

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
 Data File : VD066245.D  
 Acq On : 14 Aug 2020 19:12  
 Operator : VA/SY  
 Sample : L3691-03  
 Misc : 9.16G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S604-M-SO-1-1.5-081320

Quant Time: Aug 17 08:47:57 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

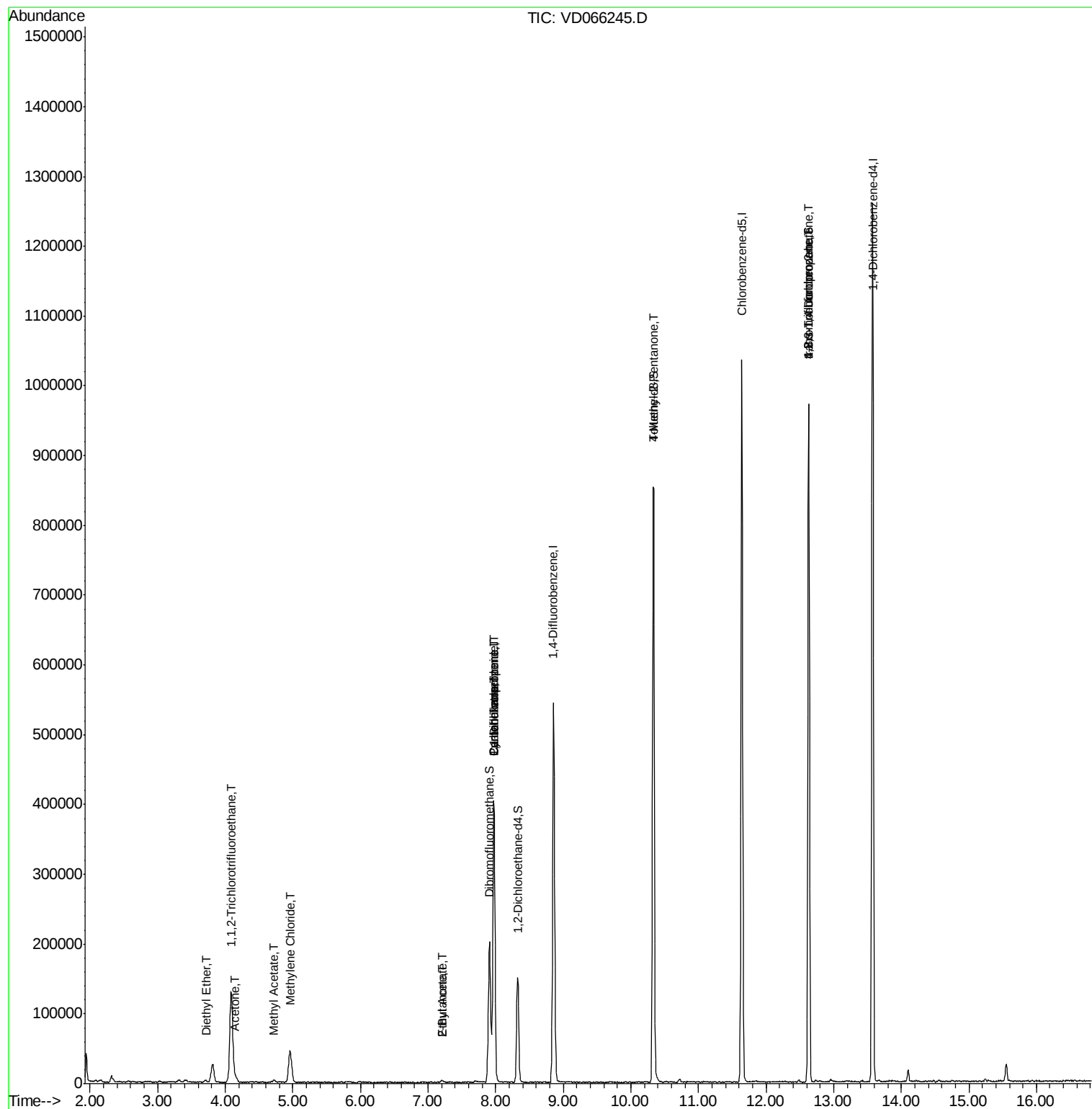
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.97  | 168  | 310520   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.86  | 114  | 477735   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 599561   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 352640   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 123856   | 44.71     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 89.42%  |          |
| 35) Dibromofluoromethane       | 7.91  | 113  | 144904   | 47.88     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 95.76%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 593074   | 53.10     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.20% |          |
| 62) 4-Bromofluorobenzene       | 12.63 | 95   | 302113   | 75.05     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 150.10% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 8) Diethyl Ether               | 3.71  | 74   | 1572     | 1.134     | ug/l    | 90       |
| 9) 1,1,2-Trichlorotrifluoroet  | 4.09  | 101  | 81462    | 27.945    | ug/l    | 97       |
| 11) Tert butyl alcohol         | 5.24  | 59   | 65       | Below Cal | #       | 76       |
| 16) Acetone                    | 4.16  | 43   | 12202    | 23.213    | ug/l    | 89       |
| 18) Methyl Acetate             | 4.71  | 43   | 5594     | 4.190     | ug/l    | 96       |
| 20) Methylene Chloride         | 4.96  | 84   | 36377    | 8.146     | ug/l    | 96       |
| 25) 2-Butanone                 | 7.22  | 43   | 2626     | 3.397     | ug/l #  | 88       |
| 31) Cyclohexane                | 7.97  | 56   | 6182     | 1.274     | ug/l #  | 46       |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 21448    | 4.778     | ug/l #  | 51       |
| 37) Ethyl Acetate              | 7.22  | 43   | 2626     | 1.476     | ug/l #  | 66       |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 29481    | 5.889     | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 3004     | 1.669     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 157110   | 53.425    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 157110   | 118.099   | ug/l #  | 13       |

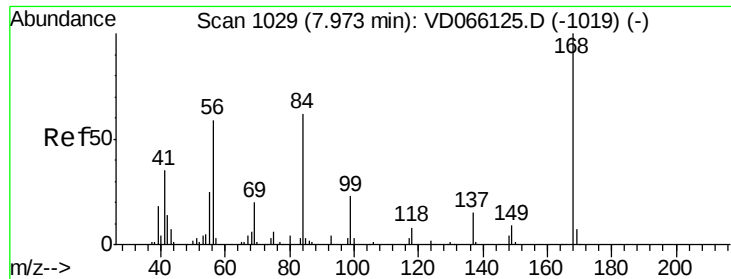
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
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Quant Time: Aug 17 08:47:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
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: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

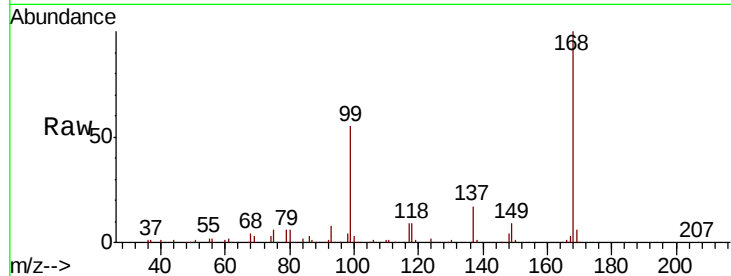
S604-M-SO-1-1.5-081320

Tot Ion:168 Resp: 310520

Ion Ratio Lower Upper

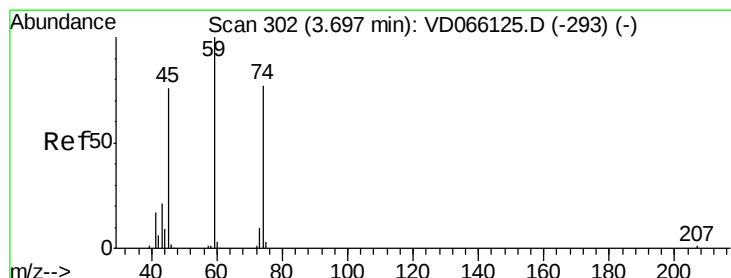
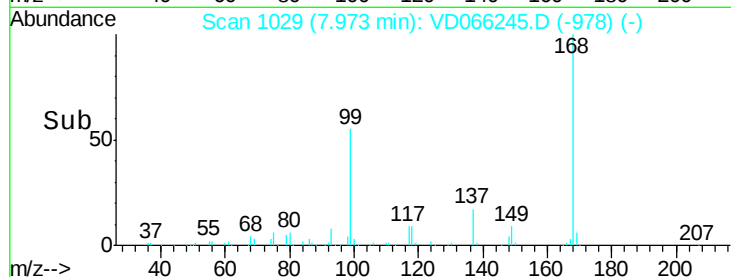
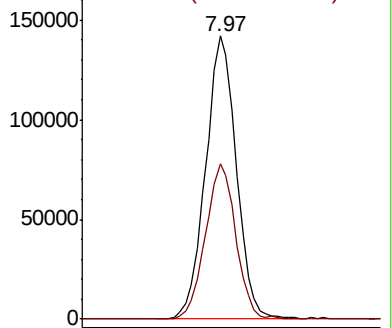
168 100

99 54.6 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: 1.134 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.01 min

Lab File: VD066245.D

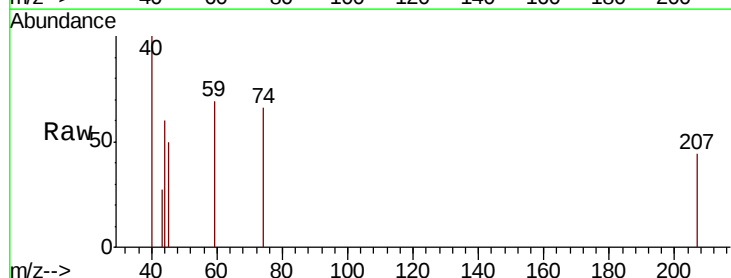
Acq: 14 Aug 2020 19:12

Tgt Ion: 74 Resp: 1572

Ion Ratio Lower Upper

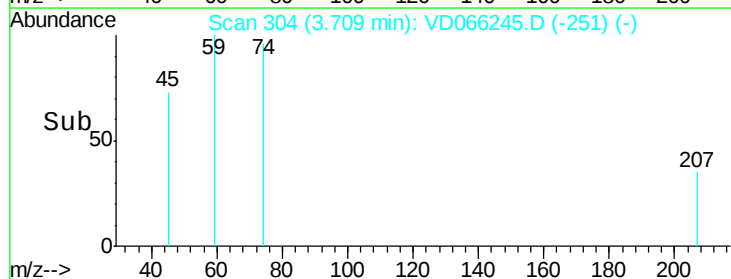
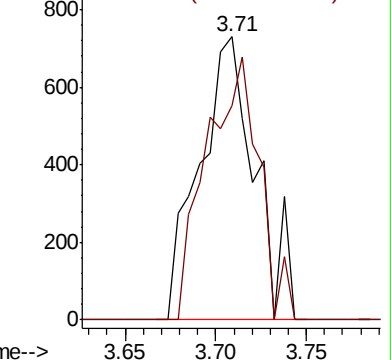
74 100

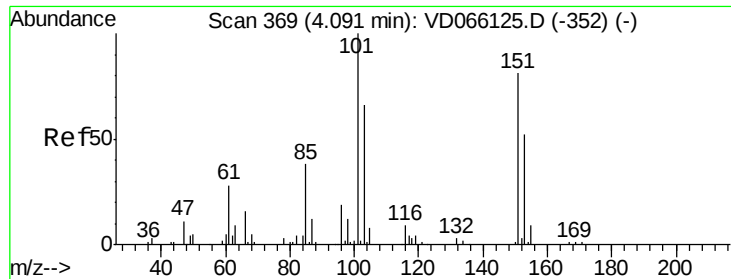
45 87.2 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 27.945 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

S604-M-SO-1-1.5-081320

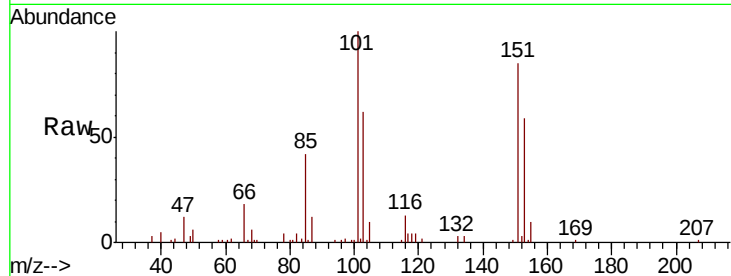
Tot Ion:101 Resp: 81462

Ion Ratio Lower Upper

101 100

85 44.1 33.5 50.3

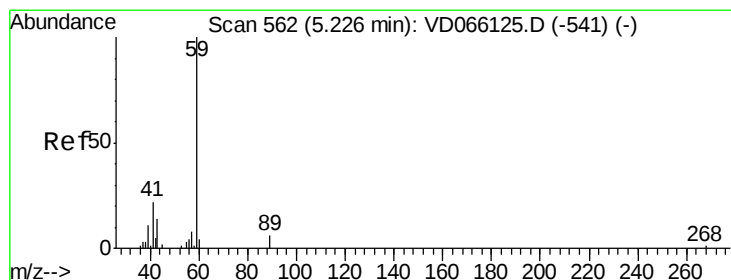
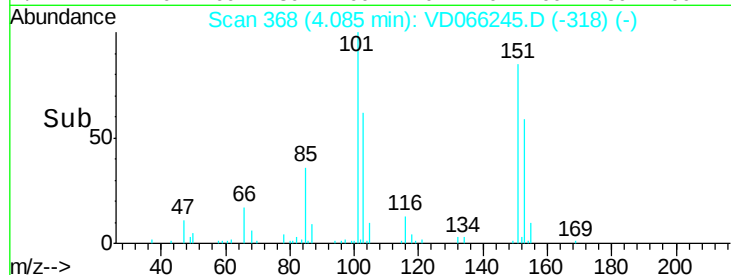
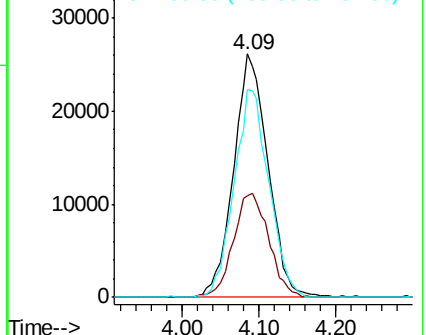
151 86.9 67.8 101.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VDC

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.24 min Scan# 565

Delta R.T. 0.02 min

Lab File: VD066245.D

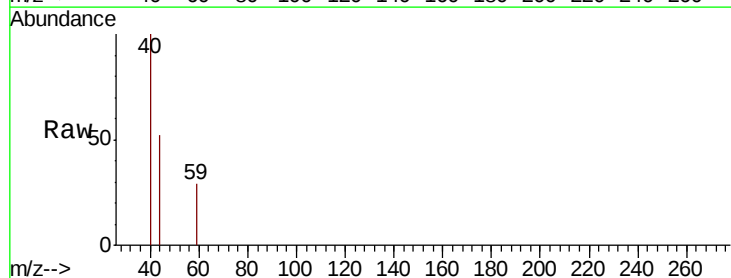
Acq: 14 Aug 2020 19:12

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

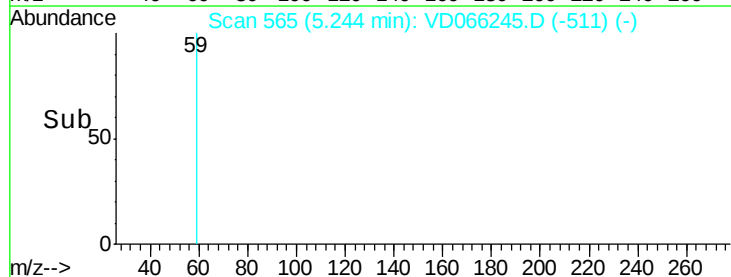
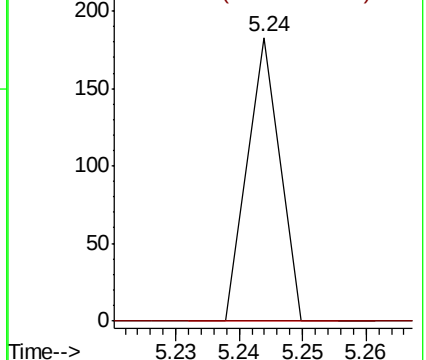
59 100

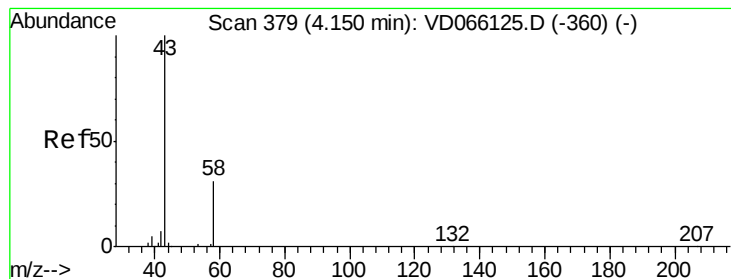
57 0.0 7.0 10.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 23.213 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

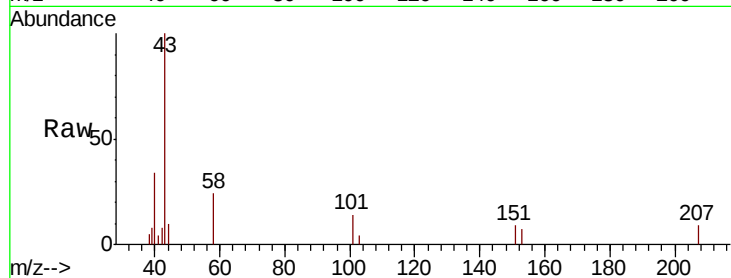
S604-M-SO-1-1.5-081320

Tot Ion: 43 Resp: 12202

Ion Ratio Lower Upper

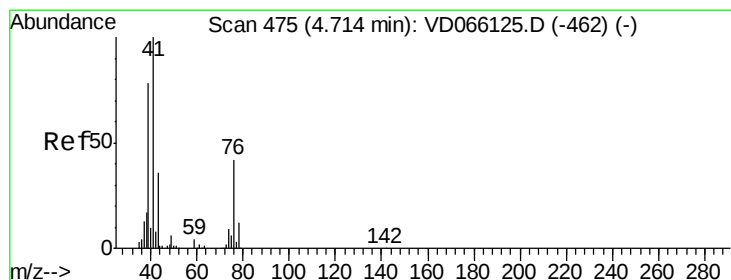
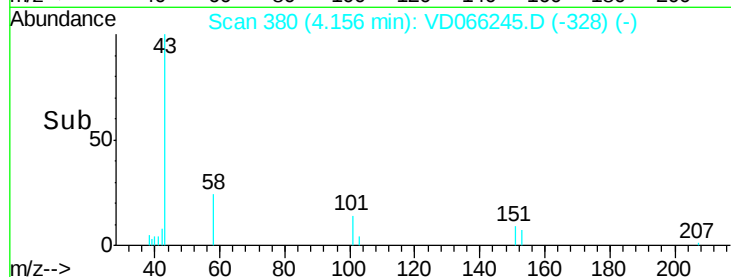
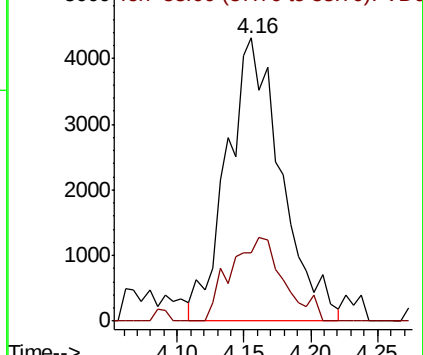
43 100

58 25.0 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 4.190 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD066245.D

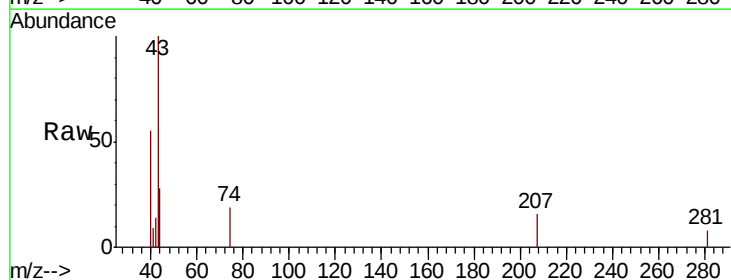
Acq: 14 Aug 2020 19:12

Tgt Ion: 43 Resp: 5594

Ion Ratio Lower Upper

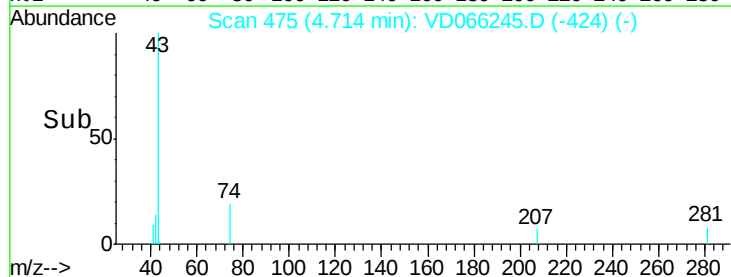
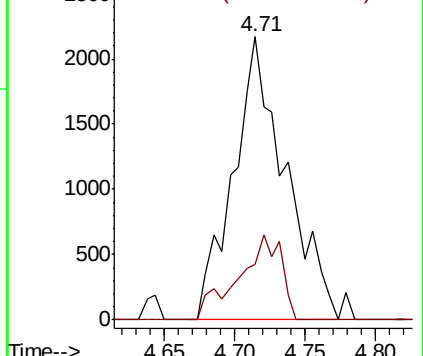
43 100

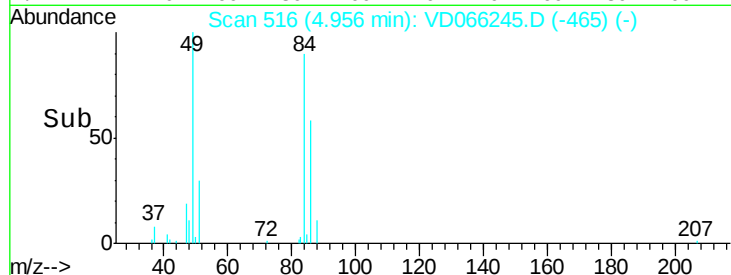
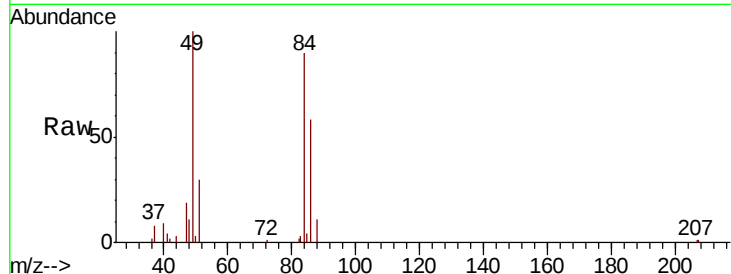
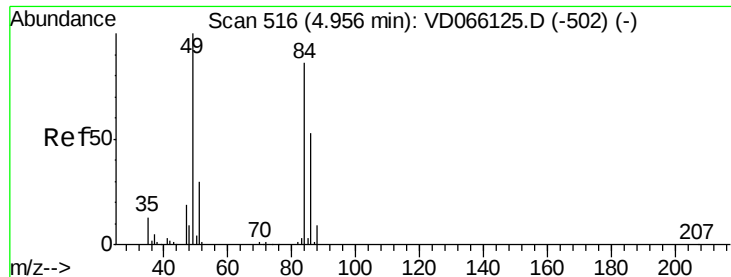
74 24.7 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

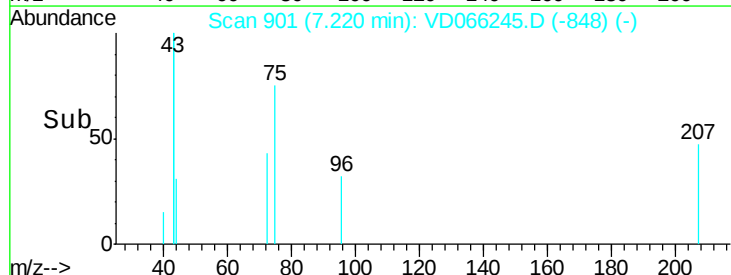
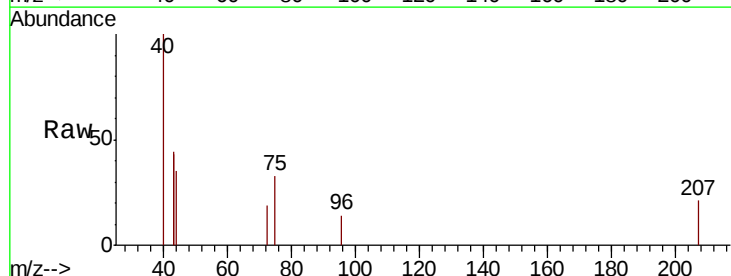
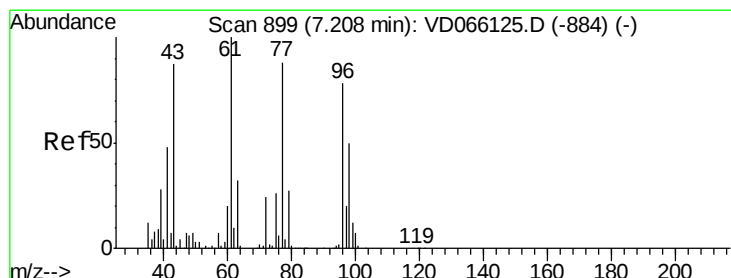
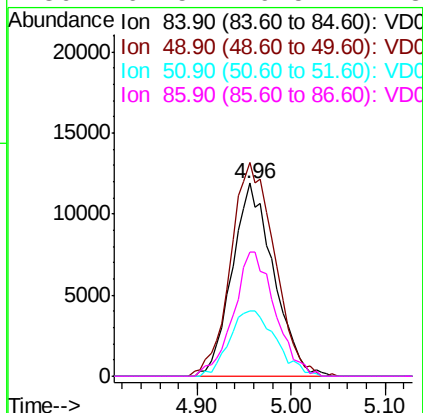




#20  
Methvlene Chloride  
Concen: 8.146 ug/l  
RT: 4.96 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

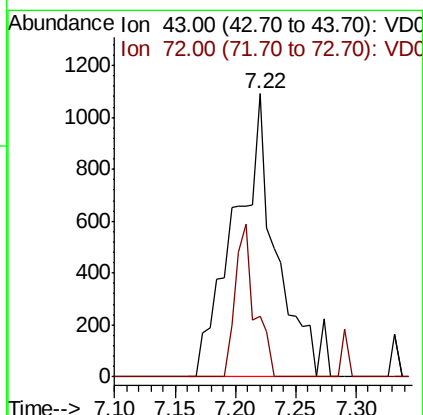
Instrument :  
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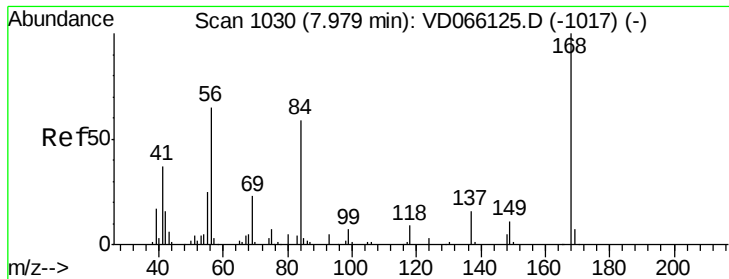
Tot Ion: 84 Resp: 36377  
Ion Ratio Lower Upper  
84 100  
49 110.8 93.5 140.3  
51 33.7 28.2 42.4  
86 64.5 49.5 74.3



#25  
2-Butanone  
Concen: 3.397 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. 0.01 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

Tgt Ion: 43 Resp: 2626  
Ion Ratio Lower Upper  
43 100  
72 21.5 22.2 33.2#

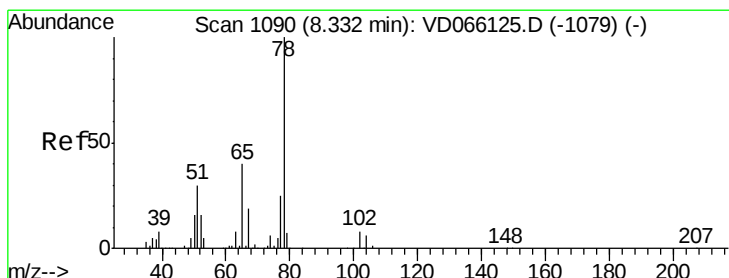
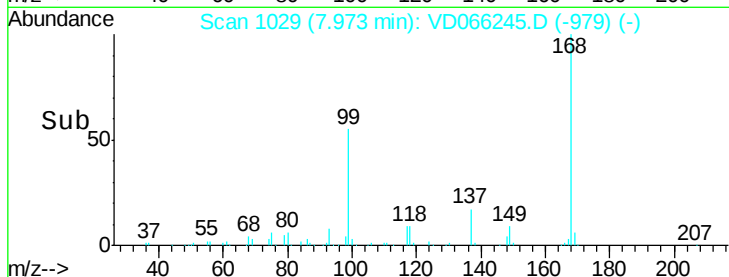
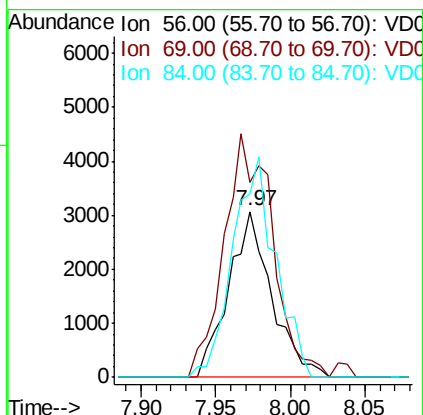
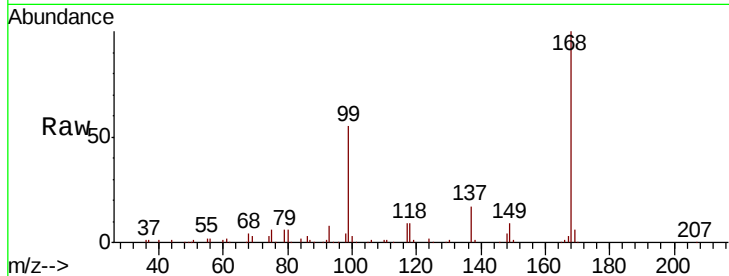




#31  
Cyclohexane  
Concen: 1.274 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

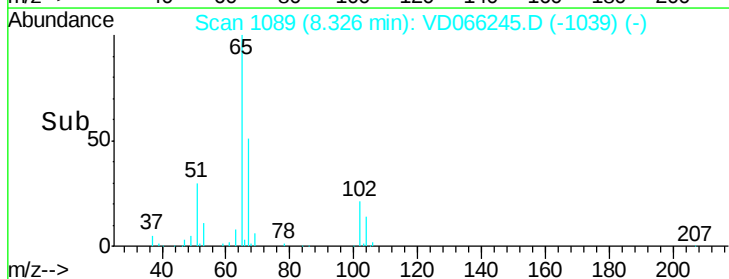
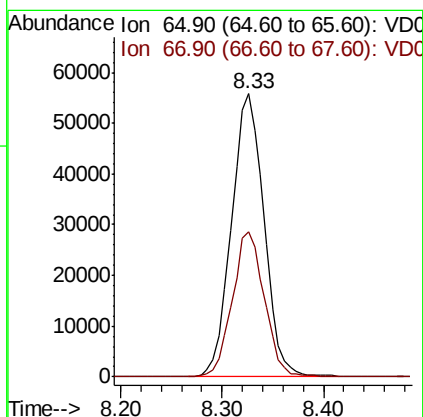
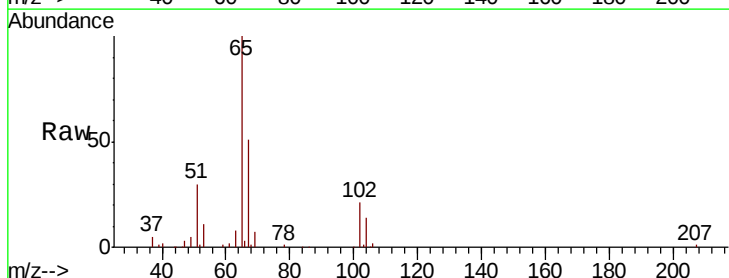
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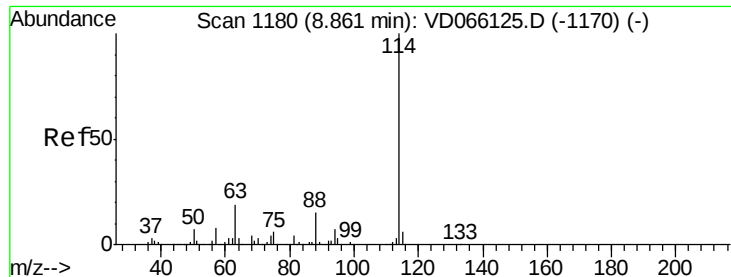
Tot Ion: 56 Resp: 6182  
Ion Ratio Lower Upper  
56 100  
69 117.7 28.8 43.2#  
84 110.7 73.0 109.6#



#33  
1,2-Dichloroethane-d4  
Concen: 44.708 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.01 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

Tgt Ion: 65 Resp: 123856  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 104.6

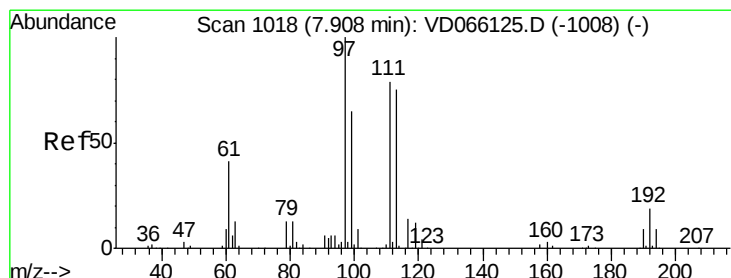
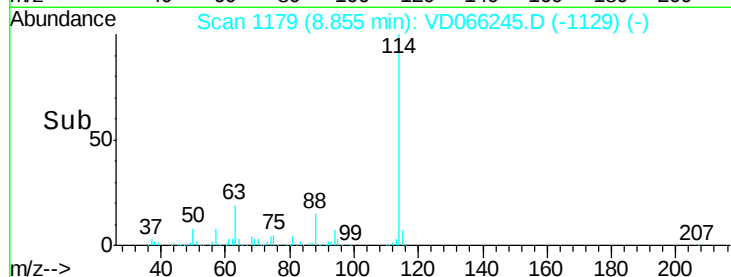
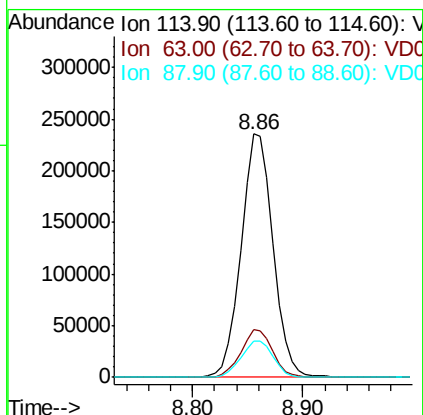
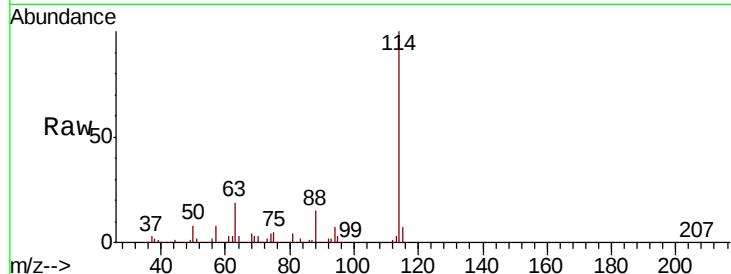




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: VD066245.D  
 Acq: 14 Aug 2020 19:12

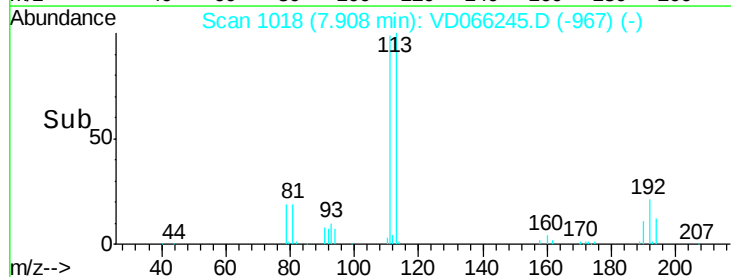
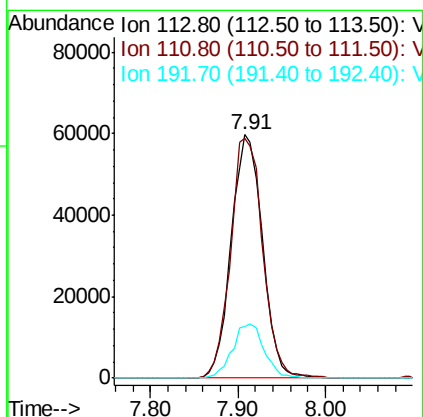
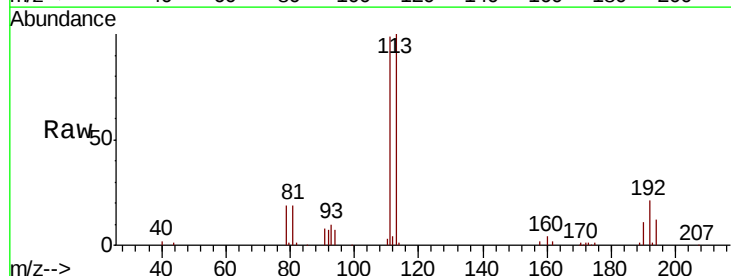
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S604-M-SO-1-1.5-081320

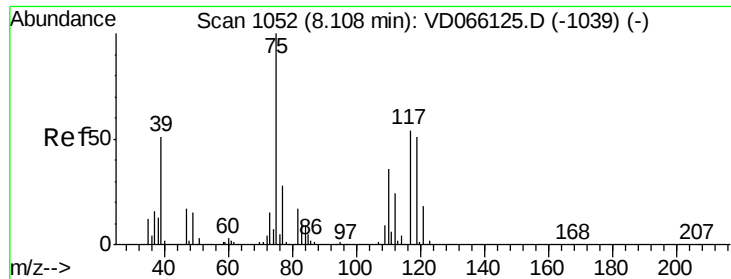
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 38.6  |
| 88      | 15.0  | 0.0   | 30.0  |



#35  
 Dibromofluoromethane  
 Concen: 47.880 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066245.D  
 Acq: 14 Aug 2020 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.6 | 80.7  | 121.1 |
| 192     | 22.4  | 18.4  | 27.6  |





#36

1,1-Dichloropropene

Concen: 4.778 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

S604-M-SO-1-1.5-081320

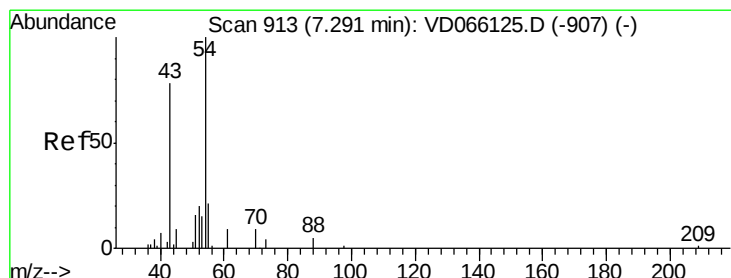
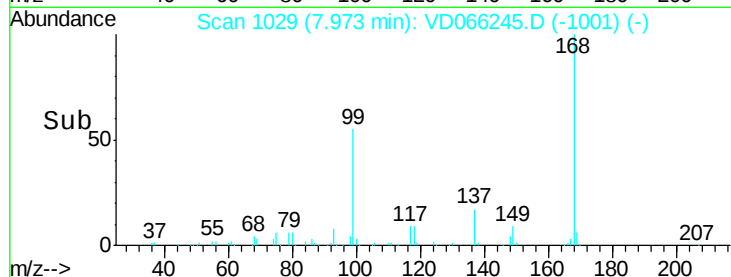
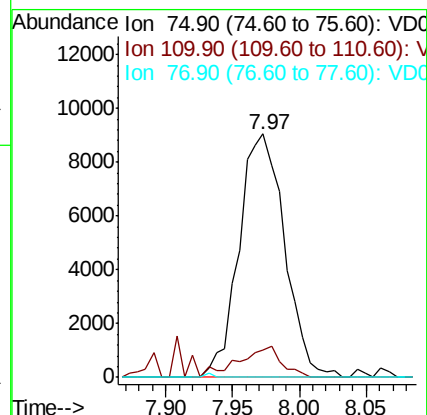
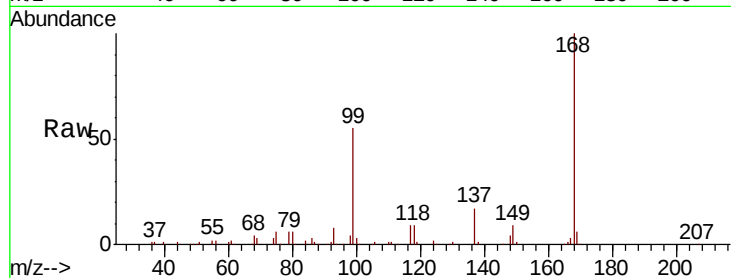
Tot Ion: 75 Resp: 21448

Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.3#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 1.476 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.07 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

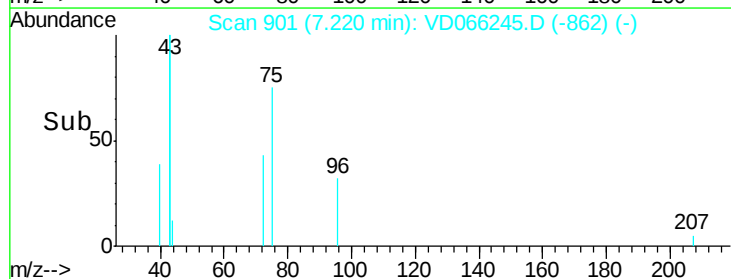
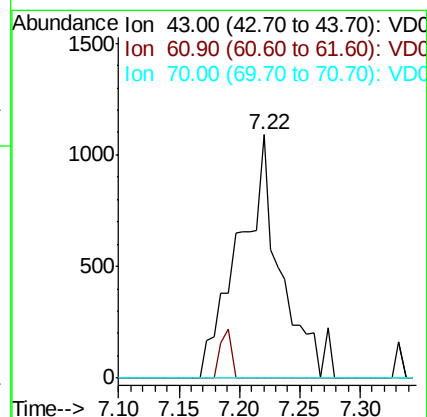
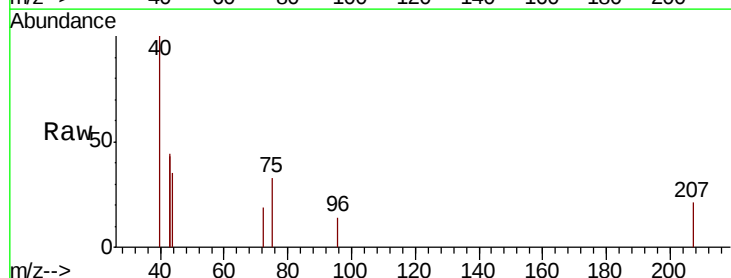
Tgt Ion: 43 Resp: 2626

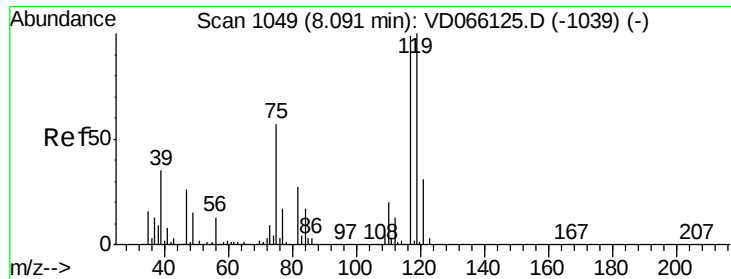
Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 9.7 14.5#





#38

Carbon Tetrachloride

Concen: 5.889 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

S604-M-SO-1-1.5-081320

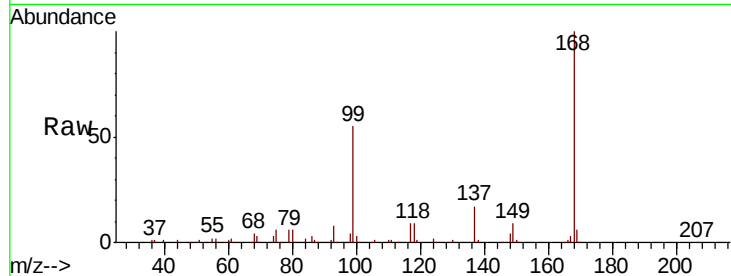
Tot Ion:117 Resp: 29481

Ion Ratio Lower Upper

117 100

119 7.5 81.0 121.4#

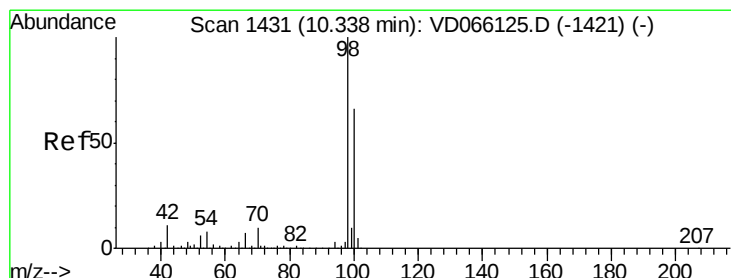
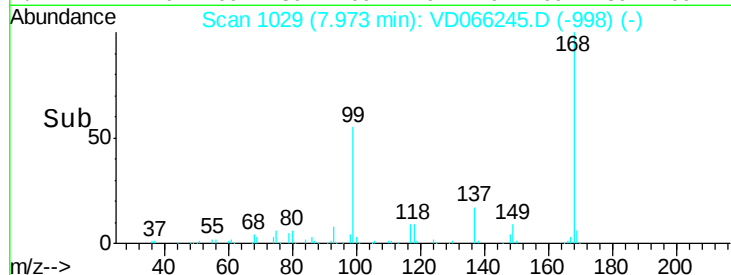
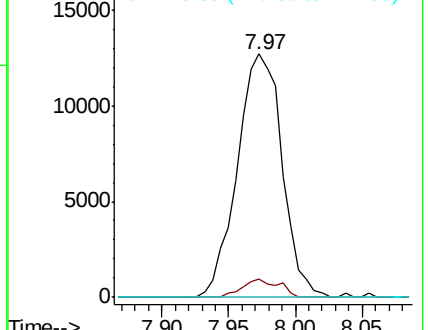
121 0.0 24.8 37.2#



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: 53.104 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066245.D

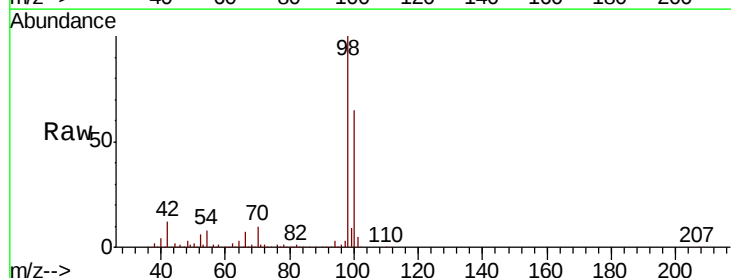
Acq: 14 Aug 2020 19:12

Tgt Ion: 98 Resp: 593074

Ion Ratio Lower Upper

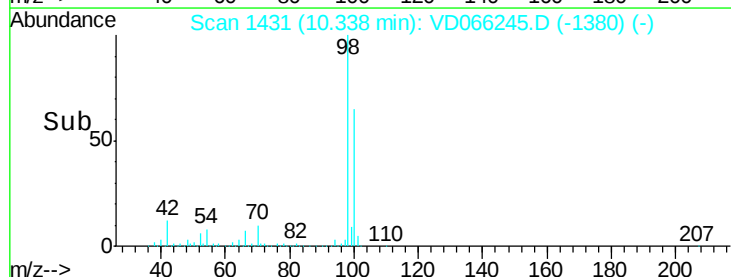
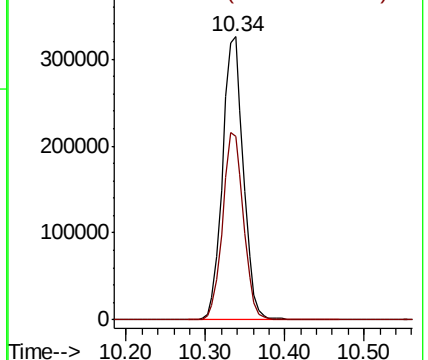
98 100

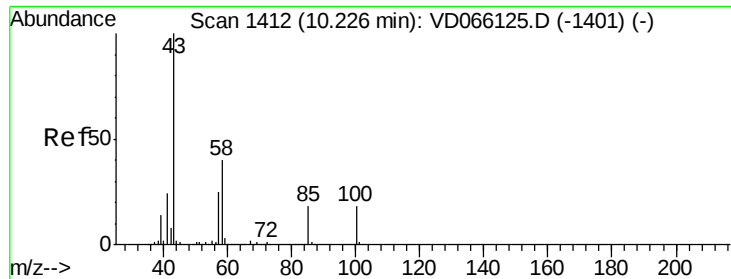
100 66.0 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.669 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.11 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

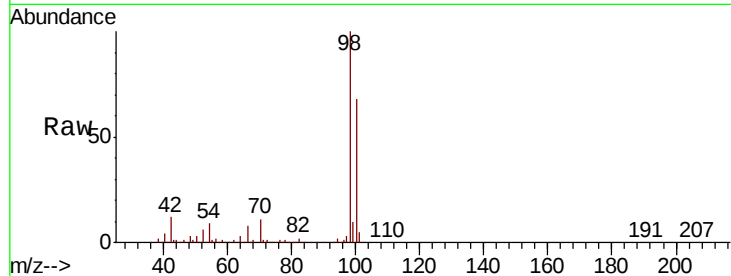
S604-M-SO-1-1.5-081320

Tot Ion: 43 Resp: 3004

Ion Ratio Lower Upper

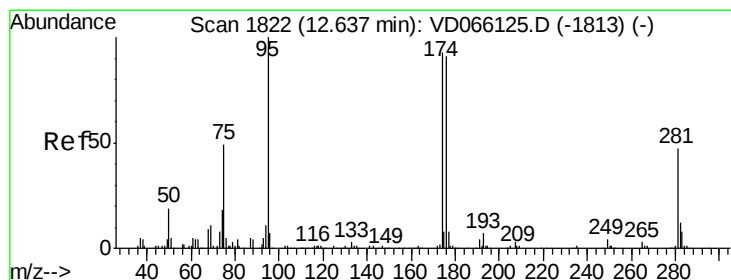
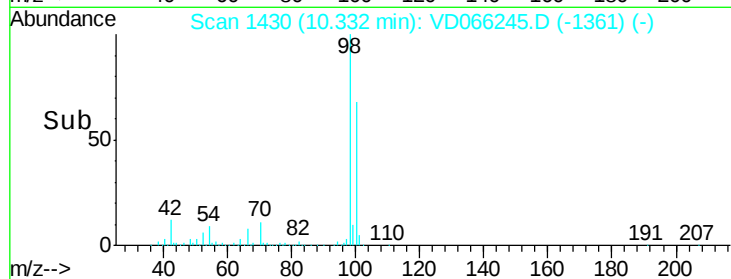
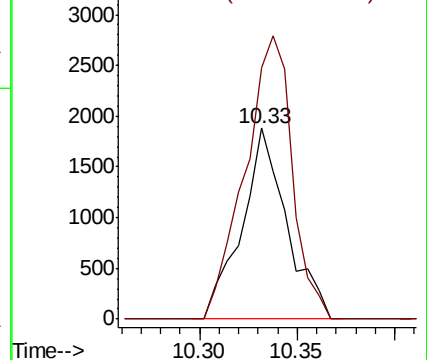
43 100

58 156.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 75.046 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

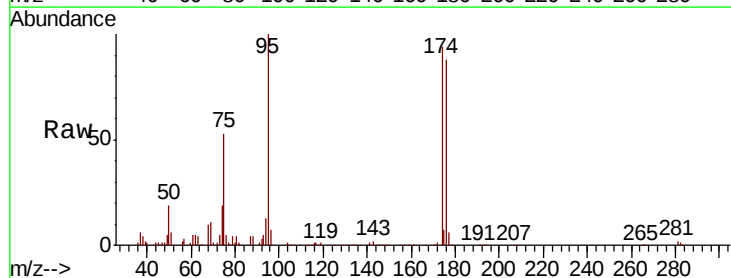
Tgt Ion: 95 Resp: 302113

Ion Ratio Lower Upper

95 100

174 91.4 0.0 180.8

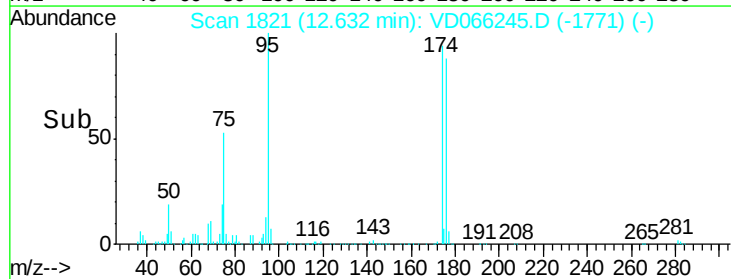
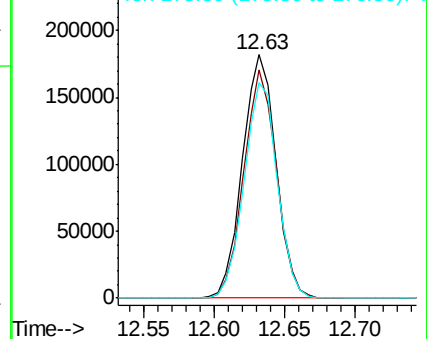
176 87.7 0.0 181.2

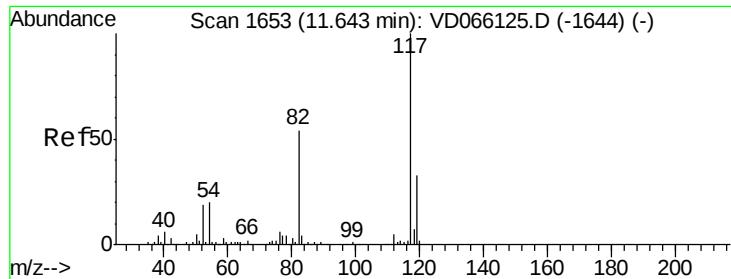


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

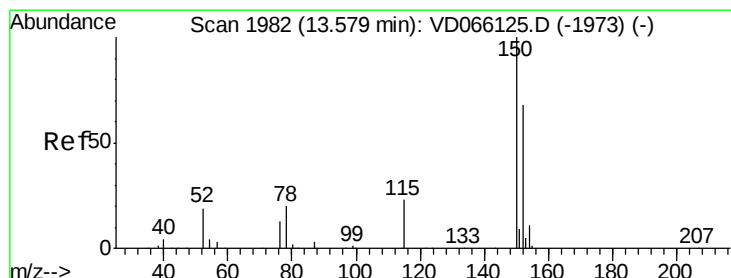
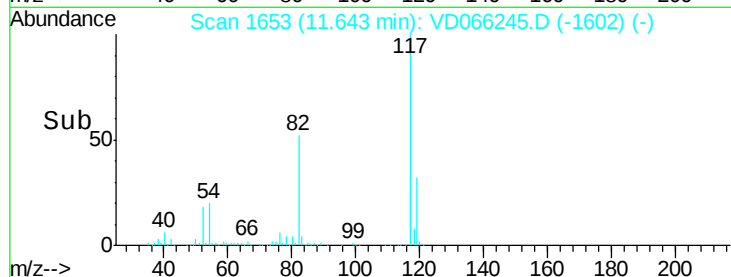
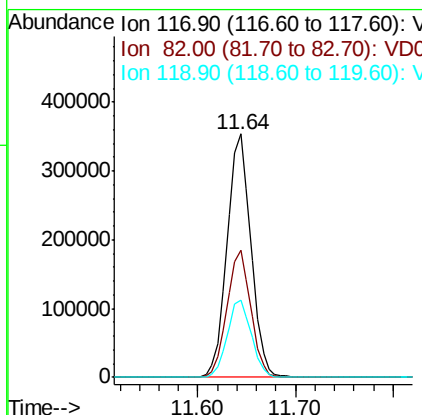
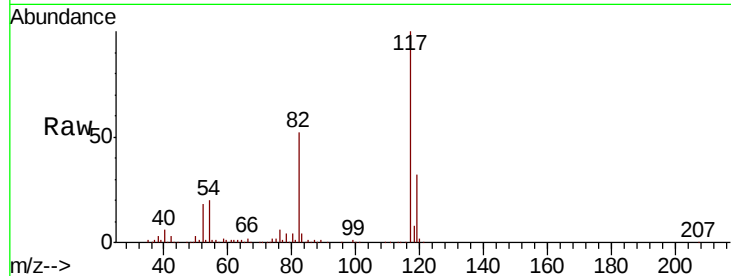




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

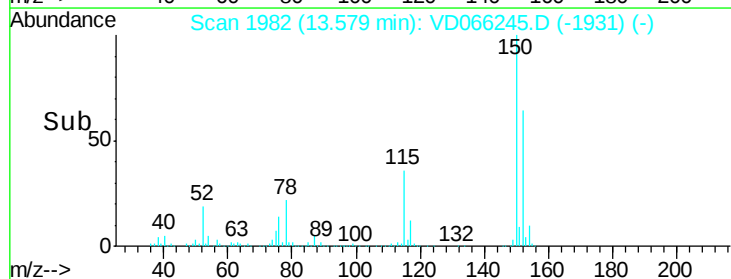
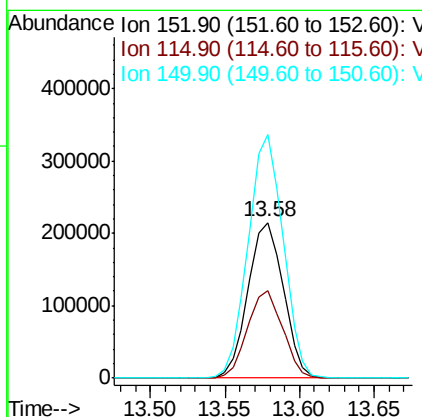
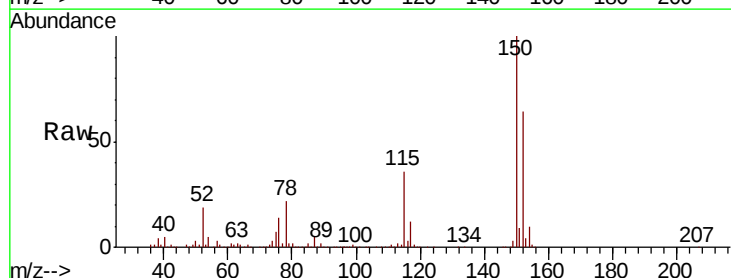
Instrument :  
MSVOA\_D  
ClientSampleId :  
S604-M-SO-1-1.5-081320

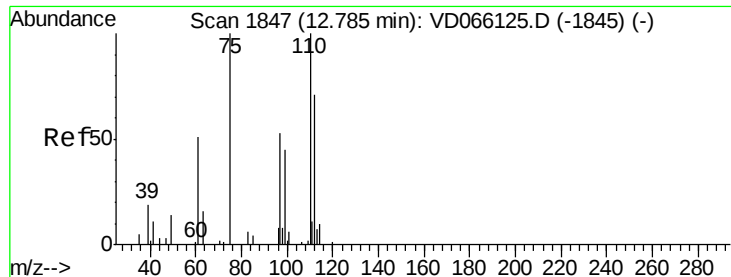
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.2  | 43.0  | 64.4  |
| 119     | 31.8  | 26.1  | 39.1  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066245.D  
Acq: 14 Aug 2020 19:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.8  | 28.0  | 83.9  |
| 150     | 155.1 | 0.0   | 346.4 |





#76

1,2,3-Trichloropropane

Concen: 53.425 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

Instrument :

MSVOA\_D

ClientSampleId :

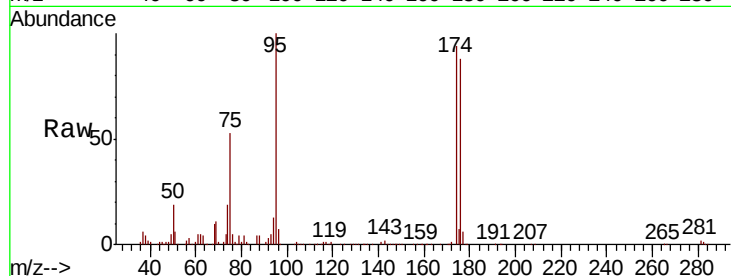
S604-M-SO-1-1.5-081320

Tot Ion: 75 Resp: 157110

Ion Ratio Lower Upper

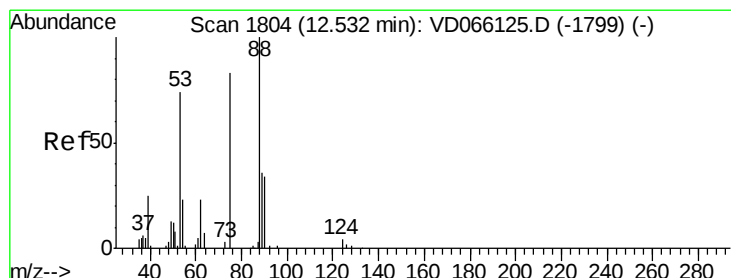
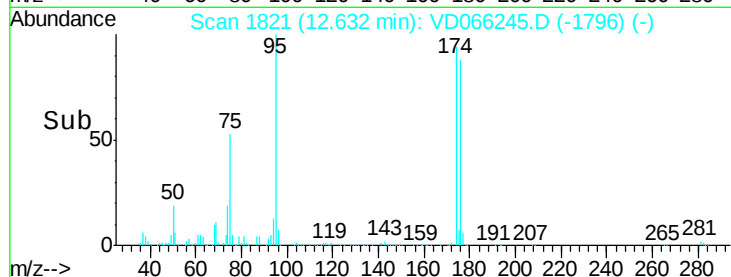
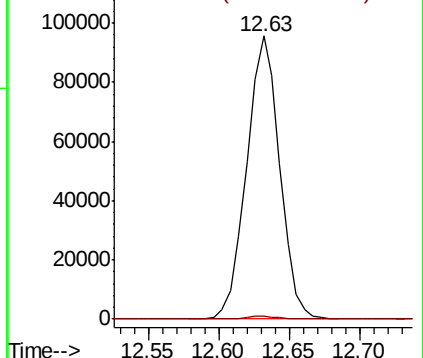
75 100

77 1.0 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: 118.099 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066245.D

Acq: 14 Aug 2020 19:12

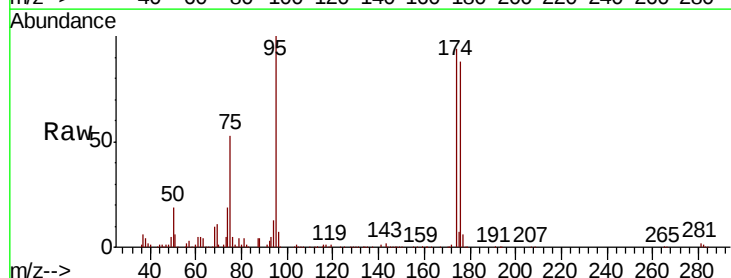
Tgt Ion: 75 Resp: 157110

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.0 36.6 55.0#



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

