

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102920\  
 Data File : VD067453.D  
 Acq On : 29 Oct 2020 15:46  
 Operator : VA/SY  
 Sample : L4560-02  
 Misc : 4.66G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B308-B309-LOC1-SO-0002

Quant Time: Oct 30 02:28:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 11817    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 17675    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 17718    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 8456     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 7880     | 66.56  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 133.12% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 5704     | 48.49  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.98%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 21002    | 49.34  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 6872     | 46.43  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 92.86%  |          |

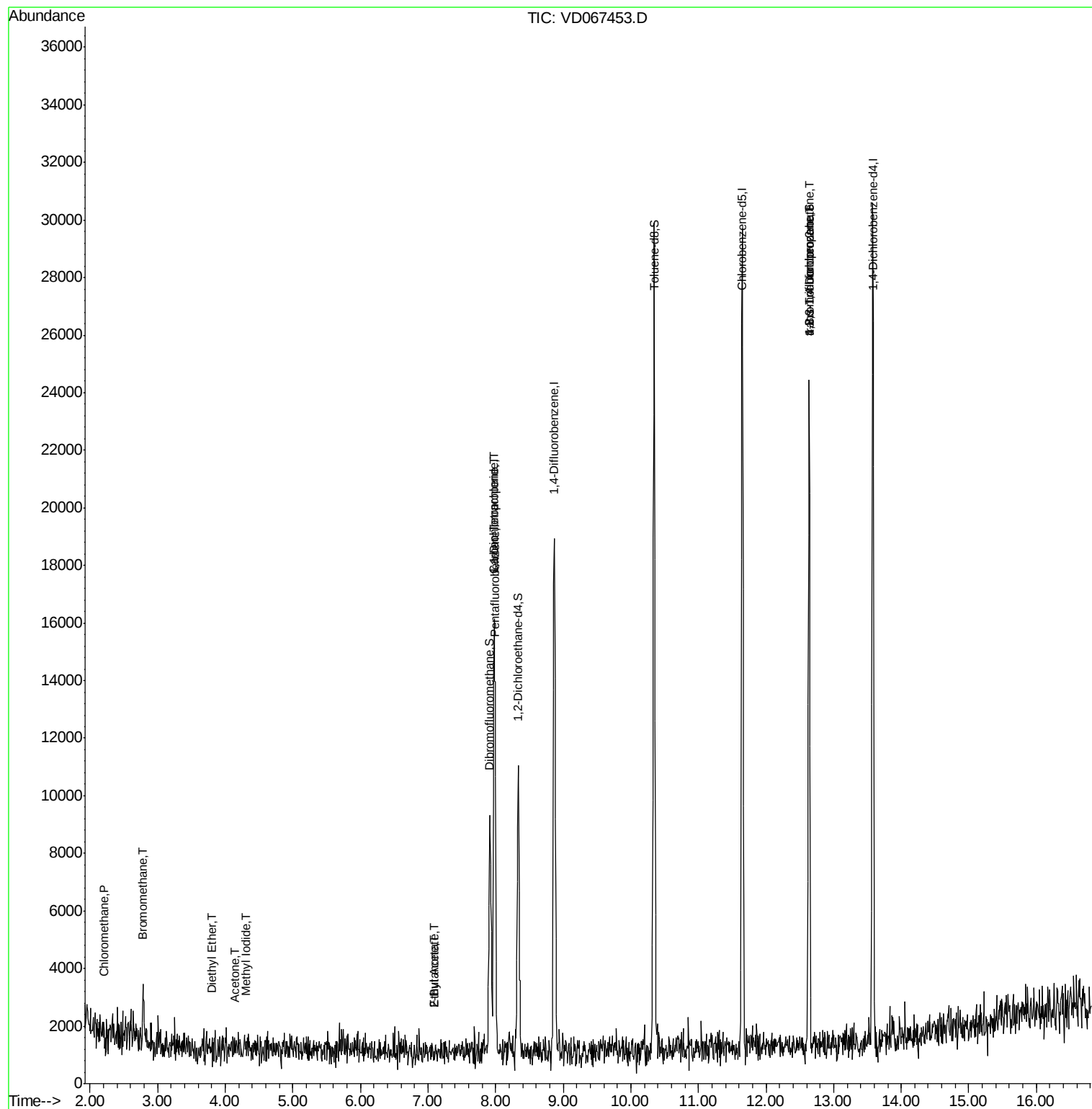
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.21  | 50   | 145      | 1.950     | ug/l # | 41     |
| 5) Bromomethane                | 2.79  | 94   | 1255     | 20.726    | ug/l # | 75     |
| 8) Diethyl Ether               | 3.80  | 74   | 56       | 1.191     | ug/l # | 12     |
| 10) Methyl Iodide              | 4.31  | 142  | 207      | 2.056     | ug/l # | 37     |
| 16) Acetone                    | 4.15  | 43   | 58       | 3.498     | ug/l # | 42     |
| 20) Methylene Chloride         | 4.97  | 84   | 292      | Below Cal | #      | 16     |
| 25) 2-Butanone                 | 7.09  | 43   | 59       | 3.122     | ug/l # | 45     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 778      | 5.193     | ug/l # | 39     |
| 37) Ethyl Acetate              | 7.09  | 43   | 59       | 1.339     | ug/l # | 61     |
| 38) Carbon Tetrachloride       | 7.97  | 117  | 1461     | 7.631     | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 3567     | 60.862    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 3567     | 138.017   | ug/l # | 10     |

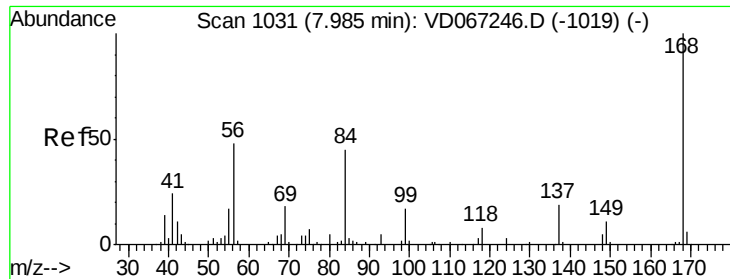
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102920\  
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Sample : L4560-02  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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B308-B309-LOC1-SO-0002

Quant Time: Oct 30 02:28:27 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

Instrument :

MSVOA\_D

ClientSampleId :

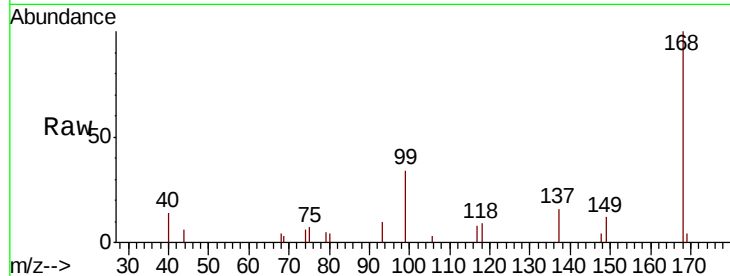
B308-B309-LOC1-SO-0002

Tot Ion:168 Resp: 11817

Ion Ratio Lower Upper

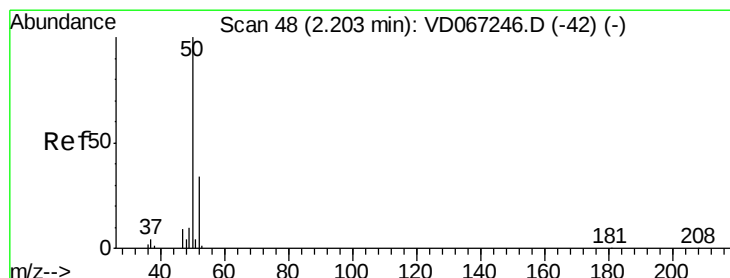
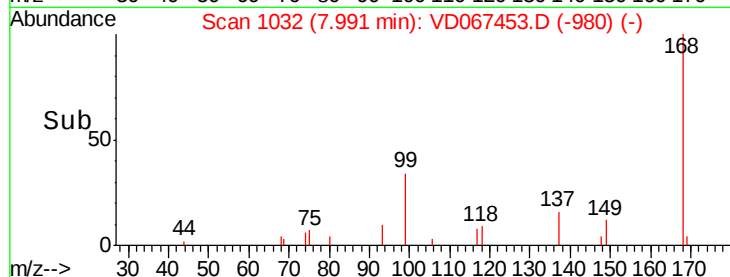
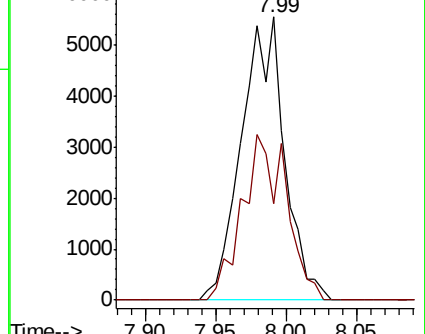
168 100

99 34.3 45.9 68.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.950 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD067453.D

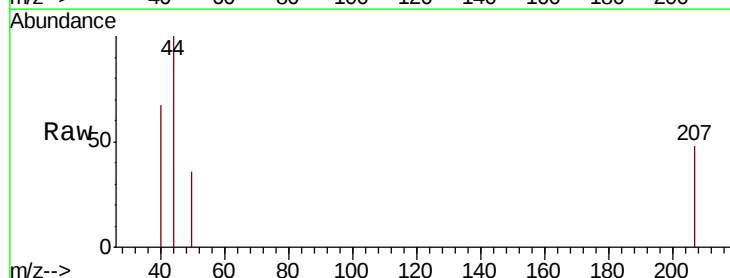
Acq: 29 Oct 2020 15:46

Tgt Ion: 50 Resp: 145

Ion Ratio Lower Upper

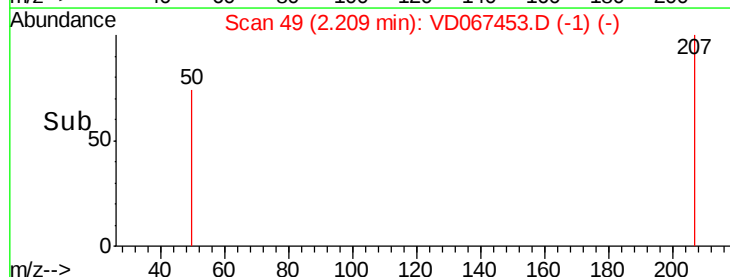
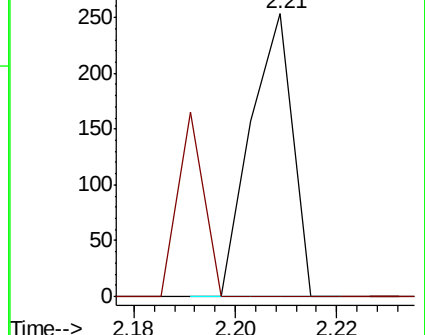
50 100

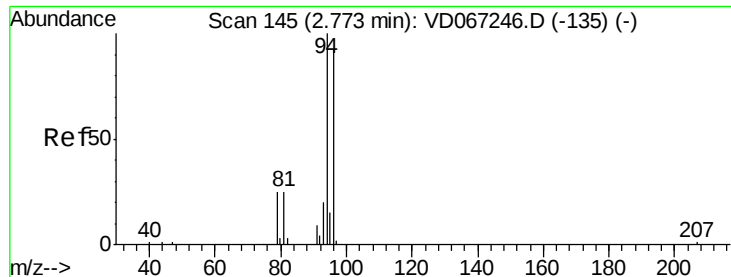
52 0.0 27.1 40.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 20.726 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

Instrument :

MSVOA\_D

ClientSampleId :

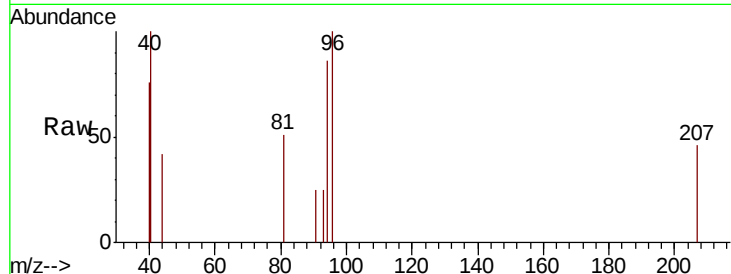
B308-B309-LOC1-SO-0002

Tot Ion: 94 Resp: 1255

Ion Ratio Lower Upper

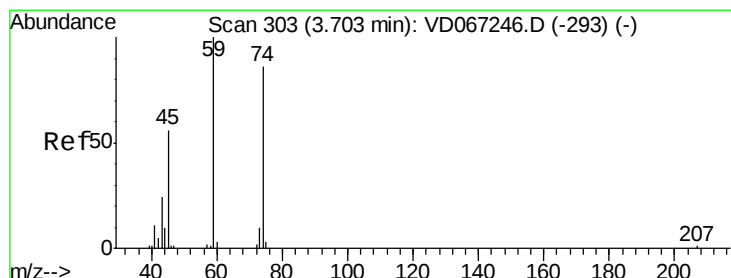
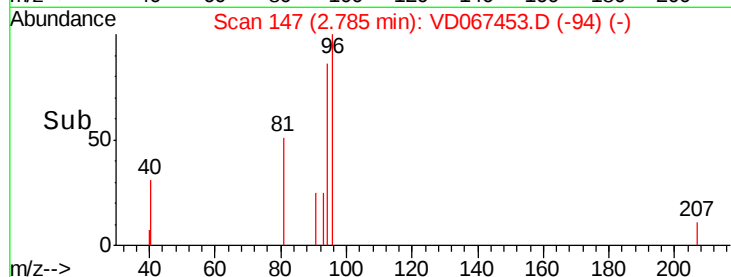
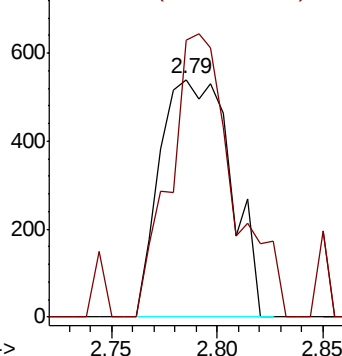
94 100

96 116.5 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#8

Diethyl Ether

Concen: 1.191 ug/l

RT: 3.80 min Scan# 320

Delta R.T. 0.10 min

Lab File: VD067453.D

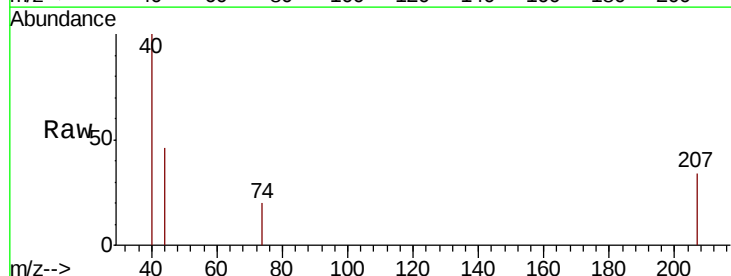
Acq: 29 Oct 2020 15:46

Tgt Ion: 74 Resp: 56

Ion Ratio Lower Upper

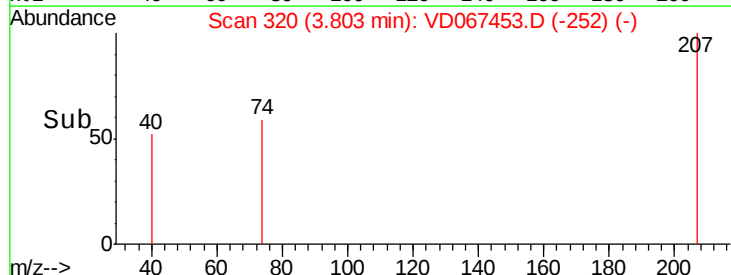
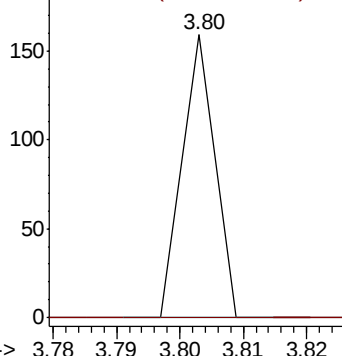
74 100

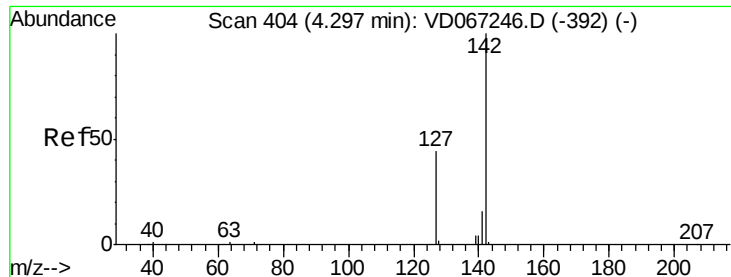
45 0.0 37.0 111.1#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

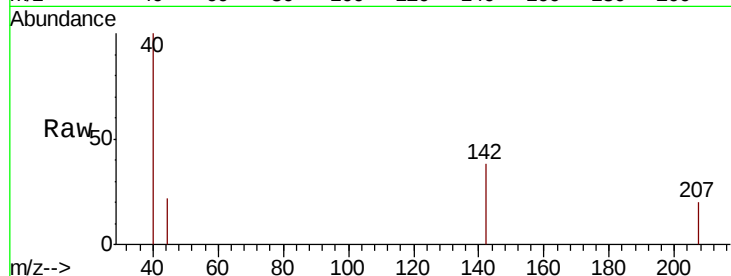




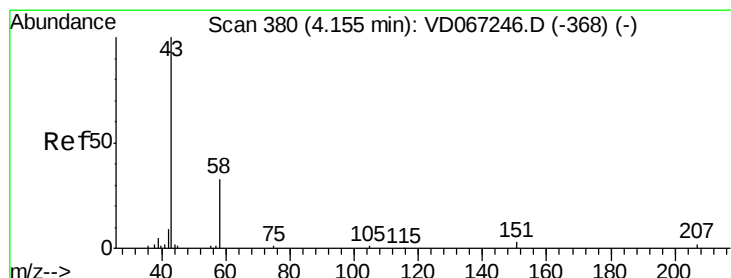
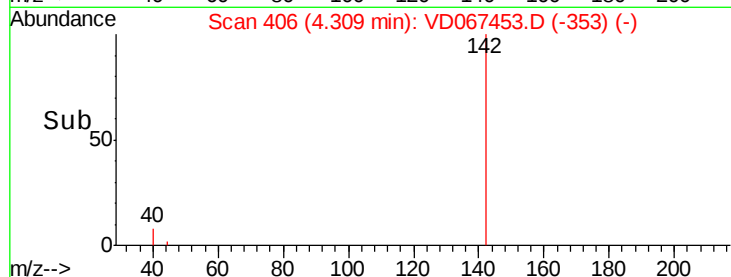
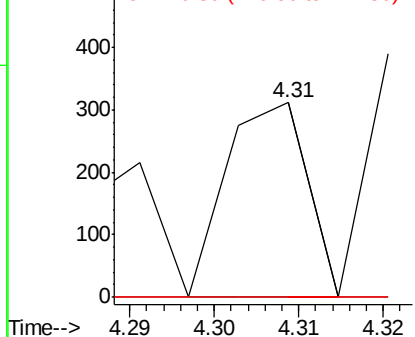
#10  
Methvl Iodide  
Concen: 2.056 ug/l  
RT: 4.31 min Scan# 406  
Delta R.T. 0.01 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
B308-B309-LOC1-SO-0002

Tot Ion:142 Resp: 207  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.4 57.6#  
141 0.0 11.6 17.4#

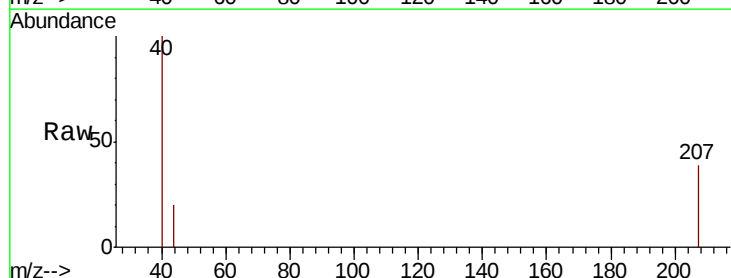


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

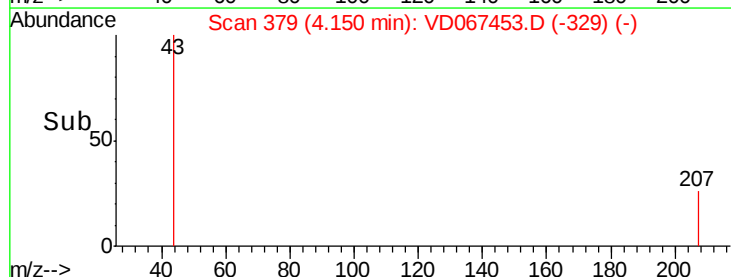
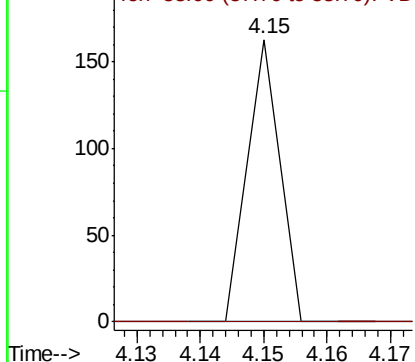


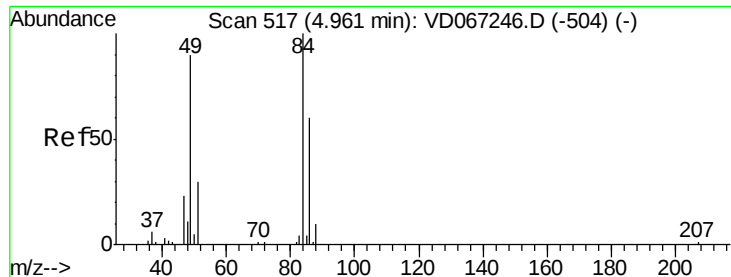
#16  
Acetone  
Concen: 3.498 ug/l  
RT: 4.15 min Scan# 379  
Delta R.T. -0.01 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Tgt Ion: 43 Resp: 58  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

Instrument :

MSVOA\_D

ClientSampleId :

B308-B309-LOC1-SO-0002

Tot Ion: 84 Resp: 292

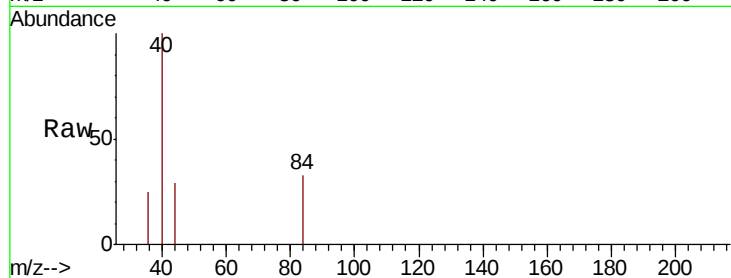
Ion Ratio Lower Upper

84 100

49 0.0 72.2 108.2#

51 0.0 23.8 35.8#

86 0.0 48.2 72.4#

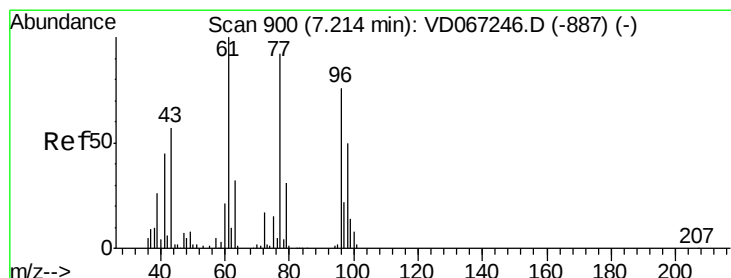
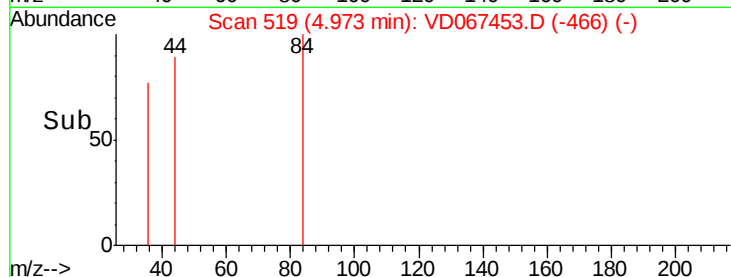
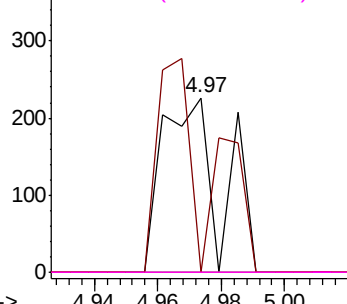


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 3.122 ug/l

RT: 7.09 min Scan# 879

Delta R.T. -0.12 min

Lab File: VD067453.D

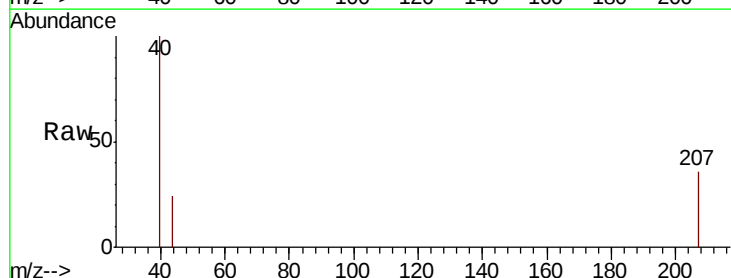
Acq: 29 Oct 2020 15:46

Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

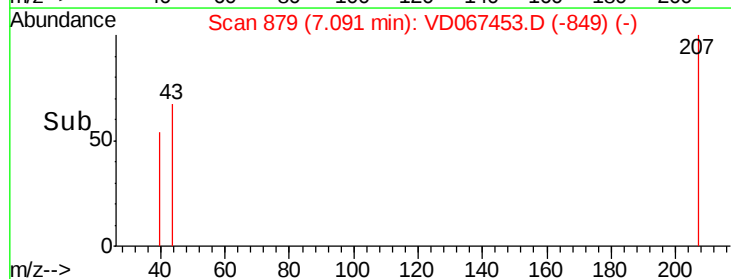
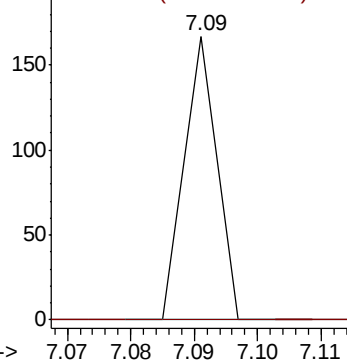
43 100

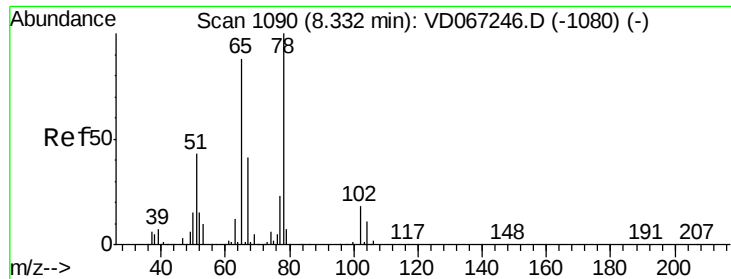
72 0.0 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

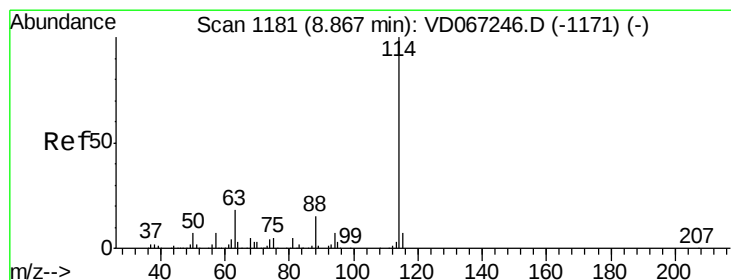
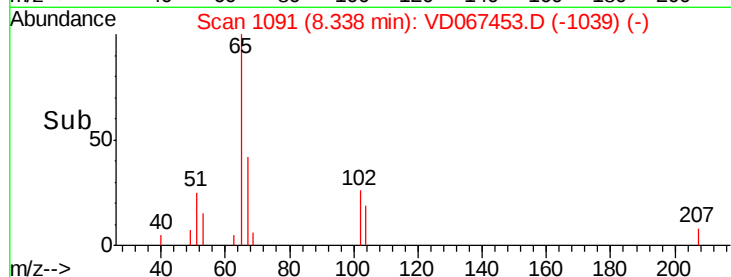
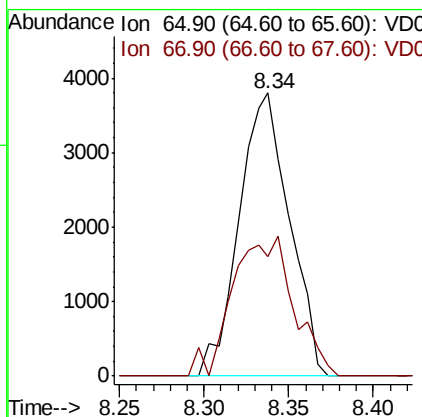
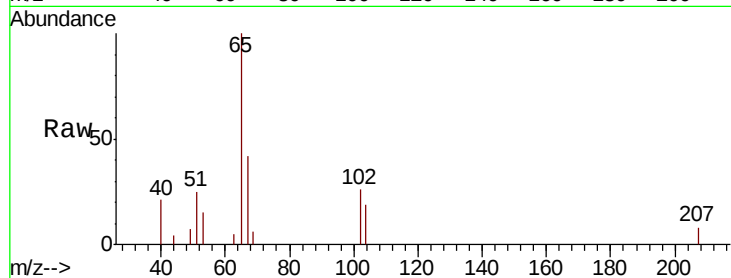




#33  
 1,2-Dichloroethane-d4  
 Concen: 66.560 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. 0.01 min  
 Lab File: VD067453.D  
 Acq: 29 Oct 2020 15:46

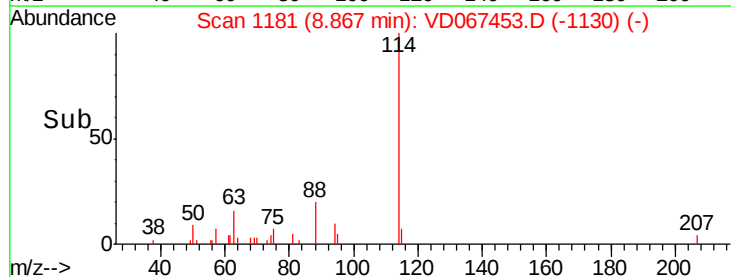
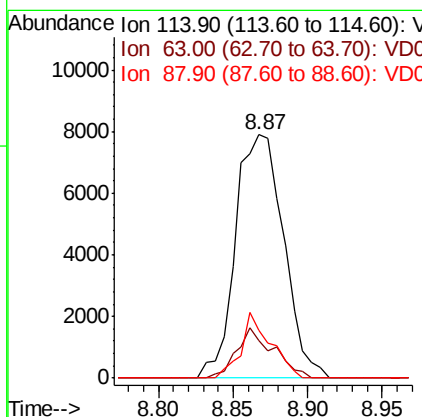
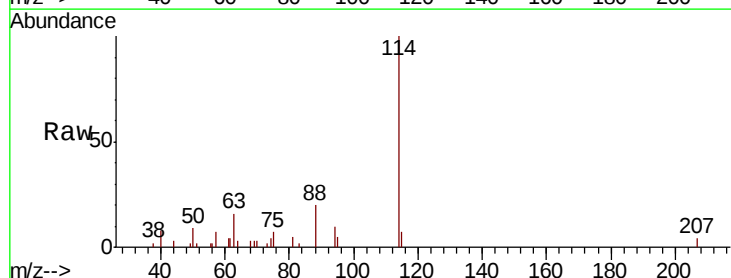
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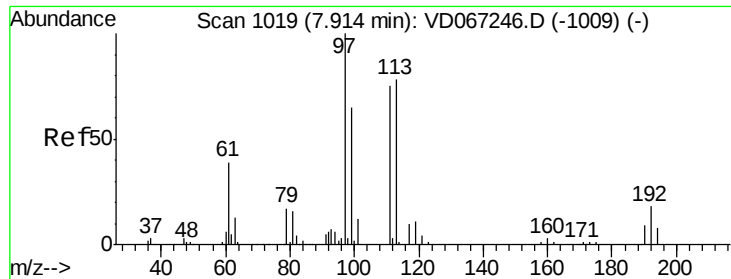
Tot Ion: 65 Resp: 7880  
 Ion Ratio Lower Upper  
 65 100  
 67 59.8 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD067453.D  
 Acq: 29 Oct 2020 15:46

Tgt Ion: 114 Resp: 17675  
 Ion Ratio Lower Upper  
 114 100  
 63 15.7 0.0 35.0  
 88 19.7 0.0 30.6

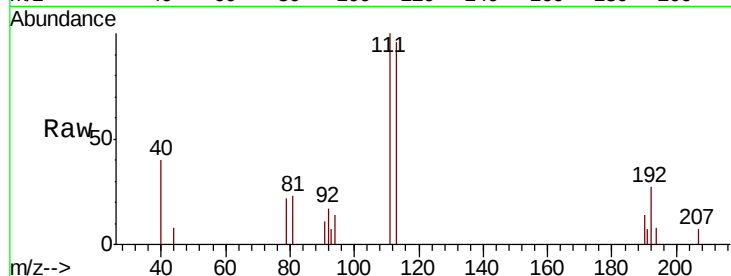




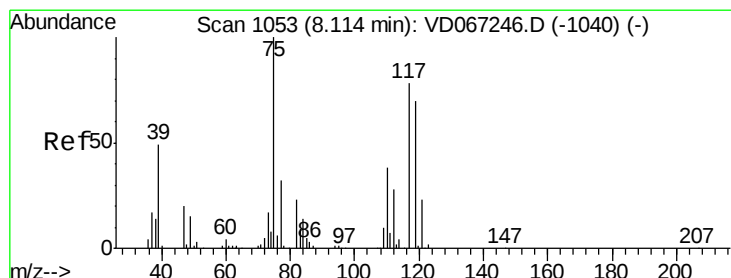
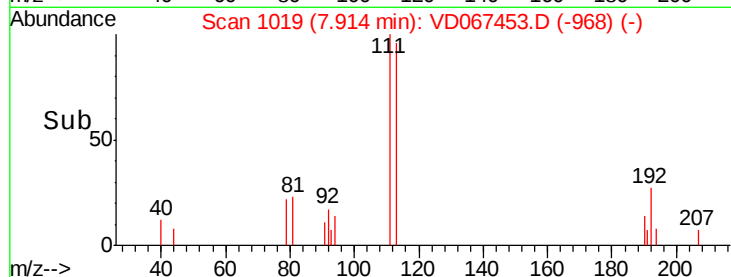
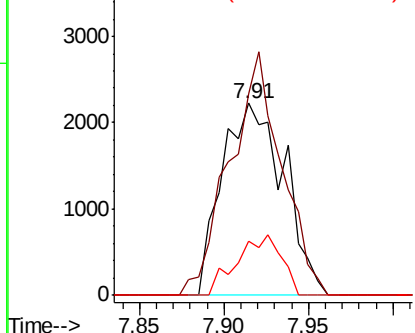
#35  
Dibromofluoromethane  
Concen: 48.492 ug/l  
RT: 7.91 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
B308-B309-LOC1-SO-0002

Tot Ion:113 Resp: 5704  
Ion Ratio Lower Upper  
113 100  
111 106.1 81.6 122.4  
192 22.5 17.0 25.4

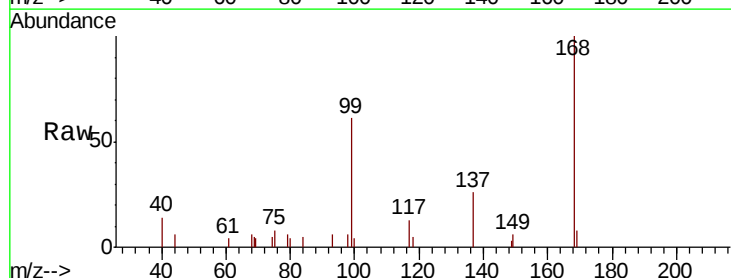


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

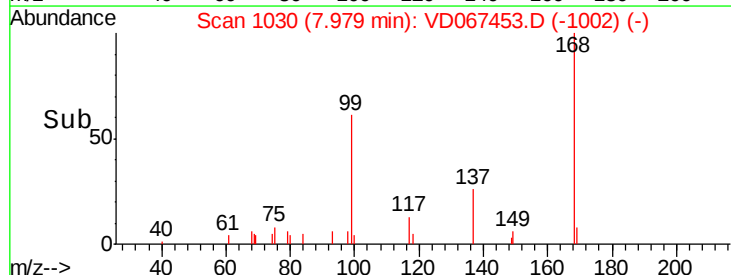
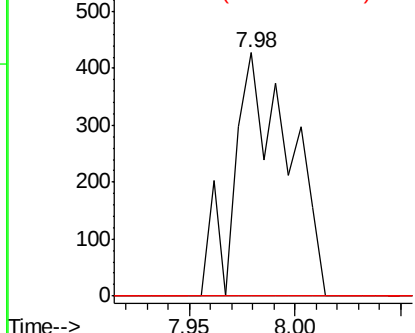


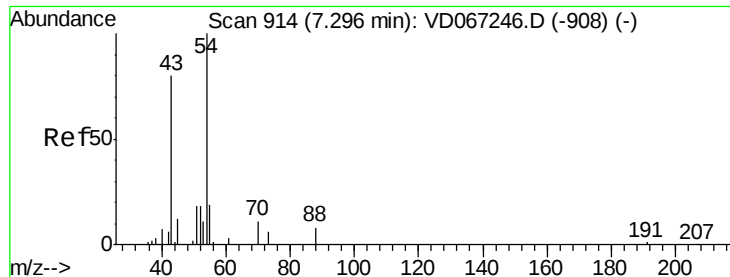
#36  
1,1-Dichloropropene  
Concen: 5.193 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.13 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Tgt Ion: 75 Resp: 778  
Ion Ratio Lower Upper  
75 100  
110 0.0 19.6 58.7#  
77 0.0 24.6 37.0#



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

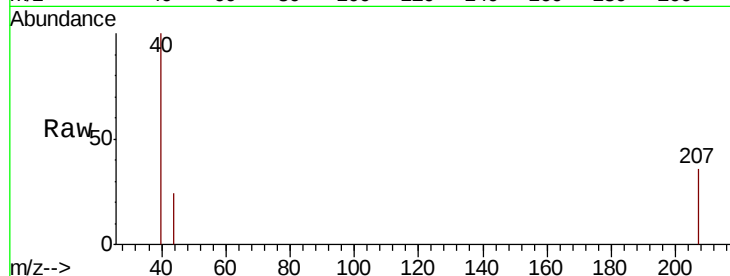




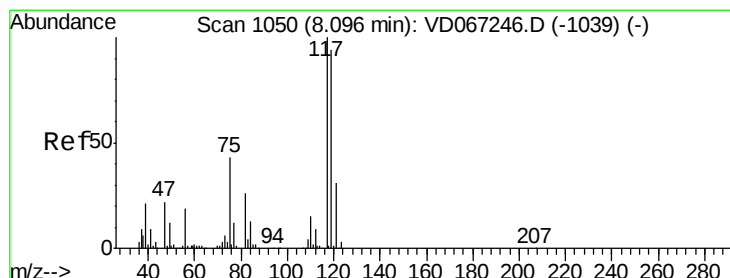
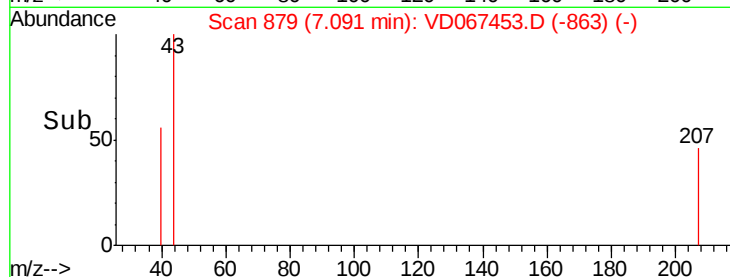
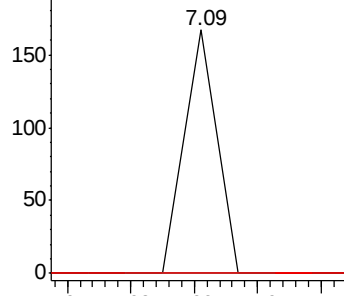
#37  
Ethyl Acetate  
Concen: 1.339 ug/l  
RT: 7.09 min Scan# 879  
Delta R.T. -0.21 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
B308-B309-LOC1-SO-0002

Tot Ion: 43 Resp: 59  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.6 23.4#  
70 0.0 10.4 15.6#

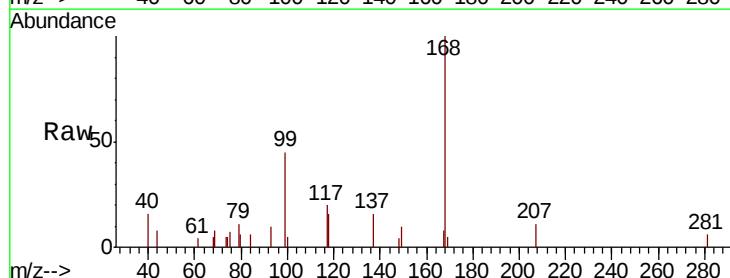


Abundance Ion 43.00 (42.70 to 43.70): VDC  
Ion 60.90 (60.60 to 61.60): VDC  
Ion 70.00 (69.70 to 70.70): VDC

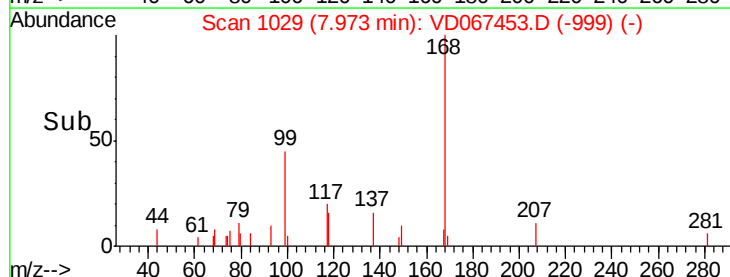
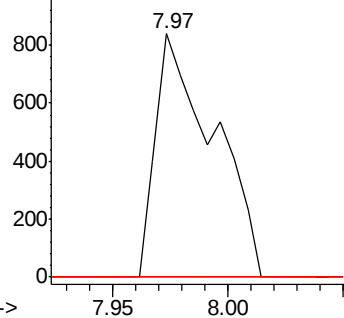


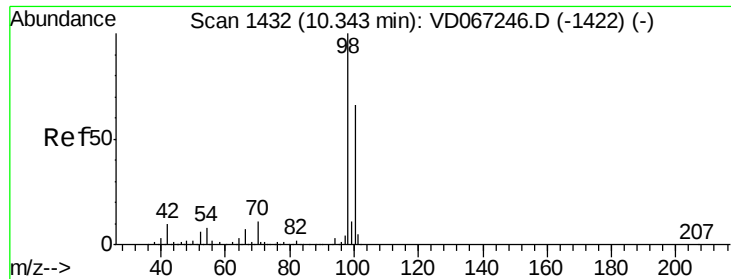
#38  
Carbon Tetrachloride  
Concen: 7.631 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.12 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Tgt Ion: 117 Resp: 1461  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.0 112.4#  
121 0.0 24.9 37.3#



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: 49.337 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

Instrument :

MSVOA\_D

ClientSampleId :

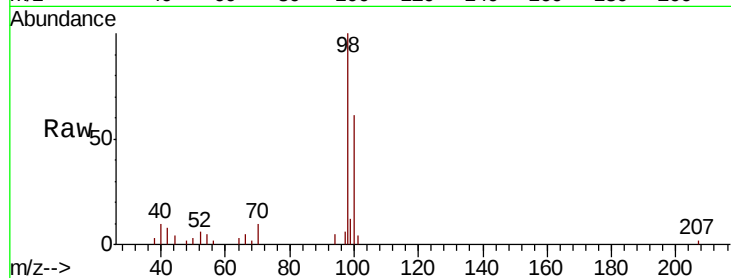
B308-B309-LOC1-SO-0002

Tot Ion: 98 Resp: 21002

Ion Ratio Lower Upper

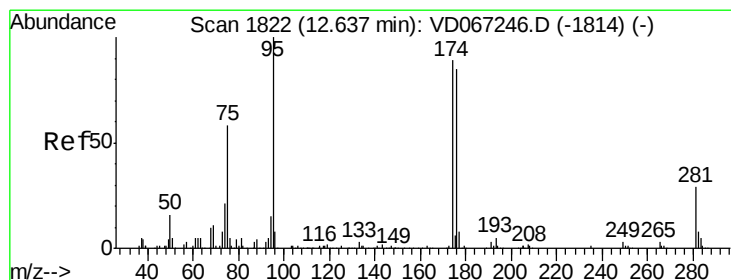
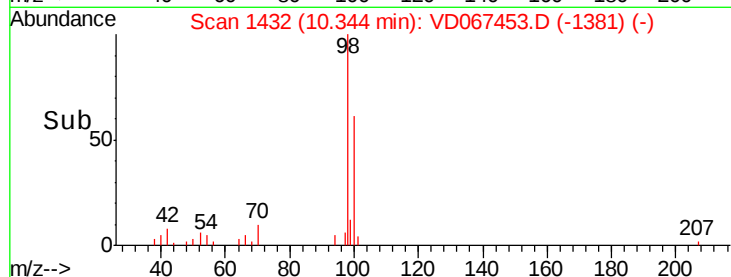
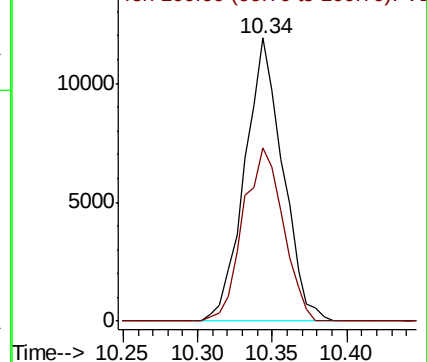
98 100

100 64.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 46.426 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

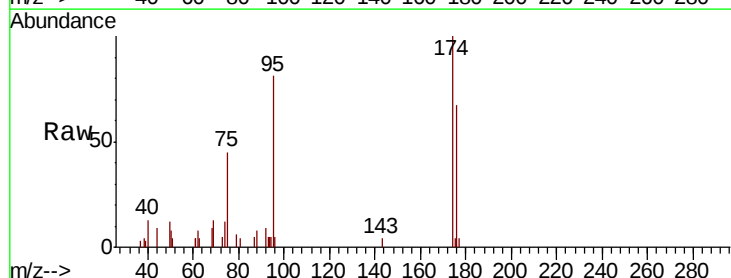
Tgt Ion: 95 Resp: 6872

Ion Ratio Lower Upper

95 100

174 106.9 0.0 175.2

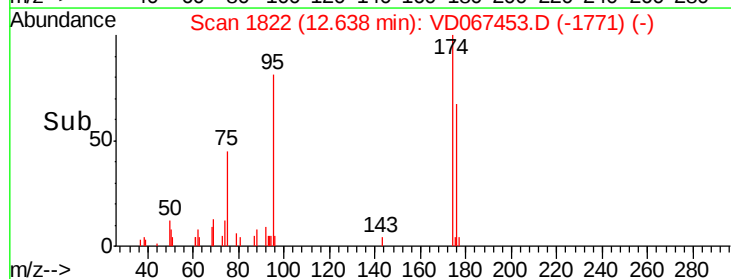
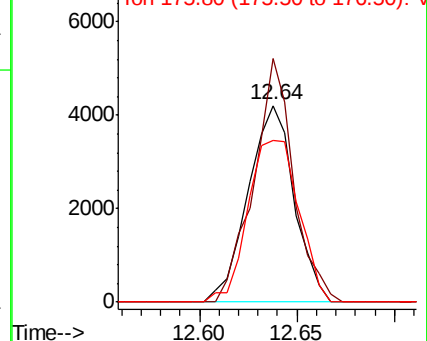
176 91.3 0.0 168.6

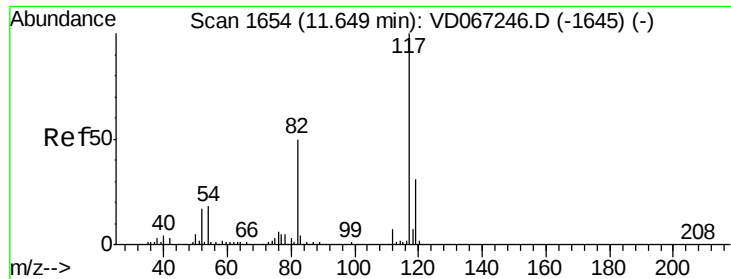


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

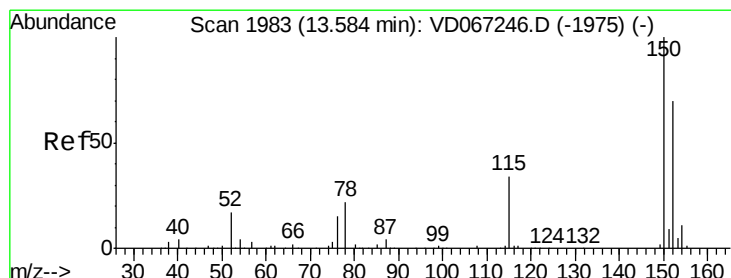
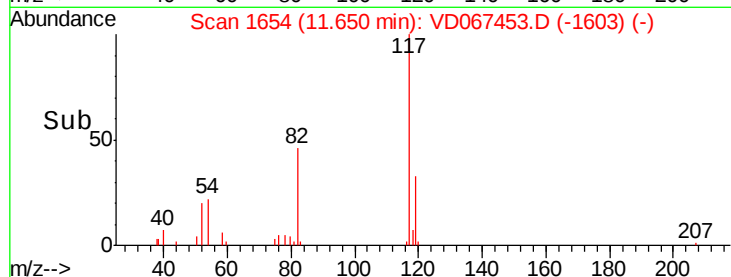
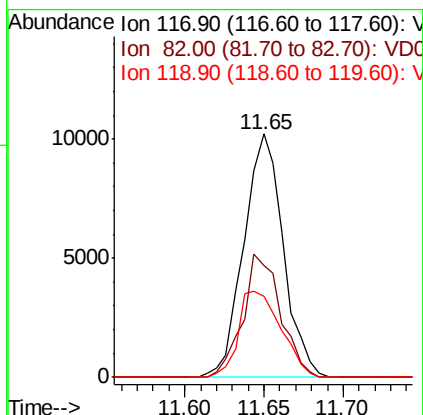
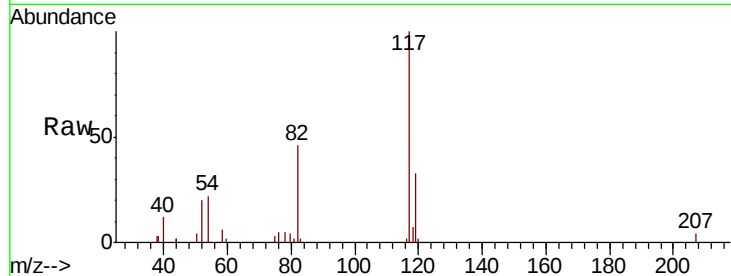




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

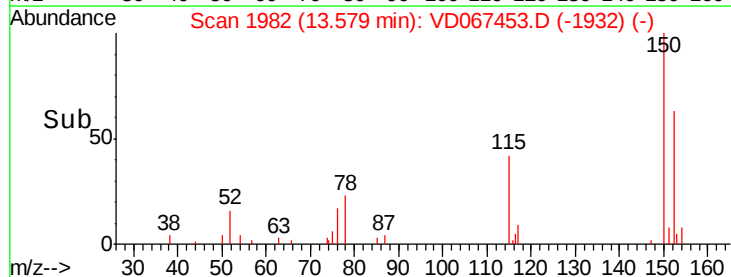
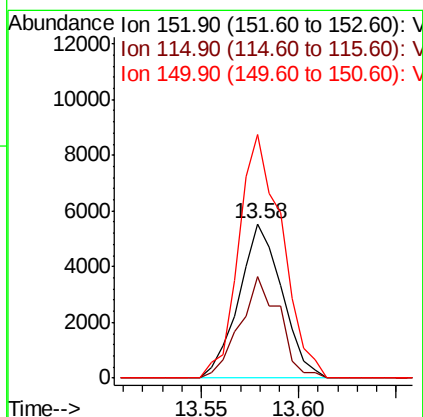
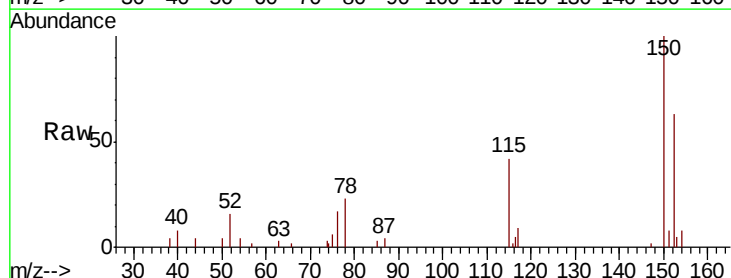
Instrument :  
MSVOA\_D  
ClientSampleId :  
B308-B309-LOC1-SO-0002

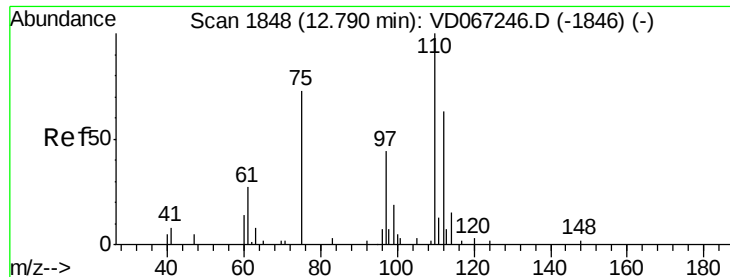
Tot Ion:117 Resp: 17718  
Ion Ratio Lower Upper  
117 100  
82 45.8 39.9 59.9  
119 33.3 24.9 37.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD067453.D  
Acq: 29 Oct 2020 15:46

Tgt Ion:152 Resp: 8456  
Ion Ratio Lower Upper  
152 100  
115 61.0 29.3 87.9  
150 158.7 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 60.862 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

Instrument :

MSVOA\_D

ClientSampleId :

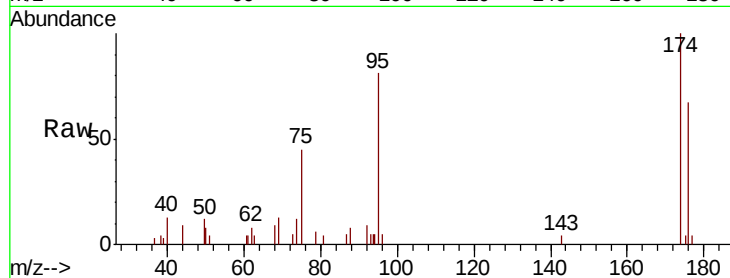
B308-B309-LOC1-SO-0002

Tot Ion: 75 Resp: 3567

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

2500

2000

1500

1000

500

0

12.64

12.65

12.66

12.67

12.68

12.69

12.70

12.71

12.72

12.73

12.74

12.75

12.76

12.77

12.78

12.79

12.80

12.81

12.82

12.83

12.84

12.85

12.86

12.87

12.88

12.89

12.90

12.91

12.92

12.93

12.94

12.95

12.96

12.97

12.98

12.99

13.00

13.01

13.02

13.03

13.04

13.05

13.06

13.07

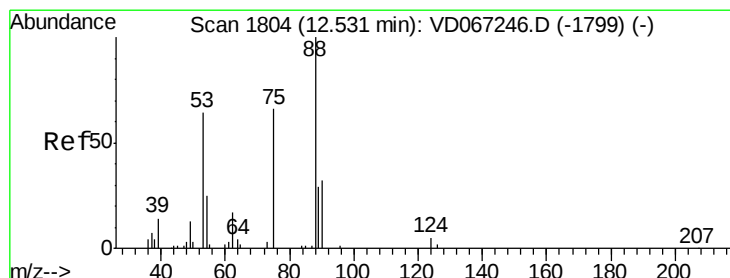
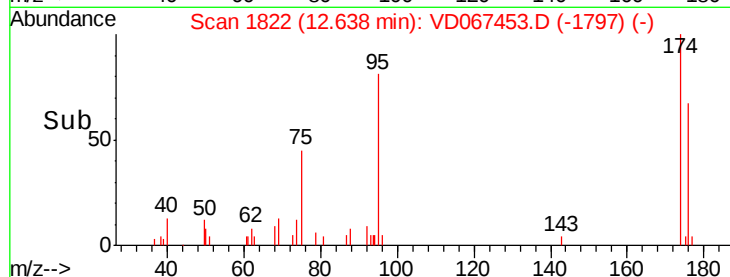
13.08

13.09

13.10

13.11

13.12



#81

trans-1,4-Dichloro-2-butene

Concen: 138.017 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067453.D

Acq: 29 Oct 2020 15:46

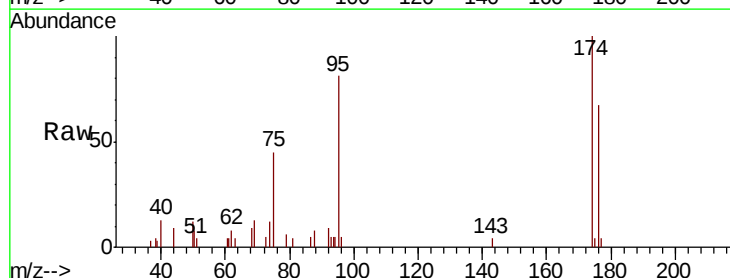
Tgt Ion: 75 Resp: 3567

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



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

3000

2500

2000

1500

1000

500

0

12.64

12.65

12.66

12.67

12.68

12.69

12.70

12.71

12.72

12.73

12.74

12.75

12.76

12.77

12.78

12.79

12.80

12.81

