

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102820\  
 Data File : VD067439.D  
 Acq On : 28 Oct 2020 17:51  
 Operator : VA/SY  
 Sample : L4530-01  
 Misc : 4.90G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RBR-54

Quant Time: Oct 29 00:46:43 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      | 7.98  | 168  | 331496   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 531175   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 523908   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 251480   | 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   | 174493   | 52.54  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.08% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 173190   | 48.99  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.98%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 623462   | 48.74  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.48%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 228061   | 51.27  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.54% |          |

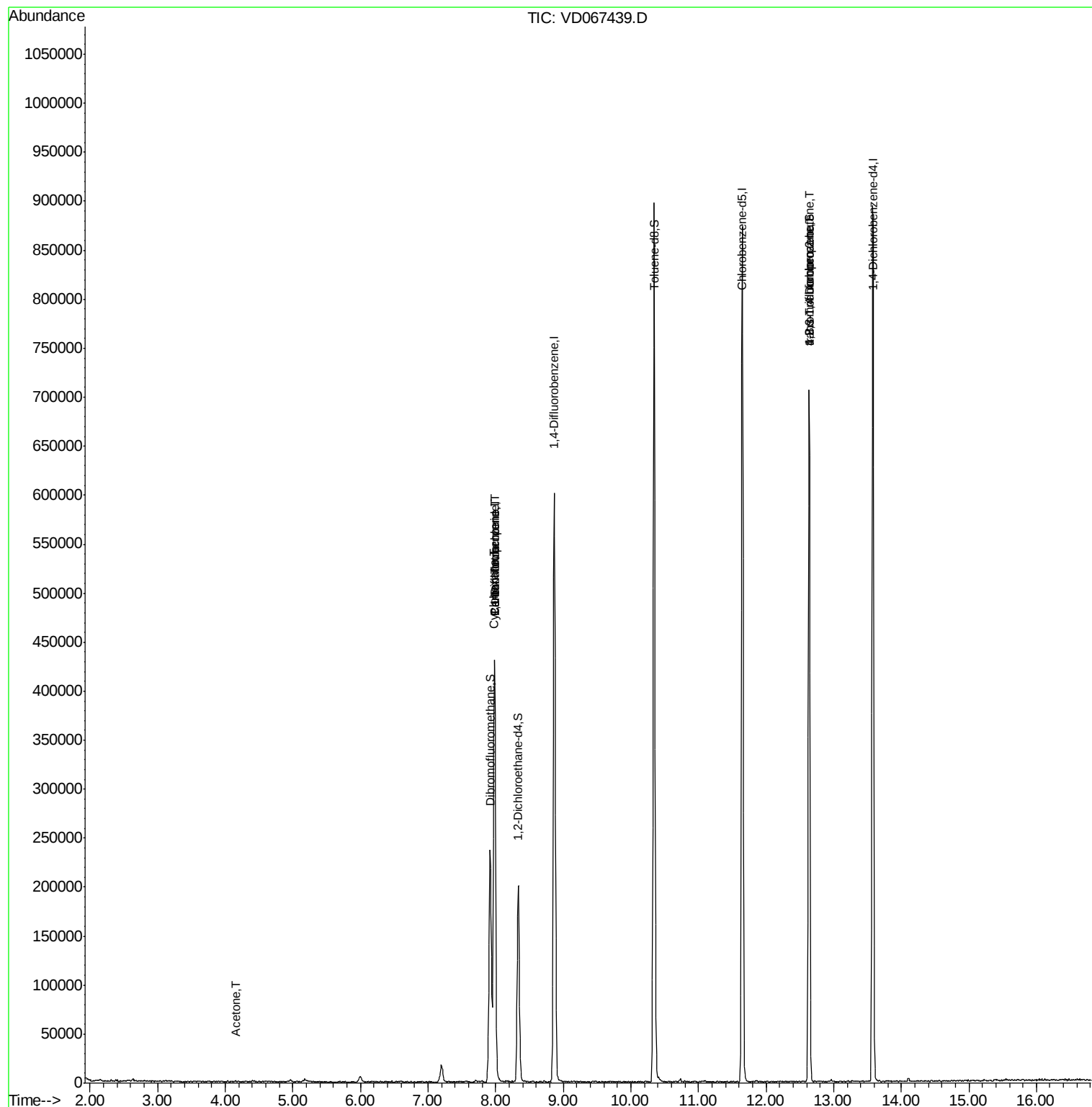
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.00  | 85   | 101      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.77  | 94   | 214      | Below Cal |        | 96     |
| 11) Tert butyl alcohol         | 5.18  | 59   | 2242     | Below Cal | #      | 81     |
| 16) Acetone                    | 4.15  | 43   | 1552     | 3.337     | ug/l   | 94     |
| 20) Methylene Chloride         | 4.96  | 84   | 1787     | Below Cal | #      | 60     |
| 31) Cyclohexane                | 7.97  | 56   | 5789     | 1.513     | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 24259    | 5.388     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 33427    | 5.809     | ug/l # | 20     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 114261   | 65.554    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 114261   | 148.658   | ug/l # | 10     |

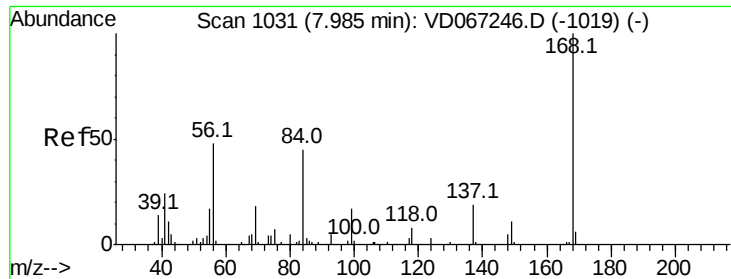
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102820\  
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Instrument :  
MSVOA\_D  
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RBR-54

Quant Time: Oct 29 00:46:43 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: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

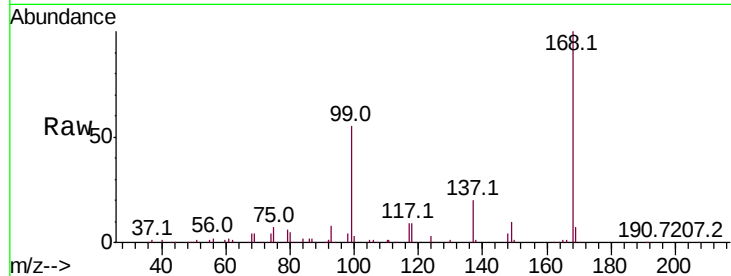
RBR-54

Tot Ion:168 Resp: 331496

Ion Ratio Lower Upper

168 100

99 54.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

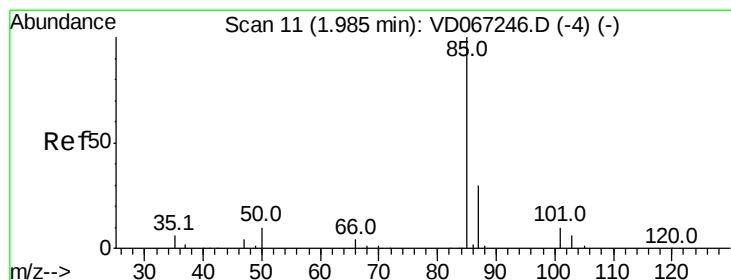
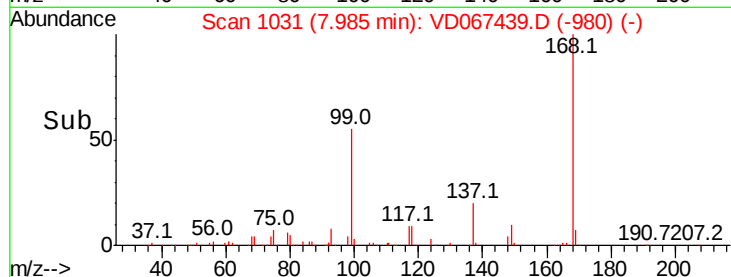
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067439.D

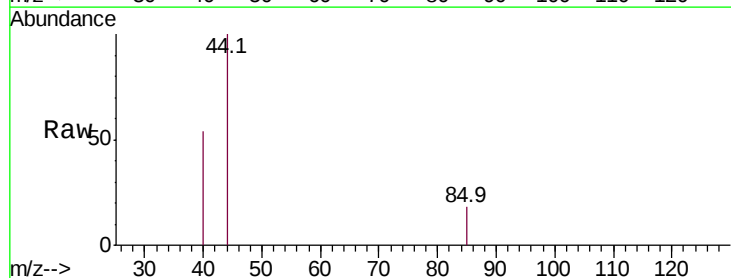
Acq: 28 Oct 2020 17:51

Tgt Ion: 85 Resp: 101

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

300

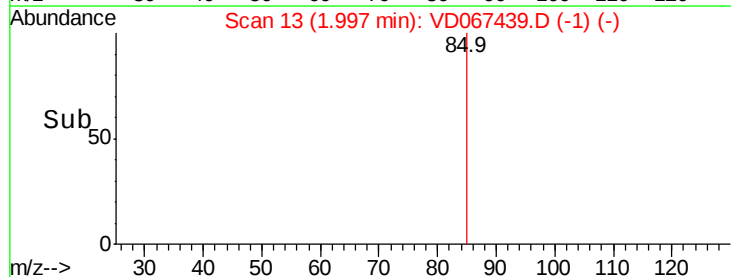
200

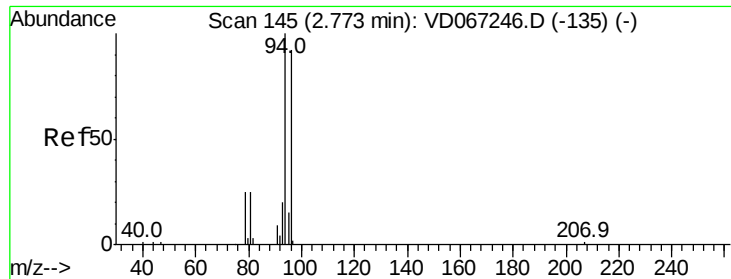
100

0

1.98 1.99 2.00 2.01

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

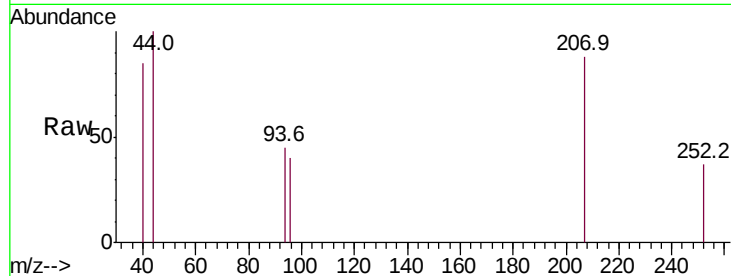
RBR-54

Tot Ion: 94 Resp: 214

Ion Ratio Lower Upper

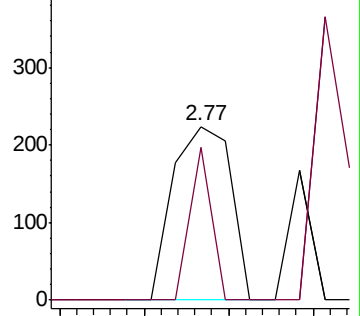
94 100

96 87.9 73.8 110.6

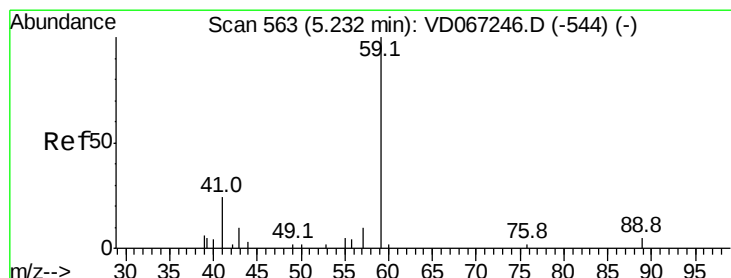
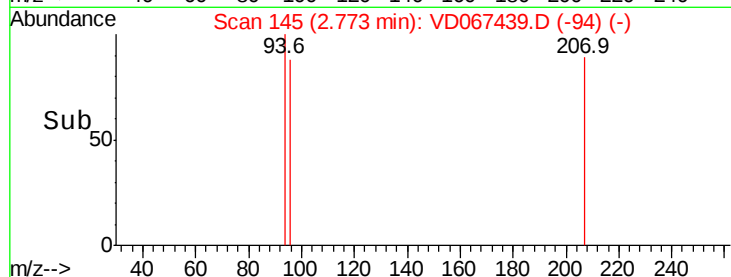


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 554

Delta R.T. -0.05 min

Lab File: VD067439.D

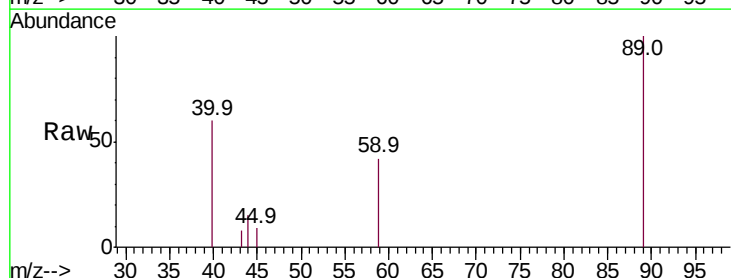
Acq: 28 Oct 2020 17:51

Tgt Ion: 59 Resp: 2242

Ion Ratio Lower Upper

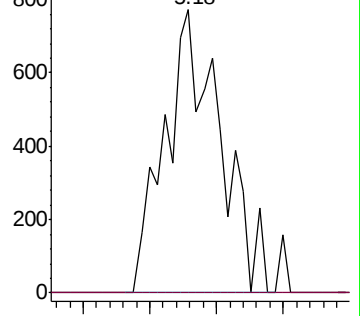
59 100

57 0.0 5.1 7.7#

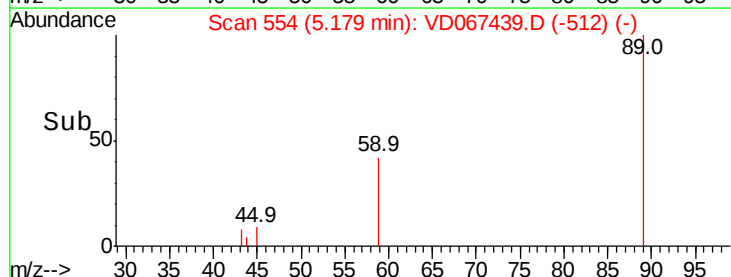


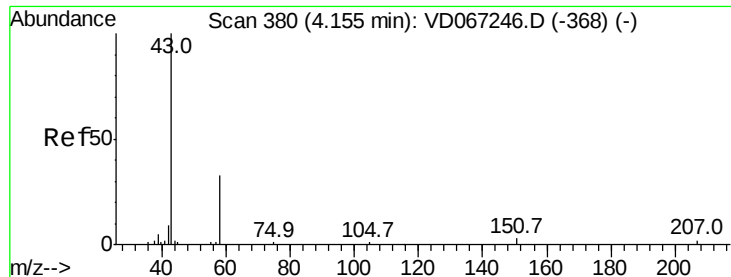
Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



Time-->





#16

Acetone

Concen: 3.337 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

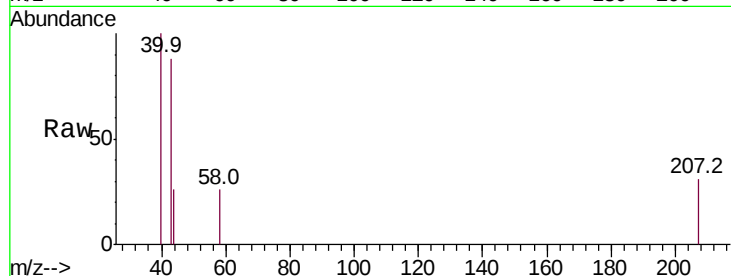
RBR-54

Tot Ion: 43 Resp: 1552

Ion Ratio Lower Upper

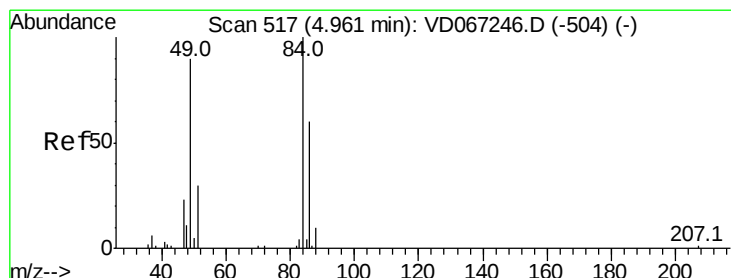
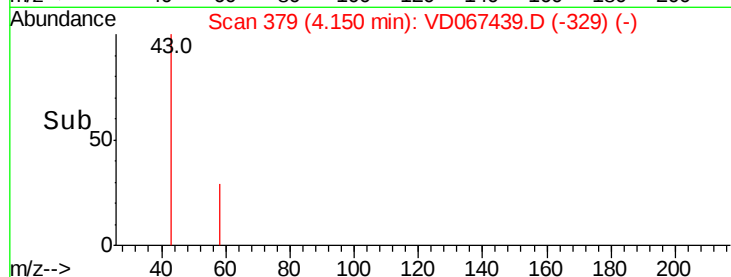
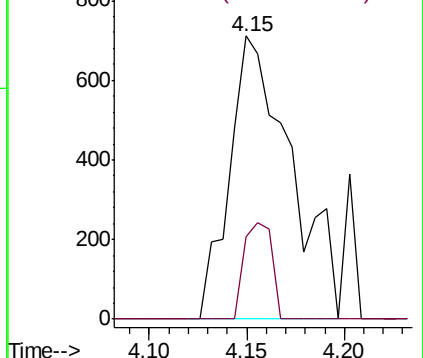
43 100

58 29.1 26.1 39.1



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# 517

Delta R.T. 0.00 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Tgt Ion: 84 Resp: 1787

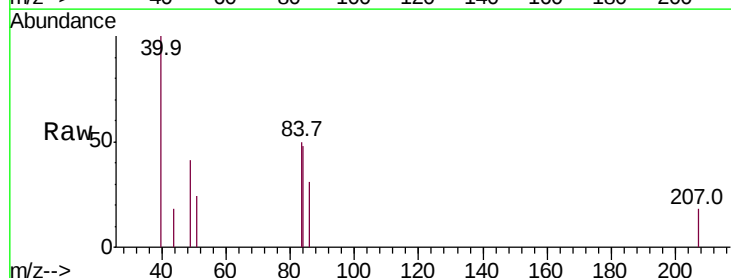
Ion Ratio Lower Upper

84 100

49 41.5 72.2 108.2#

51 24.4 23.8 35.8

86 31.2 48.2 72.4#

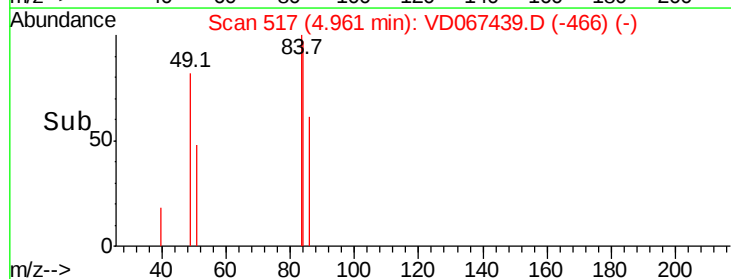
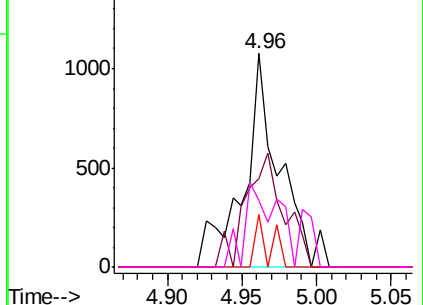


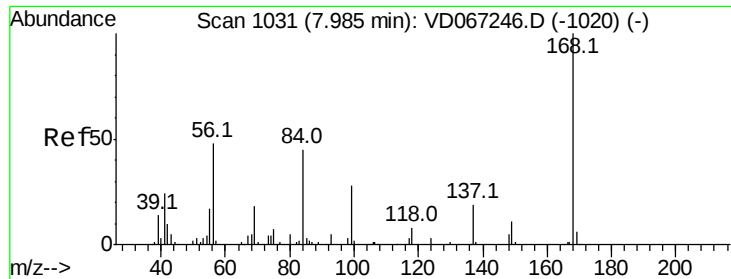
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

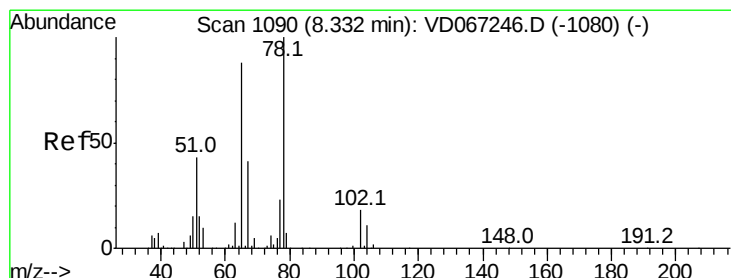
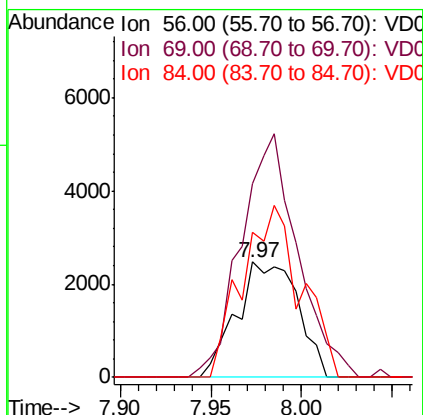
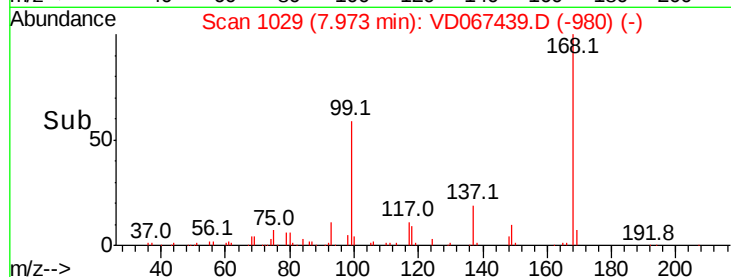
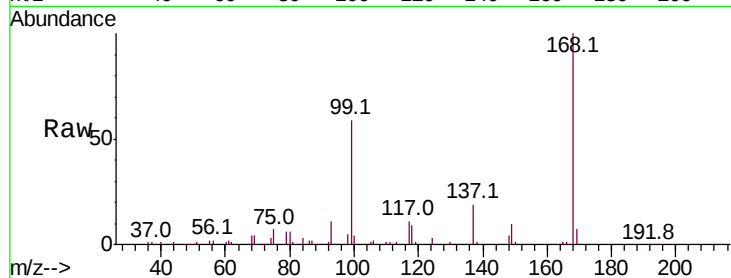




#31  
Cyclohexane  
Concen: 1.513 ug/l  
RT: 7.97 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VD067439.D  
Acq: 28 Oct 2020 17:51

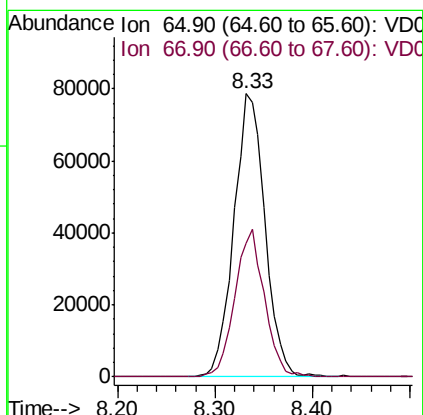
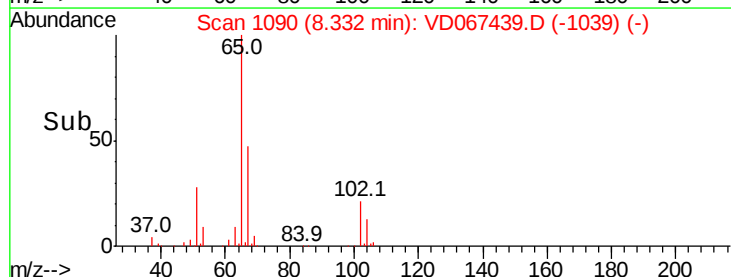
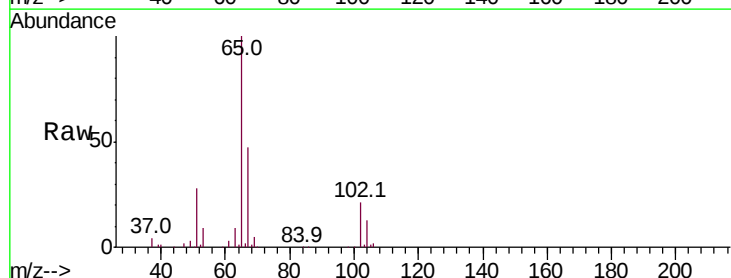
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-54

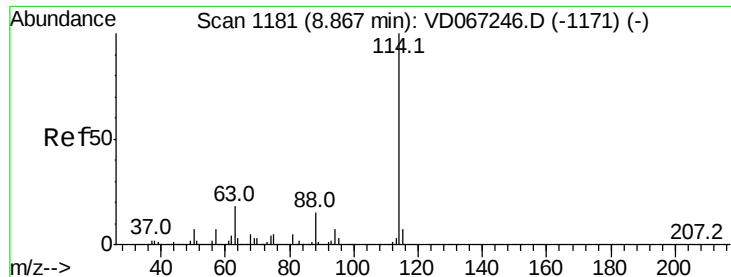
Tot Ion: 56 Resp: 5789  
Ion Ratio Lower Upper  
56 100  
69 168.3 29.8 44.6#  
84 125.9 76.6 114.8#



#33  
1,2-Dichloroethane-d4  
Concen: 52.541 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067439.D  
Acq: 28 Oct 2020 17:51

Tgt Ion: 65 Resp: 174493  
Ion Ratio Lower Upper  
65 100  
67 49.7 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: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

RBR-54

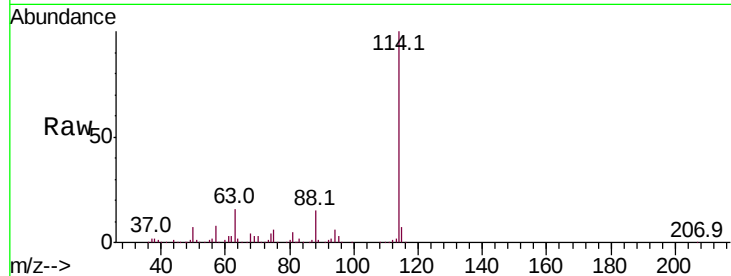
Tot Ion:114 Resp: 531175

Ion Ratio Lower Upper

114 100

63 16.5 0.0 35.0

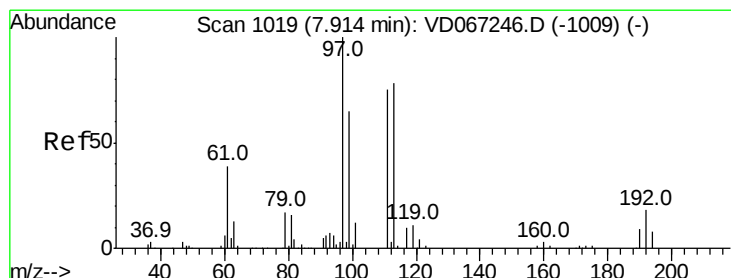
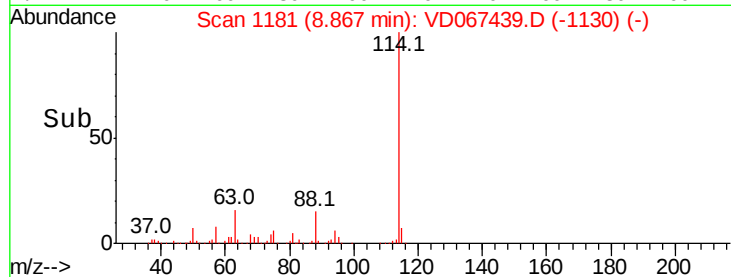
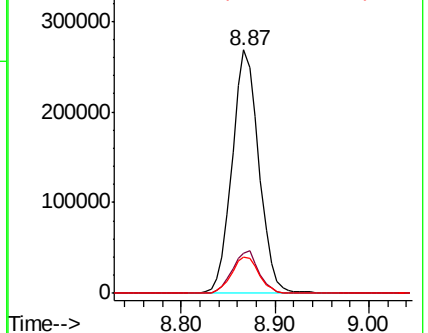
88 15.0 0.0 30.6



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: 48.993 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

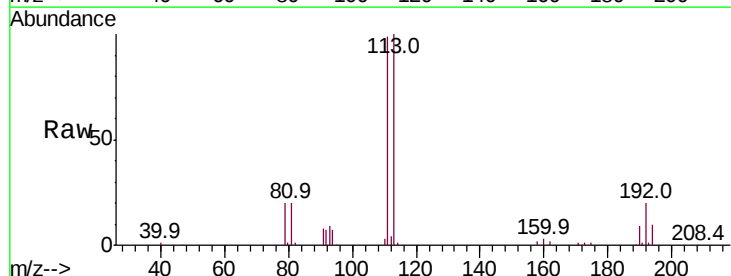
Tgt Ion:113 Resp: 173190

Ion Ratio Lower Upper

113 100

111 100.8 81.6 122.4

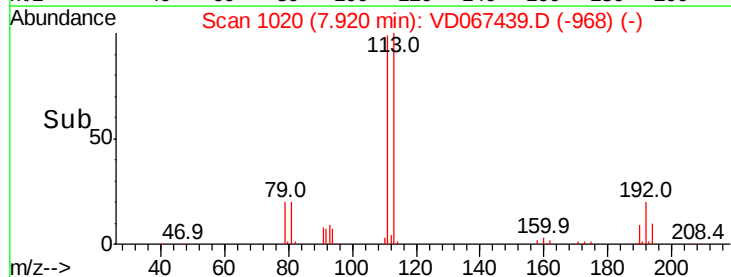
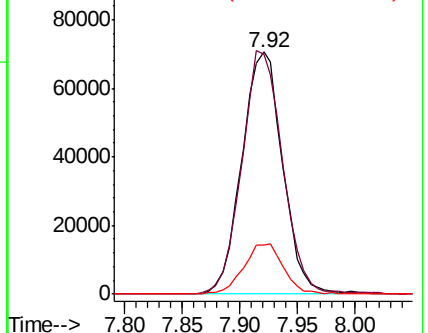
192 20.6 17.0 25.4

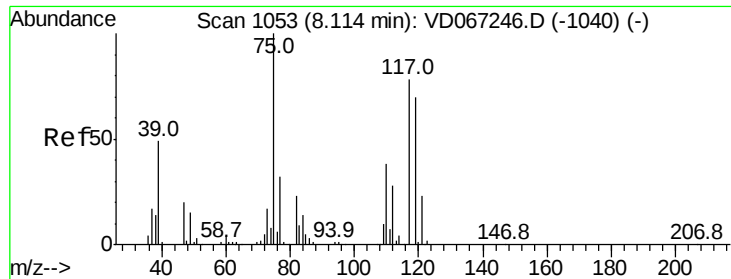


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.388 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

RBR-54

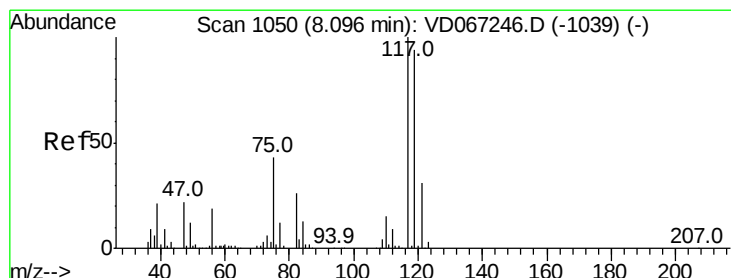
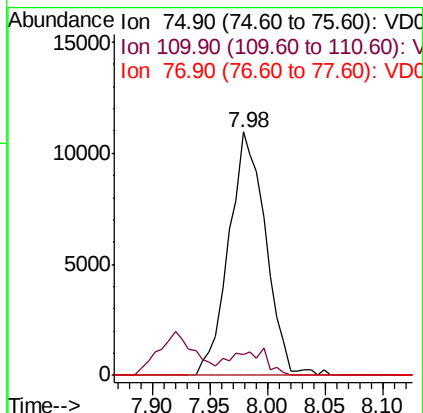
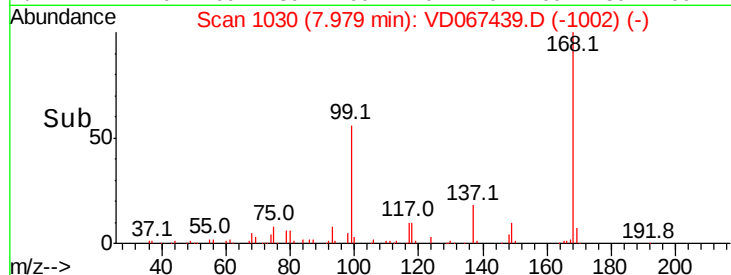
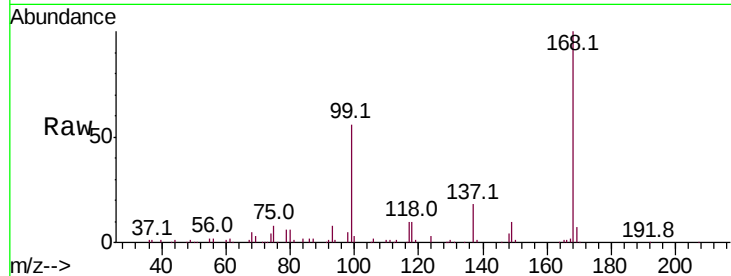
Tot Ion: 75 Resp: 24259

Ion Ratio Lower Upper

75 100

110 10.5 19.6 58.7#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.809 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

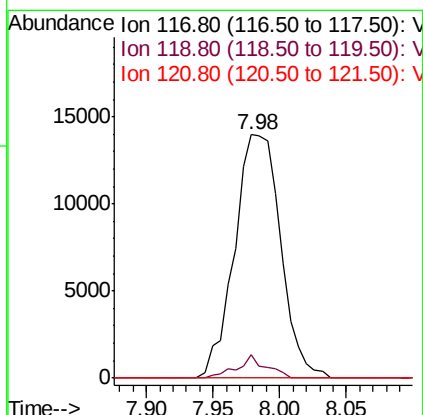
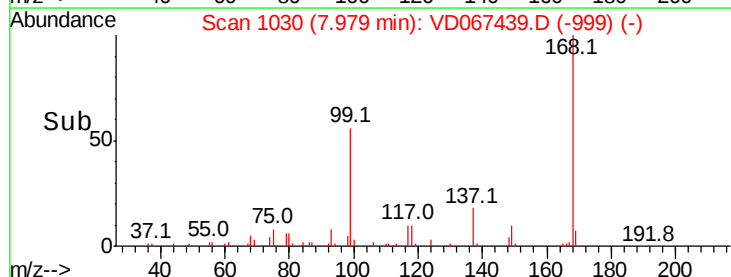
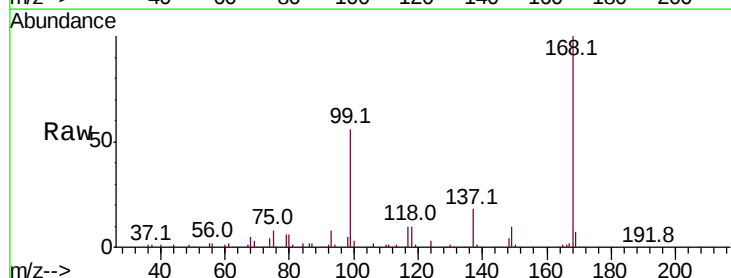
Tgt Ion: 117 Resp: 33427

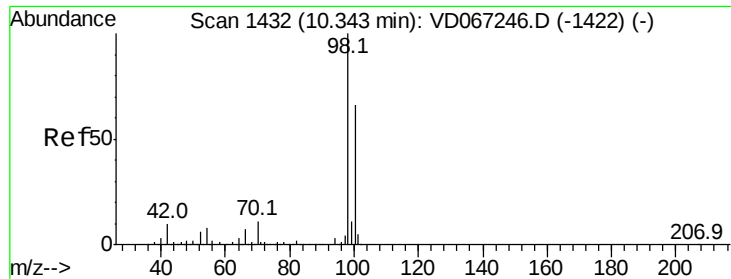
Ion Ratio Lower Upper

117 100

119 9.7 75.0 112.4#

121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 48.735 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

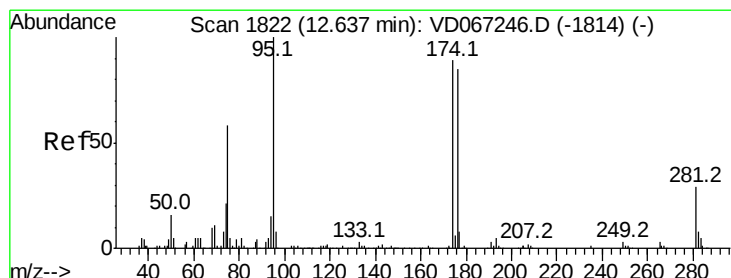
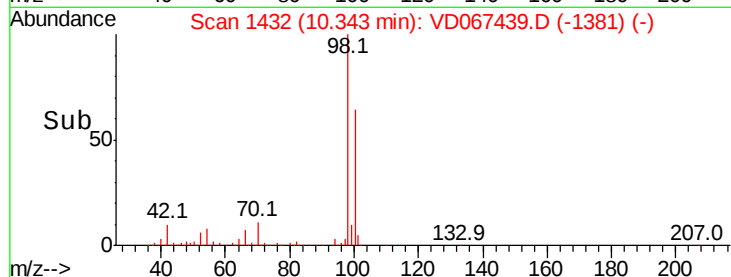
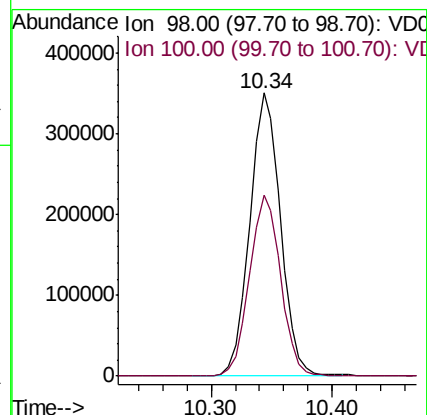
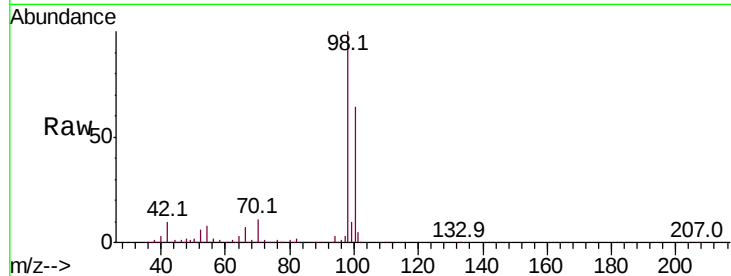
RBR-54

Tot Ion: 98 Resp: 623462

Ion Ratio Lower Upper

98 100

100 64.9 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 51.269 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

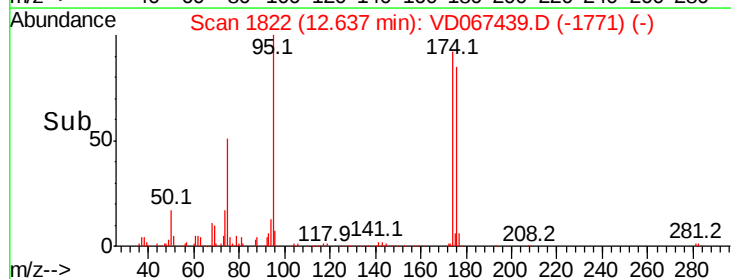
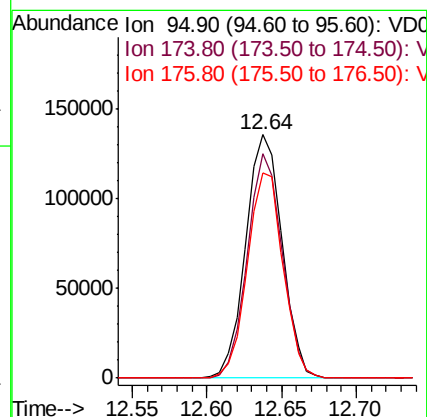
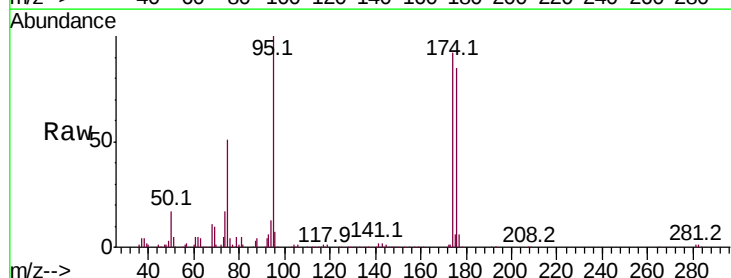
Tgt Ion: 95 Resp: 228061

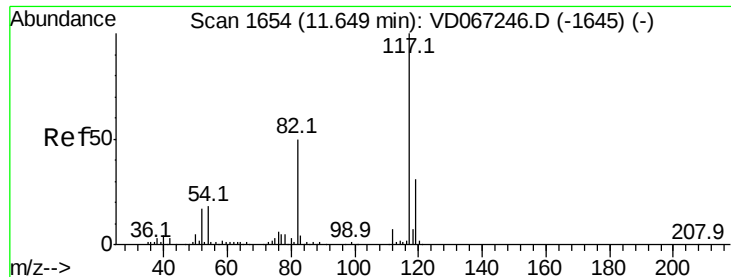
Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.2

176 82.9 0.0 168.6

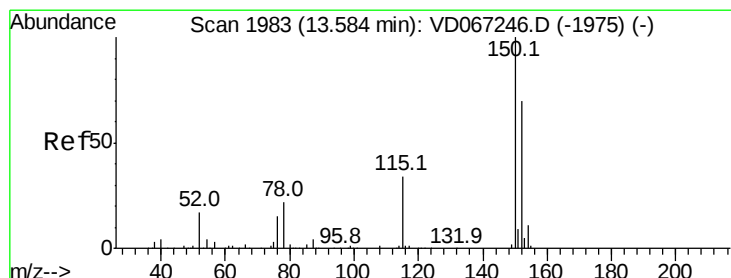
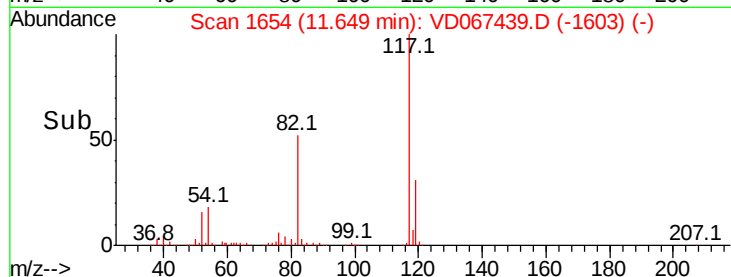
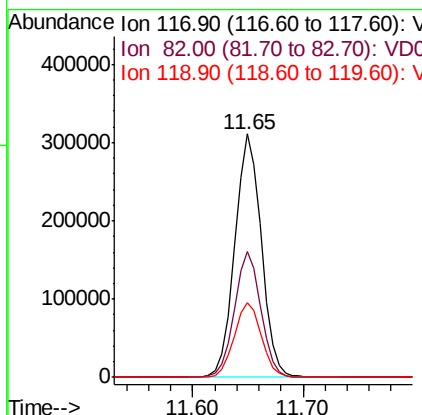
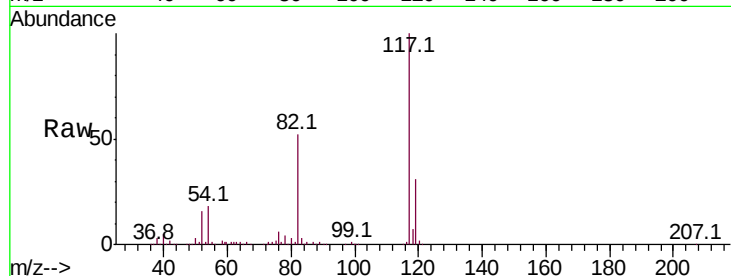




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067439.D  
Acq: 28 Oct 2020 17:51

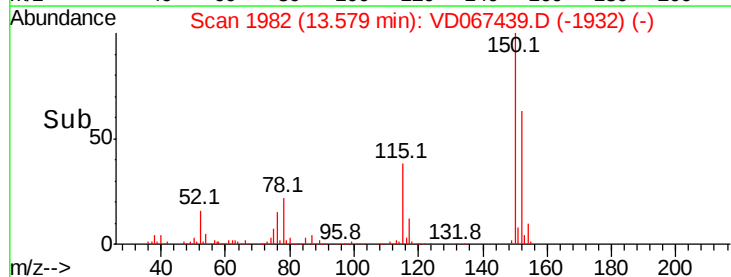
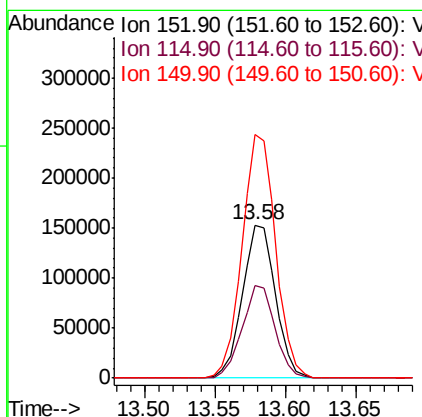
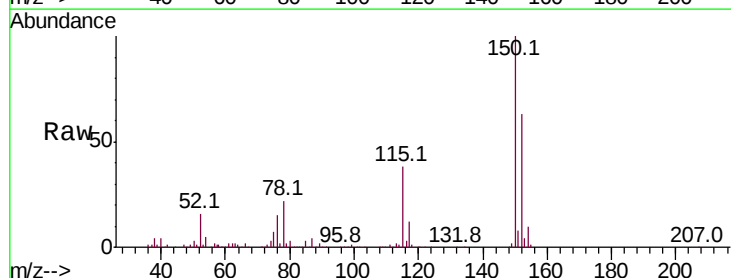
Instrument :  
MSVOA\_D  
ClientSampleId :  
RBR-54

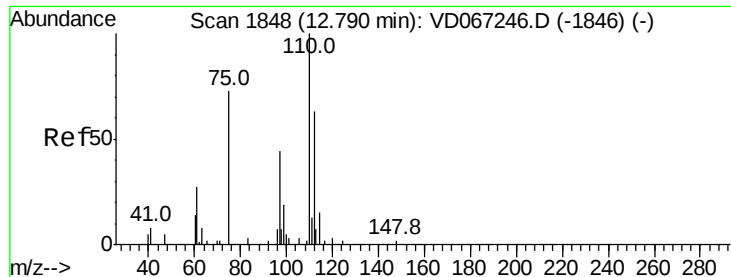
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.7  | 39.9  | 59.9  |
| 119     | 30.7  | 24.9  | 37.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD067439.D  
Acq: 28 Oct 2020 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.0  | 29.3  | 87.9  |
| 150     | 160.2 | 0.0   | 339.0 |





#76

1,2,3-Trichloropropane

Concen: 65.554 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Instrument :

MSVOA\_D

ClientSampleId :

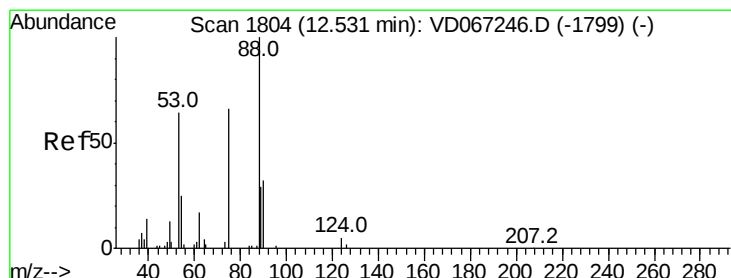
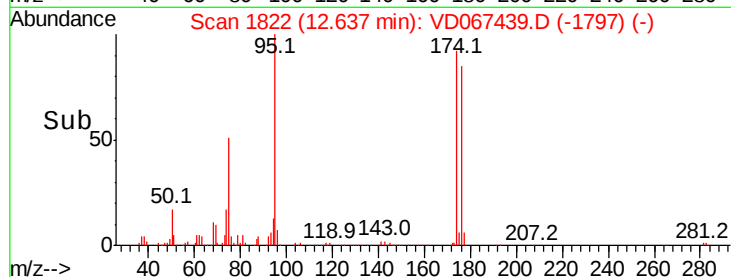
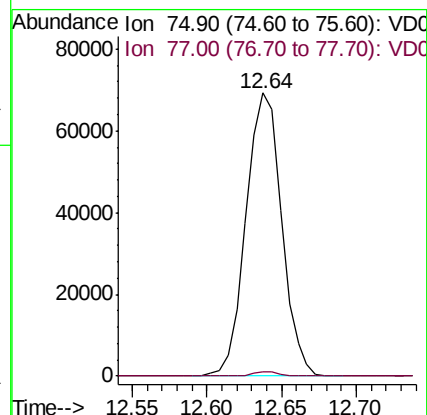
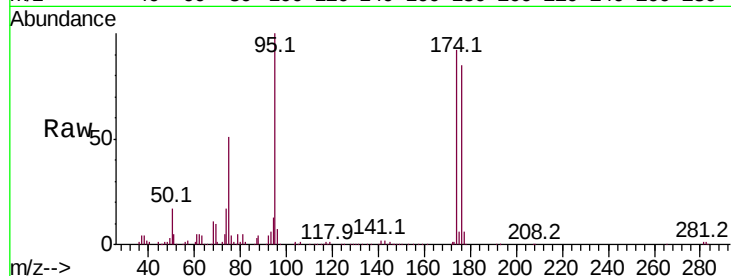
RBR-54

Tot Ion: 75 Resp: 114261

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 148.658 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067439.D

Acq: 28 Oct 2020 17:51

Tgt Ion: 75 Resp: 114261

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 39.9 59.9#

