

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\  
 Data File : VD065107.D  
 Acq On : 07 Feb 2020 13:55  
 Operator : VA/SY  
 Sample : L1431-10  
 Misc : 11.78G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11986

Quant Time: Feb 08 00:07:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 17307    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 26508    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.66 | 117  | 29637    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 14360    | 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   | 11938    | 81.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 162.32% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 10594    | 71.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 143.26% |          |
| 50) Toluene-d8              | 10.34 | 98   | 32216    | 54.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.46% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 11852    | 63.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 127.08% |          |

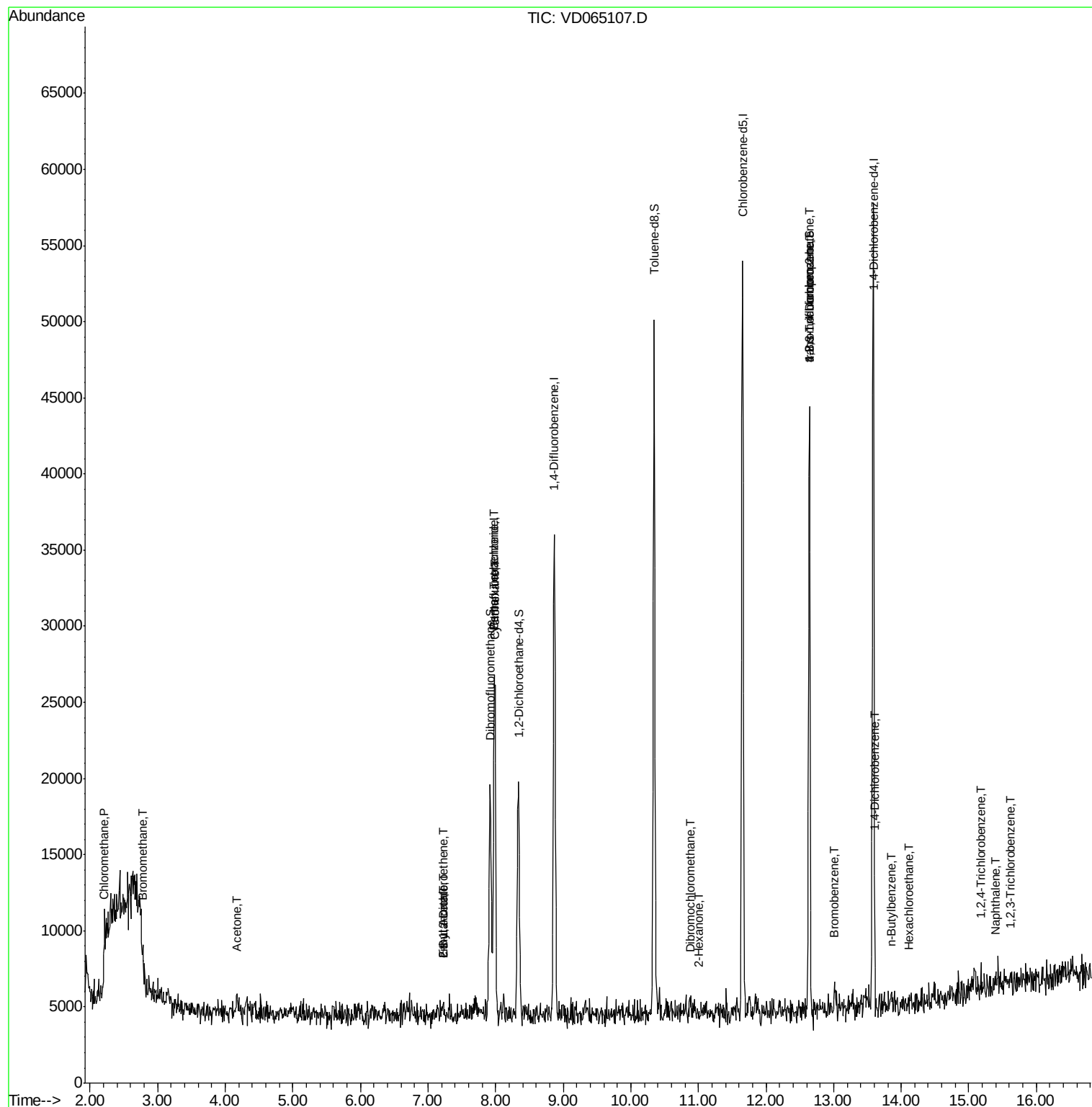
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.20  | 50   | 799      | 4.713     | ug/l # | 85     |
| 5) Bromomethane                | 2.78  | 94   | 673      | 5.789     | ug/l   | 85     |
| 16) Acetone                    | 4.16  | 43   | 2040     | 55.471    | ug/l # | 80     |
| 20) Methylene Chloride         | 4.96  | 84   | 70       | Below Cal | #      | 51     |
| 25) 2-Butanone                 | 7.23  | 43   | 121      | 2.758     | ug/l # | 50     |
| 27) cis-1,2-Dichloroethene     | 7.23  | 96   | 222      | 1.209     | ug/l # | 13     |
| 31) Cyclohexane                | 8.00  | 56   | 621      | 2.122     | ug/l # | 75     |
| 37) Ethyl Acetate              | 7.23  | 43   | 121      | 1.202     | ug/l # | 16     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 1629     | 6.471     | ug/l # | 11     |
| 59) 2-Hexanone                 | 11.00 | 43   | 94       | 1.400     | ug/l # | 26     |
| 60) Dibromochloromethane       | 10.88 | 129  | 228      | 1.497     | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 5891     | 54.185    | ug/l # | 100    |
| 77) Bromobenzene               | 13.01 | 156  | 539      | 2.270     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 5891     | 108.365   | ug/l # | 10     |
| 88) 1,4-Dichlorobenzene        | 13.61 | 146  | 456      | 1.030     | ug/l # | 74     |
| 89) n-Butylbenzene             | 13.86 | 91   | 821      | 1.008     | ug/l # | 67     |
| 90) Hexachloroethane           | 14.12 | 117  | 168      | 1.005     | ug/l # | 7      |
| 93) 1,2,4-Trichlorobenzene     | 15.17 | 180  | 423      | 1.554     | ug/l # | 25     |
| 95) Naphthalene                | 15.41 | 128  | 948      | 2.095     | ug/l # | 86     |
| 96) 1,2,3-Trichlorobenzene     | 15.61 | 180  | 312      | 1.340     | ug/l # | 29     |

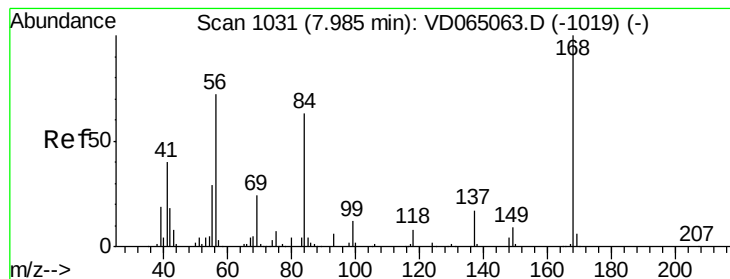
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Feb 05 15:53:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

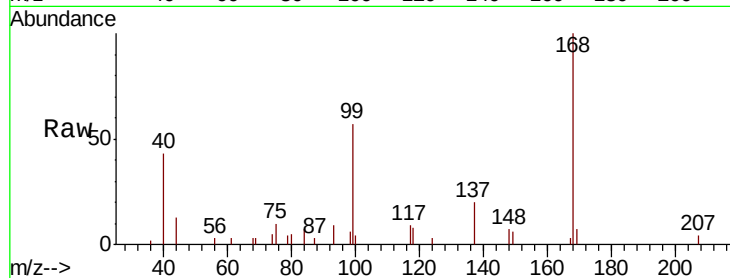
72-11986

Tot Ion:168 Resp: 17307

Ion Ratio Lower Upper

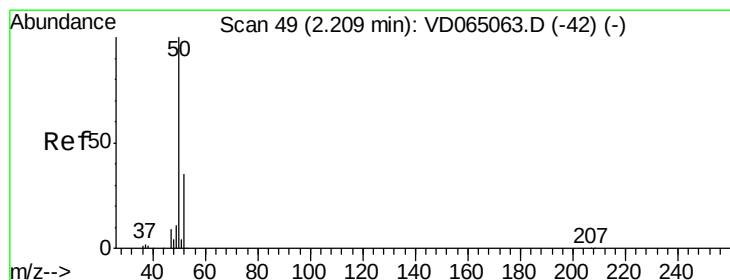
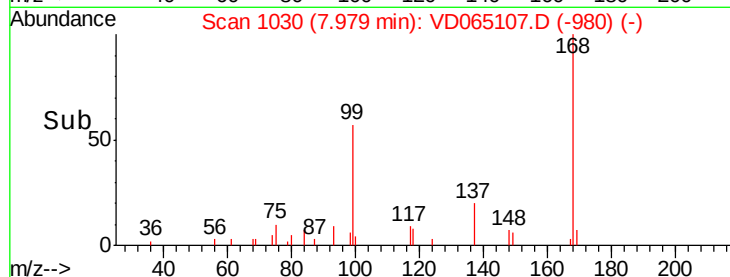
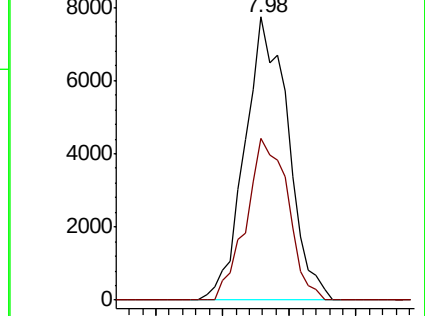
168 100

99 57.3 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 4.713 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065107.D

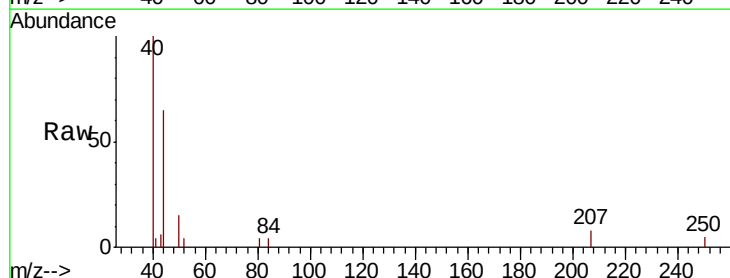
Acq: 07 Feb 2020 13:55

Tgt Ion: 50 Resp: 799

Ion Ratio Lower Upper

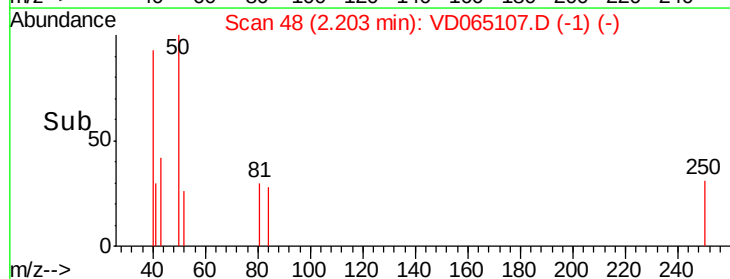
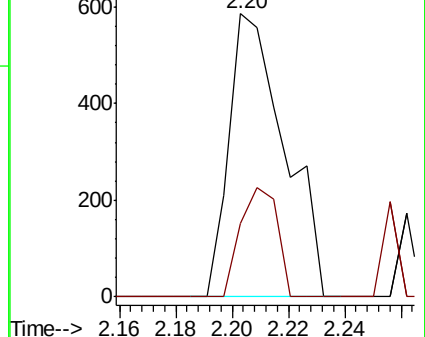
50 100

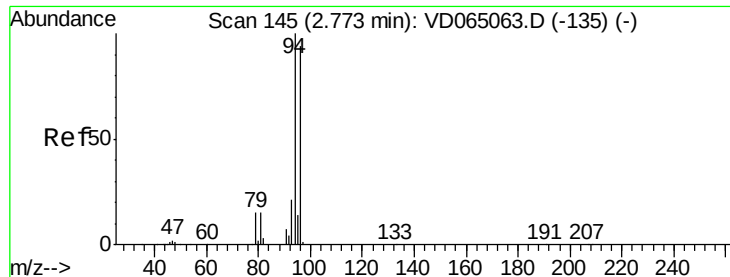
52 26.1 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.789 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

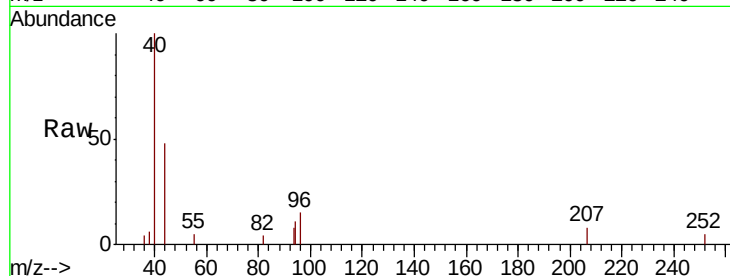
72-11986

Tot Ion: 94 Resp: 673

Ion Ratio Lower Upper

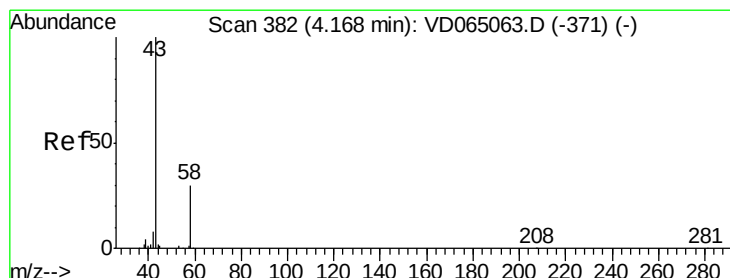
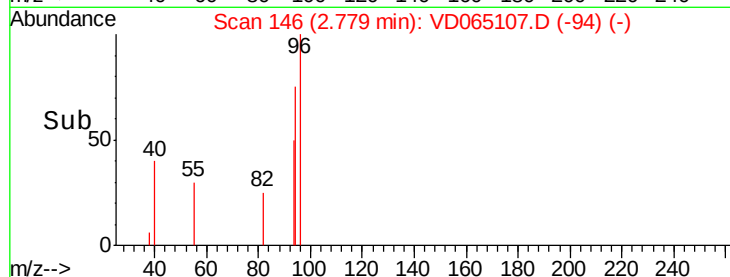
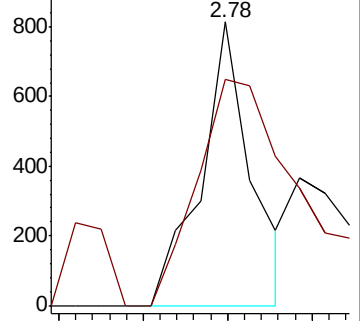
94 100

96 79.7 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#16

Acetone

Concen: 55.471 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065107.D

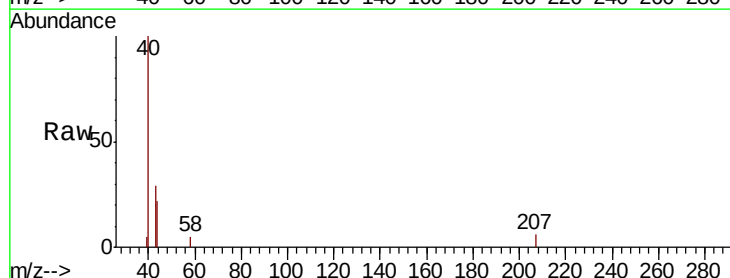
Acq: 07 Feb 2020 13:55

Tgt Ion: 43 Resp: 2040

Ion Ratio Lower Upper

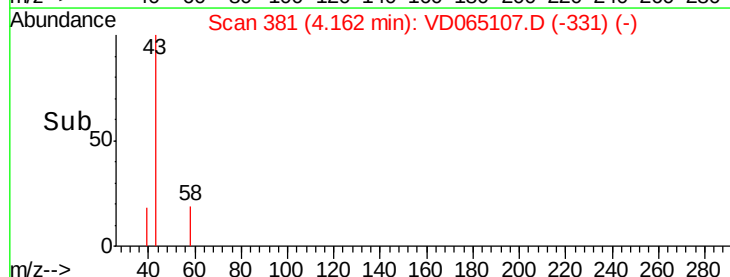
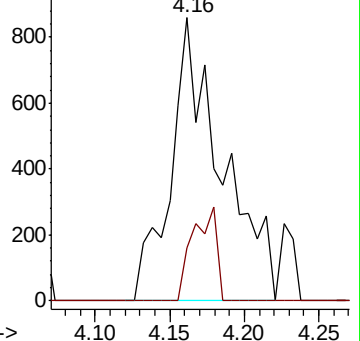
43 100

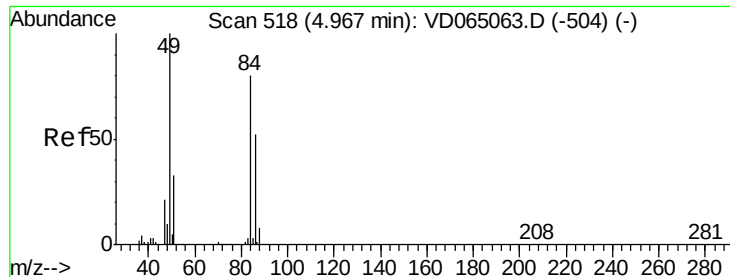
58 18.9 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

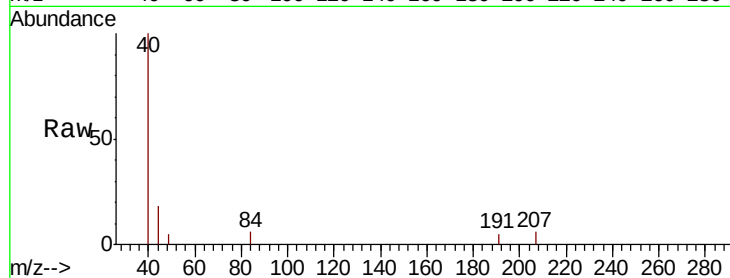




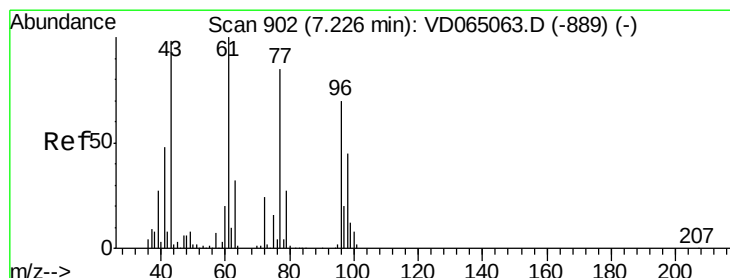
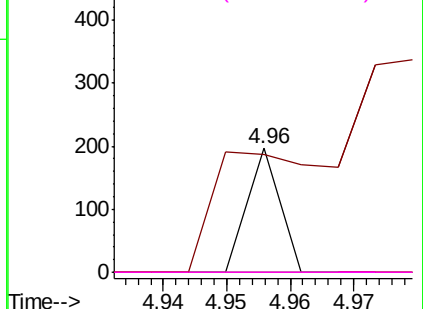
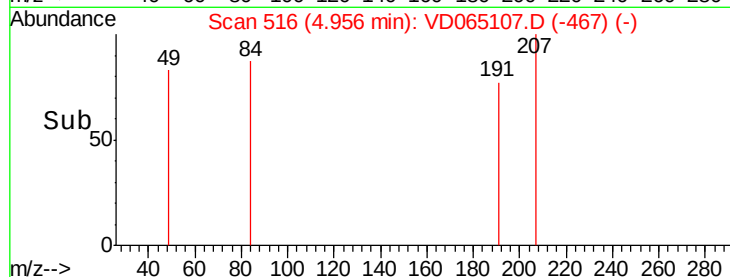
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11986

Tot Ion: 84 Resp: 70  
Ion Ratio Lower Upper  
84 100  
49 94.9 100.4 150.6#  
51 0.0 32.7 49.1#  
86 0.0 52.4 78.6#

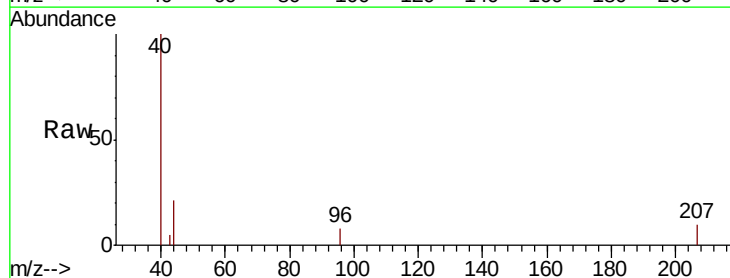


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

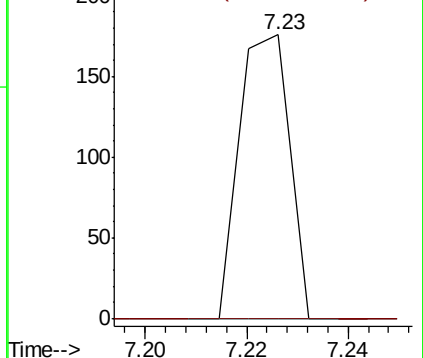
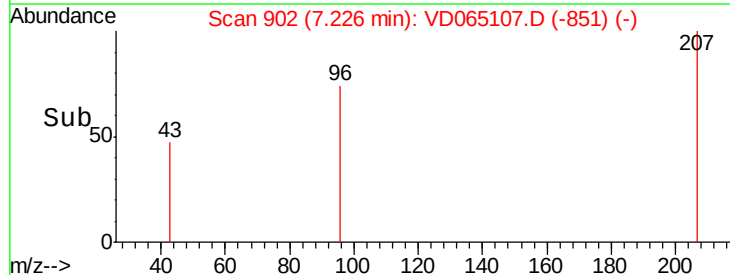


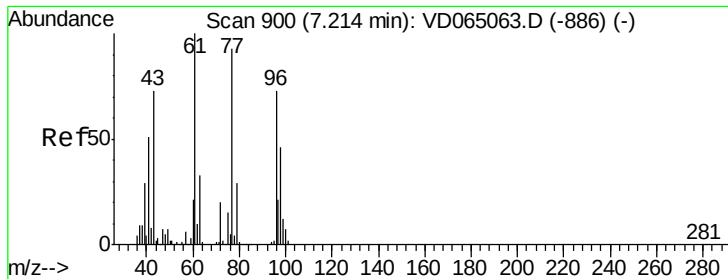
#25  
2-Butanone  
Concen: 2.758 ug/l  
RT: 7.23 min Scan# 902  
Delta R.T. 0.00 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Tgt Ion: 43 Resp: 121  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC



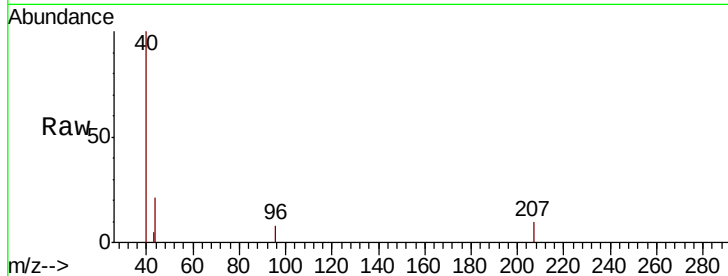


#27

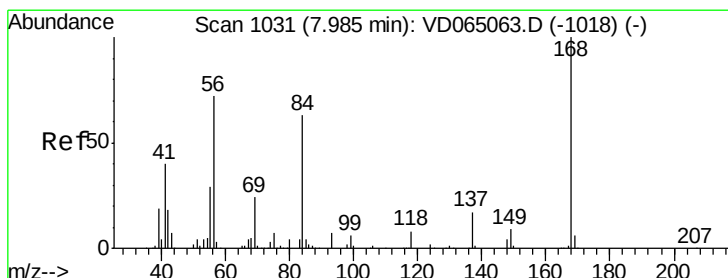
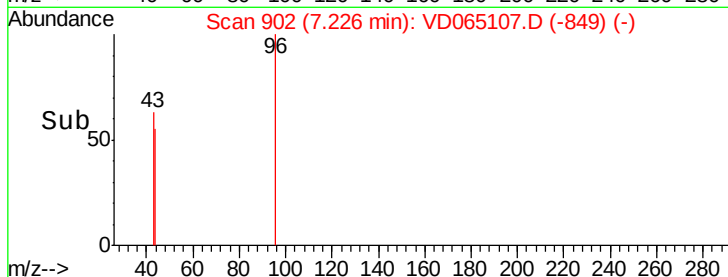
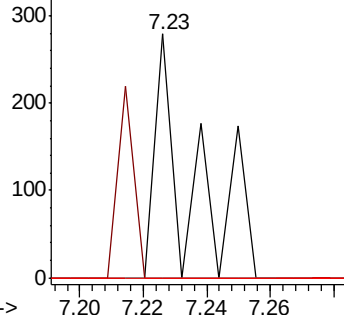
cis-1,2-Dichloroethene  
 Concen: 1.209 ug/l  
 RT: 7.23 min Scan# 902  
 Delta R.T. 0.01 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

Instrument :  
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 ClientSampleId :  
 72-11986

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 35.1  | 0.0   | 292.8 |
| 98      | 0.0   | 0.0   | 128.8 |



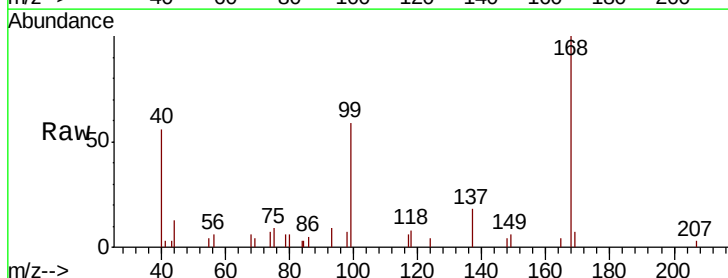
Abundance Ion 95.90 (95.60 to 96.60): VDC  
 Ion 60.90 (60.60 to 61.60): VDC  
 Ion 97.90 (97.60 to 98.60): VDC



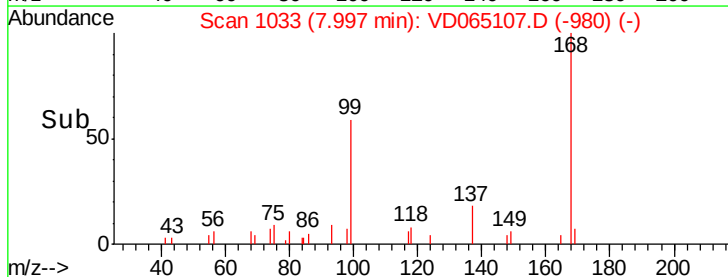
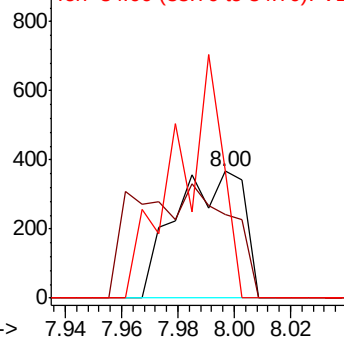
#31

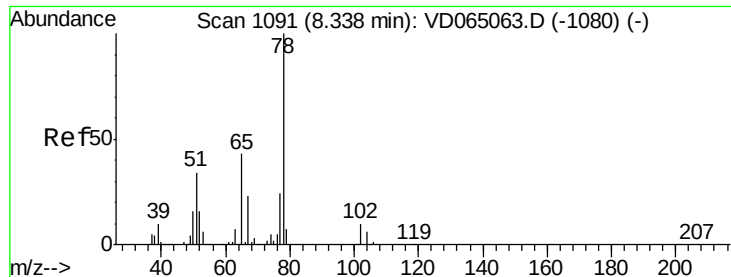
Cyclohexane  
 Concen: 2.122 ug/l  
 RT: 8.00 min Scan# 1033  
 Delta R.T. 0.01 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 66.2  | 26.6  | 40.0# |
| 84      | 100.5 | 70.6  | 106.0 |



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

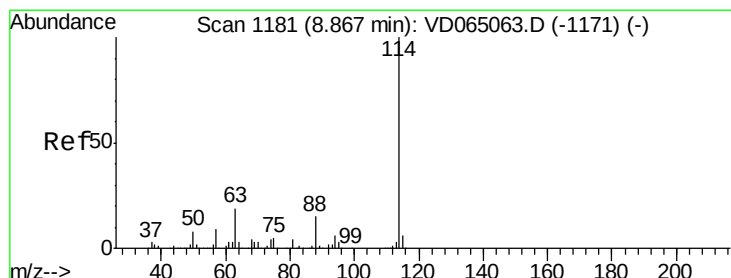
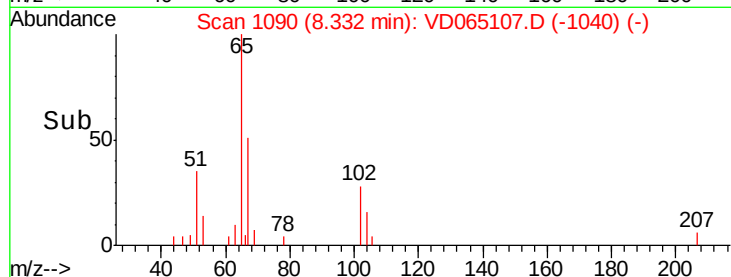
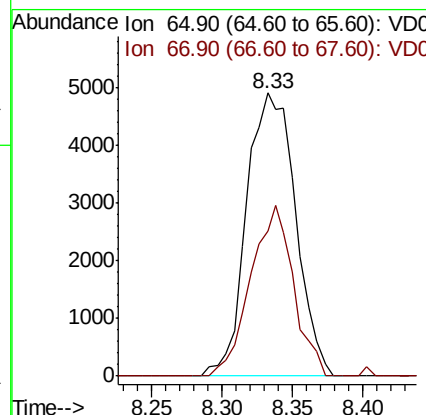
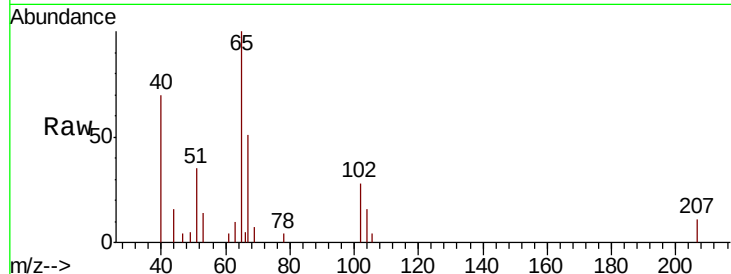




#33  
 1,2-Dichloroethane-d4  
 Concen: 81.159 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

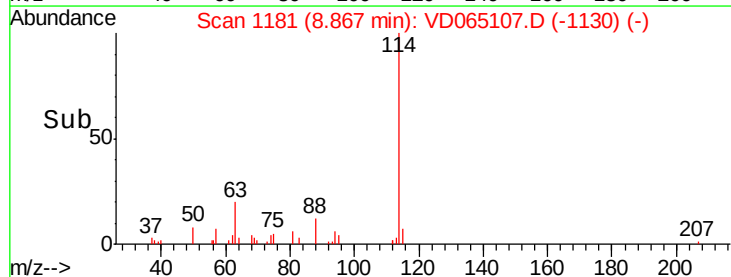
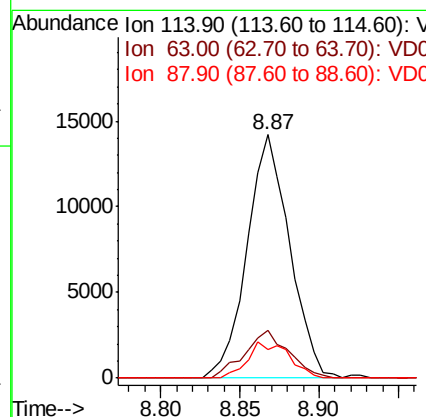
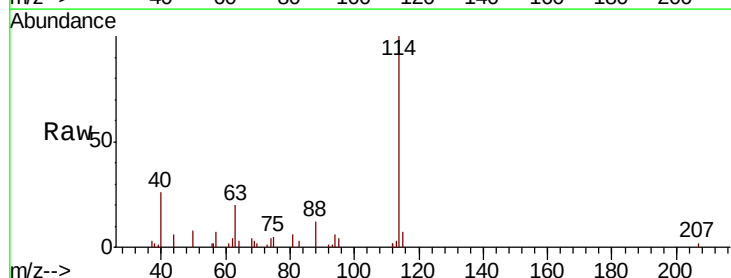
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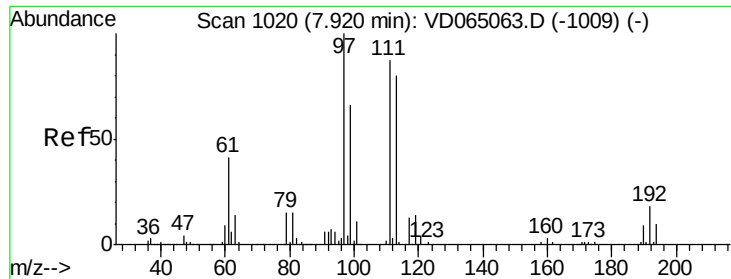
Tot Ion: 65 Resp: 11938  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

Tgt Ion: 114 Resp: 26508  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 38.8  
 88 11.7 0.0 29.6

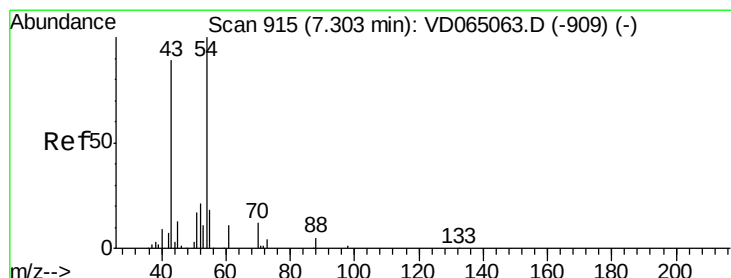
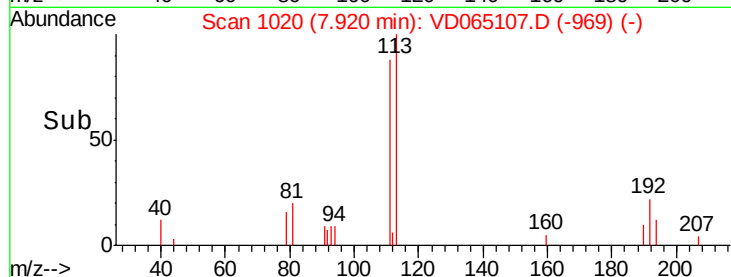
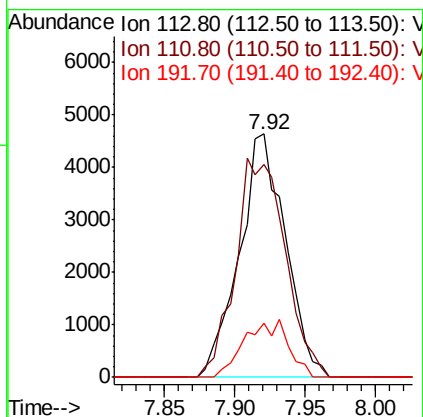
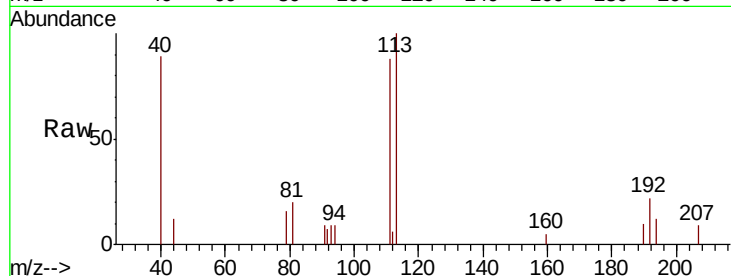




#35  
 Dibromofluoromethane  
 Concen: 71.630 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

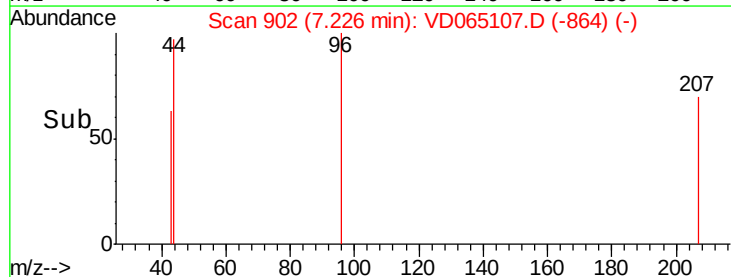
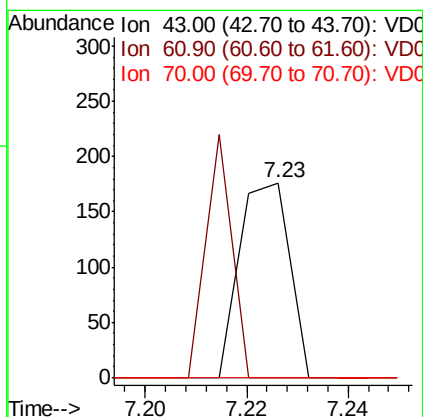
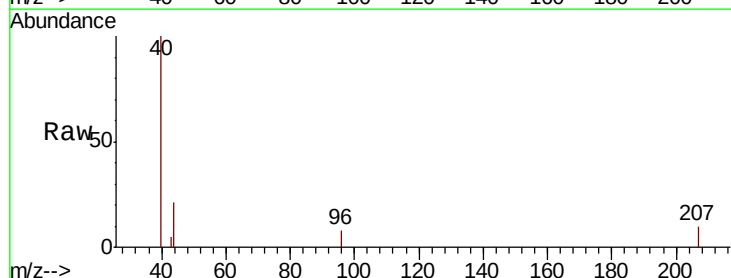
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 72-11986

Tot Ion:113 Resp: 10594  
 Ion Ratio Lower Upper  
 113 100  
 111 0.0 83.1 124.7#  
 192 22.4 18.1 27.1

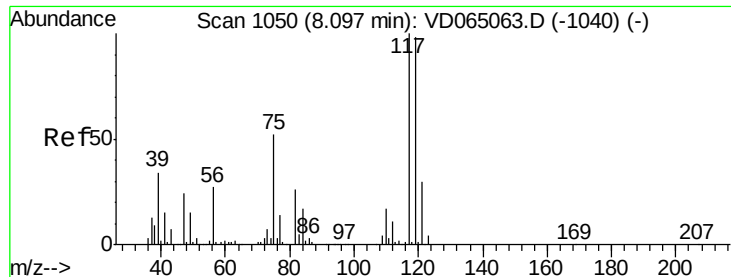


#37  
 Ethyl Acetate  
 Concen: 1.202 ug/l  
 RT: 7.23 min Scan# 902  
 Delta R.T. -0.08 min  
 Lab File: VD065107.D  
 Acq: 07 Feb 2020 13:55

Tgt Ion: 43 Resp: 121  
 Ion Ratio Lower Upper  
 43 100  
 61 64.5 11.0 16.4#  
 70 0.0 8.2 12.2#



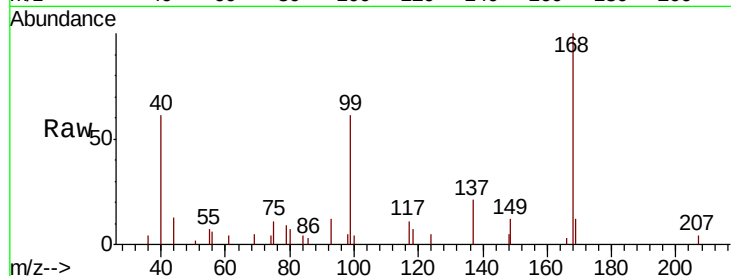




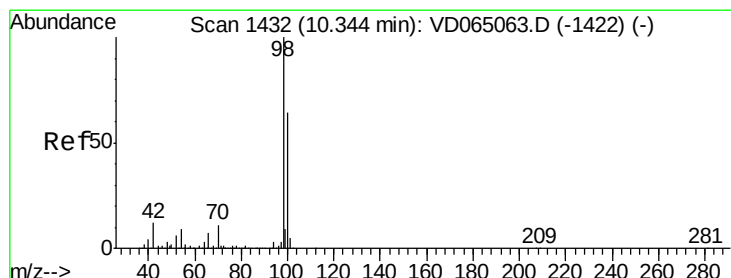
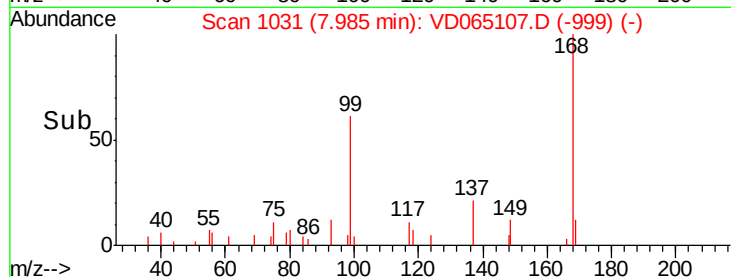
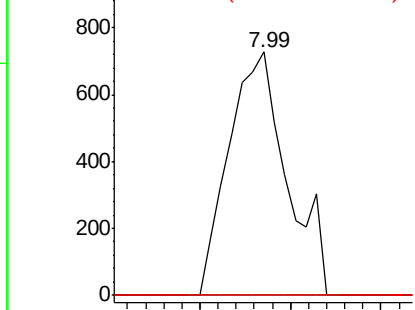
#38  
Carbon Tetrachloride  
Concen: 6.471 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11986

Tot Ion:117 Resp: 1629  
Ion Ratio Lower Upper  
117 100  
119 0.0 78.5 117.7#  
121 0.0 23.8 35.6#

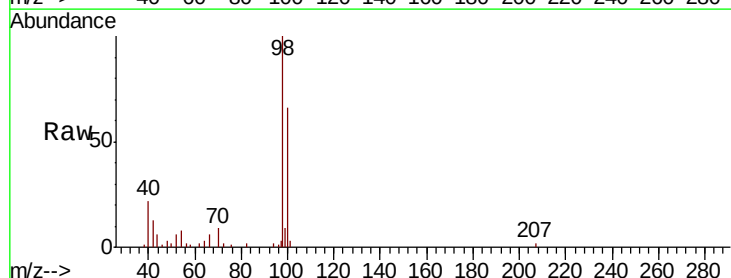


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

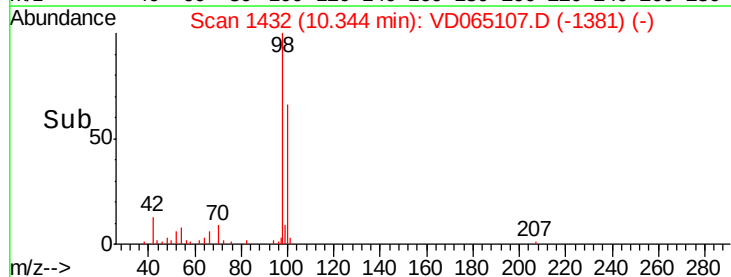
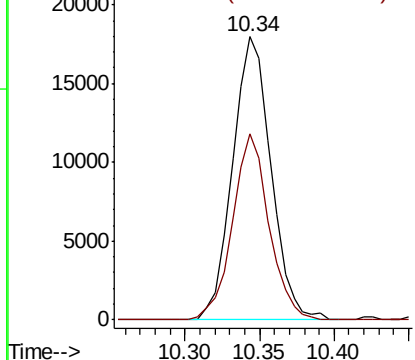


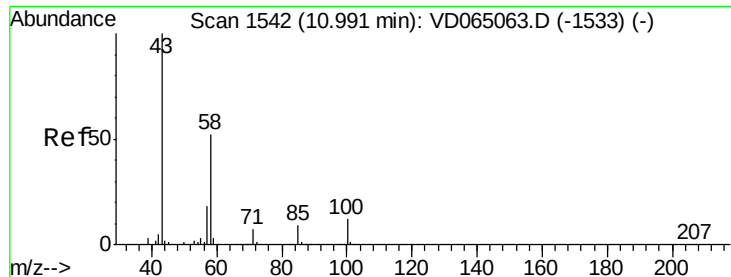
#50  
Toluene-d8  
Concen: 54.726 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Tgt Ion: 98 Resp: 32216  
Ion Ratio Lower Upper  
98 100  
100 62.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V  
Ion 100.00 (99.70 to 100.70): V

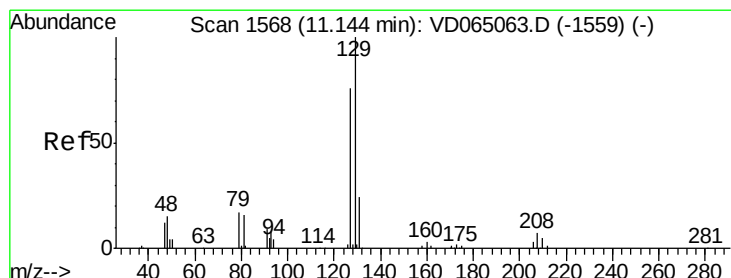
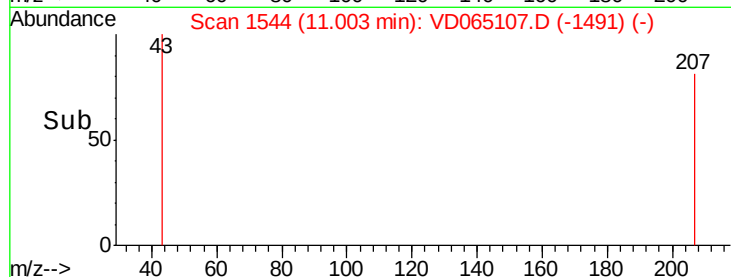
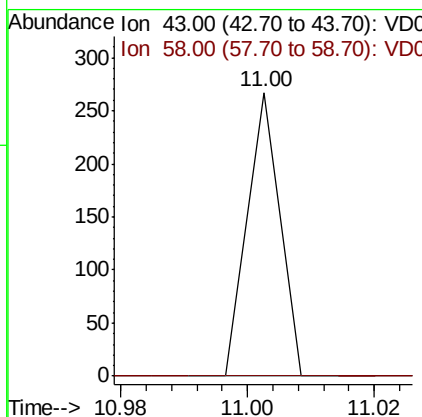
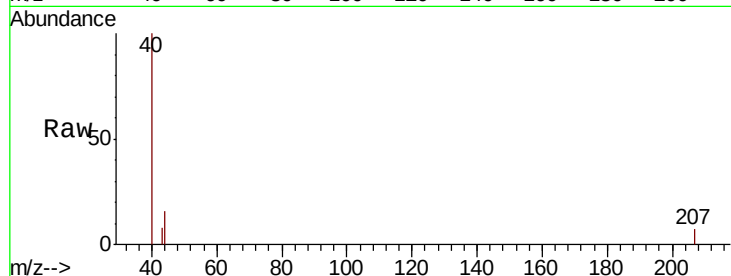




#59  
2-Hexanone  
Concen: 1.400 ug/l  
RT: 11.00 min Scan# 1544  
Delta R.T. 0.01 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

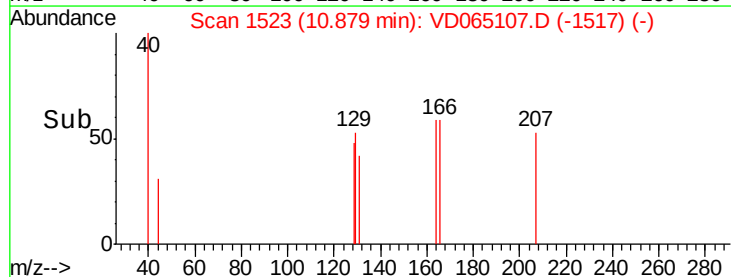
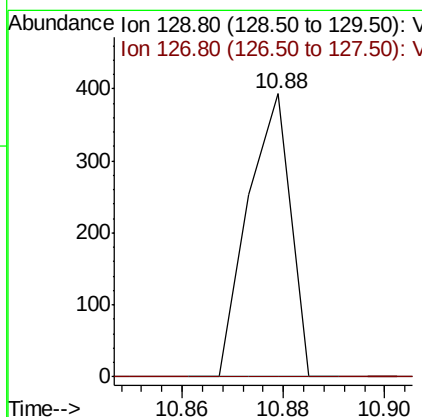
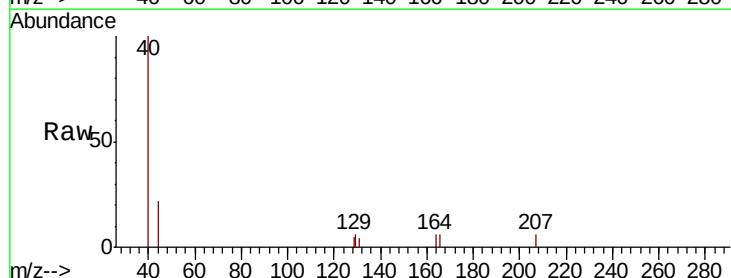
Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11986

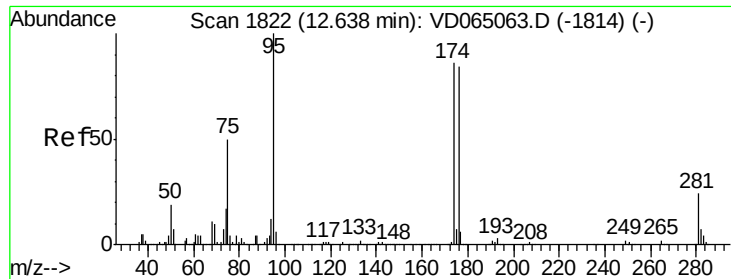
Tot Ion: 43 Resp: 94  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.6#



#60  
Dibromochloromethane  
Concen: 1.497 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. -0.26 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Tgt Ion: 129 Resp: 228  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.9#

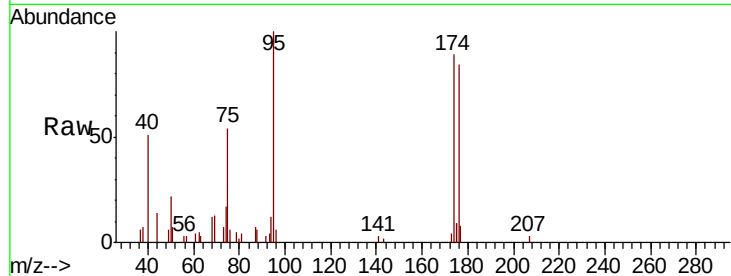




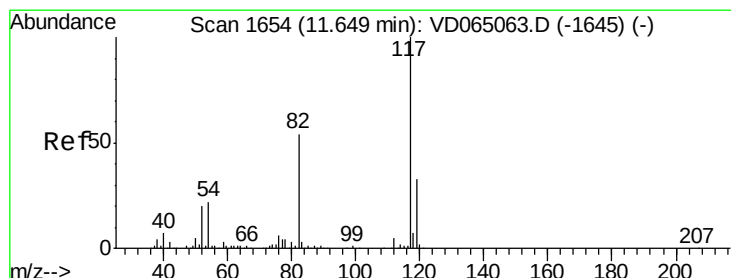
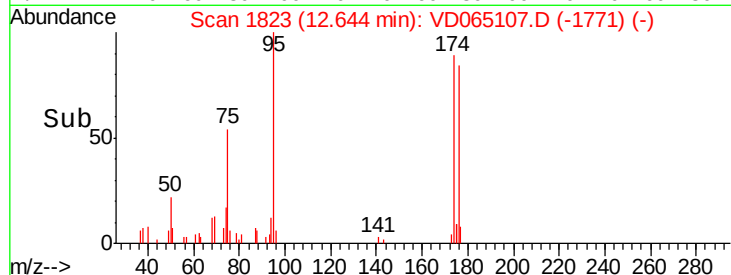
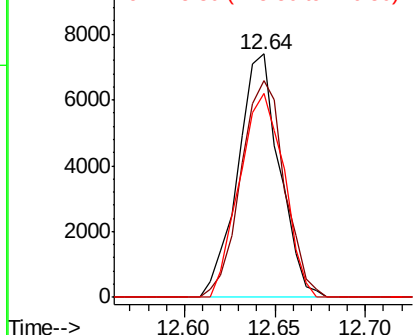
#62  
4-Bromofluorobenzene  
Concen: 63.539 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. 0.01 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11986

Tot Ion: 95 Resp: 11852  
Ion Ratio Lower Upper  
95 100  
174 93.4 0.0 180.0  
176 89.1 0.0 173.2

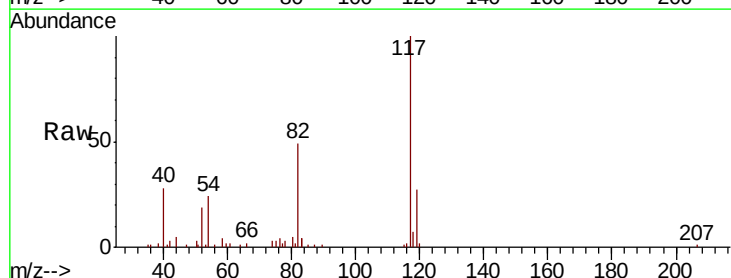


Abundance Ion 94.90 (94.60 to 95.60): VD  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

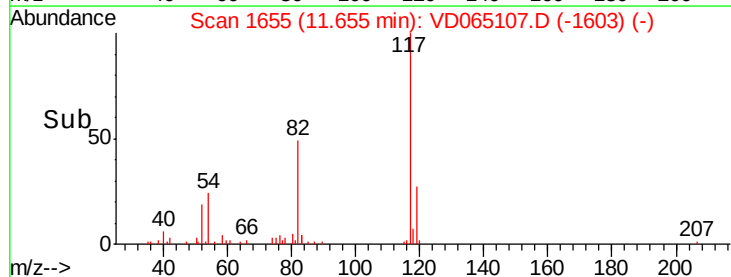
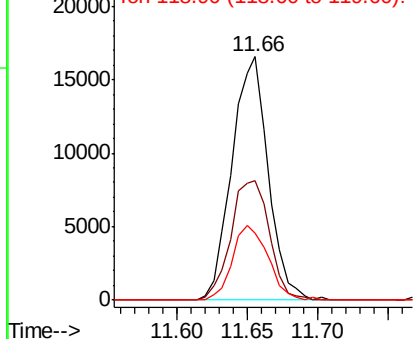


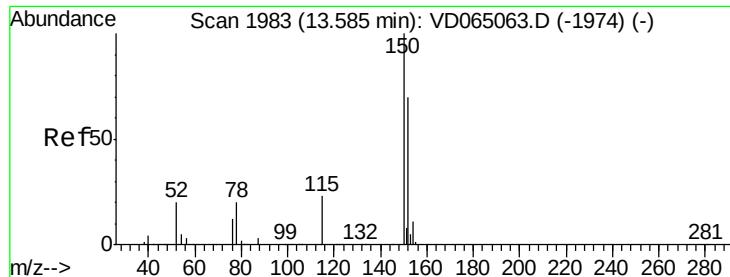
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.66 min Scan# 1655  
Delta R.T. 0.01 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Tgt Ion: 117 Resp: 29637  
Ion Ratio Lower Upper  
117 100  
82 49.0 43.1 64.7  
119 27.4 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VD  
Ion 118.90 (118.60 to 119.60): V



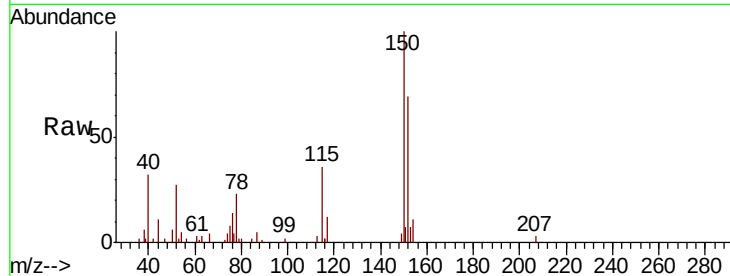


#72

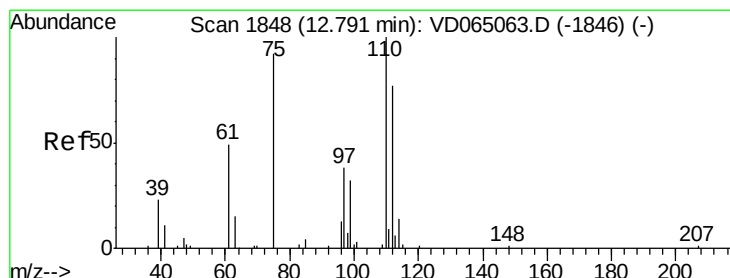
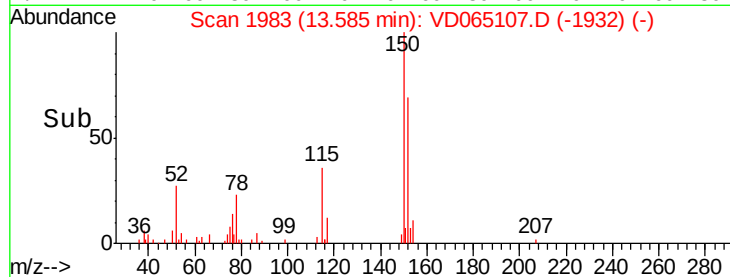
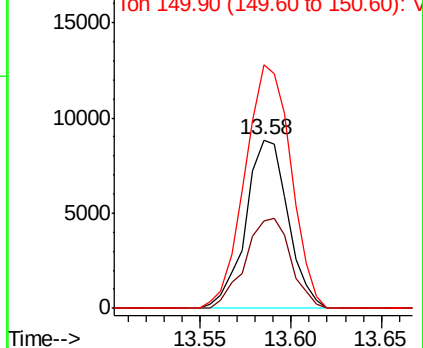
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
72-11986

Tot Ion:152 Resp: 14360  
Ion Ratio Lower Upper  
152 100  
115 57.3 27.5 82.4  
150 156.9 0.0 343.2



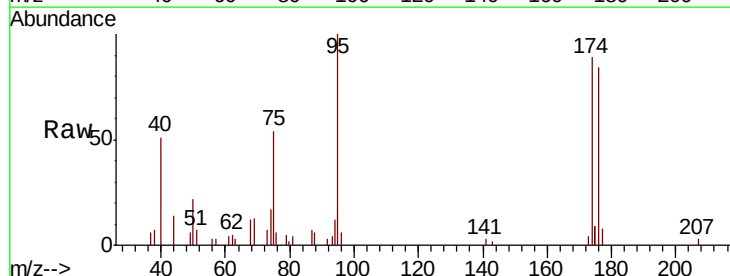
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



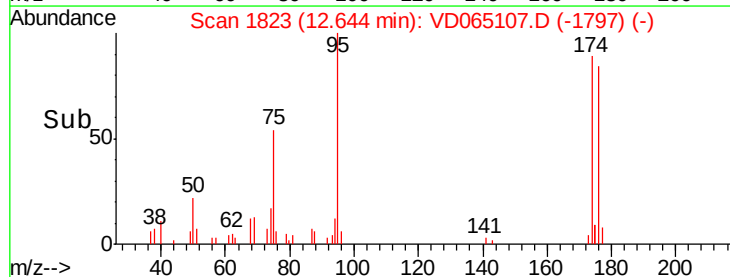
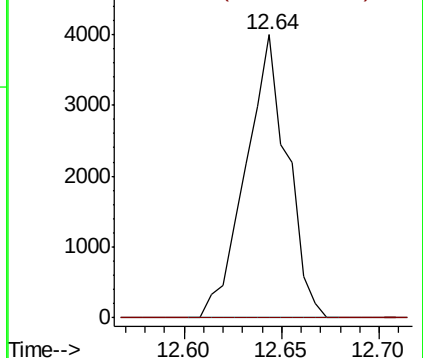
#76

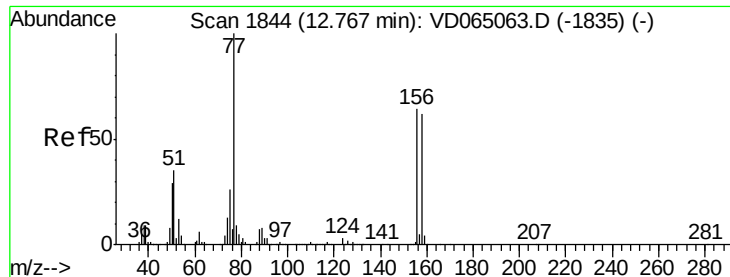
1,2,3-Trichloropropane  
Concen: 54.185 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. -0.15 min  
Lab File: VD065107.D  
Acq: 07 Feb 2020 13:55

Tgt Ion: 75 Resp: 5891  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC  
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 2.270 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.24 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

72-11986

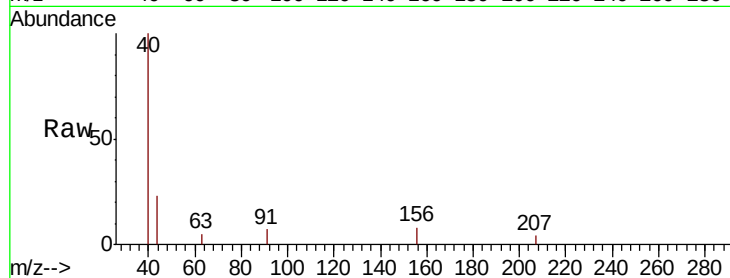
Tot Ion:156 Resp: 539

Ion Ratio Lower Upper

156 100

77 0.0 85.6 256.8#

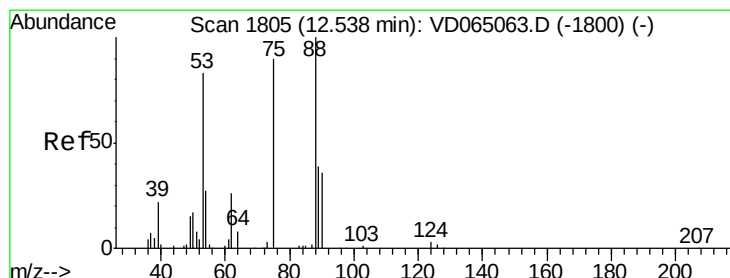
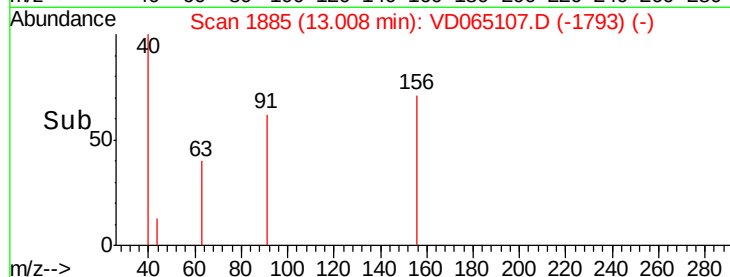
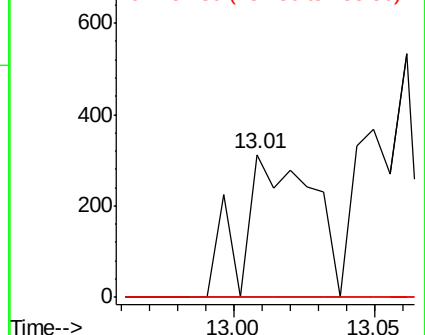
158 0.0 47.4 142.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 108.365 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

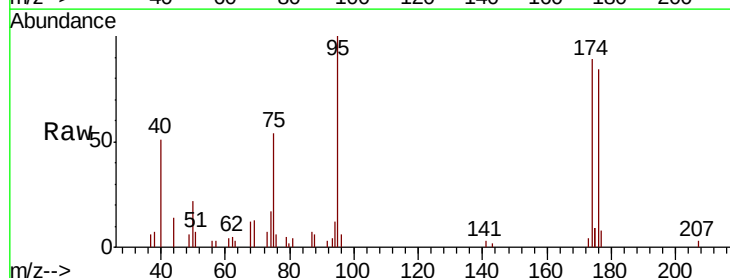
Tgt Ion: 75 Resp: 5891

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

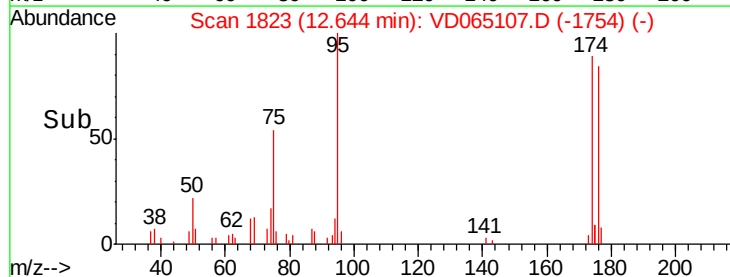
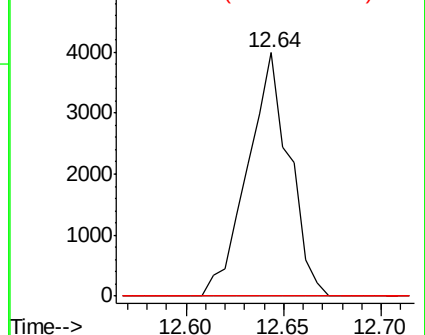
89 0.0 37.0 55.4#

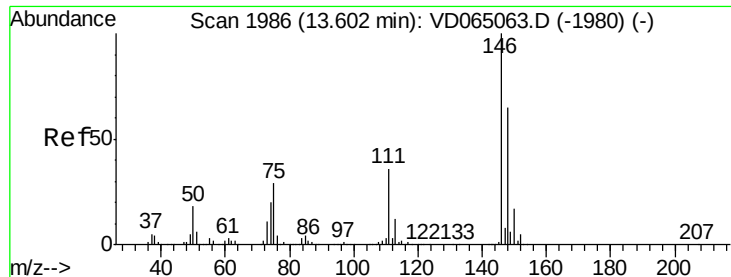


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#88

1,4-Dichlorobenzene

Concen: 1.030 ug/l

RT: 13.61 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

72-11986

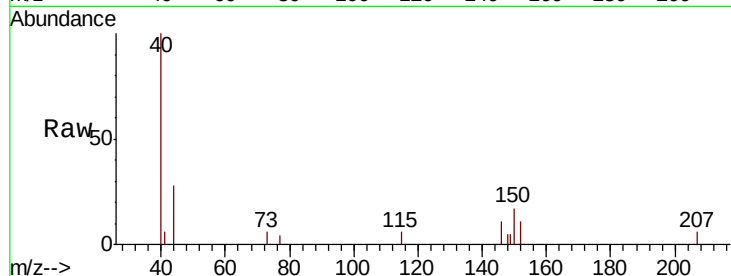
Tot Ion:146 Resp: 456

Ion Ratio Lower Upper

146 100

111 0.0 18.5 55.5#

148 69.3 32.7 98.1

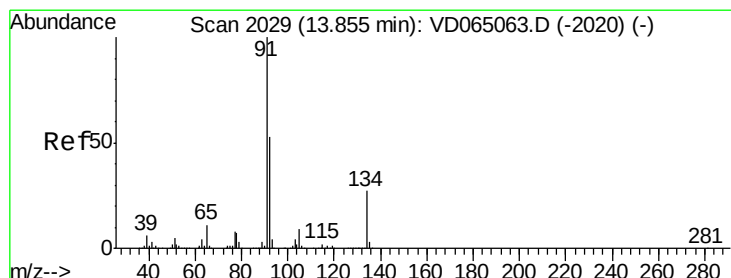
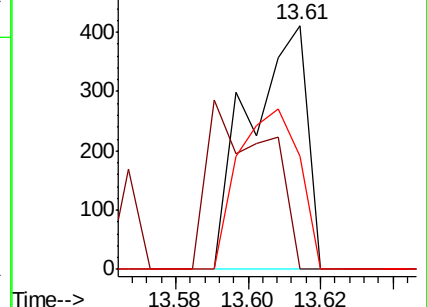
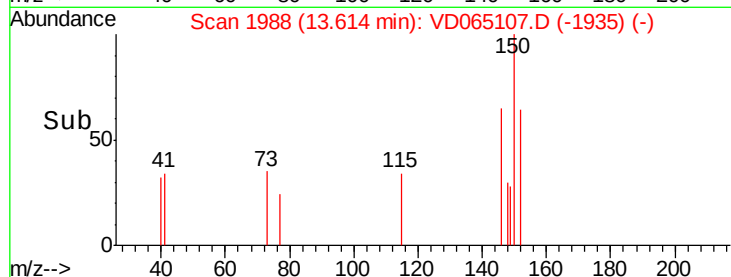


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.61



#89

n-Butylbenzene

Concen: 1.008 ug/l

RT: 13.86 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

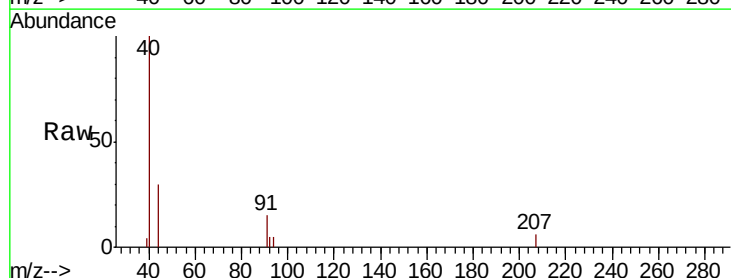
Tgt Ion: 91 Resp: 821

Ion Ratio Lower Upper

91 100

92 31.9 26.7 80.1

134 6.6 13.4 40.2#

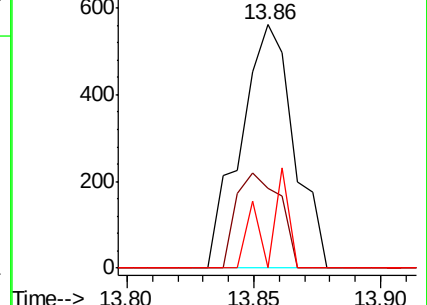
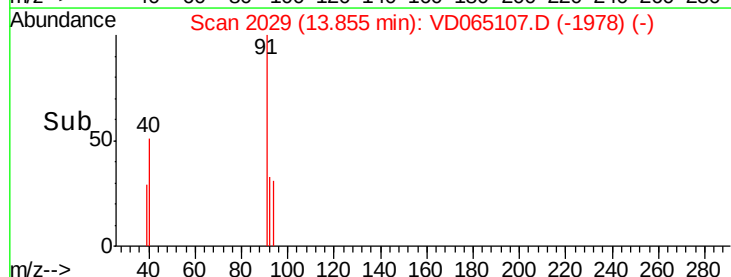


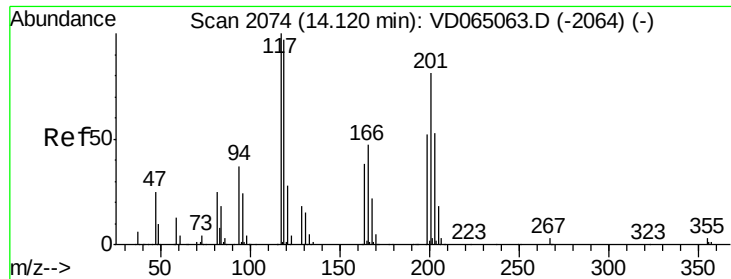
Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): V

13.86





#90

Hexachloroethane

Concen: 1.005 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

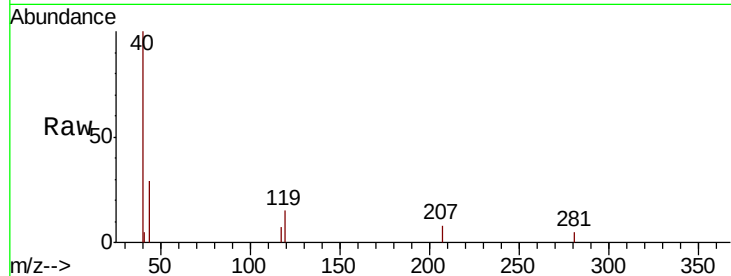
72-11986

Tot Ion:117 Resp: 168

Ion Ratio Lower Upper

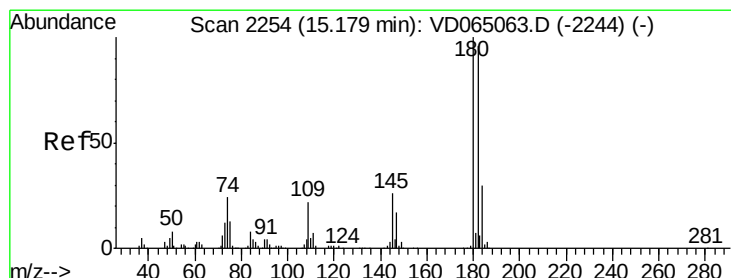
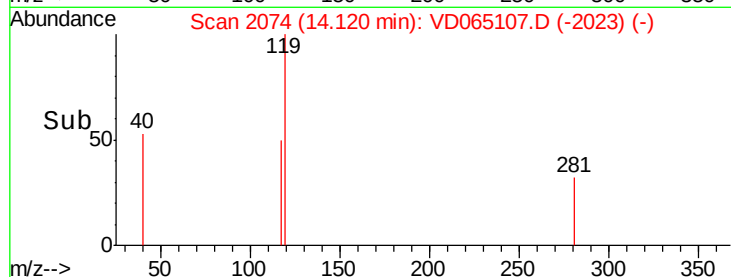
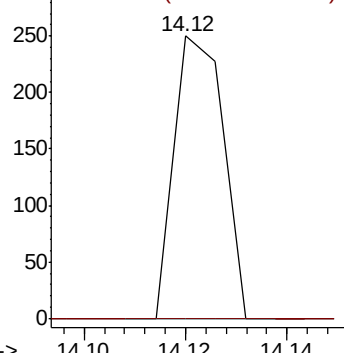
117 100

201 0.0 42.5 127.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 1.554 ug/l

RT: 15.17 min Scan# 2253

Delta R.T. -0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

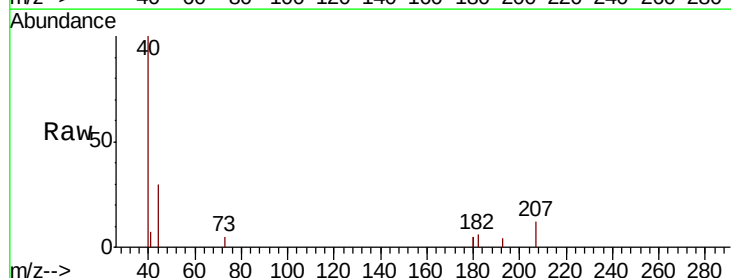
Tgt Ion:180 Resp: 423

Ion Ratio Lower Upper

180 100

182 16.1 47.4 142.3#

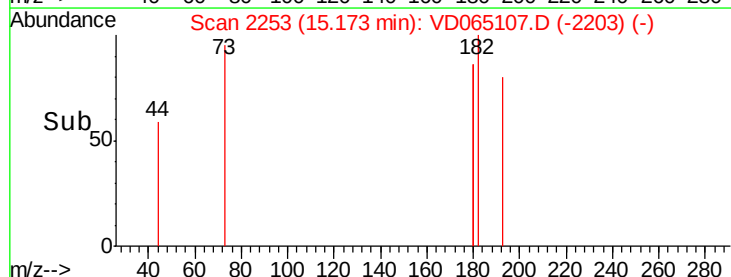
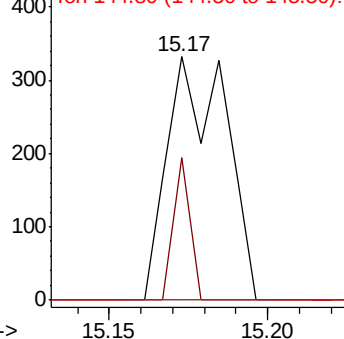
145 0.0 14.1 42.4#

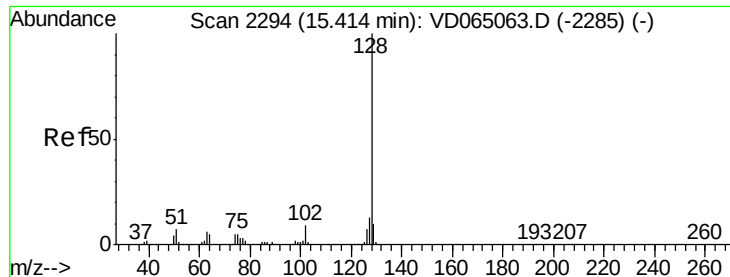


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.095 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA\_D

ClientSampleId :

72-11986

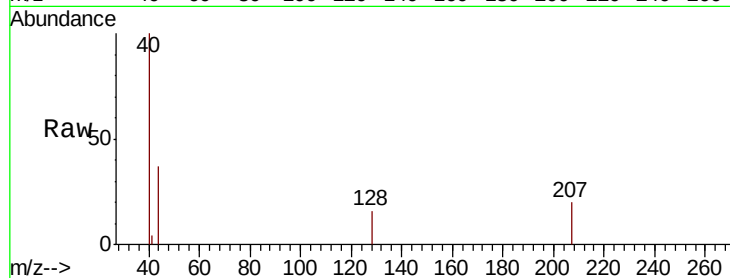
Tot Ion:128 Resp: 948

Ion Ratio Lower Upper

128 100

127 13.6 10.6 15.8

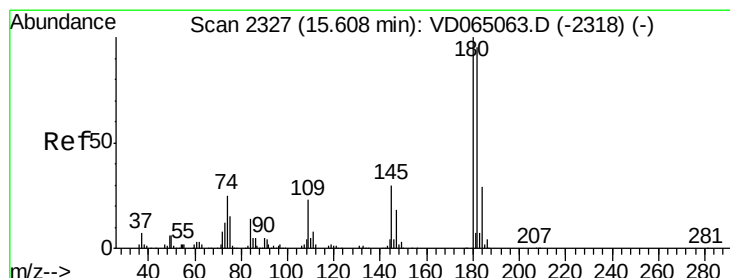
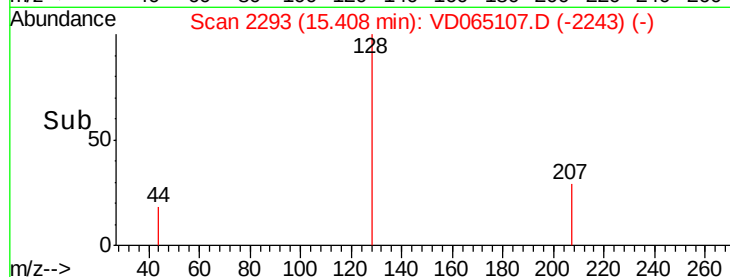
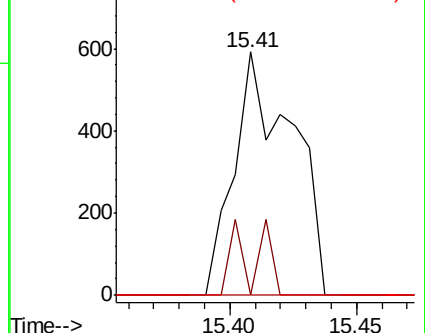
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.340 ug/l

RT: 15.61 min Scan# 2328

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

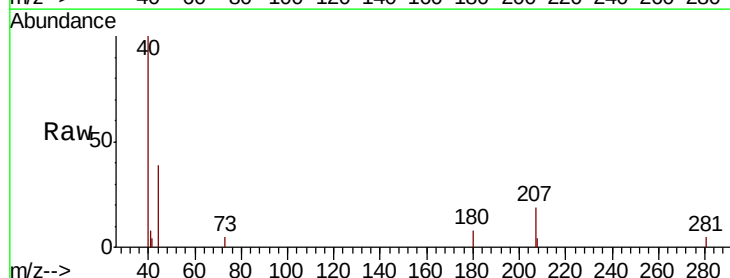
Tgt Ion:180 Resp: 312

Ion Ratio Lower Upper

180 100

182 20.5 47.1 141.4#

145 0.0 14.9 44.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

