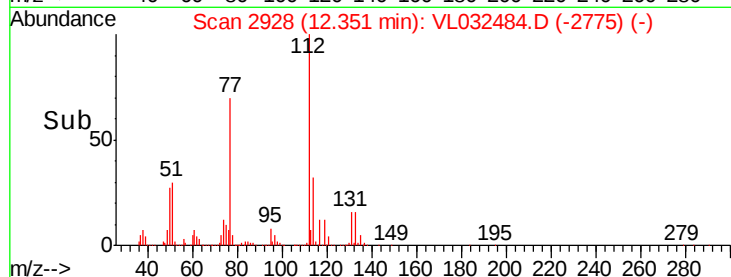
114 32.0 27.8 34.0



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: 8.720 ppbv

RT: 12.91 min Scan# 3102

Delta R.T. -0.01 min

Lab File: VL032484.D

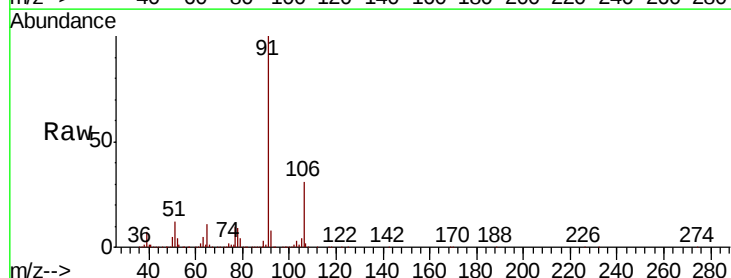
Acq: 10 Sep 2018 18:07

Tgt Ion: 91 Resp: 4720501

Ion Ratio Lower Upper

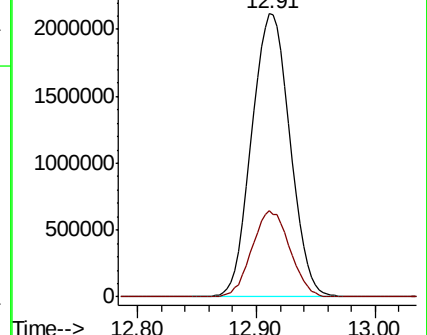
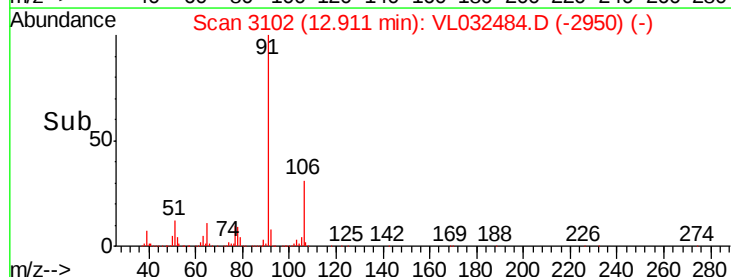
91 100

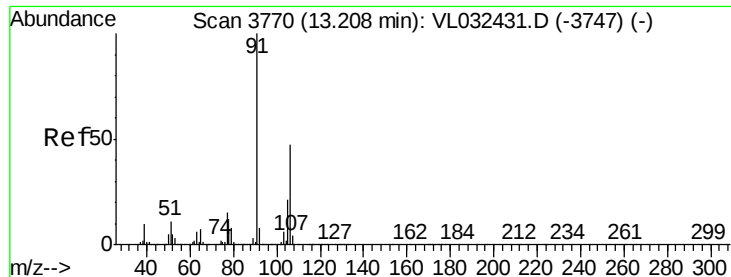
106 30.6 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

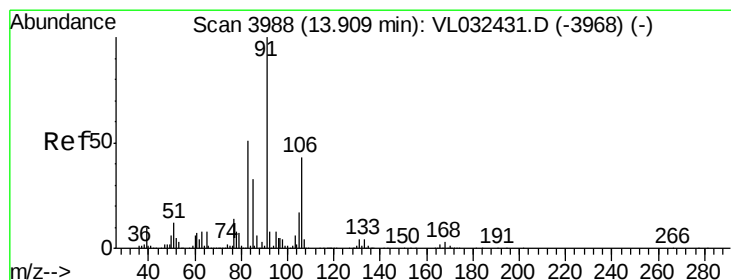
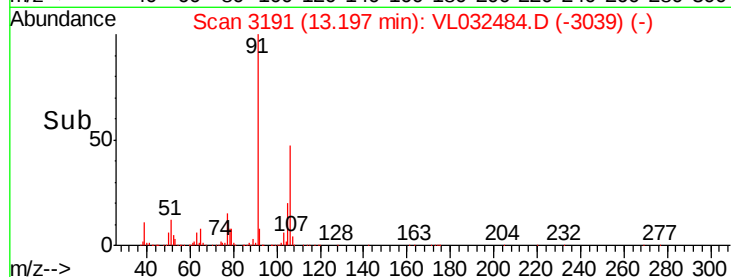
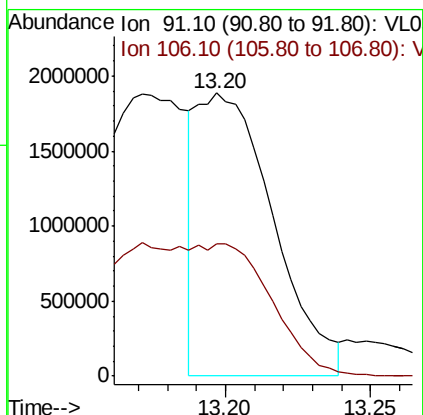
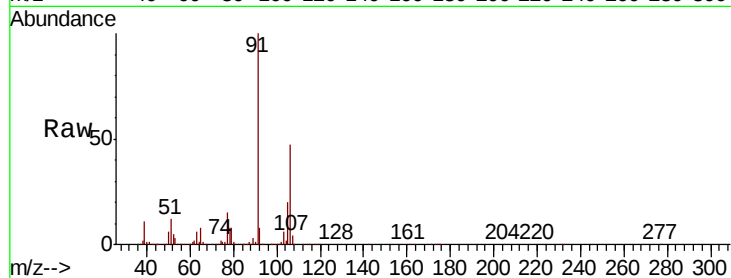




#59  
m/p-Xylene  
Concen: 7.104 ppbv  
RT: 13.20 min Scan# 3191  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

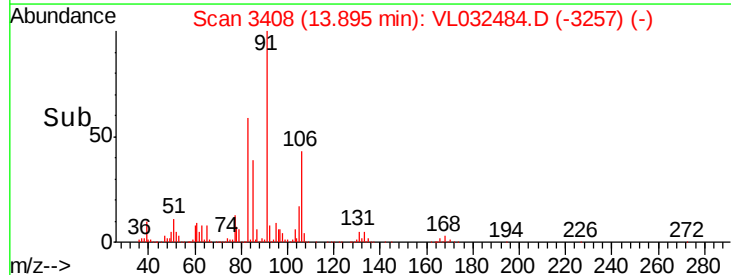
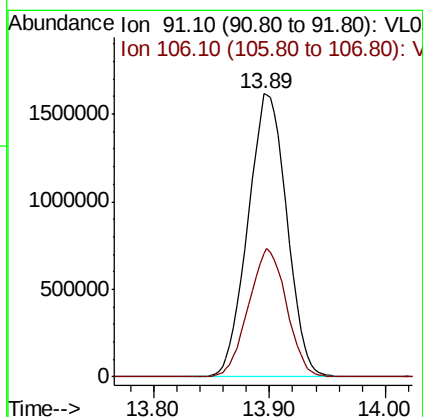
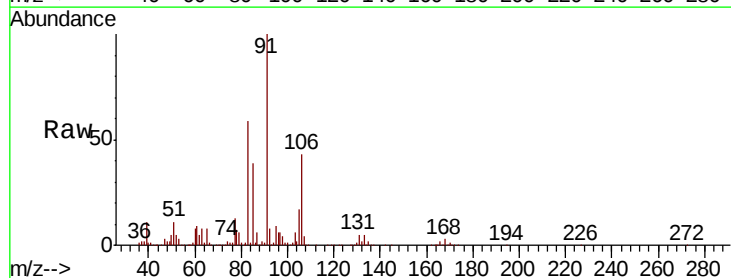
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

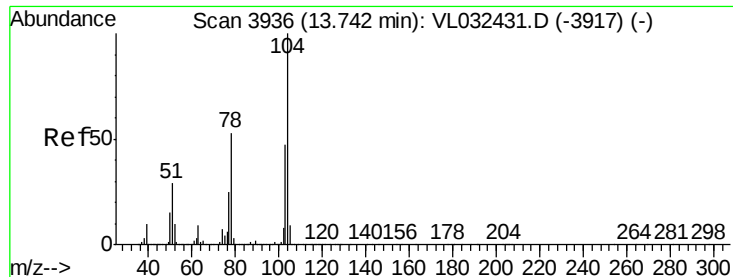
Tgt Ion: 91 Resp: 3428222  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.6 55.0#



#60  
o-Xylene  
Concen: 7.951 ppbv  
RT: 13.89 min Scan# 3408  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 91 Resp: 3769171  
Ion Ratio Lower Upper  
91 100  
106 44.3 21.9 65.7





#61

Styrene

Concen: 9.176 ppbv

RT: 13.73 min Scan# 3358

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

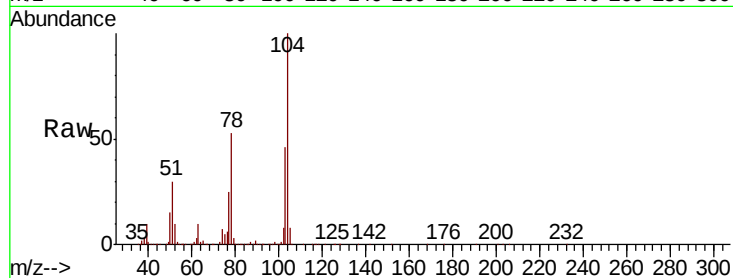
Tgt Ion:104 Resp: 2816016

Ion Ratio Lower Upper

104 100

78 52.8 41.8 62.8

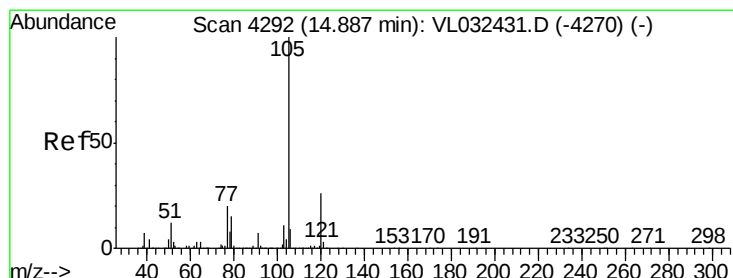
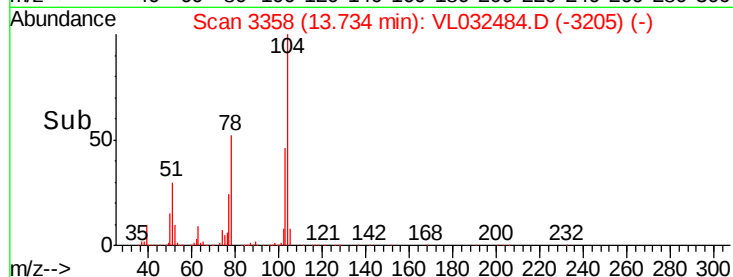
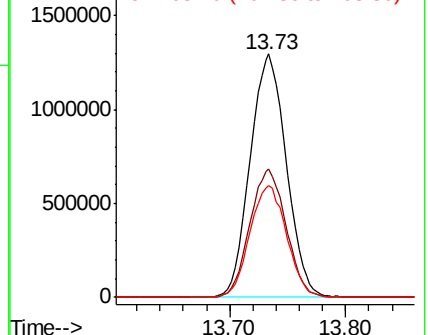
103 46.8 38.0 57.0



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: 7.985 ppbv

RT: 14.87 min Scan# 3712

Delta R.T. -0.01 min

Lab File: VL032484.D

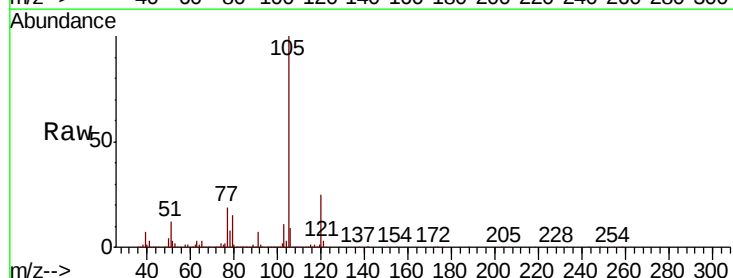
Acq: 10 Sep 2018 18:07

Tgt Ion:105 Resp: 5321558

Ion Ratio Lower Upper

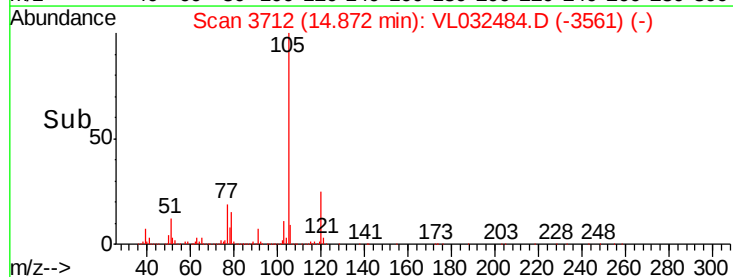
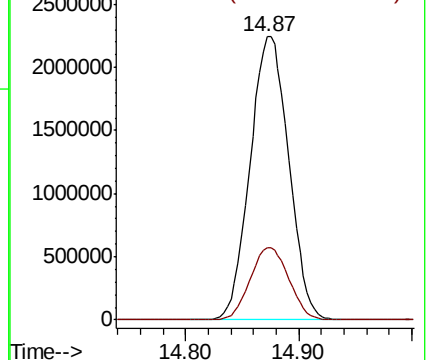
105 100

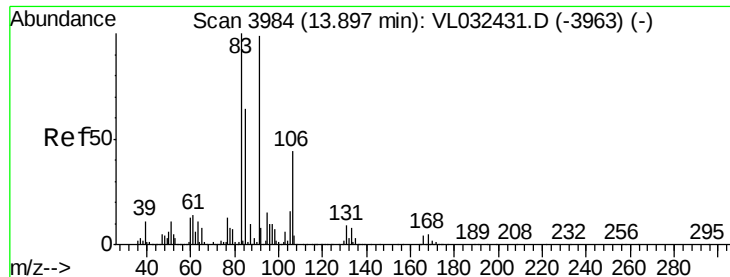
120 25.5 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

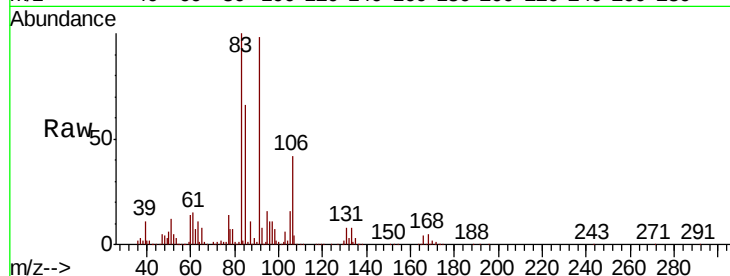




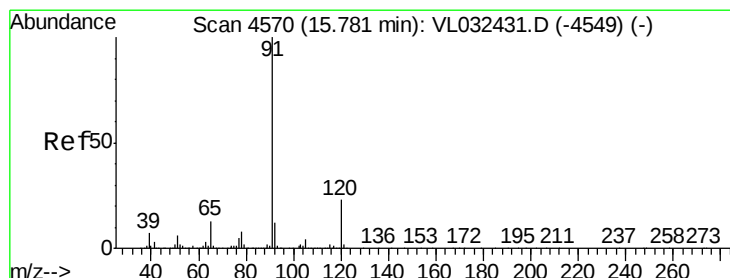
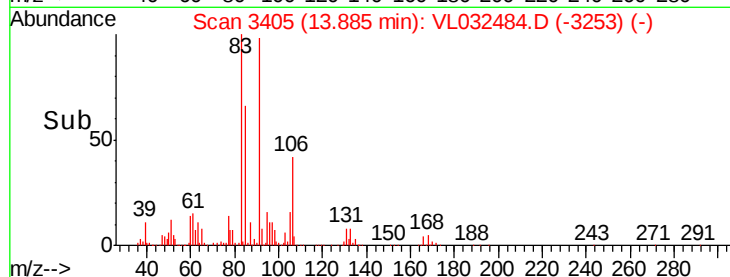
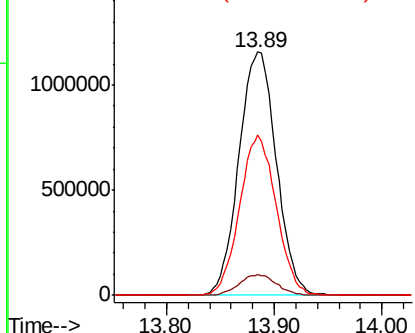
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 6.593 ppbv  
 RT: 13.89 min Scan# 3405  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

Tgt Ion: 83 Resp: 2794454  
 Ion Ratio Lower Upper  
 83 100  
 131 8.4 4.3 12.8  
 85 64.6 32.3 96.8

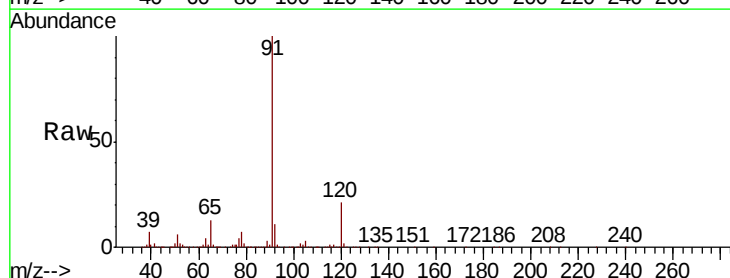


Abundance Ion 83.00 (82.70 to 83.70): VL0  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 85.00 (84.70 to 85.70): VL0

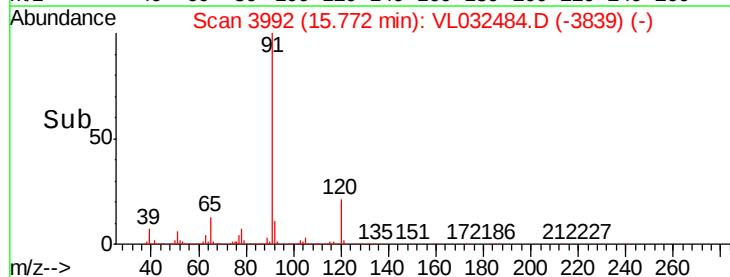
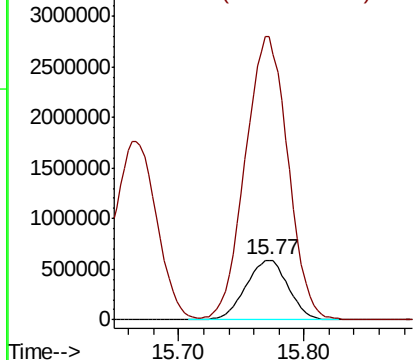


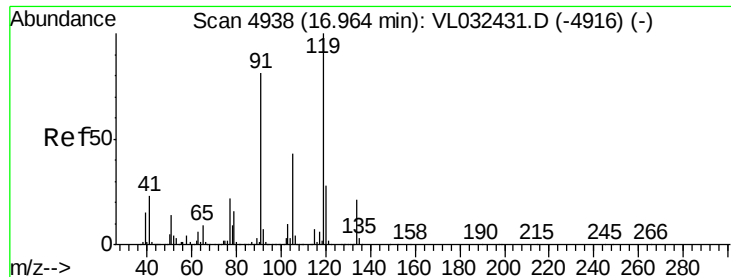
#64  
 n-propylbenzene  
 Concen: 7.923 ppbv  
 RT: 15.77 min Scan# 3992  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion: 120 Resp: 1380381  
 Ion Ratio Lower Upper  
 120 100  
 91 481.3 381.8 572.6



Abundance Ion 120.20 (119.90 to 120.90): V  
 Ion 91.10 (90.80 to 91.80): VL0

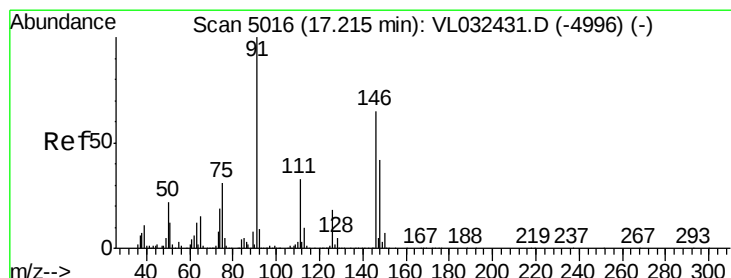
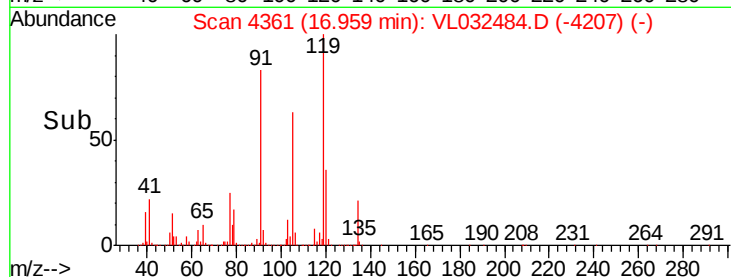
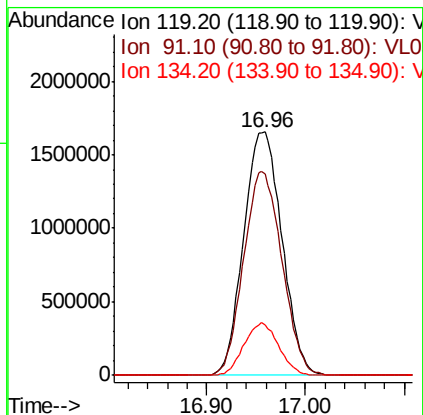
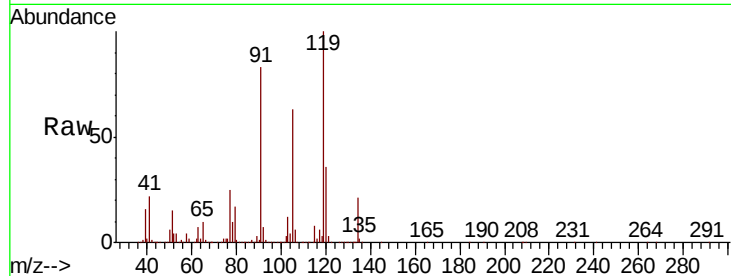




#65  
tert-Butylbenzene  
Concen: 7.747 ppbv  
RT: 16.96 min Scan# 4361  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

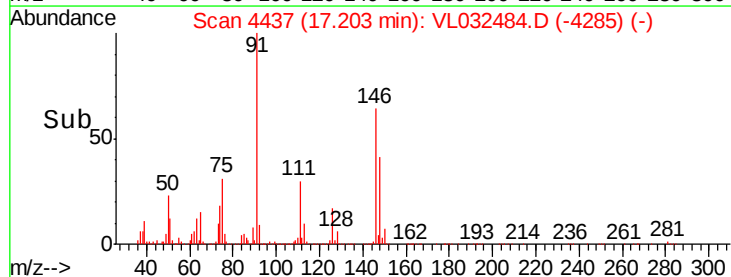
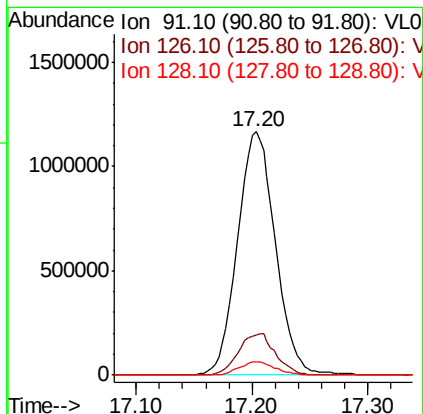
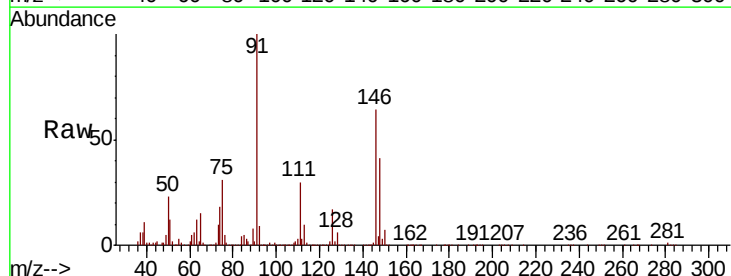
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

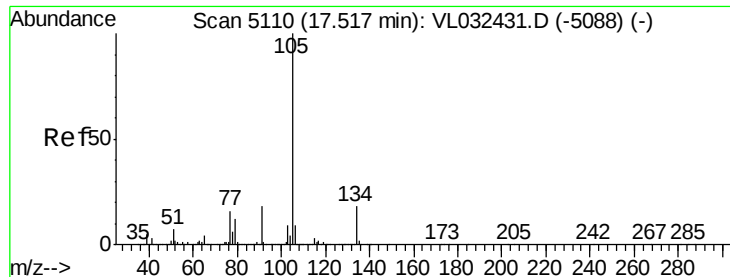
Tgt Ion: 119 Resp: 4448973  
Ion Ratio Lower Upper  
119 100  
91 83.9 66.5 99.7  
134 19.7 16.0 24.0



#66  
Benzyl Chloride  
Concen: 8.224 ppbv  
RT: 17.20 min Scan# 4437  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 91 Resp: 2630844  
Ion Ratio Lower Upper  
91 100  
126 16.9 13.8 20.8  
128 5.3 4.4 6.6





#67

sec-Butylbenzene

Concen: 7.640 ppbv

RT: 17.50 min Scan# 4530

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

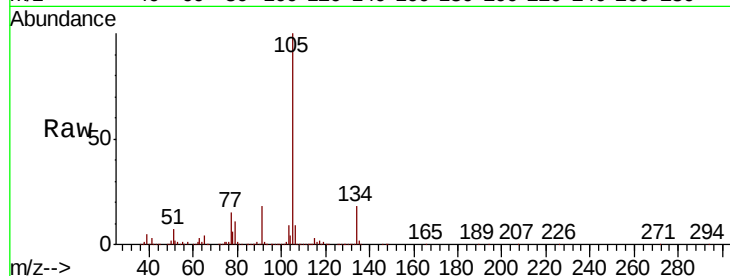
VL0910ABS01

Tgt Ion: 105 Resp: 6598118

Ion Ratio Lower Upper

105 100

134 17.6 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.50

2500000

2000000

1500000

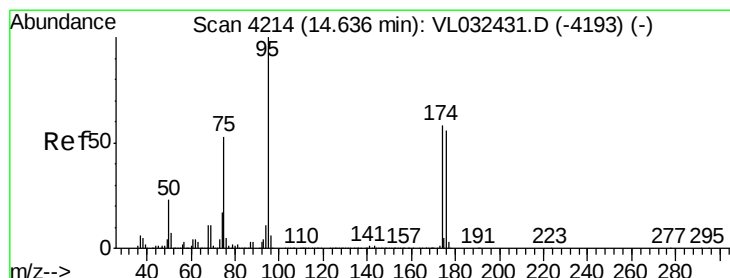
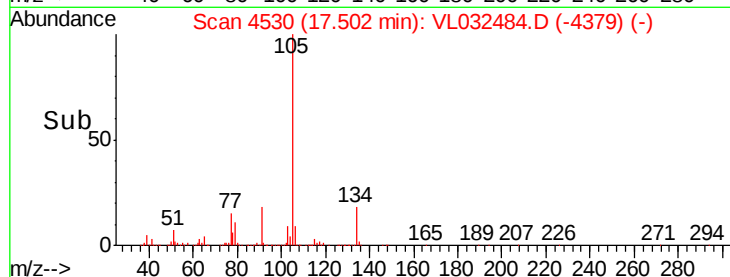
1000000

500000

0

Time-->

17.40 17.50 17.60



#68

1-Bromo-4-Fluorobenzene

Concen: 8.515 ppbv

RT: 14.62 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

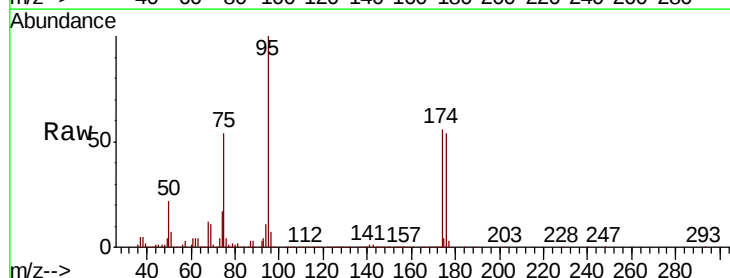
Tgt Ion: 95 Resp: 2859555

Ion Ratio Lower Upper

95 100

174 57.0 46.3 69.5

175 4.2 3.4 5.0



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

14.62

1500000

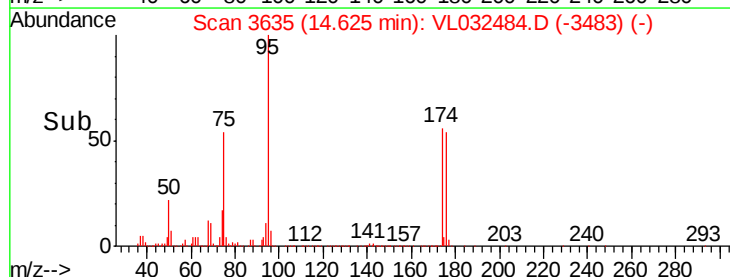
1000000

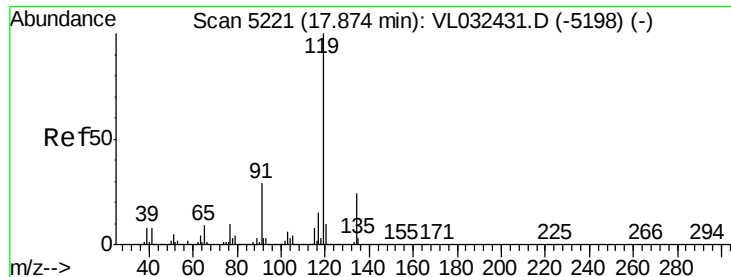
500000

0

Time-->

14.50 14.60 14.70

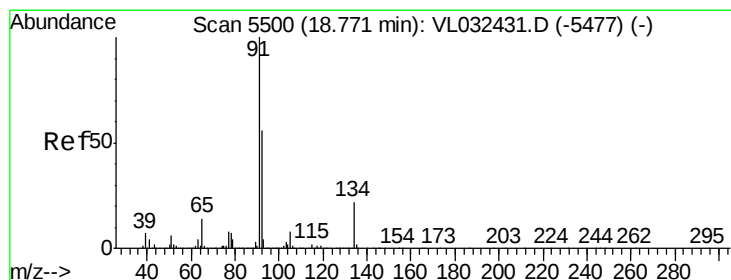
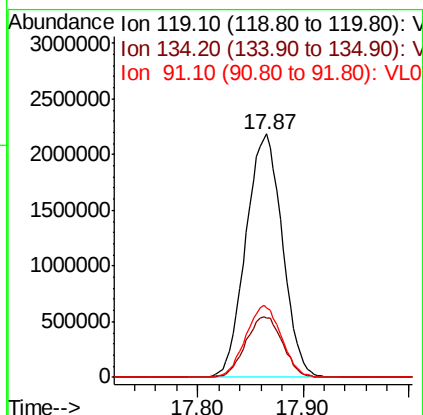
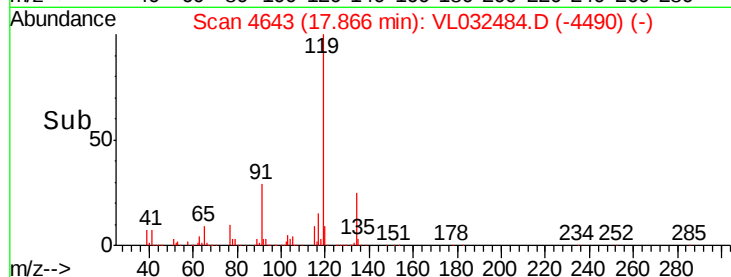
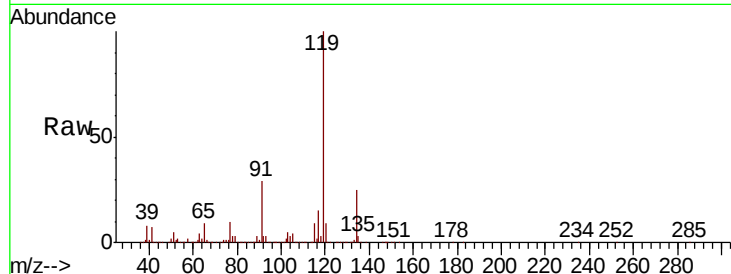




#69  
p-Isopropyltoluene  
Concen: 7.860 ppbv  
RT: 17.87 min Scan# 4643  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

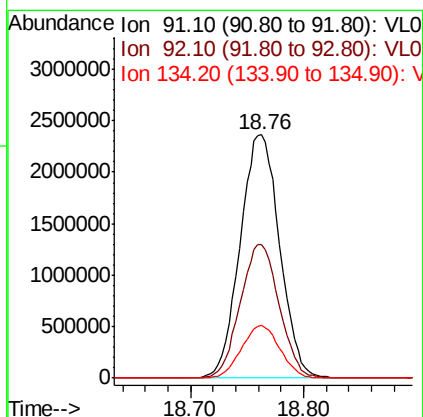
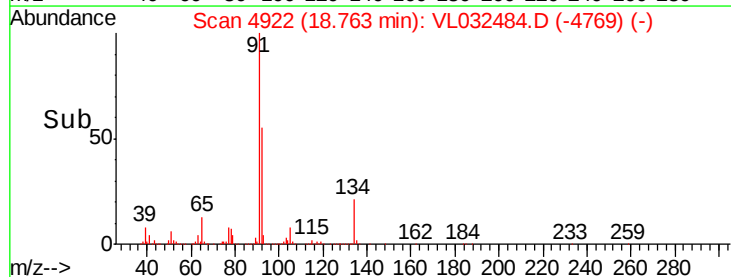
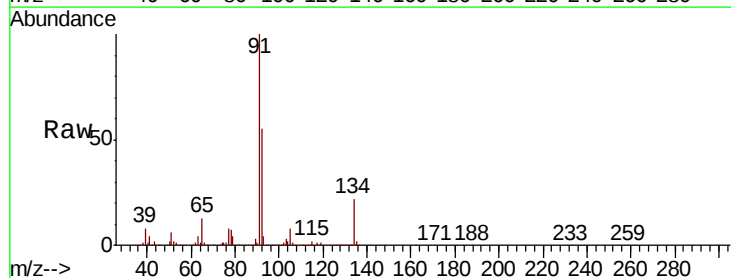
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

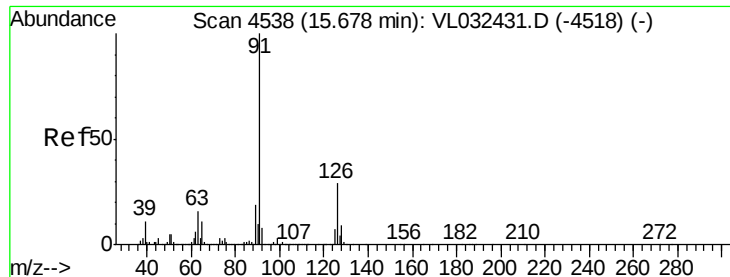
Tgt Ion: 119 Resp: 5260428  
Ion Ratio Lower Upper  
119 100  
134 25.2 20.4 30.6  
91 29.2 23.4 35.2



#70  
n-Butylbenzene  
Concen: 7.553 ppbv  
RT: 18.76 min Scan# 4922  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion: 91 Resp: 5730482  
Ion Ratio Lower Upper  
91 100  
92 54.3 43.8 65.8  
134 21.1 17.4 26.0





#71

2-Chlorotoluene

Concen: 8.155 ppbv

RT: 15.66 min Scan# 3958

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

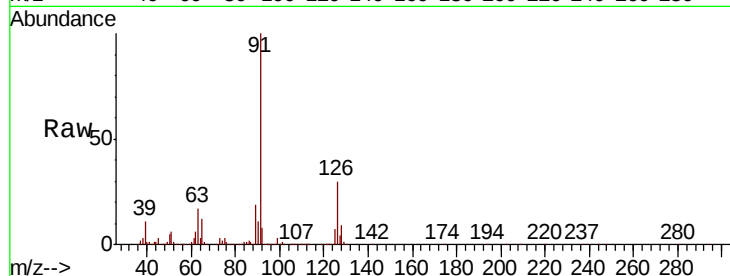
VL0910ABS01

Tgt Ion: 91 Resp: 4151729

Ion Ratio Lower Upper

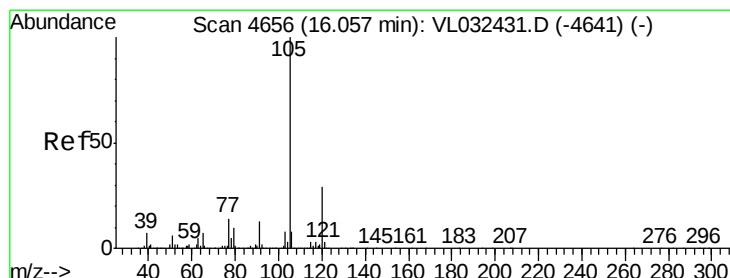
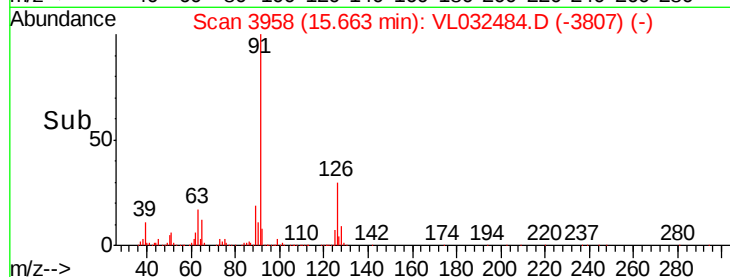
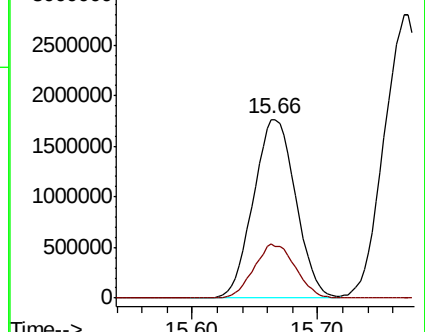
91 100

126 29.5 11.9 47.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.330 ppbv

RT: 16.05 min Scan# 4078

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Tgt Ion: 105 Resp: 4311404

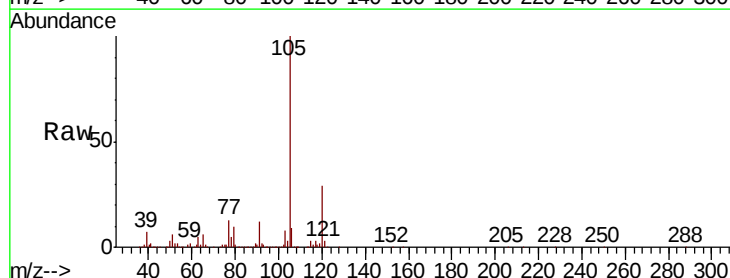
Ion Ratio Lower Upper

105 100

120 28.9 23.5 35.3

91 12.4 10.2 15.2

77 14.2 11.1 16.7

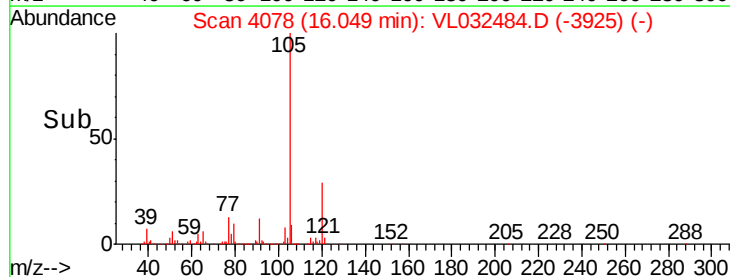
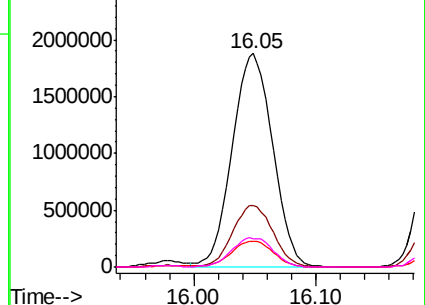


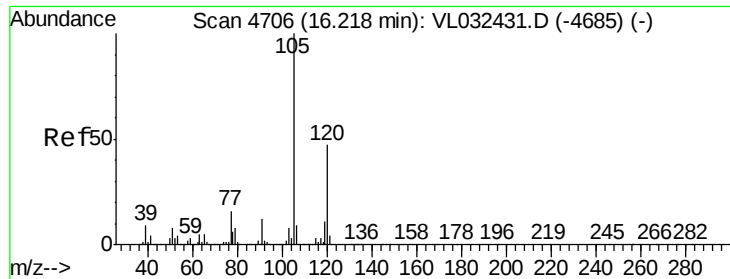
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

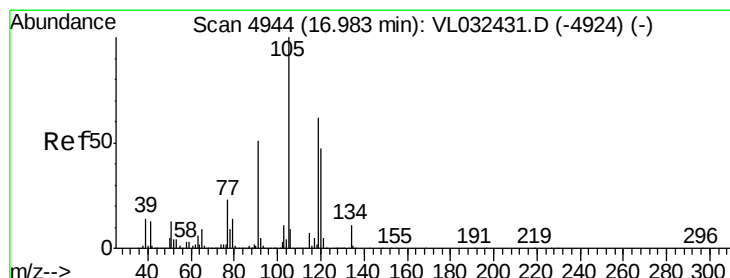
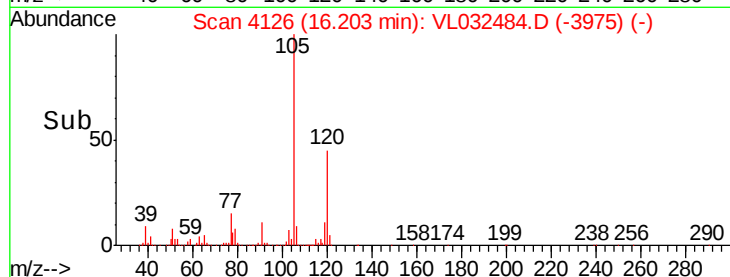
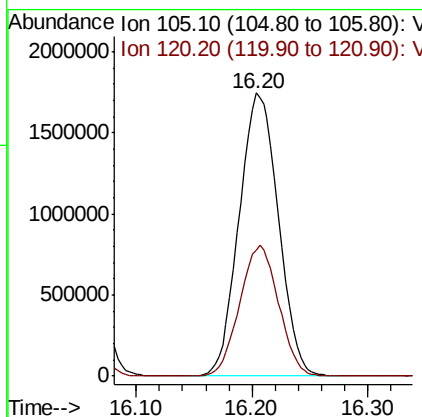
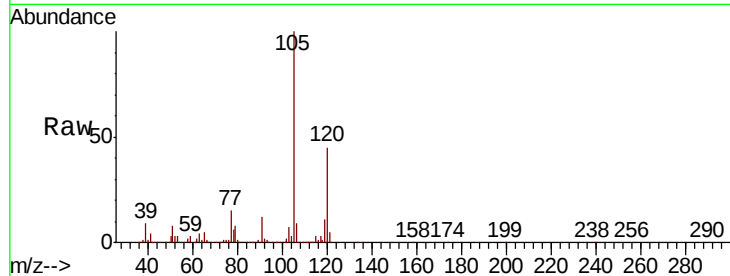




#73  
 1,3,5-Trimethylbenzene  
 Concen: 7.890 ppbv  
 RT: 16.20 min Scan# 4126  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

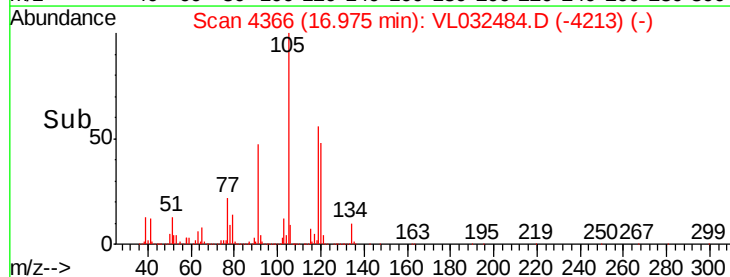
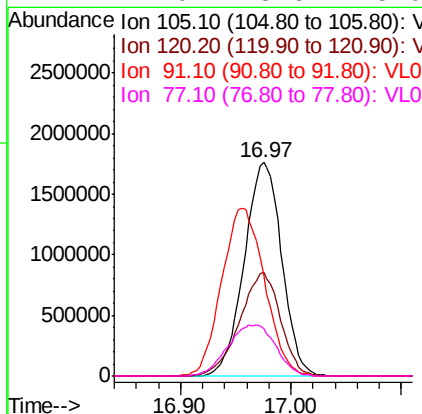
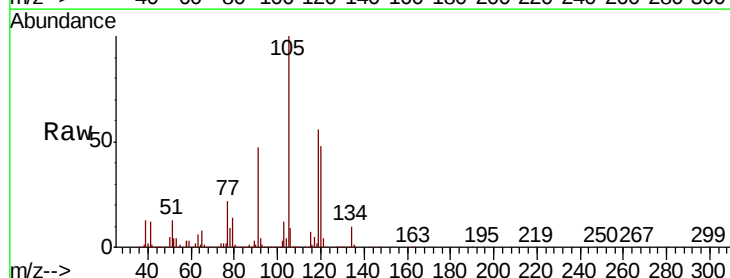
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

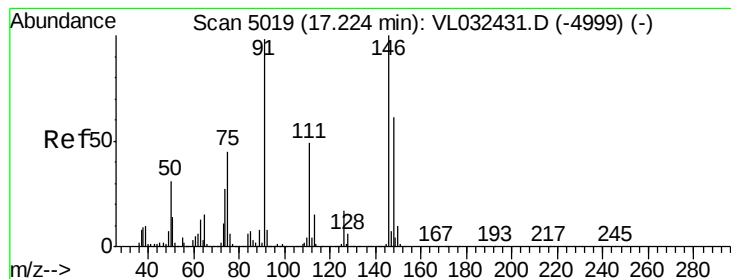
Tgt Ion:105 Resp: 4091401  
 Ion Ratio Lower Upper  
 105 100  
 120 44.7 37.9 56.9



#74  
 1,2,4-Trimethylbenzene  
 Concen: 7.304 ppbv  
 RT: 16.97 min Scan# 4366  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion:105 Resp: 4140350  
 Ion Ratio Lower Upper  
 105 100  
 120 48.2 37.8 56.8  
 91 46.8 41.4 62.0  
 77 22.0 18.6 28.0





#75

1,3-Dichlorobenzene

Concen: 6.777 ppbv

RT: 17.21 min Scan# 4440

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

Instrument :

MSVOA\_L

ClientSampleId :

VL0910ABS01

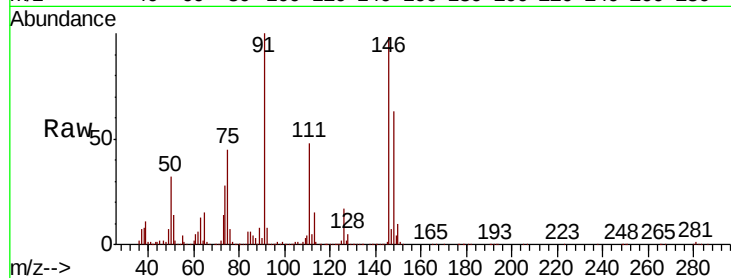
Tgt Ion:146 Resp: 2279589

Ion Ratio Lower Upper

146 100

111 49.0 24.5 73.5

148 63.7 32.0 96.2

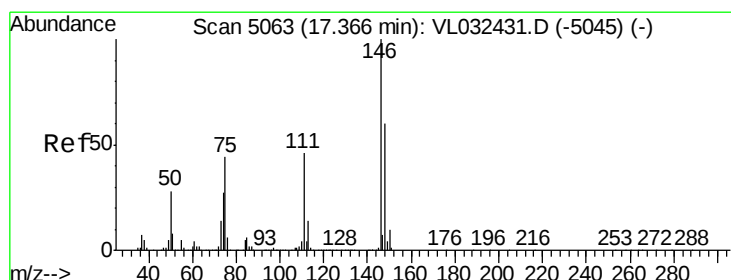
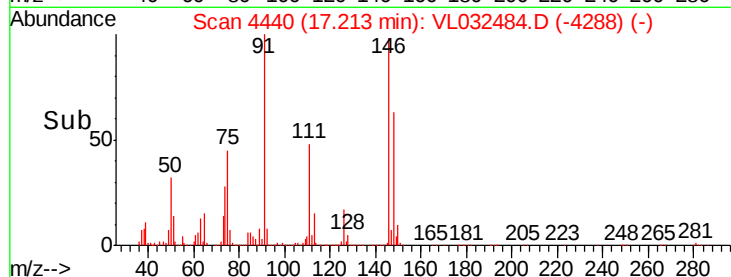
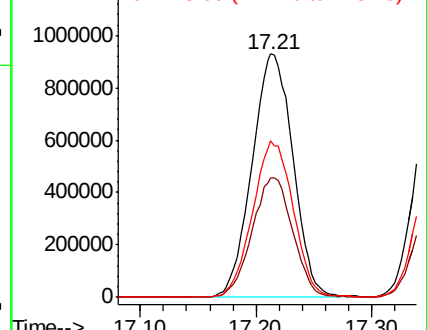


Abundance

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: 7.312 ppbv

RT: 17.35 min Scan# 4484

Delta R.T. -0.01 min

Lab File: VL032484.D

Acq: 10 Sep 2018 18:07

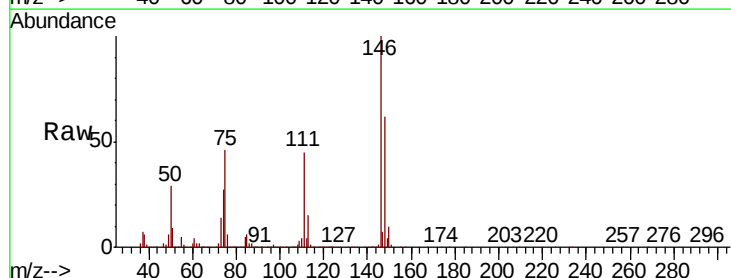
Tgt Ion:146 Resp: 2282150

Ion Ratio Lower Upper

146 100

111 47.1 23.4 70.2

148 63.7 32.0 96.2

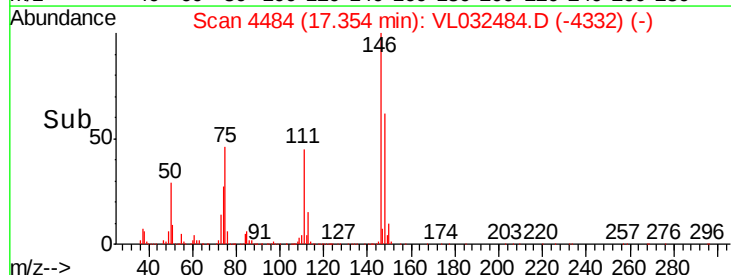
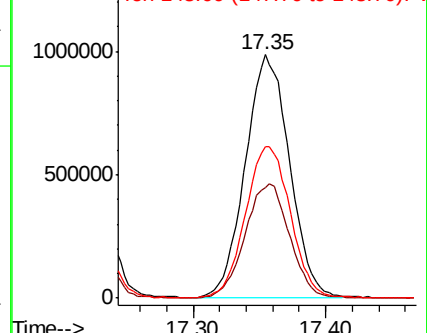


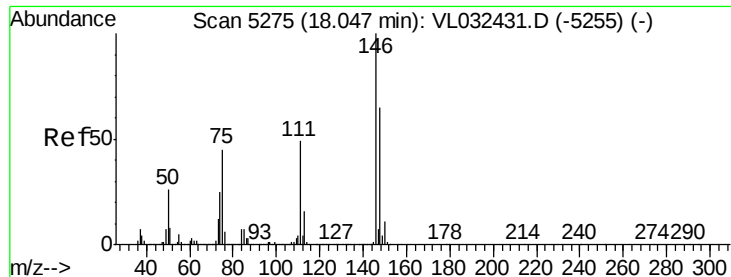
Abundance

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

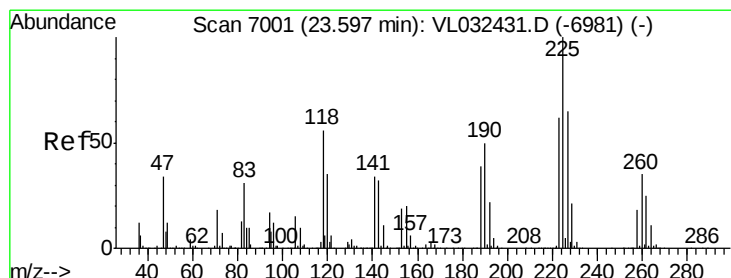
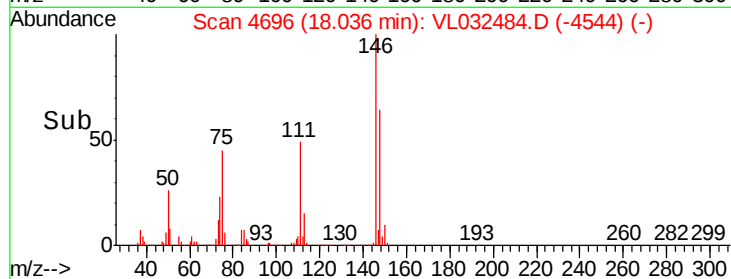
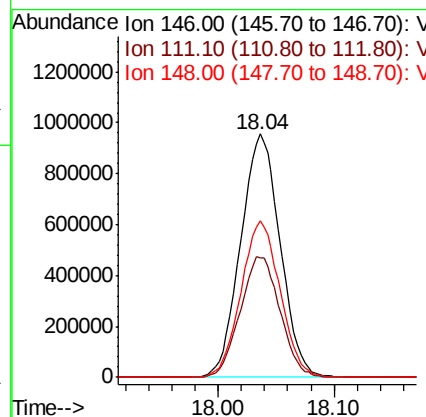
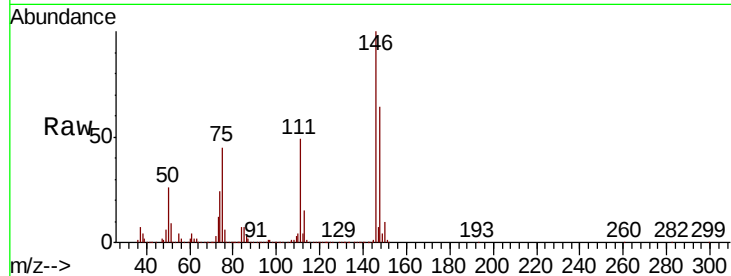




#77  
 1,2-Dichlorobenzene  
 Concen: 6.938 ppbv  
 RT: 18.04 min Scan# 4696  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

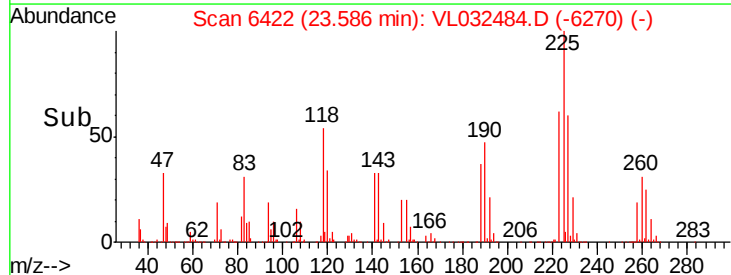
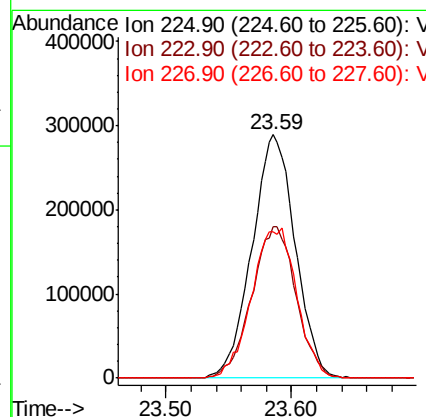
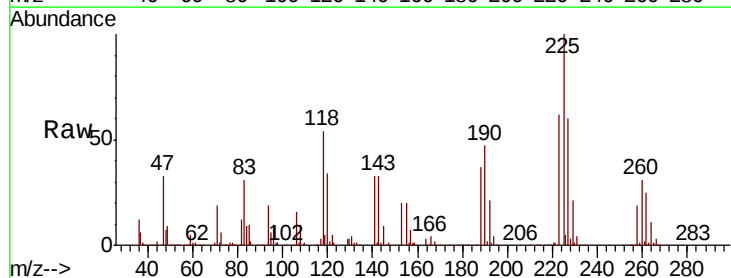
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

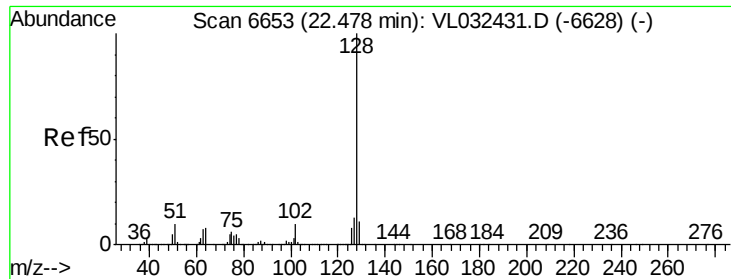
Tgt Ion:146 Resp: 2251483  
 Ion Ratio Lower Upper  
 146 100  
 111 50.2 24.9 74.8  
 148 63.9 32.0 96.0



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 5.717 ppbv  
 RT: 23.59 min Scan# 6422  
 Delta R.T. -0.01 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Tgt Ion:225 Resp: 693252  
 Ion Ratio Lower Upper  
 225 100  
 223 63.7 50.6 76.0  
 227 64.3 51.2 76.8

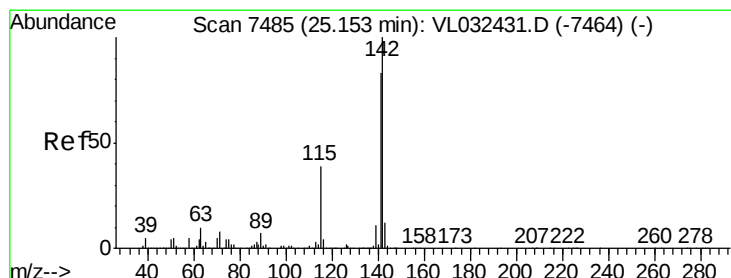
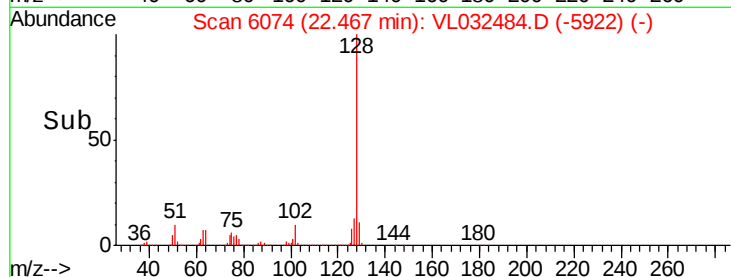
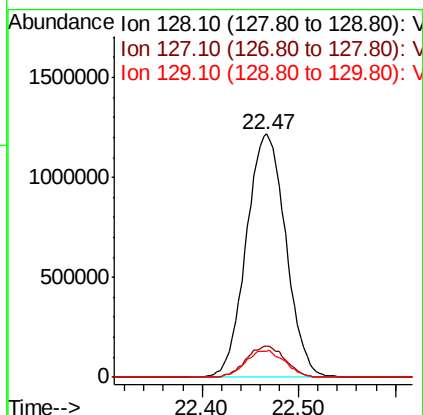
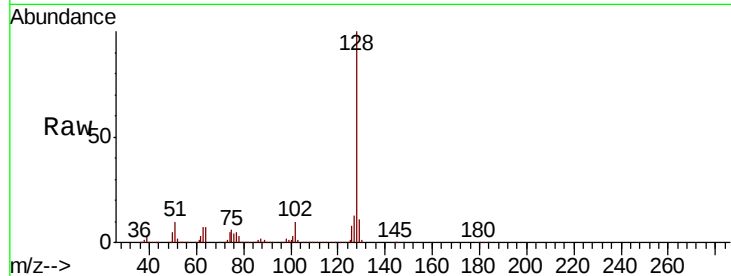




#79  
Naphthalene  
Concen: 7.480 ppbv  
RT: 22.47 min Scan# 6074  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

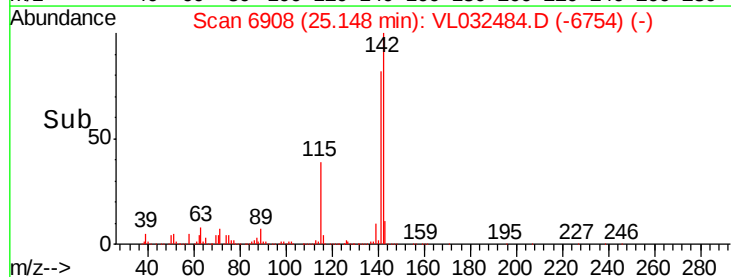
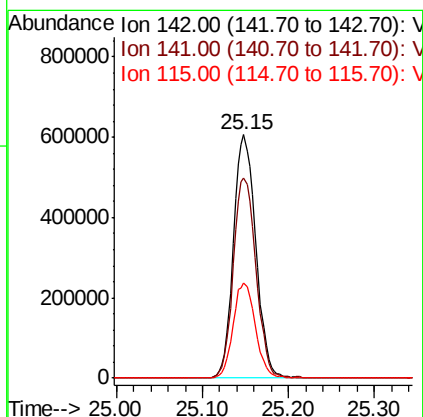
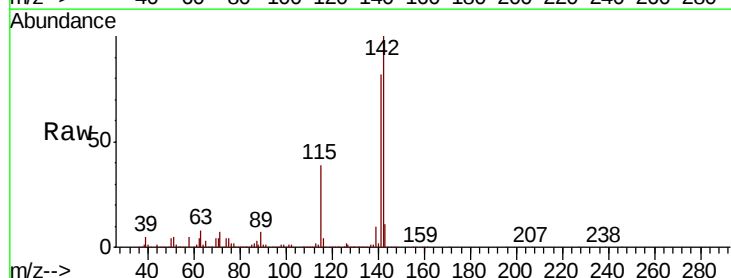
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0910ABS01

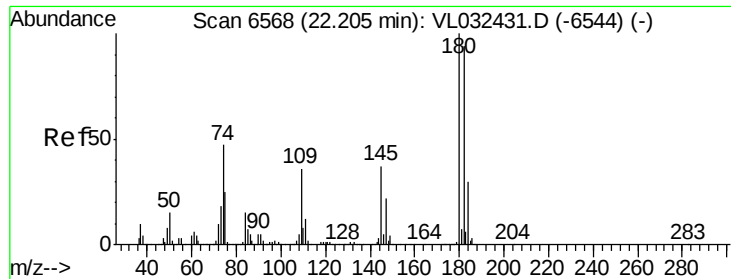
Tgt Ion:128 Resp: 3448271  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.2 15.2  
129 10.9 8.5 12.7



#80  
Naphthalene, 2-methyl-  
Concen: 8.923 ppbv  
RT: 25.15 min Scan# 6908  
Delta R.T. -0.01 min  
Lab File: VL032484.D  
Acq: 10 Sep 2018 18:07

Tgt Ion:142 Resp: 1094455  
Ion Ratio Lower Upper  
142 100  
141 84.2 67.0 100.6  
115 39.1 31.3 46.9

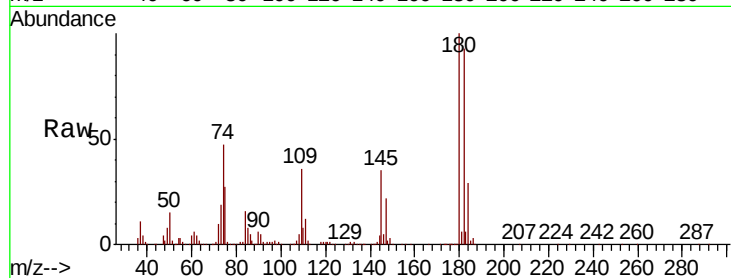




#81  
 1,2,4-Trichlorobenzene  
 Concen: 4.153 ppbv  
 RT: 22.19 min Scan# 5987  
 Delta R.T. -0.02 min  
 Lab File: VL032484.D  
 Acq: 10 Sep 2018 18:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0910ABS01

Tgt Ion:180 Resp: 964169  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 76.1 114.1#  
 184 0.0 23.8 35.8#



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

