

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082420\  
 Data File : VD066381.D  
 Acq On : 24 Aug 2020 15:15  
 Operator : VA/SY  
 Sample : L3773-01  
 Misc : 7.22G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP

Quant Time: Aug 25 02:42:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.97  | 168  | 227287   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 352130   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 356798   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 188522   | 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   | 116880   | 52.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.90% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 108663   | 49.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.70%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 427530   | 53.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.14% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 167082   | 58.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.90% |          |

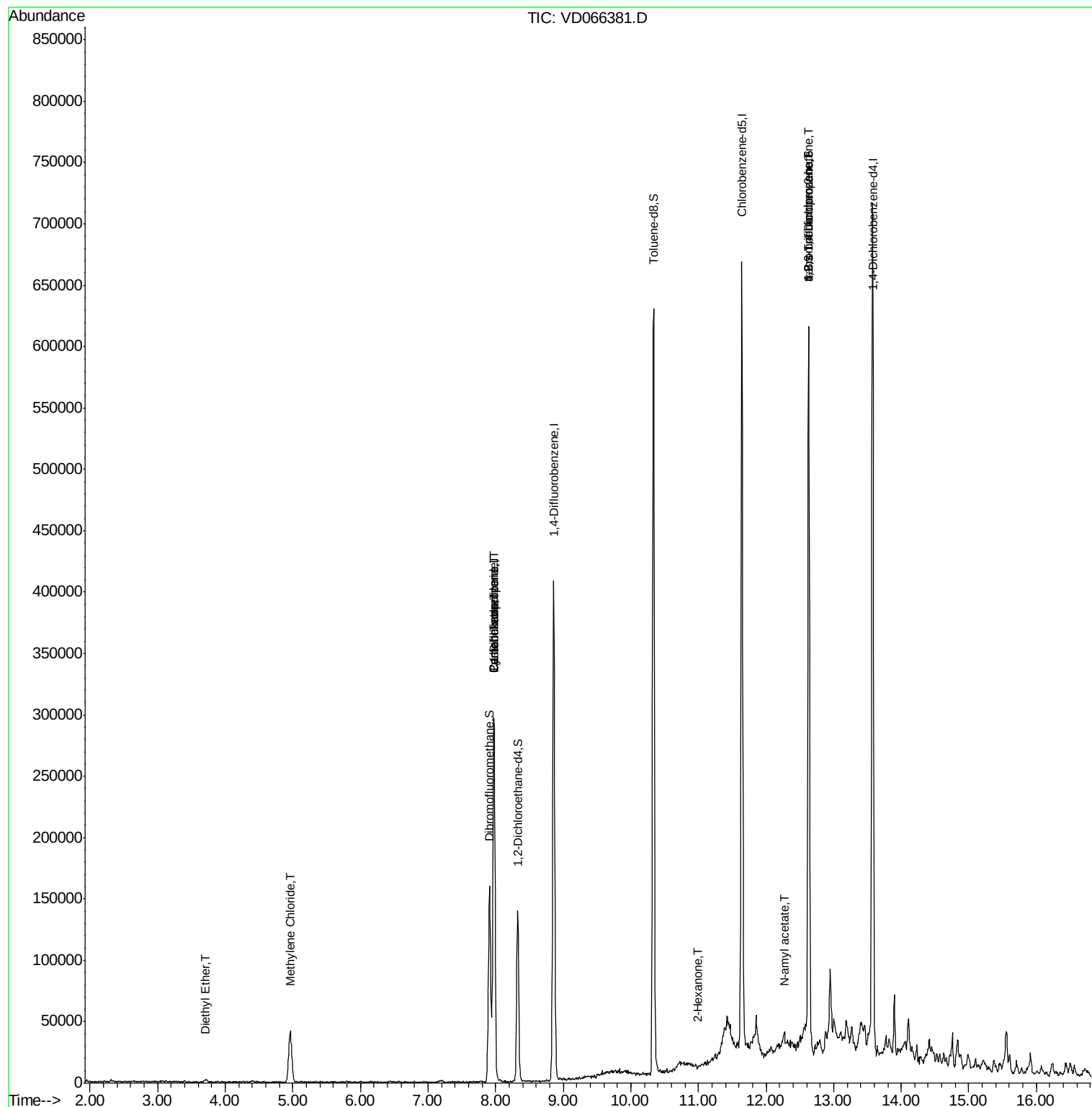
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 3.71  | 74   | 1325     | 1.479     | ug/l   | 95     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 62       | Below Cal | #      | 71     |
| 20) Methylene Chloride         | 4.96  | 84   | 32350    | 10.004    | ug/l   | 99     |
| 31) Cyclohexane                | 7.97  | 56   | 5160     | 1.668     | ug/l # | 49     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 16433    | 5.115     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 23317    | 5.570     | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.98 | 43   | 1050     | 1.403     | ug/l # | 26     |
| 74) N-amyl acetate             | 12.27 | 43   | 2537     | 1.112     | ug/l # | 58     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 91429    | 68.937    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 91429    | 146.332   | ug/l # | 6      |

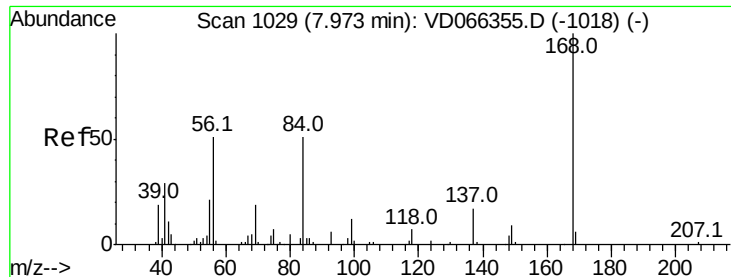
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 25 02:42:18 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

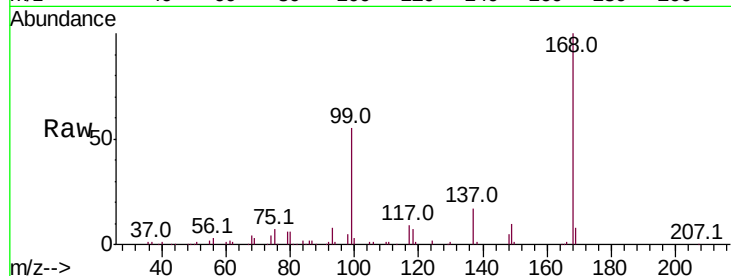
DRUM-COMP

Tot Ion:168 Resp: 227287

Ion Ratio Lower Upper

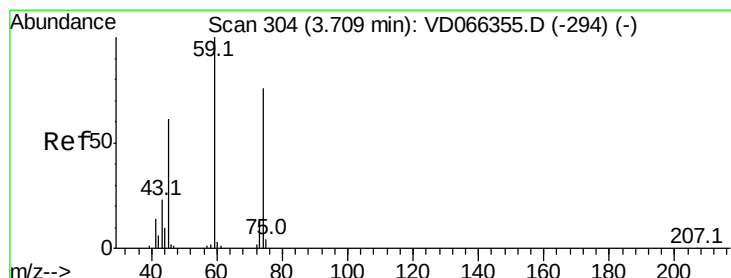
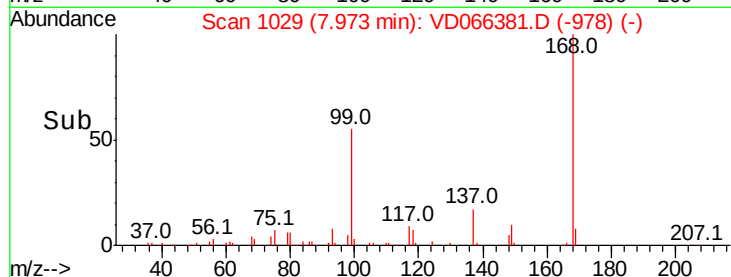
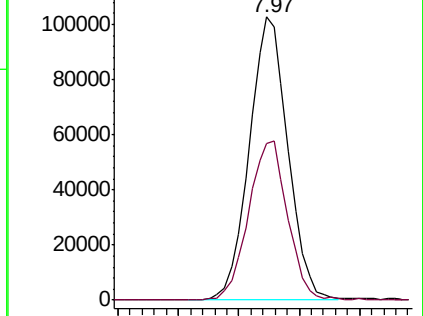
168 100

99 55.2 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#8

Diethyl Ether

Concen: 1.479 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD066381.D

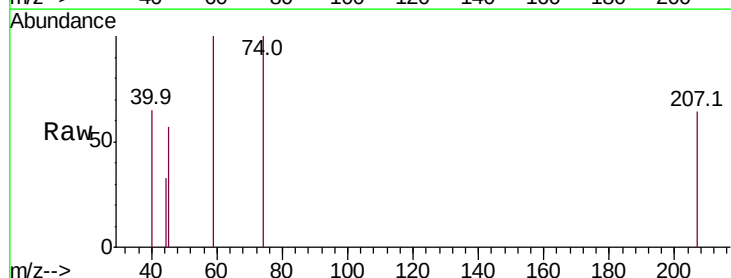
Acq: 24 Aug 2020 15:15

Tgt Ion: 74 Resp: 1325

Ion Ratio Lower Upper

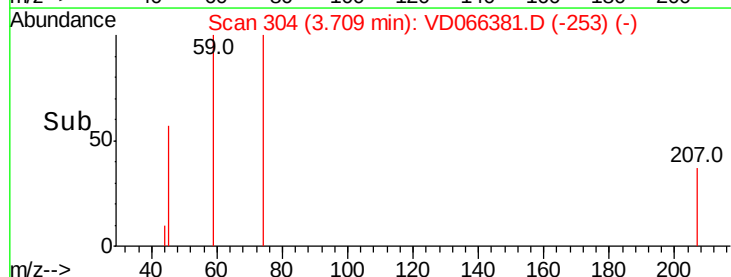
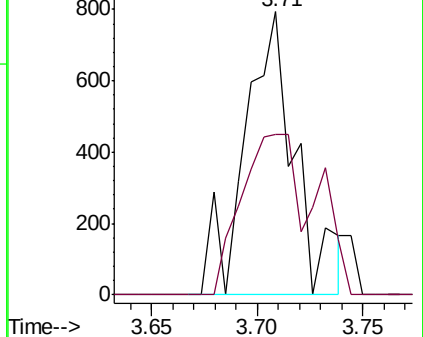
74 100

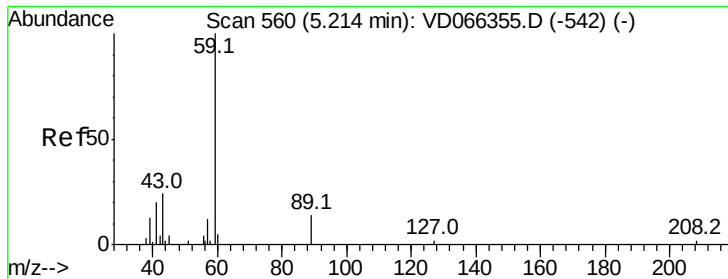
45 80.8 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

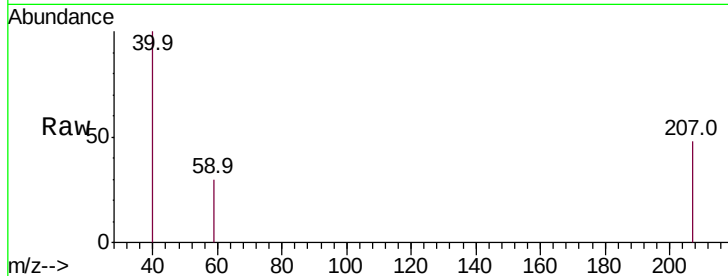




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.22 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: VD066381.D  
Acq: 24 Aug 2020 15:15

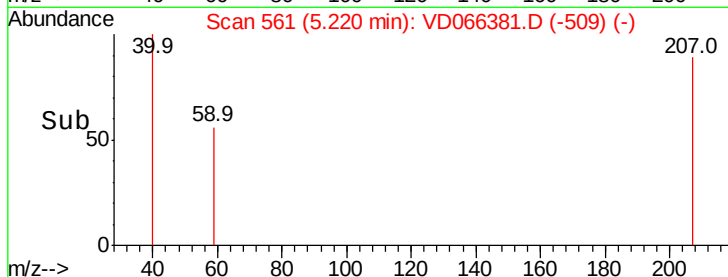
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP

Tot Ion: 59 Resp: 62  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.0 13.4#

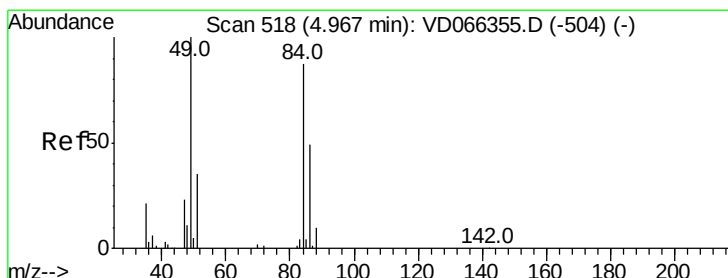


Abundance Ion 59.00 (58.70 to 59.70): VDC  
Ion 57.00 (56.70 to 57.70): VDC

5.22

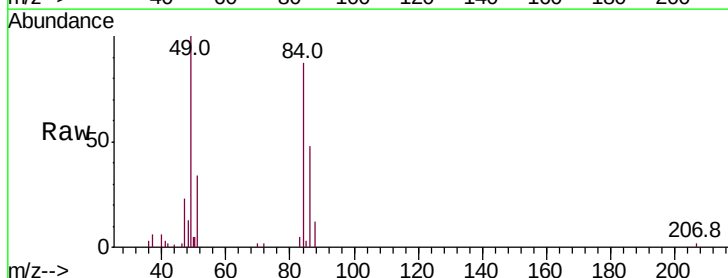


Time-->



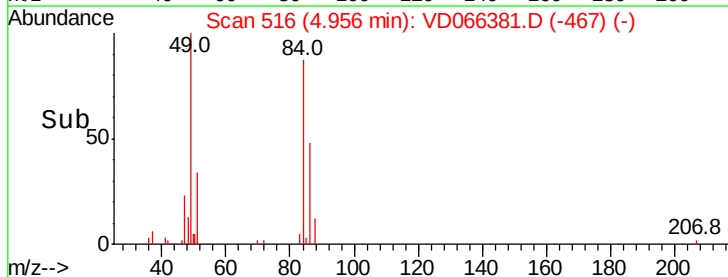
#20  
Methylene Chloride  
Concen: 10.004 ug/l  
RT: 4.96 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VD066381.D  
Acq: 24 Aug 2020 15:15

Tgt Ion: 84 Resp: 32350  
Ion Ratio Lower Upper  
84 100  
49 115.4 92.5 138.7  
51 39.2 32.5 48.7  
86 55.4 45.0 67.6

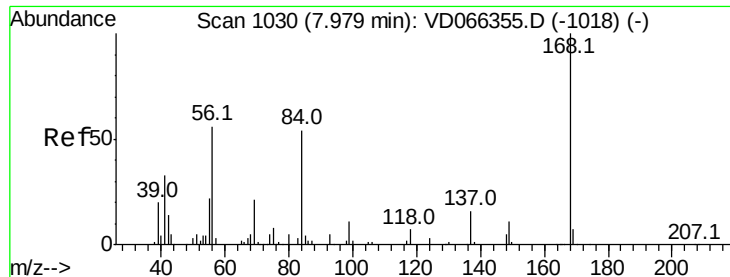


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

4.96



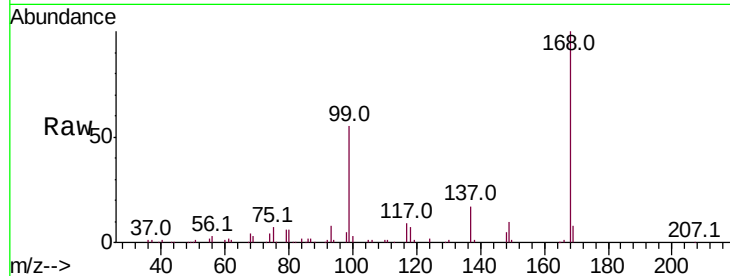
Time-->



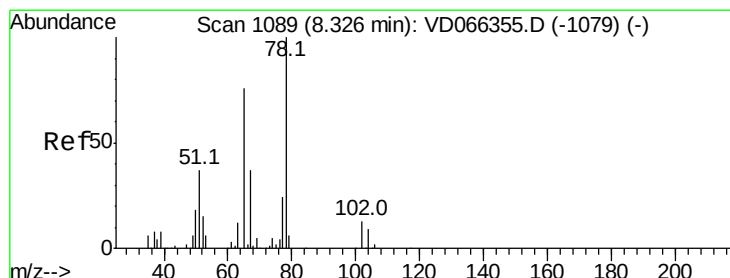
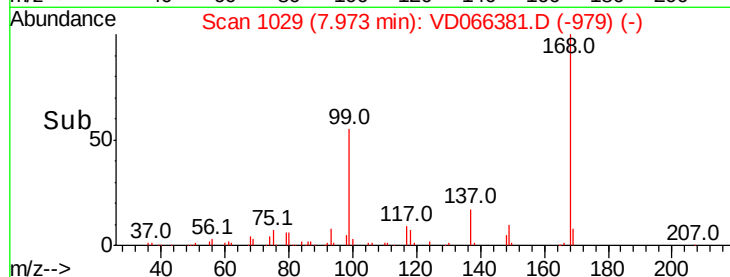
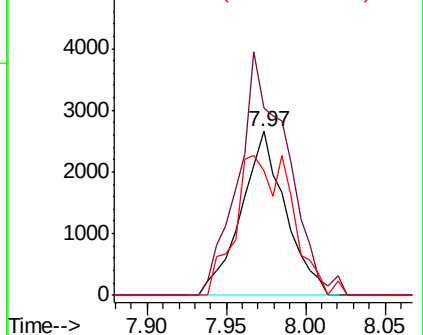
#31  
Cyclohexane  
Concen: 1.668 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD066381.D  
Acq: 24 Aug 2020 15:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP

Tot Ion: 56 Resp: 5160  
Ion Ratio Lower Upper  
56 100  
69 114.1 29.6 44.4#  
84 75.7 76.6 115.0#

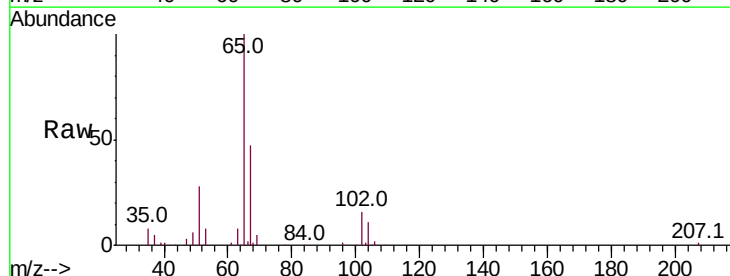


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

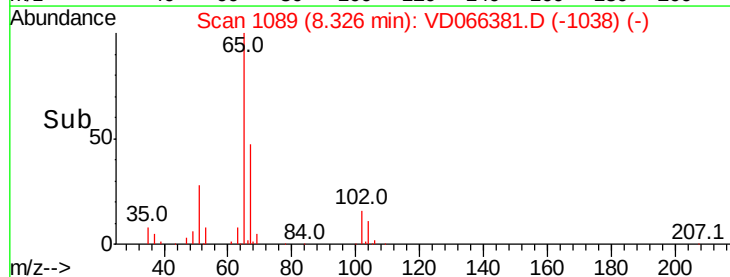
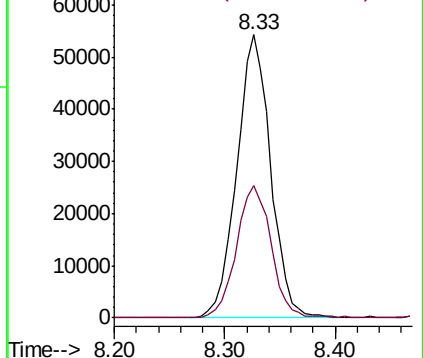


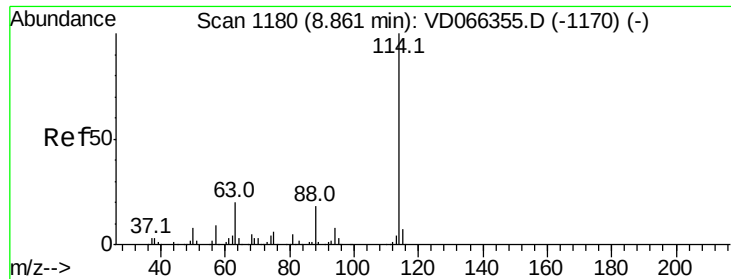
#33  
1,2-Dichloroethane-d4  
Concen: 52.452 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. 0.00 min  
Lab File: VD066381.D  
Acq: 24 Aug 2020 15:15

Tgt Ion: 65 Resp: 116880  
Ion Ratio Lower Upper  
65 100  
67 47.9 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

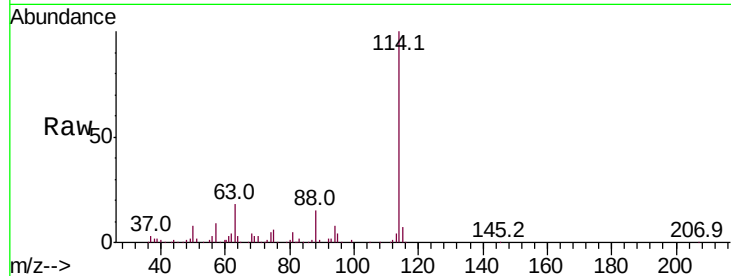




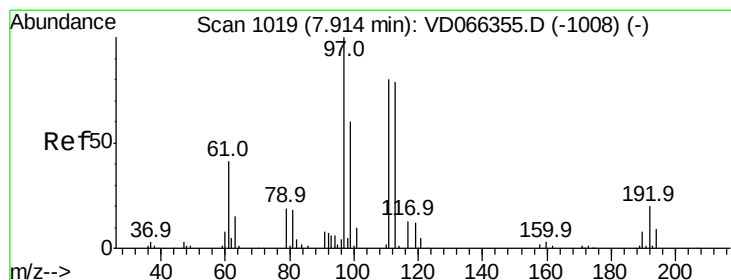
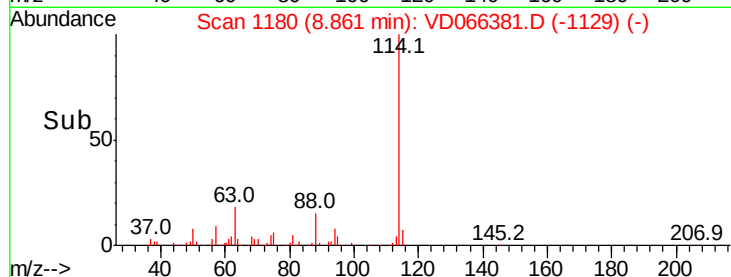
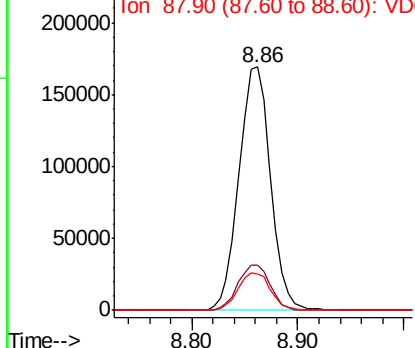
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066381.D  
 Acq: 24 Aug 2020 15:15

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.5  | 0.0   | 40.8  |
| 88      | 14.9  | 0.0   | 35.4  |

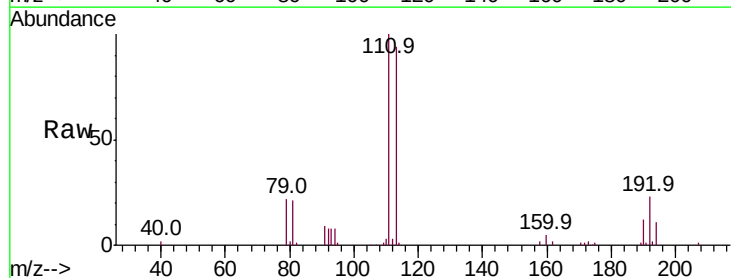


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

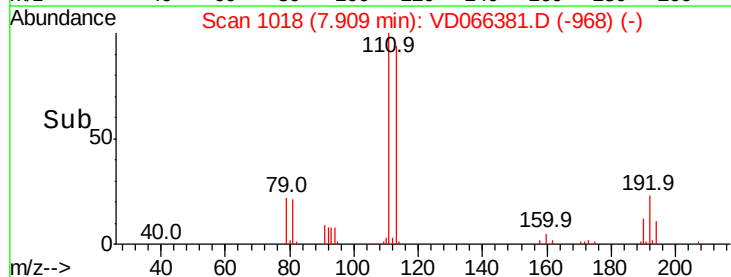
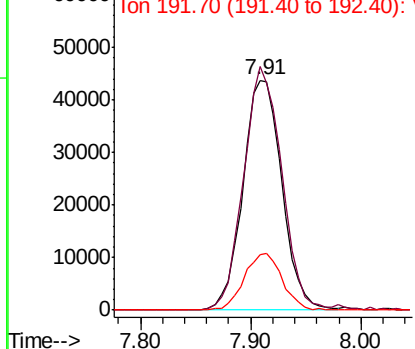


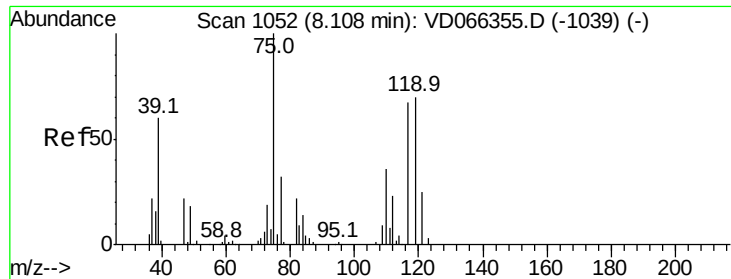
#35  
 Dibromofluoromethane  
 Concen: 49.350 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: VD066381.D  
 Acq: 24 Aug 2020 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 80.3  | 120.5 |
| 192     | 23.9  | 19.0  | 28.6  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.115 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

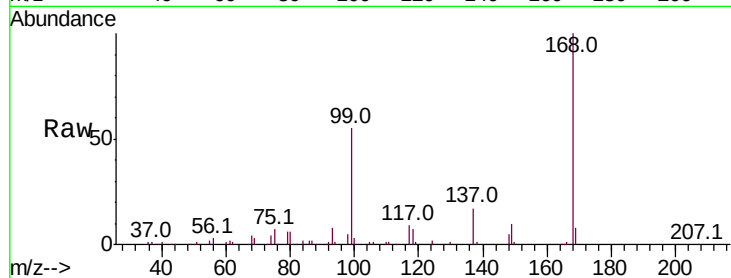
Tot Ion: 75 Resp: 16433

Ion Ratio Lower Upper

75 100

110 9.2 18.7 56.1#

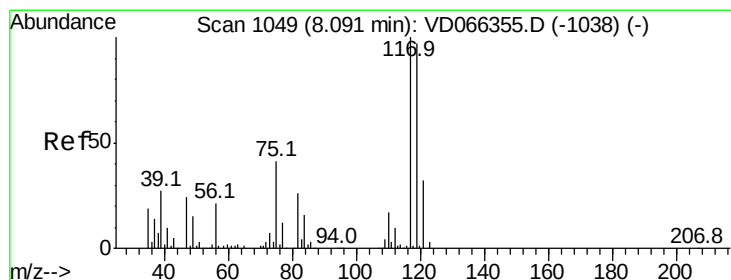
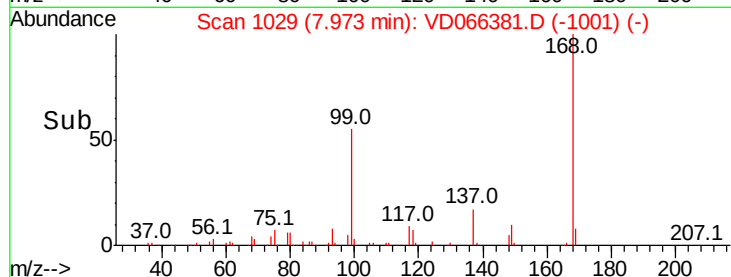
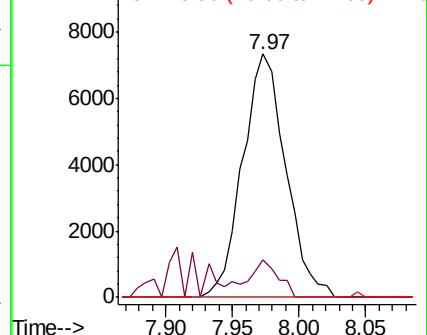
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.570 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

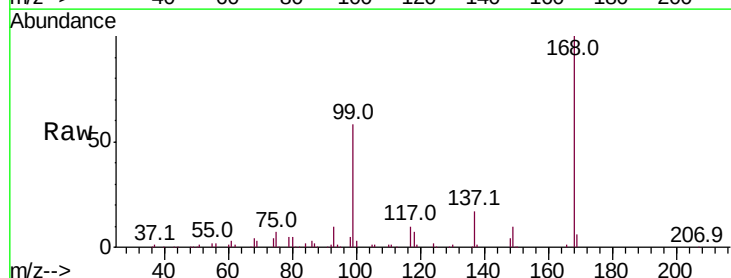
Tgt Ion: 117 Resp: 23317

Ion Ratio Lower Upper

117 100

119 7.4 77.2 115.8#

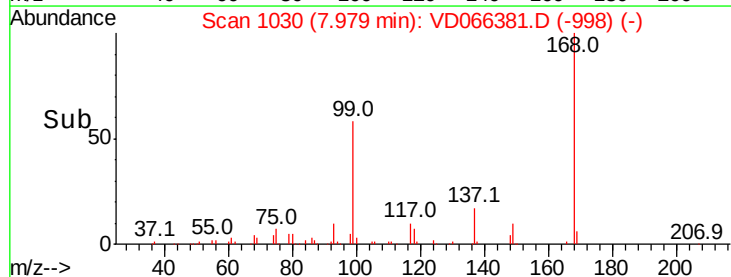
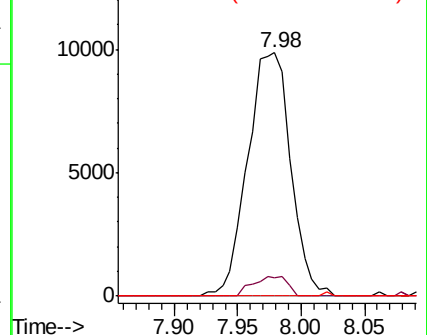
121 0.0 25.8 38.8#

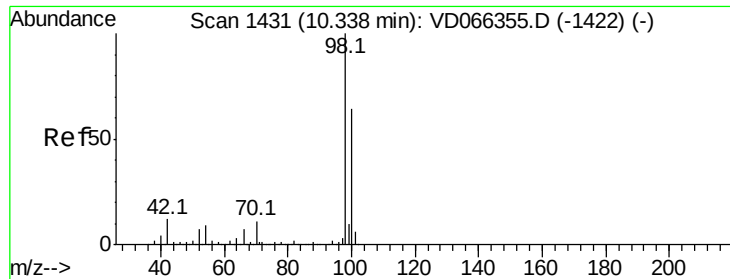


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 53.067 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

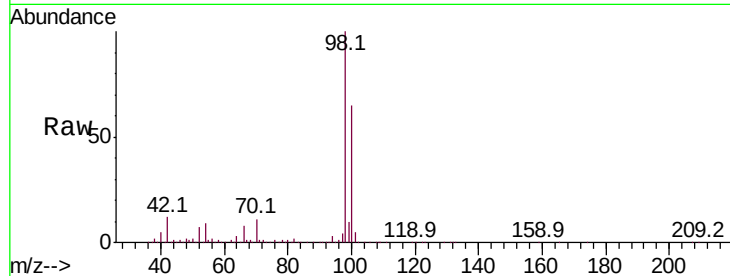
DRUM-COMP

Tot Ion: 98 Resp: 427530

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

250000

200000

150000

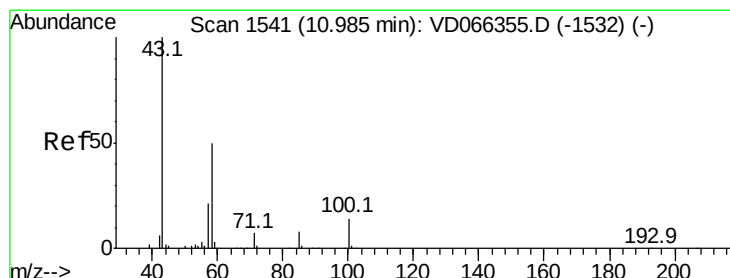
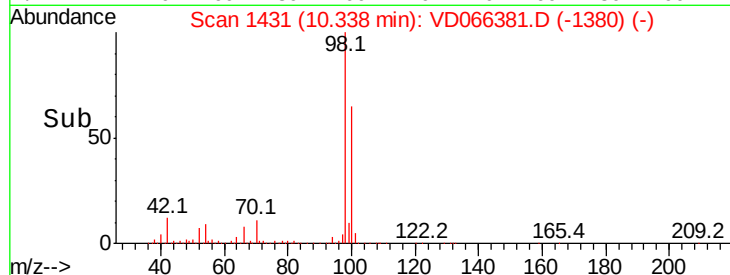
100000

50000

0

Time-->

10.30 10.40



#59

2-Hexanone

Concen: 1.403 ug/l

RT: 10.98 min Scan# 1541

Delta R.T. 0.00 min

Lab File: VD066381.D

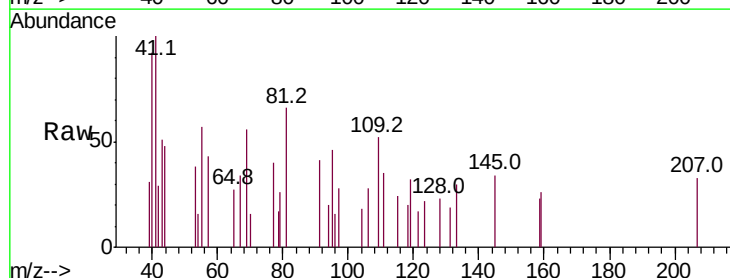
Acq: 24 Aug 2020 15:15

Tgt Ion: 43 Resp: 1050

Ion Ratio Lower Upper

43 100

58 0.0 26.3 78.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

600

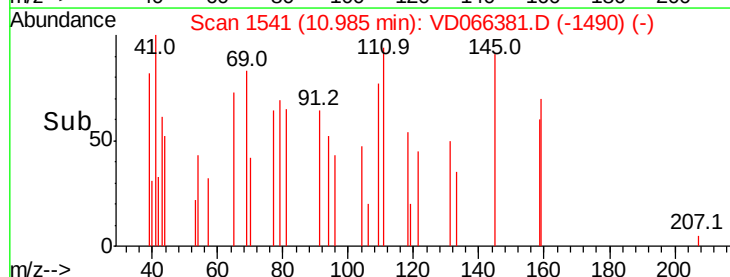
400

200

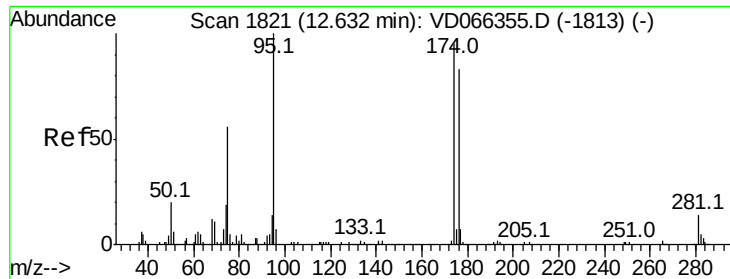
0

Time-->

10.95 11.00







#62

4-Bromofluorobenzene

Concen: 58.445 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

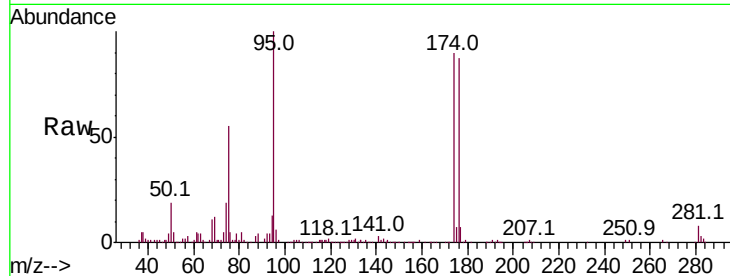
Tot Ion: 95 Resp: 167082

Ion Ratio Lower Upper

95 100

174 95.8 0.0 183.4

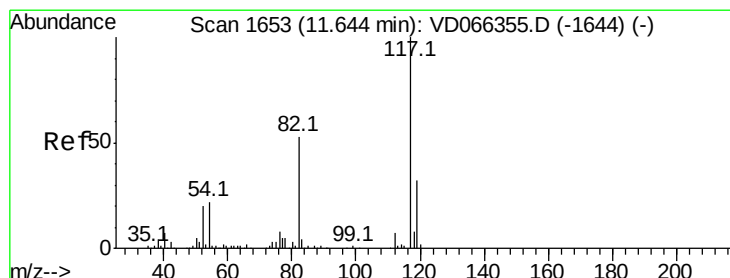
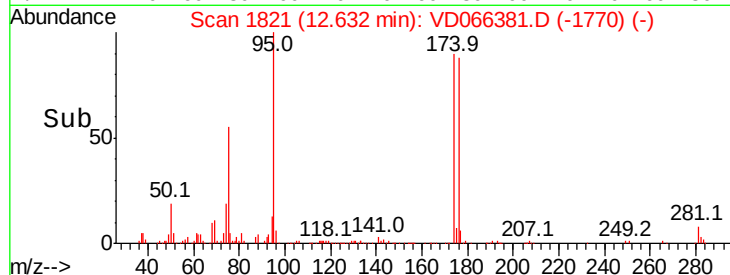
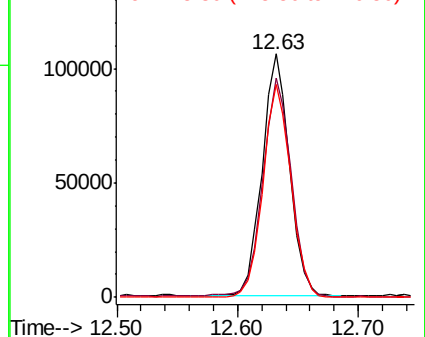
176 89.8 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

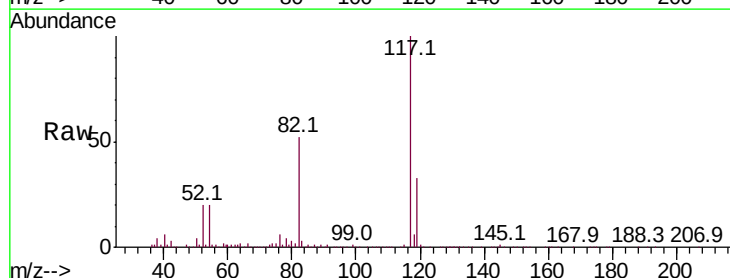
Tgt Ion: 117 Resp: 356798

Ion Ratio Lower Upper

117 100

82 52.1 42.8 64.2

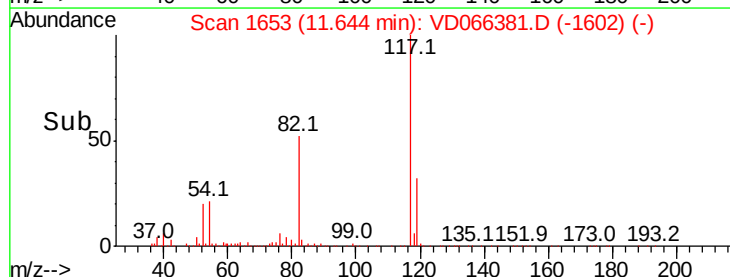
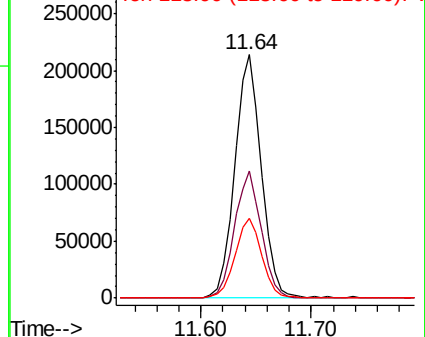
119 32.4 25.8 38.8

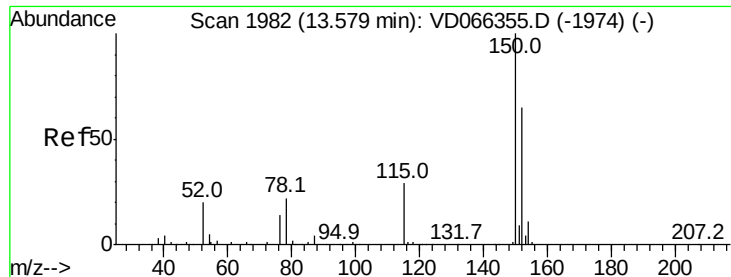


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP

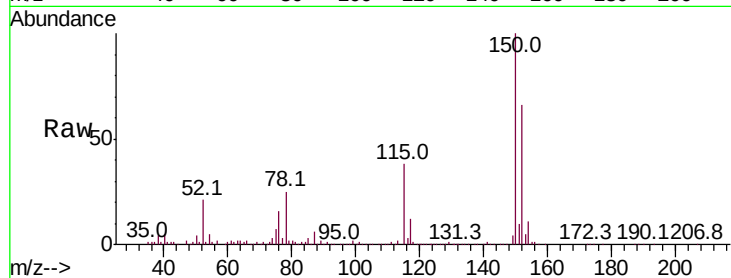
Tot Ion:152 Resp: 188522

Ion Ratio Lower Upper

152 100

115 58.7 28.3 85.0

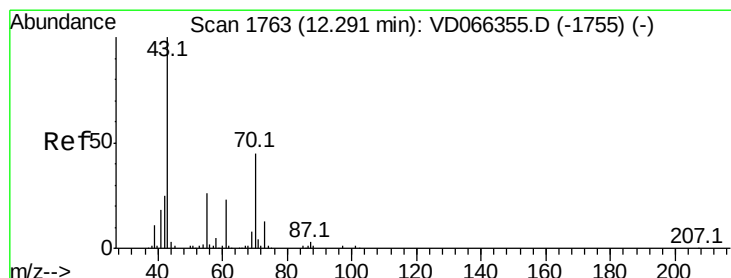
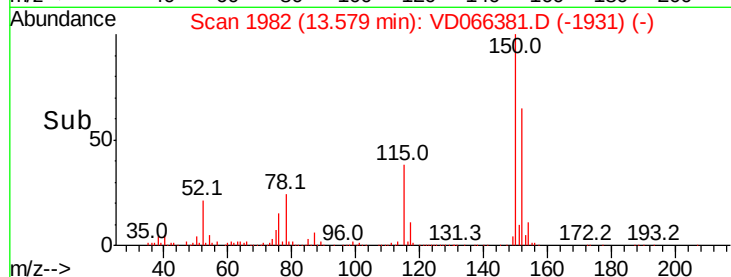
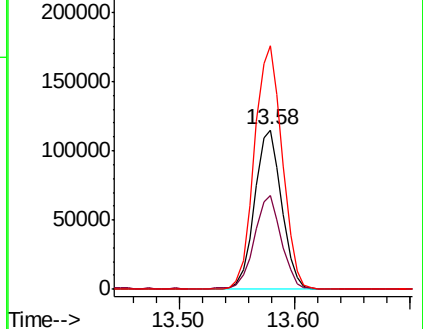
150 156.4 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-amyl acetate

Concen: 1.112 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Tgt Ion: 43 Resp: 2537

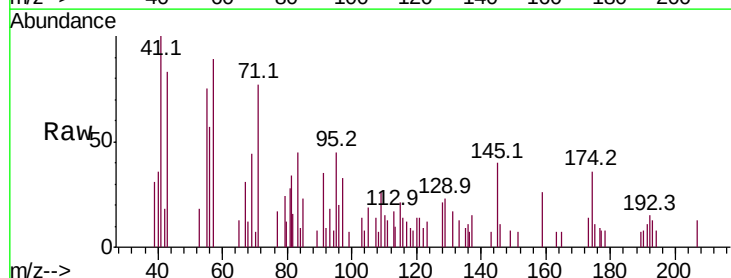
Ion Ratio Lower Upper

43 100

70 22.5 34.8 52.2#

55 0.0 20.3 30.5#

61 0.0 19.0 28.6#

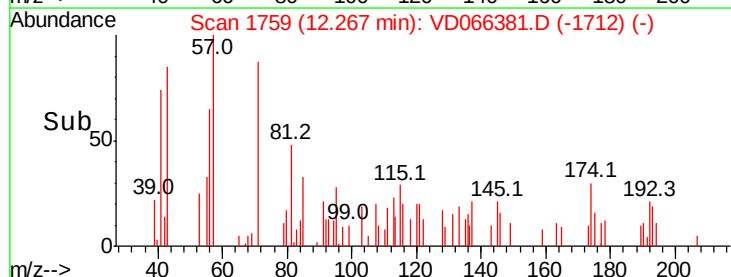
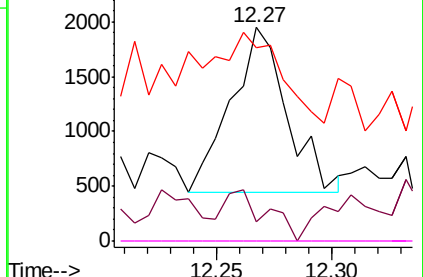


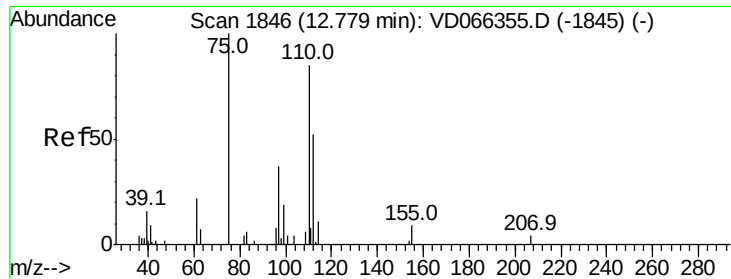
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 68.937 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

Instrument :

MSVOA\_D

ClientSampleId :

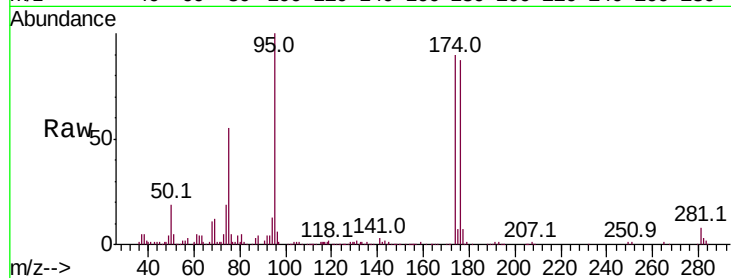
DRUM-COMP

Tot Ion: 75 Resp: 91429

Ion Ratio Lower Upper

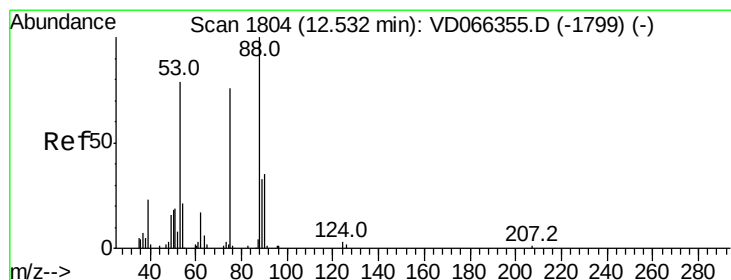
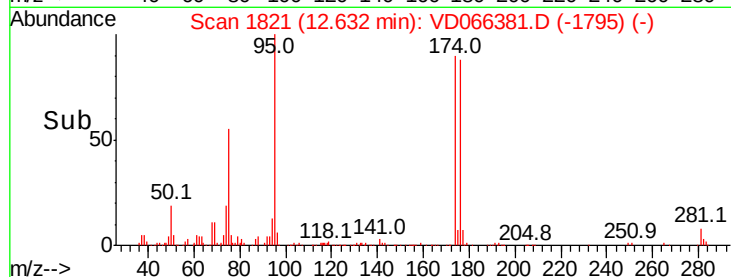
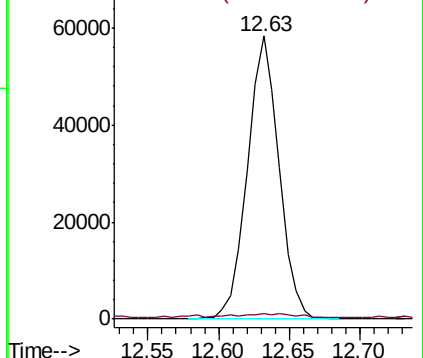
75 100

77 1.8 182.9 548.9#



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: 146.332 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066381.D

Acq: 24 Aug 2020 15:15

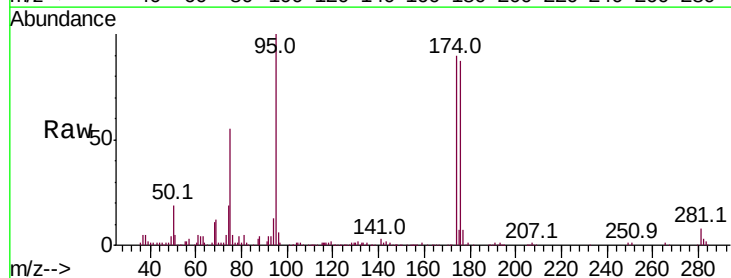
Tgt Ion: 75 Resp: 91429

Ion Ratio Lower Upper

75 100

53 0.1 87.4 131.2#

89 0.2 39.4 59.0#



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

