

Data File : VL033111.D  
Acq On : 17 Jan 2019 3:50  
Operator : SY/AP  
Sample : IDOC  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

Quant Time: Jan 17 04:28:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL010419AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jan 04 16:09:05 2019  
QLast Update : Fri Jan 04 16:09:05 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 1123789  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2855721  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2972242  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2046933  | 8.98     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 89.80% |

| Target Compounds               |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85  | 2330071 | 11.141 | ppbv | 99     |
| 3) Chlorodifluoromethane       | 3.01 | 51  | 1308040 | 10.283 | ppbv | 97     |
| 4) Chloromethane               | 3.17 | 50  | 727355  | 9.983  | ppbv | 97     |
| 5) Vinyl Chloride              | 3.29 | 62  | 738051  | 10.030 | ppbv | 97     |
| 6) Bromomethane                | 3.51 | 94  | 476695  | 9.536  | ppbv | 99     |
| 7) Chloroethane                | 3.60 | 64  | 279136  | 9.700  | ppbv | 94     |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85  | 1815304 | 10.077 | ppbv | 99     |
| 9) Propene                     | 3.04 | 41  | 544622  | 11.460 | ppbv | 99     |
| 10) Heptane                    | 8.25 | 43  | 1366480 | 10.099 | ppbv | 100    |
| 11) Trichlorofluoromethane     | 4.00 | 101 | 1926815 | 8.338  | ppbv | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 1342872 | 9.190  | ppbv | 100    |
| 13) Ethanol                    | 3.64 | 45  | 102368  | 5.402  | ppbv | 92     |
| 14) Bromoethene                | 3.79 | 108 | 611246  | 9.471  | ppbv | 99     |
| 15) Acetone                    | 3.90 | 43  | 1430423 | 9.196  | ppbv | 99     |
| 16) 1,3-Butadiene              | 3.36 | 39  | 577098  | 9.839  | ppbv | 93     |
| 17) tert-Butyl alcohol         | 4.36 | 59  | 287381  | 8.722  | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.35 | 96  | 616453  | 9.158  | ppbv | 97     |
| 19) Isopropyl Alcohol          | 4.02 | 45  | 740074  | 6.911  | ppbv | 100    |
| 20) Methylene Chloride         | 4.41 | 84  | 525229  | 8.100  | ppbv | 96     |
| 21) Allyl Chloride             | 4.48 | 41  | 984515  | 10.214 | ppbv | 99     |
| 22) trans-1,2-Dichloroethene   | 4.96 | 96  | 618264  | 9.266  | ppbv | 96     |
| 23) Vinyl Acetate              | 5.15 | 43  | 2046469 | 10.342 | ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.09 | 63  | 1519266 | 9.043  | ppbv | 99     |
| 25) Ethyl Acetate              | 5.77 | 43  | 2407172 | 9.155  | ppbv | 99     |
| 26) Hexane                     | 5.78 | 57  | 1144276 | 9.243  | ppbv | 98     |
| 27) Carbon Disulfide           | 4.62 | 76  | 1555213 | 10.186 | ppbv | 98     |
| 28) Methyl tert-Butyl Ether    | 5.11 | 73  | 1915949 | 9.915  | ppbv | 100    |
| 29) Chloroform                 | 5.85 | 83  | 1867831 | 8.853  | ppbv | 100    |
| 30) Cyclohexane                | 7.25 | 84  | 979995  | 10.616 | ppbv | 99     |
| 31) cis-1,2-Dichloroethene     | 5.64 | 61  | 1162180 | 10.109 | ppbv | 95     |
| 32) 1,1,1-Trichloroethane      | 6.62 | 97  | 1979431 | 9.244  | ppbv | 100    |
| 34) 2-Butanone                 | 5.33 | 43  | 1525548 | 9.194  | ppbv | 100    |
| 35) Carbon Tetrachloride       | 7.13 | 117 | 2155604 | 8.788  | ppbv | 98     |
| 36) Benzene                    | 7.00 | 78  | 2339856 | 10.003 | ppbv | 99     |
| 37) 1,2-Dichloroethane         | 6.41 | 62  | 1458512 | 8.930  | ppbv | 100    |
| 38) Trichloroethene            | 7.96 | 130 | 965370  | 10.032 | ppbv | 98     |
| 39) 1,2-Dichloropropane        | 7.74 | 63  | 852876  | 9.705  | ppbv | 97     |
| 40) 1,4-Dioxane                | 7.95 | 88  | 310434  | 9.306  | ppbv | 96     |
| 41) Tetrahydrofuran            | 6.15 | 42  | 876513  | 10.379 | ppbv | 99     |
| 42) Bromodichloromethane       | 7.92 | 83  | 2012568 | 8.970  | ppbv | 98     |
| 43) Methyl Methacrylate        | 8.14 | 69  | 910520  | 10.373 | ppbv | 99     |

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ClientSampleId :

IDOC-4

Quant Time: Jan 17 04:28:10 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL010419AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jan 04 16:09:05 2019

QLast Update : Fri Jan 04 16:09:05 2019

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.99  | 57   | 3814482  | 9.629  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.42  | 75   | 1223605  | 11.199 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.83  | 75   | 1431644  | 11.480 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.61  | 97   | 935322   | 9.110  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.45 | 129  | 1732778  | 9.552  | ppbv   | 100      |
| 49) Bromoform                 | 13.20 | 173  | 1377644  | 8.692  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.87  | 43   | 2150372  | 10.228 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.27 | 43   | 1611504  | 10.593 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.37 | 164  | 816833   | 9.879  | ppbv   | 96       |
| 53) Toluene                   | 9.95  | 91   | 2665601  | 10.633 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.76 | 107  | 1450124  | 9.803  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.28 | 131  | 1211596  | 7.889  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.30 | 112  | 2024318  | 8.160  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.86 | 91   | 3530021  | 9.407  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.12 | 91   | 2689462  | 7.747  | ppbv # | 100      |
| 60) o-Xylene                  | 13.85 | 91   | 2849962  | 8.386  | ppbv   | 100      |
| 61) Styrene                   | 13.69 | 104  | 2116874  | 9.762  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.83 | 105  | 4022140  | 8.316  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 1895510  | 7.508  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.72 | 120  | 1000815  | 8.146  | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.91 | 119  | 3514783  | 8.204  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.15 | 91   | 2028678  | 8.308  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.46 | 105  | 4984259  | 8.130  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.82 | 119  | 4208854  | 8.458  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.71 | 91   | 4328021  | 8.652  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.61 | 91   | 2939560  | 8.570  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 16.00 | 105  | 3222032  | 8.627  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.15 | 105  | 3087213  | 8.378  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.93 | 105  | 3226733  | 7.906  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 1839718  | 7.658  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.31 | 146  | 1817431  | 8.305  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.99 | 146  | 1817880  | 8.403  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.54 | 225  | 1249027  | 7.517  | ppbv   | 100      |
| 79) Naphthalene               | 22.42 | 128  | 3809836  | 11.083 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.11 | 142  | 880850   | 8.444  | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 1796043  | 10.815 | ppbv   | 100      |

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

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Sample : IDOC

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ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
IDOC-4

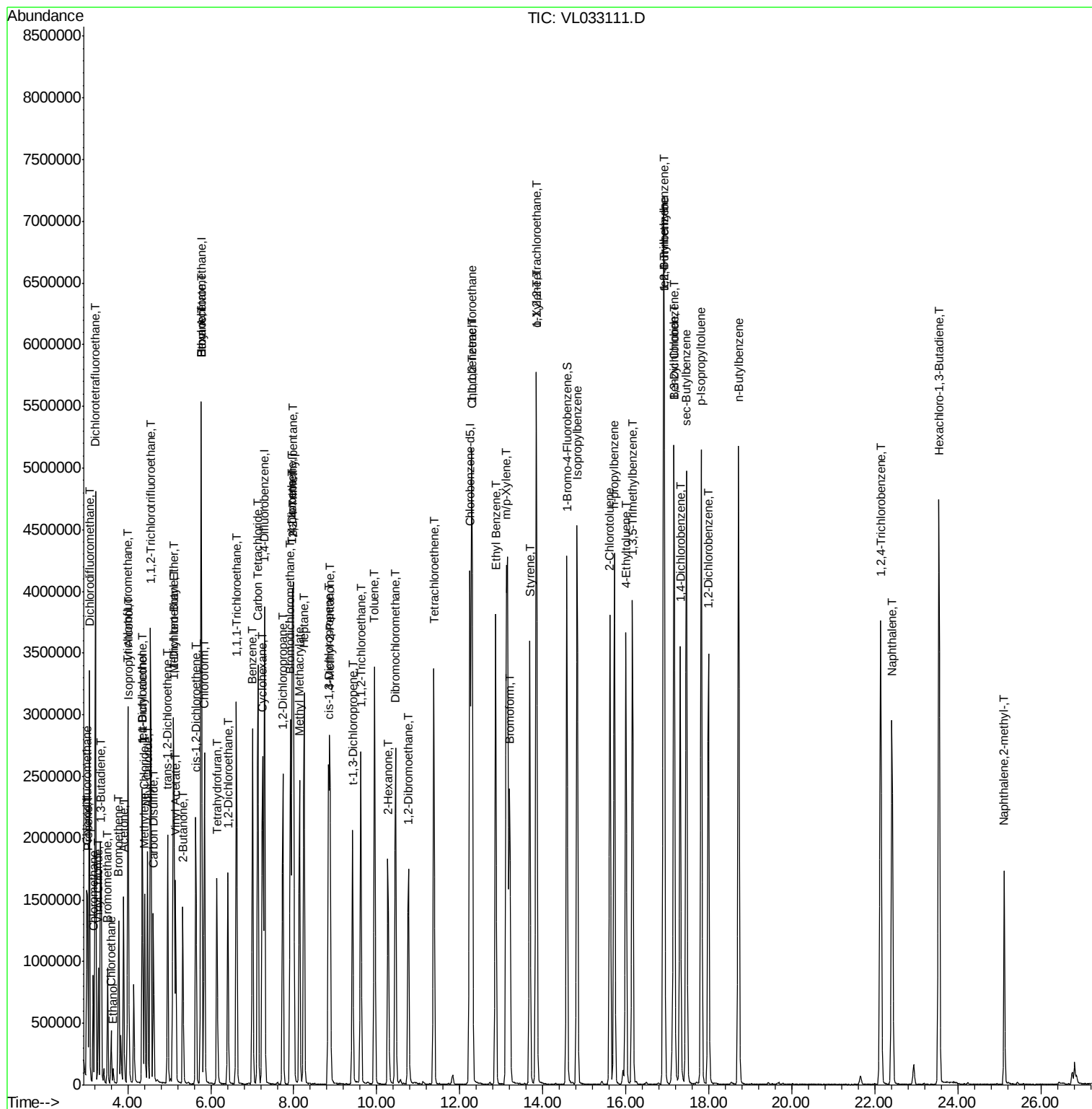
Quant Time: Jan 17 04:28:10 2019

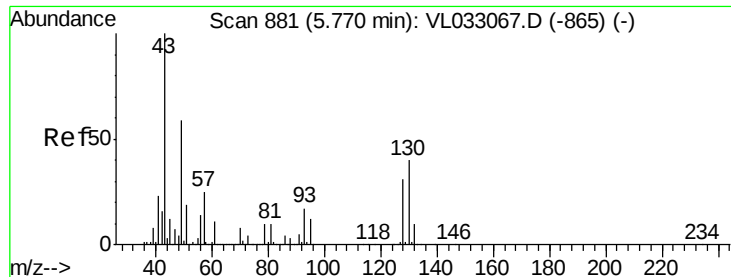
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A\_L\METHODS\VL010419AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Jan 04 16:09:05 2019

QLast Update : Fri Jan 04 16:09:05 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

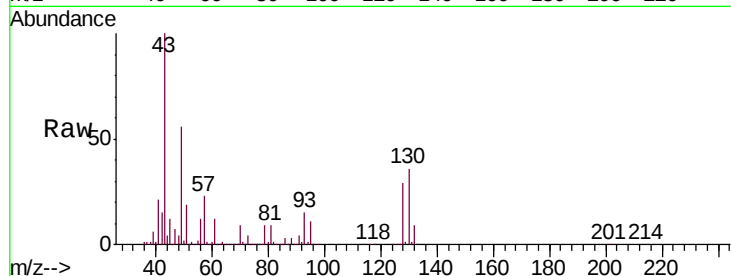
Tgt Ion: 49 Resp: 1123789

Ion Ratio Lower Upper

49 100

128 52.3 26.2 78.5

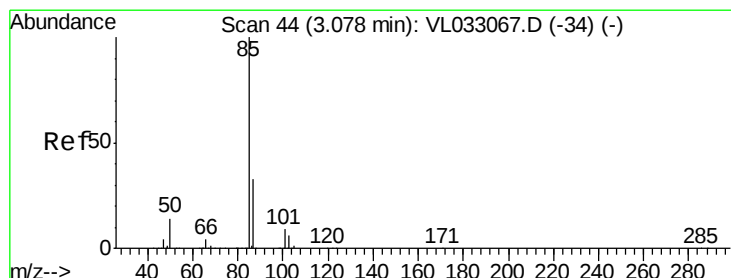
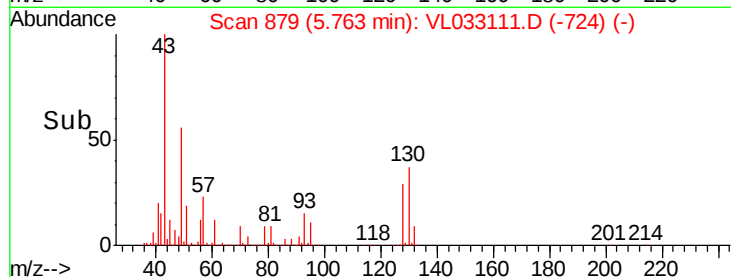
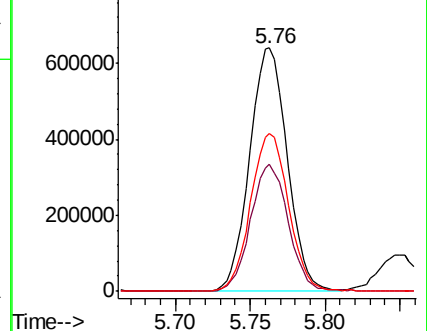
130 65.8 33.6 100.6



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: 11.141 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033111.D

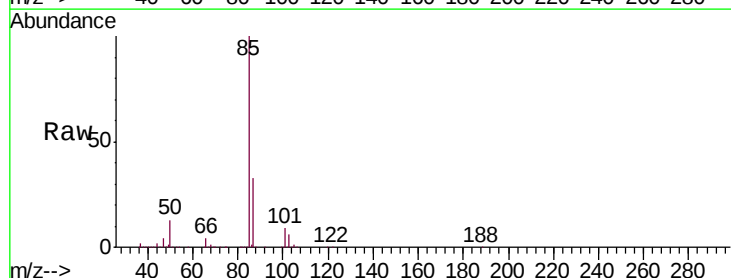
Acq: 17 Jan 2019 3:50

Tgt Ion: 85 Resp: 2330071

Ion Ratio Lower Upper

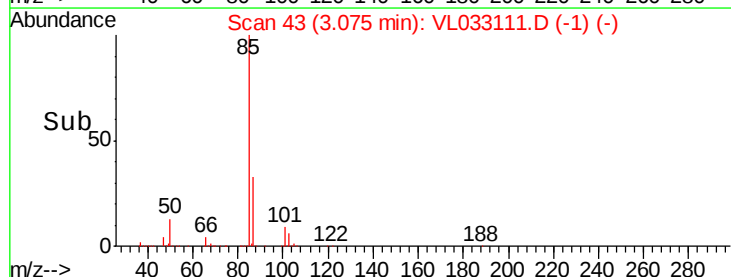
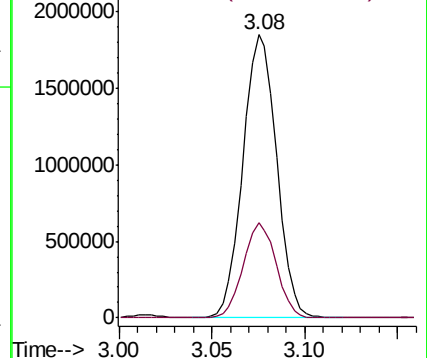
85 100

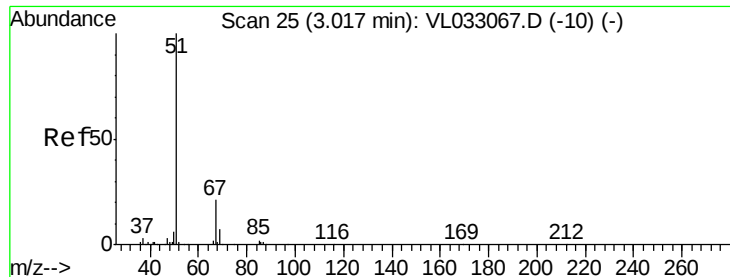
87 33.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.283 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

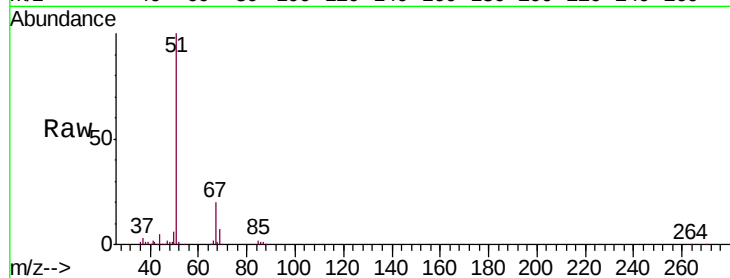
IDOC-4

Tgt Ion: 51 Resp: 1308040

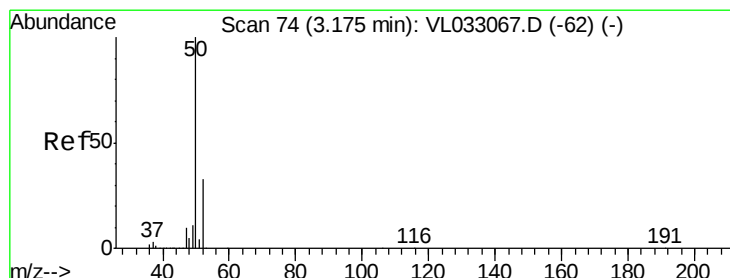
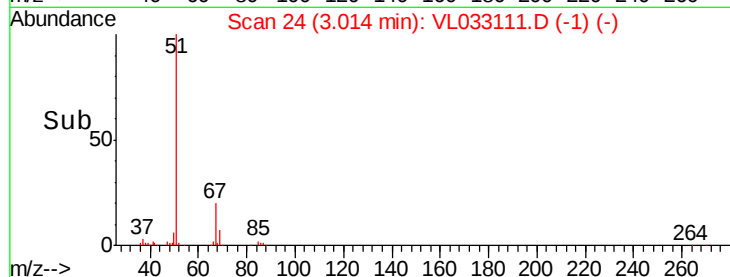
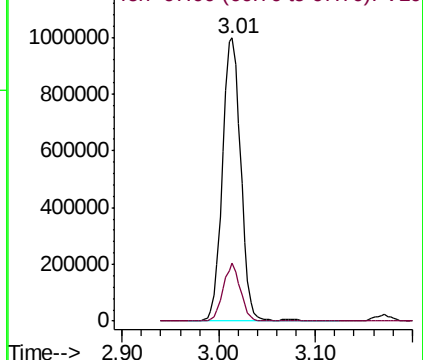
Ion Ratio Lower Upper

51 100

67 19.2 16.3 24.5



Abundance Ion 51.00 (50.70 to 51.70): VL0  
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.983 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033111.D

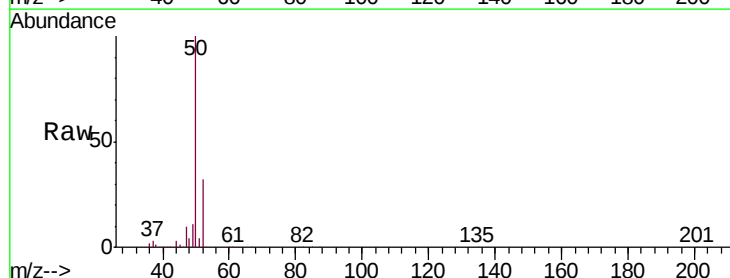
Acq: 17 Jan 2019 3:50

Tgt Ion: 50 Resp: 727355

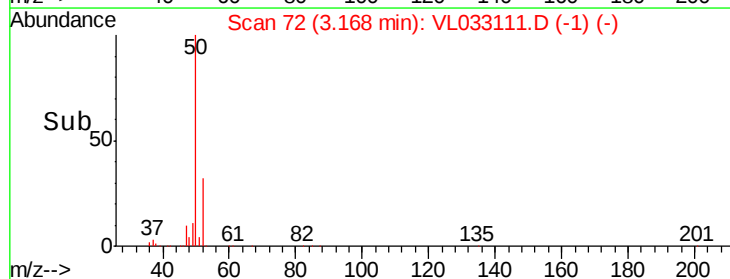
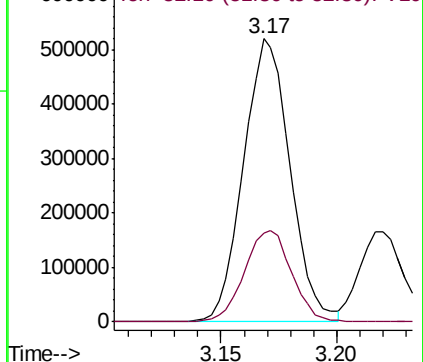
Ion Ratio Lower Upper

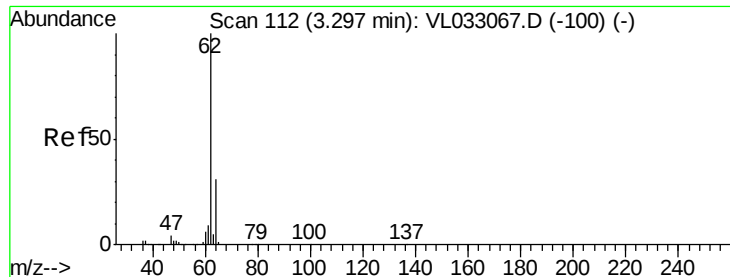
50 100

52 31.6 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0  
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.030 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

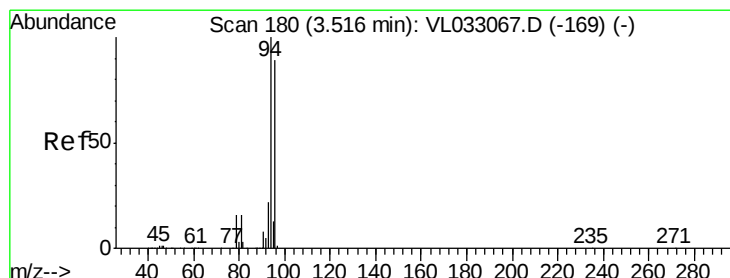
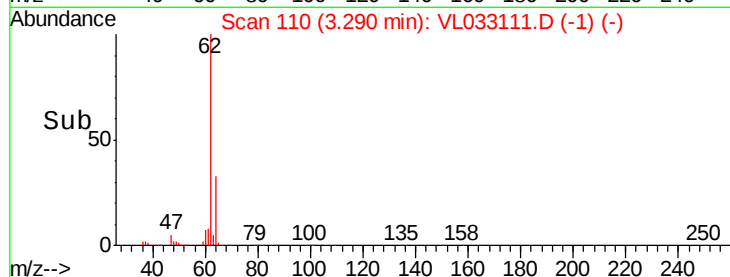
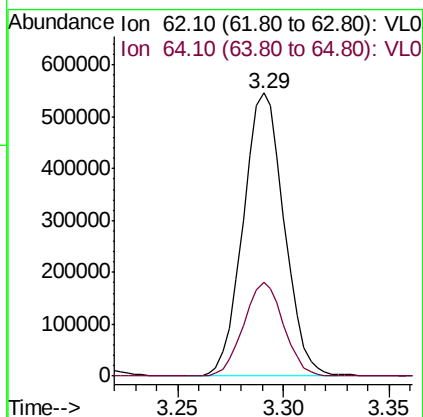
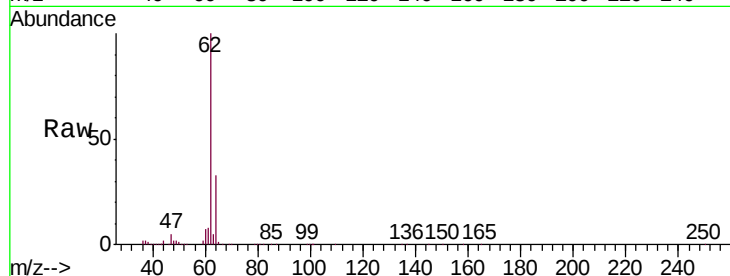
IDOC-4

Tgt Ion: 62 Resp: 738051

Ion Ratio Lower Upper

62 100

64 33.3 25.3 37.9



#6

Bromomethane

Concen: 9.536 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033111.D

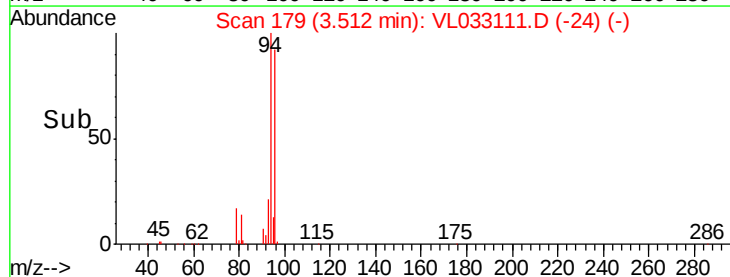
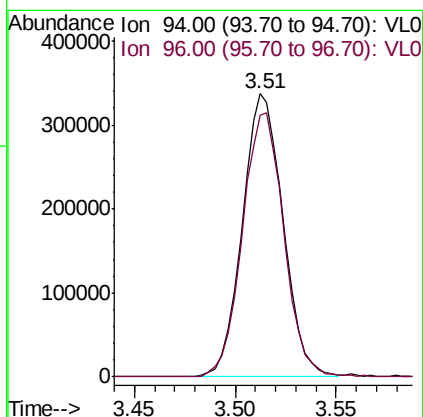
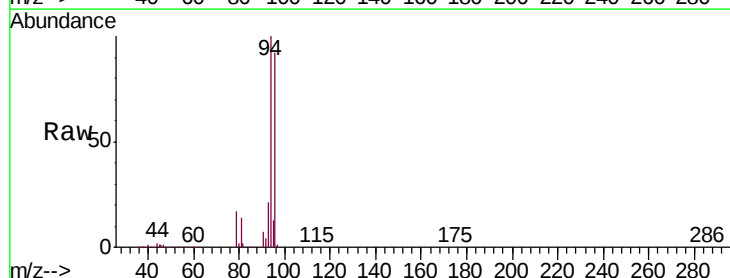
Acq: 17 Jan 2019 3:50

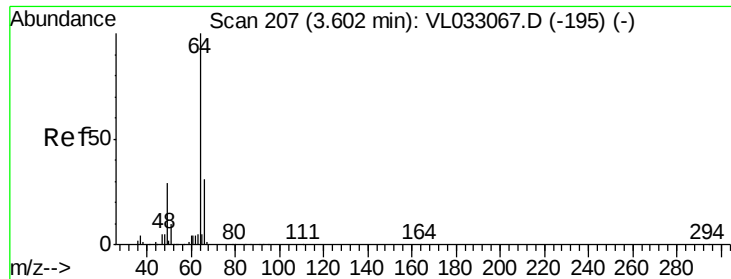
Tgt Ion: 94 Resp: 476695

Ion Ratio Lower Upper

94 100

96 92.3 72.8 109.2





#7

Chloroethane

Concen: 9.700 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

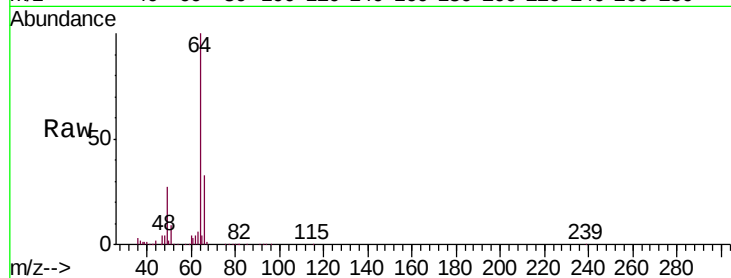
IDOC-4

Tgt Ion: 64 Resp: 279136

Ion Ratio Lower Upper

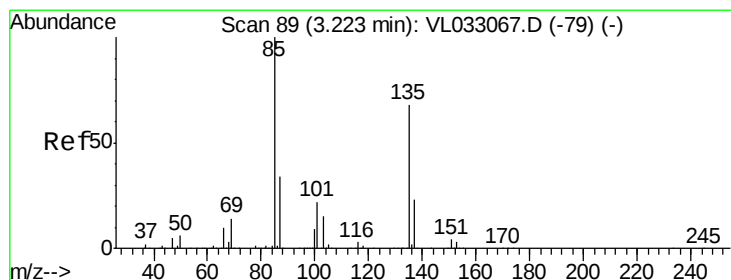
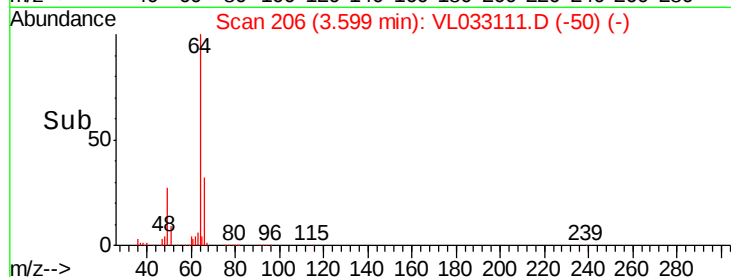
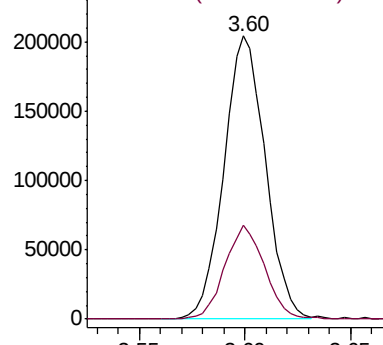
64 100

66 33.0 23.7 35.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.077 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033111.D

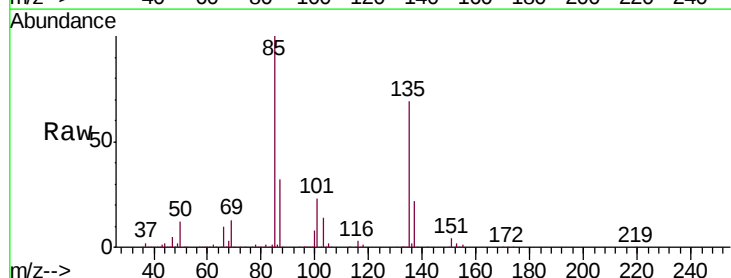
Acq: 17 Jan 2019 3:50

Tgt Ion: 85 Resp: 1815304

Ion Ratio Lower Upper

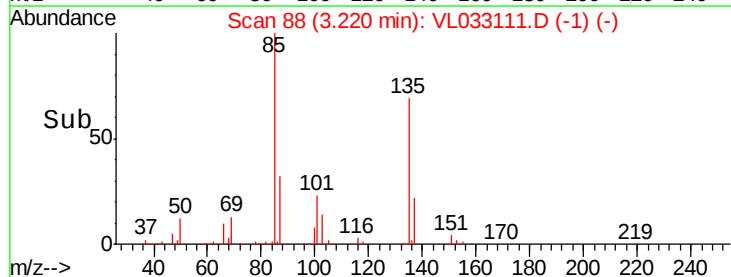
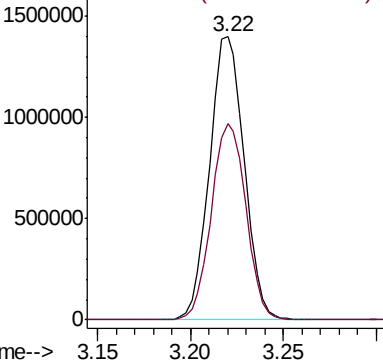
85 100

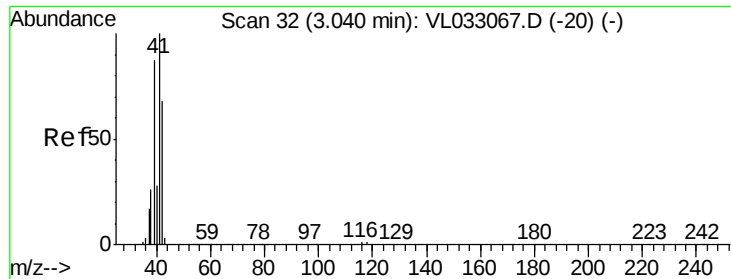
135 69.5 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.460 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

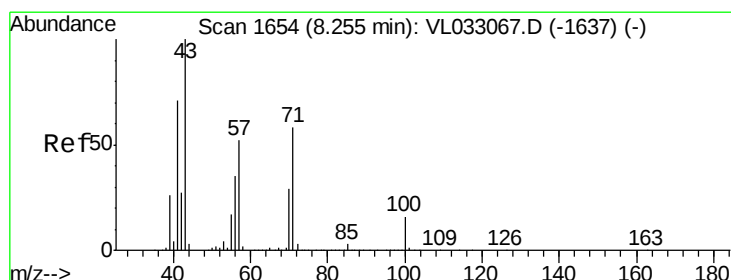
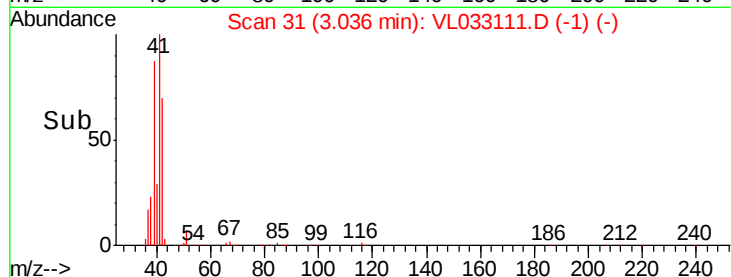
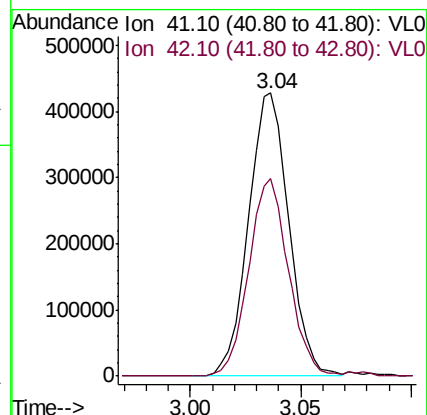
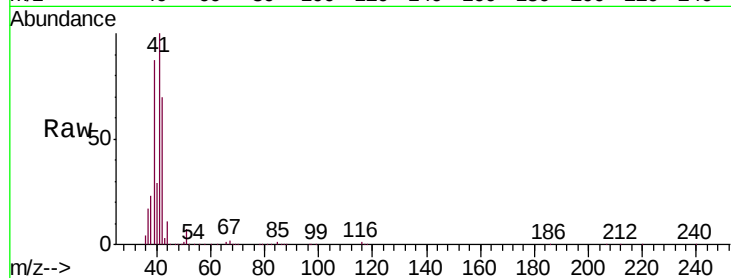
IDOC-4

Tgt Ion: 41 Resp: 544622

Ion Ratio Lower Upper

41 100

42 70.2 55.3 82.9



#10

Heptane

Concen: 10.099 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033111.D

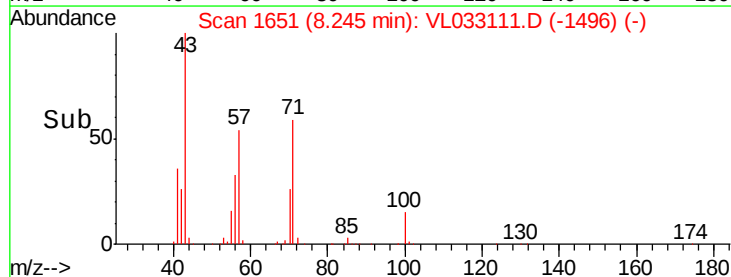
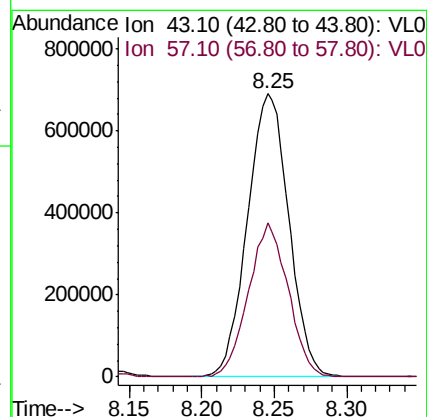
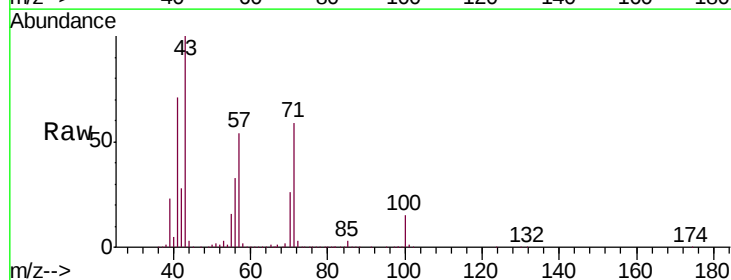
Acq: 17 Jan 2019 3:50

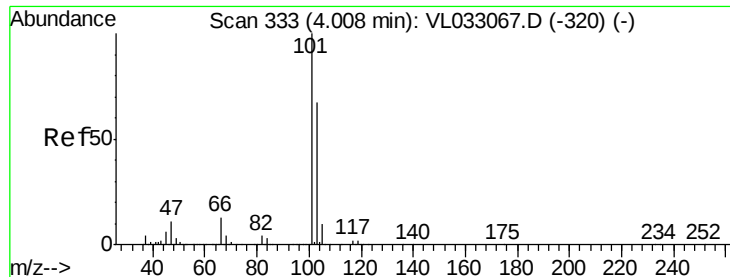
Tgt Ion: 43 Resp: 1366480

Ion Ratio Lower Upper

43 100

57 52.1 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.338 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

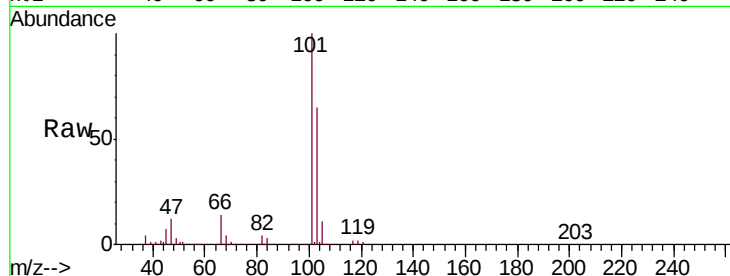
IDOC-4

Tgt Ion:101 Resp: 1926815

Ion Ratio Lower Upper

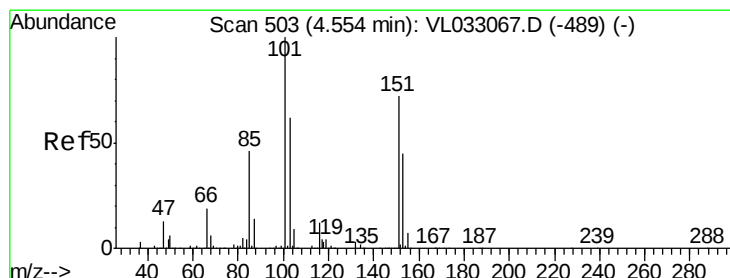
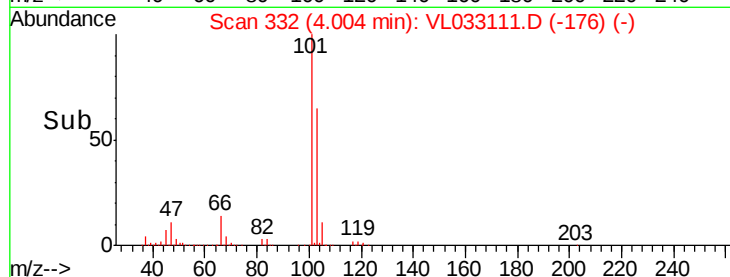
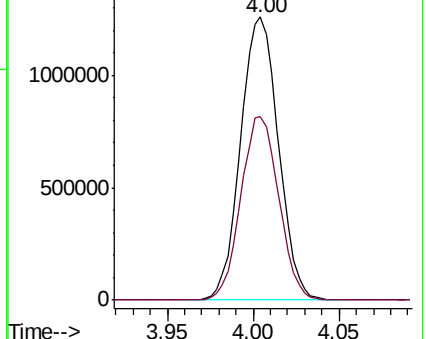
101 100

103 64.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.190 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033111.D

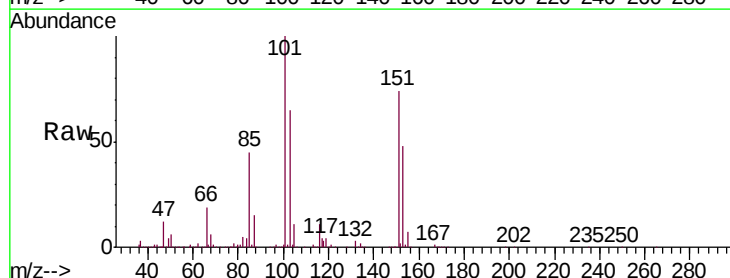
Acq: 17 Jan 2019 3:50

Tgt Ion:101 Resp: 1342872

Ion Ratio Lower Upper

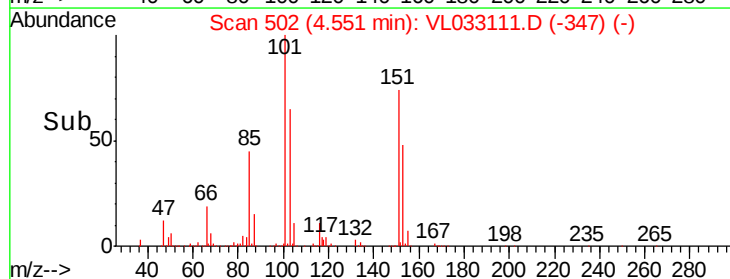
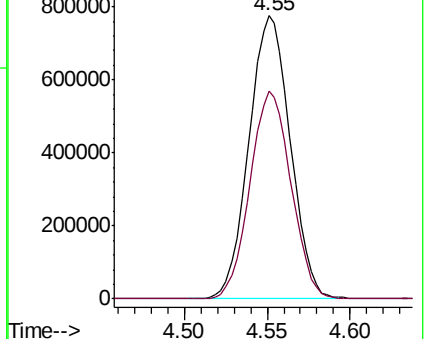
101 100

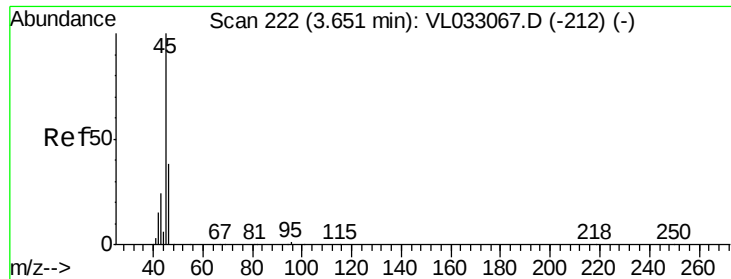
151 73.0 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 5.402 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

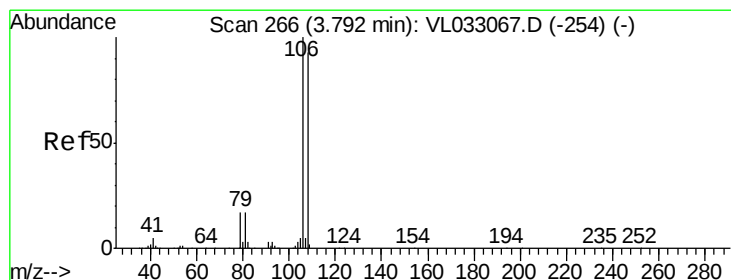
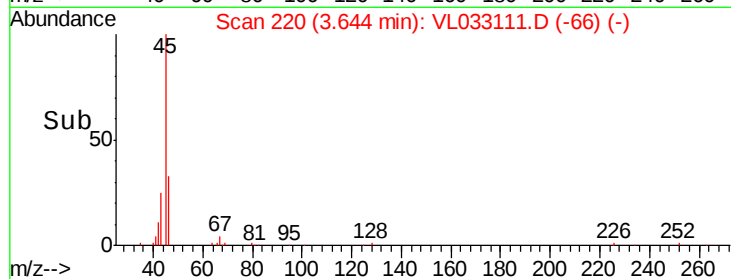
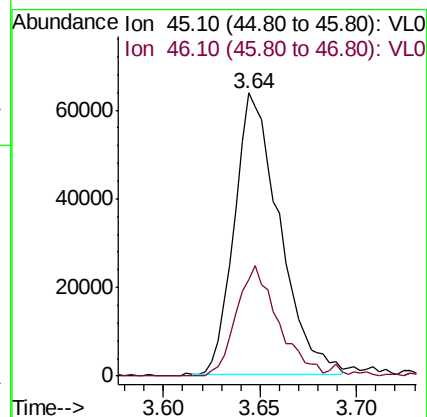
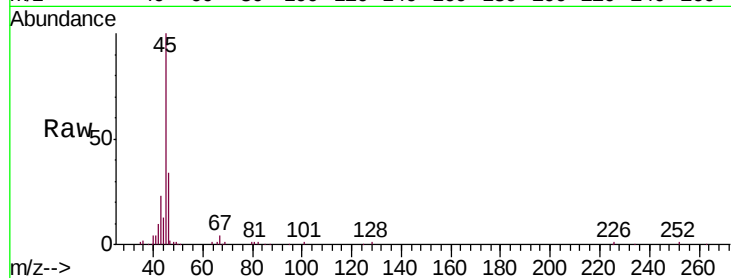
IDOC-4

Tgt Ion: 45 Resp: 102368

Ion Ratio Lower Upper

45 100

46 39.0 13.8 55.2



#14

Bromoethene

Concen: 9.471 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

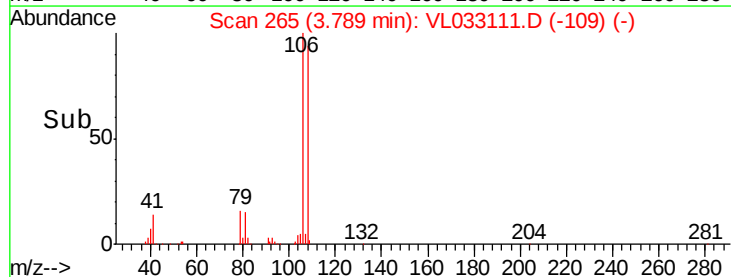
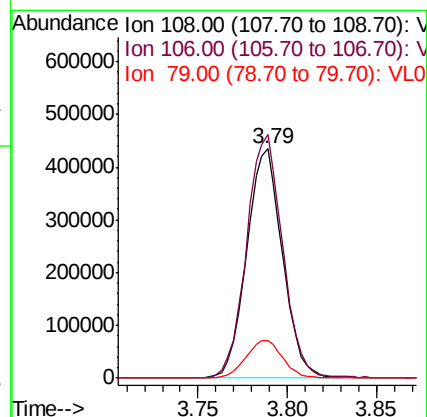
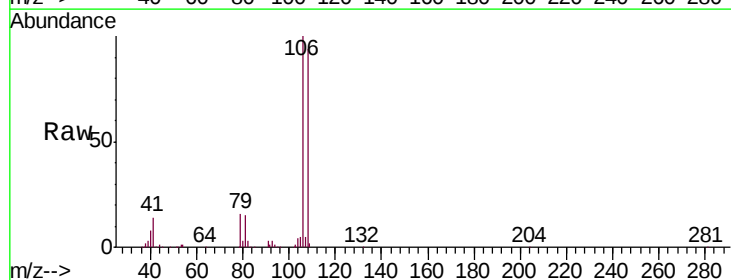
Tgt Ion: 108 Resp: 611246

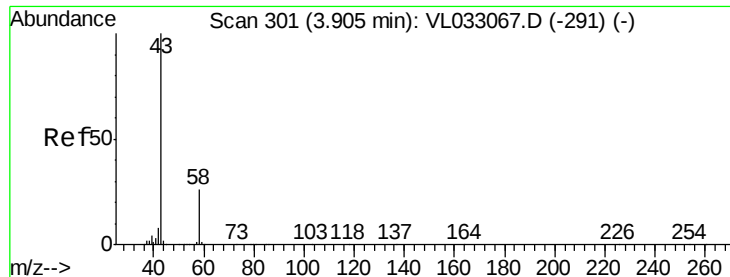
Ion Ratio Lower Upper

108 100

106 107.1 86.4 129.6

79 17.3 14.3 21.5





#15

Acetone

Concen: 9.196 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

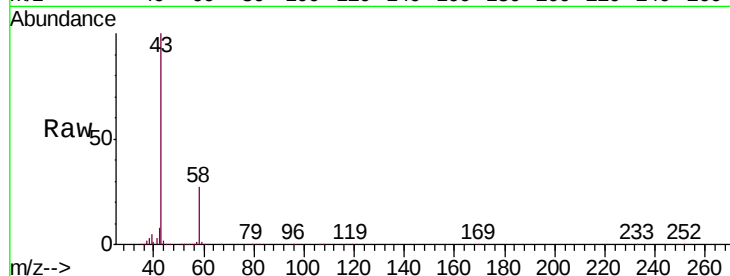
IDOC-4

Tgt Ion: 43 Resp: 1430423

Ion Ratio Lower Upper

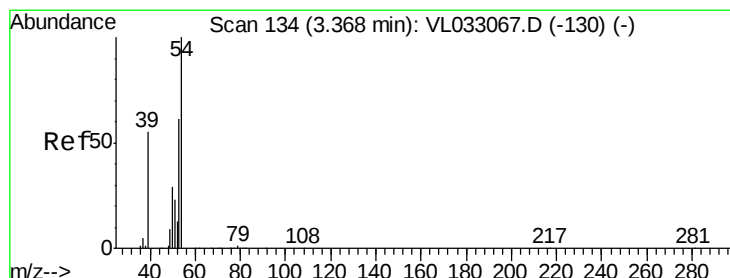
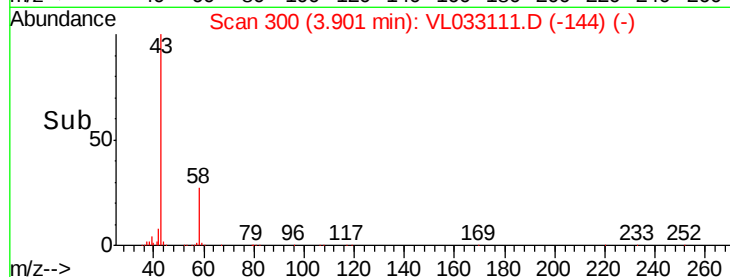
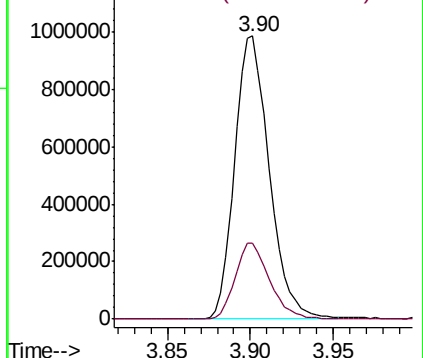
43 100

58 26.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.839 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033111.D

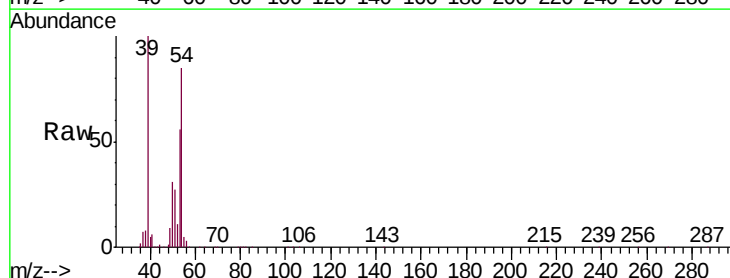
Acq: 17 Jan 2019 3:50

Tgt Ion: 39 Resp: 577098

Ion Ratio Lower Upper

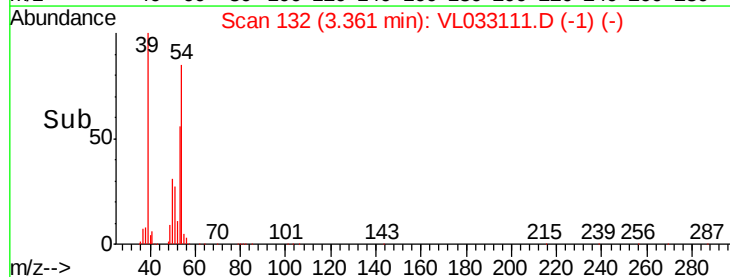
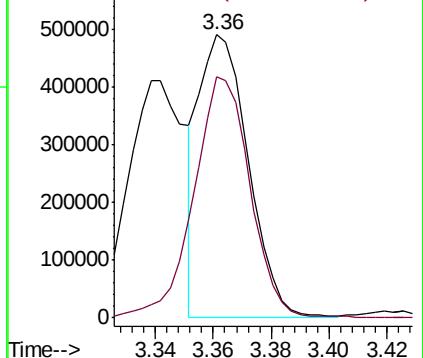
39 100

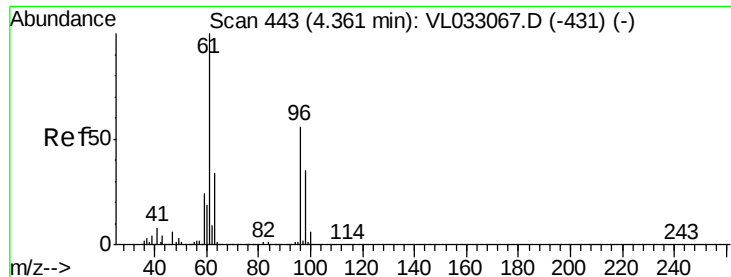
54 98.5 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 8.722 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

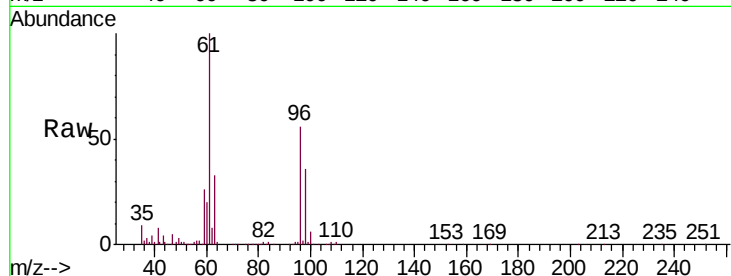
IDOC-4

Tgt Ion: 59 Resp: 287381

Ion Ratio Lower Upper

59 100

57 9.7 7.7 11.5



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

150000

100000

50000

0

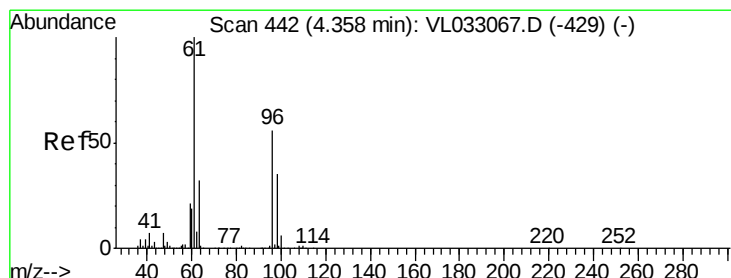
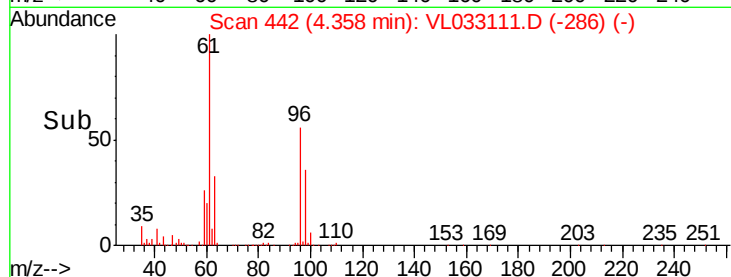
4.36

4.35

4.40

4.45

Time-->



#18

1,1-Dichloroethene

Concen: 9.158 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

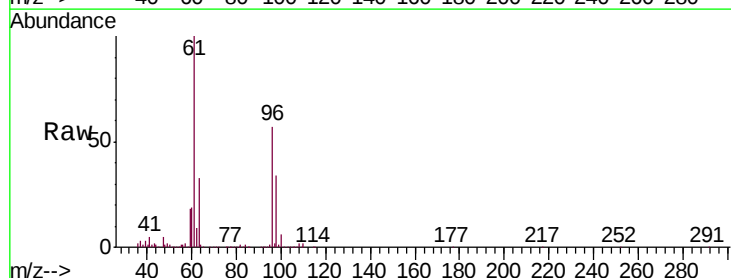
Tgt Ion: 96 Resp: 616453

Ion Ratio Lower Upper

96 100

61 176.7 143.7 215.5

98 60.3 52.1 78.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

600000

400000

200000

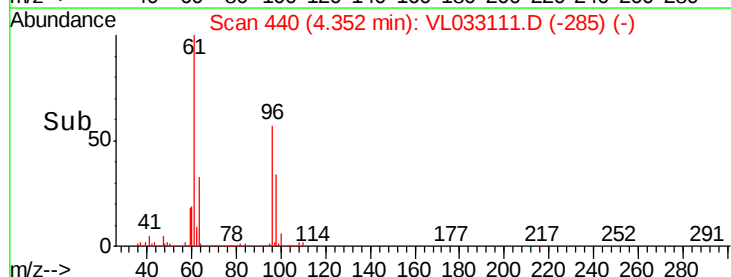
0

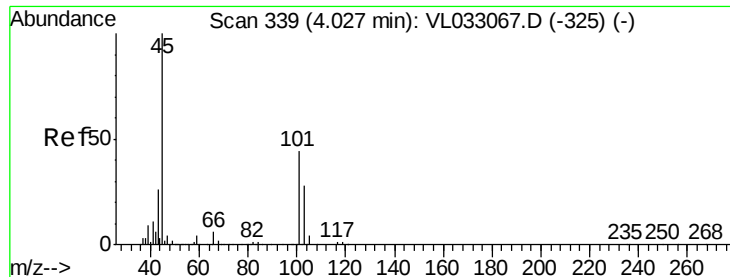
4.35

4.30

4.40

Time-->





#19

Isopropyl Alcohol

Concen: 6.911 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

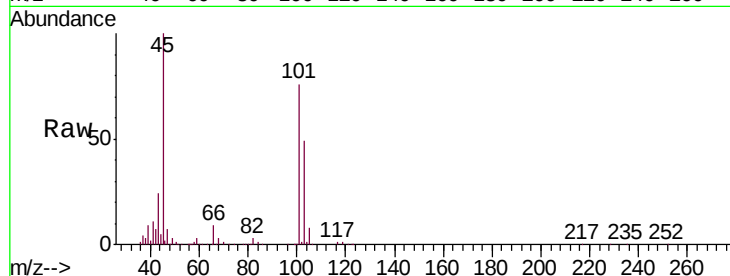
IDOC-4

Tgt Ion: 45 Resp: 740074

Ion Ratio Lower Upper

45 100

58 1.6 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

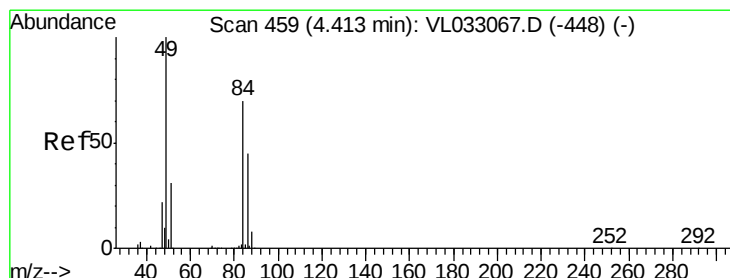
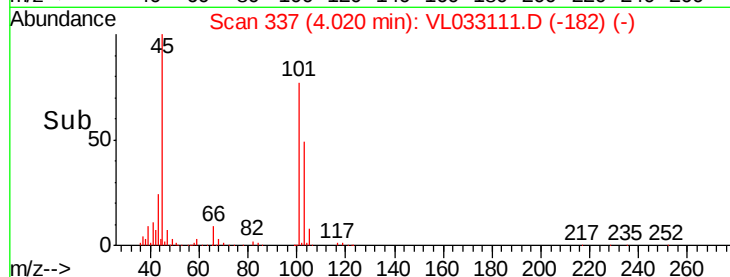
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.100 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 84 Resp: 525229

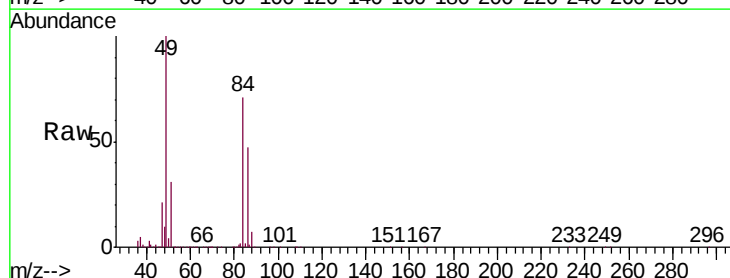
Ion Ratio Lower Upper

84 100

49 139.4 115.8 173.6

51 43.2 35.7 53.5

86 65.6 49.7 74.5



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

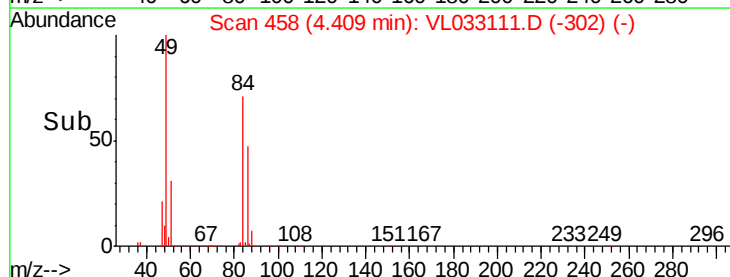
600000

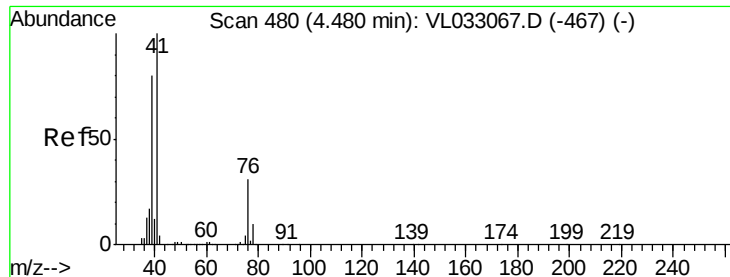
400000

200000

0

Time-->

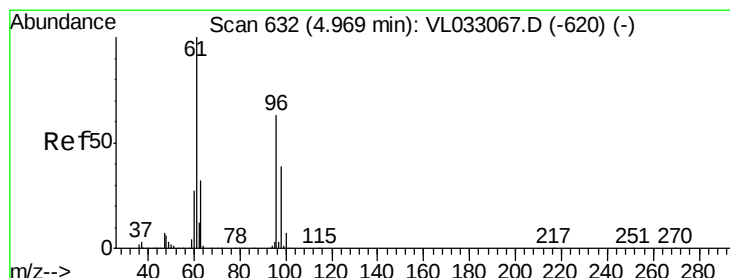
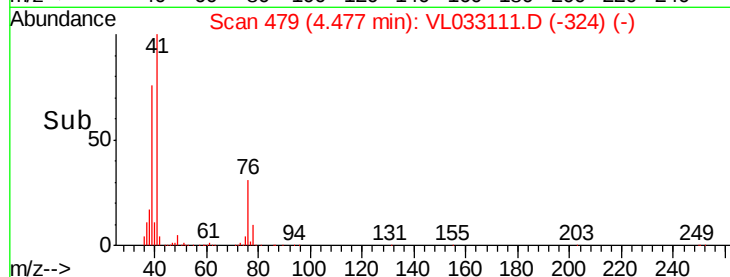
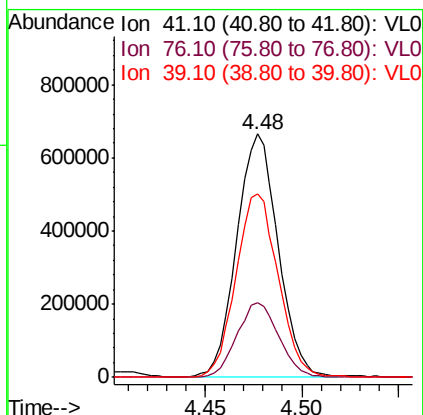
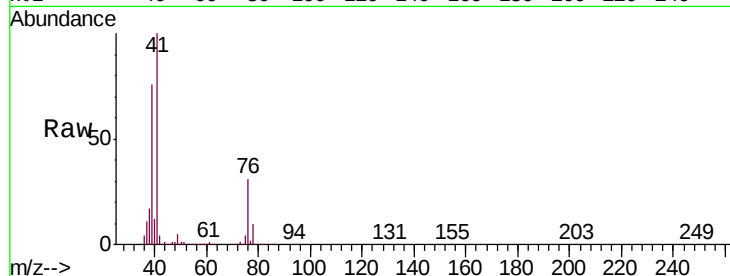




#21  
 Allyl Chloride  
 Concen: 10.214 ppbv  
 RT: 4.48 min Scan# 479  
 Delta R.T. -0.00 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

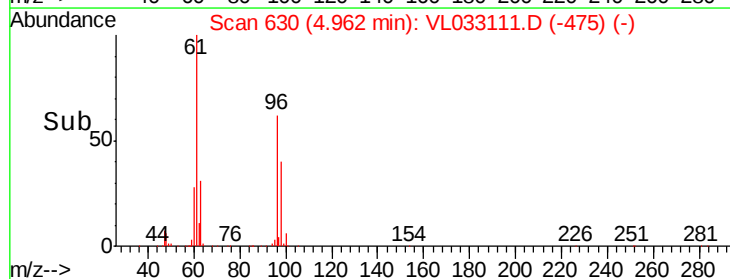
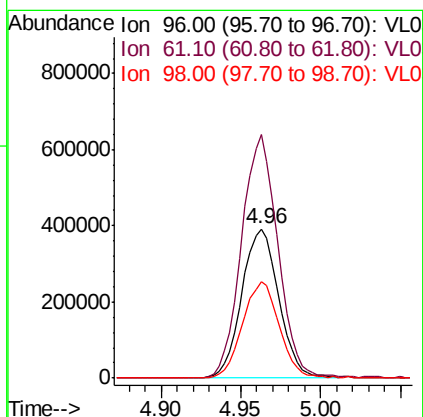
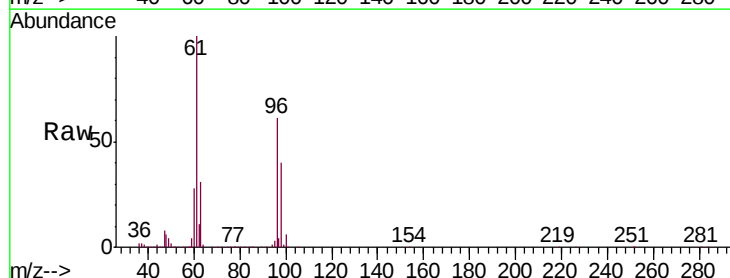
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

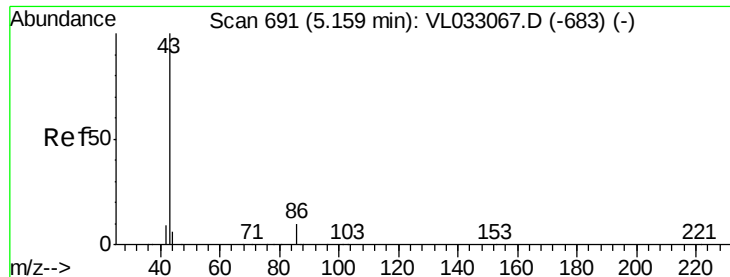
Tgt Ion: 41 Resp: 984515  
 Ion Ratio Lower Upper  
 41 100  
 76 31.3 24.6 36.8  
 39 77.4 62.8 94.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.266 ppbv  
 RT: 4.96 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 96 Resp: 618264  
 Ion Ratio Lower Upper  
 96 100  
 61 163.1 125.2 187.8  
 98 64.5 50.9 76.3





#23

Vinyl Acetate

Concen: 10.342 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

Tgt Ion: 43 Resp: 2046469

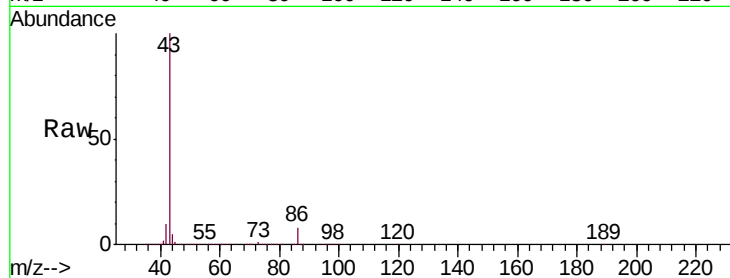
Ion Ratio Lower Upper

43 100

86 7.9 6.2 9.4

42 9.8 8.1 12.1

44 5.1 4.3 6.5

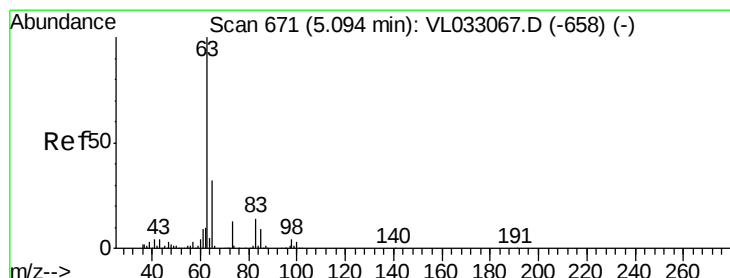
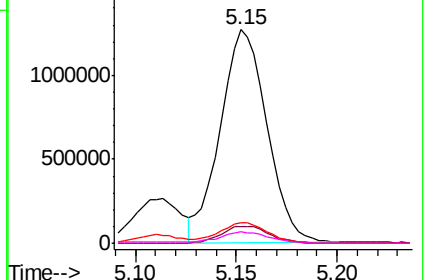
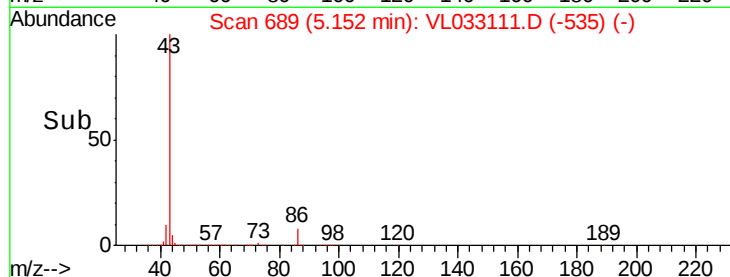


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.043 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

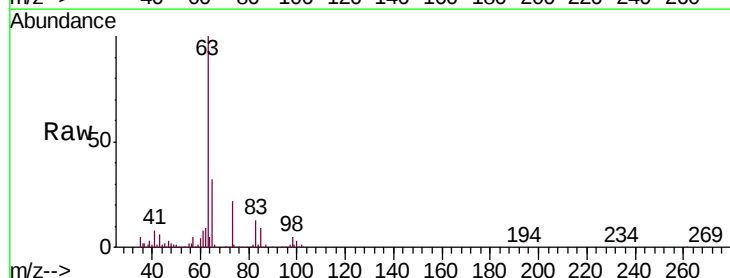
Tgt Ion: 63 Resp: 1519266

Ion Ratio Lower Upper

63 100

98 5.2 2.4 7.2

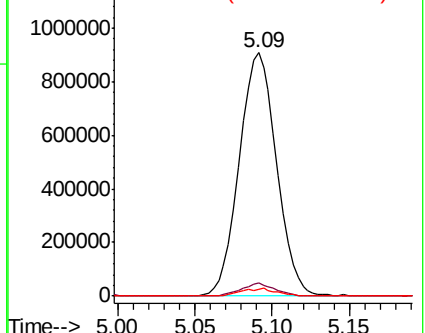
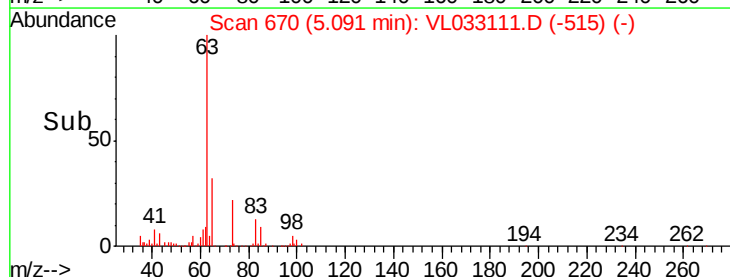
100 2.7 1.4 4.0

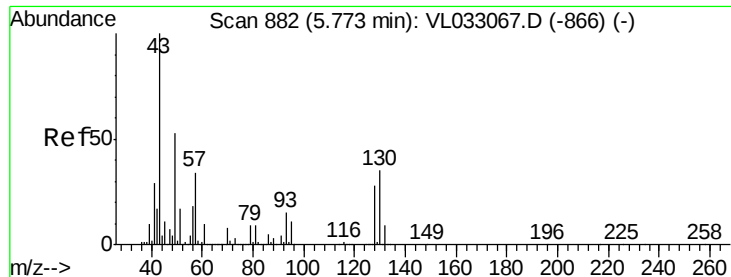


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.155 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

Tgt Ion: 43 Resp: 2407172

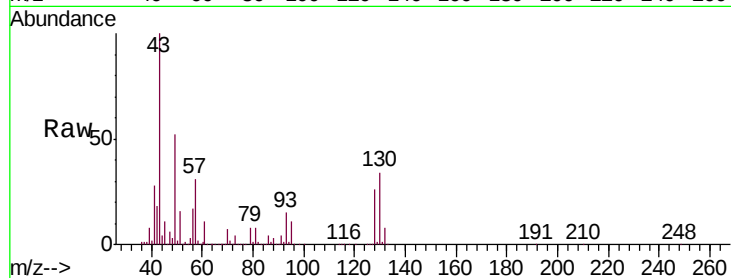
Ion Ratio Lower Upper

43 100

45 9.8 7.9 11.9

61 9.5 7.8 11.8

70 7.3 6.0 9.0

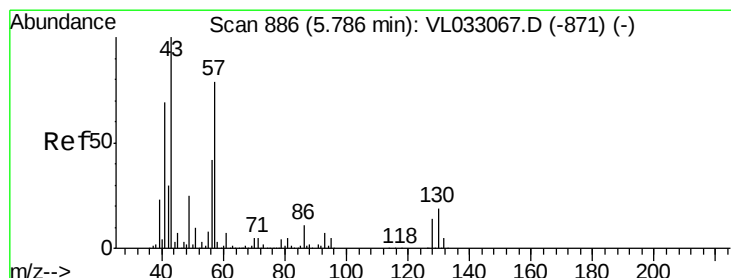
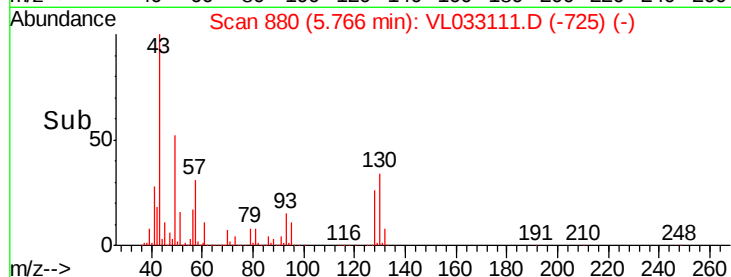
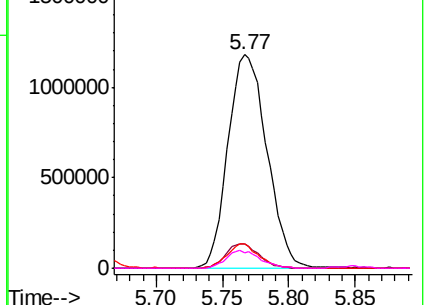


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.243 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 57 Resp: 1144276

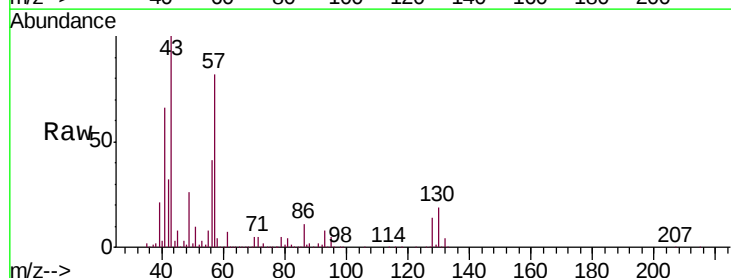
Ion Ratio Lower Upper

57 100

41 85.0 70.8 106.2

43 211.6 171.8 257.6

56 51.4 41.9 62.9

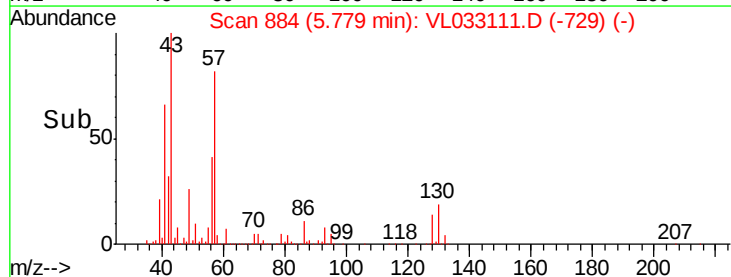
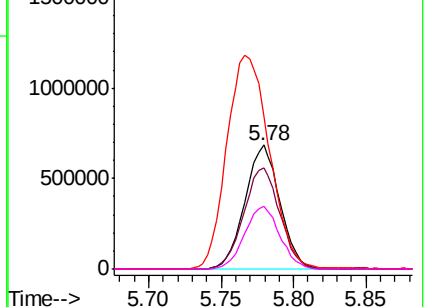


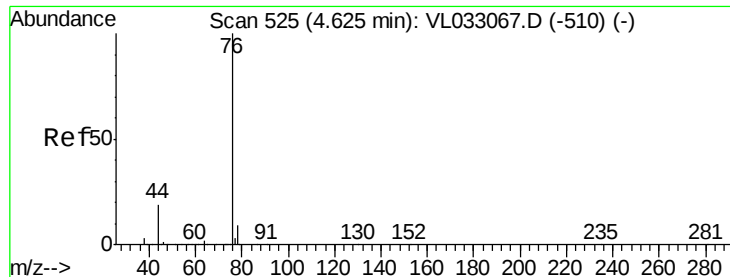
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.186 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

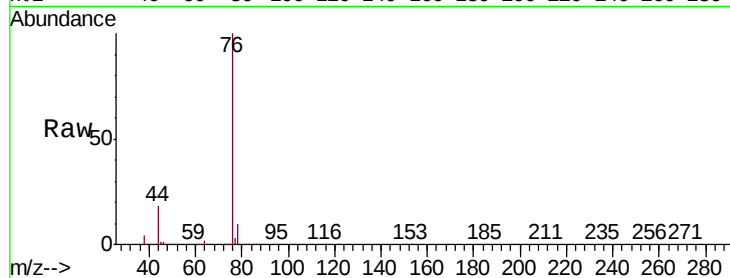
Tgt Ion: 76 Resp: 1555213

Ion Ratio Lower Upper

76 100

44 18.3 13.9 20.9

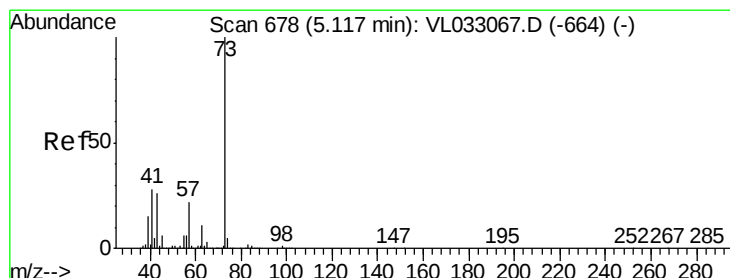
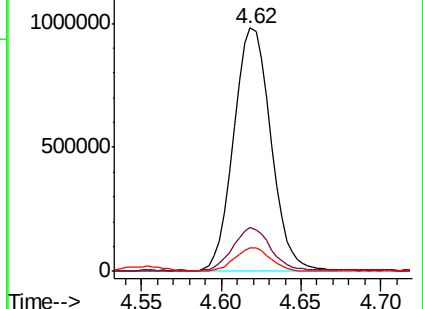
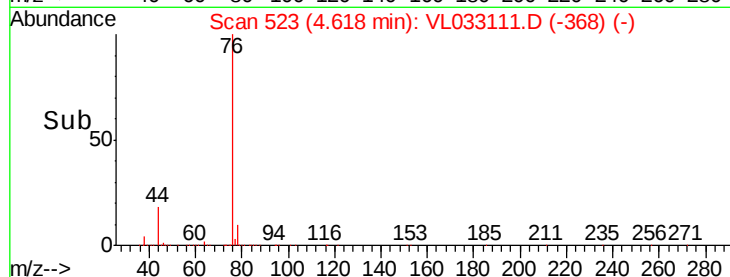
78 9.5 7.3 10.9



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: 9.915 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033111.D

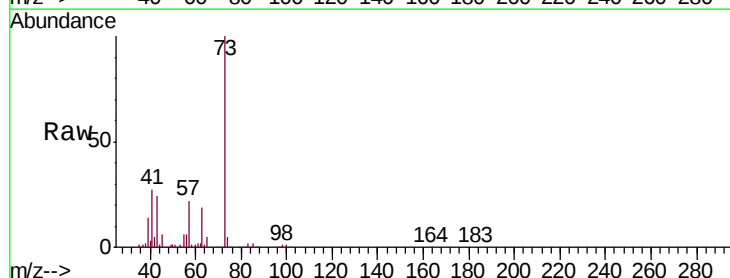
Acq: 17 Jan 2019 3:50

Tgt Ion: 73 Resp: 1915949

Ion Ratio Lower Upper

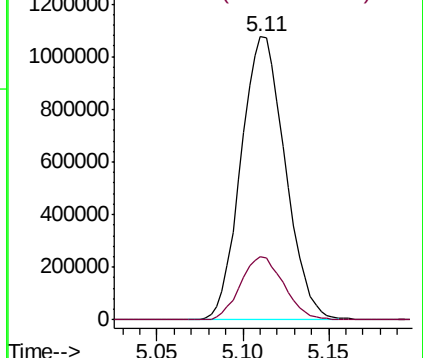
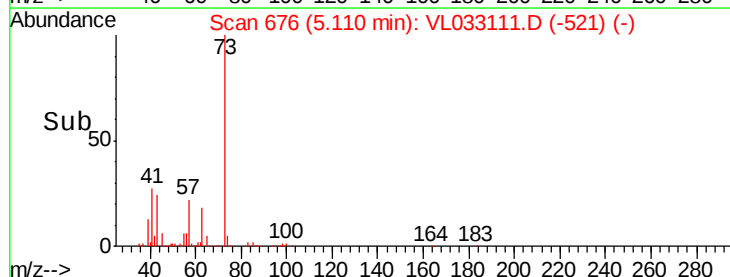
73 100

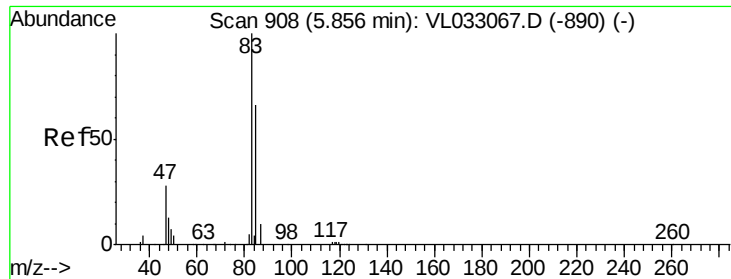
57 22.1 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 8.853 ppbv

RT: 5.85 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

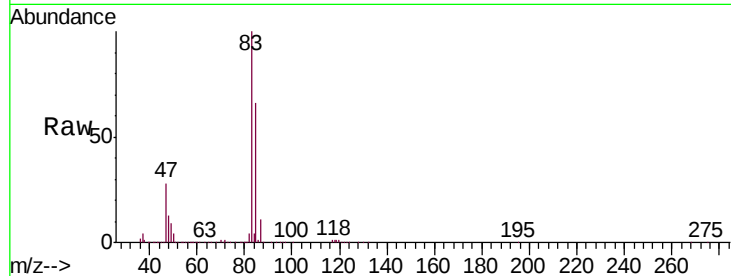
IDOC-4

Tgt Ion: 83 Resp: 1867831

Ion Ratio Lower Upper

83 100

85 65.6 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

1200000 Ion 85.00 (84.70 to 85.70): VL0

1000000

800000

600000

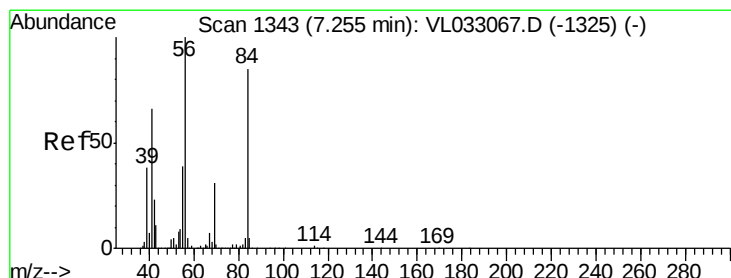
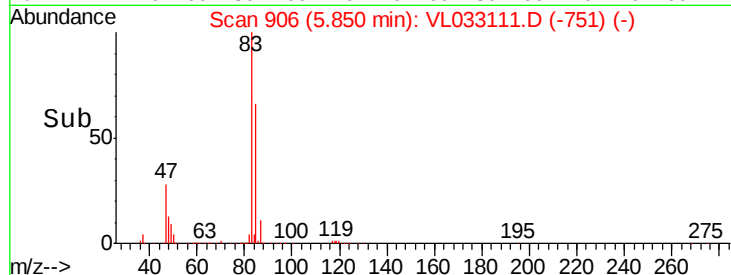
400000

200000

0

5.80 5.85 5.90

Time-->



#30

Cyclohexane

Concen: 10.616 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

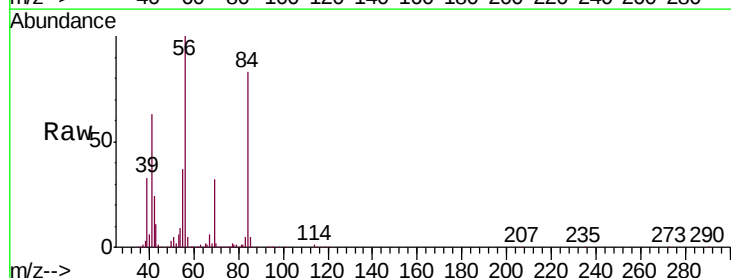
Tgt Ion: 84 Resp: 979995

Ion Ratio Lower Upper

84 100

56 126.6 101.8 152.6

41 78.1 63.2 94.8



Abundance Ion 84.20 (83.90 to 84.90): VL0

800000 Ion 56.10 (55.80 to 56.80): VL0

600000 Ion 41.10 (40.80 to 41.80): VL0

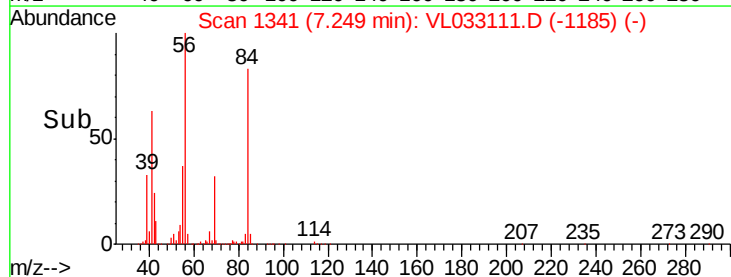
400000

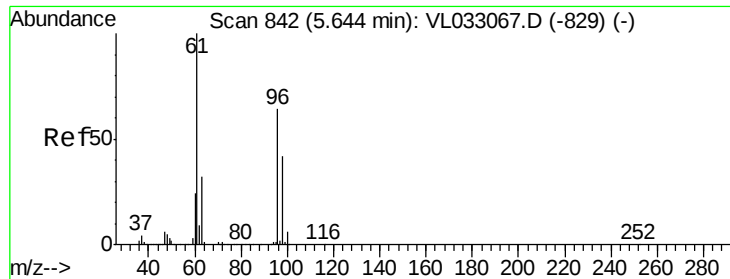
200000

0

7.15 7.20 7.25 7.30

Time-->



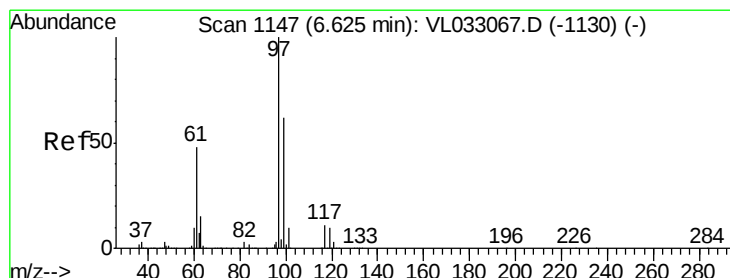
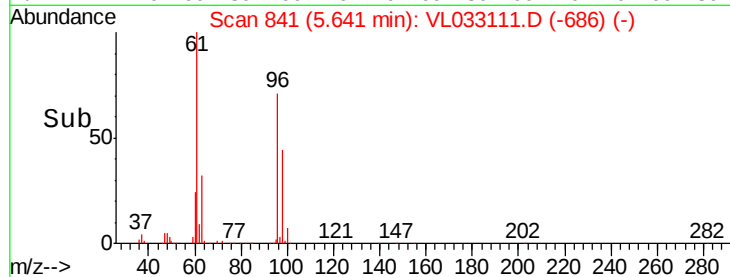
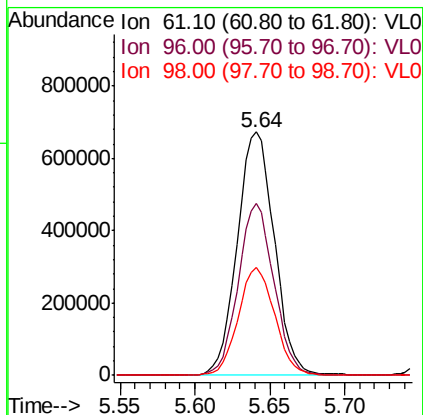
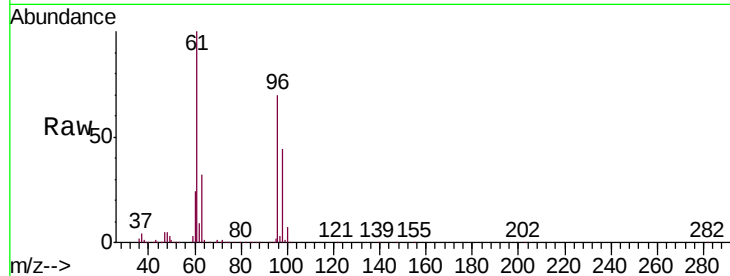


#31

cis-1,2-Dichloroethene  
 Concen: 10.109 ppbv  
 RT: 5.64 min Scan# 841  
 Delta R.T. -0.00 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

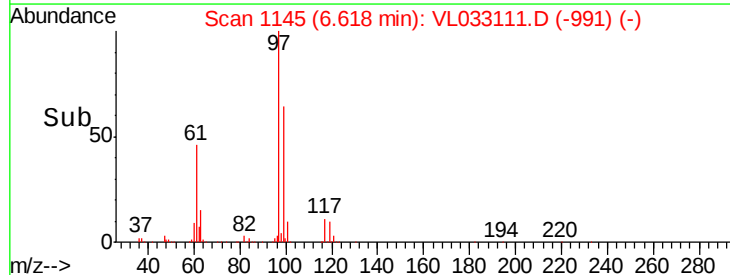
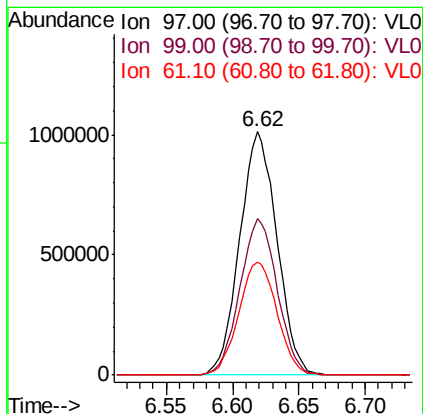
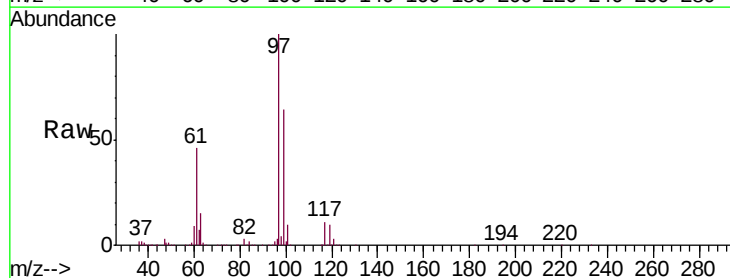
Tgt Ion: 61 Resp: 1162180  
 Ion Ratio Lower Upper  
 61 100  
 96 70.4 52.8 79.2  
 98 44.2 33.8 50.6

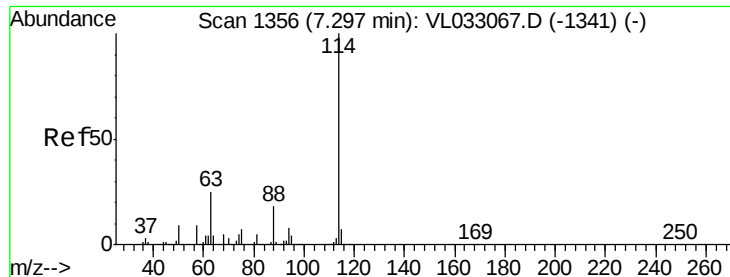


#32

1,1,1-Trichloroethane  
 Concen: 9.244 ppbv  
 RT: 6.62 min Scan# 1145  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 97 Resp: 1979431  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 51.1 76.7  
 61 47.9 38.3 57.5

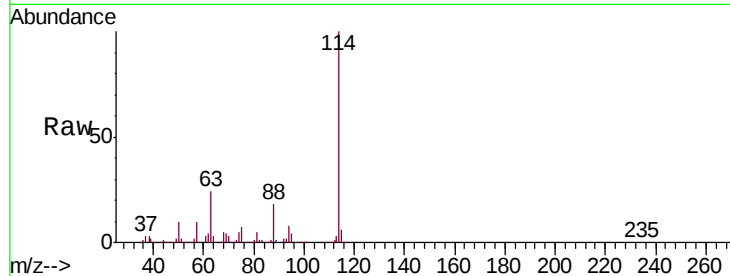




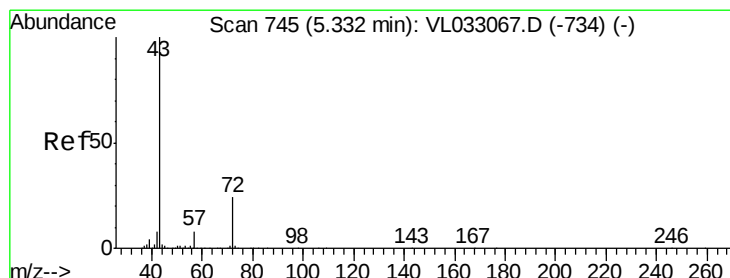
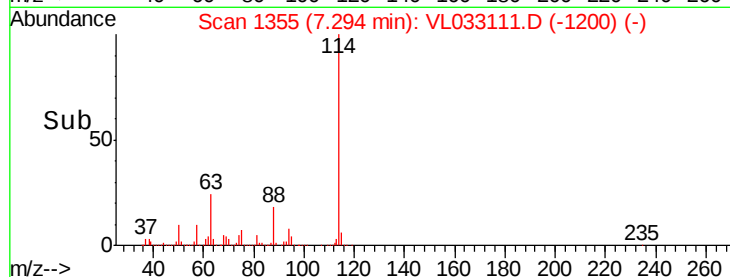
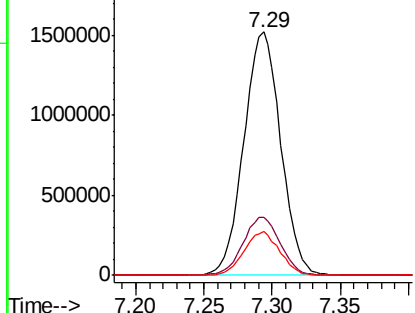
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.29 min Scan# 1355  
 Delta R.T. -0.00 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

Tgt Ion:114 Resp: 2855721  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 20.1 30.1  
 88 17.5 14.0 21.0

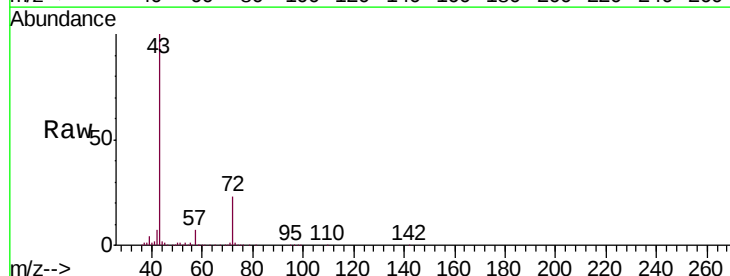


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

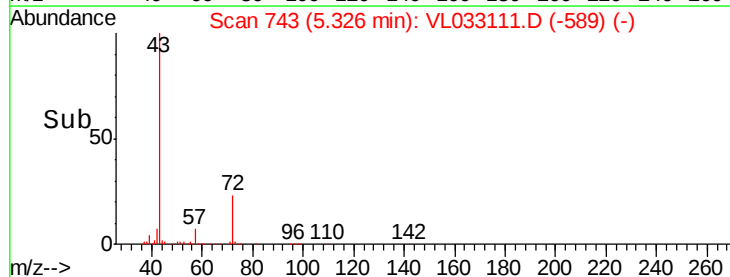
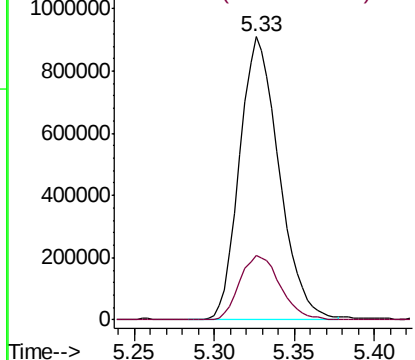


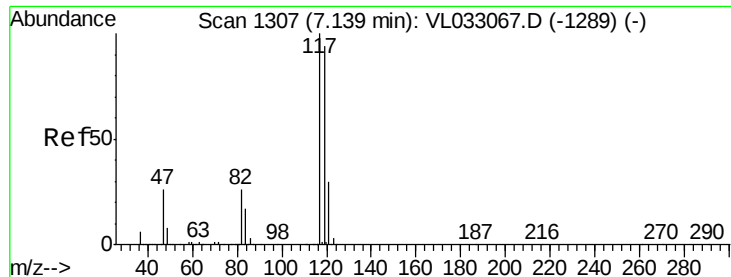
#34  
 2-Butanone  
 Concen: 9.194 ppbv  
 RT: 5.33 min Scan# 743  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 43 Resp: 1525548  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.9 28.3



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

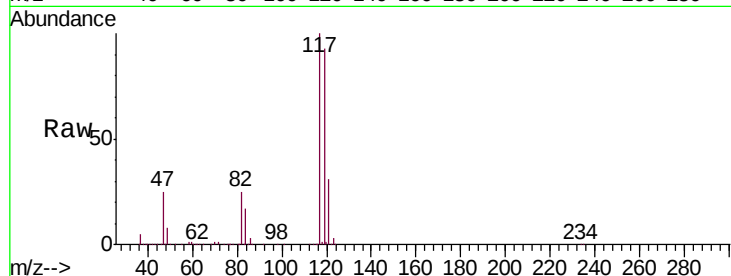




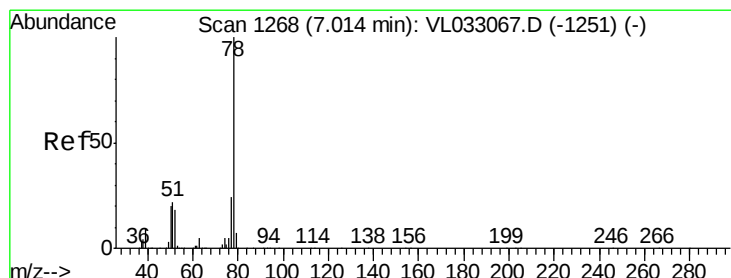
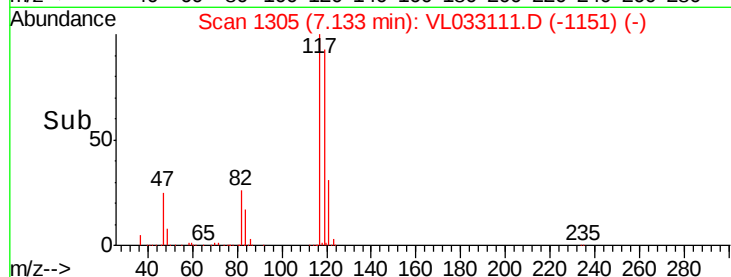
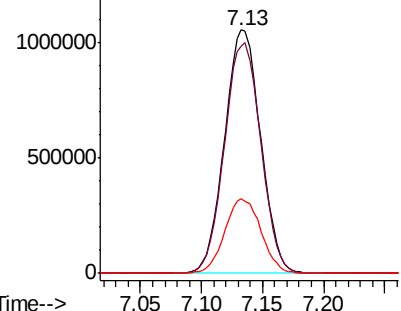
#35  
Carbon Tetrachloride  
Concen: 8.788 ppbv  
RT: 7.13 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

Tgt Ion: 117 Resp: 2155604  
Ion Ratio Lower Upper  
117 100  
119 93.4 76.5 114.7  
121 30.5 25.2 37.8

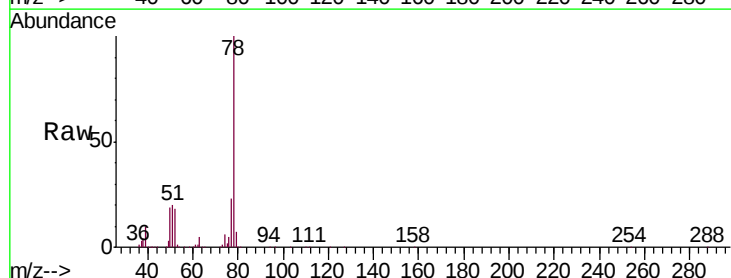


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

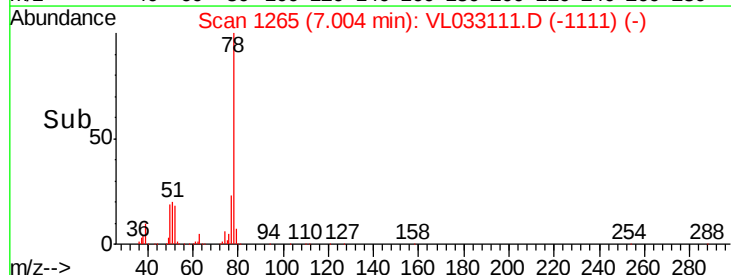
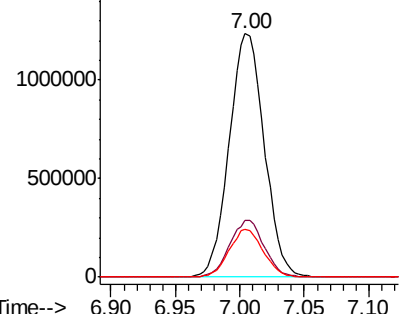


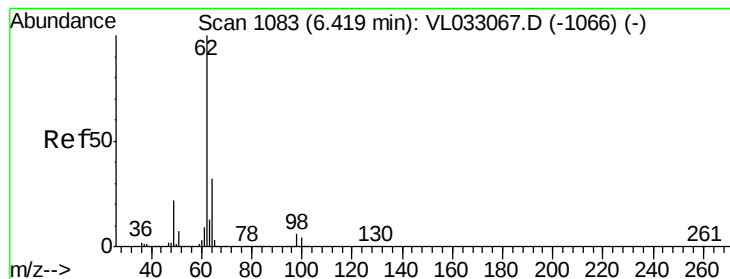
#36  
Benzene  
Concen: 10.003 ppbv  
RT: 7.00 min Scan# 1265  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 78 Resp: 2339856  
Ion Ratio Lower Upper  
78 100  
77 23.4 18.5 27.7  
50 19.5 15.7 23.5



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: 8.930 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

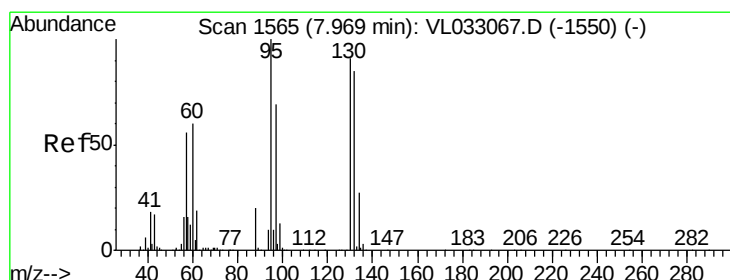
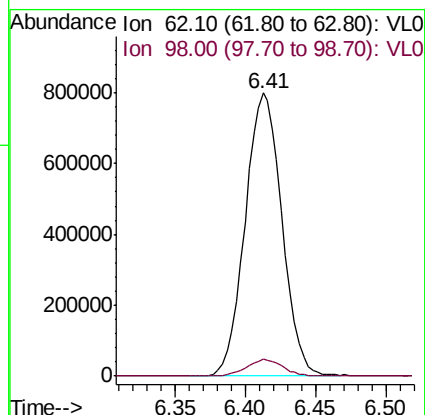
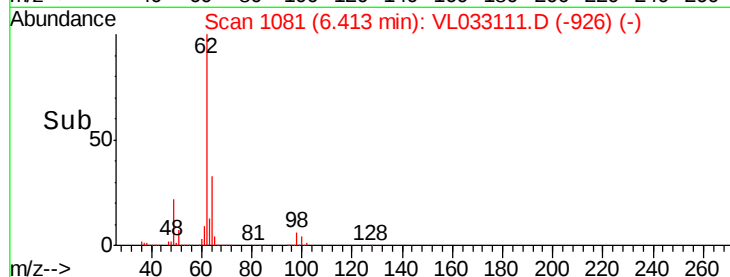
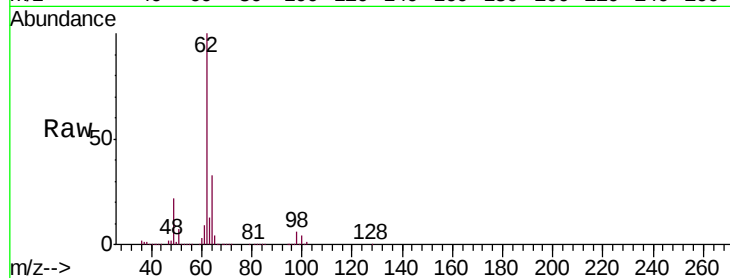
IDOC-4

Tgt Ion: 62 Resp: 1458512

Ion Ratio Lower Upper

62 100

98 5.8 4.6 7.0



#38

Trichloroethene

Concen: 10.032 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 130 Resp: 965370

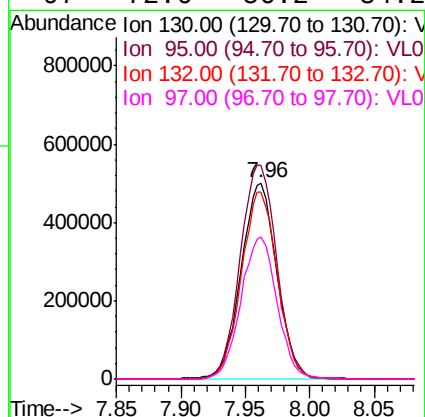
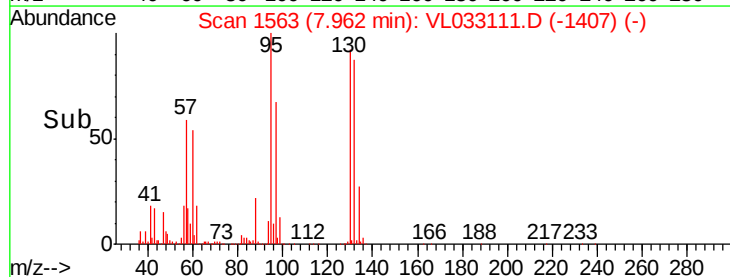
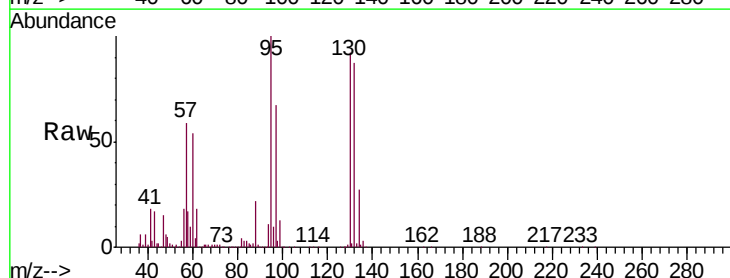
Ion Ratio Lower Upper

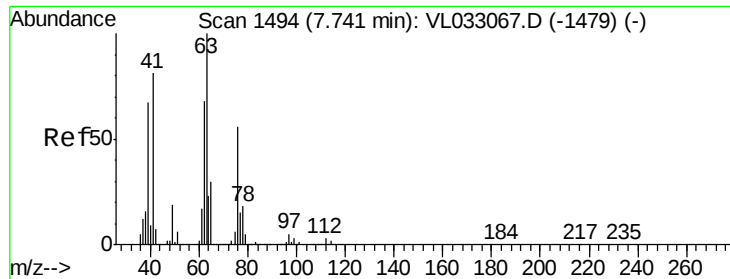
130 100

95 108.9 88.6 132.8

132 95.3 74.2 111.2

97 72.6 56.2 84.2





#39

1,2-Dichloropropane

Concen: 9.705 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

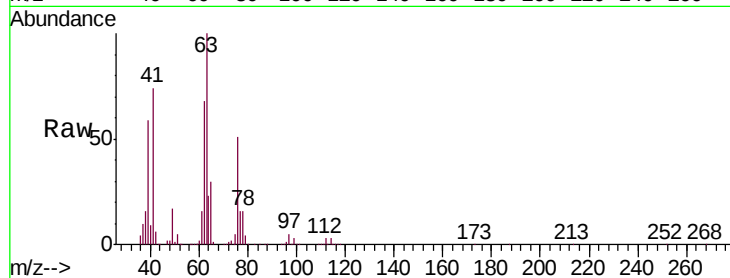
Tgt Ion: 63 Resp: 852876

Ion Ratio Lower Upper

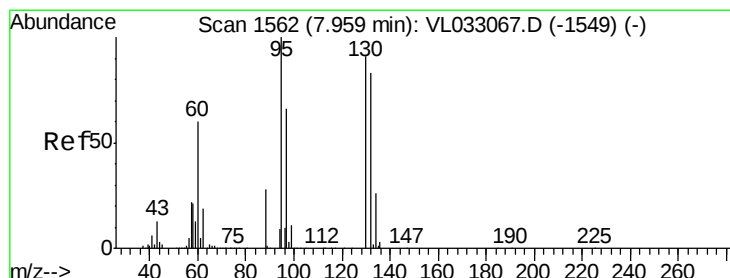
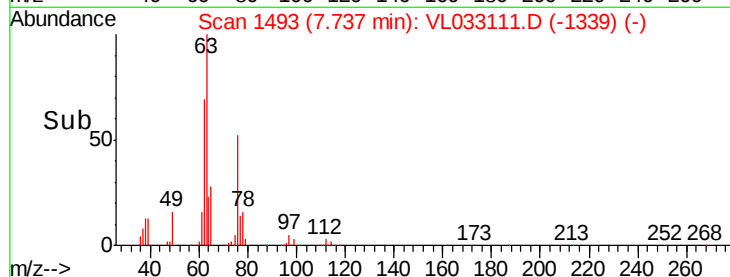
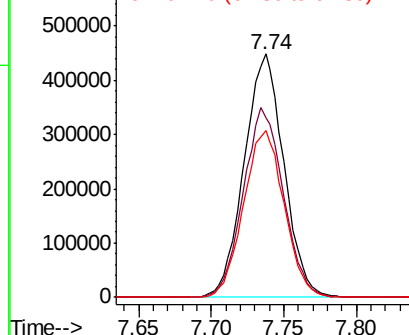
63 100

41 73.5 61.9 92.9

62 68.3 55.8 83.6



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: 9.306 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 88 Resp: 310434

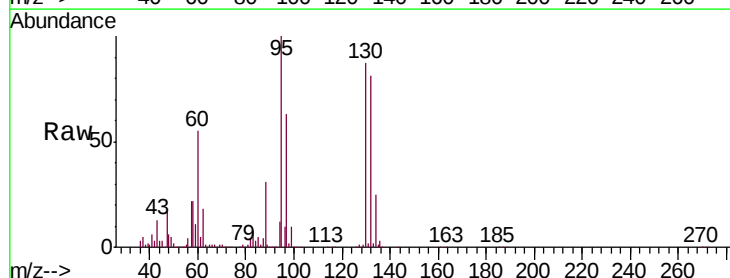
Ion Ratio Lower Upper

88 100

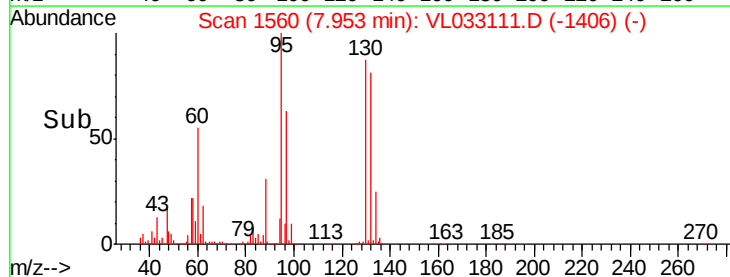
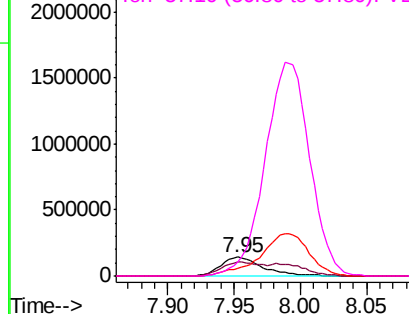
58 127.3 101.9 152.9

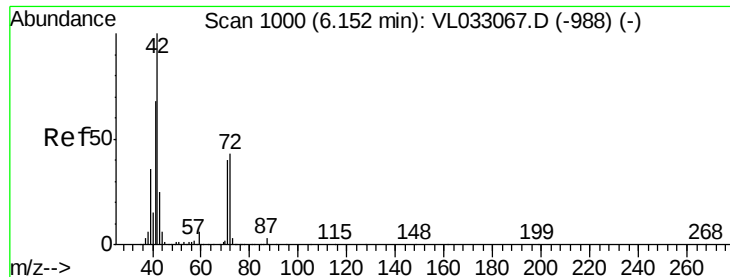
43 266.5 212.6 319.0

57 1229.9 963.8 1445.6



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: 10.379 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

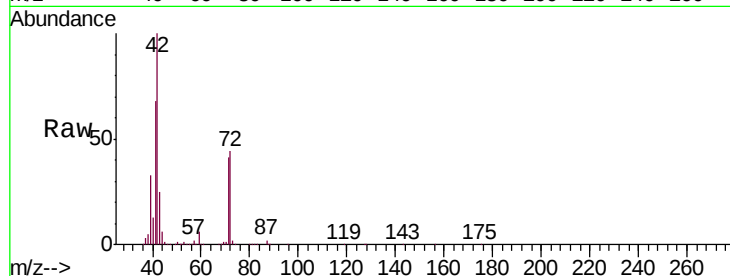
Tgt Ion: 42 Resp: 876513

Ion Ratio Lower Upper

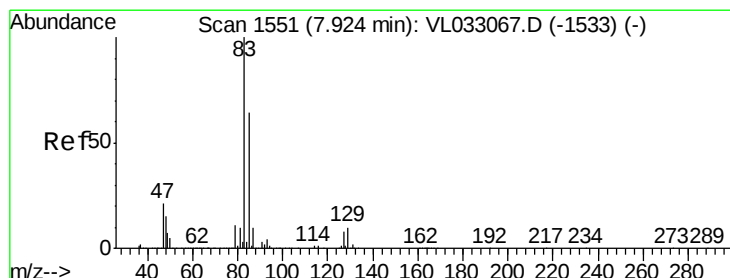
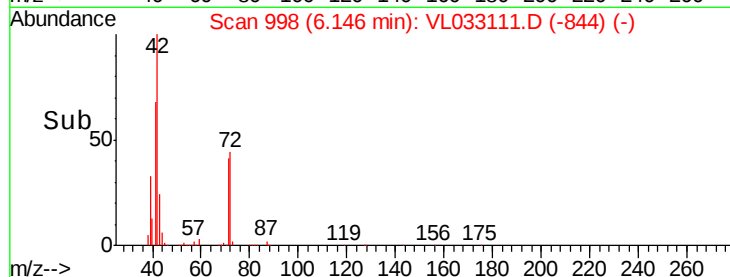
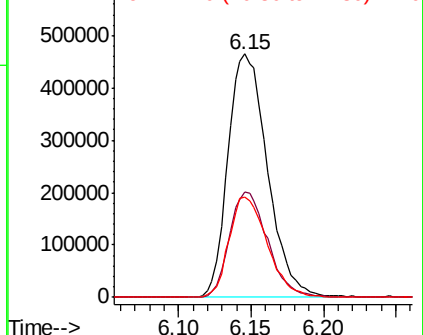
42 100

72 42.1 32.9 49.3

71 40.2 31.8 47.6



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



#42

Bromodichloromethane

Concen: 8.970 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

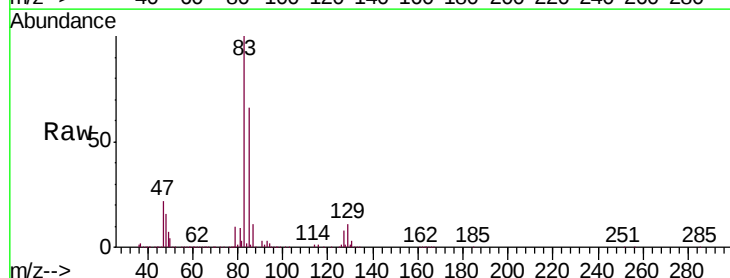
Tgt Ion: 83 Resp: 2012568

Ion Ratio Lower Upper

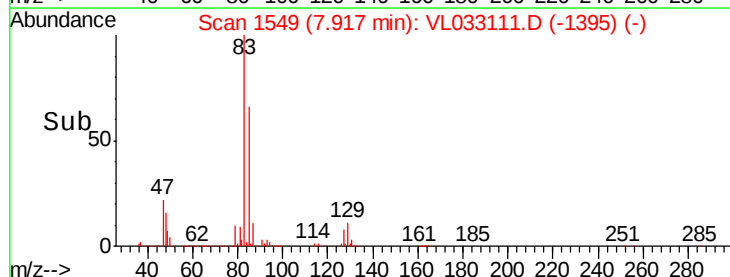
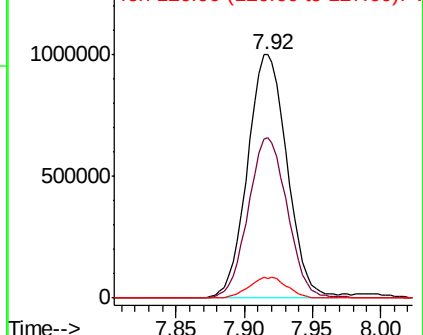
83 100

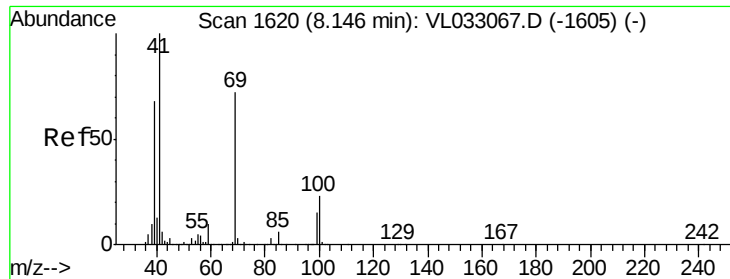
85 65.8 51.0 76.4

127 8.3 6.5 9.7



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

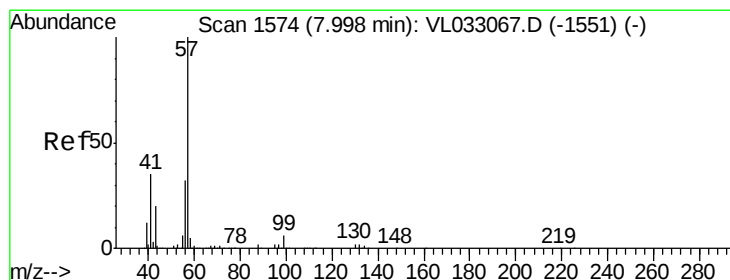
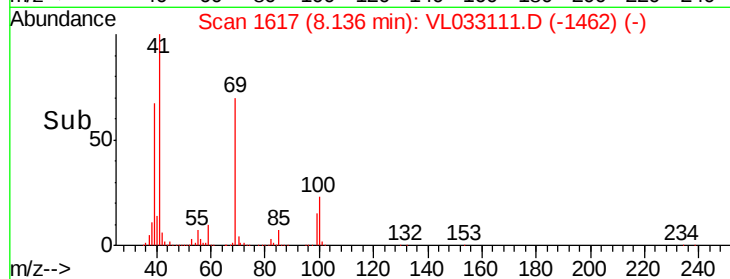
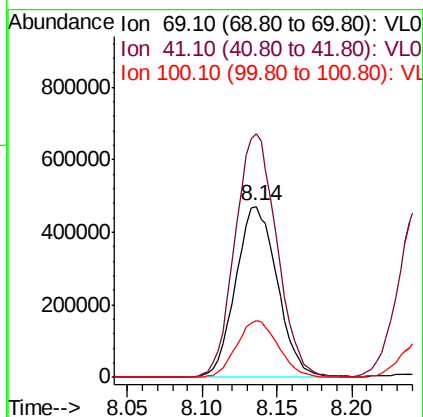
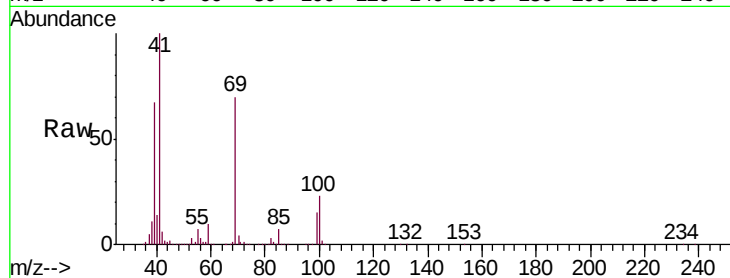




#43  
Methyl Methacrylate  
Concen: 10.373 ppbv  
RT: 8.14 min Scan# 1617  
Delta R.T. -0.00 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

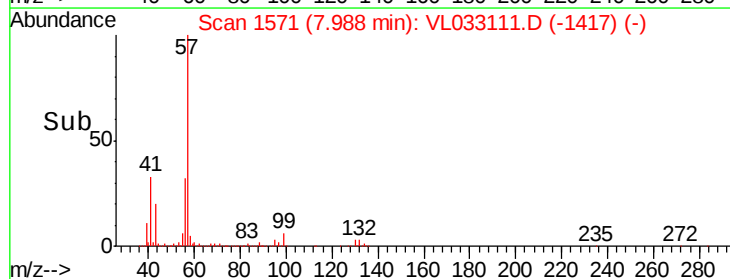
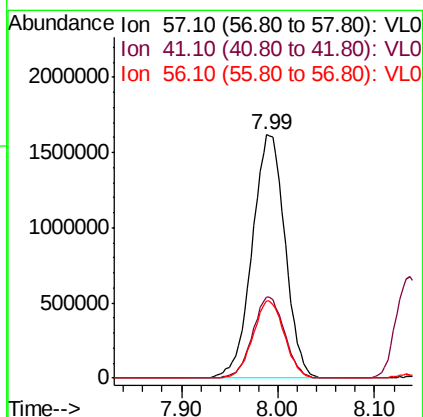
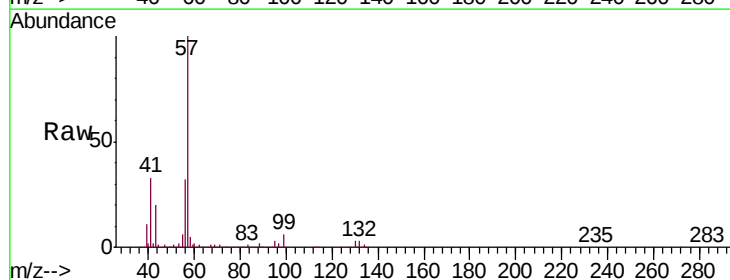
Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

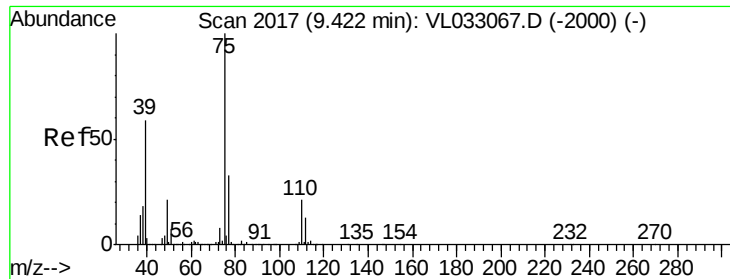
Tgt Ion: 69 Resp: 910520  
Ion Ratio Lower Upper  
69 100  
41 143.2 114.0 171.0  
100 33.3 26.3 39.5



#44  
2,2,4-Trimethylpentane  
Concen: 9.629 ppbv  
RT: 7.99 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 57 Resp: 3814482  
Ion Ratio Lower Upper  
57 100  
41 32.5 26.2 39.2  
56 30.5 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 11.199 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

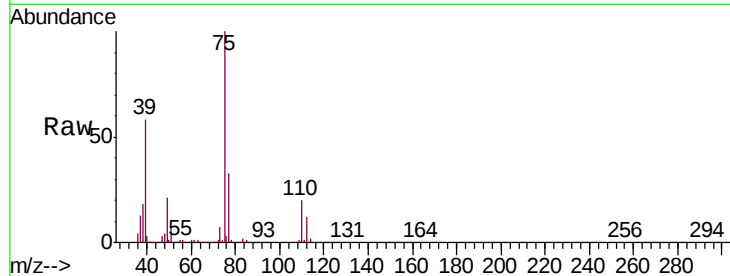
IDOC-4

Tgt Ion: 75 Resp: 1223605

Ion Ratio Lower Upper

75 100

77 32.8 24.8 37.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

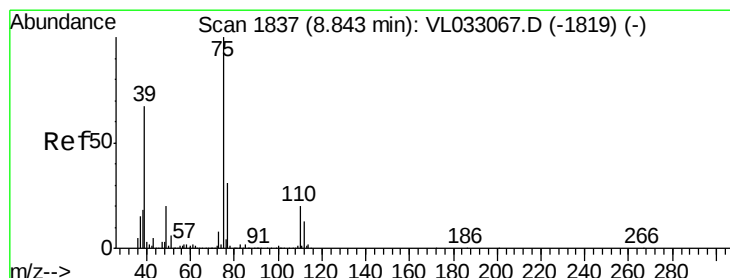
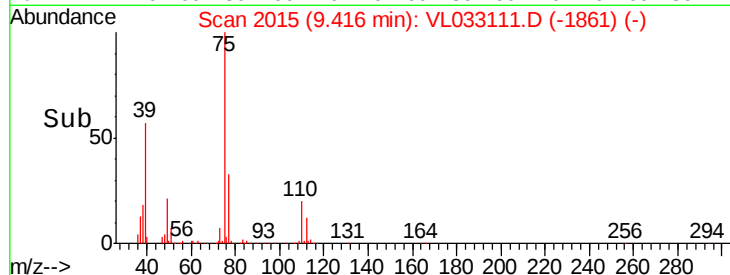
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.480 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

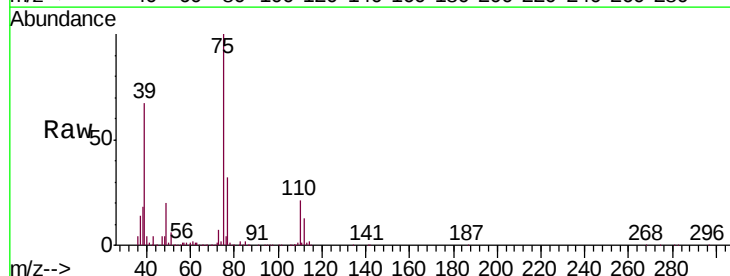
Tgt Ion: 75 Resp: 1431644

Ion Ratio Lower Upper

75 100

39 66.8 51.3 76.9

77 31.7 25.5 38.3



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

1000000

800000

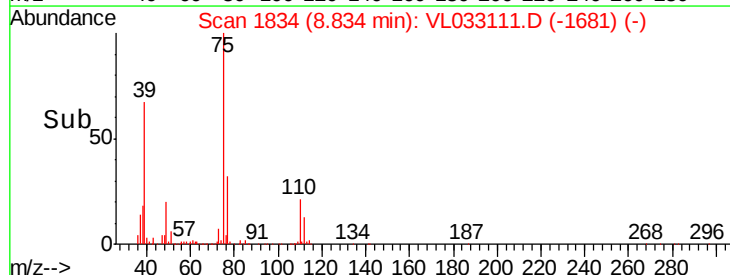
600000

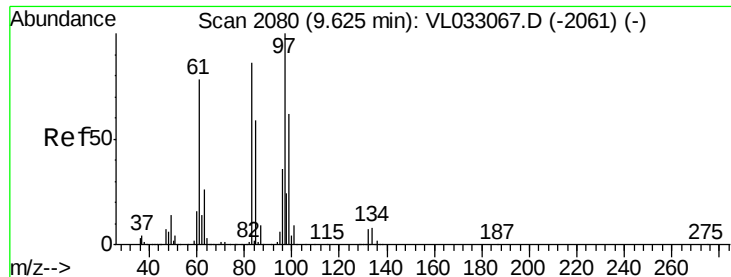
400000

200000

0

Time-->

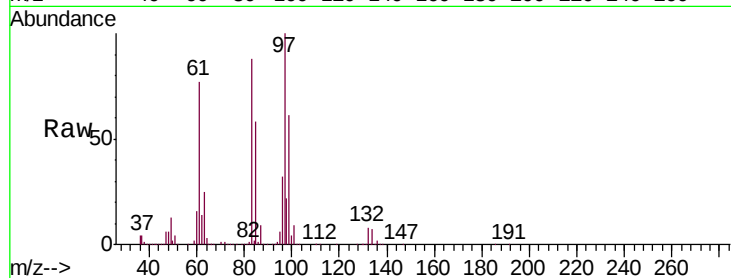




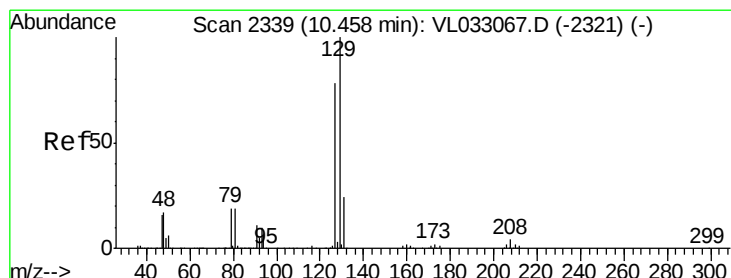
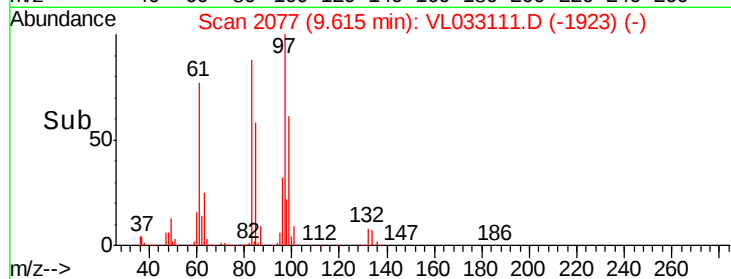
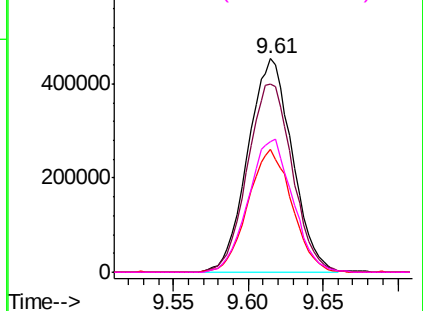
#47  
 1,1,2-Trichloroethane  
 Concen: 9.110 ppbv  
 RT: 9.61 min Scan# 2077  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

Tgt Ion: 97 Resp: 935322  
 Ion Ratio Lower Upper  
 97 100  
 83 88.3 69.4 104.2  
 85 57.6 44.2 66.2  
 99 61.4 48.9 73.3

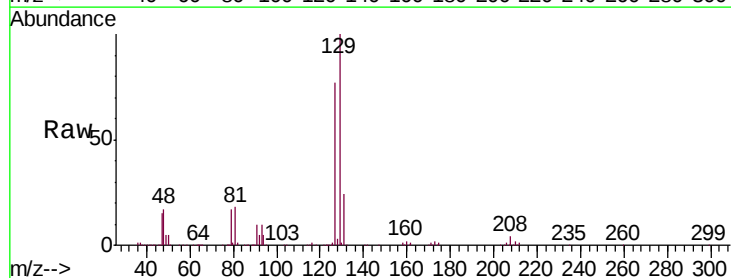


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

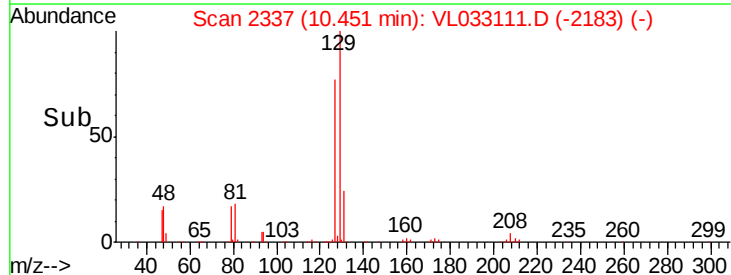
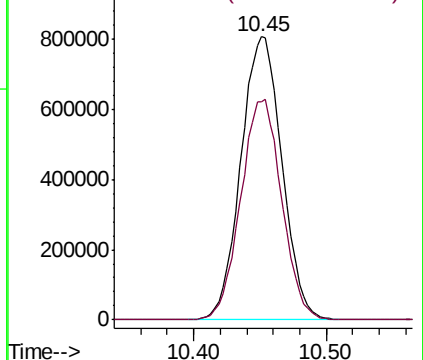


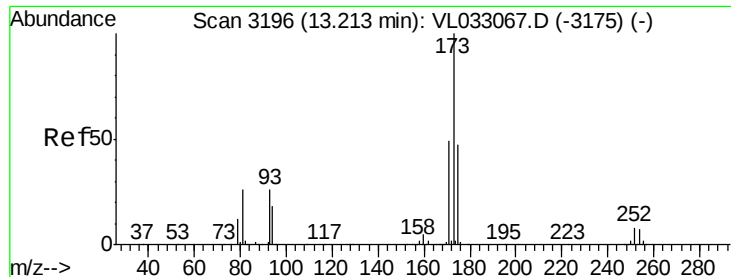
#48  
 Dibromochloromethane  
 Concen: 9.552 ppbv  
 RT: 10.45 min Scan# 2337  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 129 Resp: 1732778  
 Ion Ratio Lower Upper  
 129 100  
 127 77.9 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.692 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

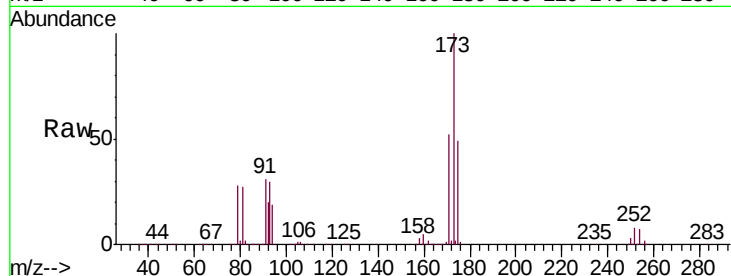
Tgt Ion:173 Resp: 1377644

Ion Ratio Lower Upper

173 100

175 48.5 39.4 59.2

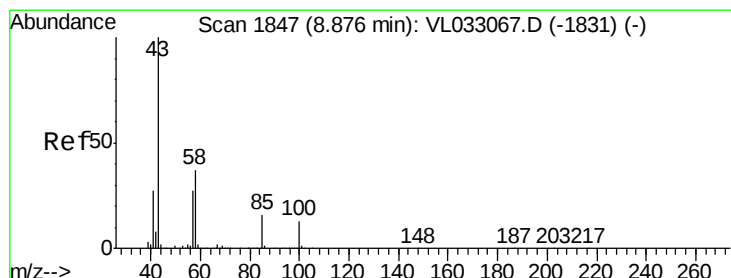
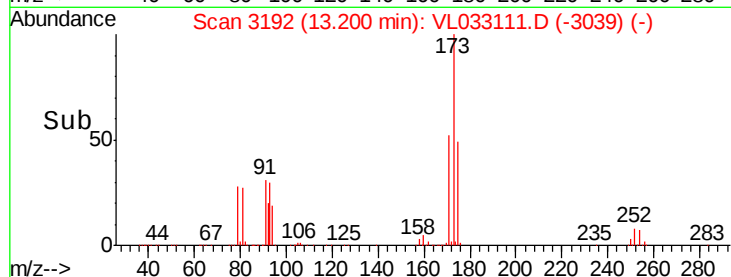
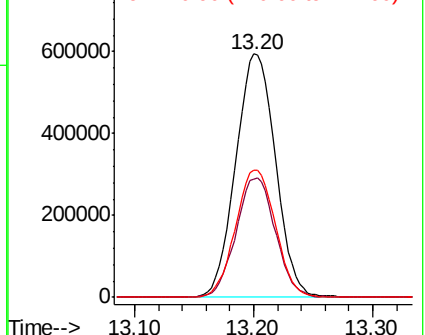
171 52.5 42.1 63.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.228 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL033111.D

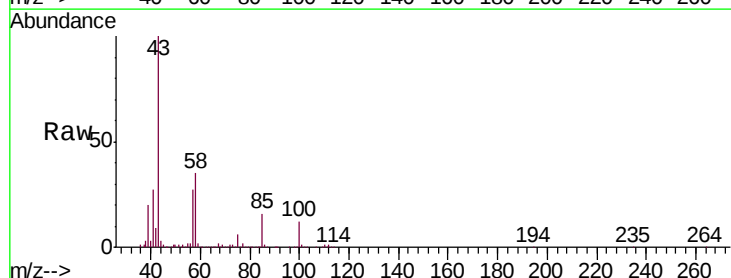
Acq: 17 Jan 2019 3:50

Tgt Ion: 43 Resp: 2150372

Ion Ratio Lower Upper

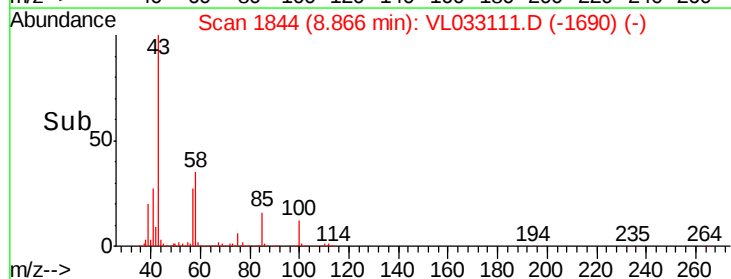
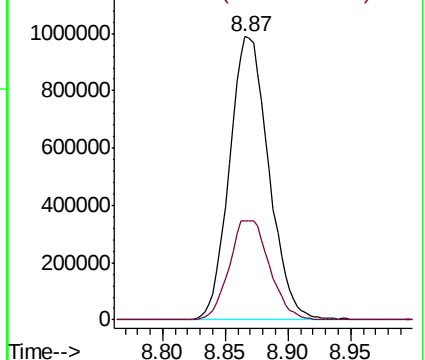
43 100

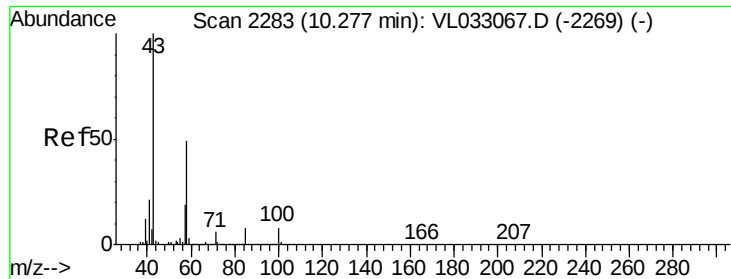
58 36.2 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

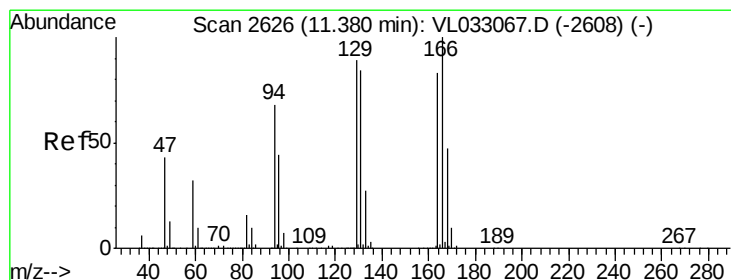
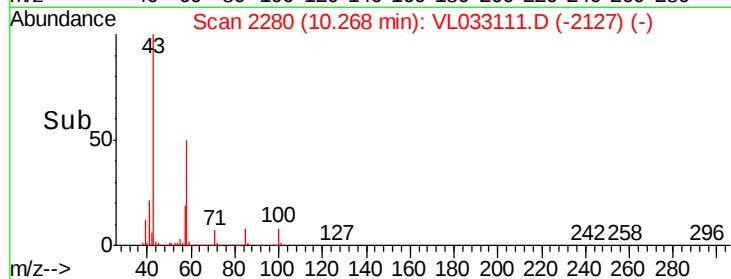
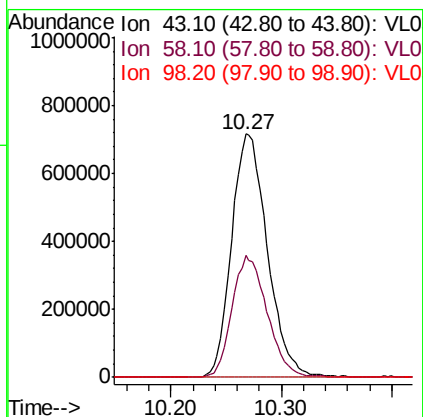
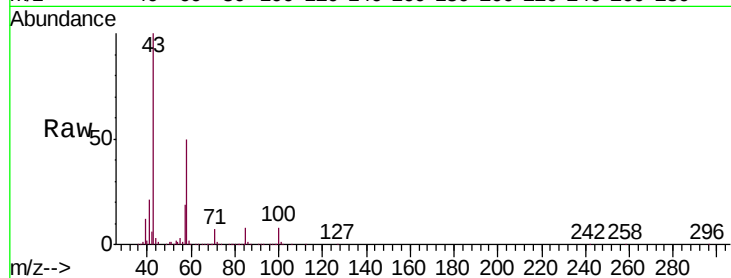




#51  
2-Hexanone  
Concen: 10.593 ppbv  
RT: 10.27 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

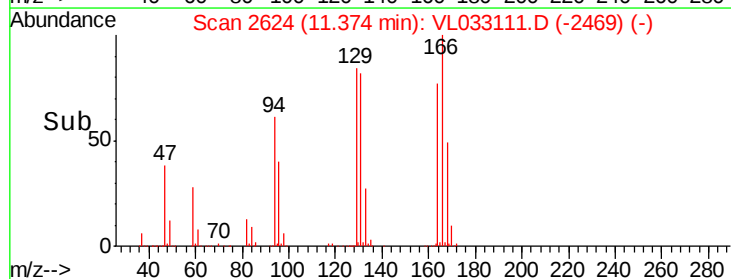
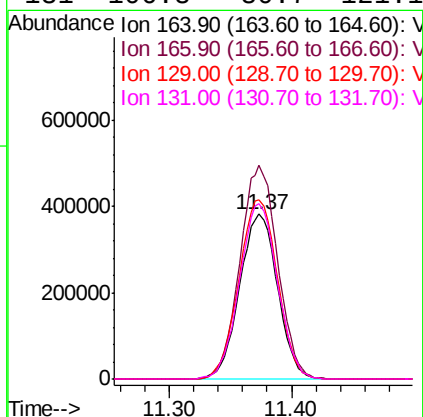
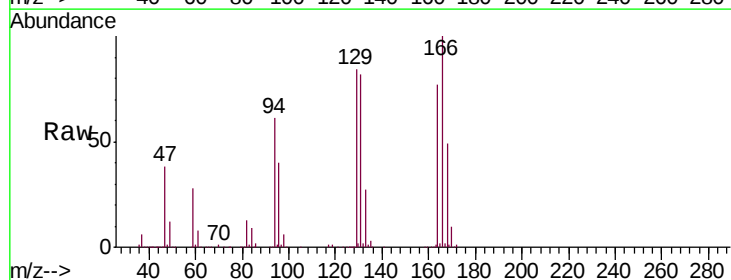
Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

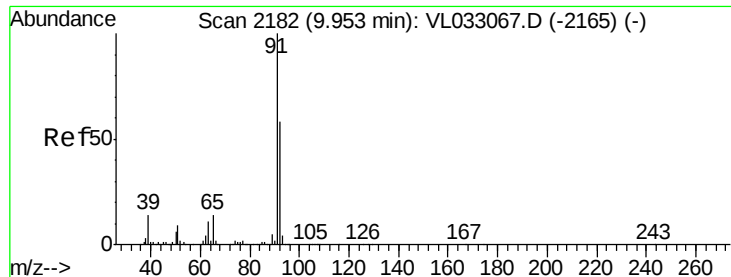
Tgt Ion: 43 Resp: 1611504  
Ion Ratio Lower Upper  
43 100  
58 49.2 39.0 58.6  
98 0.3 0.4 0.6#



#52  
Tetrachloroethene  
Concen: 9.879 ppbv  
RT: 11.37 min Scan# 2624  
Delta R.T. -0.00 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 164 Resp: 816833  
Ion Ratio Lower Upper  
164 100  
166 129.7 100.8 151.2  
129 108.7 84.6 126.8  
131 106.8 80.7 121.1





#53

Toluene

Concen: 10.633 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

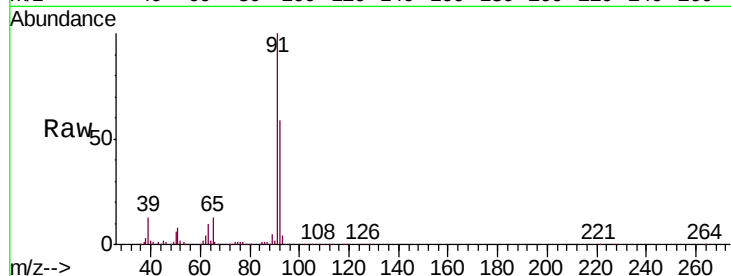
IDOC-4

Tgt Ion: 91 Resp: 2665601

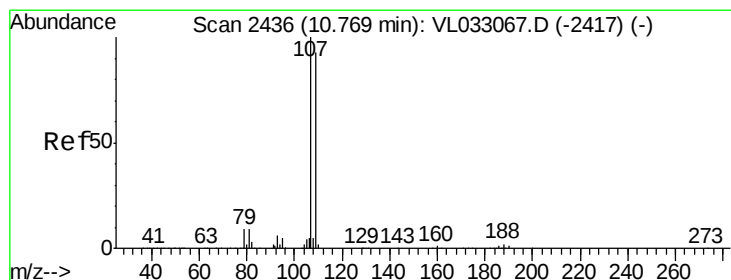
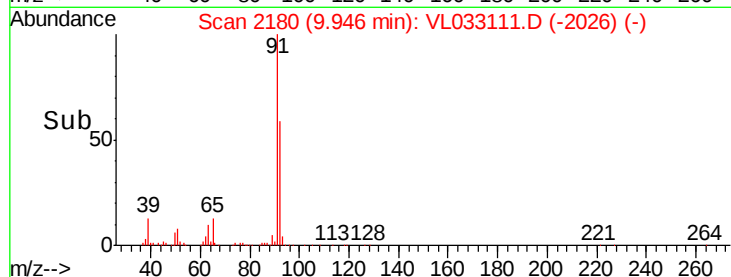
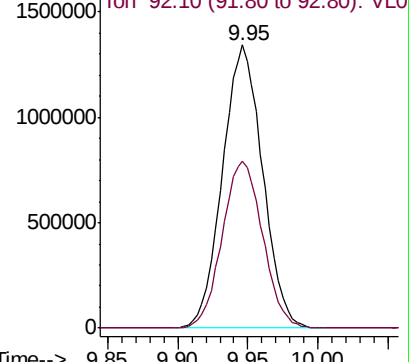
Ion Ratio Lower Upper

91 100

92 60.0 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 9.803 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033111.D

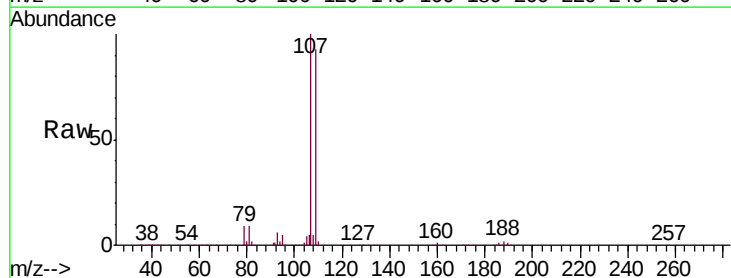
Acq: 17 Jan 2019 3:50

Tgt Ion: 107 Resp: 1450124

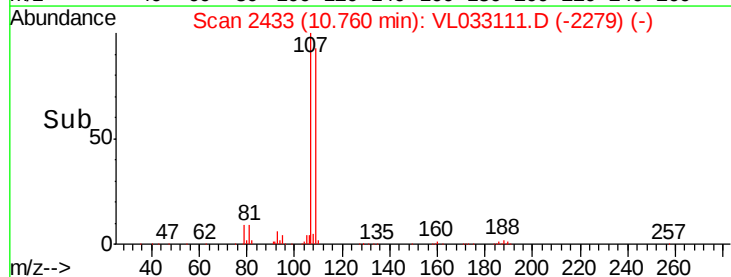
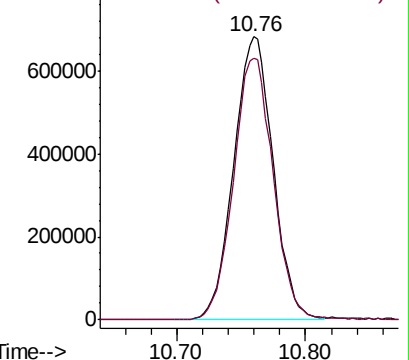
Ion Ratio Lower Upper

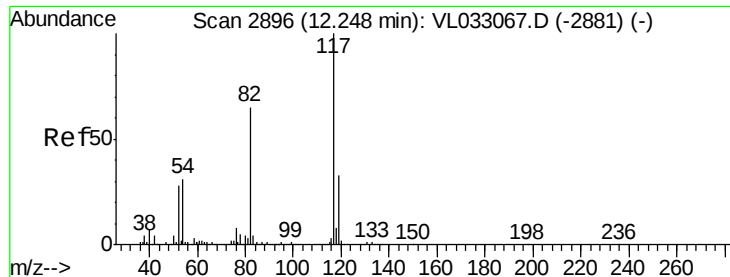
107 100

109 92.6 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

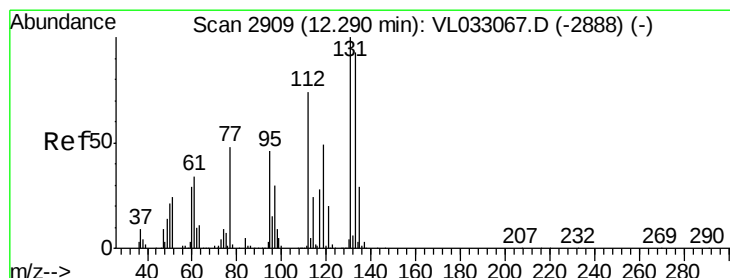
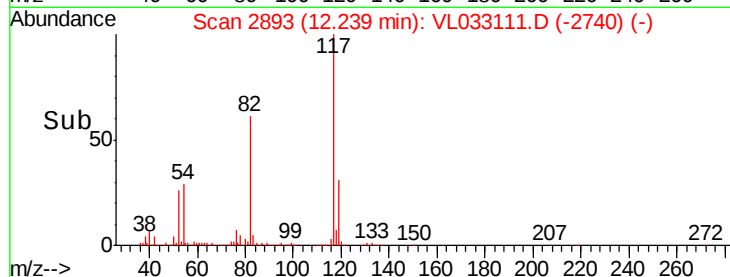
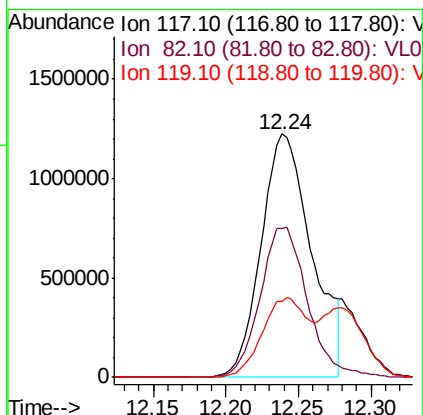
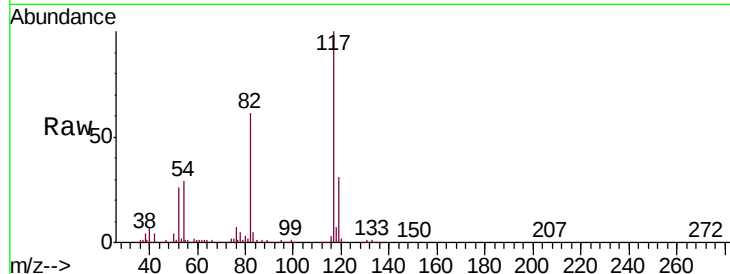




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.24 min Scan# 2893  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

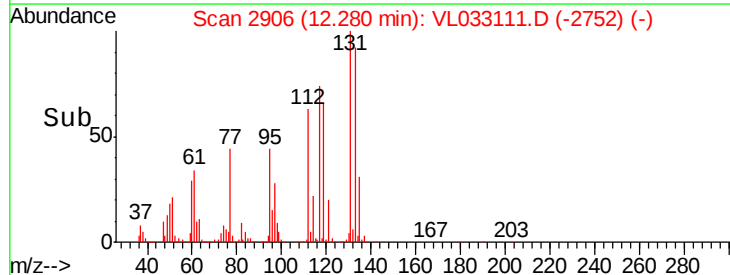
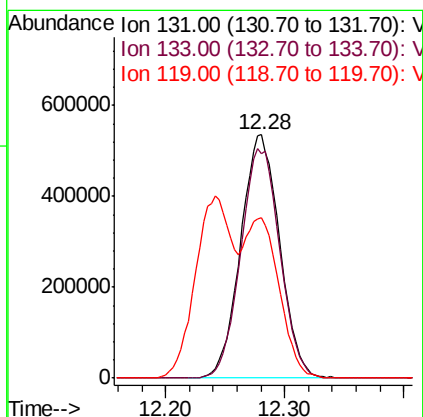
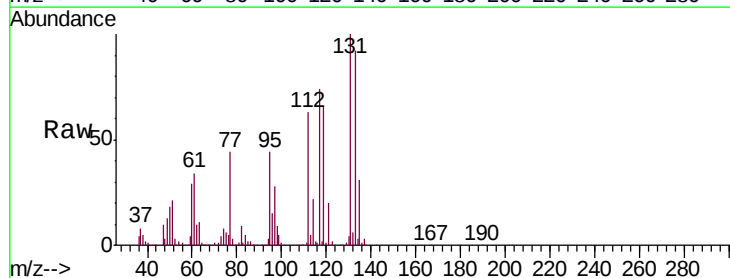
Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

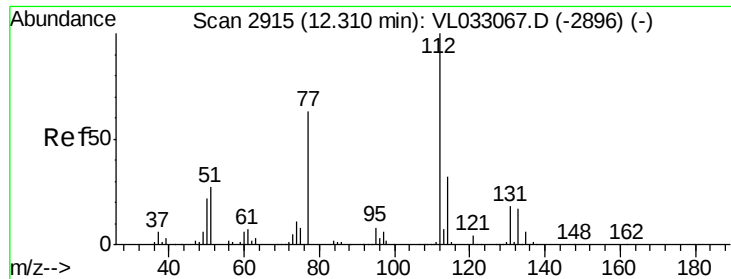
Tgt Ion:117 Resp: 2972242  
Ion Ratio Lower Upper  
117 100  
82 57.9 48.9 73.3  
119 31.5 24.6 37.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.889 ppbv  
RT: 12.28 min Scan# 2906  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion:131 Resp: 1211596  
Ion Ratio Lower Upper  
131 100  
133 94.9 76.0 114.0  
119 59.5 44.2 66.2

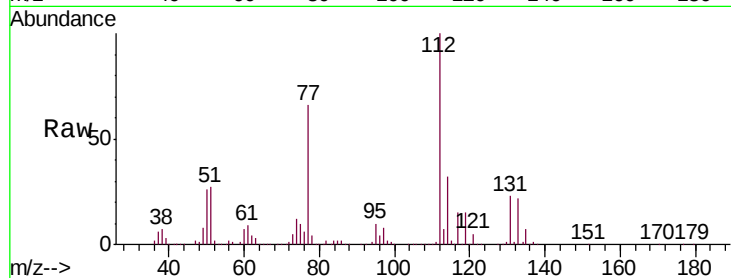




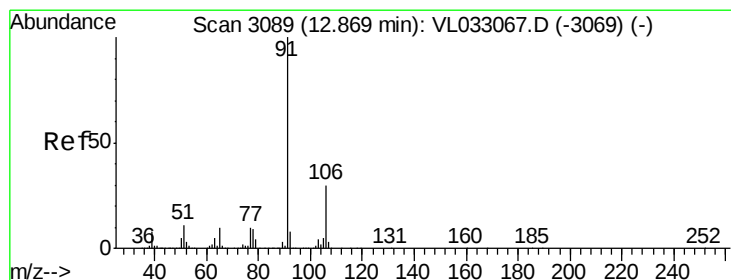
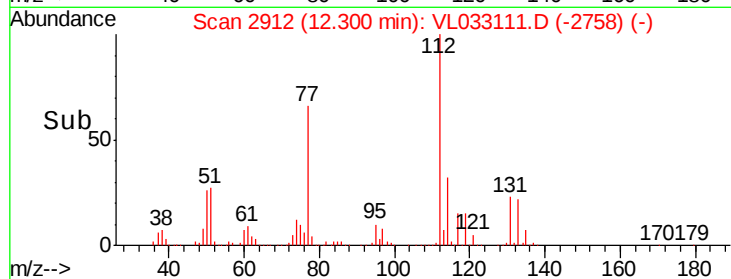
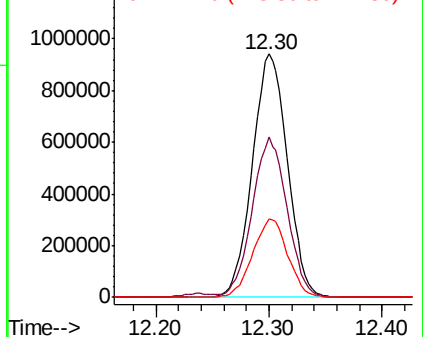
#57  
Chlorobenzene  
Concen: 8.160 ppbv  
RT: 12.30 min Scan# 2912  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

Tgt Ion: 112 Resp: 2024318  
Ion Ratio Lower Upper  
112 100  
77 65.9 53.4 80.0  
114 32.0 30.0 36.6

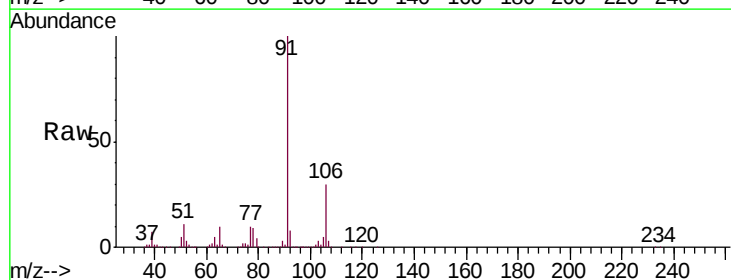


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

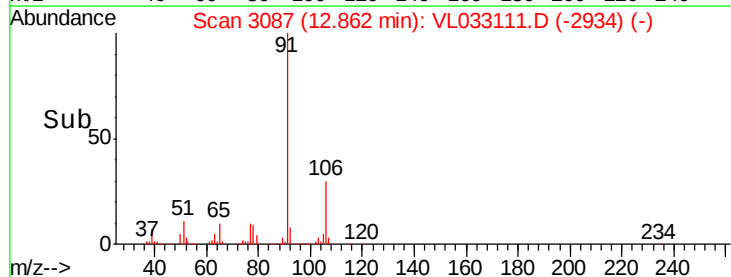
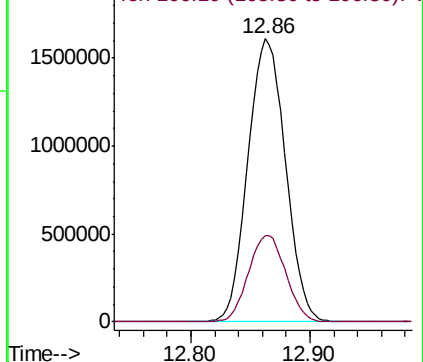


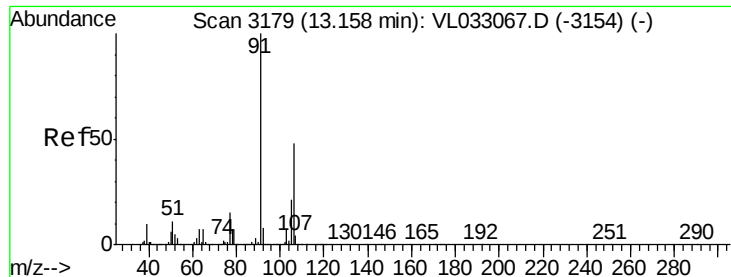
#58  
Ethyl Benzene  
Concen: 9.407 ppbv  
RT: 12.86 min Scan# 3087  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 3530021  
Ion Ratio Lower Upper  
91 100  
106 30.5 24.3 36.5



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

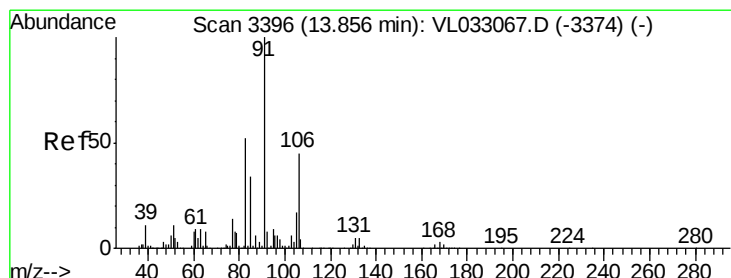
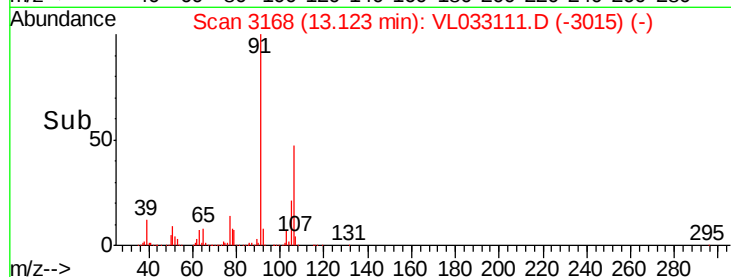
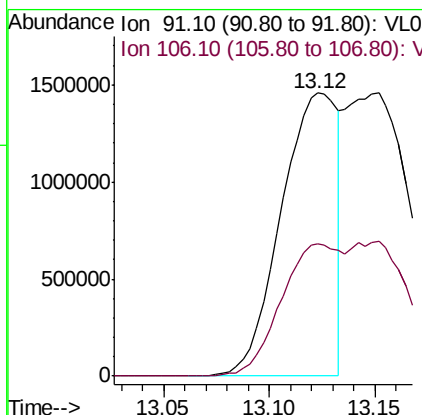
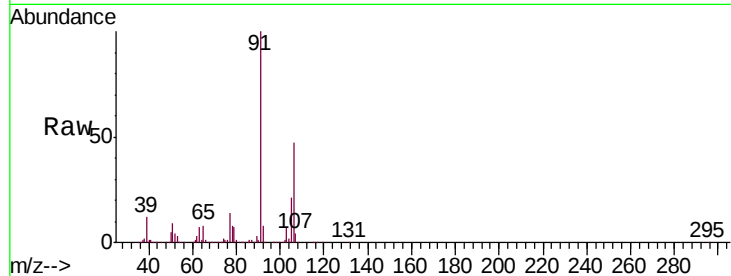




#59  
m/p-Xylene  
Concen: 7.747 ppbv  
RT: 13.12 min Scan# 3168  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

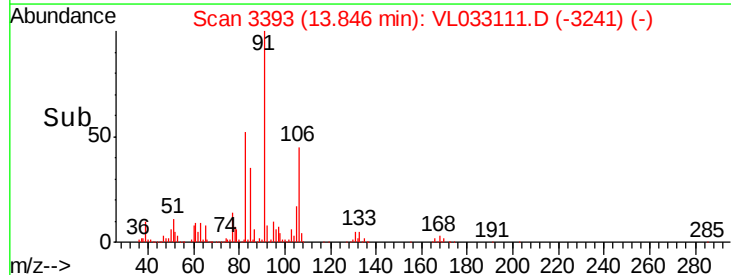
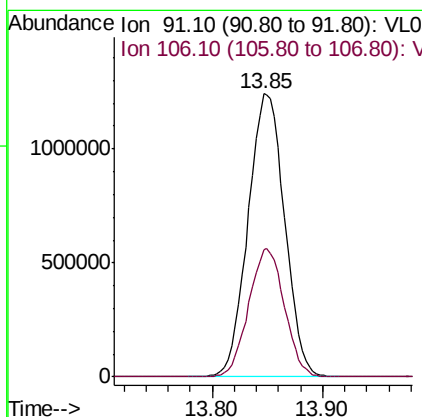
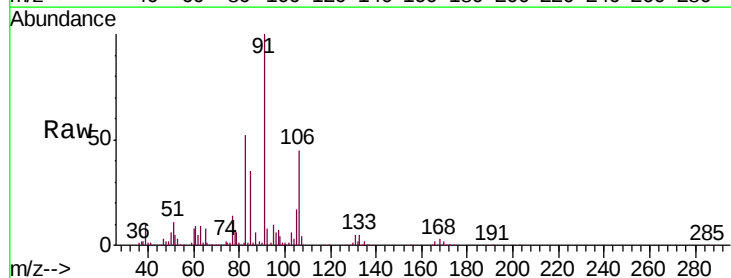
Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

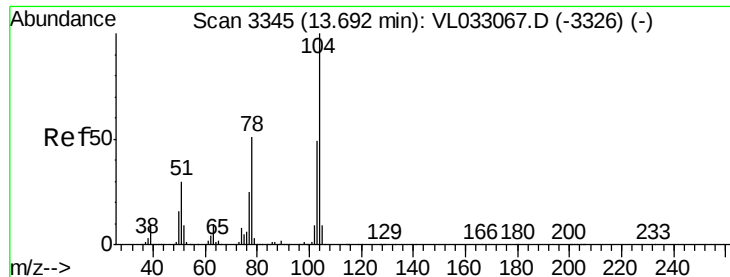
Tgt Ion: 91 Resp: 2689462  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0



#60  
o-Xylene  
Concen: 8.386 ppbv  
RT: 13.85 min Scan# 3393  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 2849962  
Ion Ratio Lower Upper  
91 100  
106 44.3 22.1 66.5





#61

Styrene

Concen: 9.762 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

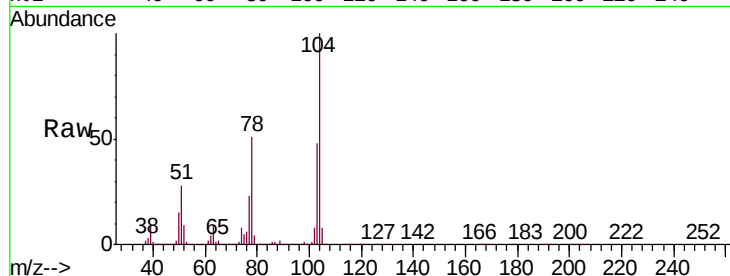
Tgt Ion:104 Resp: 2116874

Ion Ratio Lower Upper

104 100

78 52.0 41.6 62.4

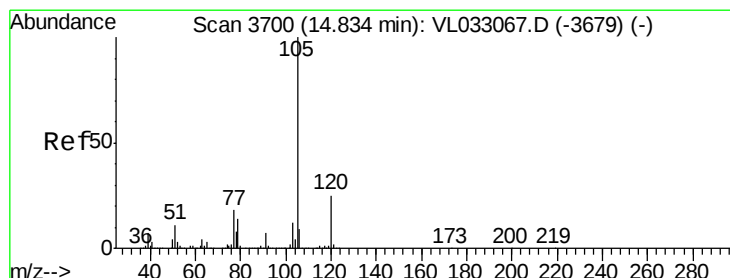
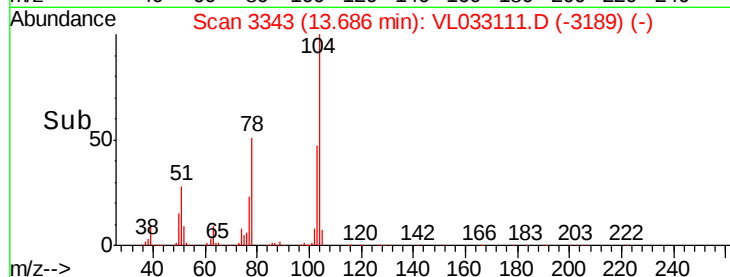
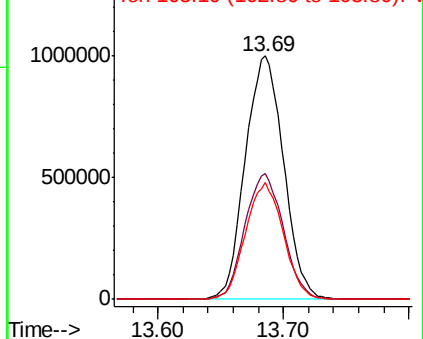
103 47.3 38.1 57.1



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: 8.316 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.01 min

Lab File: VL033111.D

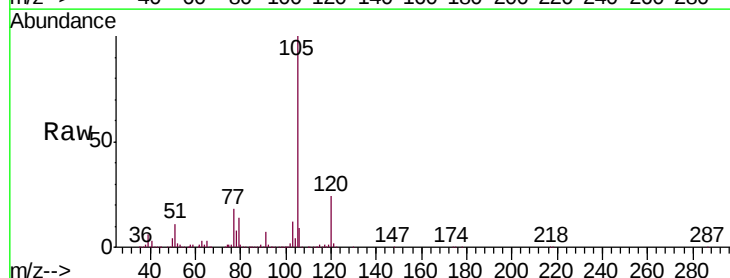
Acq: 17 Jan 2019 3:50

Tgt Ion:105 Resp: 4022140

Ion Ratio Lower Upper

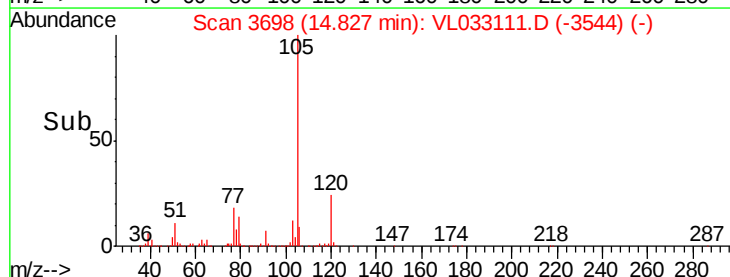
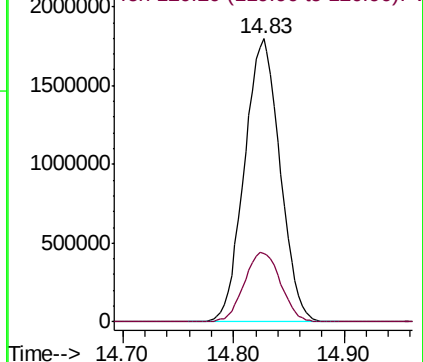
105 100

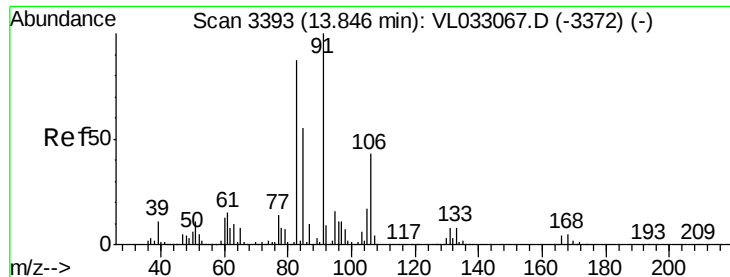
120 25.1 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

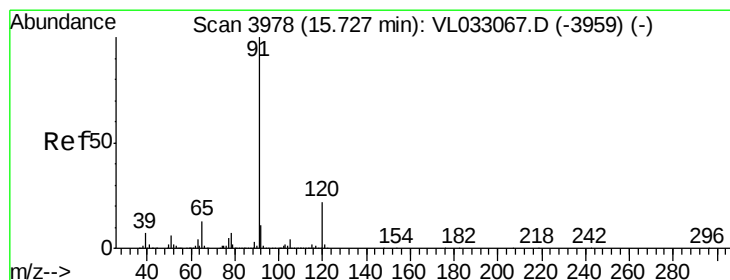
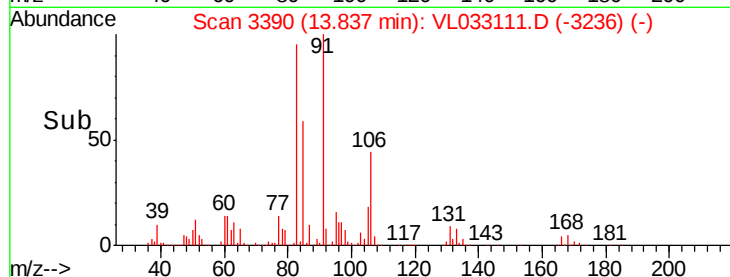
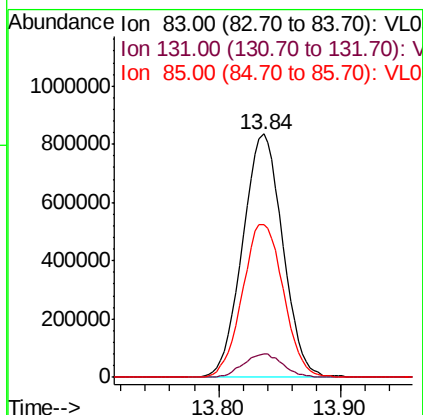
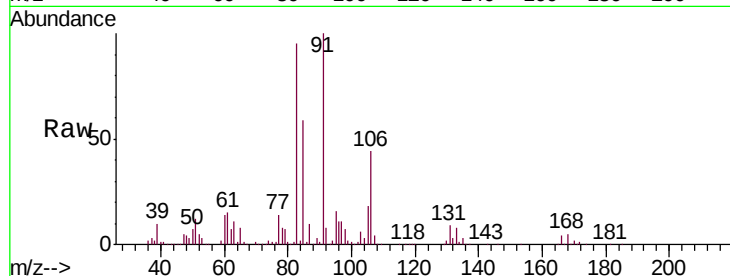




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.508 ppbv  
 RT: 13.84 min Scan# 3390  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

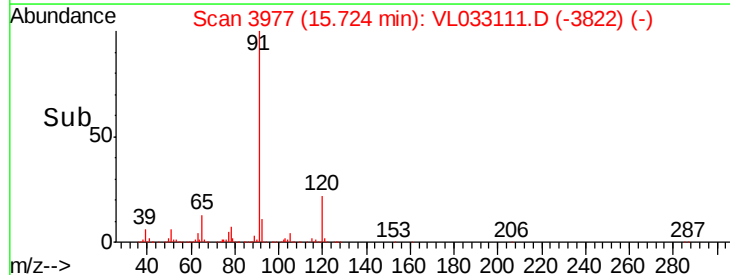
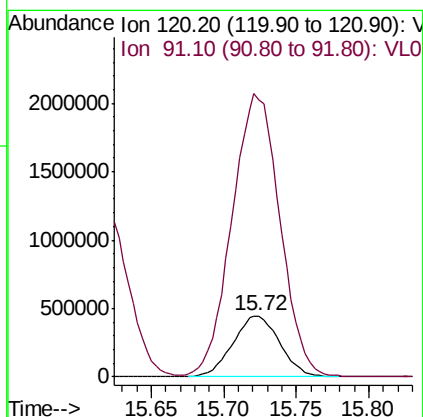
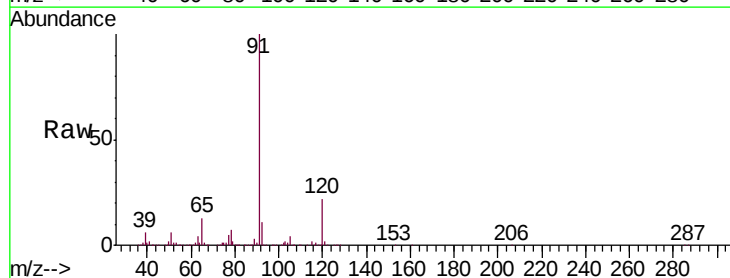
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

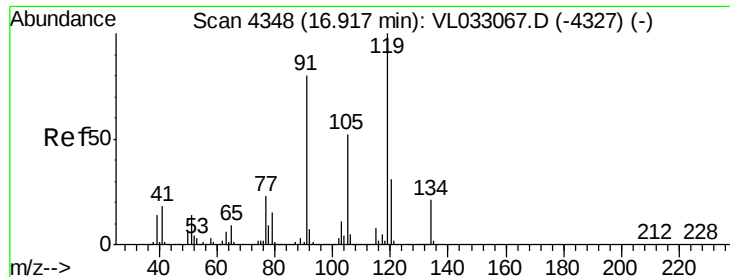
Tgt Ion: 83 Resp: 1895510  
 Ion Ratio Lower Upper  
 83 100  
 131 9.6 4.8 14.4  
 85 64.4 32.6 97.8



#64  
 n-propylbenzene  
 Concen: 8.146 ppbv  
 RT: 15.72 min Scan# 3977  
 Delta R.T. -0.00 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 120 Resp: 1000815  
 Ion Ratio Lower Upper  
 120 100  
 91 478.3 378.7 568.1

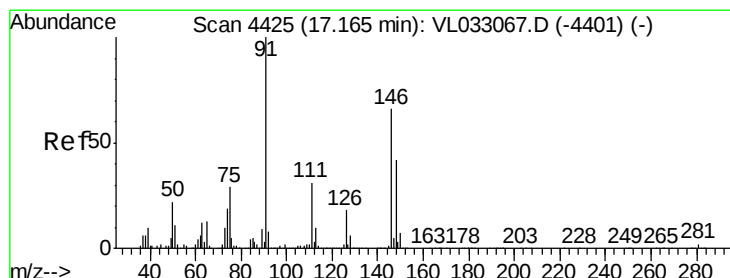
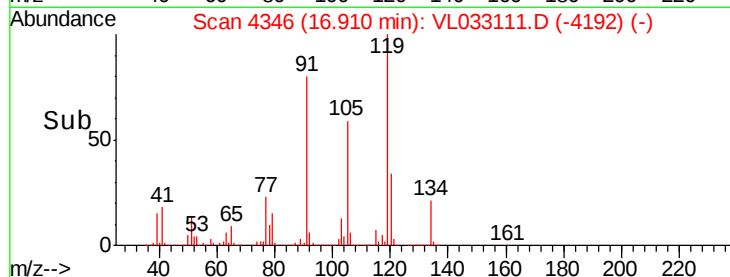
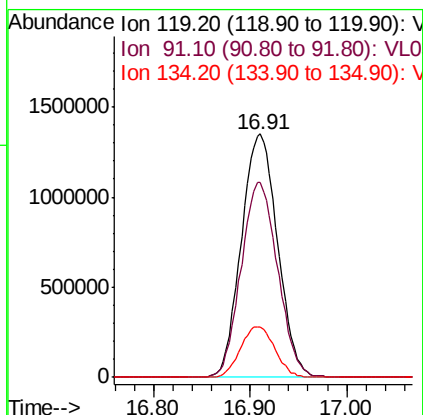
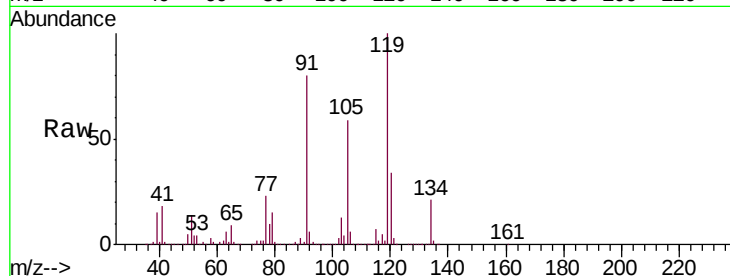




#65  
tert-Butylbenzene  
Concen: 8.204 ppbv  
RT: 16.91 min Scan# 4346  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

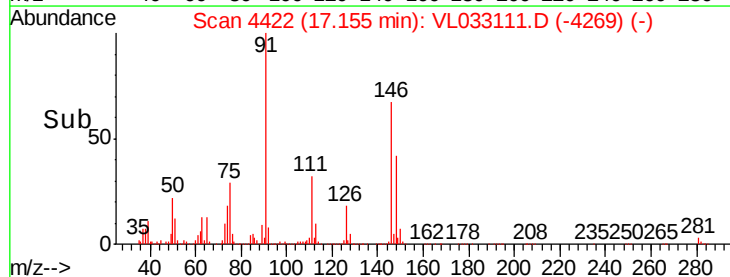
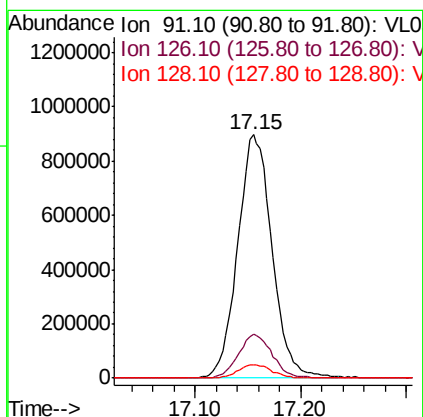
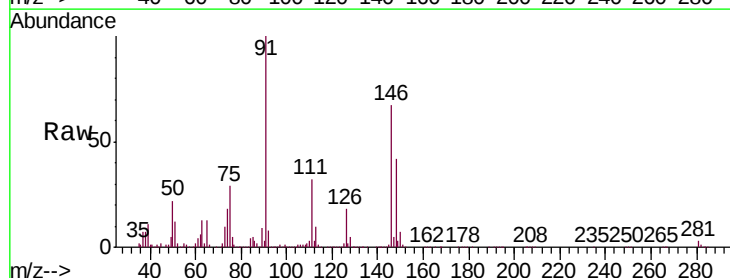
Instrument :  
MSVOA\_L  
ClientSampled :  
IDOC-4

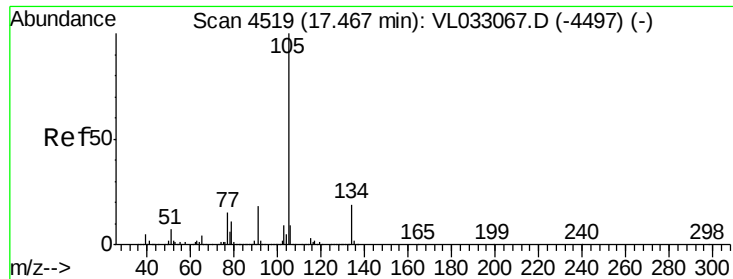
Tgt Ion: 119 Resp: 3514783  
Ion Ratio Lower Upper  
119 100  
91 81.1 64.6 97.0  
134 19.8 15.8 23.8



#66  
Benzyl Chloride  
Concen: 8.308 ppbv  
RT: 17.15 min Scan# 4422  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 2028678  
Ion Ratio Lower Upper  
91 100  
126 17.8 14.4 21.6  
128 5.7 4.5 6.7

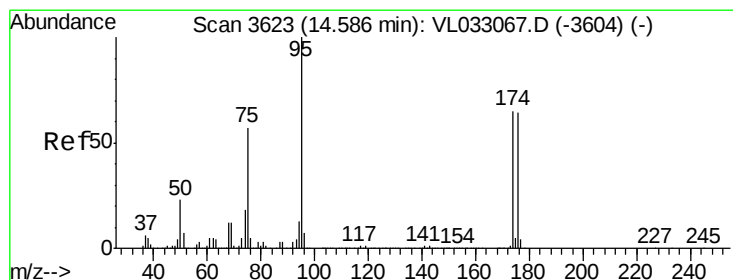
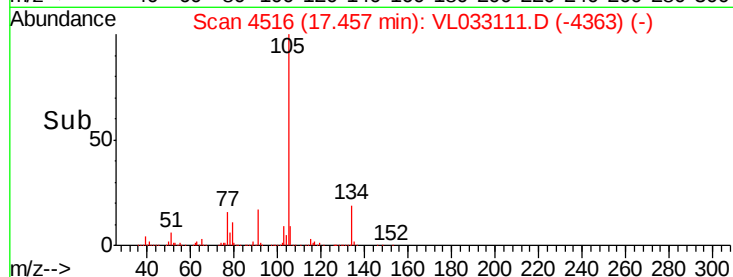
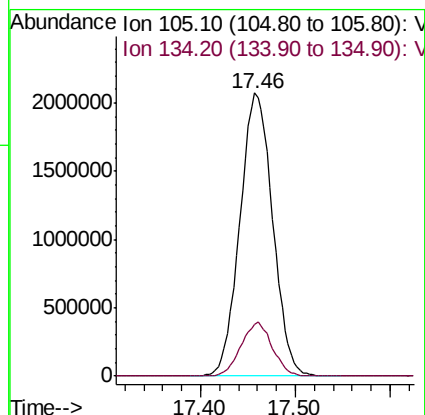
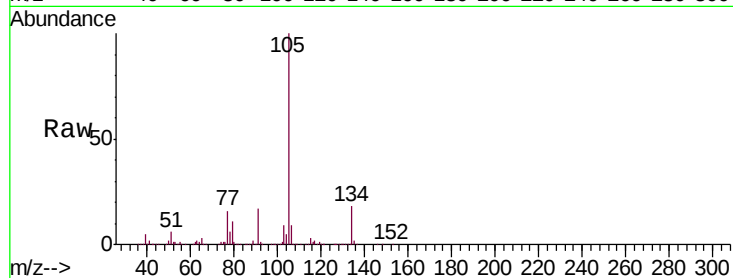




#67  
 sec-Butylbenzene  
 Concen: 8.130 ppbv  
 RT: 17.46 min Scan# 4516  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

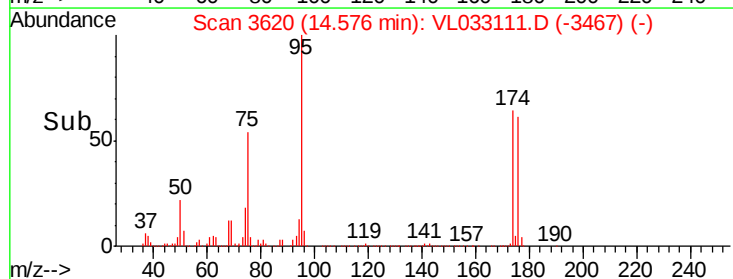
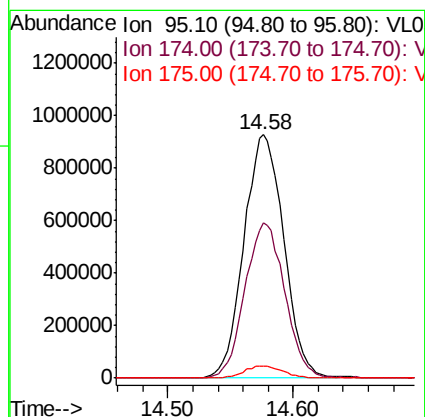
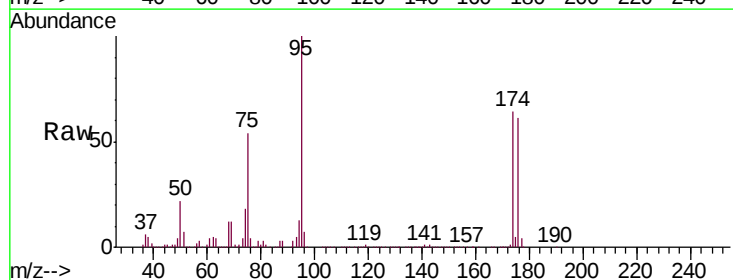
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

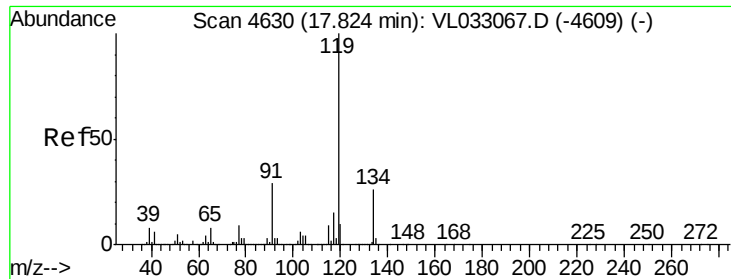
Tgt Ion: 105 Resp: 4984259  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.984 ppbv  
 RT: 14.58 min Scan# 3620  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion: 95 Resp: 2046933  
 Ion Ratio Lower Upper  
 95 100  
 174 63.9 51.9 77.9  
 175 4.9 3.9 5.9

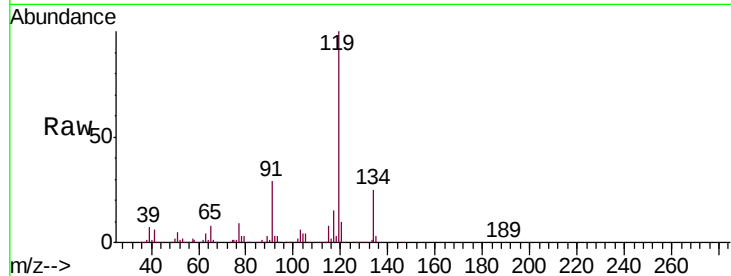




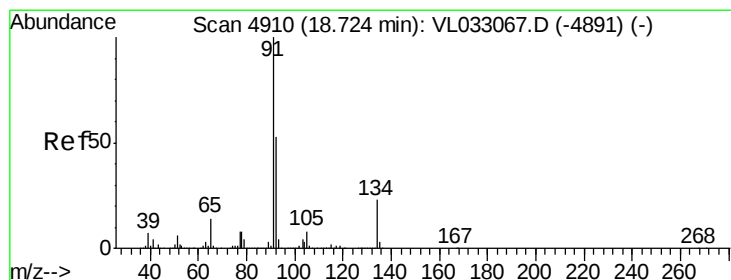
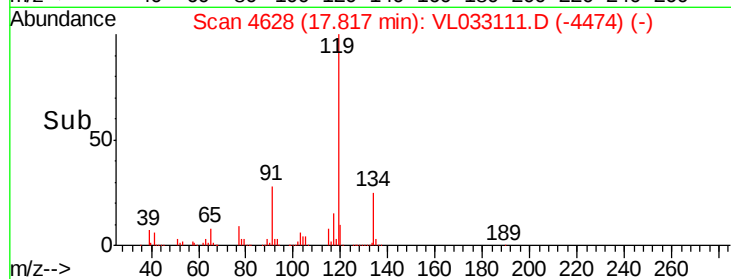
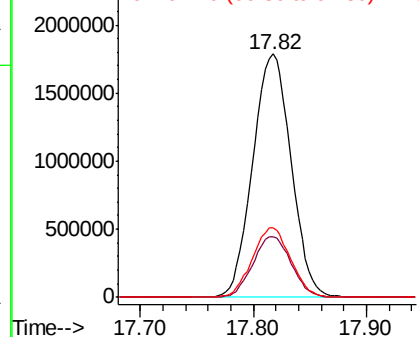
#69  
p-Isopropyltoluene  
Concen: 8.458 ppbv  
RT: 17.82 min Scan# 4628  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Instrument :  
MSVOA\_L  
ClientSampleId :  
IDOC-4

Tgt Ion: 119 Resp: 4208854  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.1 30.1  
91 28.5 23.0 34.4

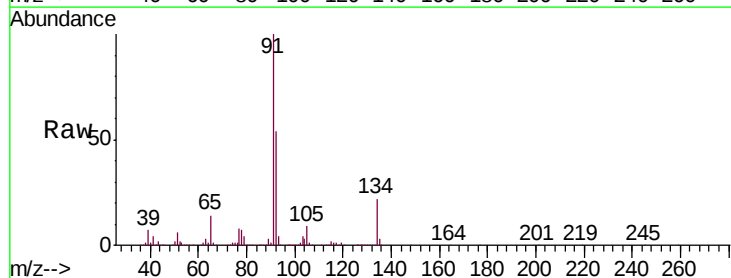


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

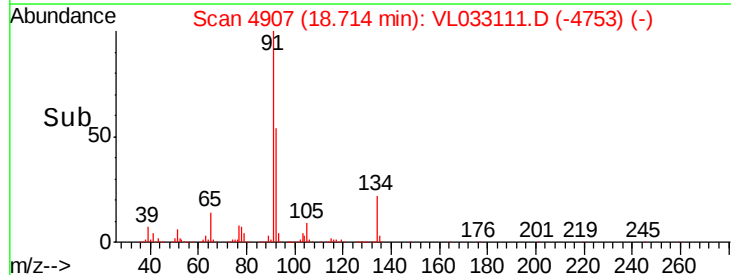
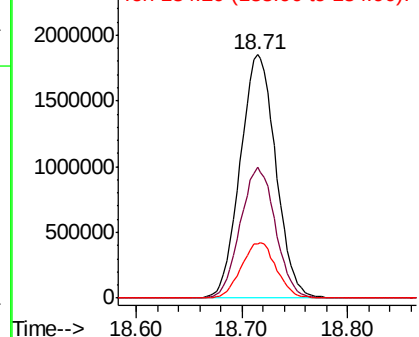


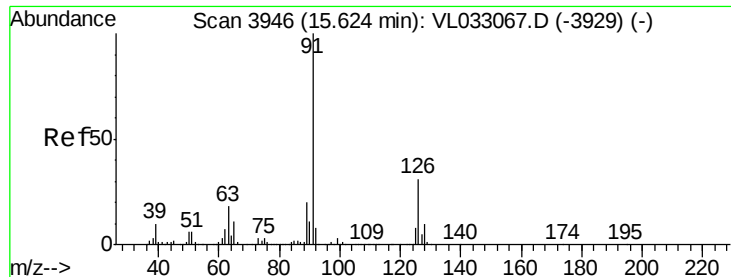
#70  
n-Butylbenzene  
Concen: 8.652 ppbv  
RT: 18.71 min Scan# 4907  
Delta R.T. -0.01 min  
Lab File: VL033111.D  
Acq: 17 Jan 2019 3:50

Tgt Ion: 91 Resp: 4328021  
Ion Ratio Lower Upper  
91 100  
92 53.3 42.4 63.6  
134 22.5 18.0 27.0



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: 8.570 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

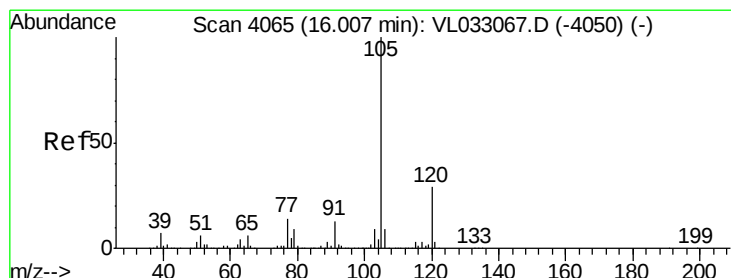
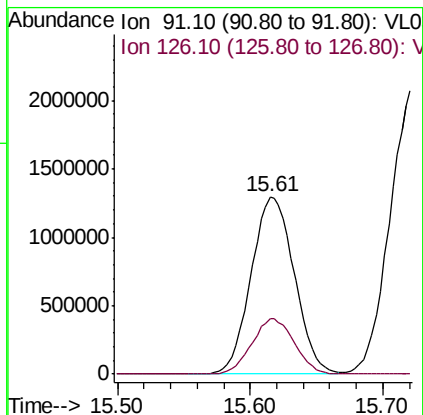
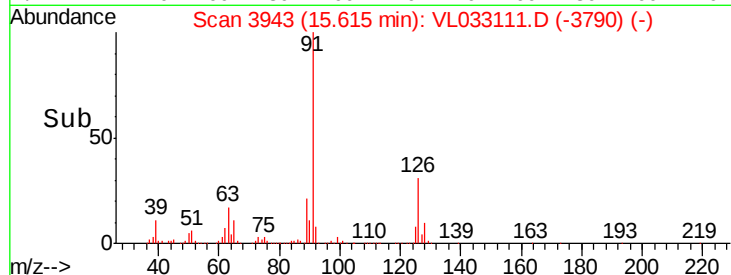
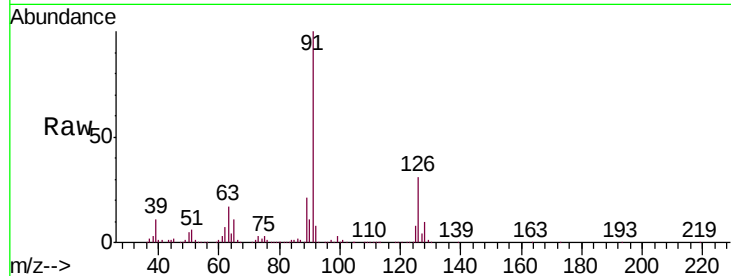
IDOC-4

Tgt Ion: 91 Resp: 2939560

Ion Ratio Lower Upper

91 100

126 30.9 12.4 49.6



#72

4-Ethyltoluene

Concen: 8.627 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Tgt Ion: 105 Resp: 3222032

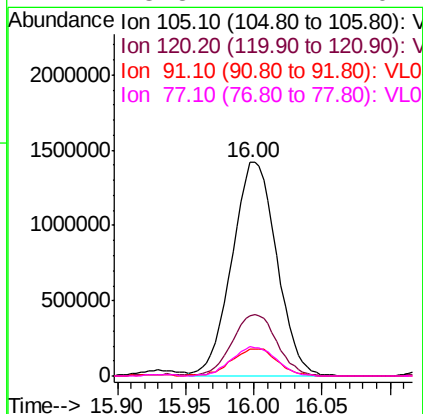
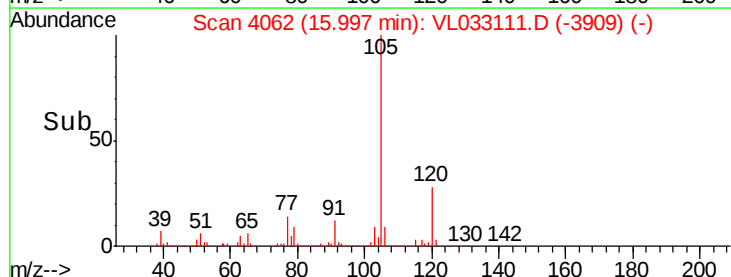
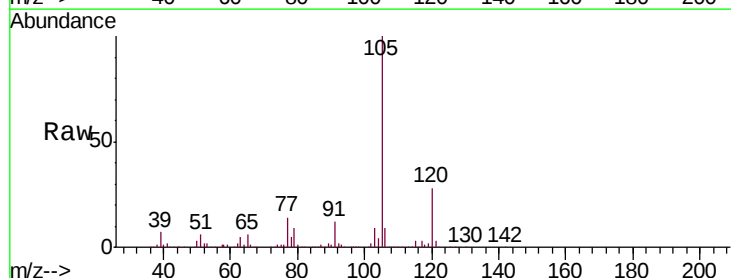
Ion Ratio Lower Upper

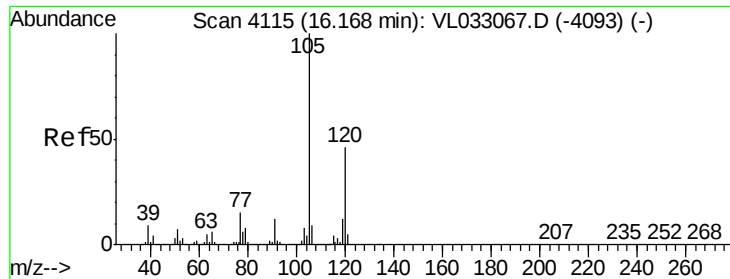
105 100

120 28.9 23.0 34.6

91 12.8 10.3 15.5

77 13.8 11.1 16.7

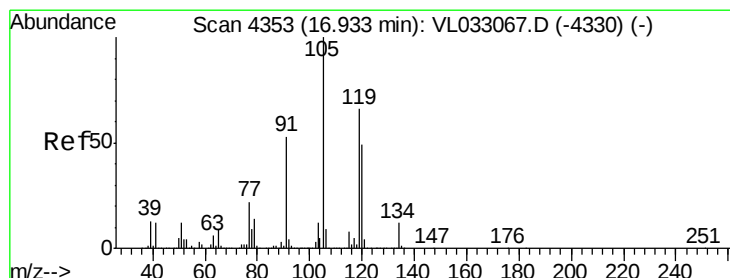
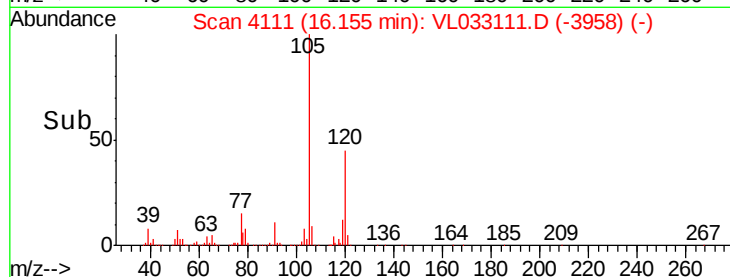
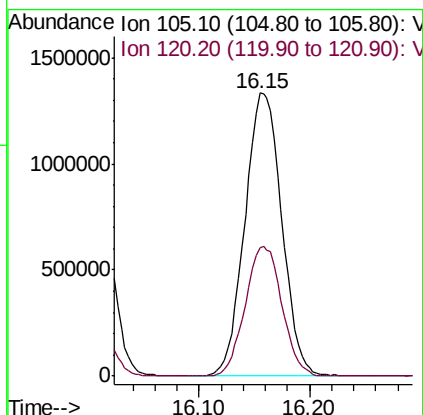
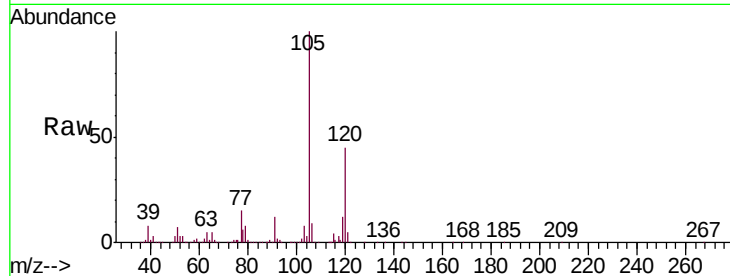




#73  
 1,3,5-Trimethylbenzene  
 Concen: 8.378 ppbv  
 RT: 16.15 min Scan# 4111  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

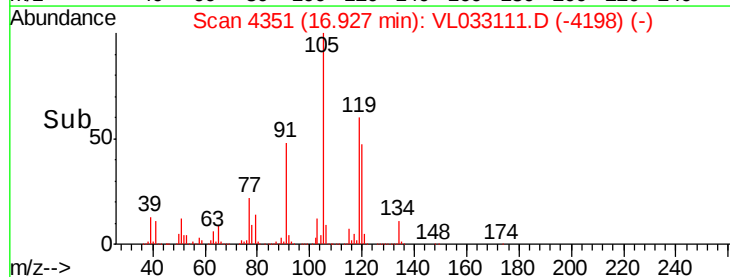
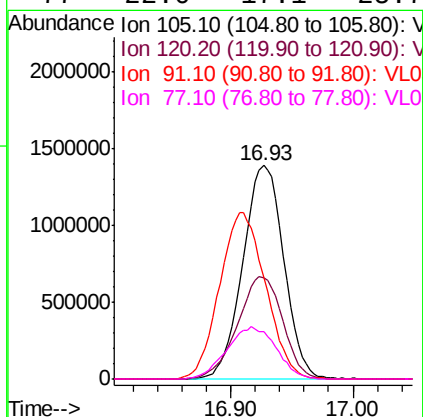
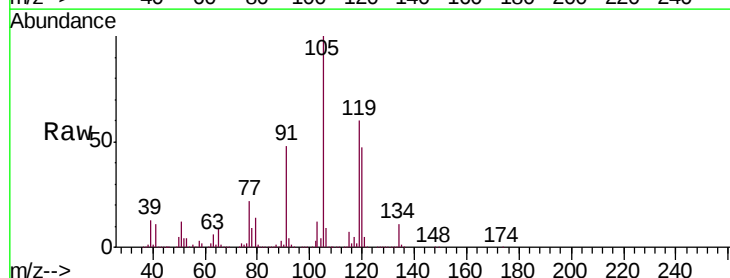
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IDOC-4

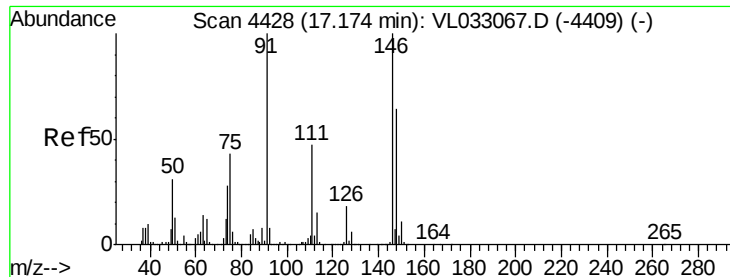
Tgt Ion:105 Resp: 3087213  
 Ion Ratio Lower Upper  
 105 100  
 120 45.3 36.1 54.1



#74  
 1,2,4-Trimethylbenzene  
 Concen: 7.906 ppbv  
 RT: 16.93 min Scan# 4351  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Tgt Ion:105 Resp: 3226733  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 37.0 55.4  
 91 47.4 35.4 53.0  
 77 22.0 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 7.658 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampled :

IDOC-4

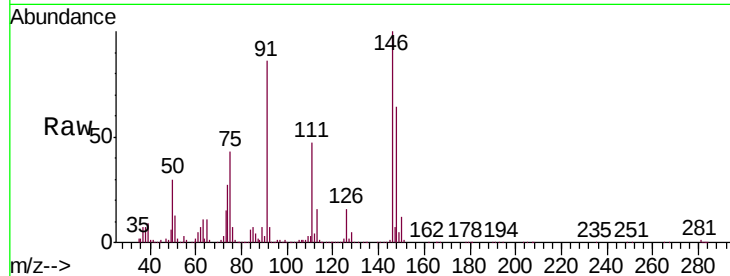
Tgt Ion:146 Resp: 1839718

Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.2

148 64.0 32.1 96.3

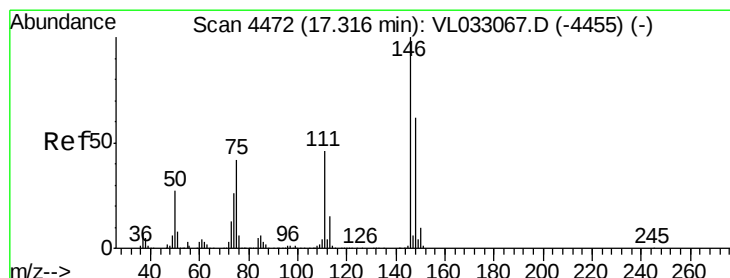
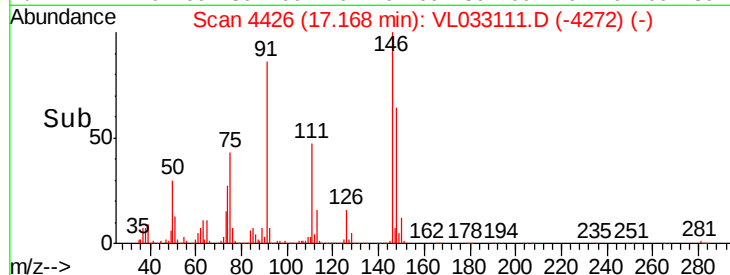
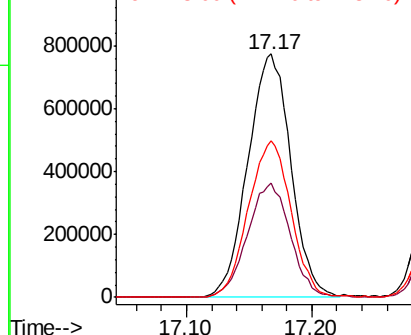


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.305 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

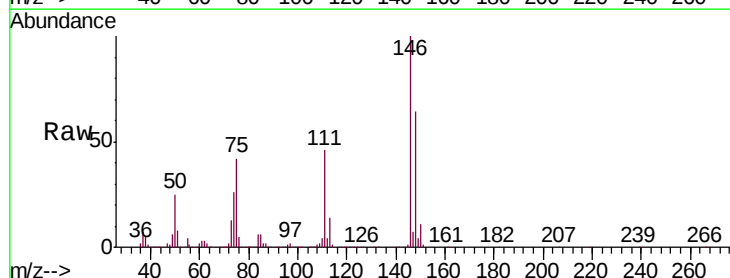
Tgt Ion:146 Resp: 1817431

Ion Ratio Lower Upper

146 100

111 45.8 22.7 68.1

148 65.1 32.4 97.2

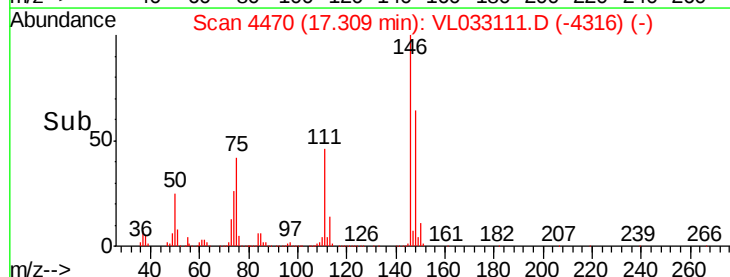
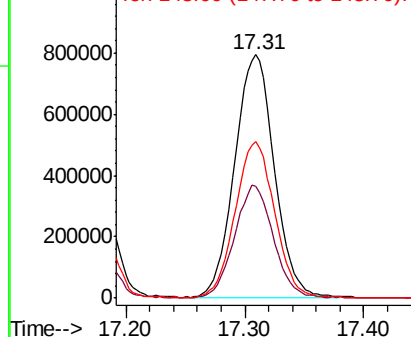


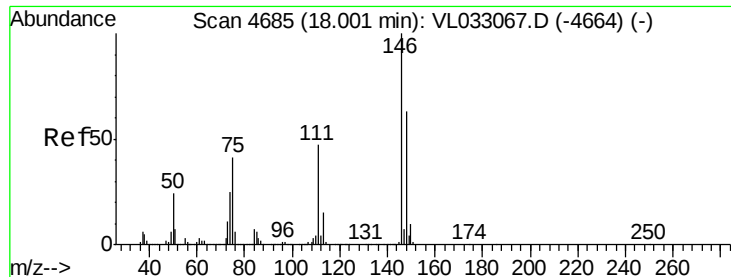
Abundance

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: 8.403 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampled :

IDOC-4

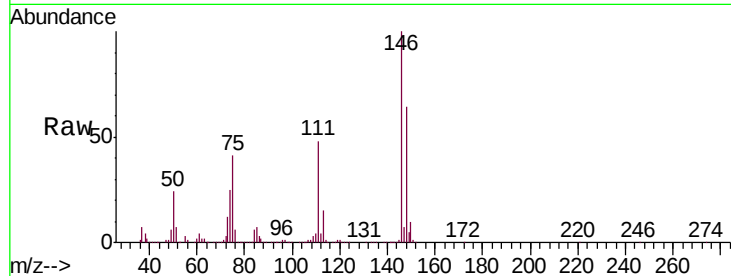
Tgt Ion:146 Resp: 1817880

Ion Ratio Lower Upper

146 100

111 48.7 24.4 73.2

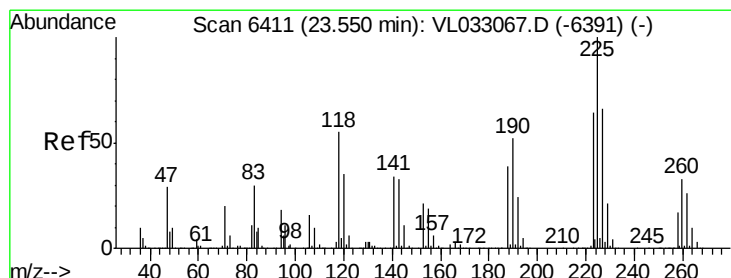
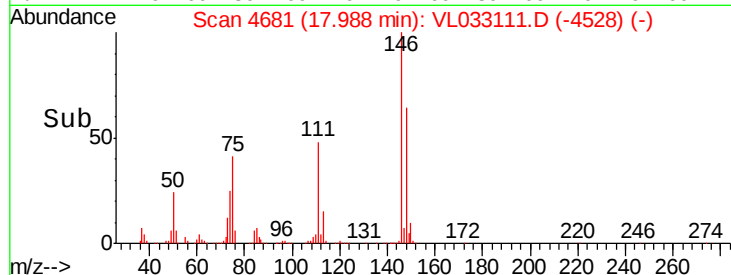
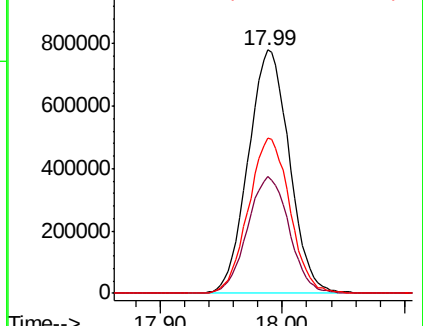
148 64.3 32.3 96.9



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: 7.517 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

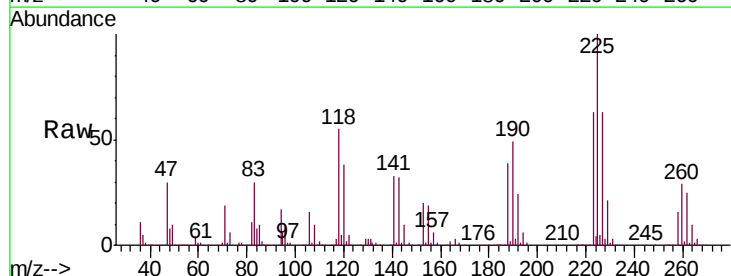
Tgt Ion:225 Resp: 1249027

Ion Ratio Lower Upper

225 100

223 63.7 51.0 76.6

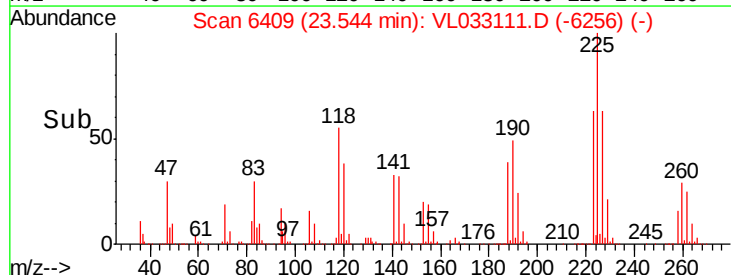
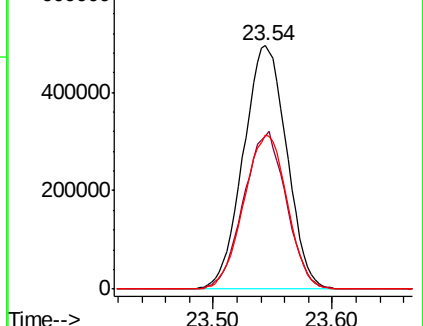
227 63.6 51.0 76.4

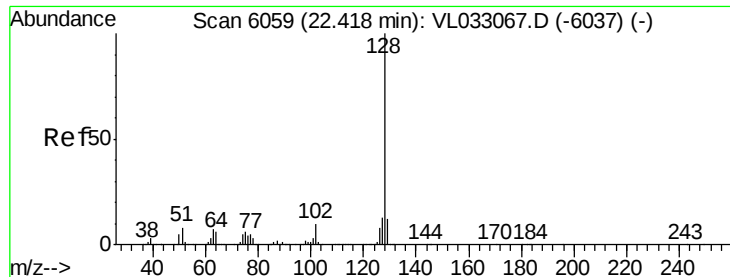


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.083 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

Instrument :

MSVOA\_L

ClientSampleId :

IDOC-4

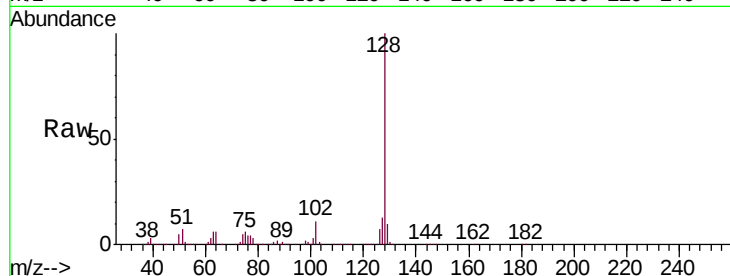
Tgt Ion:128 Resp: 3809836

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.6

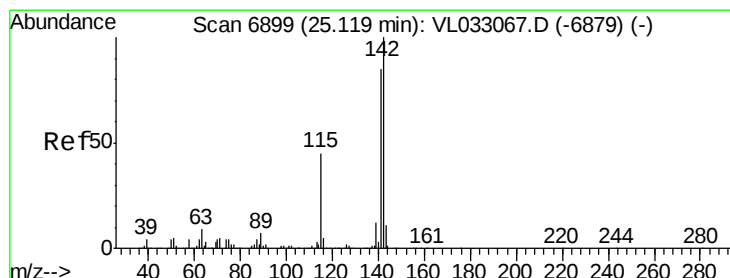
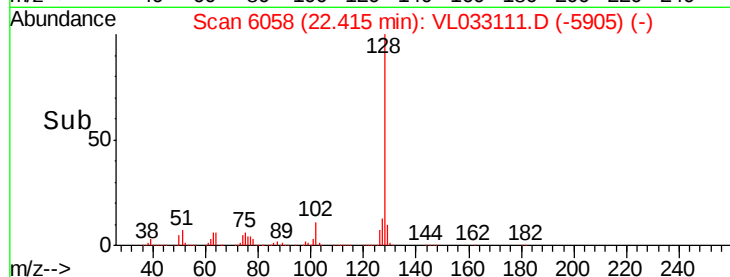
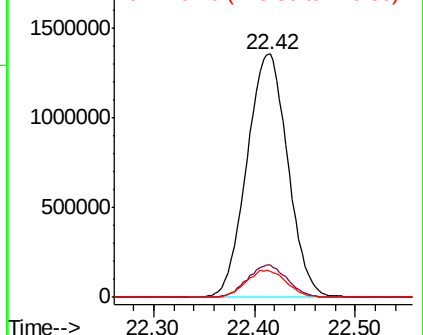
129 10.5 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.444 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.01 min

Lab File: VL033111.D

Acq: 17 Jan 2019 3:50

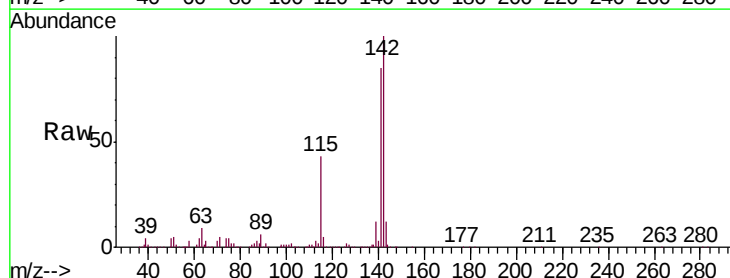
Tgt Ion:142 Resp: 880850

Ion Ratio Lower Upper

142 100

141 85.3 68.6 103.0

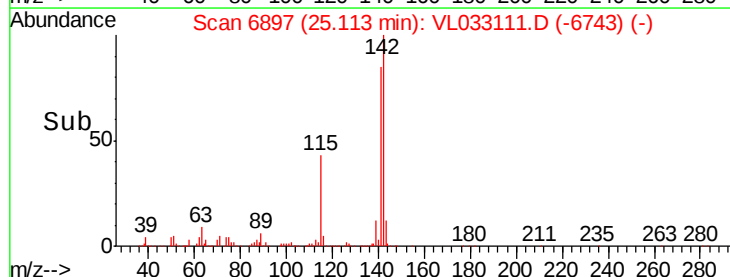
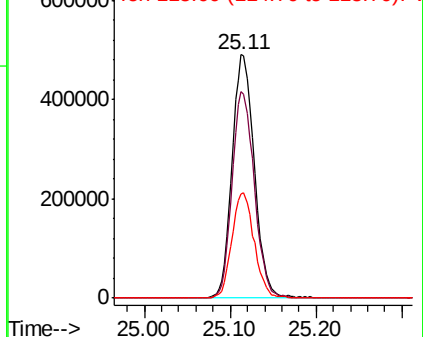
115 43.7 35.6 53.4

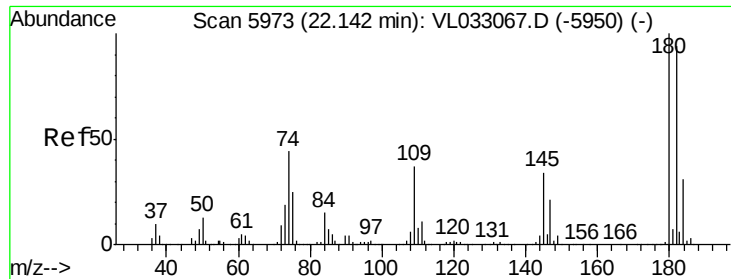


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.815 ppbv  
 RT: 22.14 min Scan# 5972  
 Delta R.T. -0.01 min  
 Lab File: VL033111.D  
 Acq: 17 Jan 2019 3:50

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IDOC-4

Tgt Ion:180 Resp: 1796043  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 76.1 114.1  
 184 30.6 24.6 37.0

