

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081720\  
 Data File : VD066268.D  
 Acq On : 17 Aug 2020 20:00  
 Operator : VA/SY  
 Sample : L3691-04RE  
 Misc : 7.95G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S605-M-SO-1-1.5-081320RE

Quant Time: Aug 18 07:54:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

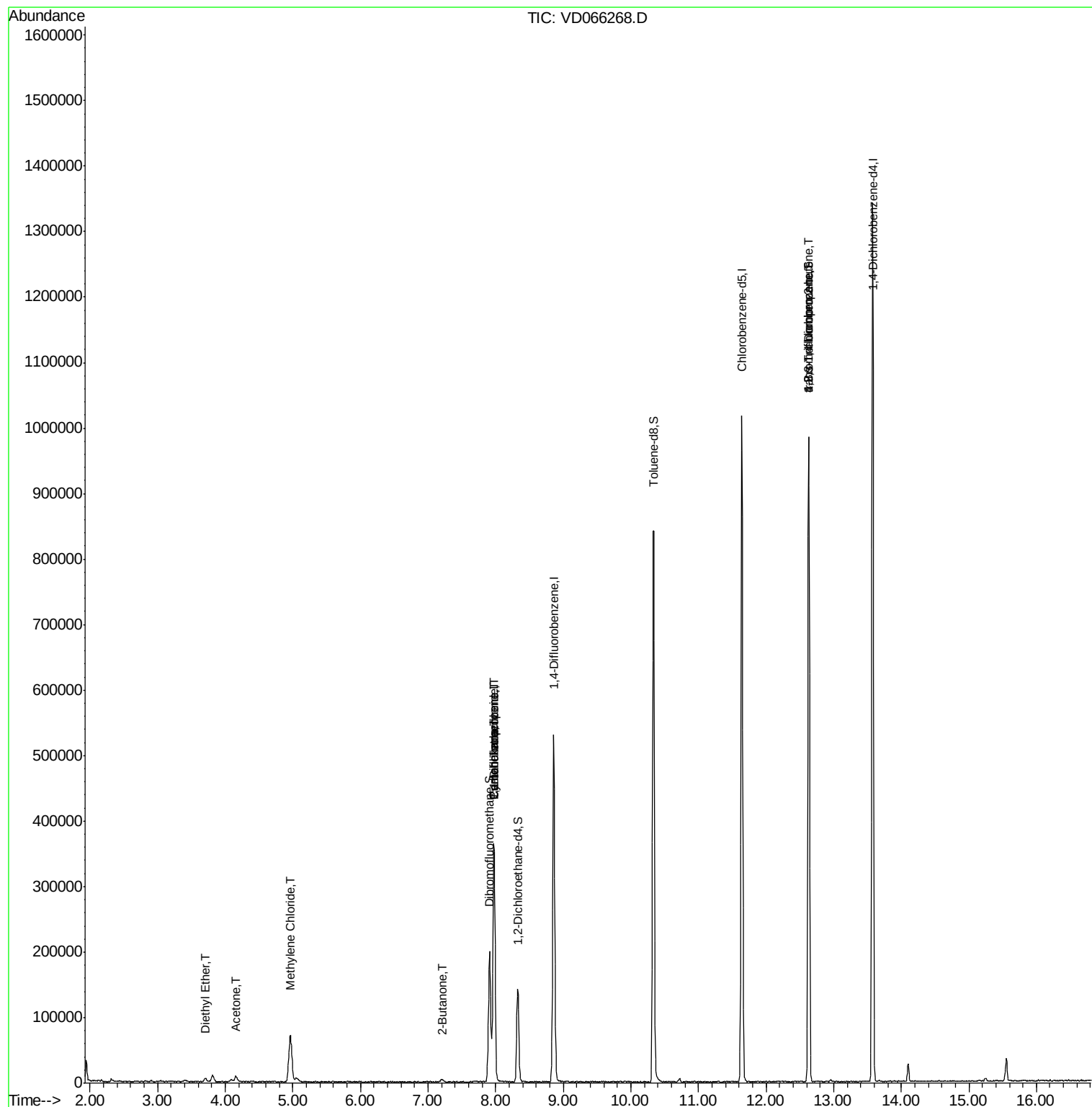
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.97  | 168  | 288666   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.86  | 114  | 464299   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 604467   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 369453   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 119499   | 46.40     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 92.80%  |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 140178   | 47.66     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.32%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 585101   | 53.91     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 107.82% |          |
| 62) 4-Bromofluorobenzene       | 12.63 | 95   | 313317   | 80.08     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 160.16% |          |
| Target Compounds               |       |      |          |           |         |          |
| 8) Diethyl Ether               | 3.71  | 74   | 2802     | 2.175     | ug/l    | 96       |
| 11) Tert butyl alcohol         | 5.23  | 59   | 156      | Below Cal | #       | 76       |
| 16) Acetone                    | 4.16  | 43   | 15095    | 30.891    | ug/l    | 89       |
| 20) Methylene Chloride         | 4.96  | 84   | 56092    | 16.900    | ug/l    | 96       |
| 25) 2-Butanone                 | 7.22  | 43   | 3280     | 4.564     | ug/l    | 94       |
| 31) Cyclohexane                | 7.97  | 56   | 5426     | 1.203     | ug/l #  | 39       |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 19701    | 4.515     | ug/l #  | 51       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 27271    | 5.605     | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 159912   | 51.903    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 159912   | 114.735   | ug/l #  | 13       |

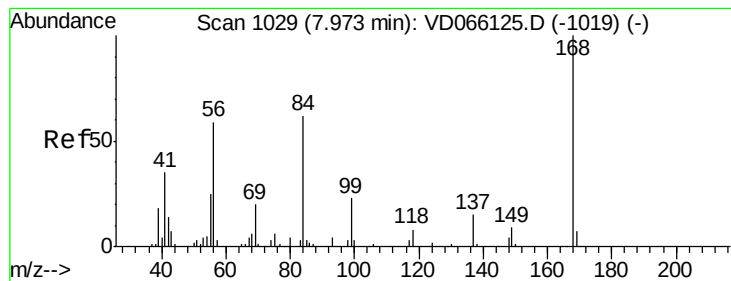
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081720\  
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S605-M-SO-1-1.5-081320RE

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Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 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: VD066268.D

Acq: 17 Aug 2020 20:00

Instrument :

MSVOA\_D

ClientSampleId :

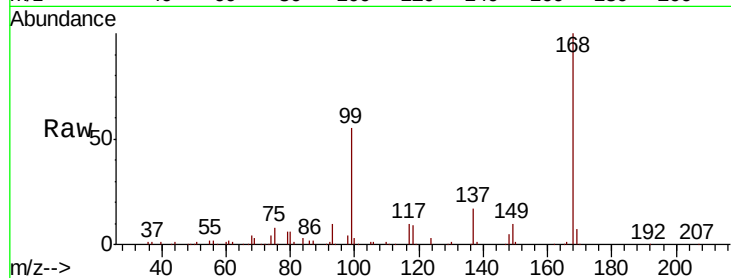
S605-M-SO-1-1.5-081320RE

Tot Ion:168 Resp: 288666

Ion Ratio Lower Upper

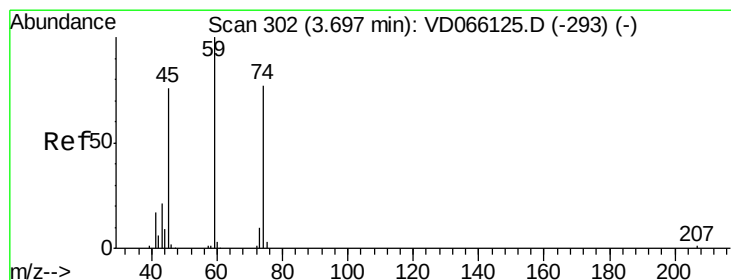
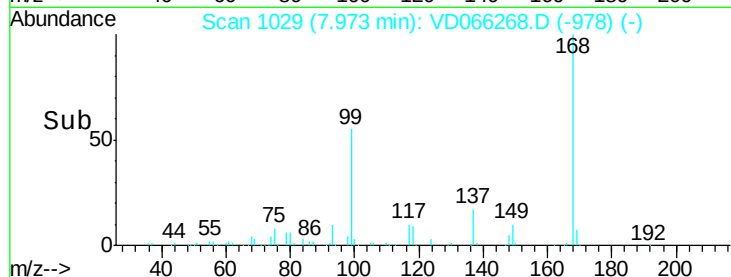
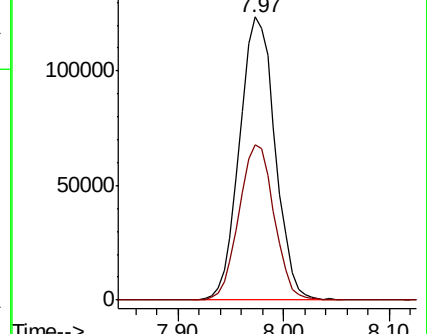
168 100

99 55.0 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#8

Diethyl Ether

Concen: 2.175 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.01 min

Lab File: VD066268.D

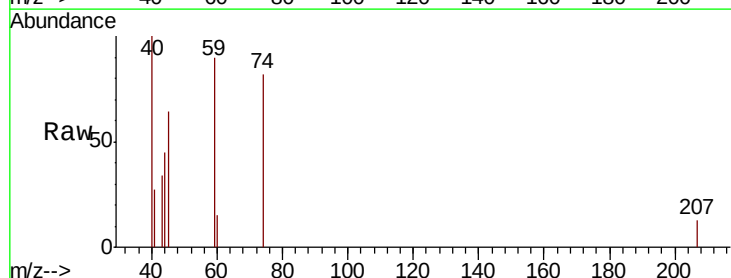
Acq: 17 Aug 2020 20:00

Tgt Ion: 74 Resp: 2802

Ion Ratio Lower Upper

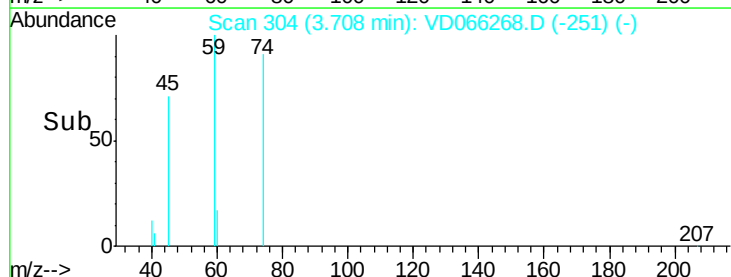
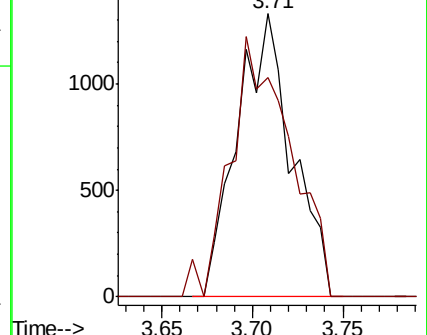
74 100

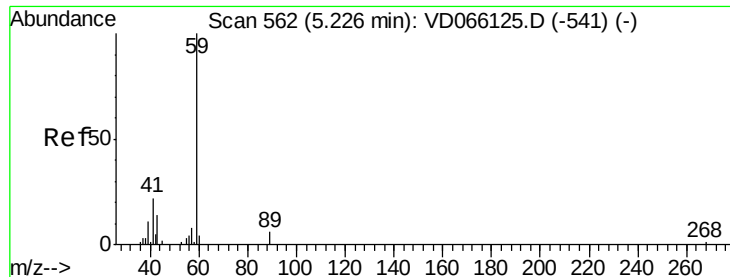
45 100.3 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

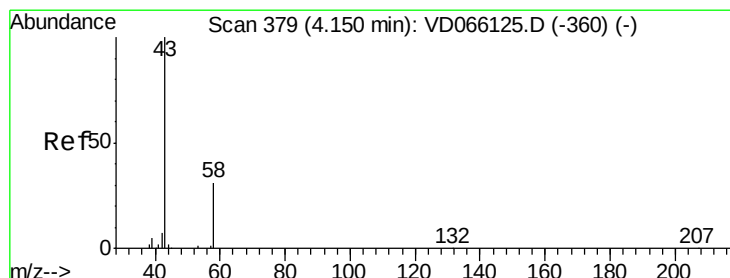
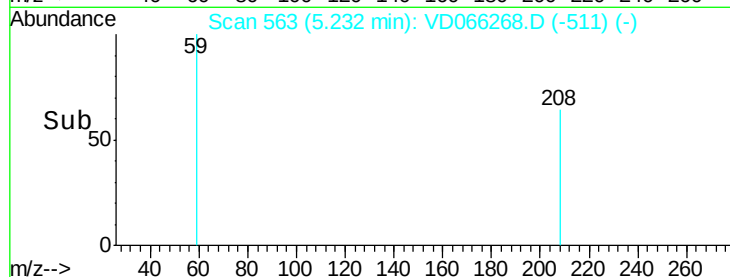
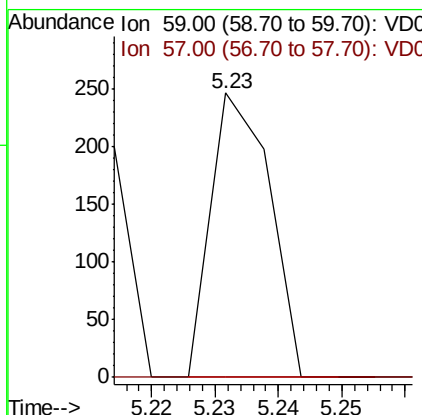
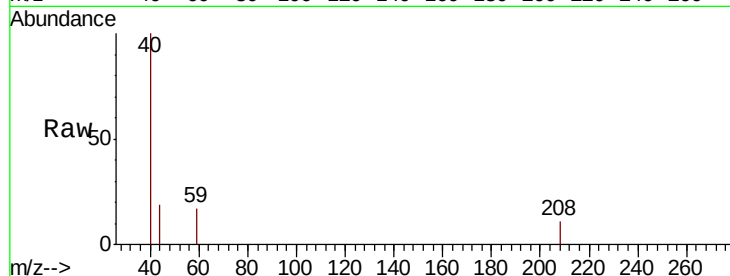




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.23 min Scan# 563  
Delta R.T. 0.01 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

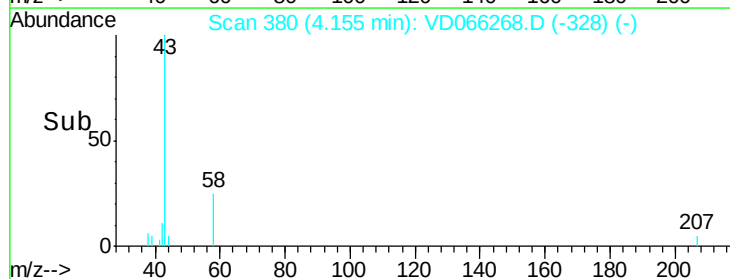
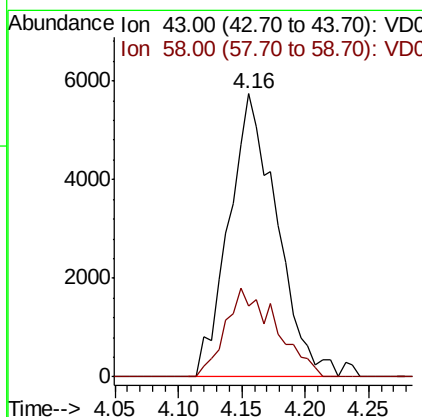
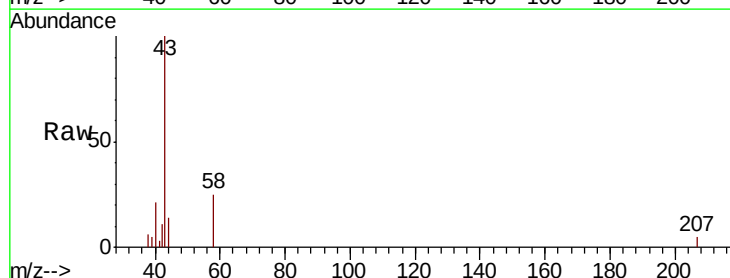
Instrument :  
MSVOA\_D  
ClientSampleId :  
S605-M-SO-1-1.5-081320RE

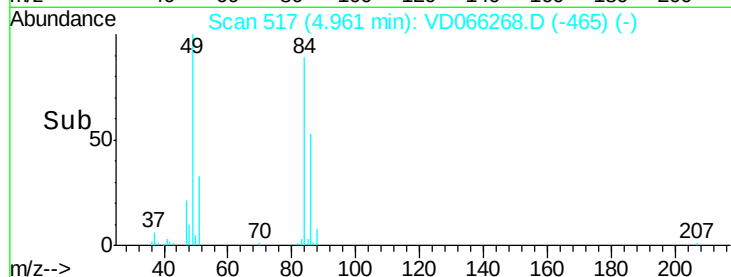
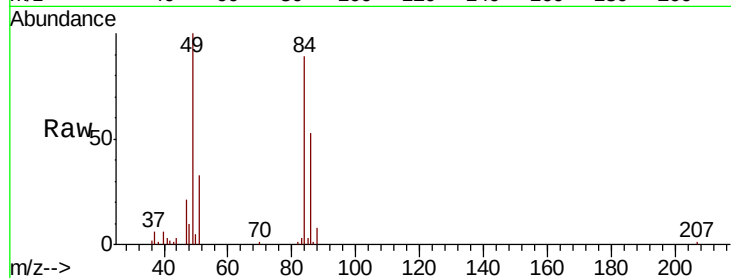
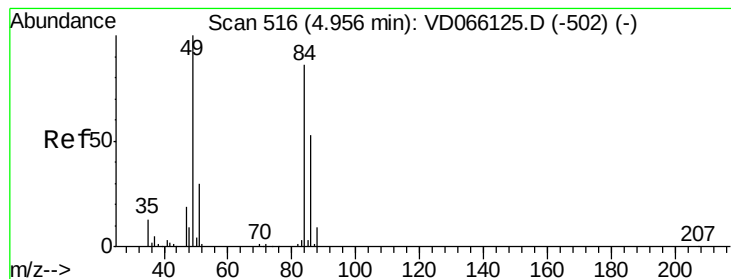
Tot Ion: 59 Resp: 156  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.0 10.4#



#16  
Acetone  
Concen: 30.891 ug/l  
RT: 4.16 min Scan# 380  
Delta R.T. 0.01 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

Tgt Ion: 43 Resp: 15095  
Ion Ratio Lower Upper  
43 100  
58 24.9 24.7 37.1





#20

Methylene Chloride

Concen: 16.900 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.01 min

Lab File: VD066268.D

Acq: 17 Aug 2020 20:00

Instrument :

MSVOA\_D

ClientSampleId :

S605-M-SO-1-1.5-081320RE

Tot Ion: 84 Resp: 56092

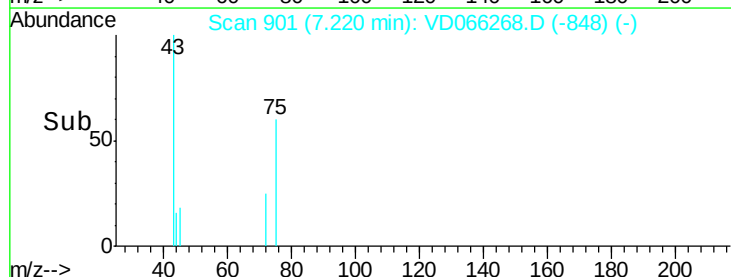
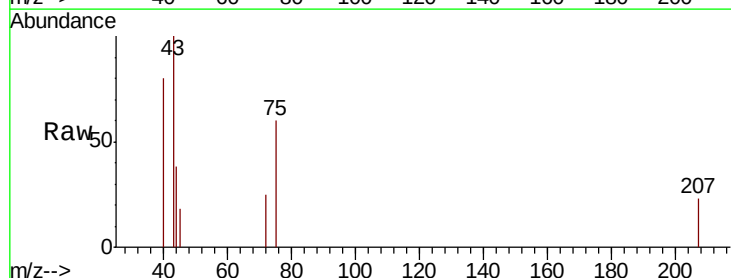
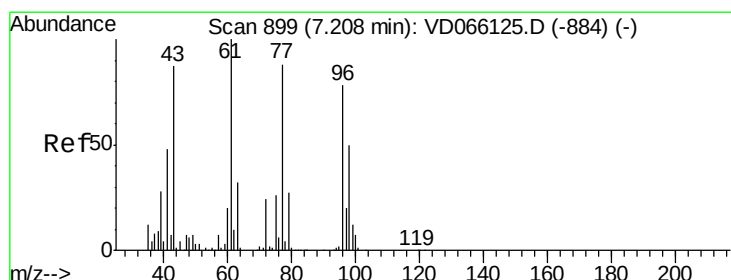
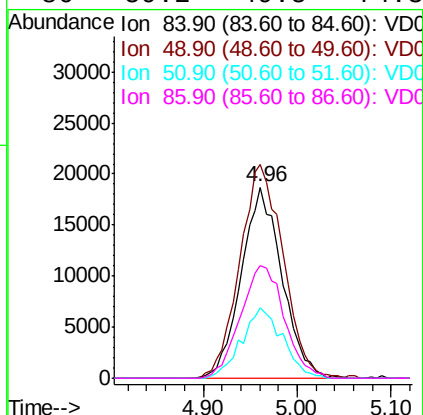
Ion Ratio Lower Upper

84 100

49 112.0 93.5 140.3

51 36.9 28.2 42.4

86 59.2 49.5 74.3



#25

2-Butanone

Concen: 4.564 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD066268.D

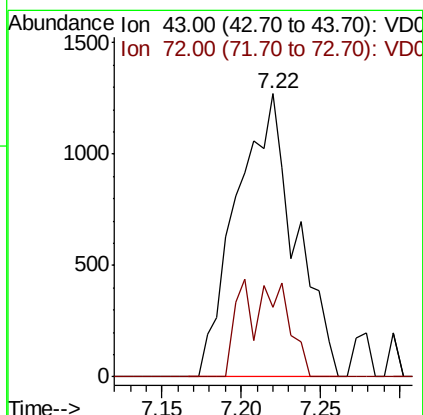
Acq: 17 Aug 2020 20:00

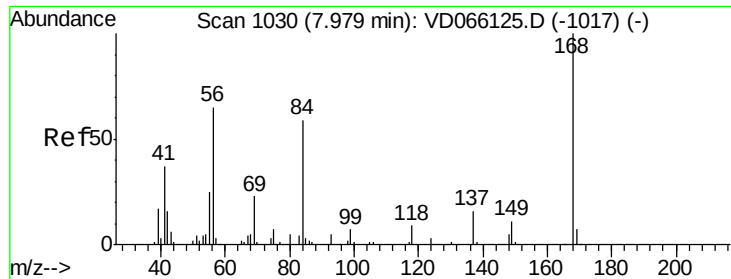
Tgt Ion: 43 Resp: 3280

Ion Ratio Lower Upper

43 100

72 24.6 22.2 33.2





#31

Cyclohexane

Concen: 1.203 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.01 min

Lab File: VD066268.D

Acq: 17 Aug 2020 20:00

Instrument :

MSVOA\_D

ClientSampleId :

S605-M-SO-1-1.5-081320RE

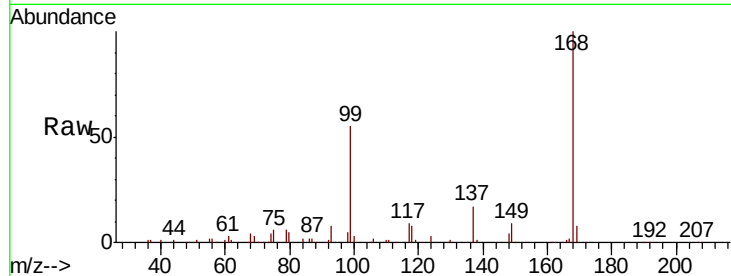
Tot Ion: 56 Resp: 5426

Ion Ratio Lower Upper

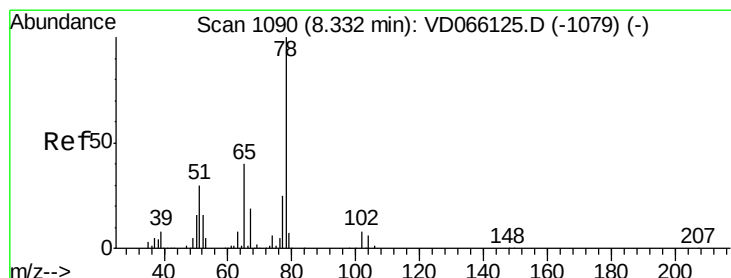
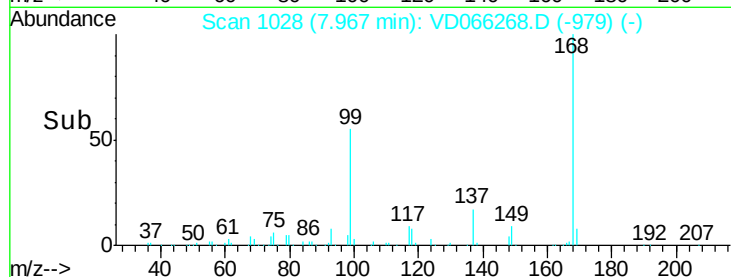
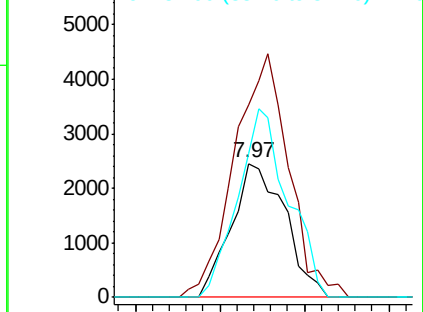
56 100

69 137.5 28.8 43.2#

84 107.3 73.0 109.6



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: 46.401 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066268.D

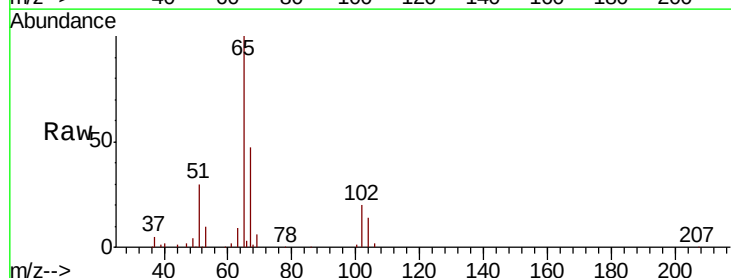
Acq: 17 Aug 2020 20:00

Tgt Ion: 65 Resp: 119499

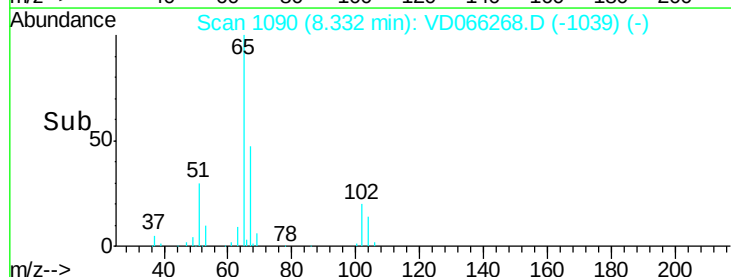
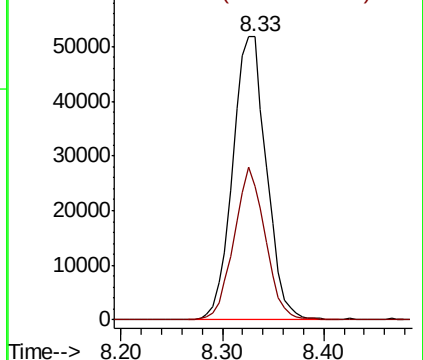
Ion Ratio Lower Upper

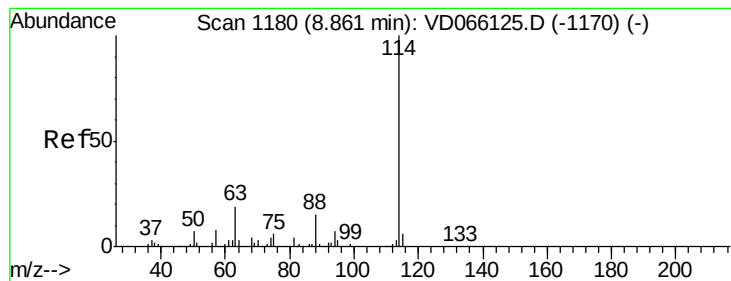
65 100

67 50.1 0.0 104.6



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: VD066268.D

Acq: 17 Aug 2020 20:00

Instrument :

MSVOA\_D

ClientSampleId :

S605-M-SO-1-1.5-081320RE

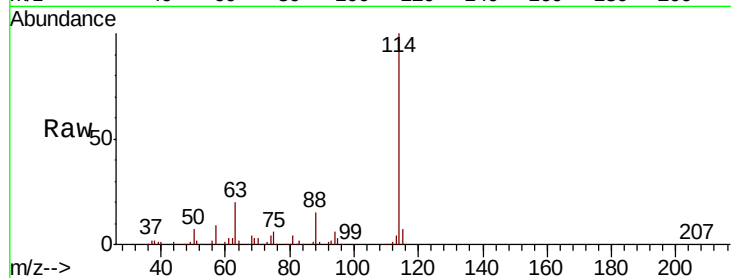
Tot Ion:114 Resp: 464299

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.6

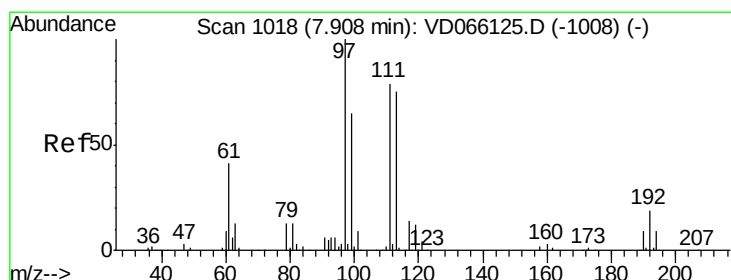
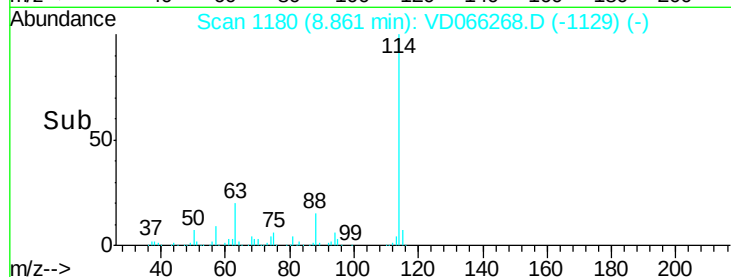
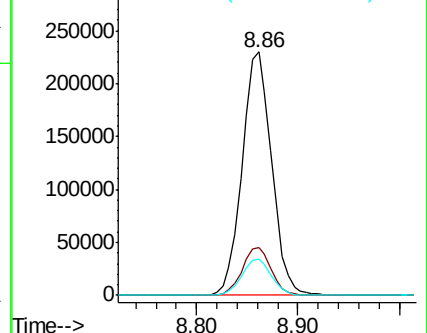
88 14.9 0.0 30.0



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: 47.659 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066268.D

Acq: 17 Aug 2020 20:00

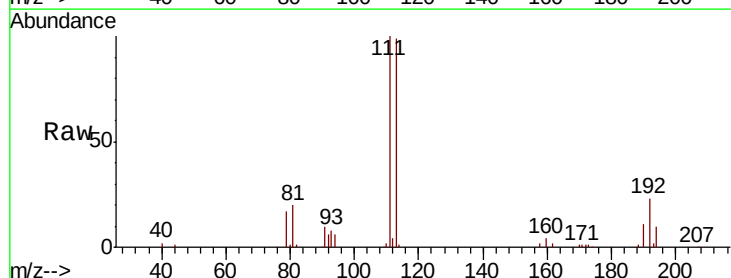
Tgt Ion:113 Resp: 140178

Ion Ratio Lower Upper

113 100

111 103.1 80.7 121.1

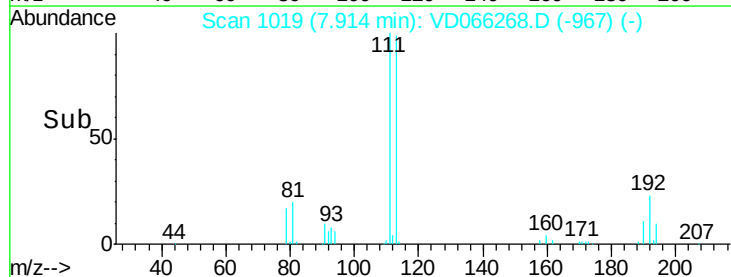
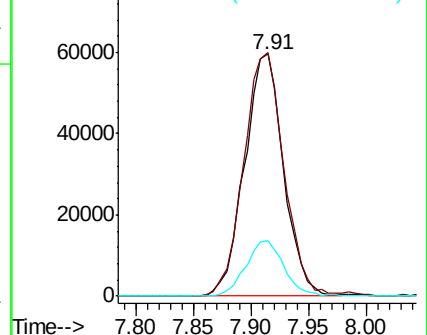
192 22.6 18.4 27.6

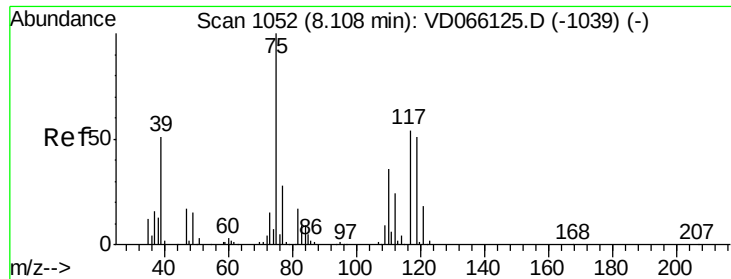


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

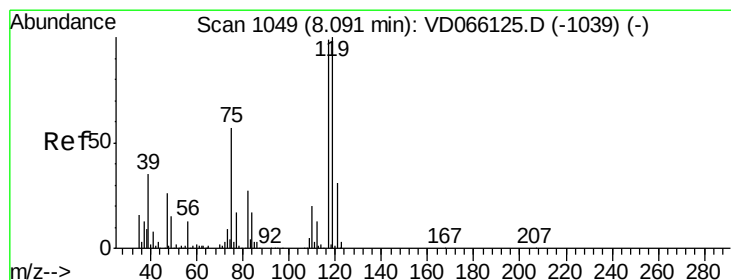
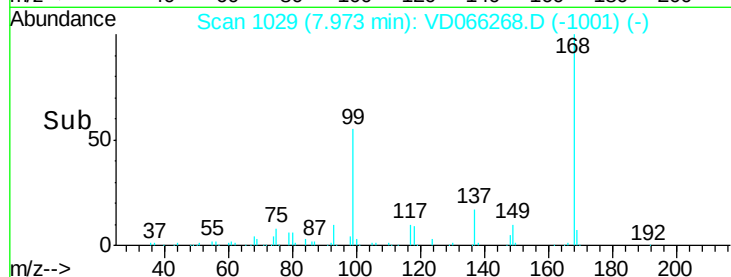
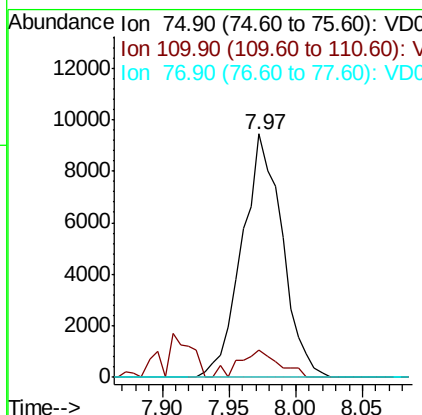
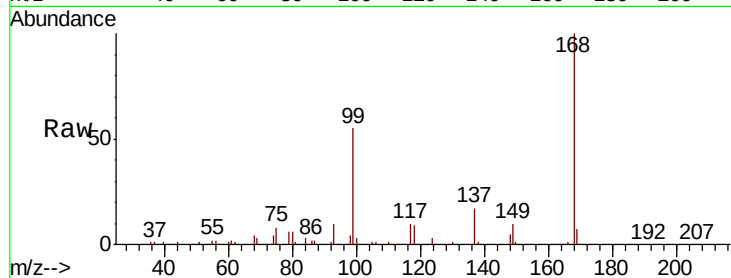




#36  
 1,1-Dichloropropene  
 Concen: 4.515 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066268.D  
 Acq: 17 Aug 2020 20:00

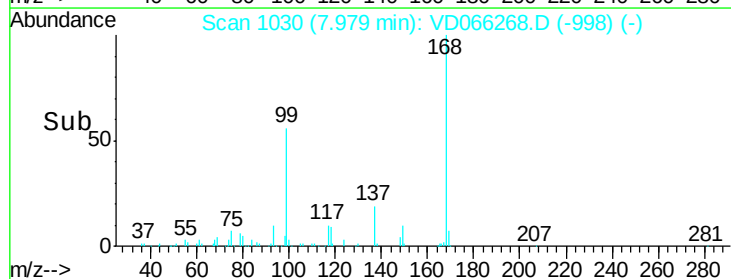
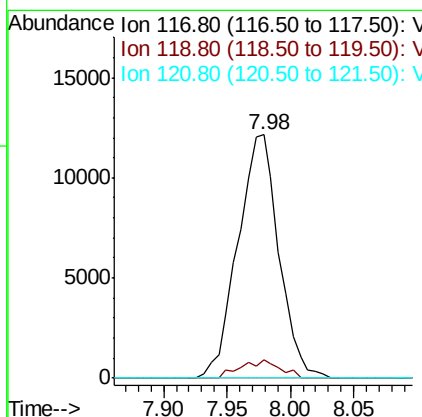
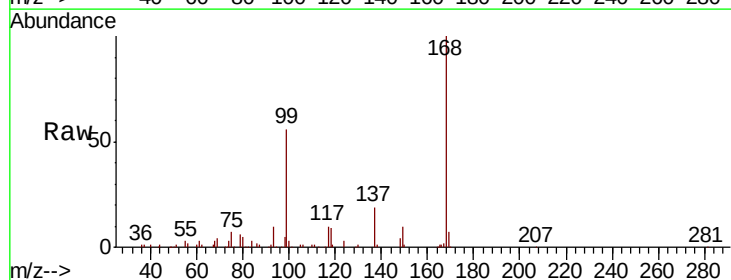
Instrument :  
 MSVOA\_D  
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 S605-M-SO-1-1.5-081320RE

| Tot Ion   | 75    | Resp  | 19701 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 11.0  | 18.8  | 56.3# |
| 77        | 0.0   | 24.2  | 36.2# |

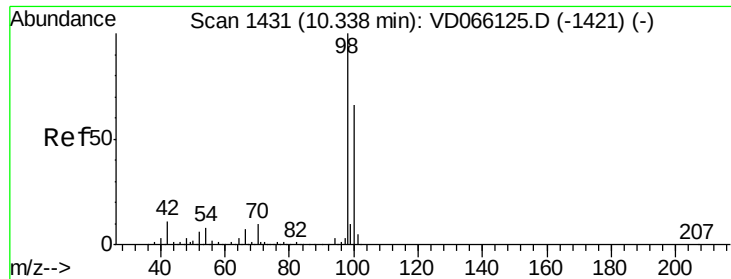


#38  
 Carbon Tetrachloride  
 Concen: 5.605 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.11 min  
 Lab File: VD066268.D  
 Acq: 17 Aug 2020 20:00

| Tgt Ion   | 117   | Resp  | 27271  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 7.3   | 81.0  | 121.4# |
| 121       | 0.0   | 24.8  | 37.2#  |



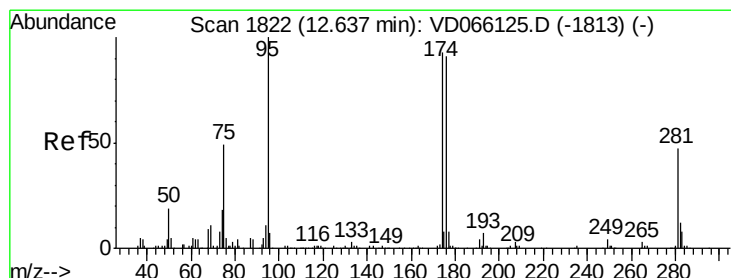
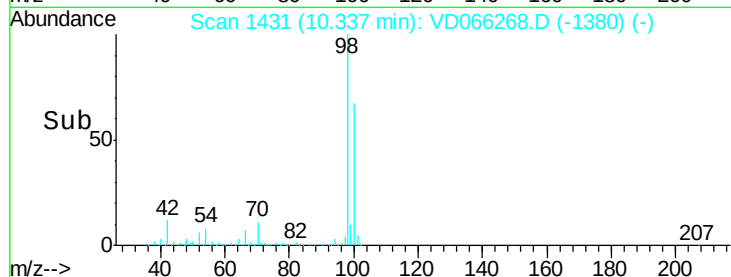
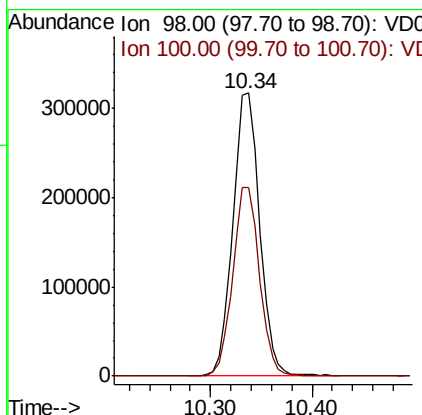
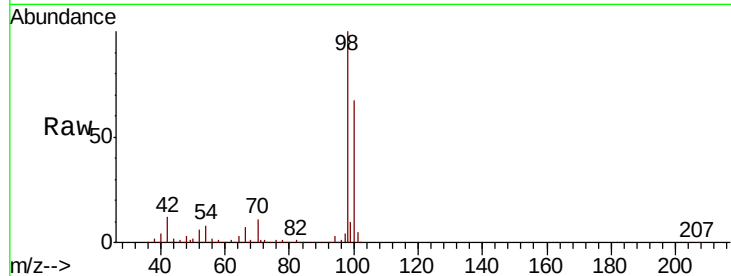




#50  
Toluene-d8  
Concen: 53.906 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

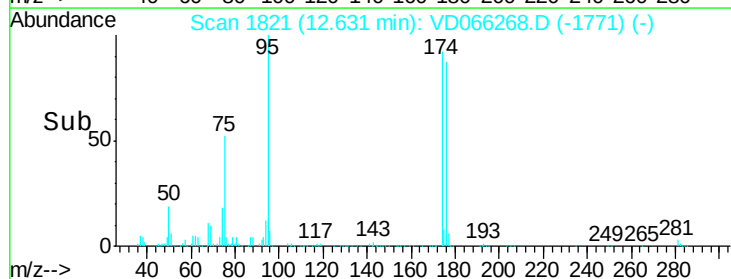
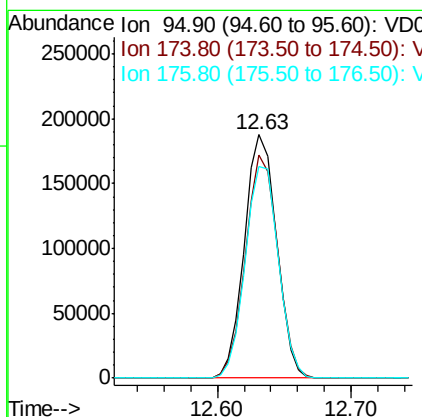
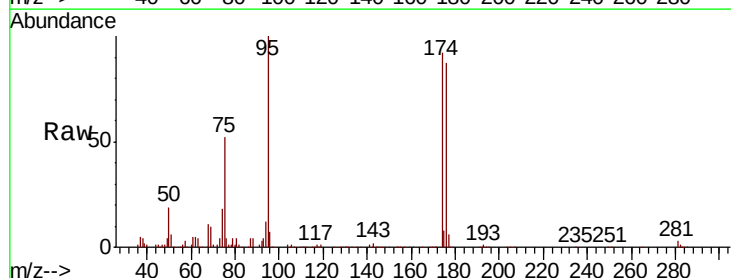
Instrument :  
MSVOA\_D  
ClientSampleId :  
S605-M-SO-1-1.5-081320RE

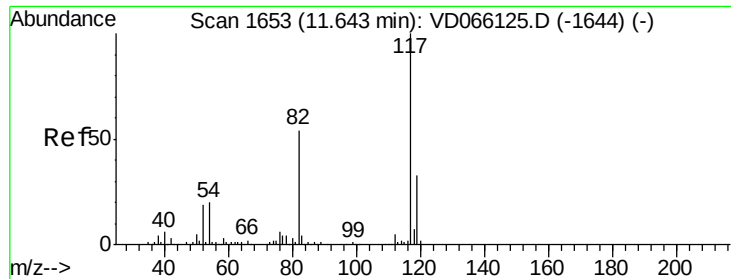
Tot Ion: 98 Resp: 585101  
Ion Ratio Lower Upper  
98 100  
100 66.5 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 80.082 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.01 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

Tgt Ion: 95 Resp: 313317  
Ion Ratio Lower Upper  
95 100  
174 91.5 0.0 180.8  
176 89.3 0.0 181.2

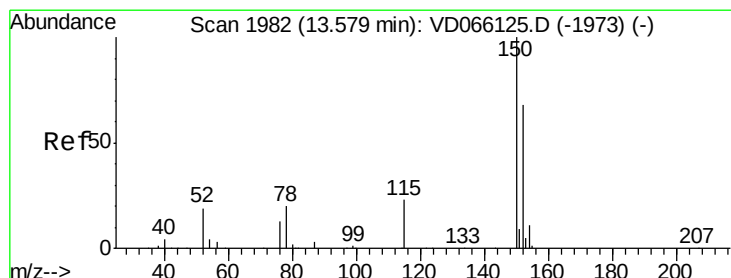
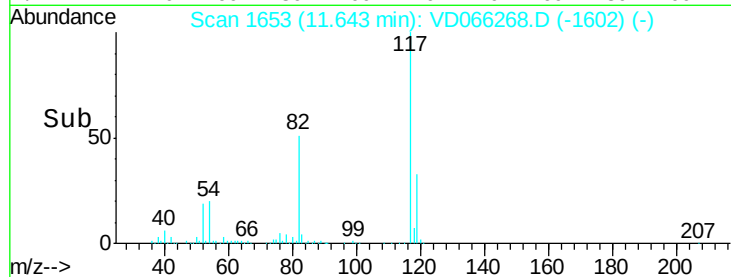
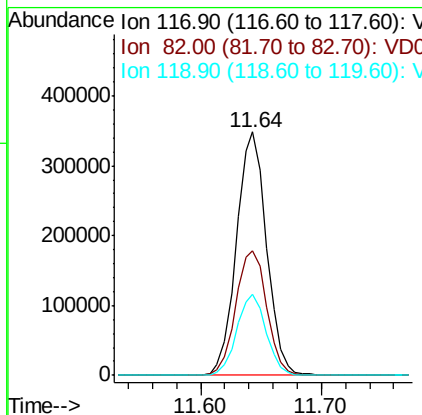
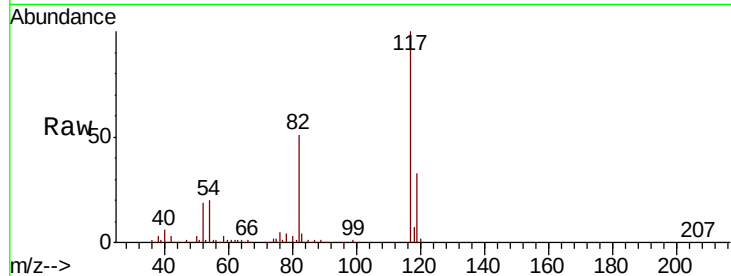




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

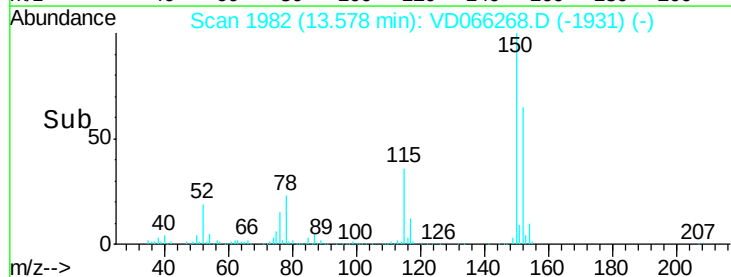
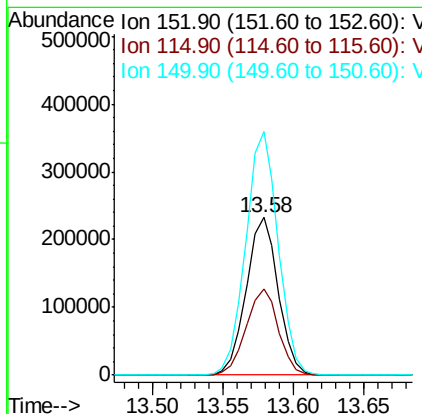
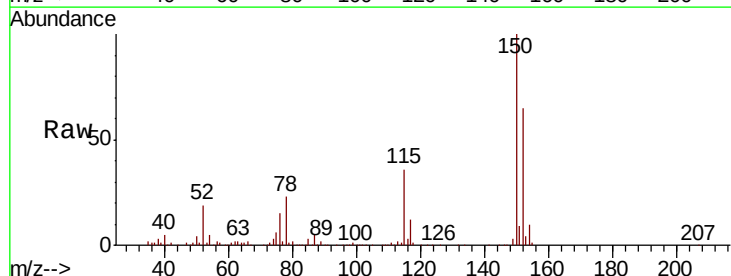
Instrument :  
MSVOA\_D  
ClientSampleId :  
S605-M-SO-1-1.5-081320RE

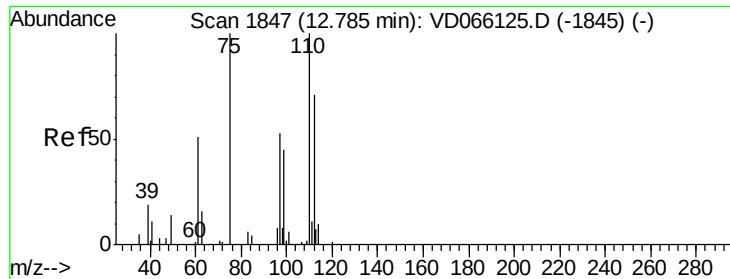
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.1  | 43.0  | 64.4  |
| 119     | 33.4  | 26.1  | 39.1  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066268.D  
Acq: 17 Aug 2020 20:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 28.0  | 83.9  |
| 150     | 156.1 | 0.0   | 346.4 |

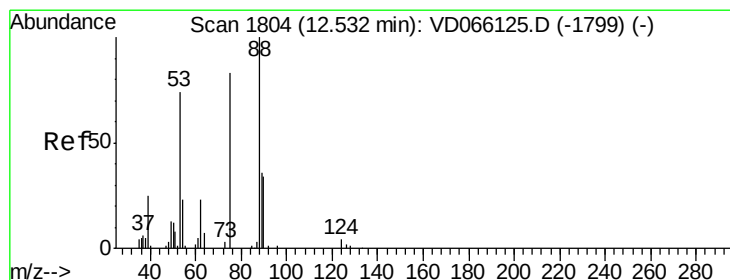
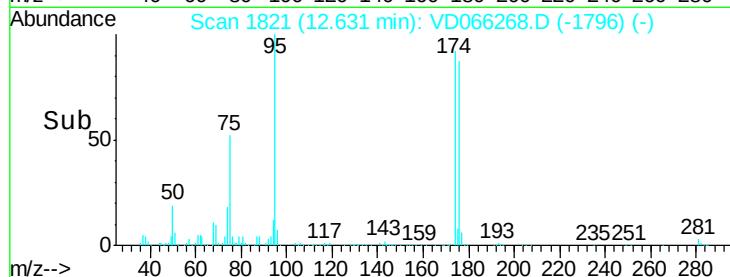
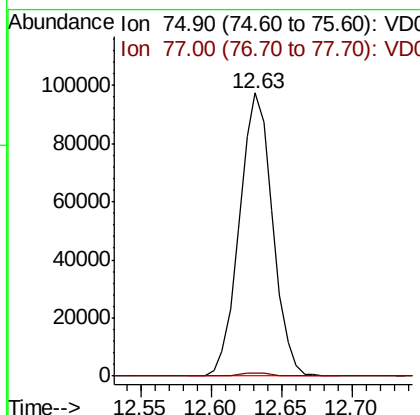
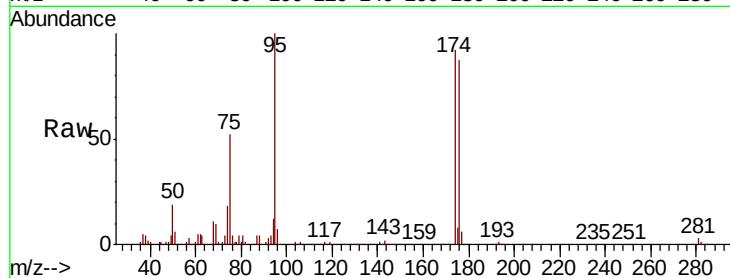




#76  
 1,2,3-Trichloropropane  
 Concen: 51.903 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.15 min  
 Lab File: VD066268.D  
 Acq: 17 Aug 2020 20:00

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S605-M-SO-1-1.5-081320RE

Tot Ion: 75 Resp: 159912  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 114.735 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.10 min  
 Lab File: VD066268.D  
 Acq: 17 Aug 2020 20:00

Tgt Ion: 75 Resp: 159912  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.4 110.2#  
 89 0.2 36.6 55.0#

