

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082120\  
 Data File : VD066368.D  
 Acq On : 21 Aug 2020 19:14  
 Operator : VA/SY  
 Sample : L3747-01RE  
 Misc : 6.36G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 340

Quant Time: Aug 22 02:23:58 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  | 198064   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 298044   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 271499   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 88818    | 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   | 105896   | 54.53  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.06% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 90209    | 48.40  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.80%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 342238   | 50.19  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.38% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 109976   | 45.45  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 90.90%  |          |

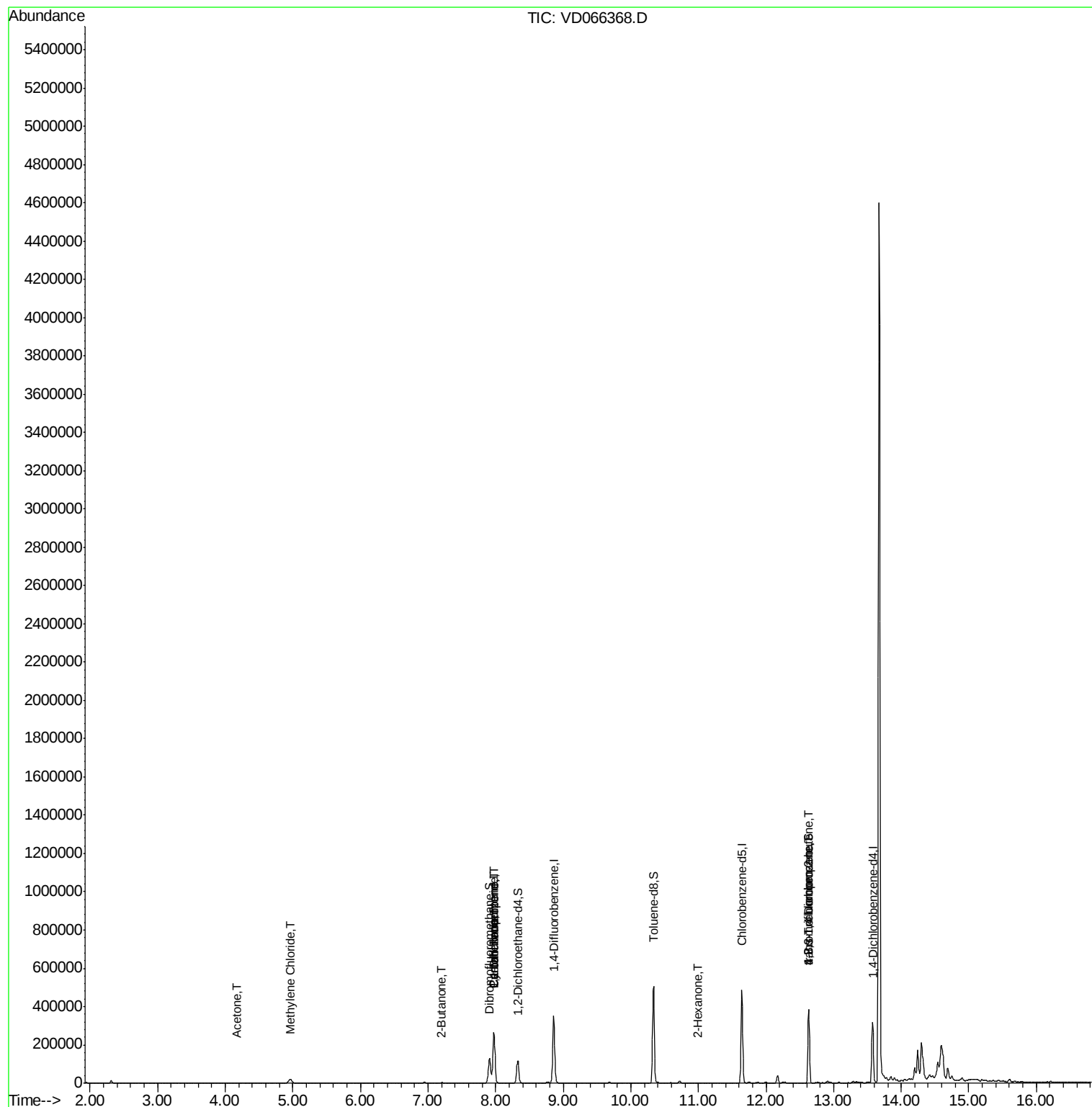
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 472      | Below Cal | #      | 71     |
| 16) Acetone                    | 4.17  | 43   | 2465     | 7.041     | ug/l   | 97     |
| 20) Methylene Chloride         | 4.97  | 84   | 15566    | 2.277     | ug/l   | 92     |
| 25) 2-Butanone                 | 7.21  | 43   | 423      | 1.064     | ug/l # | 47     |
| 31) Cyclohexane                | 7.97  | 56   | 4160     | 1.543     | ug/l # | 55     |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 14398    | 5.294     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 19554    | 5.519     | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.98 | 43   | 753      | 1.189     | ug/l   | 64     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 62993    | 100.815   | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 62993    | 213.997   | ug/l # | 6      |

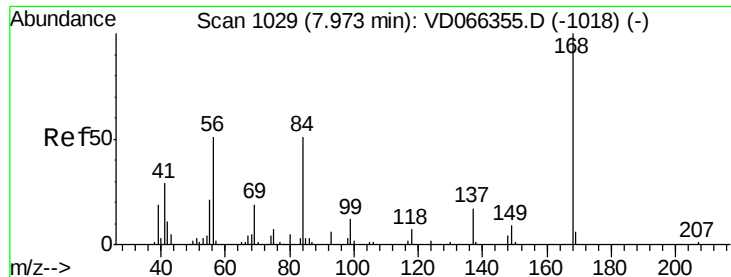
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082120\  
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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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340

Quant Time: Aug 22 02:23:58 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: VD066368.D

Acq: 21 Aug 2020 19:14

Instrument :

MSVOA\_D

ClientSampleId :

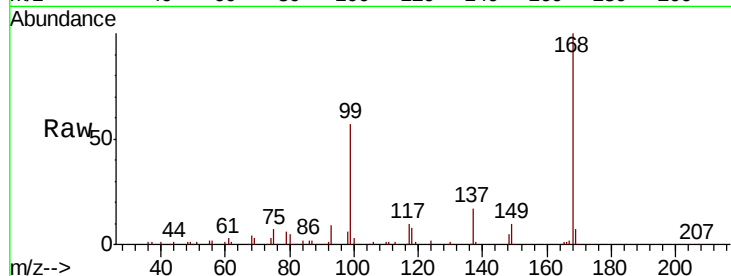
340

Tot Ion:168 Resp: 198064

Ion Ratio Lower Upper

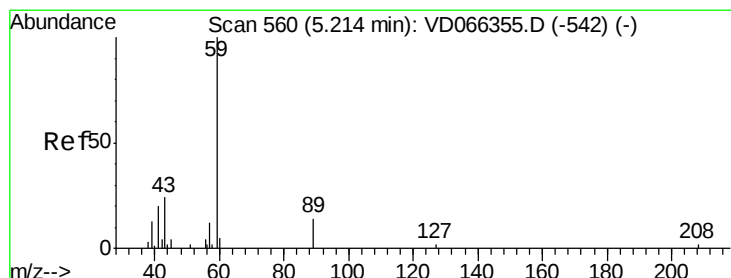
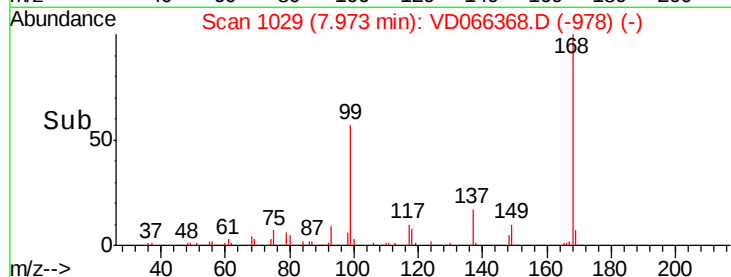
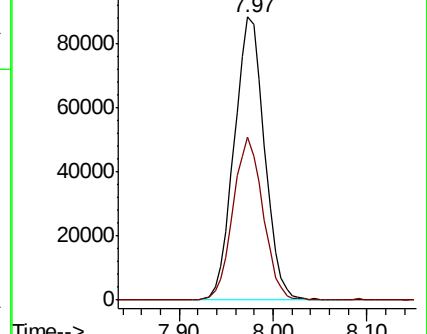
168 100

99 57.5 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD066368.D

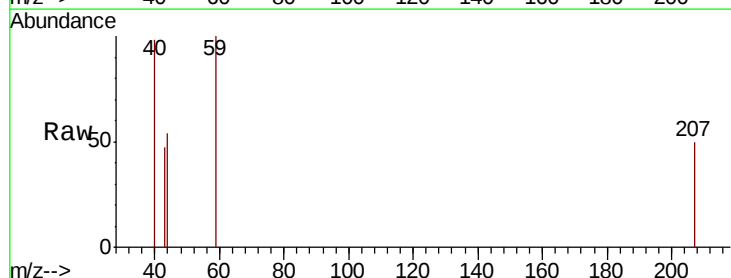
Acq: 21 Aug 2020 19:14

Tgt Ion: 59 Resp: 472

Ion Ratio Lower Upper

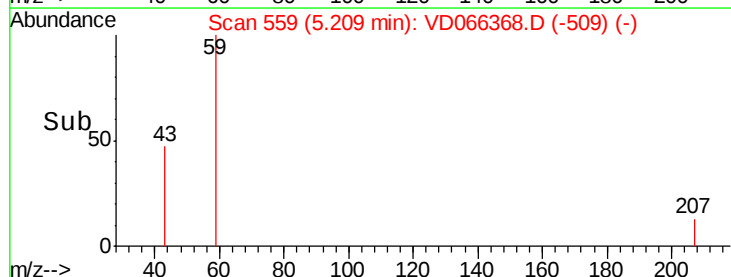
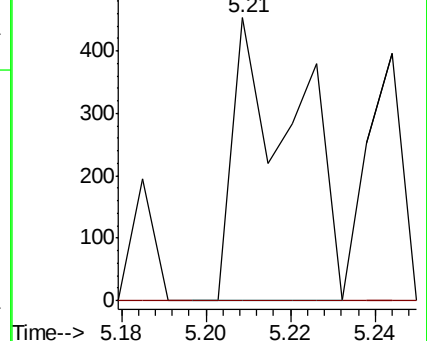
59 100

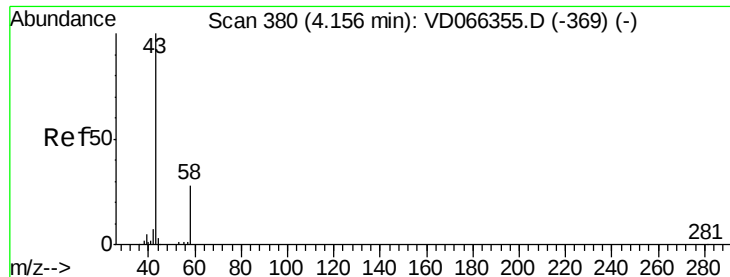
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 7.041 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

Instrument :

MSVOA\_D

ClientSampleId :

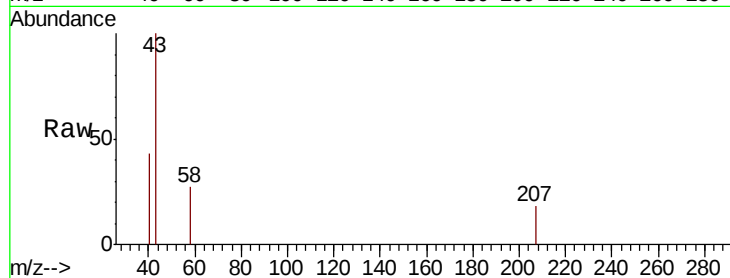
340

Tot Ion: 43 Resp: 2465

Ion Ratio Lower Upper

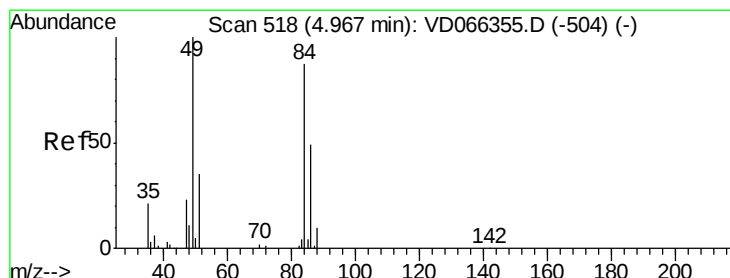
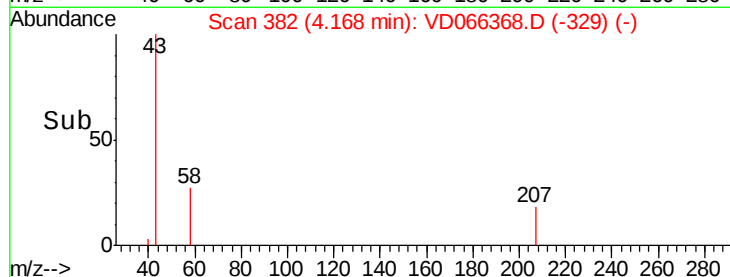
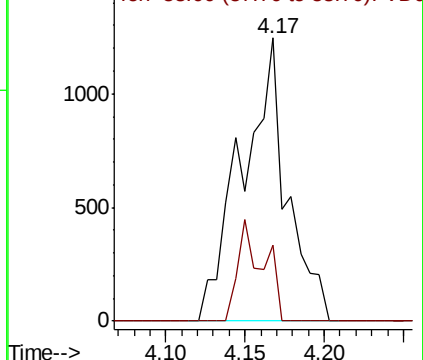
43 100

58 26.8 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 2.277 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

Tgt Ion: 84 Resp: 15566

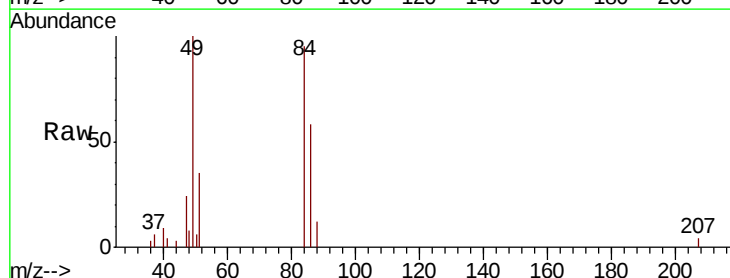
Ion Ratio Lower Upper

84 100

49 105.5 92.5 138.7

51 37.1 32.5 48.7

86 61.4 45.0 67.6

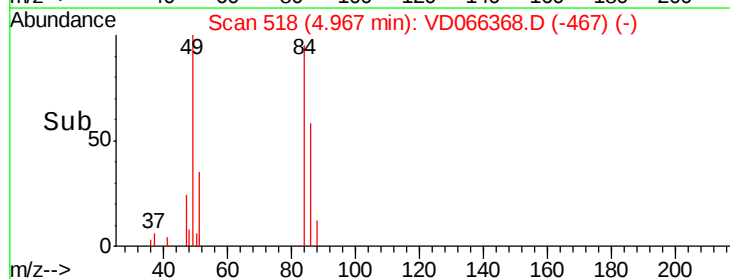
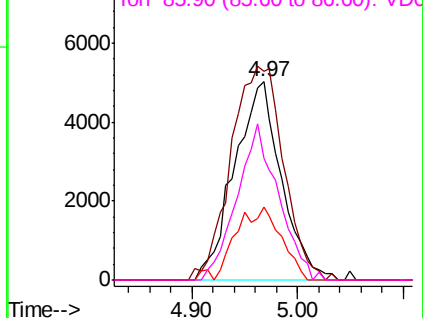


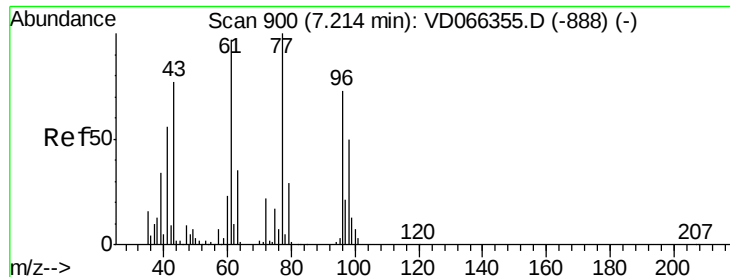
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 1.064 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

Instrument :

MSVOA\_D

ClientSampled :

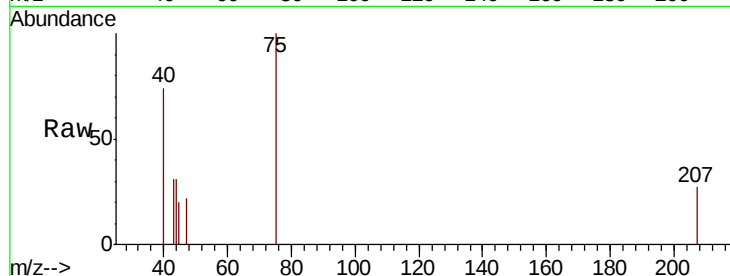
340

Tot Ion: 43 Resp: 423

Ion Ratio Lower Upper

43 100

72 0.0 22.5 33.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.21

300

250

200

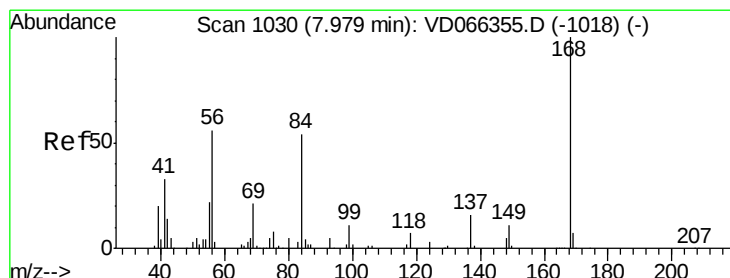
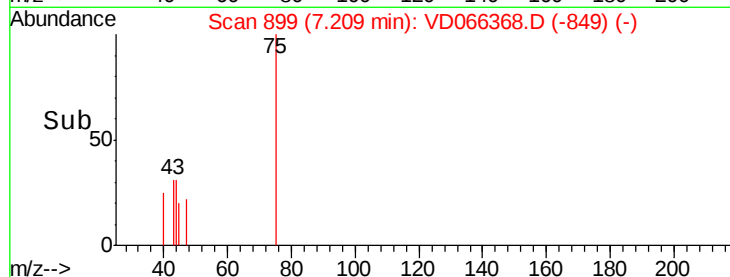
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.543 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

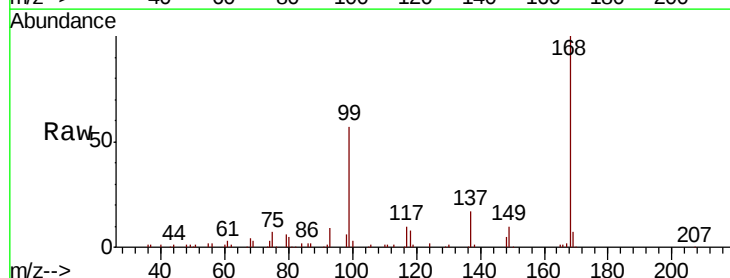
Tgt Ion: 56 Resp: 4160

Ion Ratio Lower Upper

56 100

69 130.6 29.6 44.4#

84 98.0 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

6000

5000

4000

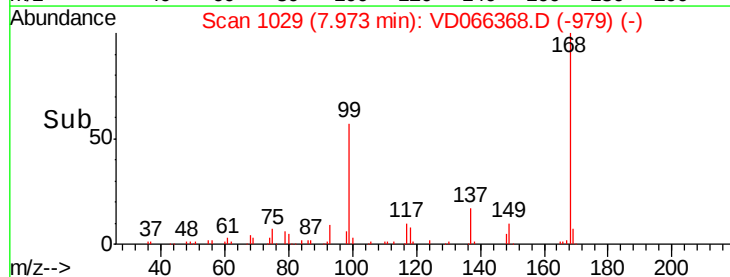
3000

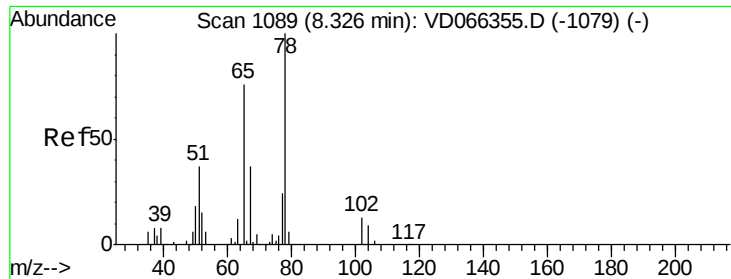
2000

1000

0

Time-->

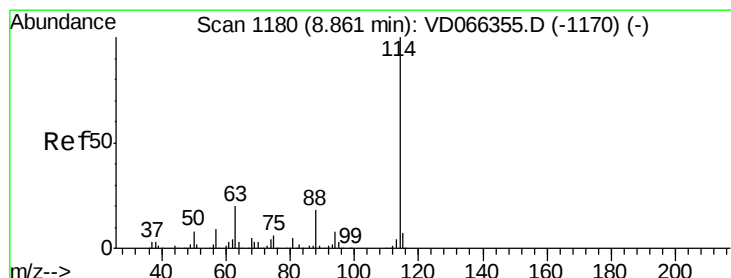
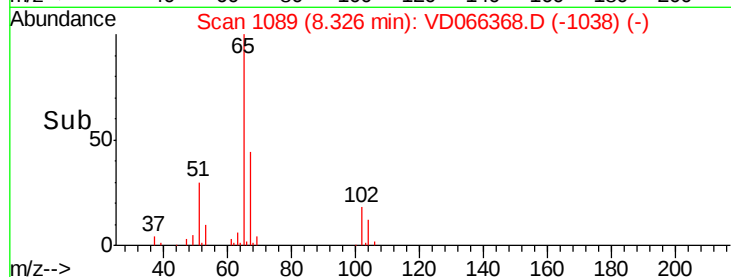
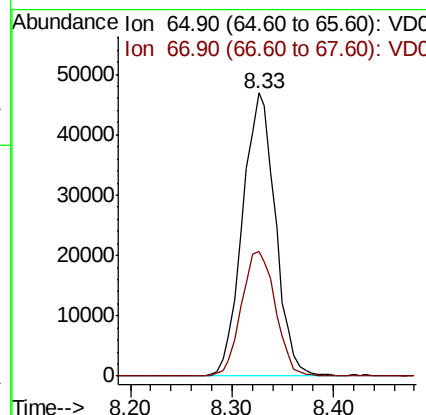
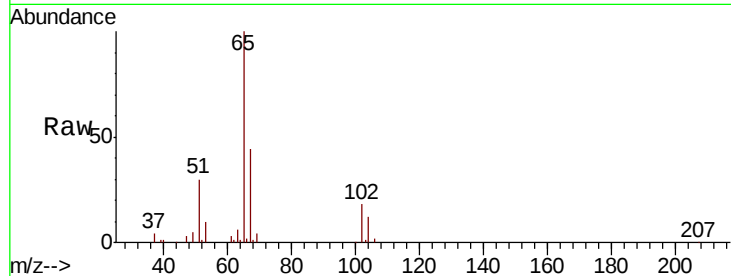




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.535 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. 0.00 min  
 Lab File: VD066368.D  
 Acq: 21 Aug 2020 19:14

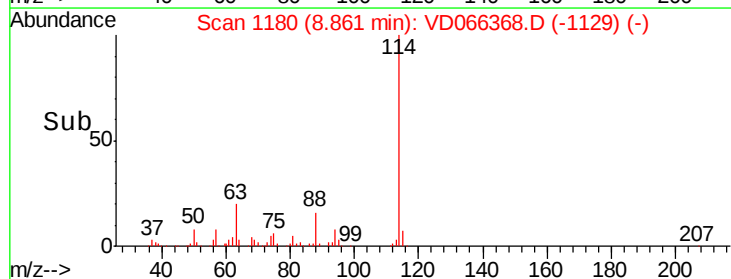
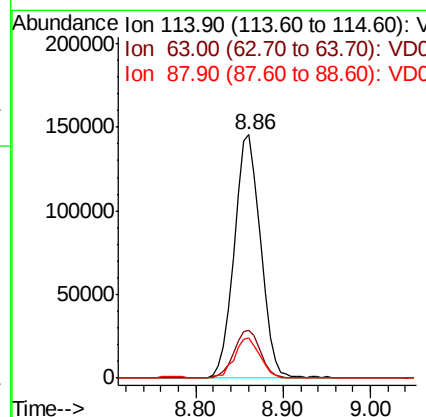
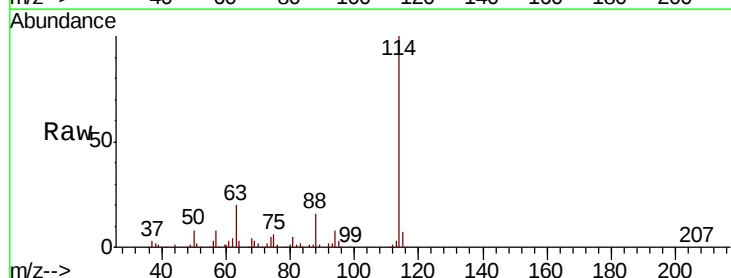
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 340

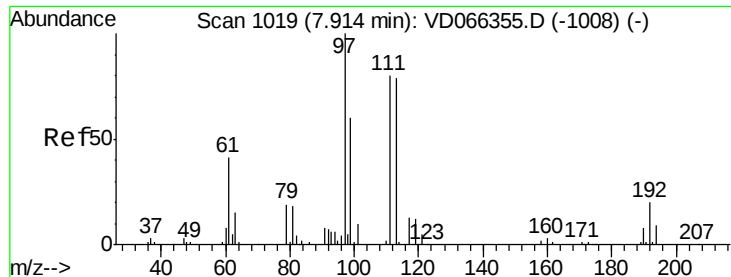
Tot Ion: 65 Resp: 105896  
 Ion Ratio Lower Upper  
 65 100  
 67 45.3 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066368.D  
 Acq: 21 Aug 2020 19:14

Tgt Ion: 114 Resp: 298044  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 40.8  
 88 16.5 0.0 35.4

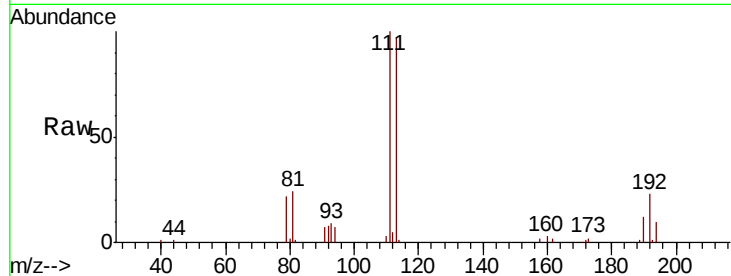




#35  
 Dibromofluoromethane  
 Concen: 48.403 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.00 min  
 Lab File: VD066368.D  
 Acq: 21 Aug 2020 19:14

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 340

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 80.3  | 120.5 |
| 192     | 23.2  | 19.0  | 28.6  |

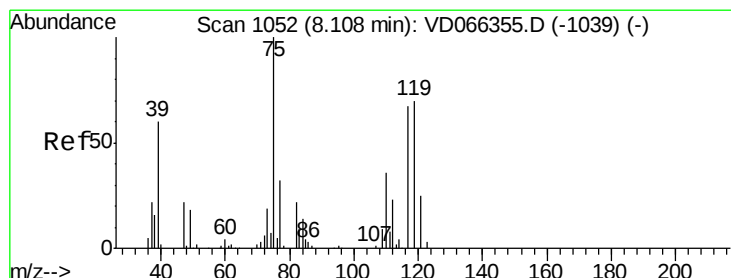
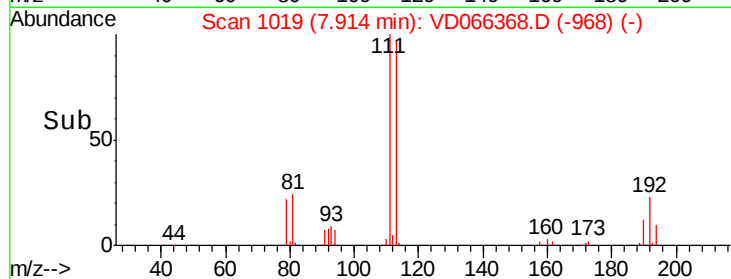
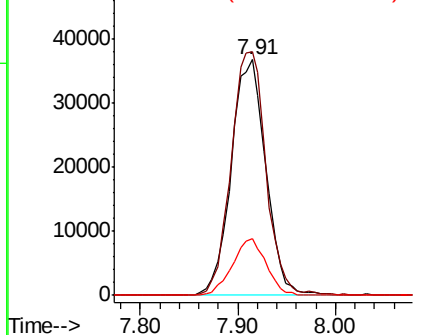


Abundance

Ion 112.80 (112.50 to 113.50): V

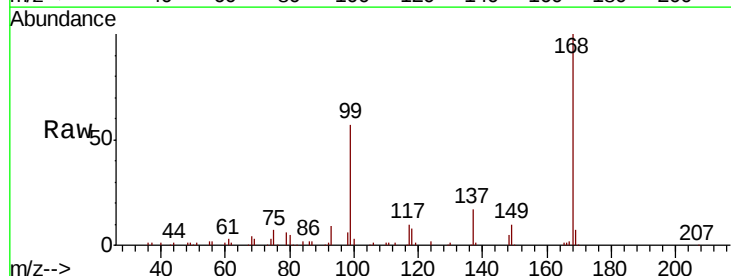
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 5.294 ug/l  
 RT: 7.97 min Scan# 1029  
 Delta R.T. -0.14 min  
 Lab File: VD066368.D  
 Acq: 21 Aug 2020 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.8  | 18.7  | 56.1# |
| 77      | 0.0   | 25.2  | 37.8# |

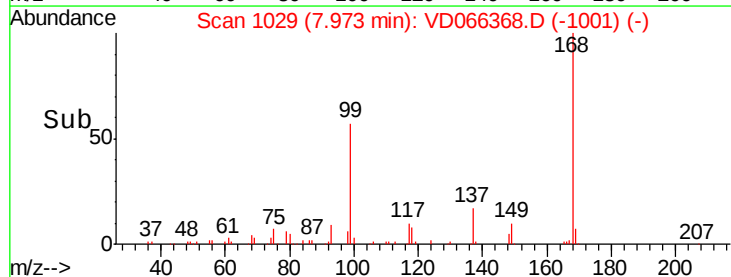
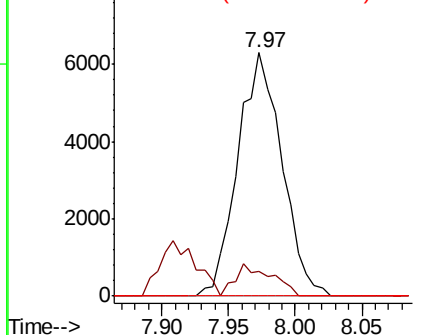


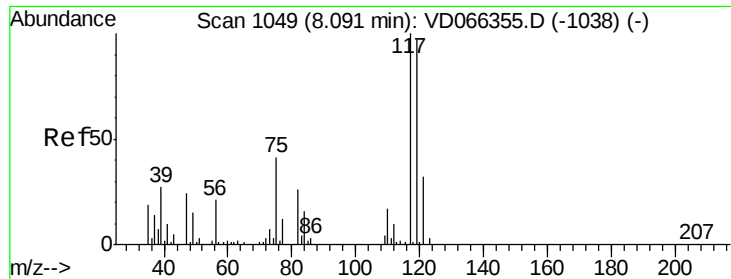
Abundance

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: 5.519 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

Instrument :

MSVOA\_D

ClientSampleId :

340

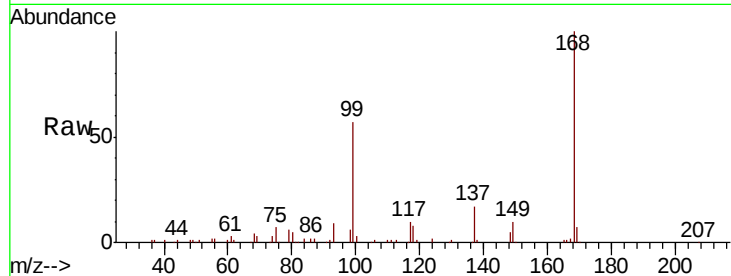
Tot Ion:117 Resp: 19554

Ion Ratio Lower Upper

117 100

119 7.2 77.2 115.8#

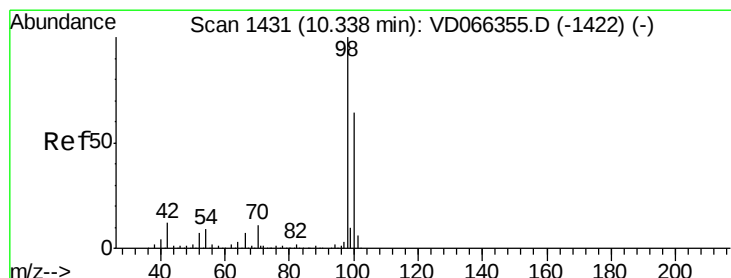
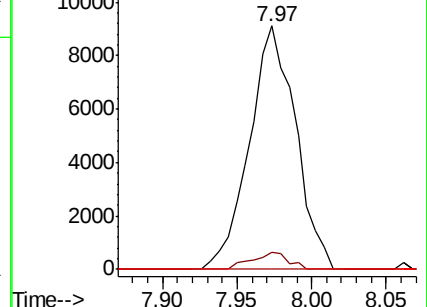
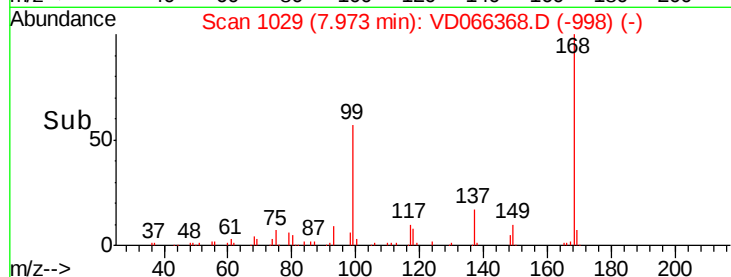
121 0.0 25.8 38.8#



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: 50.189 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066368.D

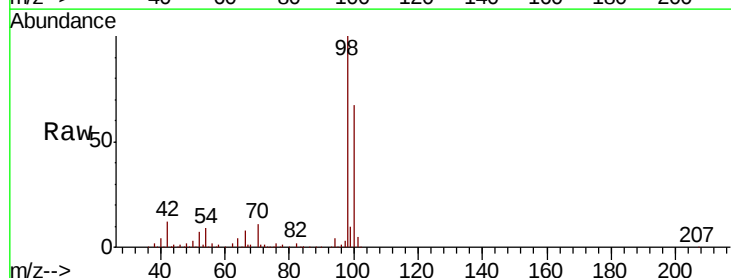
Acq: 21 Aug 2020 19:14

Tgt Ion: 98 Resp: 342238

Ion Ratio Lower Upper

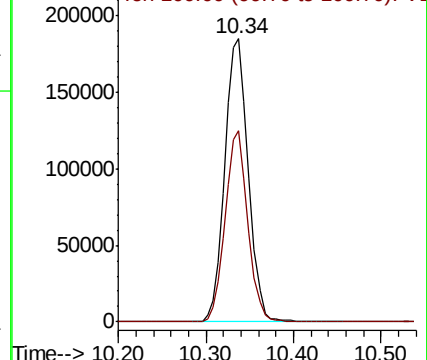
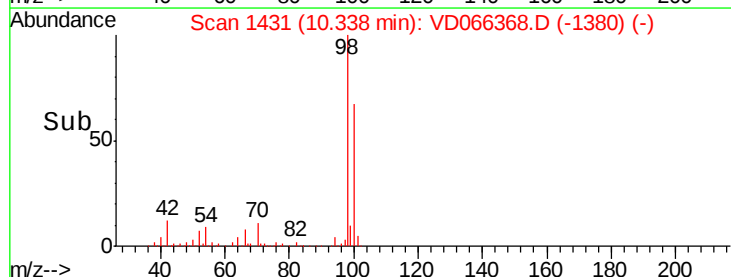
98 100

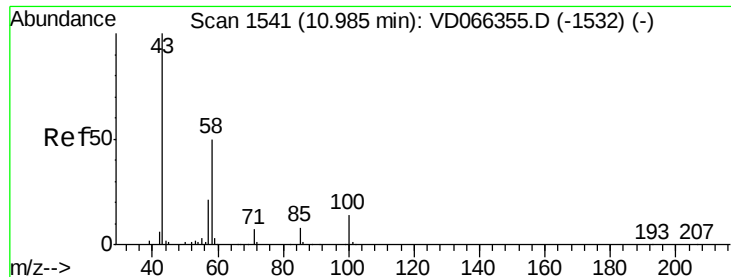
100 65.0 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

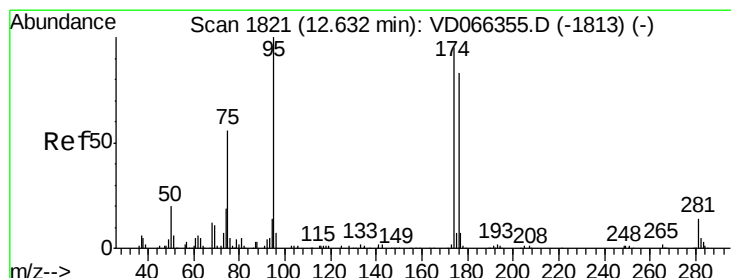
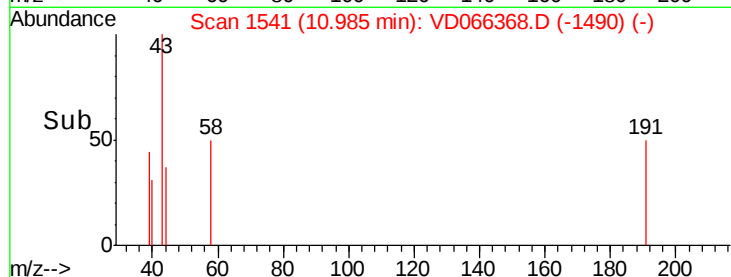
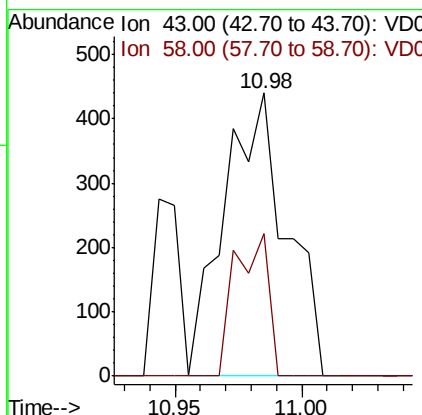
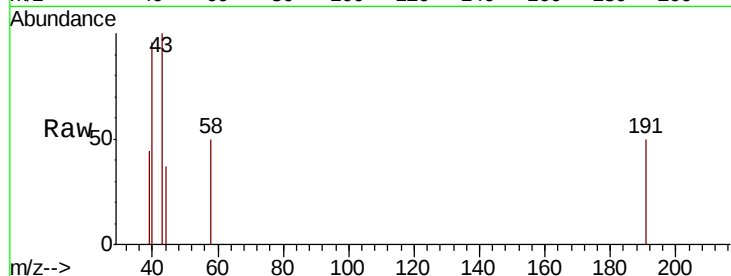




#59  
2-Hexanone  
Concen: 1.189 ug/l  
RT: 10.98 min Scan# 1541  
Delta R.T. 0.00 min  
Lab File: VD066368.D  
Acq: 21 Aug 2020 19:14

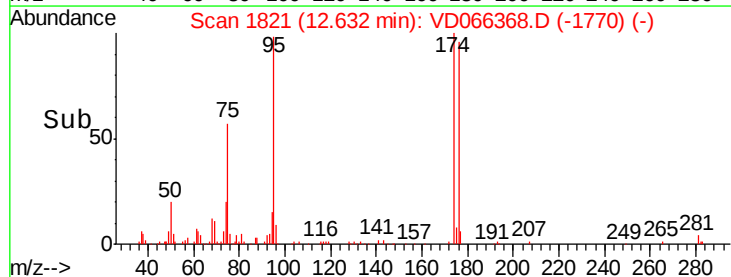
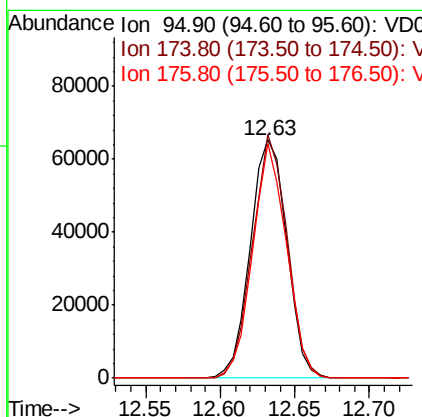
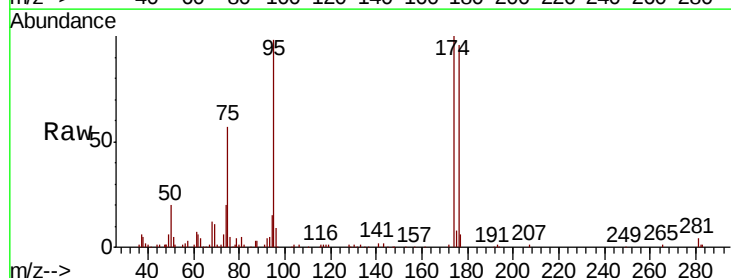
Instrument :  
MSVOA\_D  
ClientSampleId :  
340

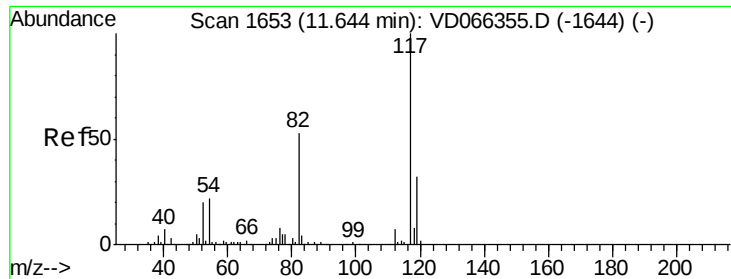
Tot Ion: 43 Resp: 753  
Ion Ratio Lower Upper  
43 100  
58 27.0 26.3 78.8



#62  
4-Bromofluorobenzene  
Concen: 45.451 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. 0.00 min  
Lab File: VD066368.D  
Acq: 21 Aug 2020 19:14

Tgt Ion: 95 Resp: 109976  
Ion Ratio Lower Upper  
95 100  
174 97.1 0.0 183.4  
176 91.4 0.0 173.8

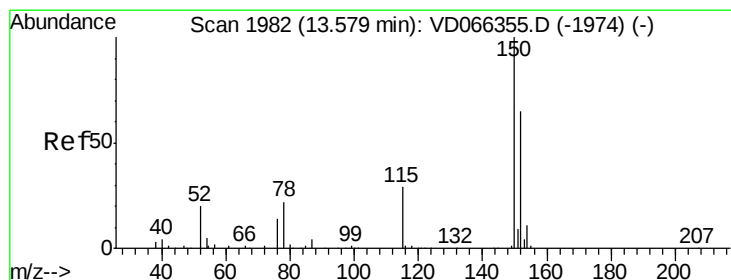
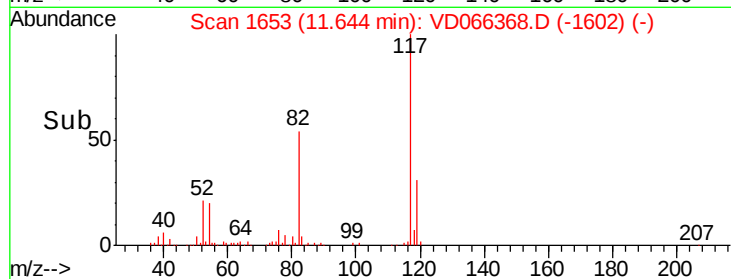
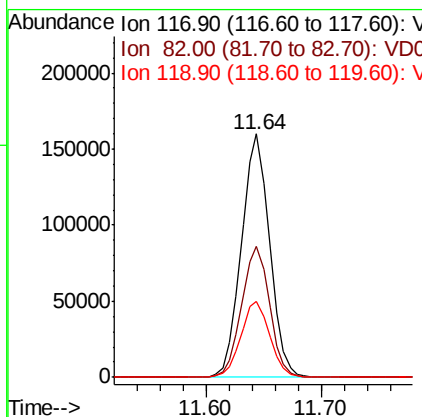
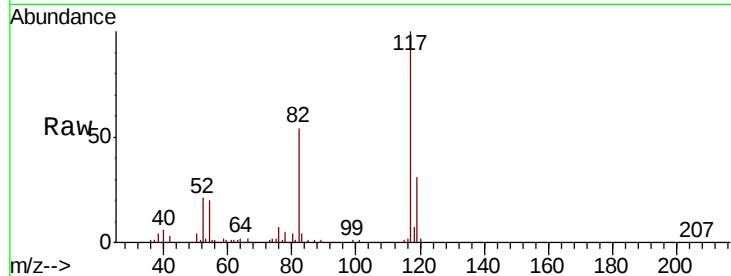




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066368.D  
Acq: 21 Aug 2020 19:14

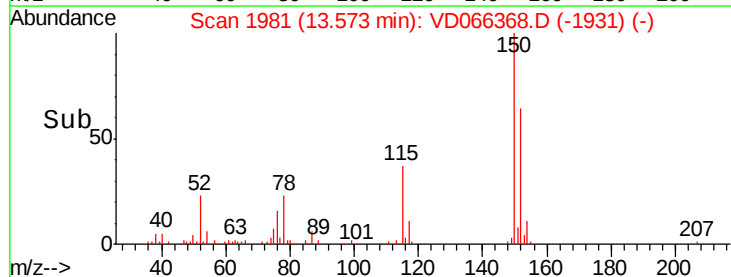
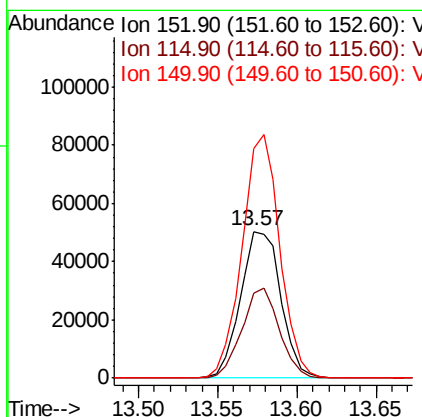
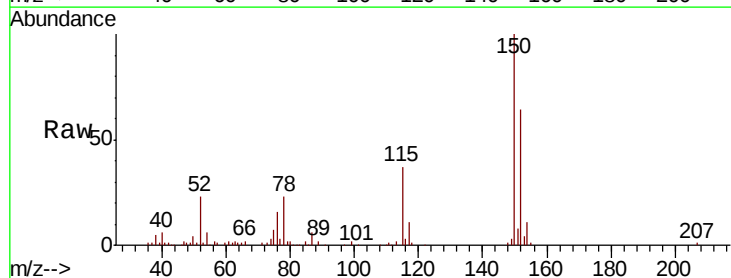
Instrument :  
MSVOA\_D  
ClientSampleId :  
340

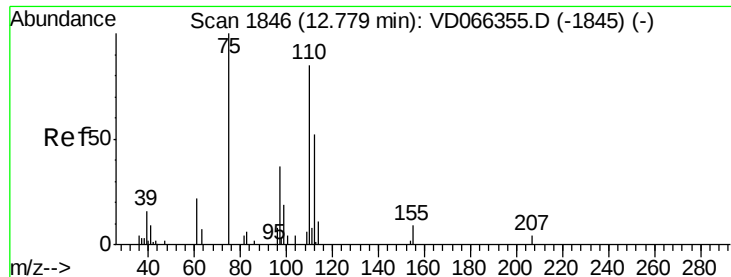
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.6  | 42.8  | 64.2  |
| 119     | 31.3  | 25.8  | 38.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1981  
Delta R.T. -0.01 min  
Lab File: VD066368.D  
Acq: 21 Aug 2020 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.2  | 28.3  | 85.0  |
| 150     | 155.1 | 0.0   | 343.2 |





#76

1,2,3-Trichloropropane

Concen: 100.815 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

Instrument :

MSVOA\_D

ClientSampleId :

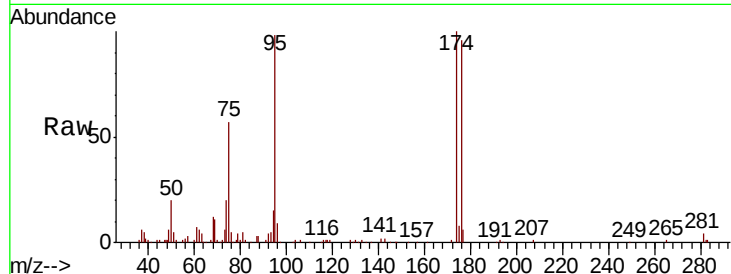
340

Tot Ion: 75 Resp: 62993

Ion Ratio Lower Upper

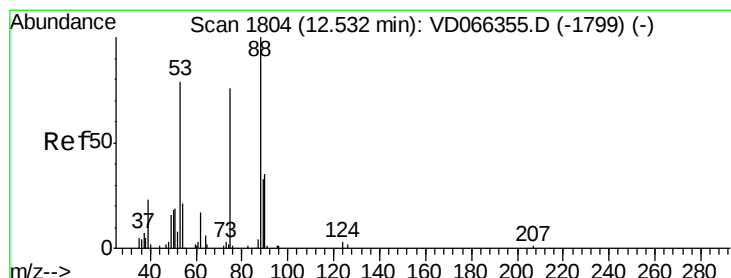
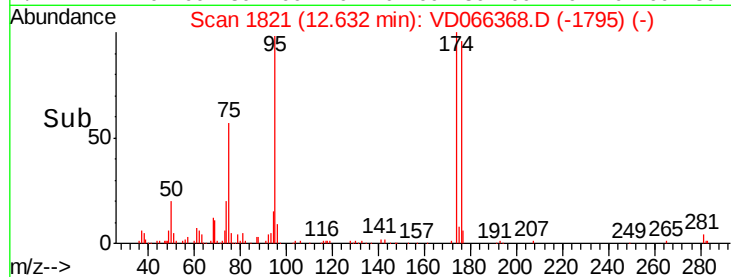
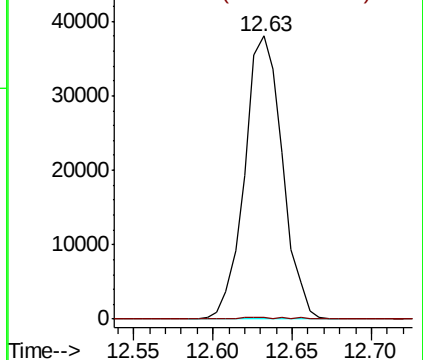
75 100

77 0.5 182.9 548.9#



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: 213.997 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066368.D

Acq: 21 Aug 2020 19:14

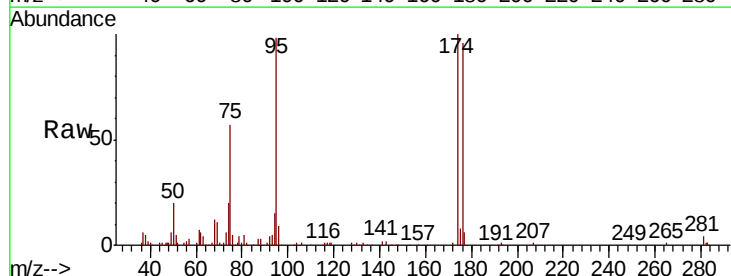
Tgt Ion: 75 Resp: 62993

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.2#

89 0.0 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

