

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
 Data File : VD066888.D  
 Acq On : 25 Sep 2020 23:27  
 Operator : VA/SY  
 Sample : VD0925SBL02  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0925SBL02

Quant Time: Sep 26 06:38:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 323493   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 588319   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 549880   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 231272   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 177523     | 56.07   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 112.14% |       |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 187029     | 49.97   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 99.94%  |       |          |
| 50) Toluene-d8              | 10.34 | 98   | 607564     | 47.64   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.28%  |       |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 198652     | 45.50   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 91.00%  |       |          |

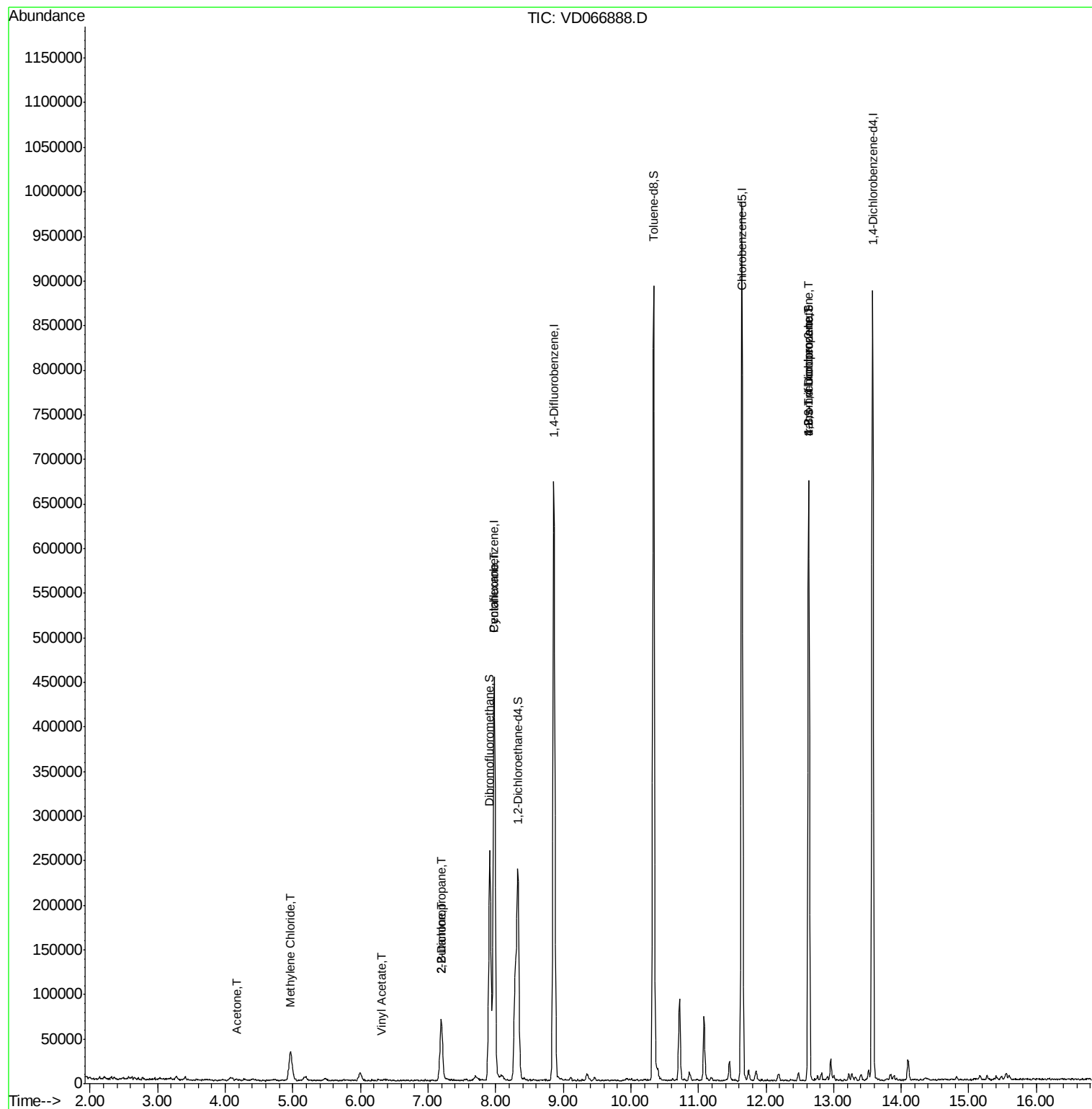
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 1550     | Below Cal |        | 84     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 4434     | Below Cal | #      | 76     |
| 16) Acetone                    | 4.17  | 43   | 1633     | 2.431     | ug/l # | 79     |
| 18) Methyl Acetate             | 4.70  | 43   | 76       | Below Cal | #      | 50     |
| 20) Methylene Chloride         | 4.97  | 84   | 26709    | 1.750     | ug/l   | 95     |
| 23) Vinyl Acetate              | 6.31  | 43   | 806      | 2.825     | ug/l # | 71     |
| 25) 2-Butanone                 | 7.20  | 43   | 3597     | 4.456     | ug/l # | 70     |
| 26) 2,2-Dichloropropane        | 7.20  | 77   | 5885     | 1.004     | ug/l # | 56     |
| 31) Cyclohexane                | 7.97  | 56   | 9912     | 1.722     | ug/l # | 7      |
| 49) 1,4-Dioxane                | 9.47  | 88   | 2005     | Below Cal | #      | 74     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 102817   | 53.646    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 102817   | 134.216   | ug/l # | 10     |

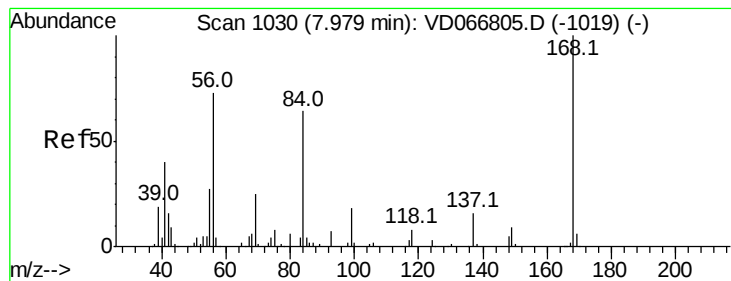
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
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ALS Vial : 30 Sample Multiplier: 1

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MSVOA\_D  
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VD0925SBL02

Quant Time: Sep 26 06:38:37 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

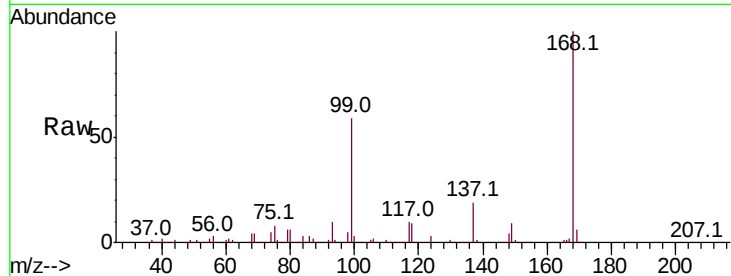
VD0925SBL02

Tot Ion:168 Resp: 323493

Ion Ratio Lower Upper

168 100

99 59.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

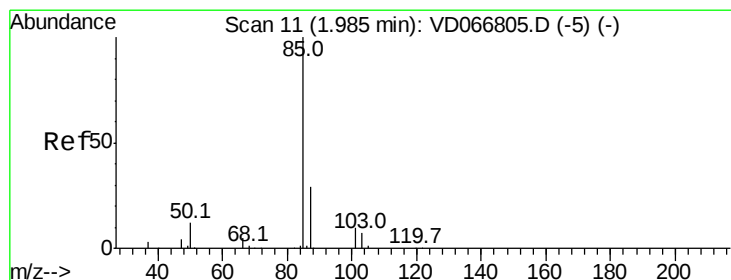
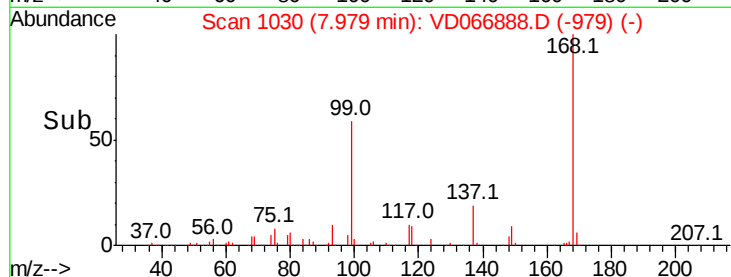
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066888.D

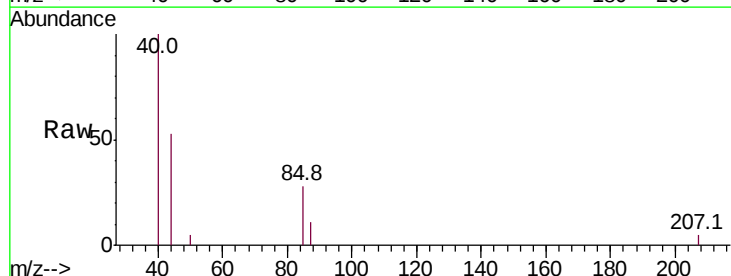
Acq: 25 Sep 2020 23:27

Tgt Ion: 85 Resp: 1550

Ion Ratio Lower Upper

85 100

87 37.7 14.5 43.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

1000

800

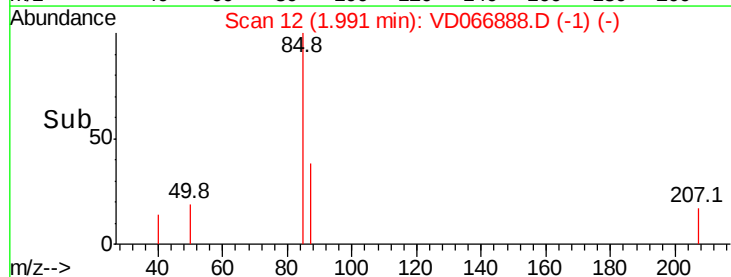
600

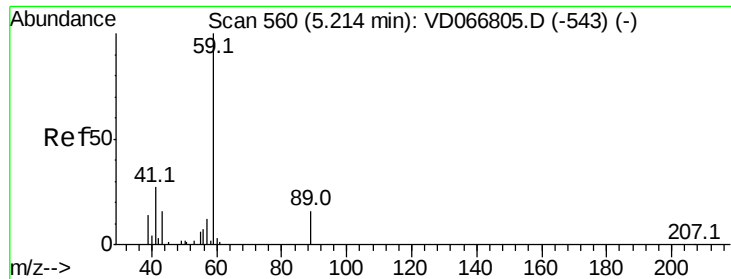
400

200

0

Time-->



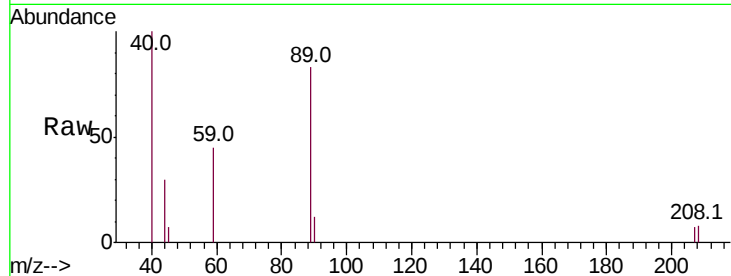


#11

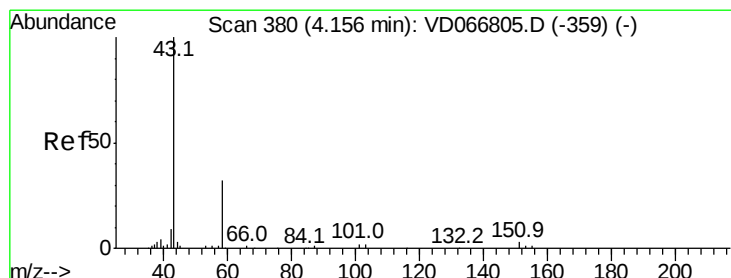
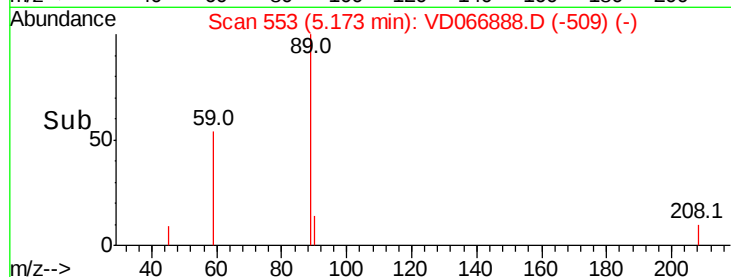
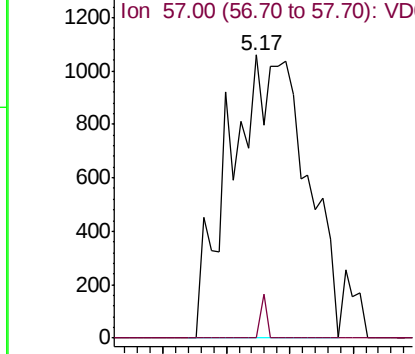
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.17 min Scan# 553  
Delta R.T. -0.04 min  
Lab File: VD066888.D  
Acq: 25 Sep 2020 23:27

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0925SBL02

Tot Ion: 59 Resp: 4434  
Ion Ratio Lower Upper  
59 100  
57 1.3 8.3 12.5#



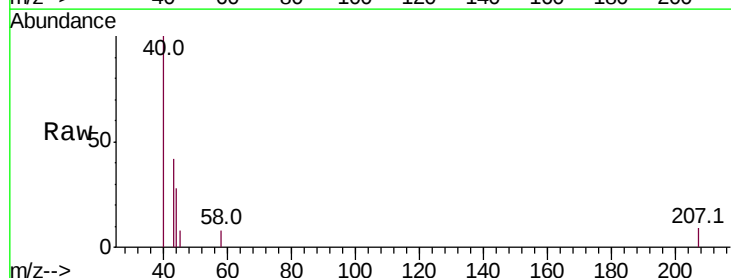
Abundance Ion 59.00 (58.70 to 59.70): VDC  
Ion 57.00 (56.70 to 57.70): VDC



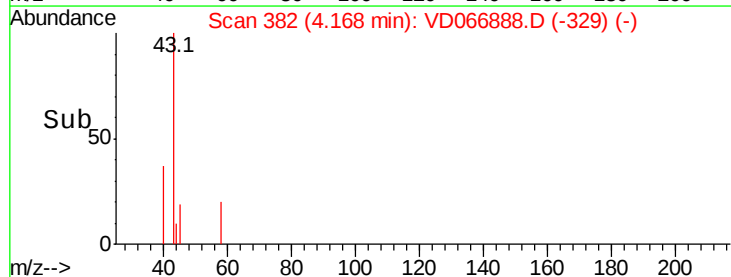
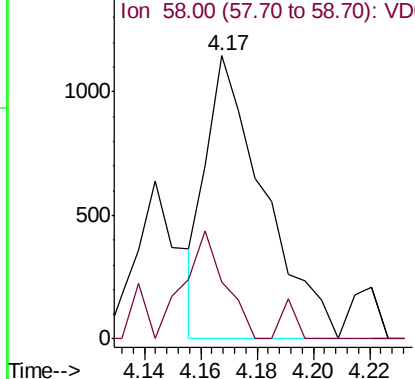
#16

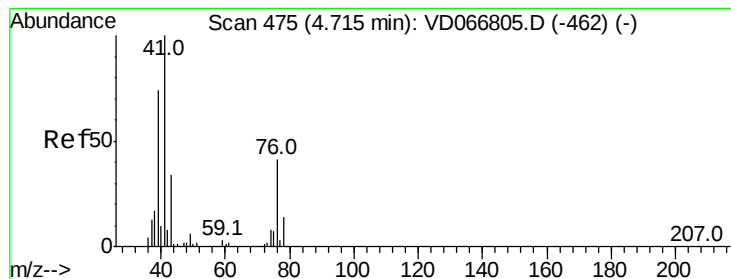
Acetone  
Concen: 2.431 ug/l  
RT: 4.17 min Scan# 382  
Delta R.T. 0.01 min  
Lab File: VD066888.D  
Acq: 25 Sep 2020 23:27

Tgt Ion: 43 Resp: 1633  
Ion Ratio Lower Upper  
43 100  
58 20.1 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC





#18

Methyl Acetate

Concen: Below Cal

RT: 4.70 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

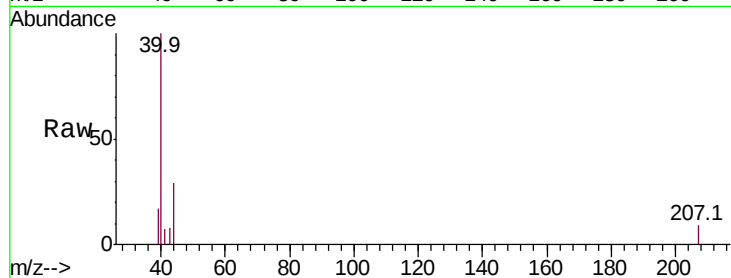
VD0925SBL02

Tot Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.70

250

200

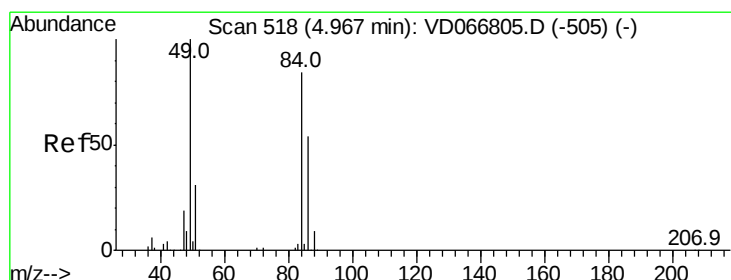
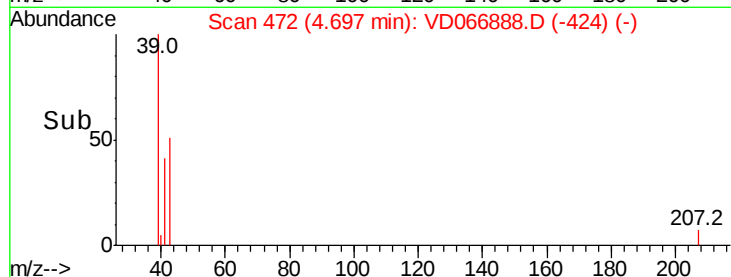
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: 1.750 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Tgt Ion: 84 Resp: 26709

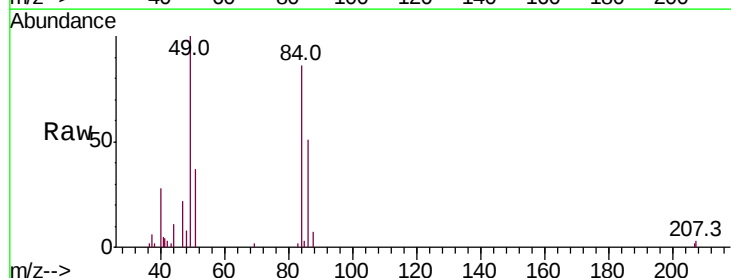
Ion Ratio Lower Upper

84 100

49 116.4 95.4 143.2

51 43.5 29.7 44.5

86 59.0 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

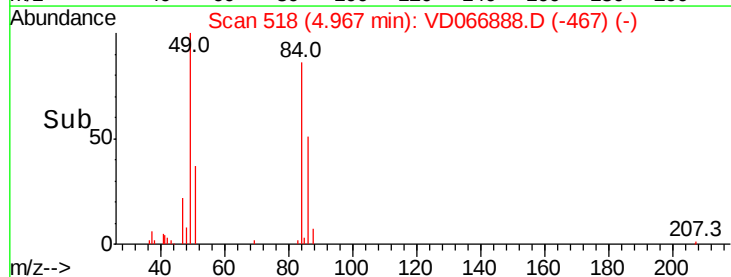
15000

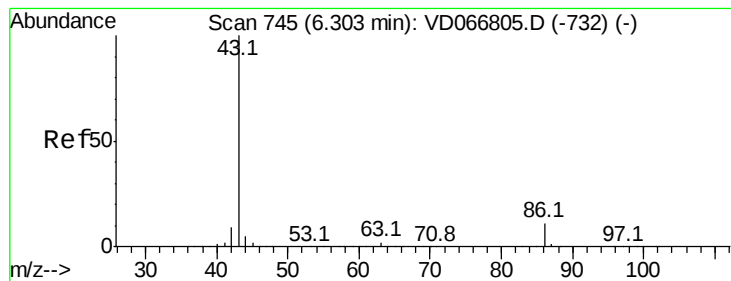
10000

5000

0

Time-->





#23

Vinyl Acetate

Concen: 2.825 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.01 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

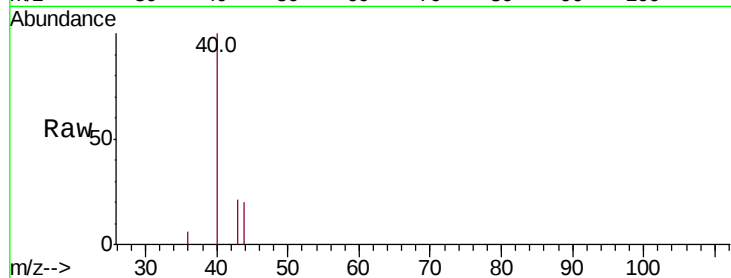
VD0925SBL02

Tot Ion: 43 Resp: 806

Ion Ratio Lower Upper

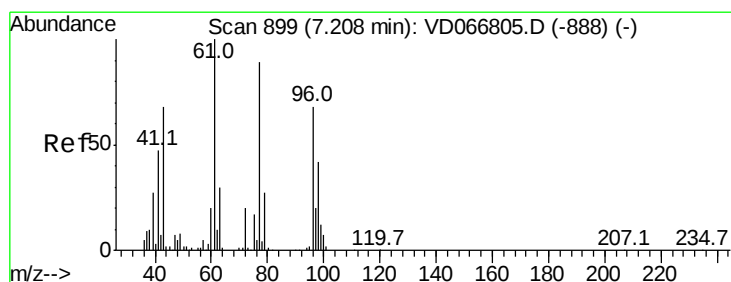
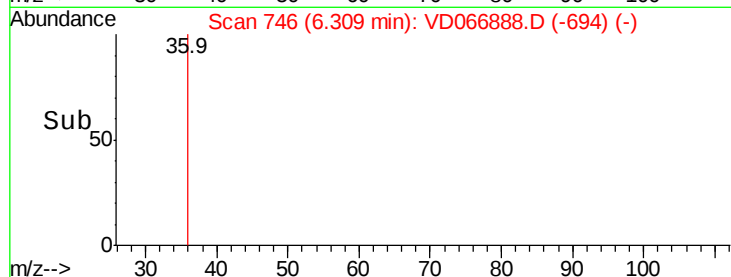
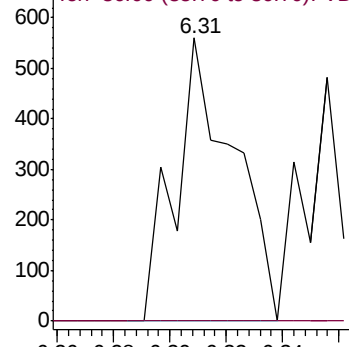
43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 4.456 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD066888.D

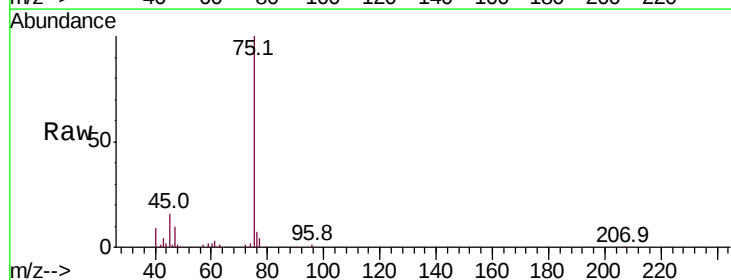
Acq: 25 Sep 2020 23:27

Tgt Ion: 43 Resp: 3597

Ion Ratio Lower Upper

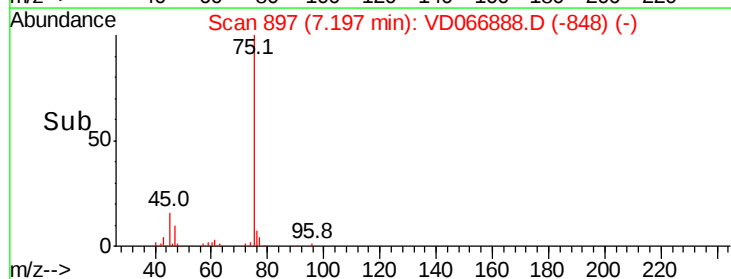
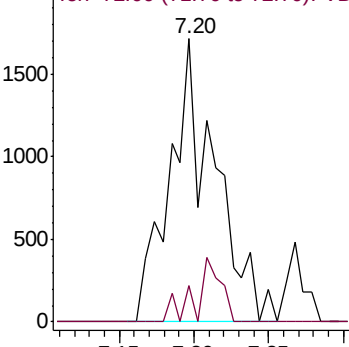
43 100

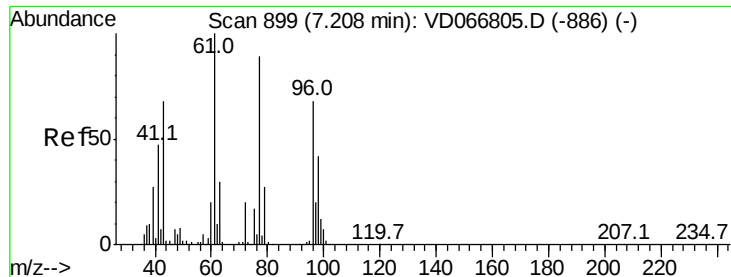
72 12.8 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.004 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

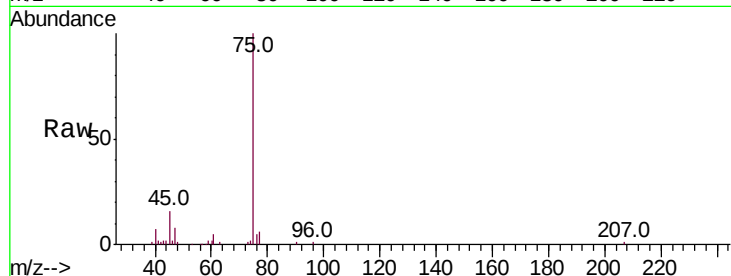
VD0925SBL02

Tot Ion: 77 Resp: 5885

Ion Ratio Lower Upper

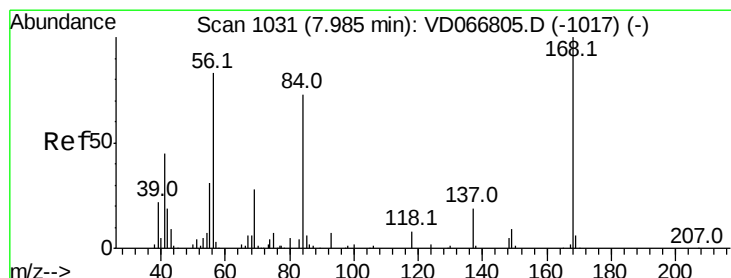
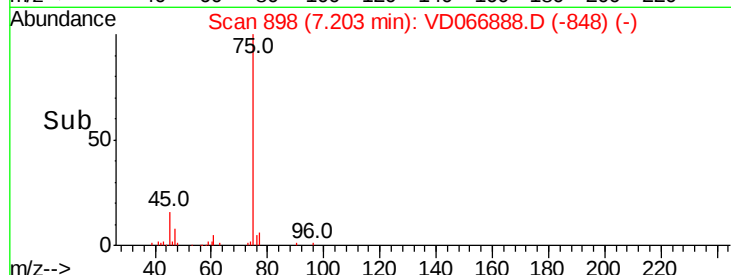
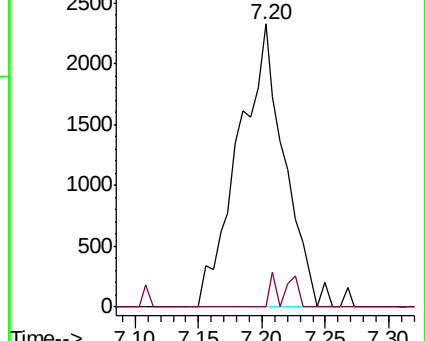
77 100

97 1.7 11.7 35.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



#31

Cyclohexane

Concen: 1.722 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

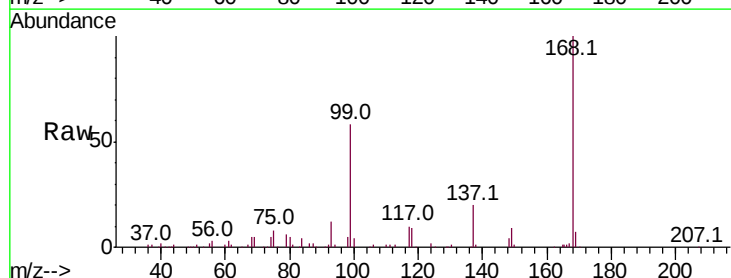
Tgt Ion: 56 Resp: 9912

Ion Ratio Lower Upper

56 100

69 147.9 27.0 40.4#

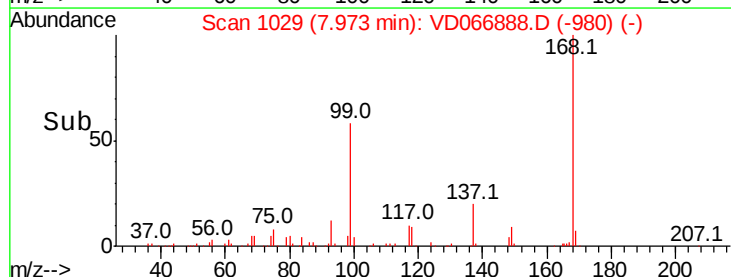
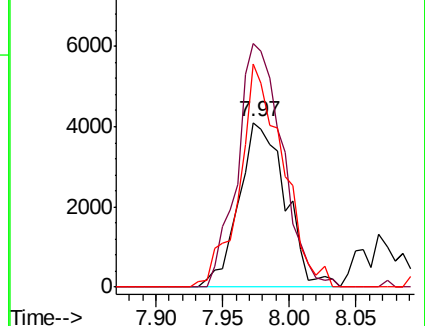
84 135.7 70.2 105.4#

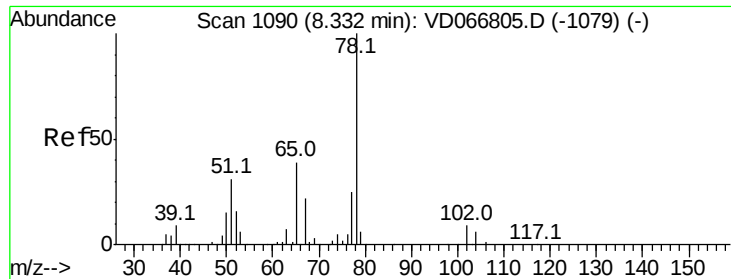


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 56.068 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

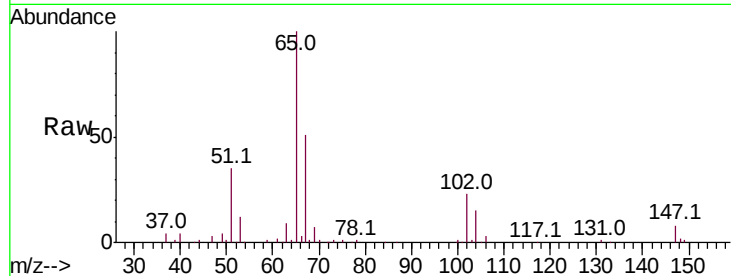
VD0925SBL02

Tot Ion: 65 Resp: 177523

Ion Ratio Lower Upper

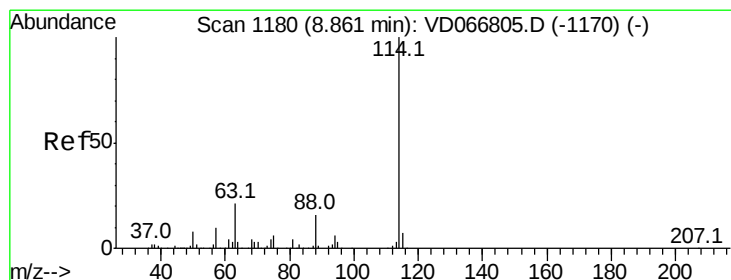
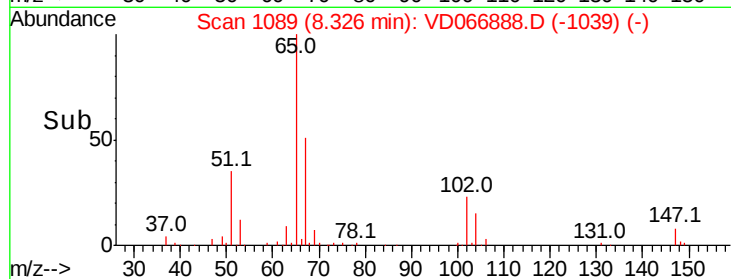
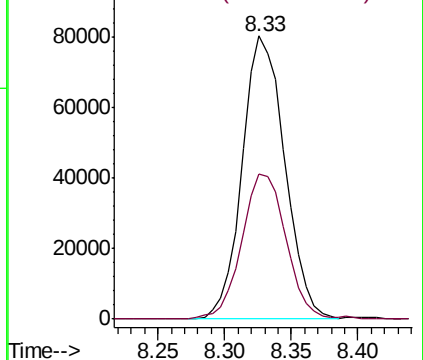
65 100

67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

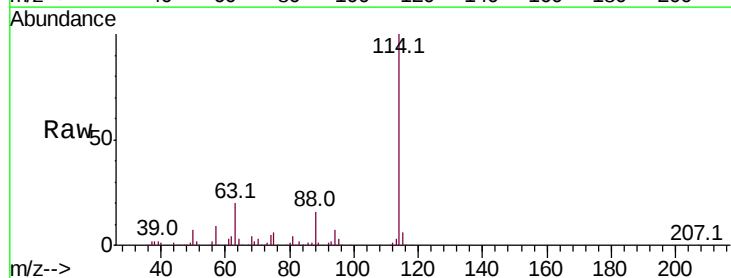
Tgt Ion:114 Resp: 588319

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

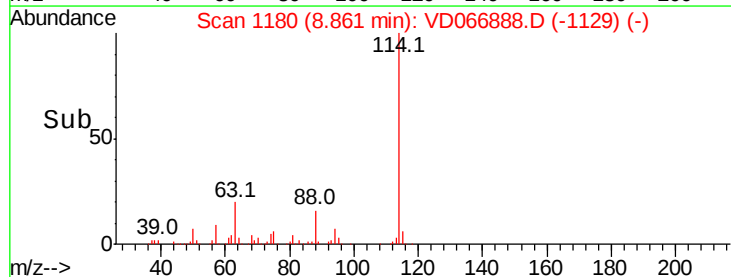
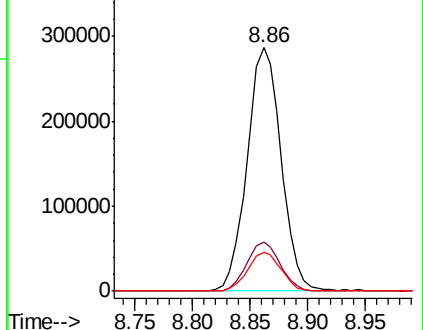
88 15.9 0.0 32.6

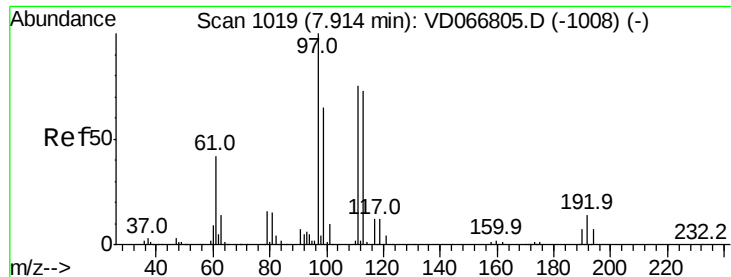


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

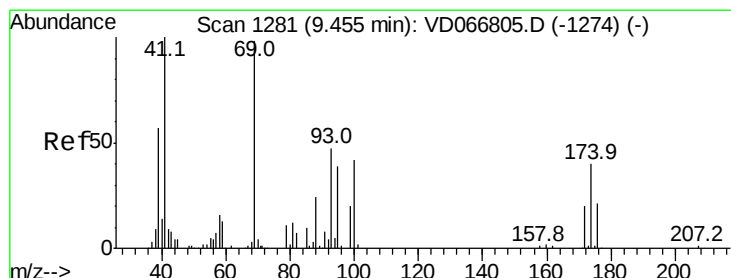
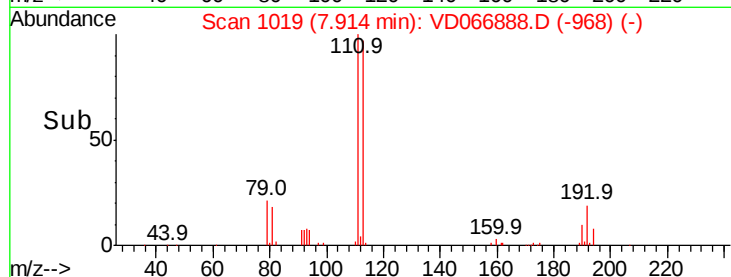
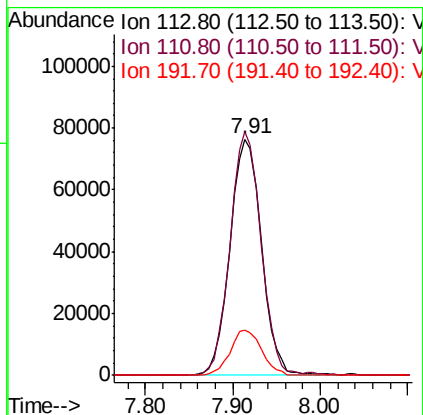
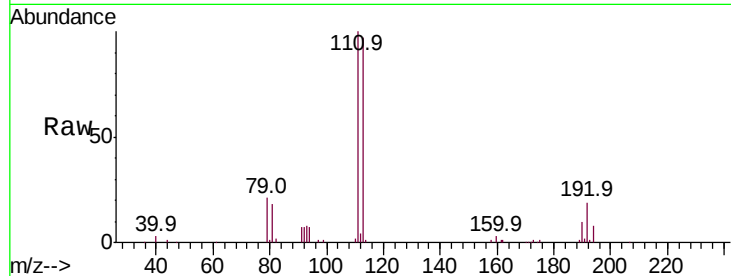




#35  
 Dibromofluoromethane  
 Concen: 49.969 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD066888.D  
 Acq: 25 Sep 2020 23:27

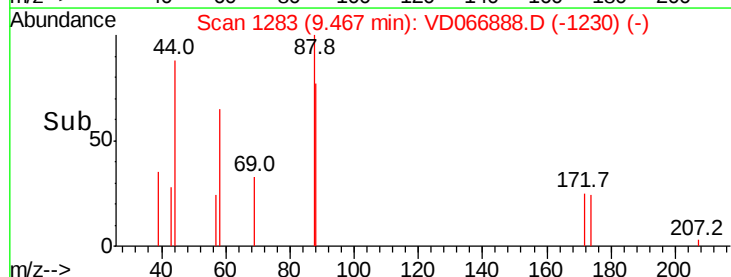
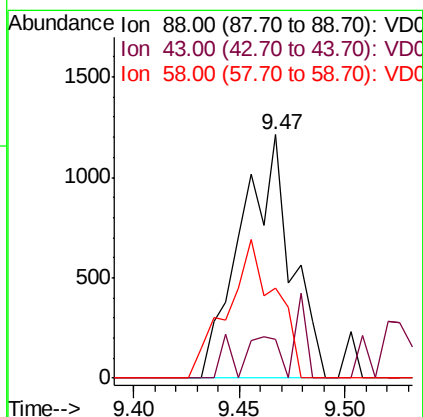
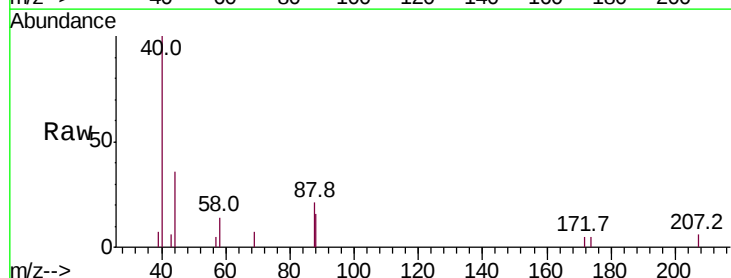
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0925SBL02

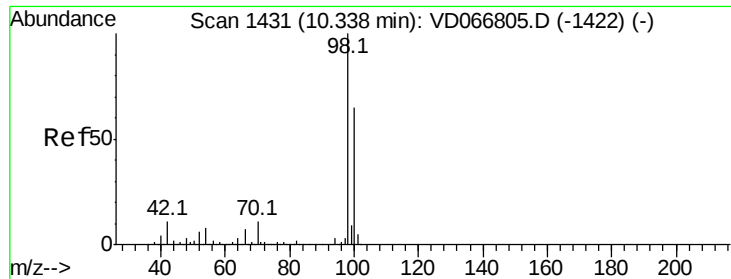
Tot Ion:113 Resp: 187029  
 Ion Ratio Lower Upper  
 113 100  
 111 100.5 81.8 122.8  
 192 19.0 14.4 21.6



#49  
 1,4-Dioxane  
 Concen: Below Cal  
 RT: 9.47 min Scan# 1283  
 Delta R.T. 0.01 min  
 Lab File: VD066888.D  
 Acq: 25 Sep 2020 23:27

Tgt Ion: 88 Resp: 2005  
 Ion Ratio Lower Upper  
 88 100  
 43 10.4 27.7 41.5#  
 58 54.6 55.5 83.3#





#50

Toluene-d8

Concen: 47.642 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

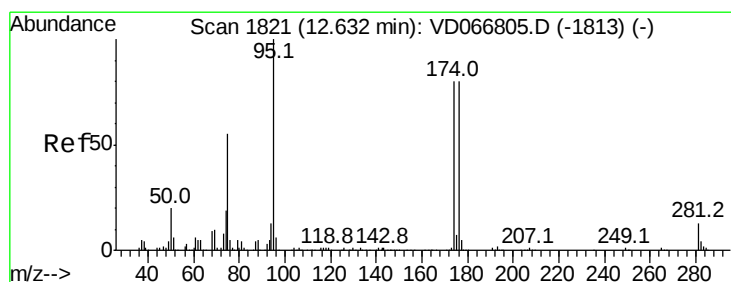
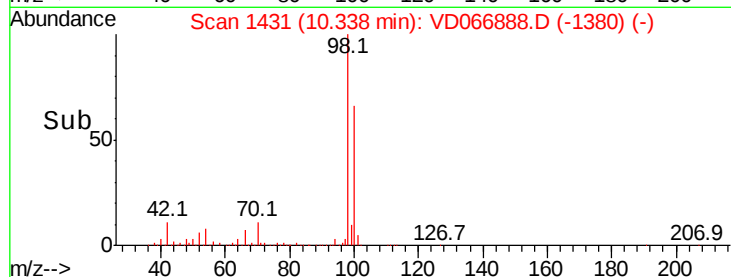
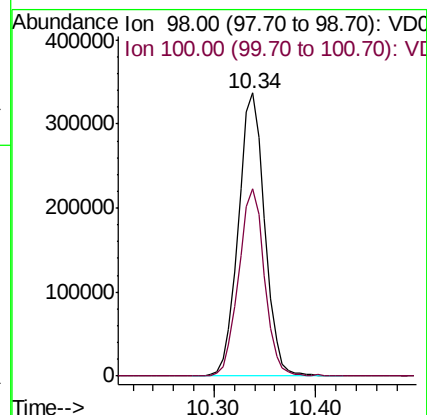
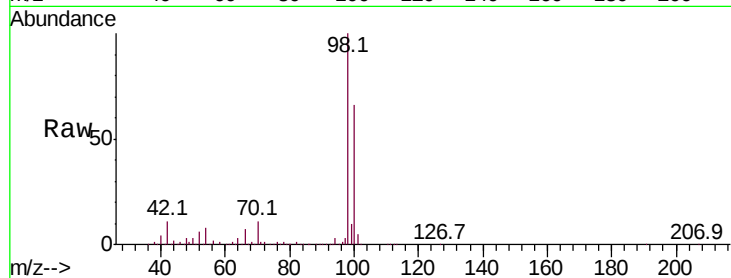
VD0925SBL02

Tot Ion: 98 Resp: 607564

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 45.503 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

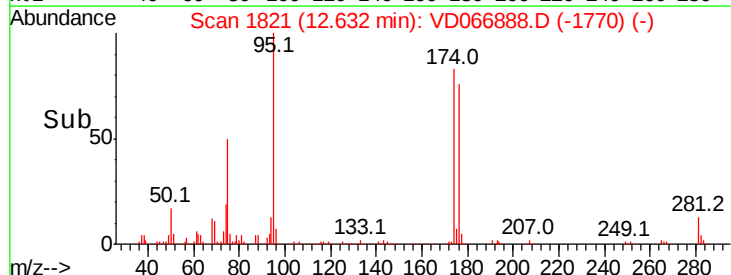
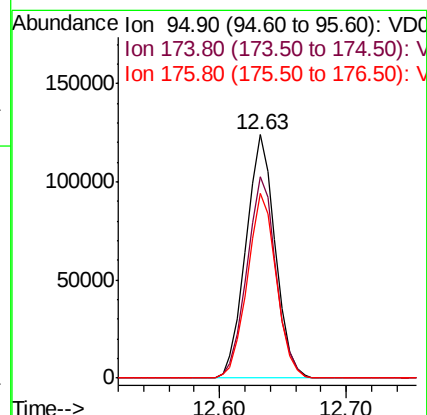
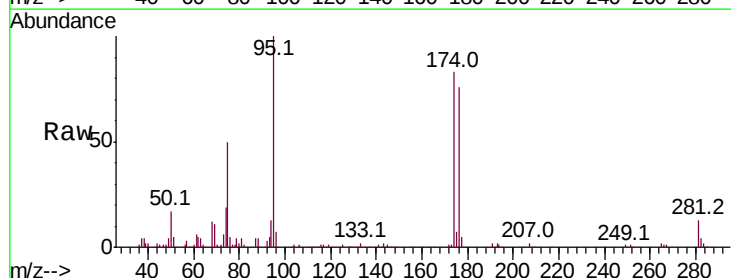
Tgt Ion: 95 Resp: 198652

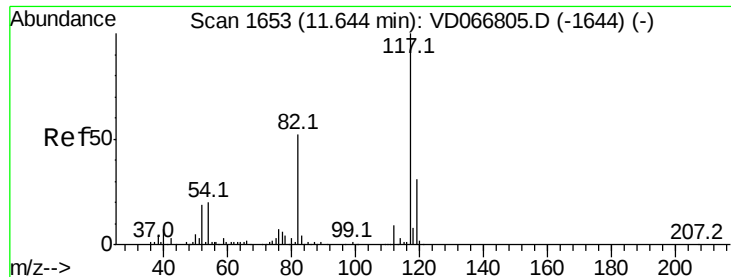
Ion Ratio Lower Upper

95 100

174 82.5 0.0 159.8

176 74.9 0.0 154.4

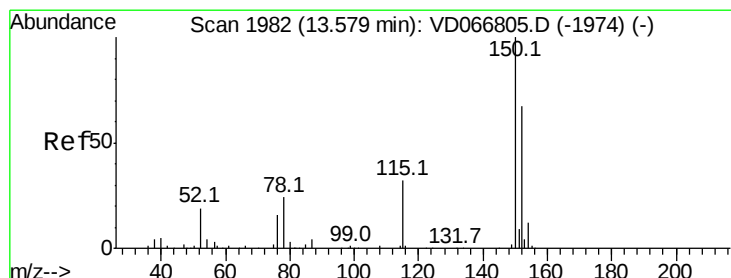
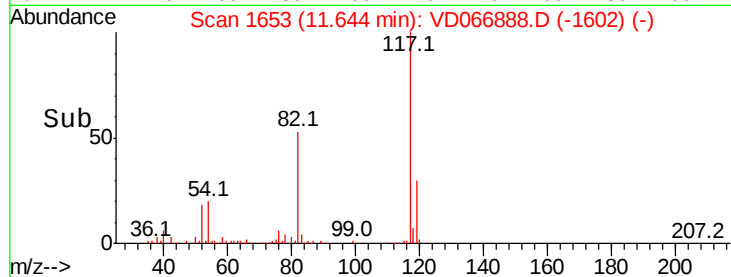
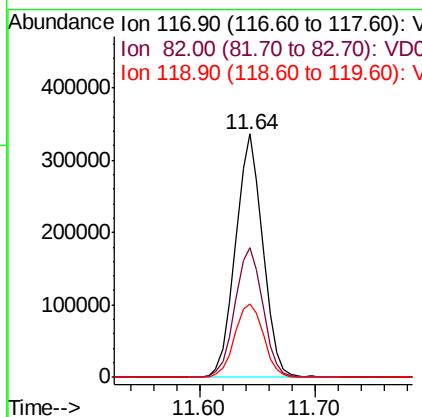
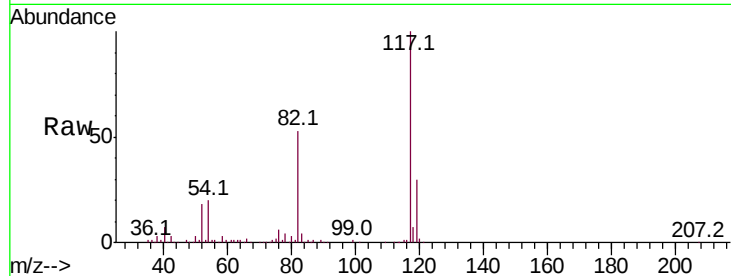




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066888.D  
Acq: 25 Sep 2020 23:27

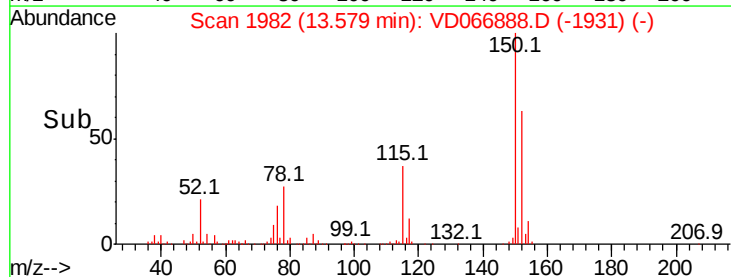
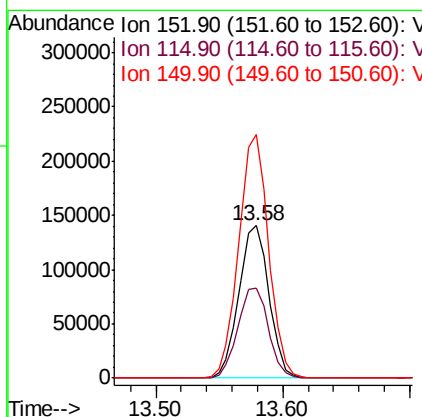
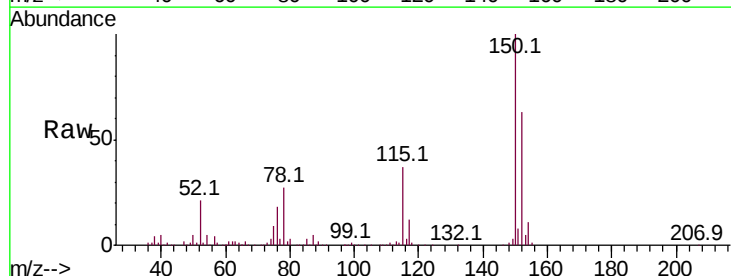
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0925SBL02

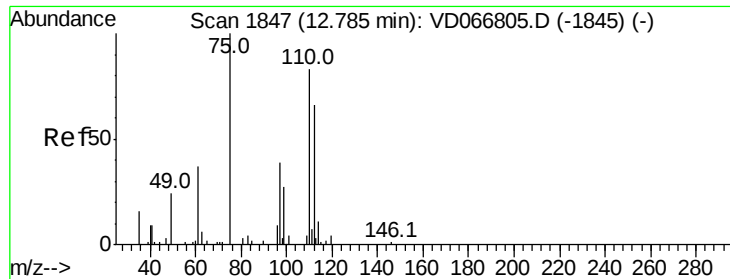
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.4  | 41.8  | 62.6  |
| 119     | 30.3  | 24.6  | 37.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066888.D  
Acq: 25 Sep 2020 23:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.1  | 30.3  | 91.0  |
| 150     | 158.1 | 0.0   | 346.2 |





#76

1,2,3-Trichloropropane

Concen: 53.646 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

Instrument :

MSVOA\_D

ClientSampleId :

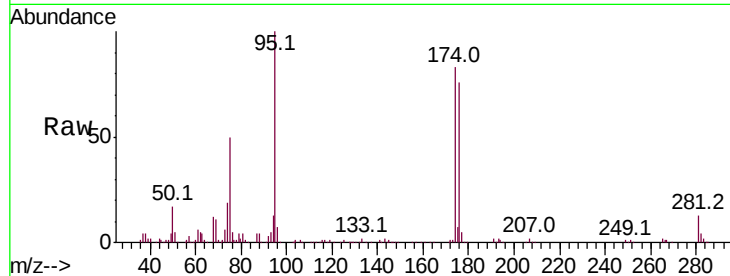
VD0925SBL02

Tot Ion: 75 Resp: 102817

Ion Ratio Lower Upper

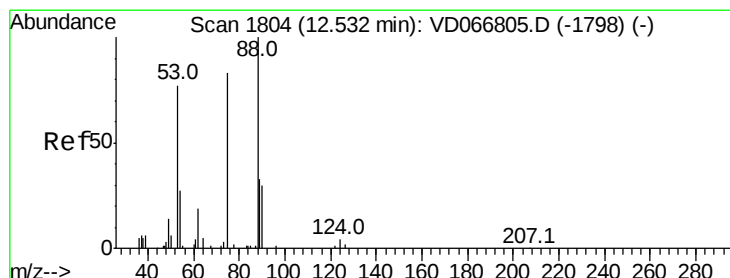
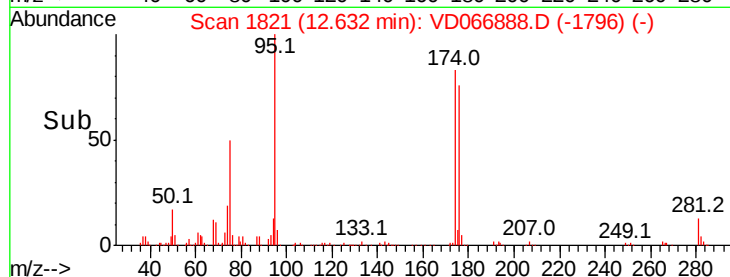
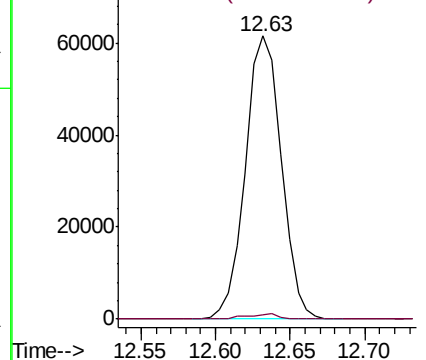
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 134.216 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066888.D

Acq: 25 Sep 2020 23:27

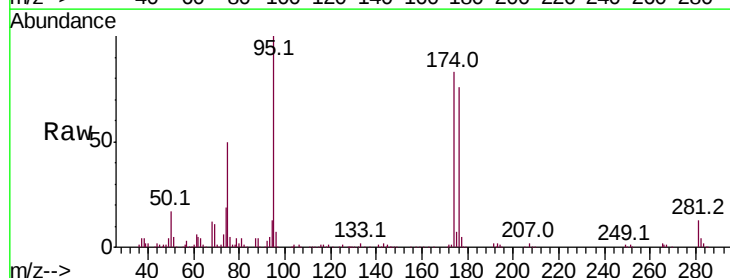
Tgt Ion: 75 Resp: 102817

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.2 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

