

Data File : VD064227.D  
Acq On : 15 Nov 2019 15:07  
Operator : VA/SY  
Sample : K5864-03  
Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-02-7.5-8.0

Quant Time: Nov 16 04:51:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 12 02:43:24 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 517941   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 781876   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 738048   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 372504   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 286273   | 67.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 134.40% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 251309   | 55.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.98% |      |
| 50) Toluene-d8            | 10.34  | 98  | 929934   | 54.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.84% |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 330274   | 56.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.66% |      |

#### Target Compounds

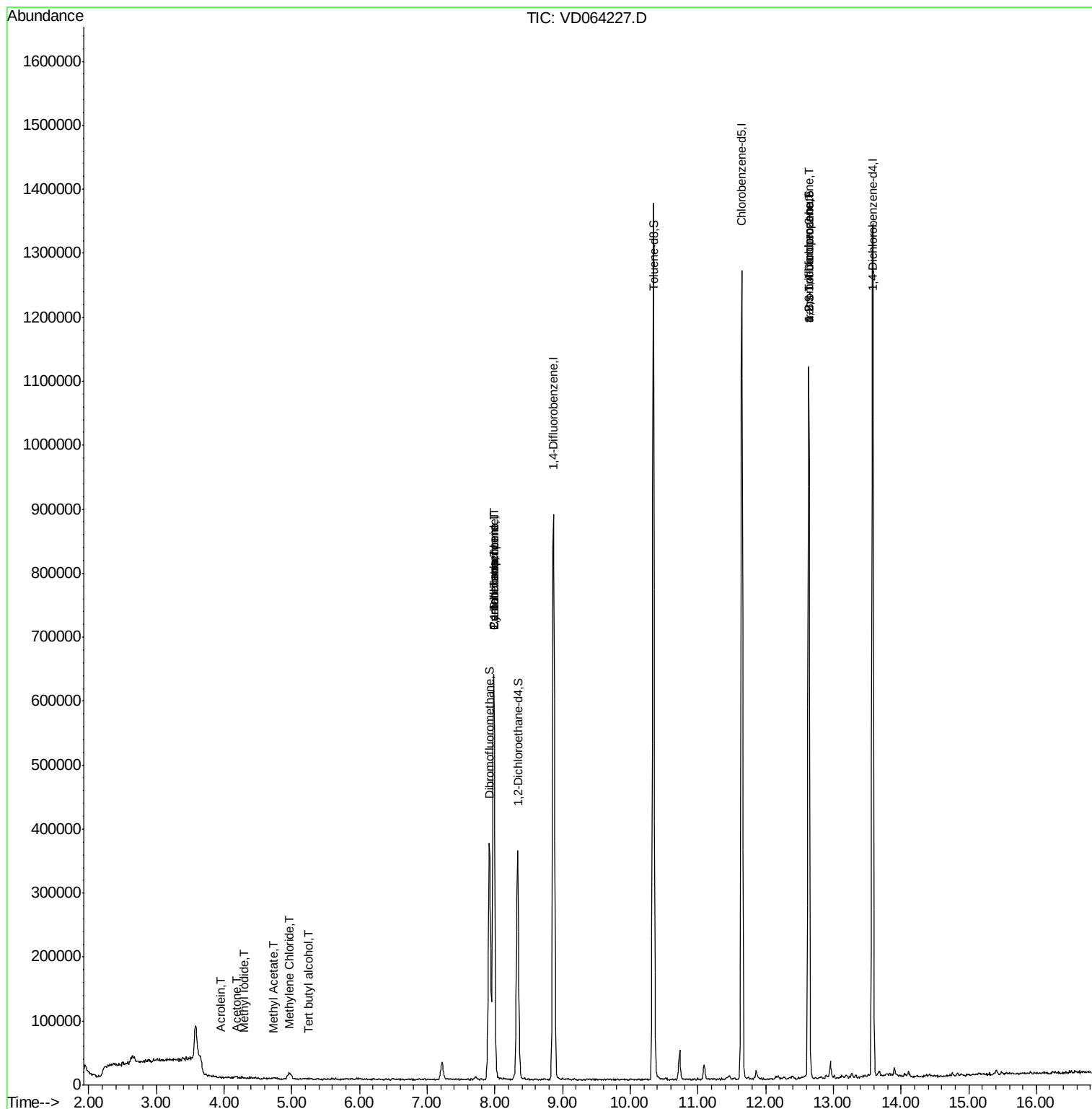
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 10) Methyl Iodide              | 4.30  | 142 | 237    | 2.075   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 5.25  | 59  | 1014   | 3.408   | ug/l # | 69     |
| 13) Acrolein                   | 3.94  | 56  | 479    | 1.903   | ug/l # | 15     |
| 16) Acetone                    | 4.17  | 43  | 4908   | 4.864   | ug/l   | 94     |
| 18) Methyl Acetate             | 4.73  | 43  | 4007   | 1.422   | ug/l # | 78     |
| 20) Methylene Chloride         | 4.97  | 84  | 7629   | 1.497   | ug/l # | 81     |
| 31) Cyclohexane                | 7.98  | 56  | 10098  | 1.208   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.98  | 75  | 34608  | 4.796   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.98  | 117 | 46655  | 6.042   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75  | 171980 | 57.319  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75  | 171980 | 113.858 | ug/l # | 10     |

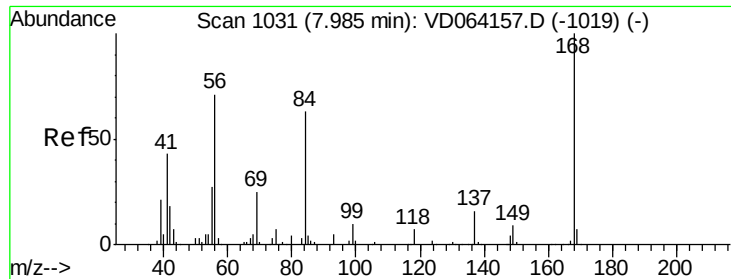
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

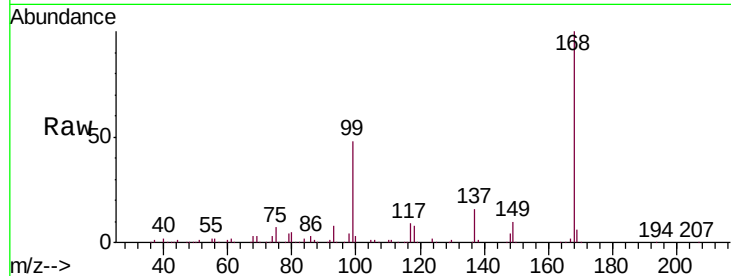
SB-02-7.5-8.0

Tgt Ion:168 Resp: 517941

Ion Ratio Lower Upper

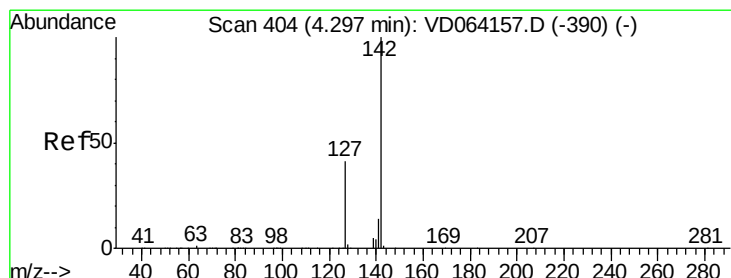
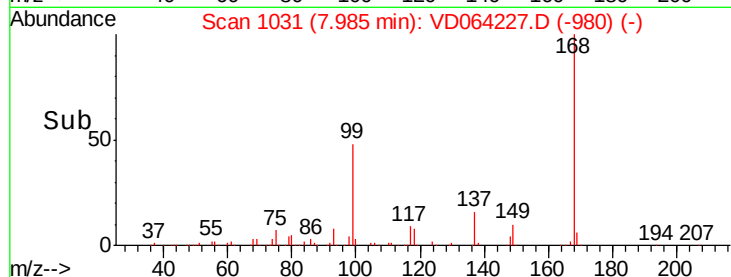
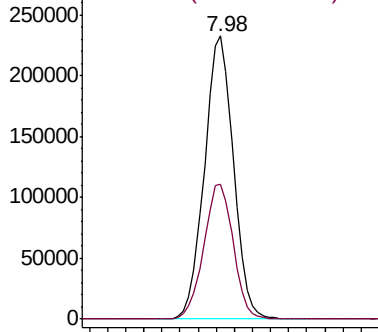
168 100

99 47.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V



#10

Methyl Iodide

Concen: 2.075 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

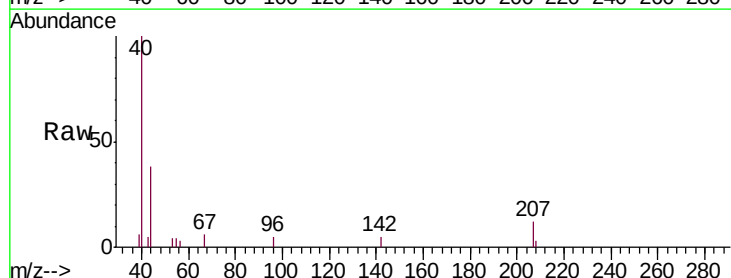
Tgt Ion:142 Resp: 237

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

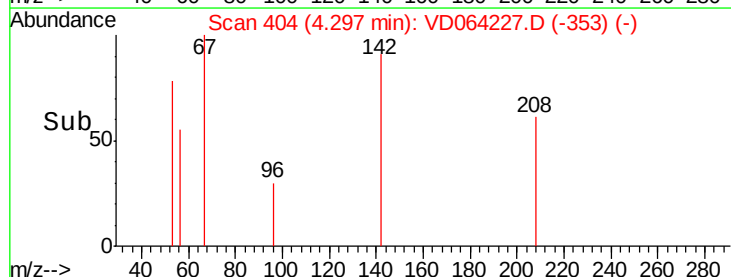
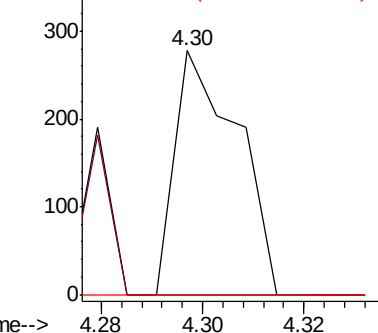
141 0.0 11.2 16.8#

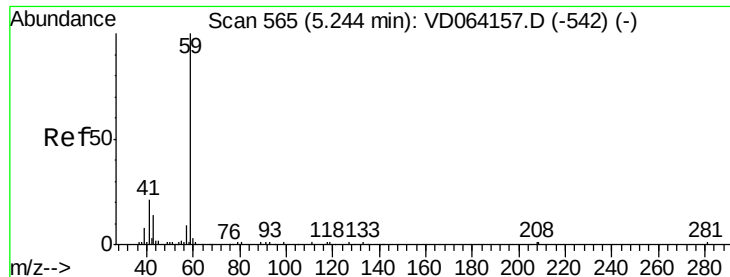


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



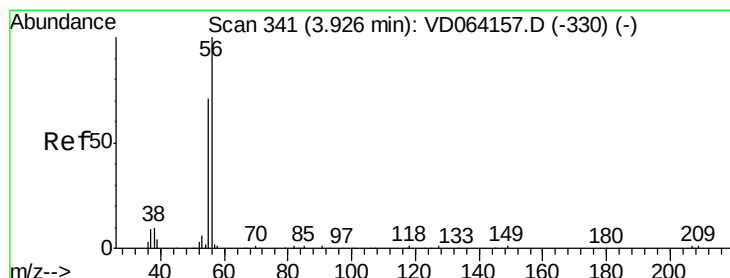
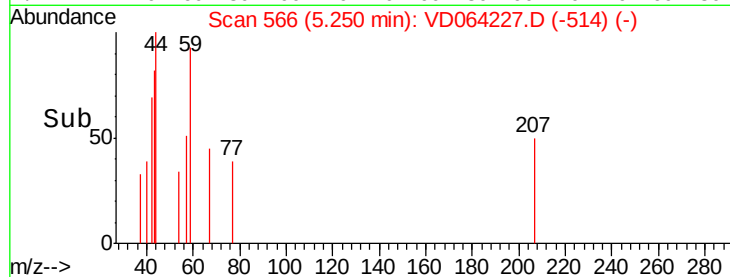
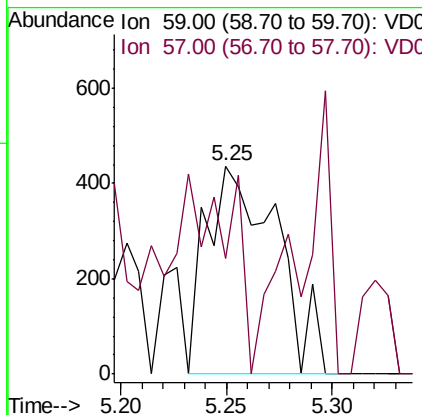
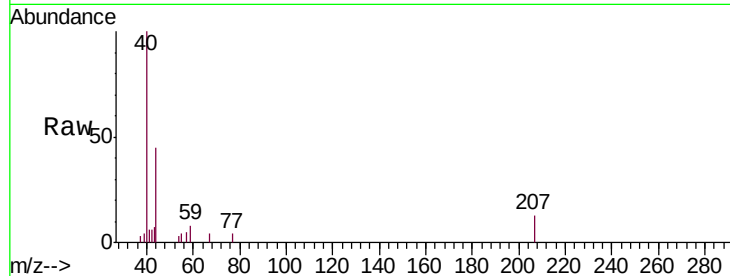


#11

Tert butyl alcohol  
 Concen: 3.408 ug/l  
 RT: 5.25 min Scan# 566  
 Delta R.T. 0.01 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-02-7.5-8.0

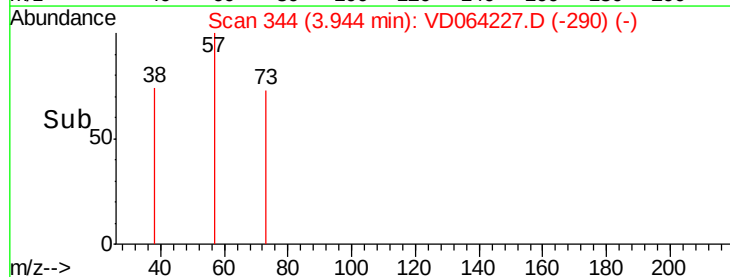
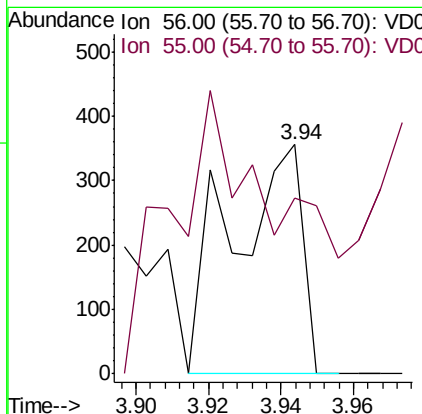
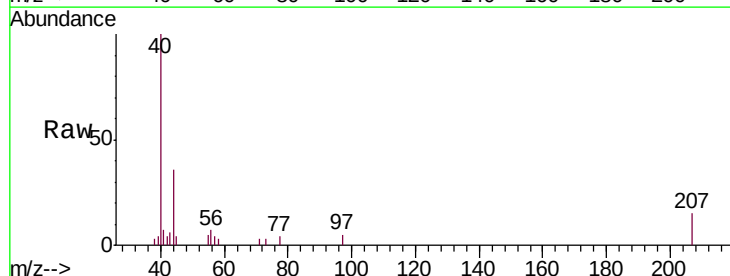
Tgt Ion: 59 Resp: 1014  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 9.4 14.2#

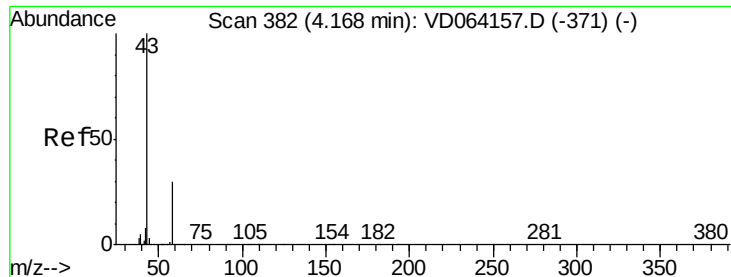


#13

Acrolein  
 Concen: 1.903 ug/l  
 RT: 3.94 min Scan# 344  
 Delta R.T. 0.02 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

Tgt Ion: 56 Resp: 479  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 56.1 84.1#





#16

Acetone

Concen: 4.864 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

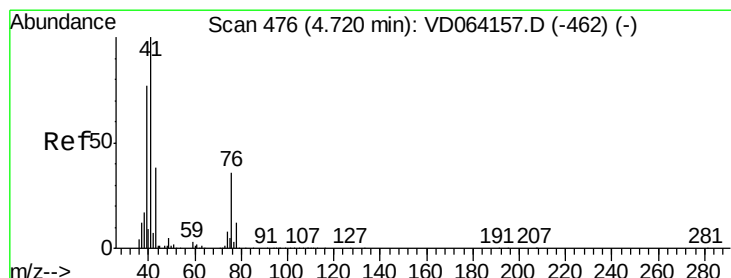
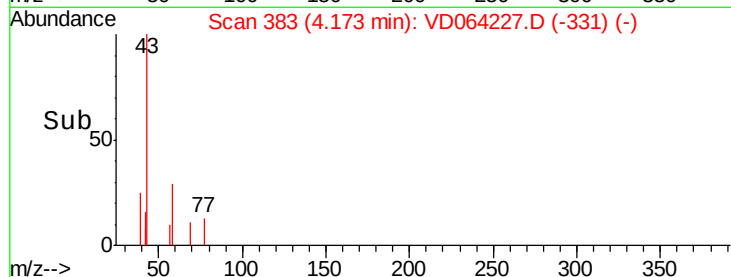
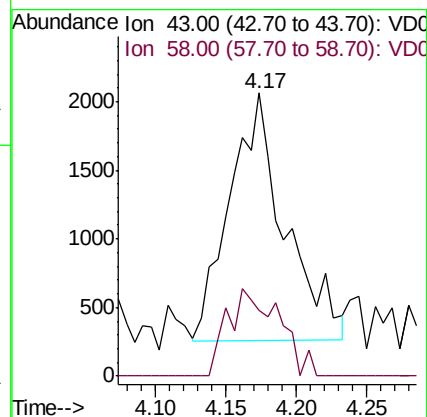
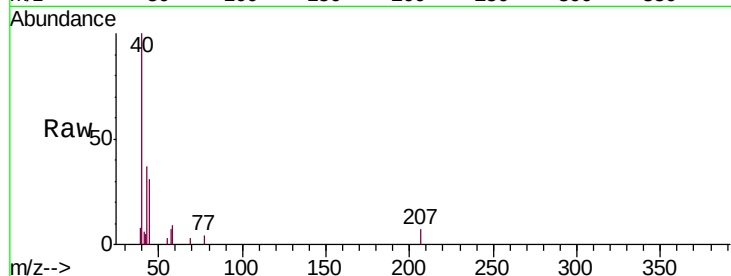
SB-02-7.5-8.0

Tgt Ion: 43 Resp: 4908

Ion Ratio Lower Upper

43 100

58 26.8 24.1 36.1



#18

Methyl Acetate

Concen: 1.422 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD064227.D

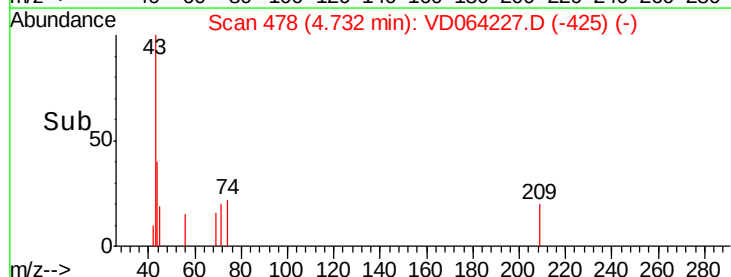
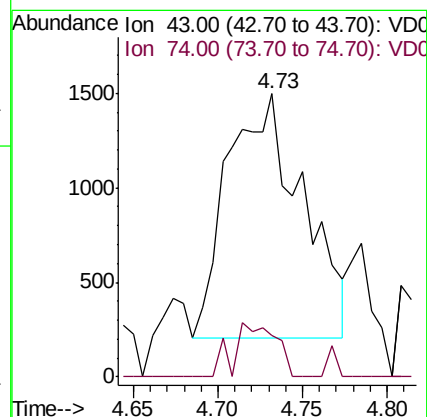
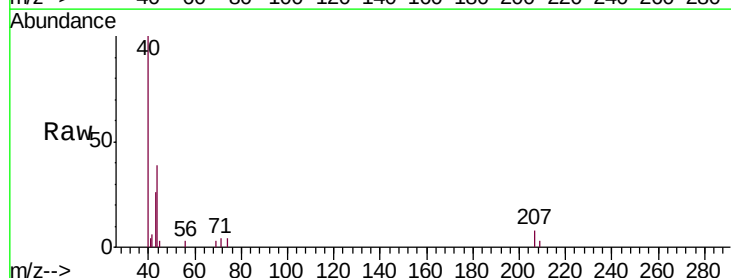
Acq: 15 Nov 2019 15:07

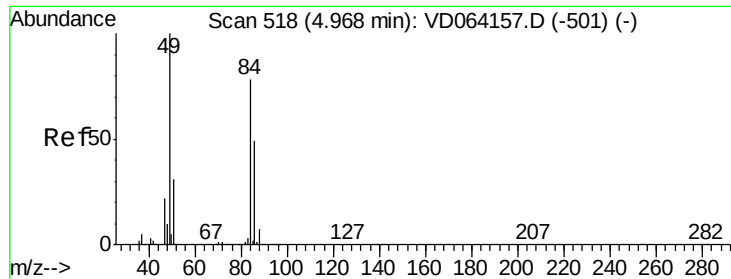
Tgt Ion: 43 Resp: 4007

Ion Ratio Lower Upper

43 100

74 12.3 18.4 27.6#

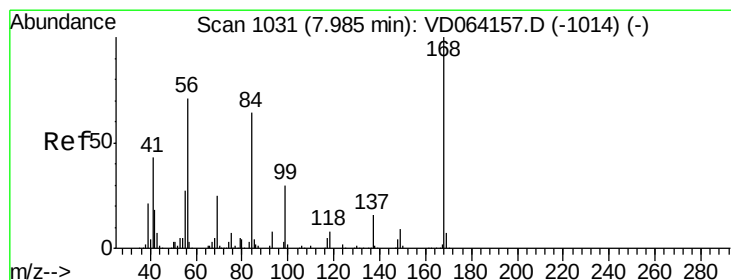
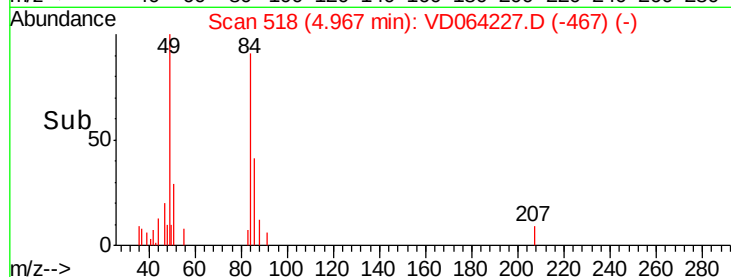
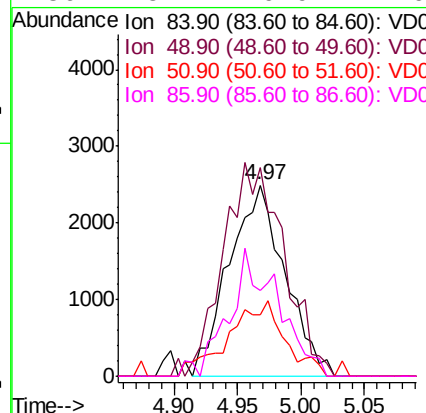
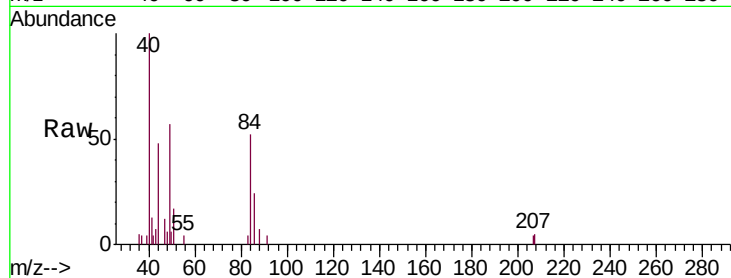




#20  
Methylene Chloride  
Concen: 1.497 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. -0.00 min  
Lab File: VD064227.D  
Acq: 15 Nov 2019 15:07

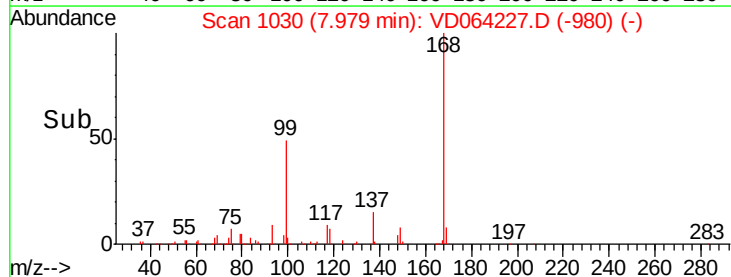
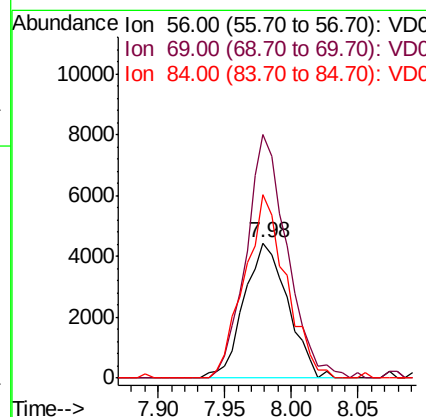
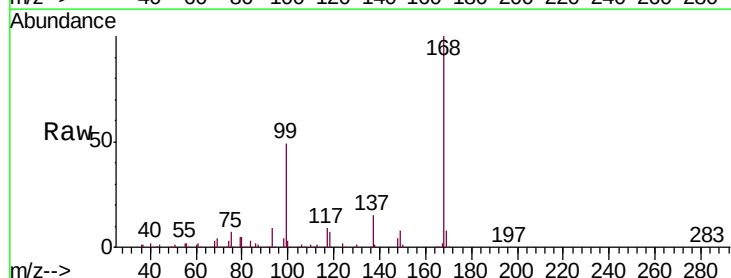
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-02-7.5-8.0

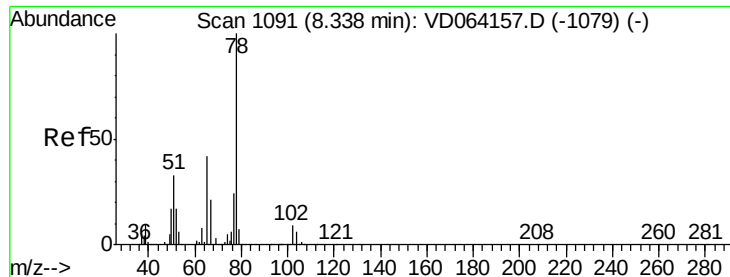
Tgt Ion: 84 Resp: 7629  
Ion Ratio Lower Upper  
84 100  
49 109.5 102.1 153.1  
51 24.5 32.2 48.2#  
86 45.2 49.9 74.9#



#31  
Cyclohexane  
Concen: 1.208 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064227.D  
Acq: 15 Nov 2019 15:07

Tgt Ion: 56 Resp: 10098  
Ion Ratio Lower Upper  
56 100  
69 180.6 28.2 42.4#  
84 136.3 71.8 107.6#

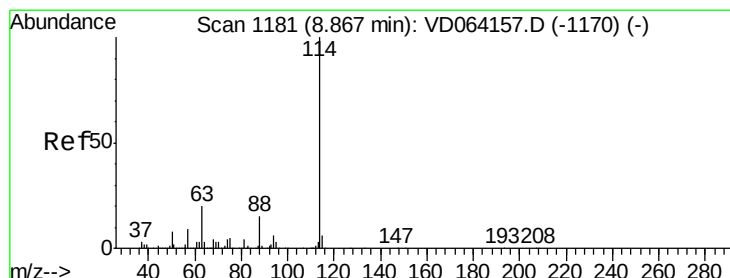
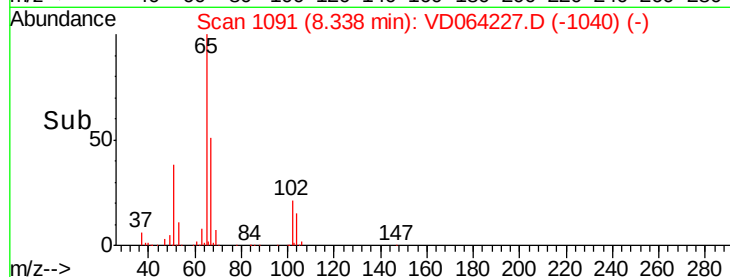
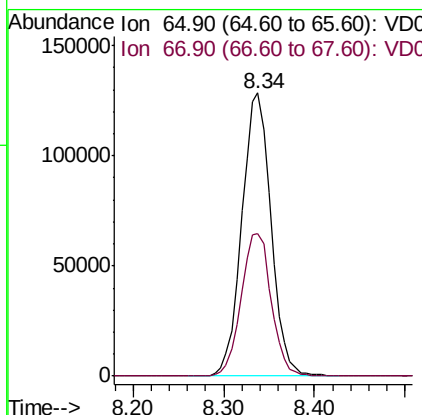
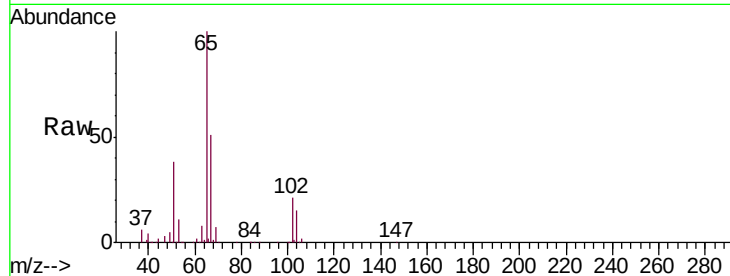




#33  
 1,2-Dichloroethane-d4  
 Concen: 67.204 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

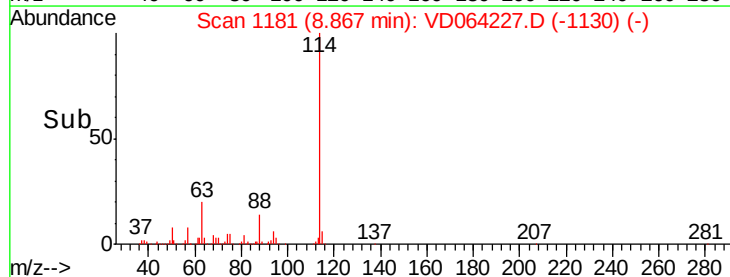
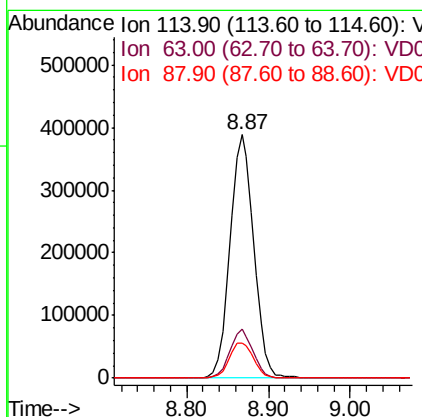
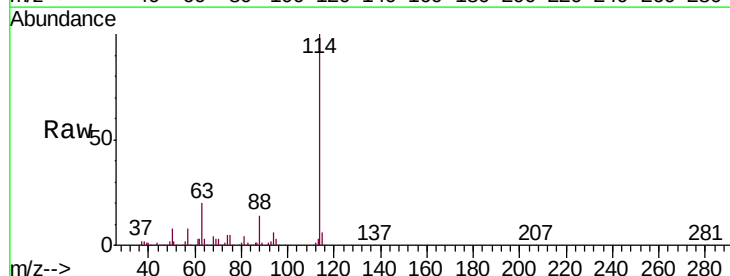
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-02-7.5-8.0

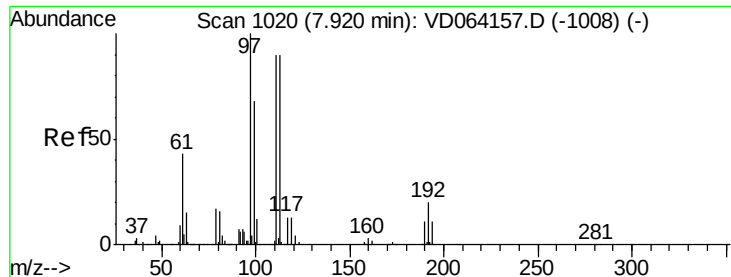
Tgt Ion: 65 Resp: 286273  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

Tgt Ion: 114 Resp: 781876  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 40.0  
 88 14.5 0.0 30.2

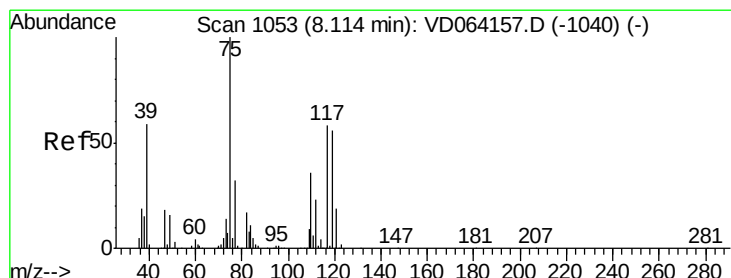
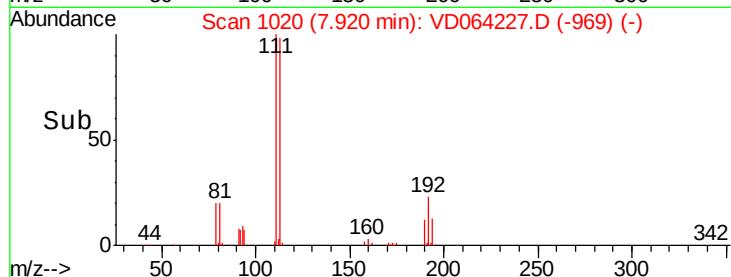
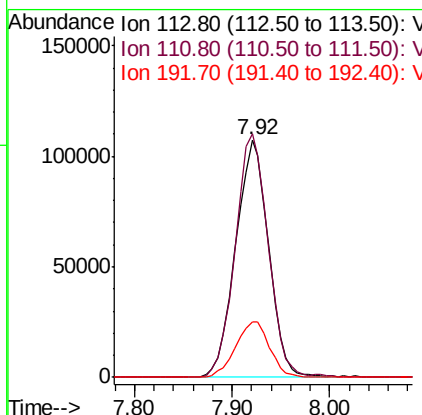
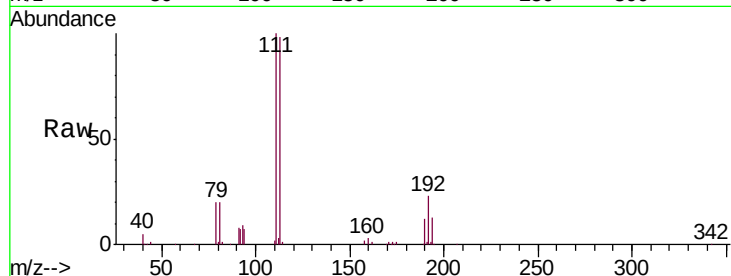




#35  
 Dibromofluoromethane  
 Concen: 55.995 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

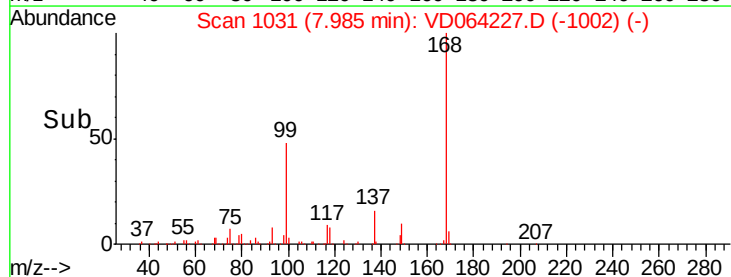
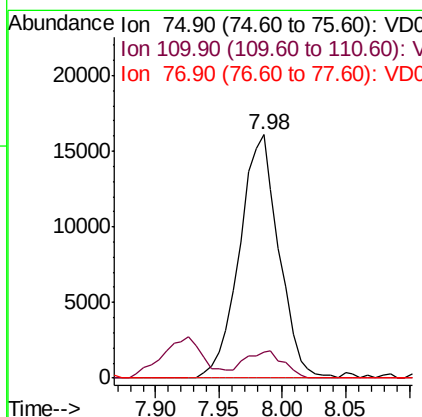
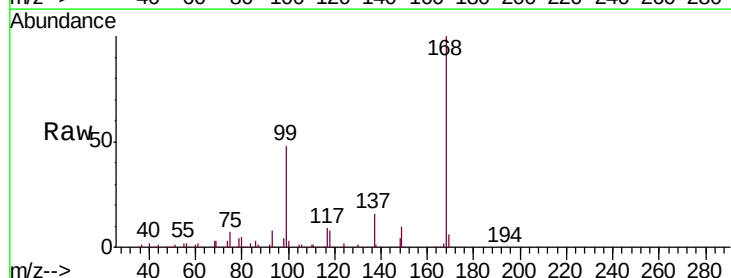
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-02-7.5-8.0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.5  | 122.3 |
| 192     | 24.1  | 18.8  | 28.2  |

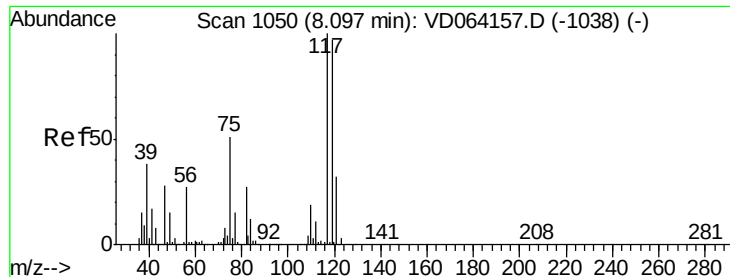


#36  
 1,1-Dichloropropene  
 Concen: 4.796 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064227.D  
 Acq: 15 Nov 2019 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.2  | 18.3  | 54.9# |
| 77      | 0.0   | 25.0  | 37.6# |







#38

Carbon Tetrachloride

Concen: 6.042 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

SB-02-7.5-8.0

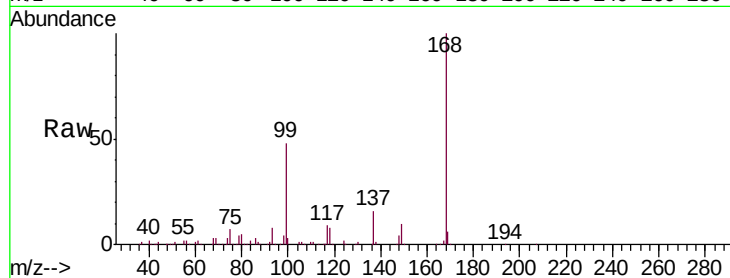
Tgt Ion:117 Resp: 46655

Ion Ratio Lower Upper

117 100

119 5.2 77.2 115.8#

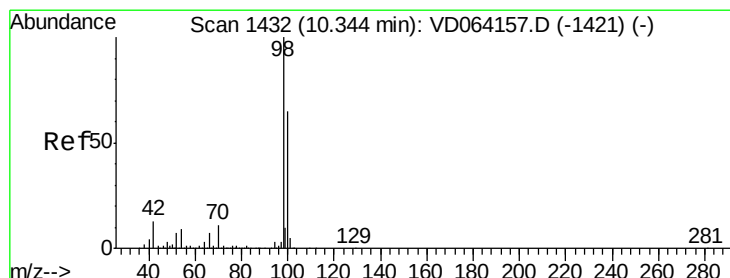
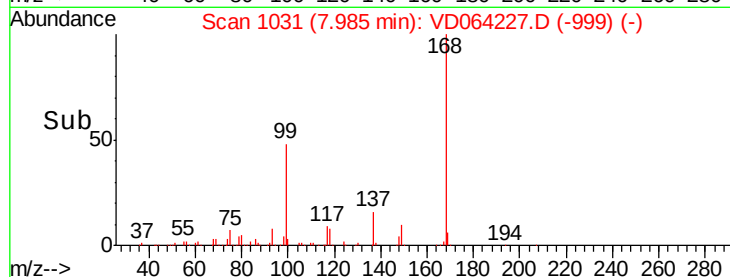
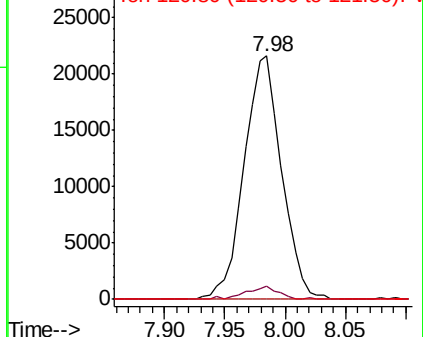
121 0.0 25.5 38.3#



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: 54.925 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064227.D

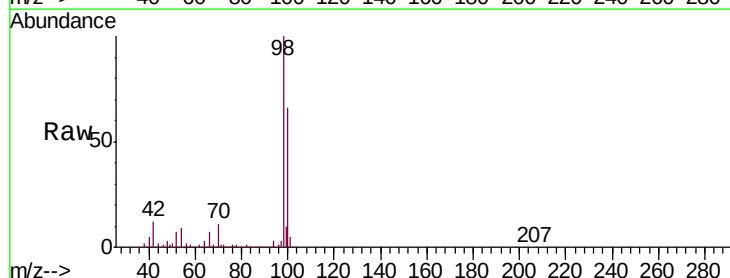
Acq: 15 Nov 2019 15:07

Tgt Ion: 98 Resp: 929934

Ion Ratio Lower Upper

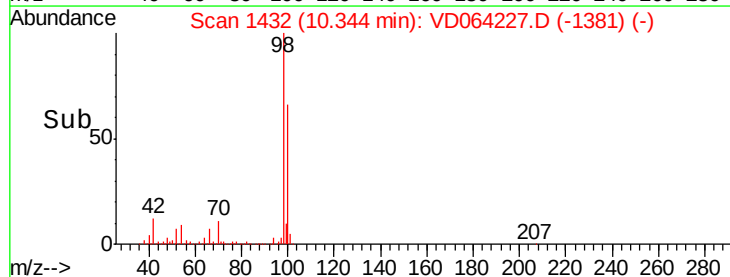
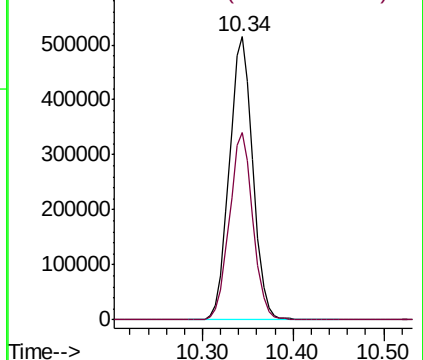
98 100

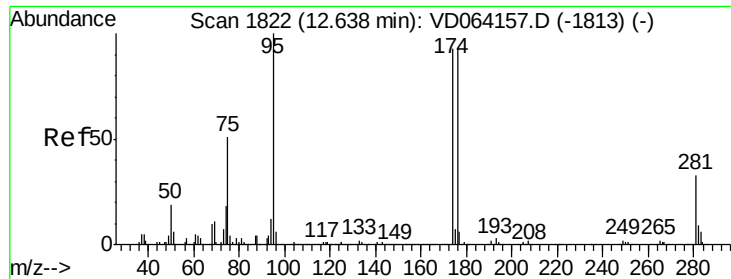
100 65.7 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 56.329 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

SB-02-7.5-8.0

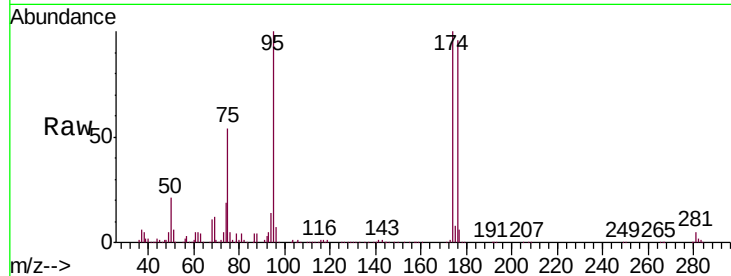
Tgt Ion: 95 Resp: 330274

Ion Ratio Lower Upper

95 100

174 95.7 0.0 183.6

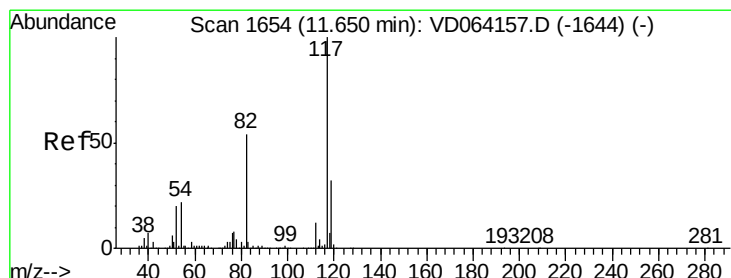
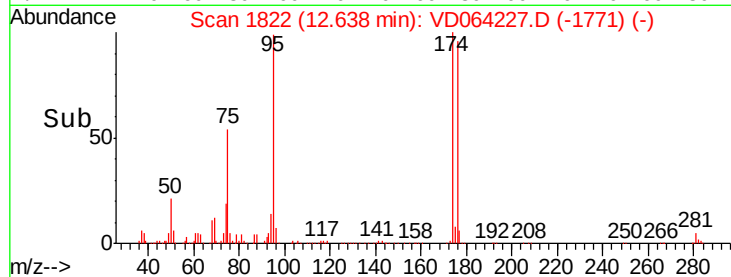
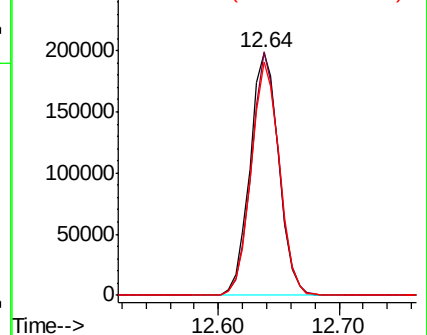
176 94.1 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

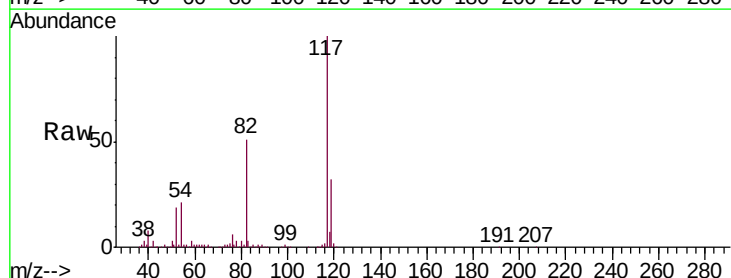
Tgt Ion: 117 Resp: 738048

Ion Ratio Lower Upper

117 100

82 51.5 42.8 64.2

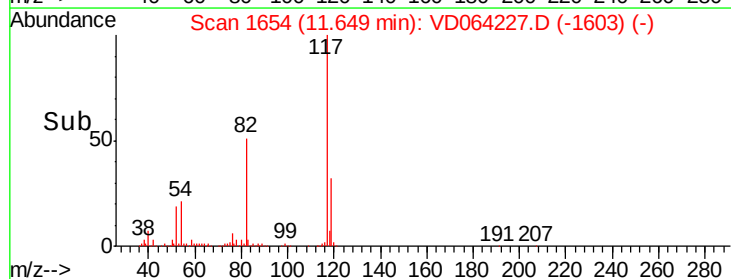
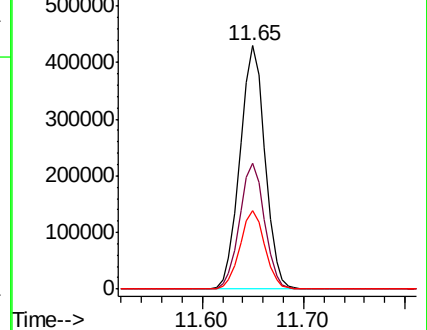
119 32.3 25.6 38.4

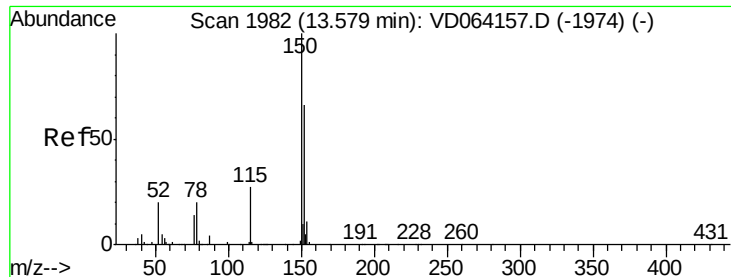


Abundance Ion 116.90 (116.60 to 117.60): V

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. 0.01 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

SB-02-7.5-8.0

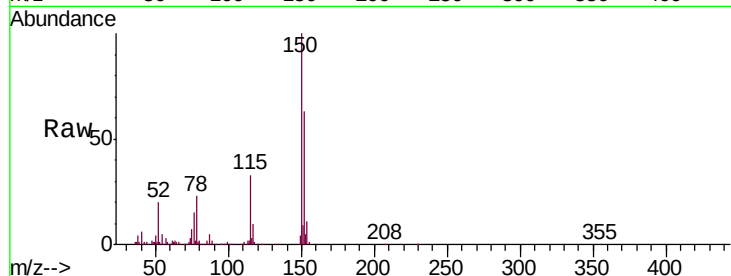
Tgt Ion:152 Resp: 372504

Ion Ratio Lower Upper

152 100

115 54.1 27.4 82.2

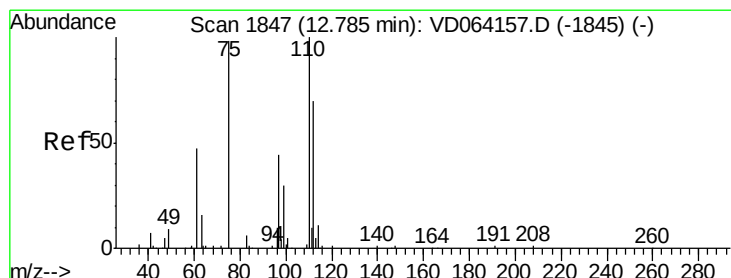
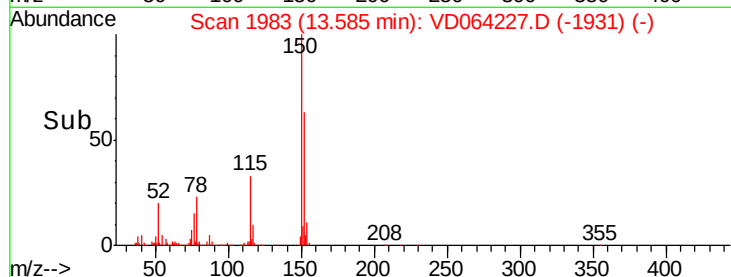
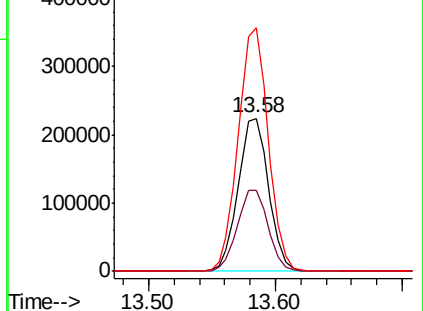
150 157.5 0.0 351.6



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: 57.319 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064227.D

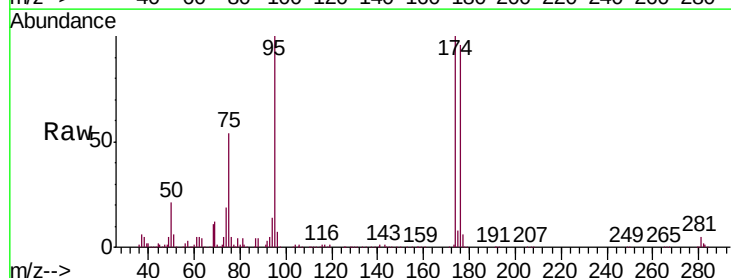
Acq: 15 Nov 2019 15:07

Tgt Ion: 75 Resp: 171980

Ion Ratio Lower Upper

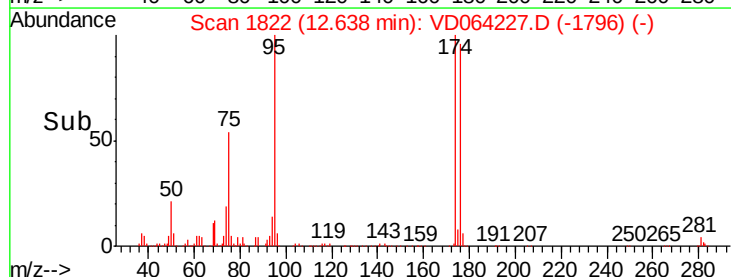
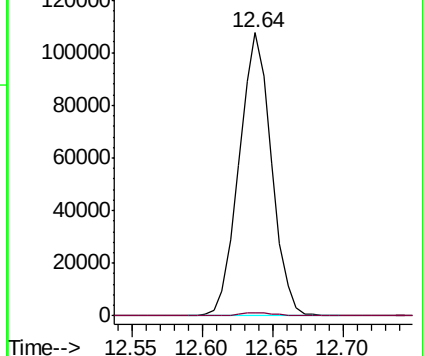
75 100

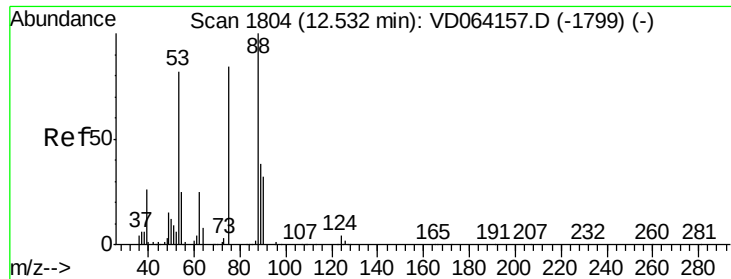
77 1.3 0.0 0.0#



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: 113.858 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064227.D

Acq: 15 Nov 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

SB-02-7.5-8.0

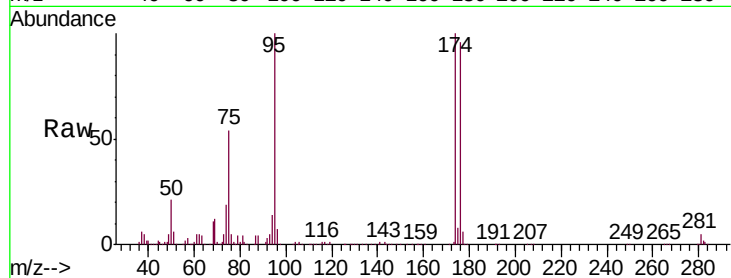
Tgt Ion: 75 Resp: 171980

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

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

