

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
 Data File : VD066236.D  
 Acq On : 14 Aug 2020 15:03  
 Operator : VA/SY  
 Sample : L3679-06  
 Misc : 8.37G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S415-K-SO-2-2.5-081220

Quant Time: Aug 17 08:45:03 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  | 327888   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 520978   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 621459   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 353667   | 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   | 130261   | 44.53  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 89.06%  |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 154789   | 46.90  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 93.80%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 637453   | 52.34  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.68% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 309088   | 70.41  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 140.82% |          |

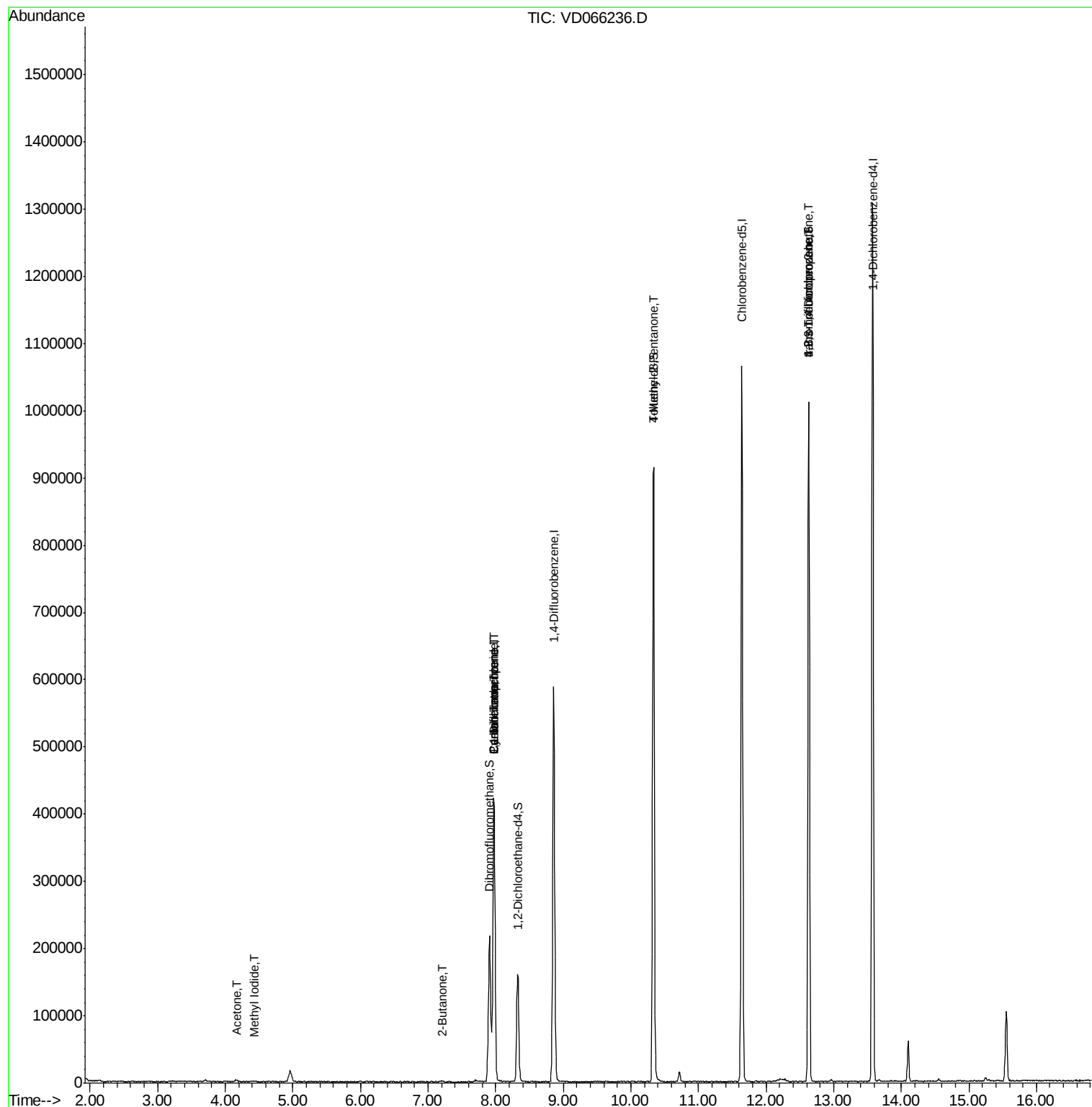
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 4.43  | 142  | 55       | 6.728     | ug/l # | 39     |
| 16) Acetone                    | 4.17  | 43   | 4720     | 8.504     | ug/l # | 67     |
| 20) Methylene Chloride         | 4.96  | 84   | 12389    | Below Cal | #      | 96     |
| 25) 2-Butanone                 | 7.21  | 43   | 981      | 1.202     | ug/l # | 47     |
| 31) Cyclohexane                | 7.97  | 56   | 6614     | 1.291     | ug/l # | 40     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 21704    | 4.433     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 30992    | 5.677     | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 2729     | 1.390     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 158630   | 53.785    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 158630   | 118.895   | ug/l # | 13     |

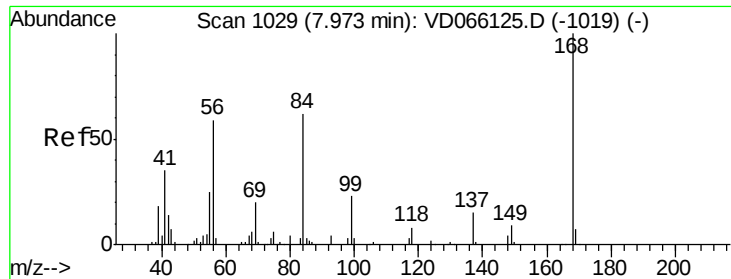
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081420\  
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Sample : L3679-06  
Misc : 8.37G/5.00ml/MSVOA D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
S415-K-SO-2-2.5-081220

Quant Time: Aug 17 08:45:03 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: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

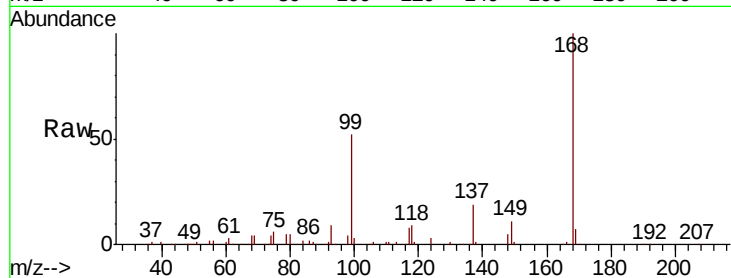
S415-K-SO-2-2.5-081220

Tot Ion:168 Resp: 327888

Ion Ratio Lower Upper

168 100

99 51.6 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.97

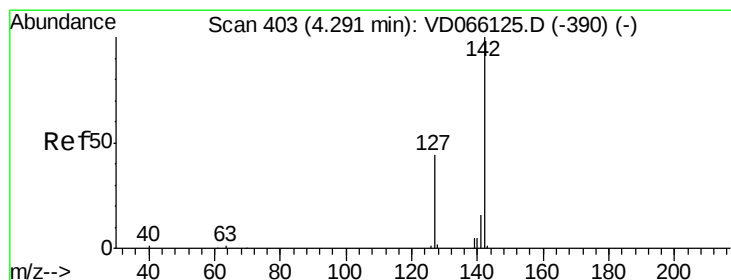
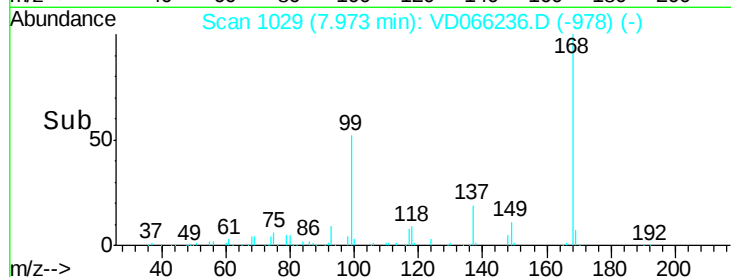
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 6.728 ug/l

RT: 4.43 min Scan# 427

Delta R.T. 0.14 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

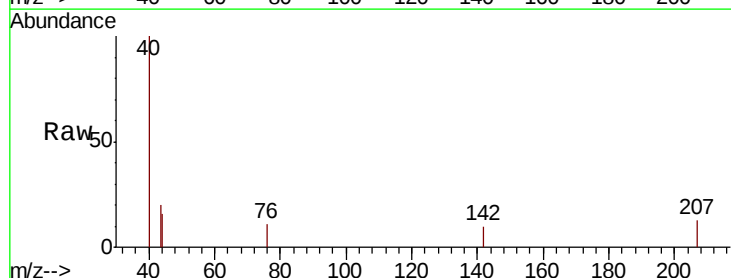
Tgt Ion:142 Resp: 55

Ion Ratio Lower Upper

142 100

127 0.0 36.2 54.4#

141 0.0 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.43

200

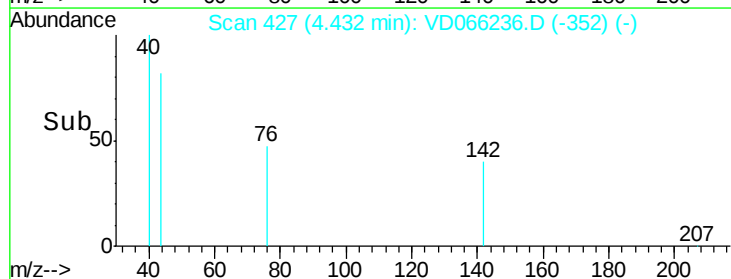
150

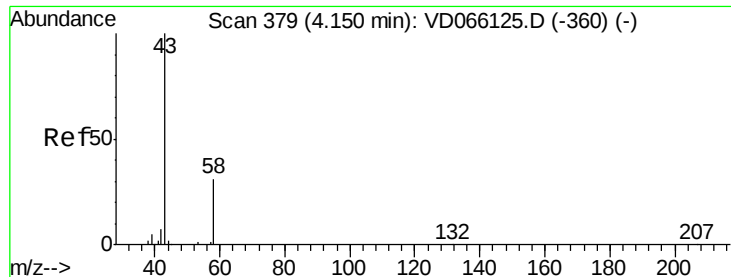
100

50

0

Time-->





#16

Acetone

Concen: 8.504 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.02 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

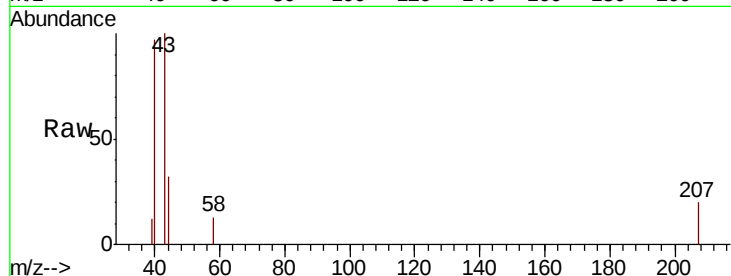
S415-K-SO-2-2.5-081220

Tot Ion: 43 Resp: 4720

Ion Ratio Lower Upper

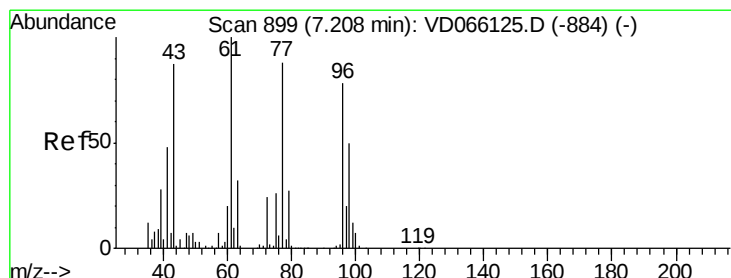
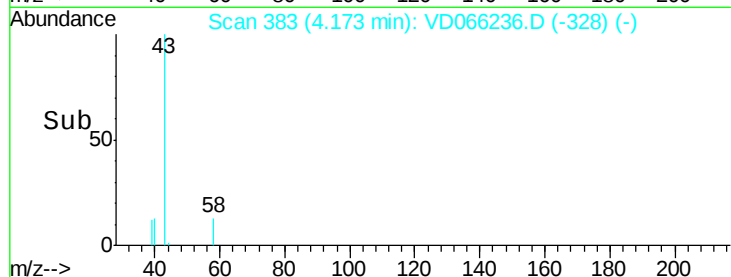
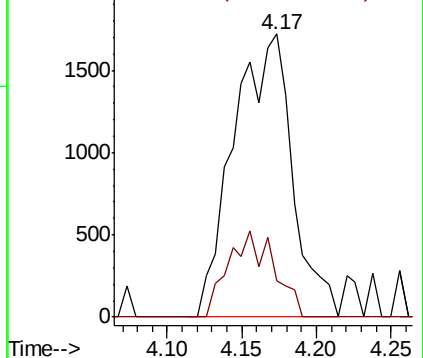
43 100

58 12.6 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 1.202 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD066236.D

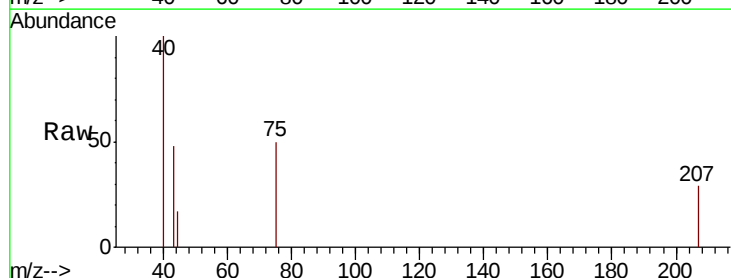
Acq: 14 Aug 2020 15:03

Tgt Ion: 43 Resp: 981

Ion Ratio Lower Upper

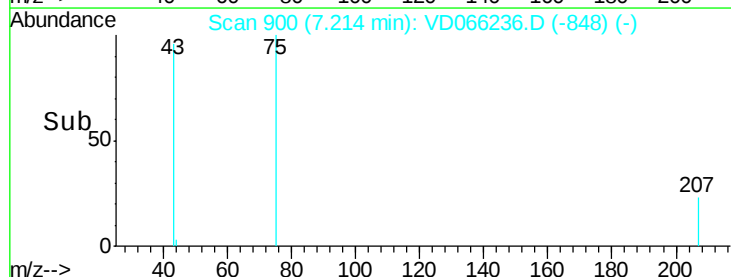
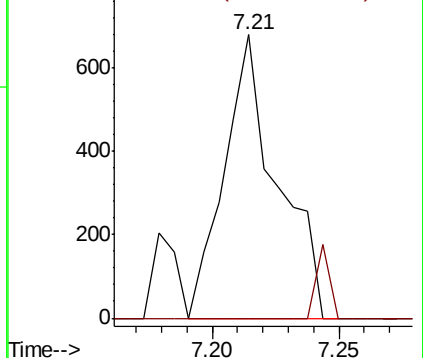
43 100

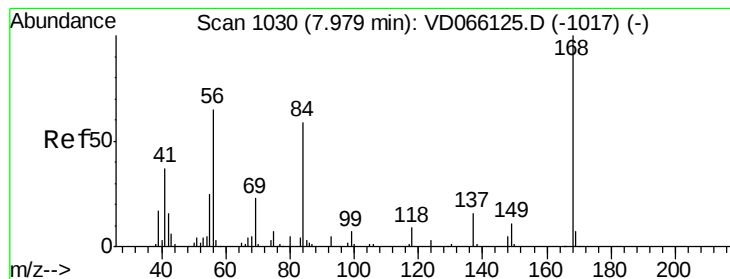
72 0.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.291 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

S415-K-SO-2-2.5-081220

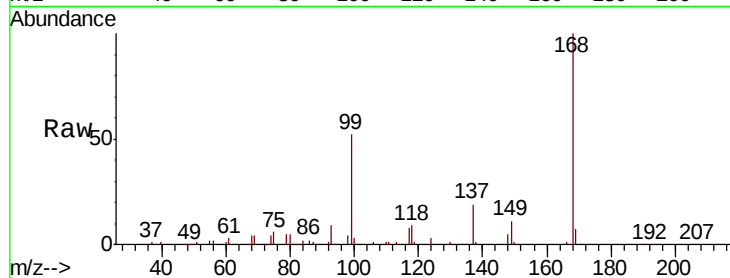
Tot Ion: 56 Resp: 6614

Ion Ratio Lower Upper

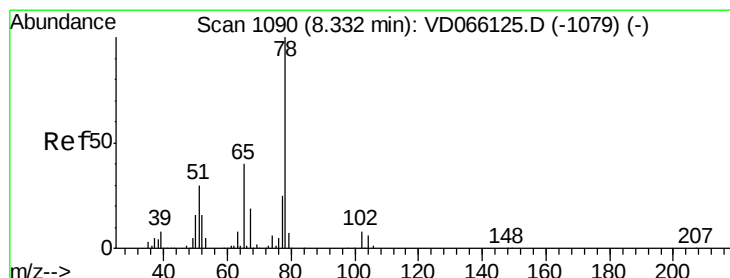
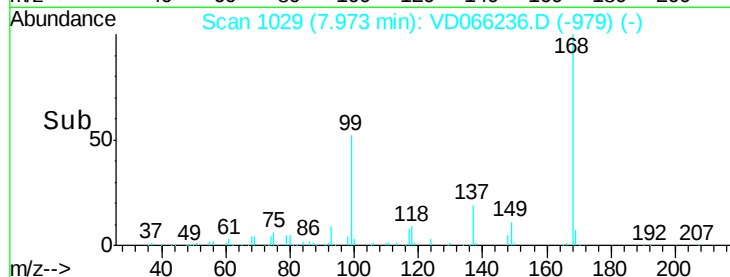
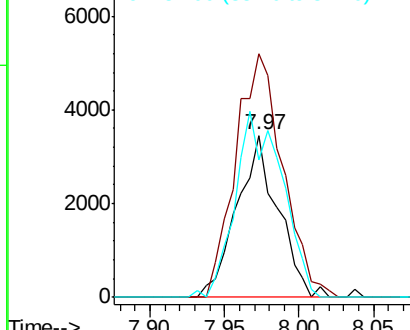
56 100

69 150.3 28.8 43.2#

84 85.0 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: 44.530 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066236.D

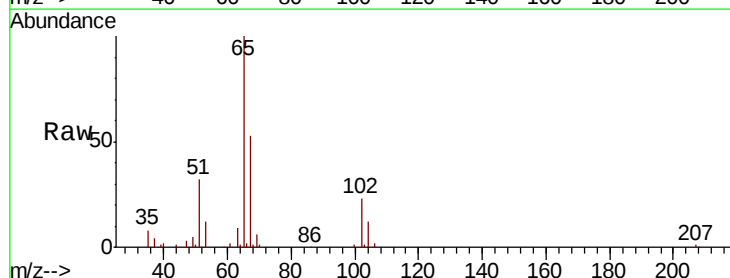
Acq: 14 Aug 2020 15:03

Tgt Ion: 65 Resp: 130261

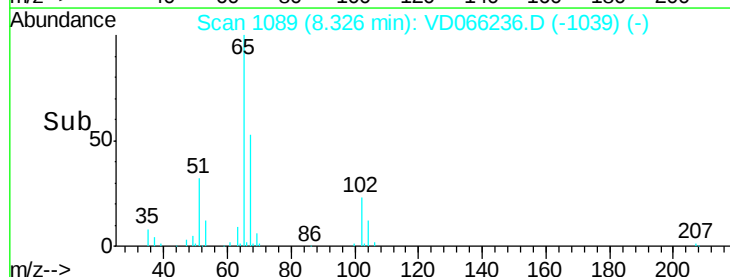
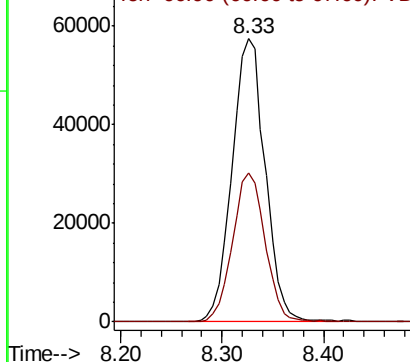
Ion Ratio Lower Upper

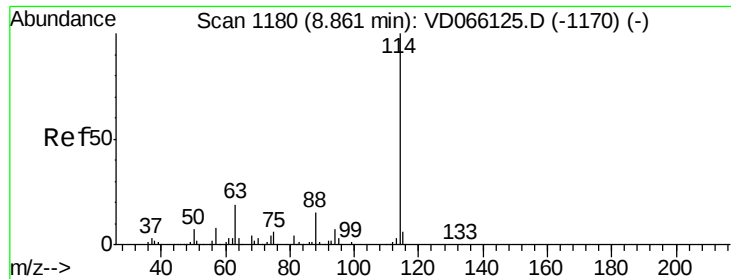
65 100

67 51.8 0.0 104.6



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

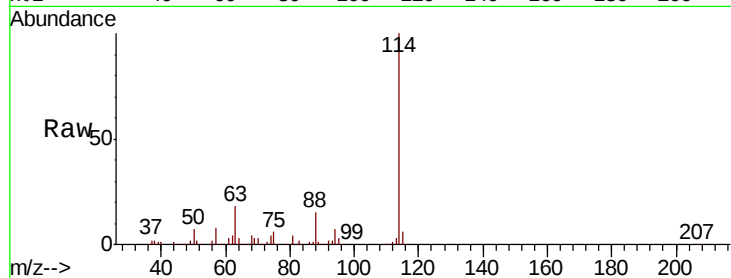




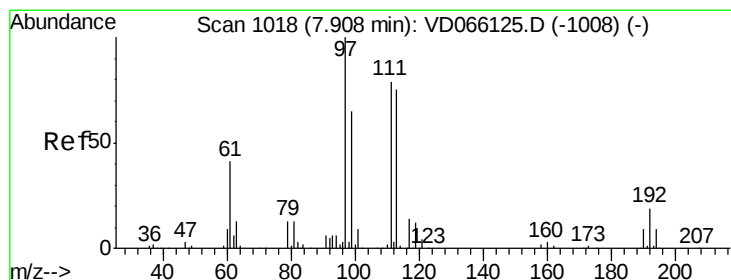
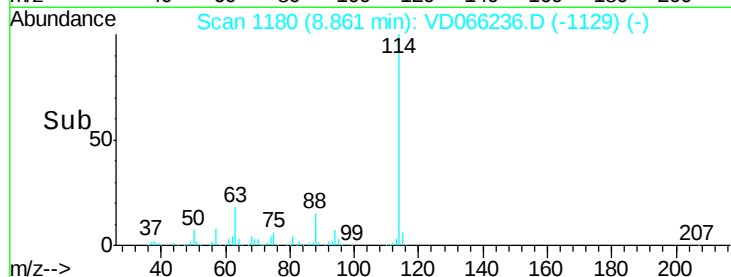
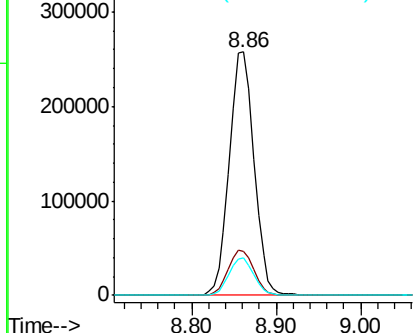
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066236.D  
 Acq: 14 Aug 2020 15:03

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S415-K-SO-2-2.5-081220

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.2  | 0.0   | 38.6  |
| 88      | 15.2  | 0.0   | 30.0  |

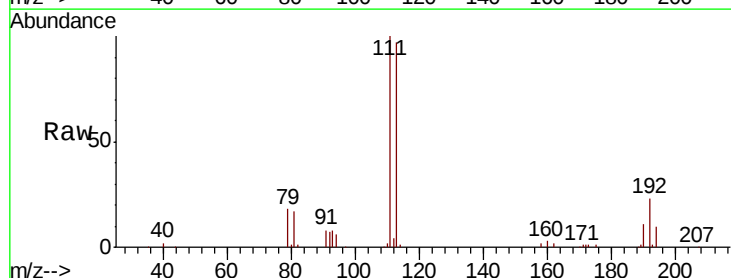


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VDC  
 Ion 87.90 (87.60 to 88.60): VDC

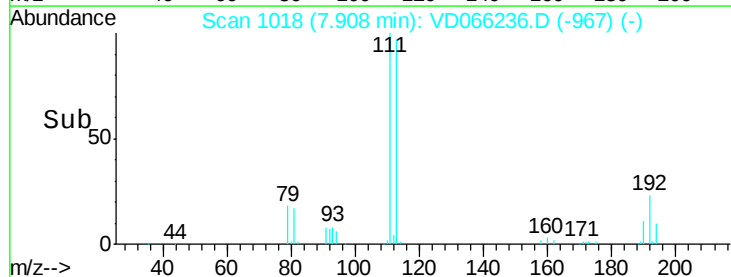
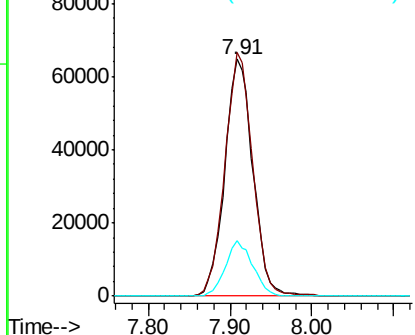


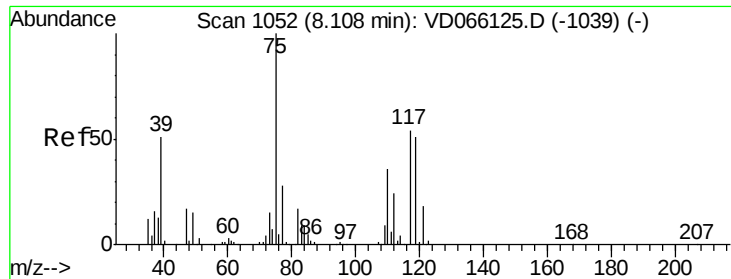
#35  
 Dibromofluoromethane  
 Concen: 46.901 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066236.D  
 Acq: 14 Aug 2020 15:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 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

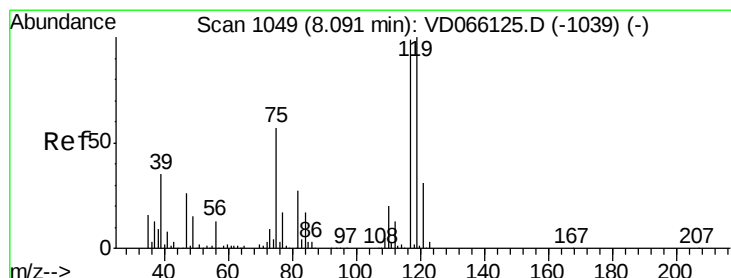
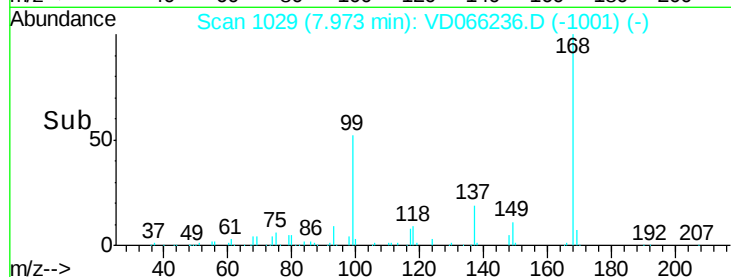
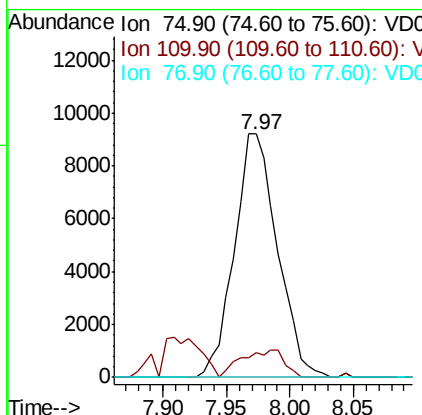
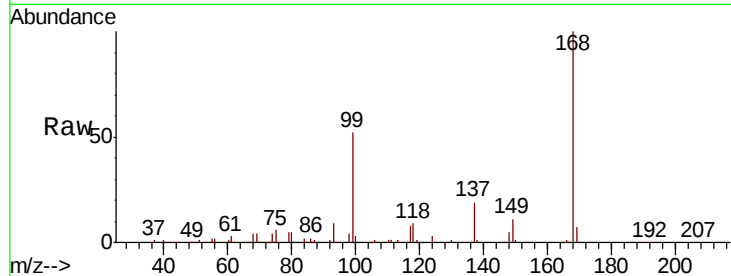




#36  
 1,1-Dichloropropene  
 Concen: 4.433 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066236.D  
 Acq: 14 Aug 2020 15:03

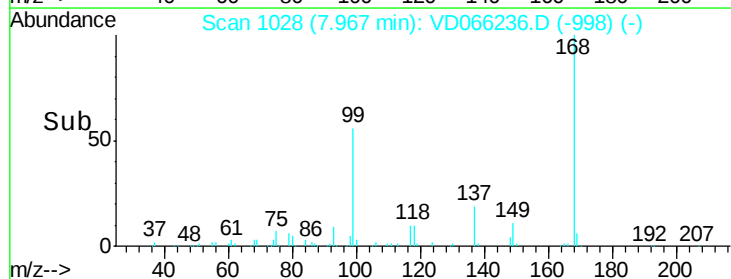
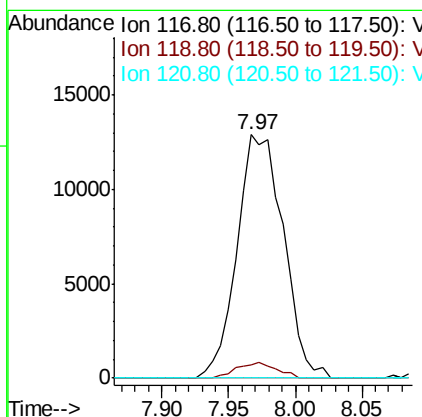
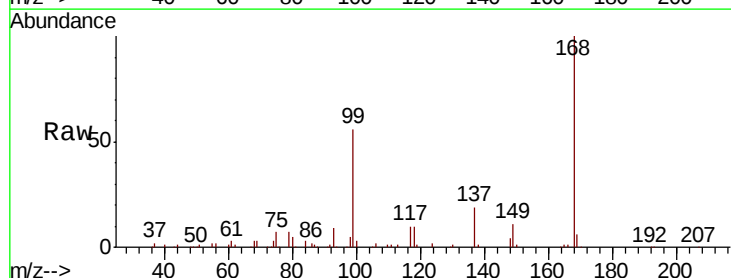
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 S415-K-SO-2-2.5-081220

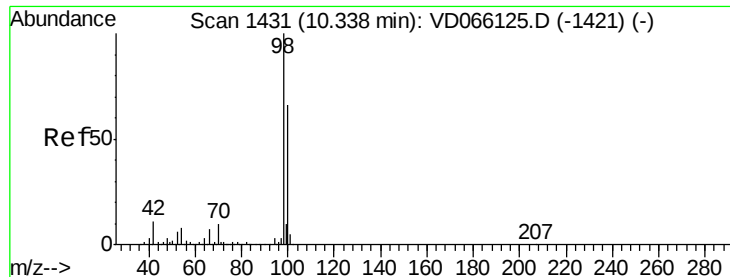
| Tot Ion   | 75   | Resp  | 21704 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 75        | 100  |       |       |
| 110       | 11.1 | 18.8  | 56.3# |
| 77        | 0.0  | 24.2  | 36.2# |



#38  
 Carbon Tetrachloride  
 Concen: 5.677 ug/l  
 RT: 7.97 min Scan# 1028  
 Delta R.T. -0.12 min  
 Lab File: VD066236.D  
 Acq: 14 Aug 2020 15:03

| Tgt Ion                                              | 117 | Resp  | 30992  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 5.5 | 81.0  | 121.4# |
| 121                                                  | 0.0 | 24.8  | 37.2#  |





#50

Toluene-d8

Concen: 52.340 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

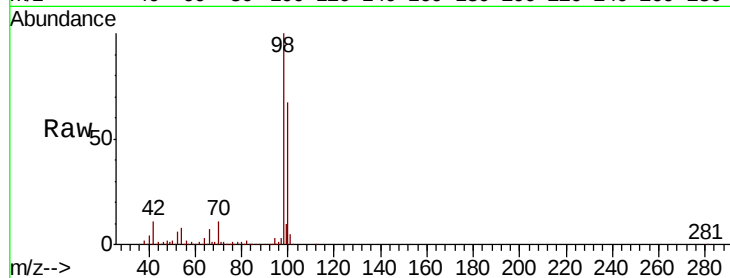
S415-K-SO-2-2.5-081220

Tot Ion: 98 Resp: 637453

Ion Ratio Lower Upper

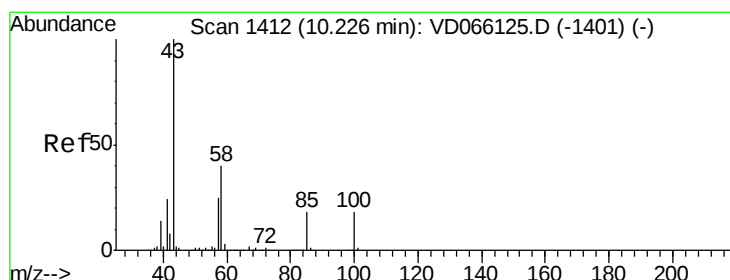
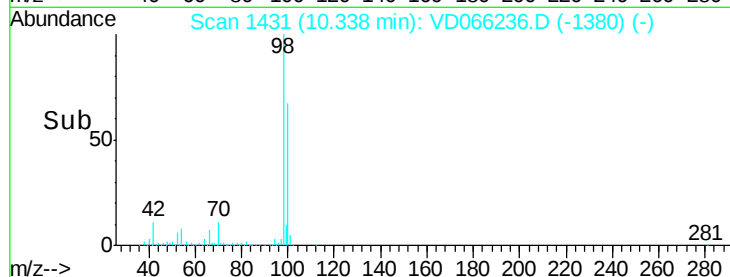
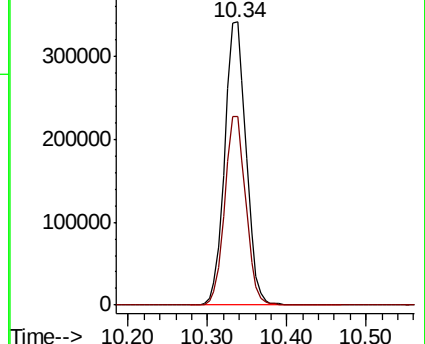
98 100

100 65.8 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.390 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.11 min

Lab File: VD066236.D

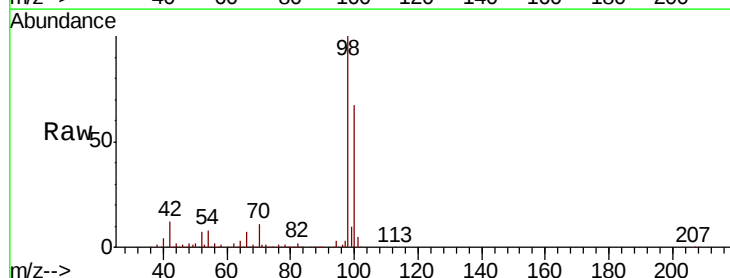
Acq: 14 Aug 2020 15:03

Tgt Ion: 43 Resp: 2729

Ion Ratio Lower Upper

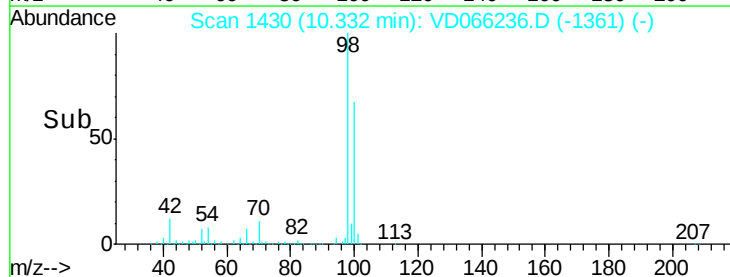
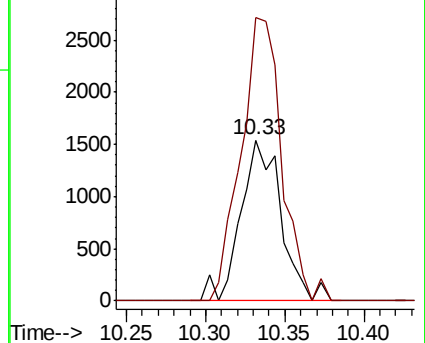
43 100

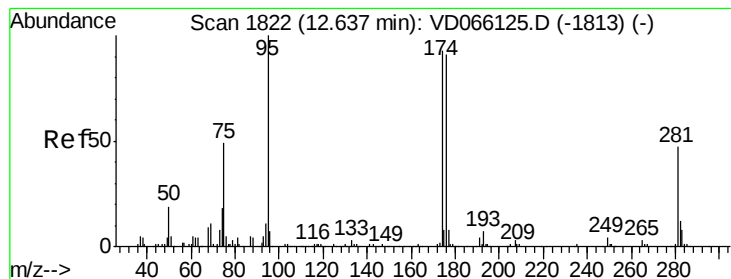
58 177.8 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 70.406 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

S415-K-SO-2-2.5-081220

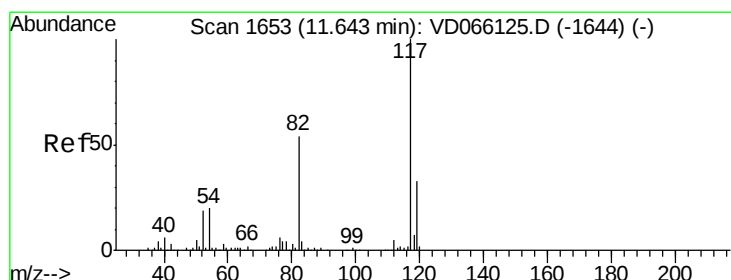
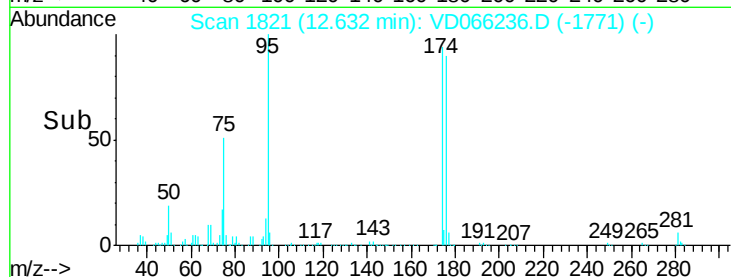
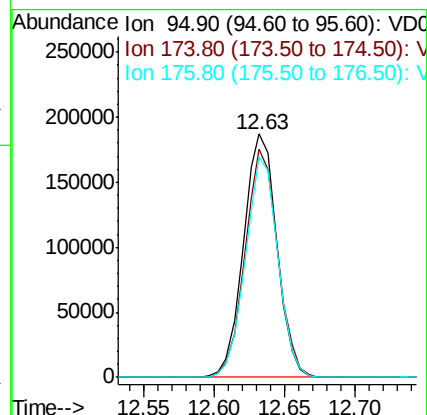
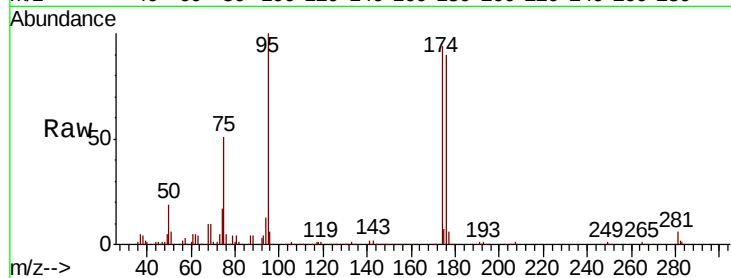
Tot Ion: 95 Resp: 309088

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.8

176 88.5 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: VD066236.D

Acq: 14 Aug 2020 15:03

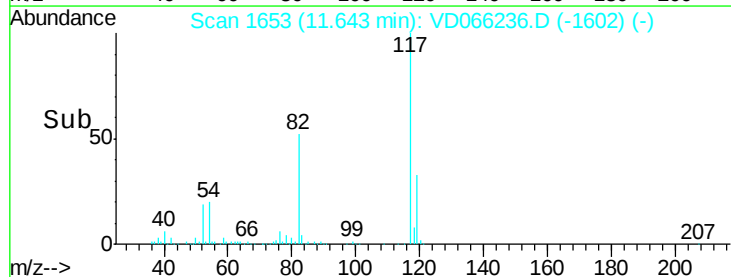
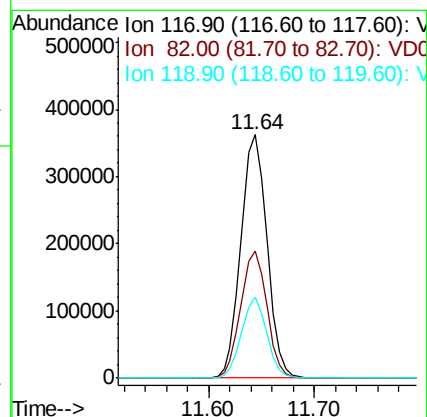
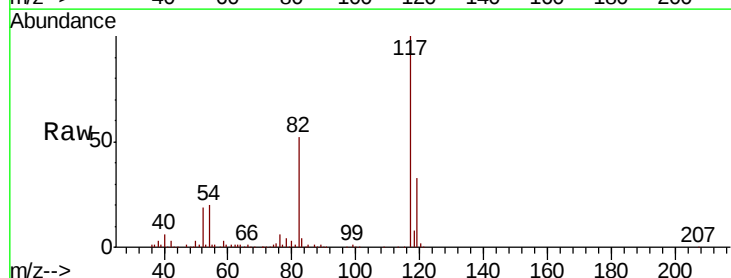
Tgt Ion: 117 Resp: 621459

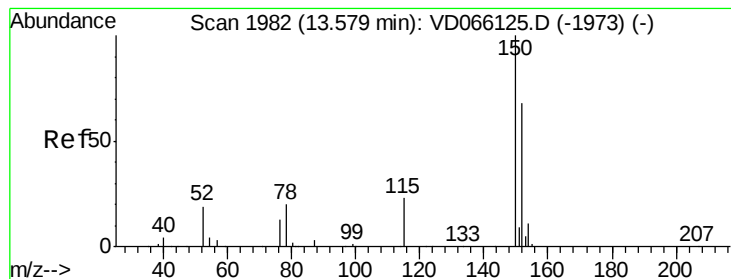
Ion Ratio Lower Upper

117 100

82 52.0 43.0 64.4

119 33.1 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: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

S415-K-SO-2-2.5-081220

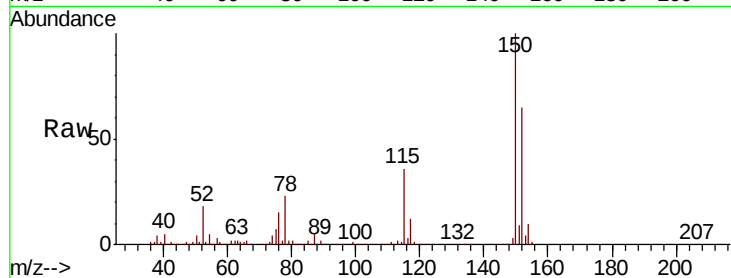
Tot Ion:152 Resp: 353667

Ion Ratio Lower Upper

152 100

115 56.4 28.0 83.9

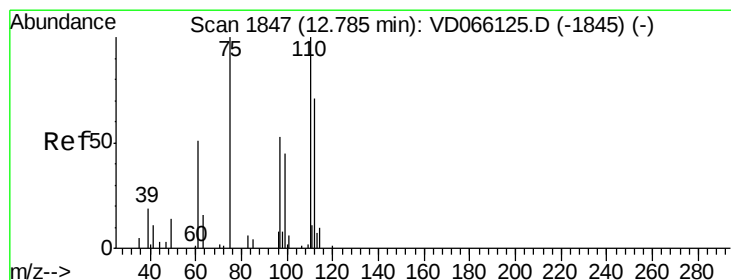
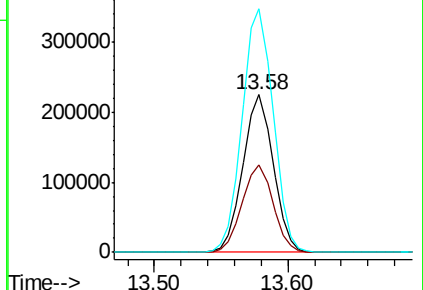
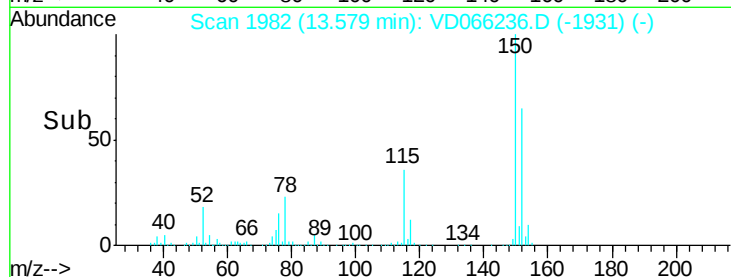
150 158.0 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 53.785 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066236.D

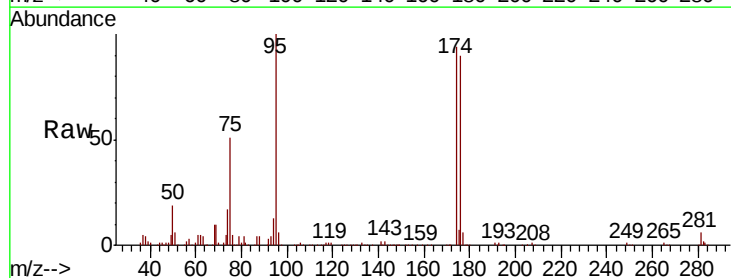
Acq: 14 Aug 2020 15:03

Tgt Ion: 75 Resp: 158630

Ion Ratio Lower Upper

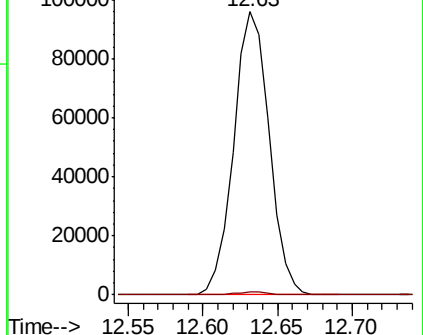
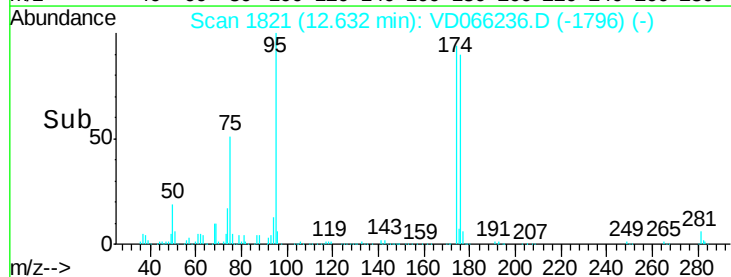
75 100

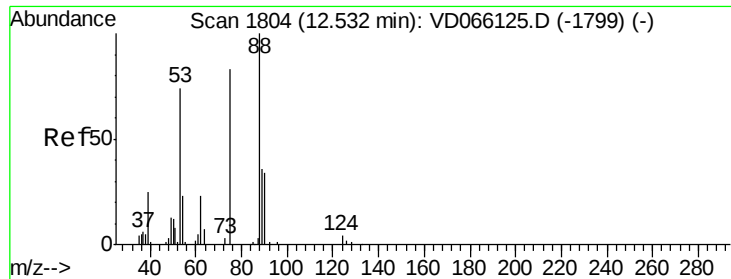
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 118.895 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066236.D

Acq: 14 Aug 2020 15:03

Instrument :

MSVOA\_D

ClientSampleId :

S415-K-SO-2-2.5-081220

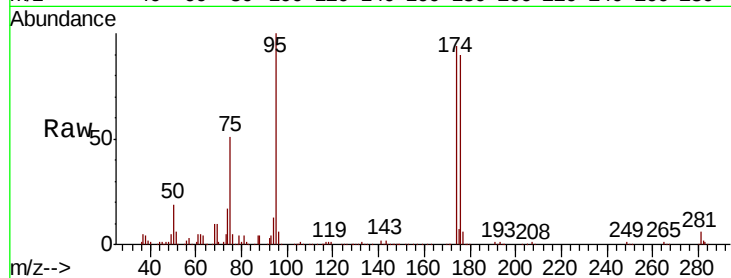
Tot Ion: 75 Resp: 158630

Ion Ratio Lower Upper

75 100

53 0.0 73.4 110.2#

89 0.1 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

