

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010720\  
 Data File : VD064793.D  
 Acq On : 07 Jan 2020 15:19  
 Operator : VA/SY  
 Sample : L1049-01  
 Misc : 5.72G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jan 08 07:37:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 485186   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 746550   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 648230   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 268350   | 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   | 205240   | 47.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.94%  |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 217710   | 47.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.06%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 895301   | 51.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.08% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 260386   | 46.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.88%  |          |

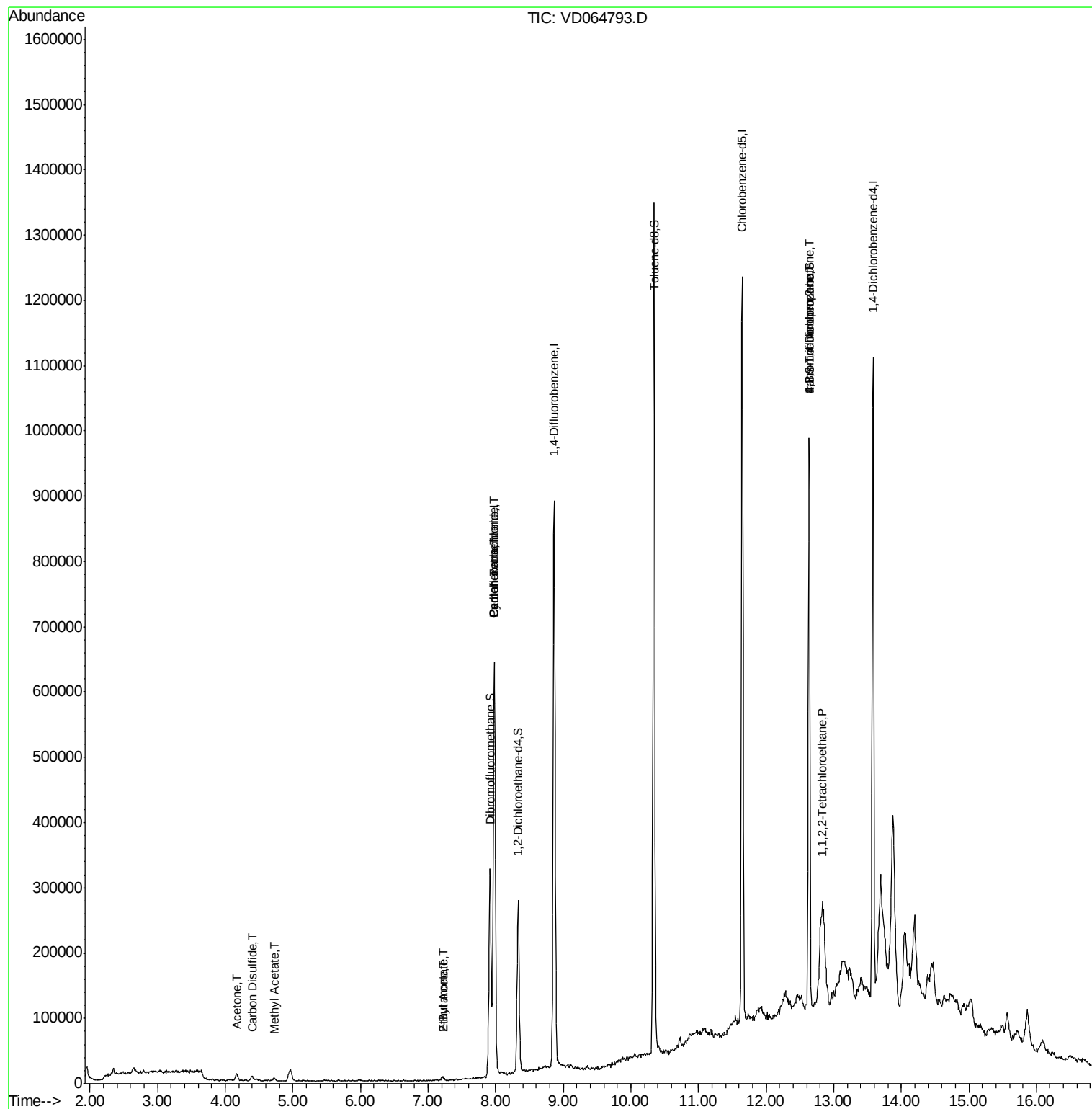
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.17  | 43   | 18983    | 22.834    | ug/l   | 96     |
| 17) Carbon Disulfide           | 4.40  | 76   | 13859    | 1.004     | ug/l # | 90     |
| 18) Methyl Acetate             | 4.73  | 43   | 5905     | 2.452     | ug/l   | 100    |
| 20) Methylene Chloride         | 4.96  | 84   | 13788    | Below Cal |        | 93     |
| 25) 2-Butanone                 | 7.22  | 43   | 4072     | 3.463     | ug/l # | 82     |
| 31) Cyclohexane                | 7.98  | 56   | 11787    | 1.478     | ug/l # | 20     |
| 37) Ethyl Acetate              | 7.22  | 43   | 4072     | 1.443     | ug/l # | 86     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 45793    | 5.977     | ug/l # | 16     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.83 | 83   | 37904    | 12.582    | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 138478   | 65.349    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 138478   | 136.675   | ug/l # | 11     |

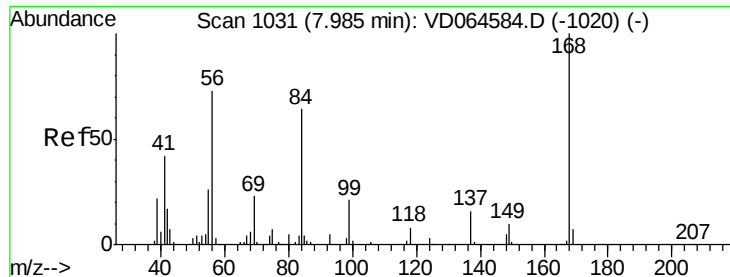
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Jan 08 07:37:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 2019  
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: VD064793.D

Acq: 07 Jan 2020 15:19

Instrument :

MSVOA\_D

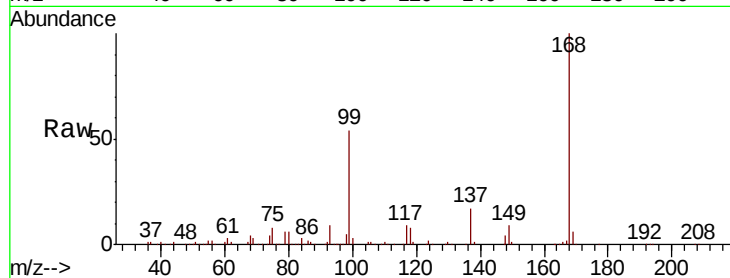
ClientSampleId :

Tot Ion:168 Resp: 485186

Ion Ratio Lower Upper

168 100

99 54.3 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

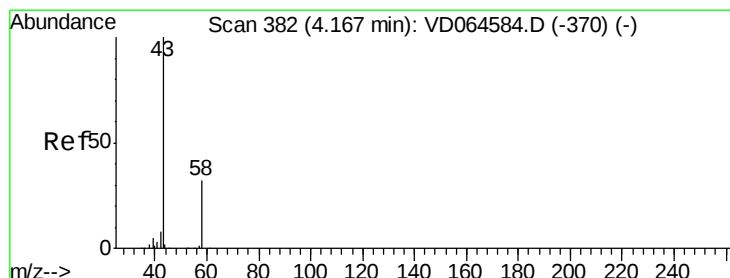
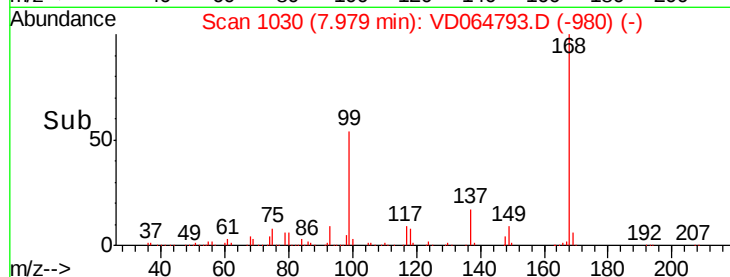
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 22.834 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064793.D

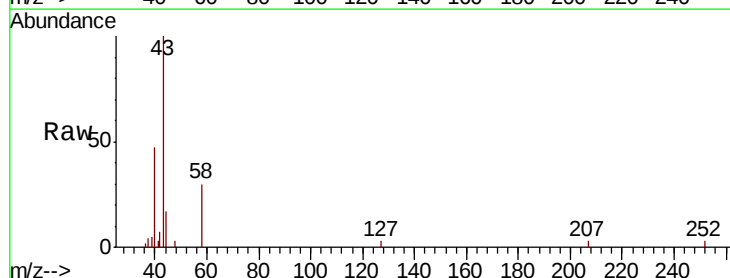
Acq: 07 Jan 2020 15:19

Tgt Ion: 43 Resp: 18983

Ion Ratio Lower Upper

43 100

58 29.8 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

8000

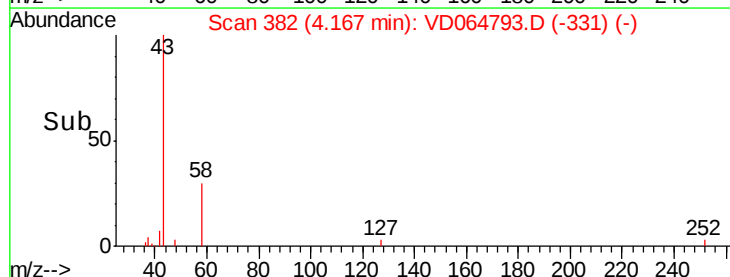
6000

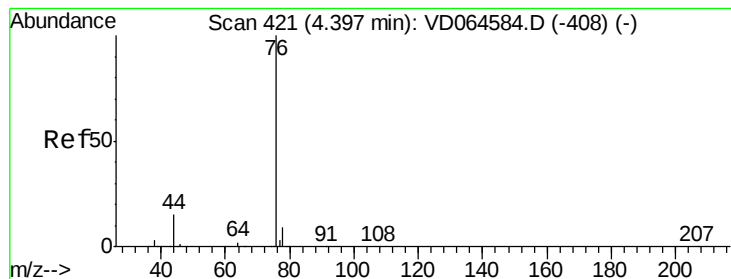
4000

2000

0

Time-->





#17

Carbon Disulfide

Concen: 1.004 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD064793.D

Acq: 07 Jan 2020 15:19

Instrument :

MSVOA\_D

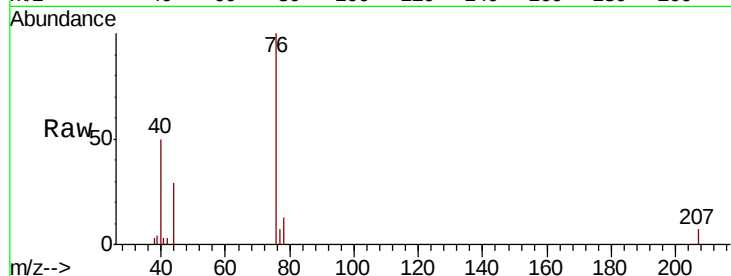
ClientSampleId :

Tot Ion: 76 Resp: 13859

Ion Ratio Lower Upper

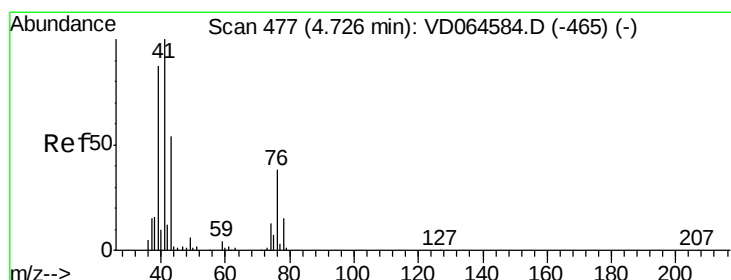
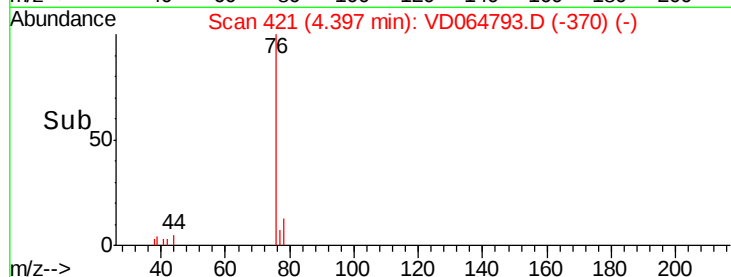
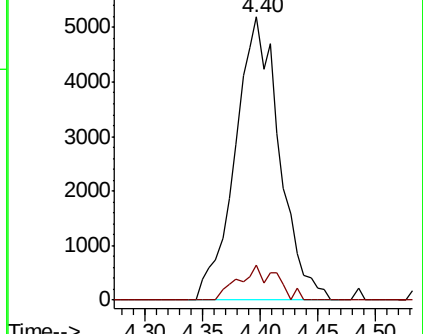
76 100

78 12.6 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 2.452 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD064793.D

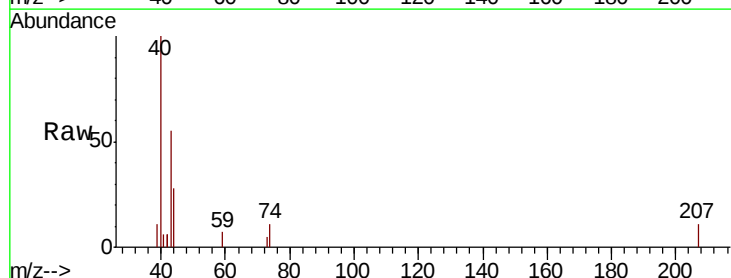
Acq: 07 Jan 2020 15:19

Tgt Ion: 43 Resp: 5905

Ion Ratio Lower Upper

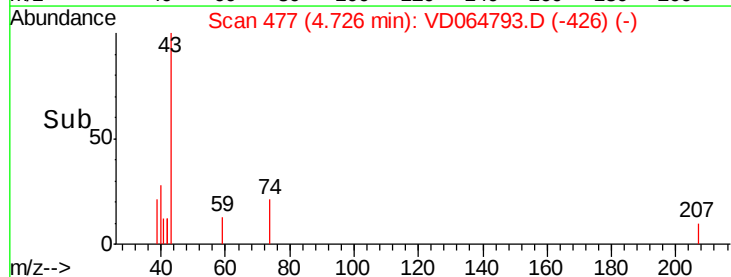
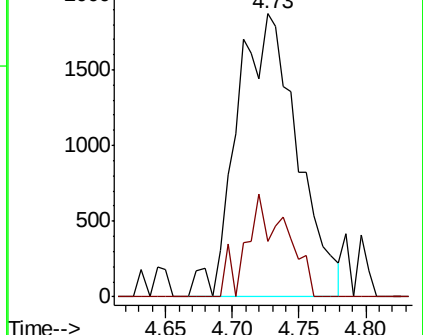
43 100

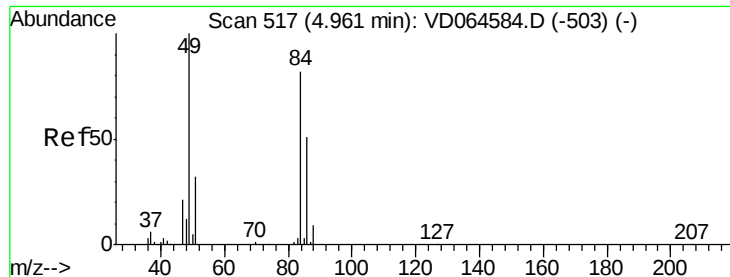
74 24.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

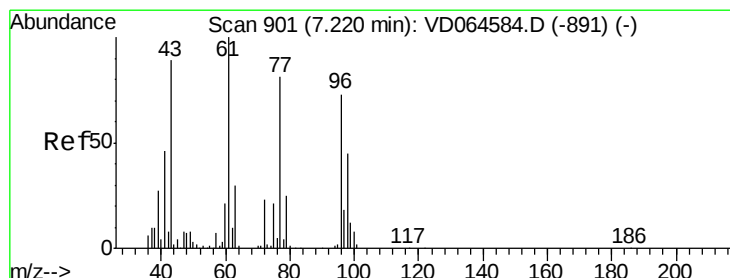
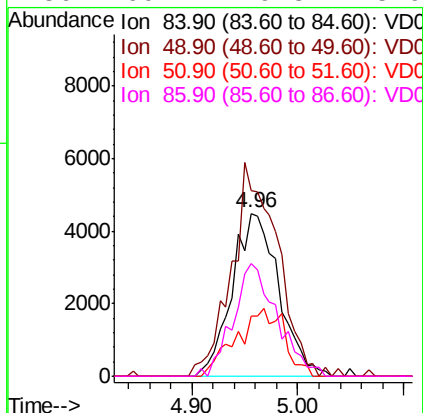
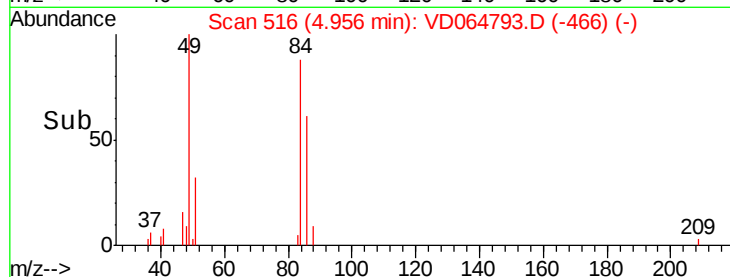
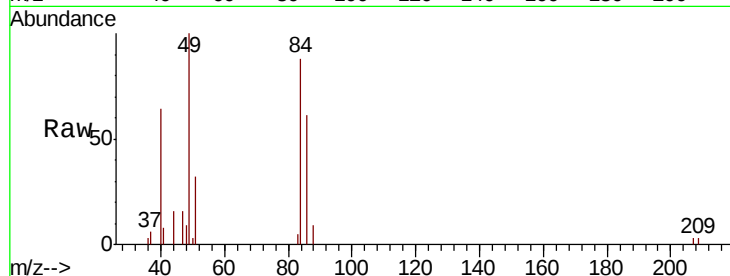




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

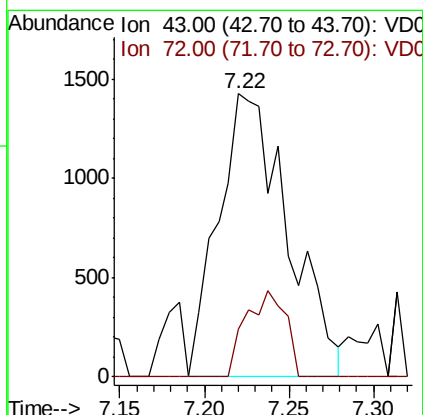
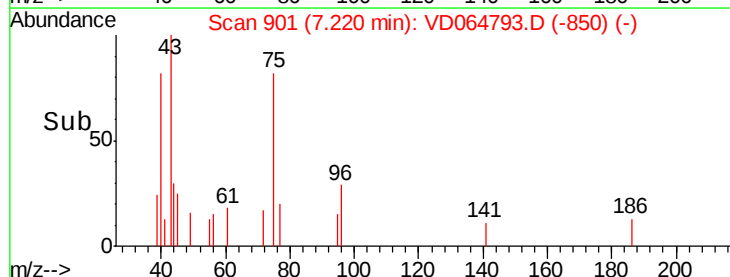
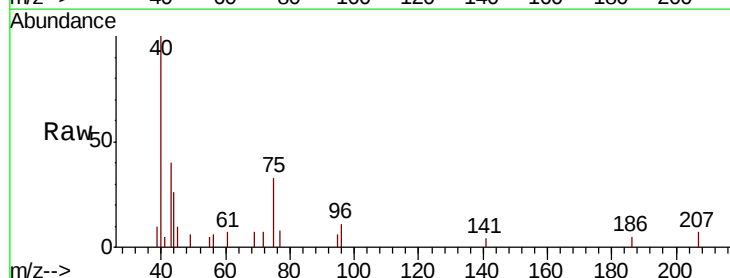
Instrument :  
MSVOA\_D  
ClientSampleId :

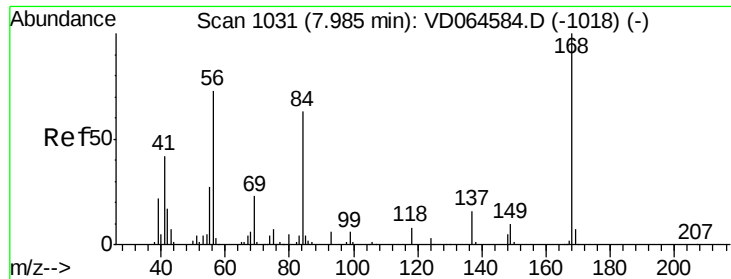
Tot Ion: 84 Resp: 13788  
Ion Ratio Lower Upper  
84 100  
49 113.7 97.2 145.8  
51 36.5 31.4 47.0  
86 69.2 49.3 73.9



#25  
2-Butanone  
Concen: 3.463 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

Tgt Ion: 43 Resp: 4072  
Ion Ratio Lower Upper  
43 100  
72 17.0 20.7 31.1#

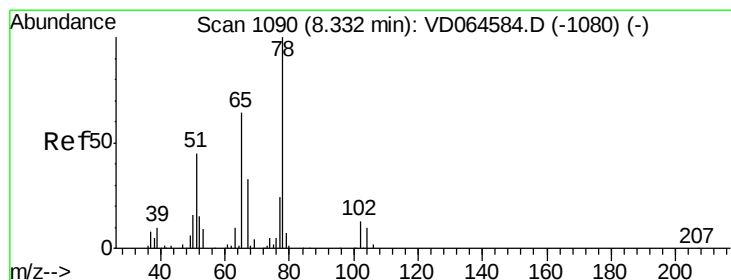
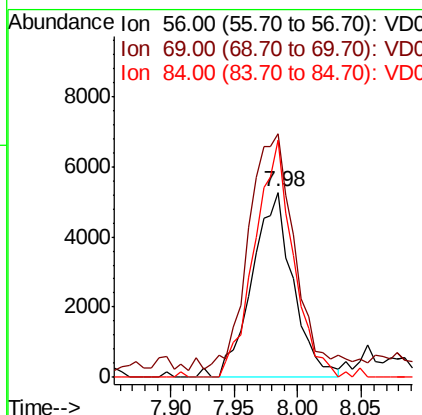
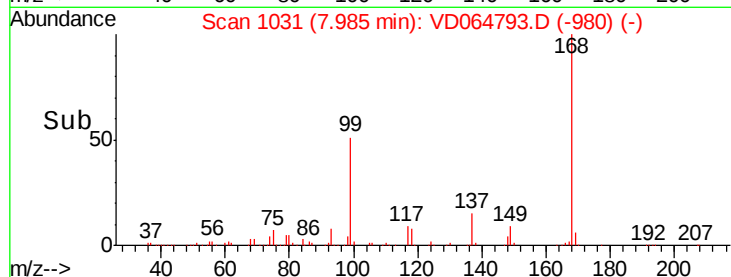
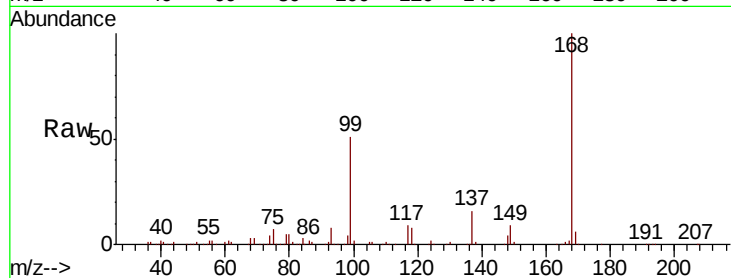




#31  
Cyclohexane  
Concen: 1.478 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

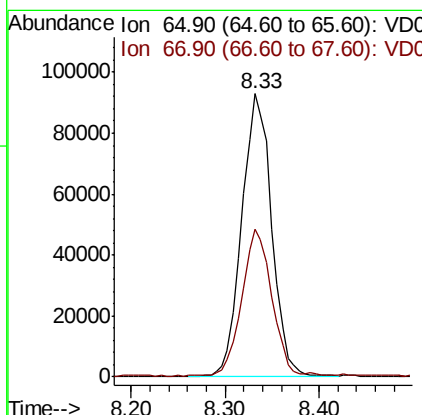
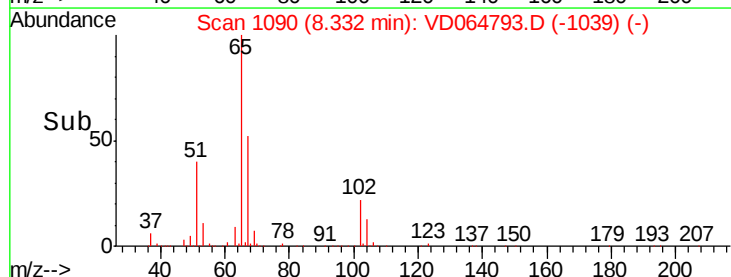
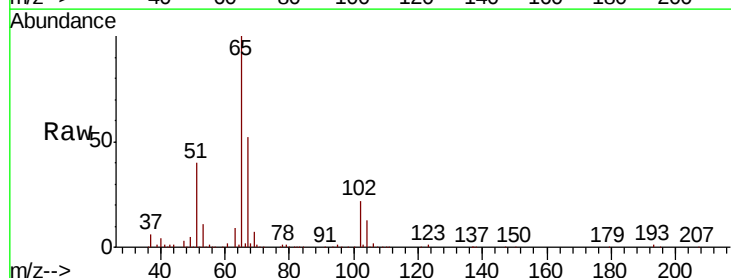
Instrument :  
MSVOA\_D  
ClientSampled :

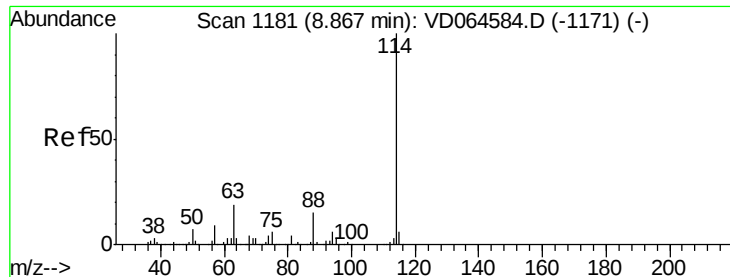
Tot Ion: 56 Resp: 11787  
Ion Ratio Lower Upper  
56 100  
69 128.2 24.7 37.1#  
84 128.3 69.4 104.2#



#33  
1,2-Dichloroethane-d4  
Concen: 47.972 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

Tgt Ion: 65 Resp: 205240  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 106.2

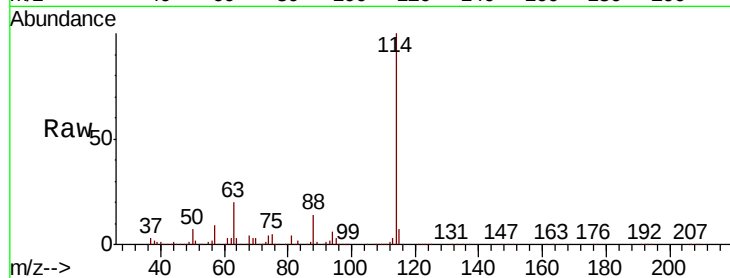




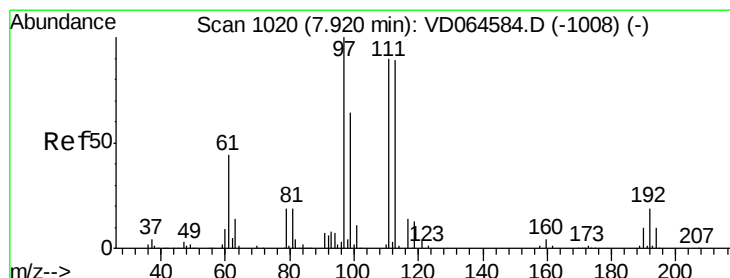
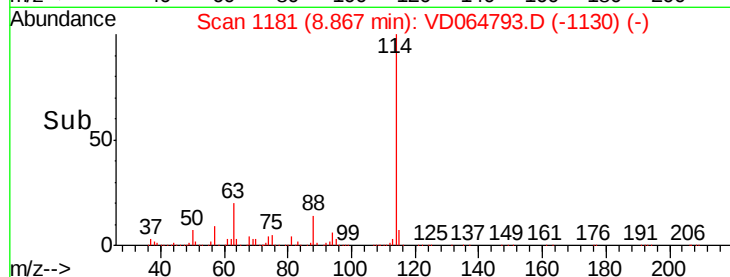
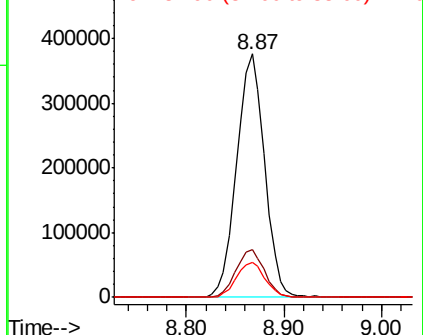
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD064793.D  
 Acq: 07 Jan 2020 15:19

Instrument :  
 MSVOA\_D  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 38.0  |
| 88      | 14.3  | 0.0   | 29.2  |

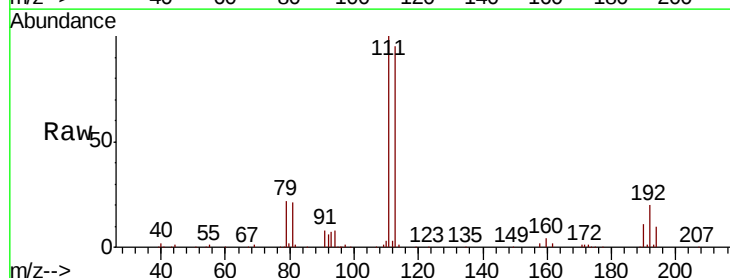


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

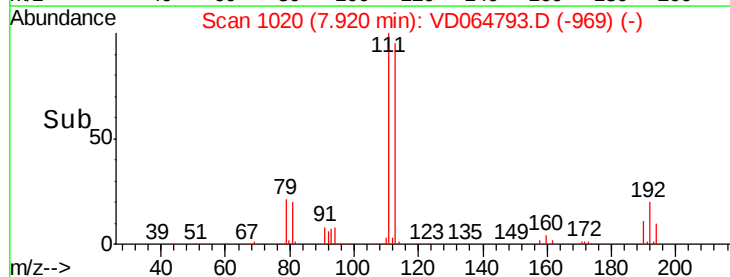
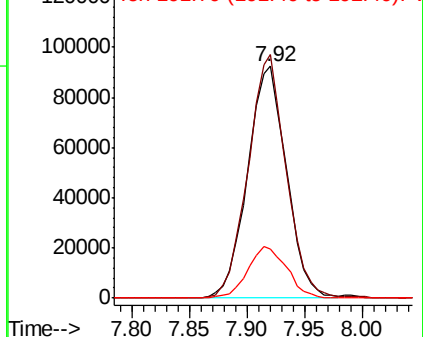


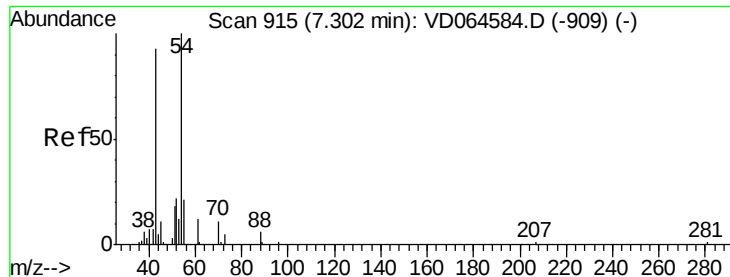
#35  
 Dibromofluoromethane  
 Concen: 47.533 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064793.D  
 Acq: 07 Jan 2020 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.5 | 80.6  | 121.0 |
| 192     | 22.1  | 17.9  | 26.9  |



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

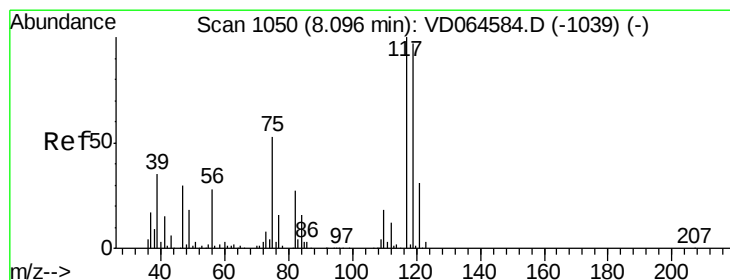
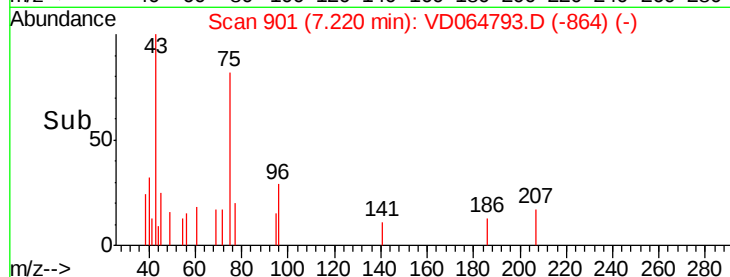
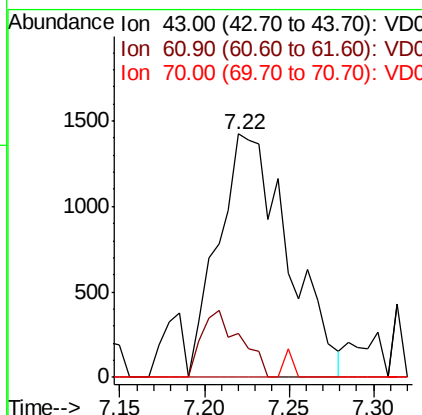
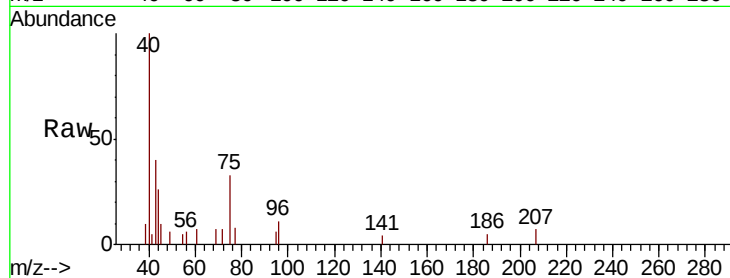




#37  
Ethyl Acetate  
Concen: 1.443 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. -0.08 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

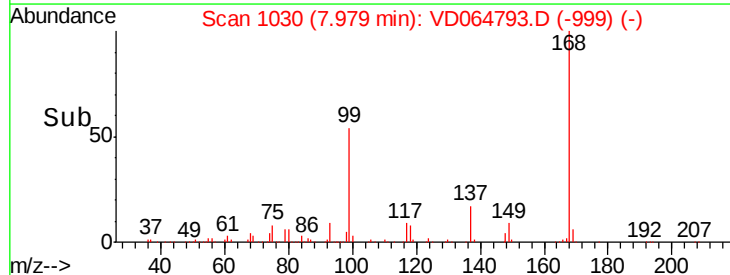
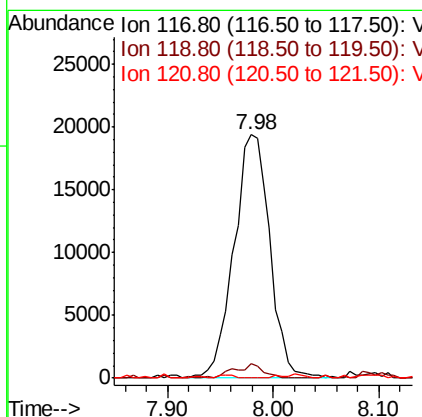
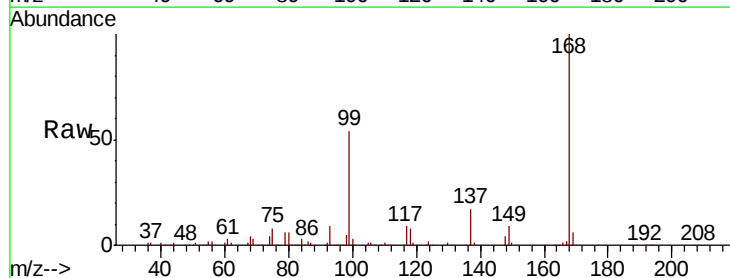
Instrument :  
MSVOA\_D  
ClientSampleId :

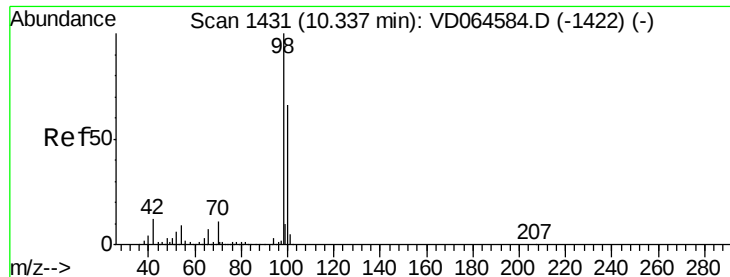
Tot Ion: 43 Resp: 4072  
Ion Ratio Lower Upper  
43 100  
61 15.2 10.3 15.5  
70 0.0 7.6 11.4#



#38  
Carbon Tetrachloride  
Concen: 5.977 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.12 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

Tgt Ion: 117 Resp: 45793  
Ion Ratio Lower Upper  
117 100  
119 6.2 77.3 115.9#  
121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 51.038 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064793.D

Acq: 07 Jan 2020 15:19

Instrument :

MSVOA\_D

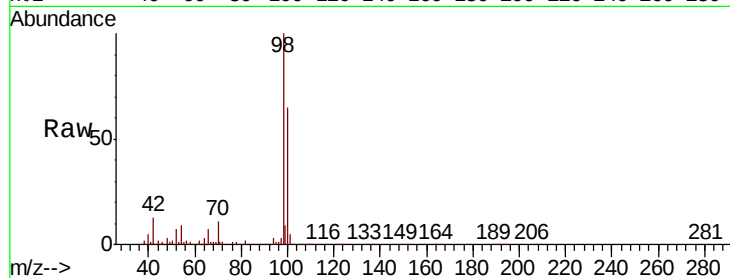
ClientSampled :

Tot Ion: 98 Resp: 895301

Ion Ratio Lower Upper

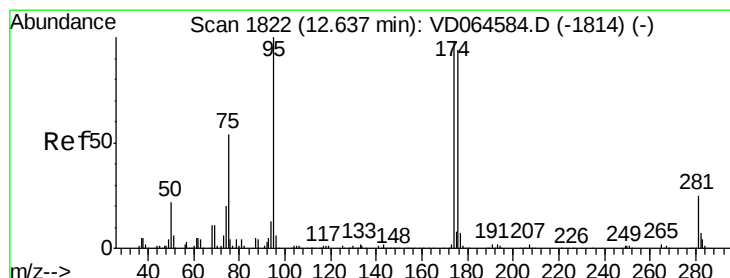
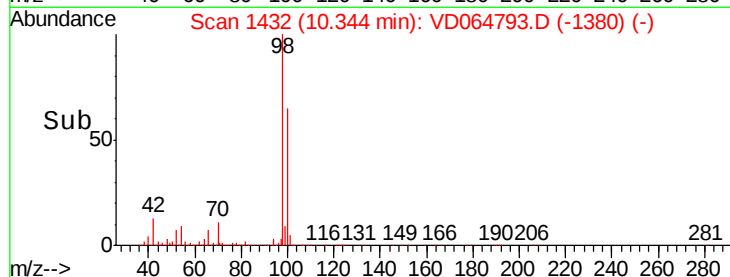
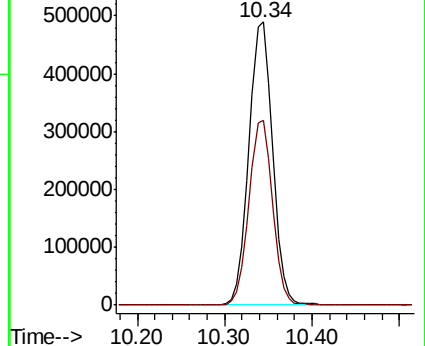
98 100

100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 46.943 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064793.D

Acq: 07 Jan 2020 15:19

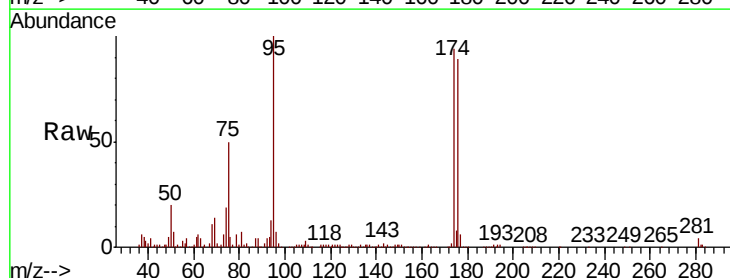
Tgt Ion: 95 Resp: 260386

Ion Ratio Lower Upper

95 100

174 94.4 0.0 193.2

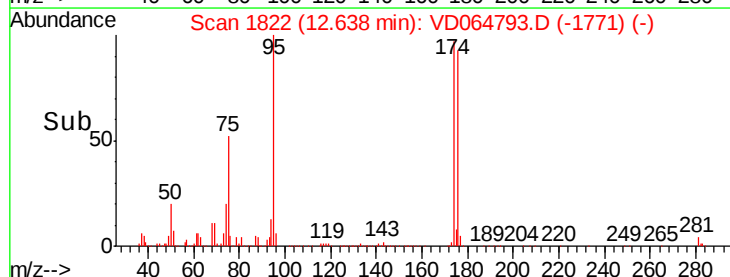
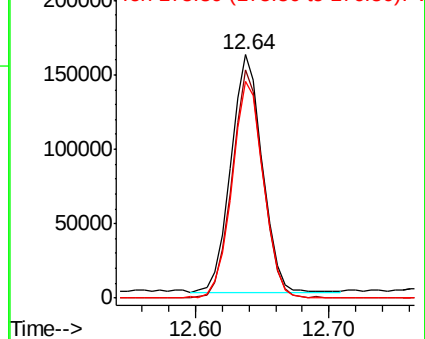
176 91.1 0.0 184.2

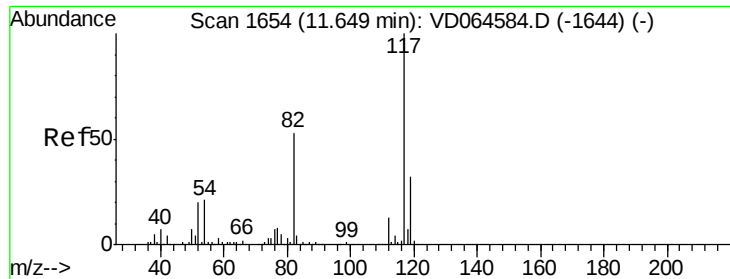


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

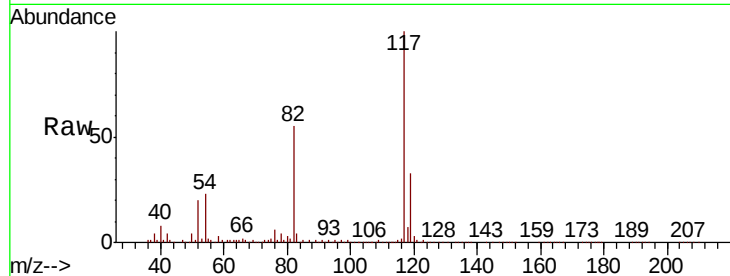




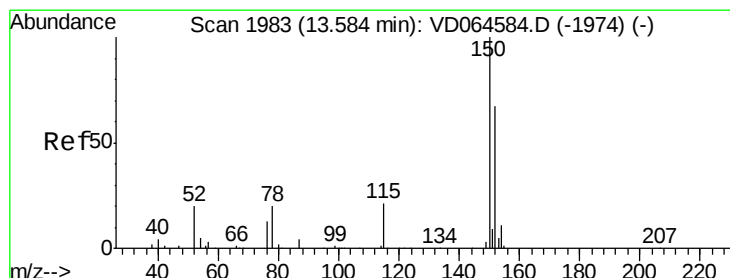
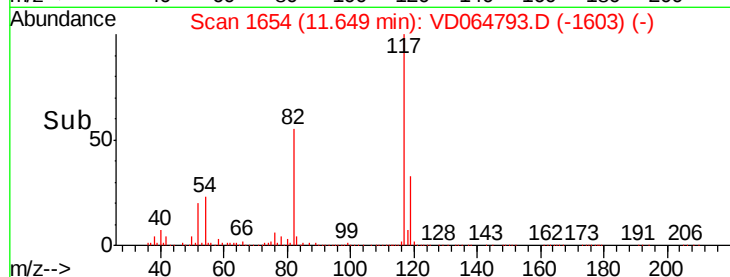
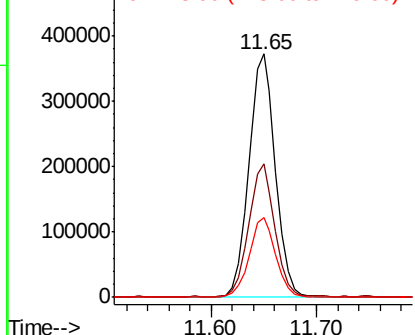
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 648230  
Ion Ratio Lower Upper  
117 100  
82 54.7 42.2 63.4  
119 32.6 26.0 39.0

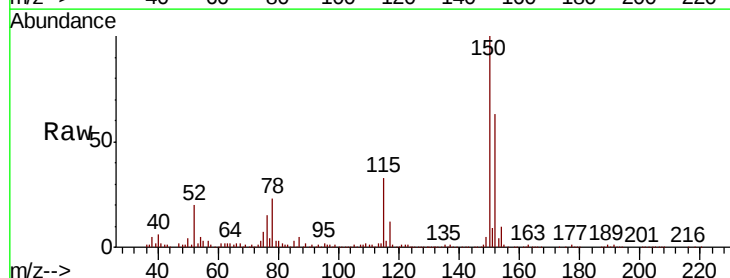


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

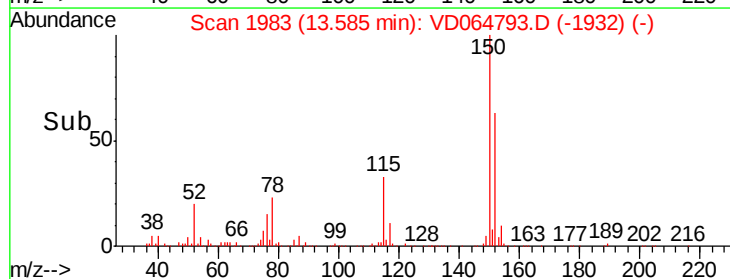
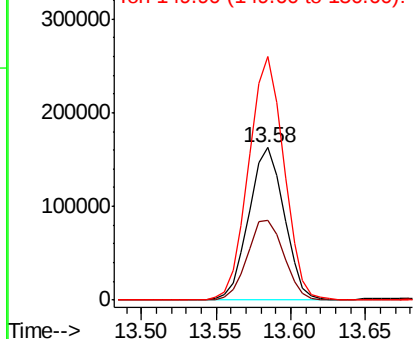


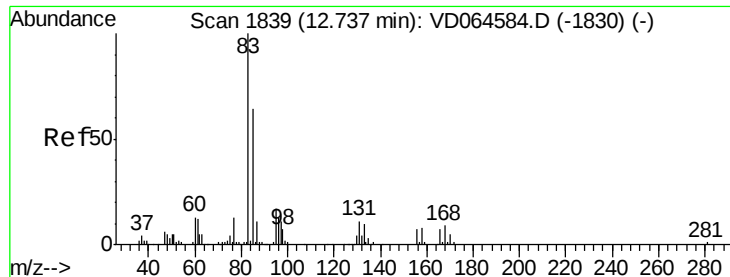
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD064793.D  
Acq: 07 Jan 2020 15:19

Tgt Ion:152 Resp: 268350  
Ion Ratio Lower Upper  
152 100  
115 53.6 27.8 83.4  
150 156.9 0.0 351.4



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





#75

1,1,2,2-Tetrachloroethane

Concen: 12.582 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.09 min

Lab File: VD064793.D

Acq: 07 Jan 2020 15:19

Instrument :

MSVOA\_D

ClientSampleId :

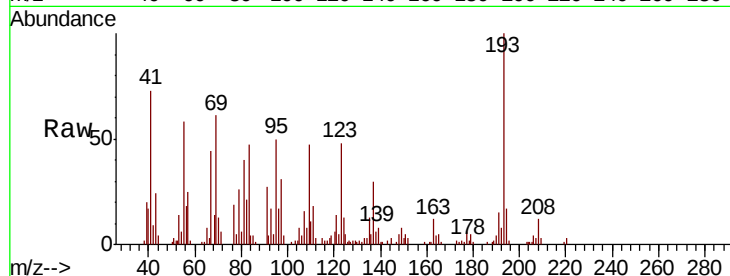
Tot Ion: 83 Resp: 37904

Ion Ratio Lower Upper

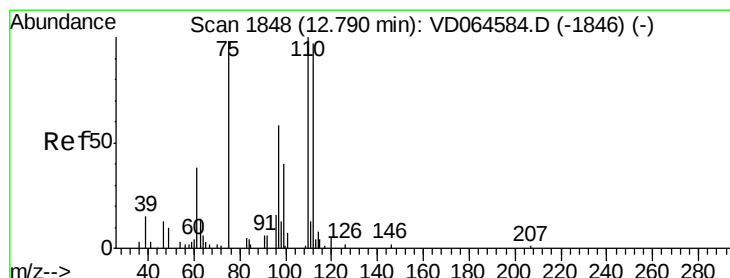
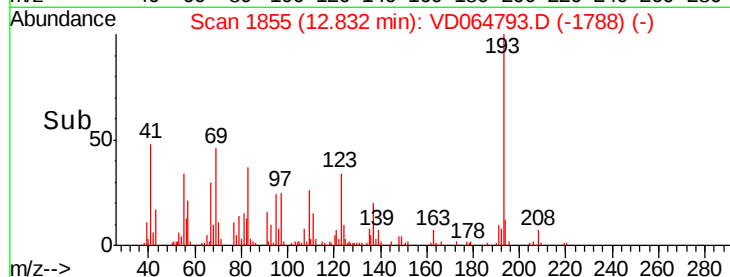
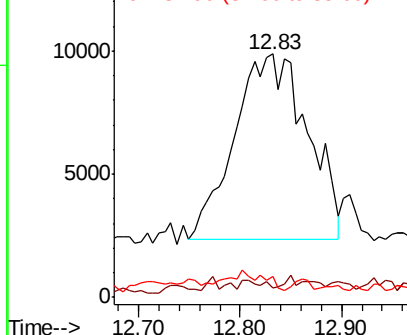
83 100

131 0.0 5.8 17.4#

85 0.0 32.3 96.9#



Abundance Ion 82.90 (82.60 to 83.60): VDC  
Ion 130.80 (130.50 to 131.50): VDC  
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 65.349 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064793.D

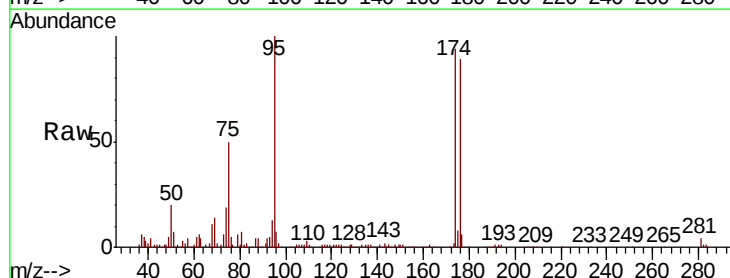
Acq: 07 Jan 2020 15:19

Tgt Ion: 75 Resp: 138478

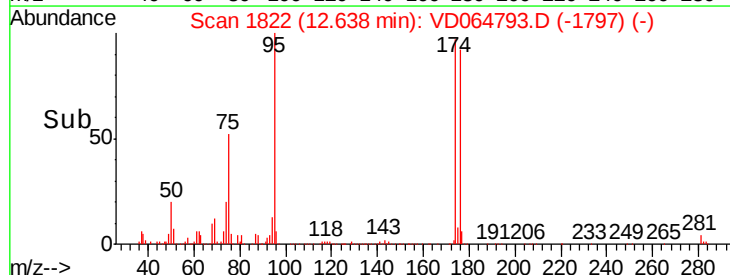
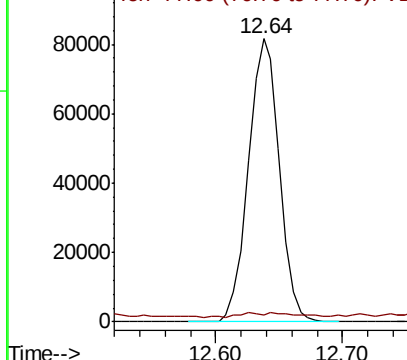
Ion Ratio Lower Upper

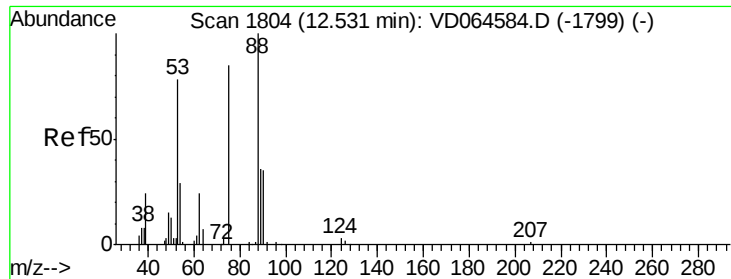
75 100

77 1.1 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: 136.675 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064793.D

Acq: 07 Jan 2020 15:19

Instrument :

MSVOA\_D

ClientSampleId :

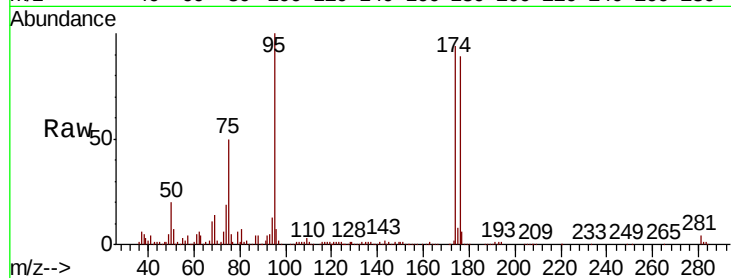
Tot Ion: 75 Resp: 138478

Ion Ratio Lower Upper

75 100

53 0.7 78.8 118.2#

89 0.3 38.3 57.5#



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

