

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100620\  
 Data File : VD067130.D  
 Acq On : 07 Oct 2020 02:46  
 Operator : VA/SY  
 Sample : L4273-03  
 Misc : 5.24G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-2

Quant Time: Oct 07 03:53:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

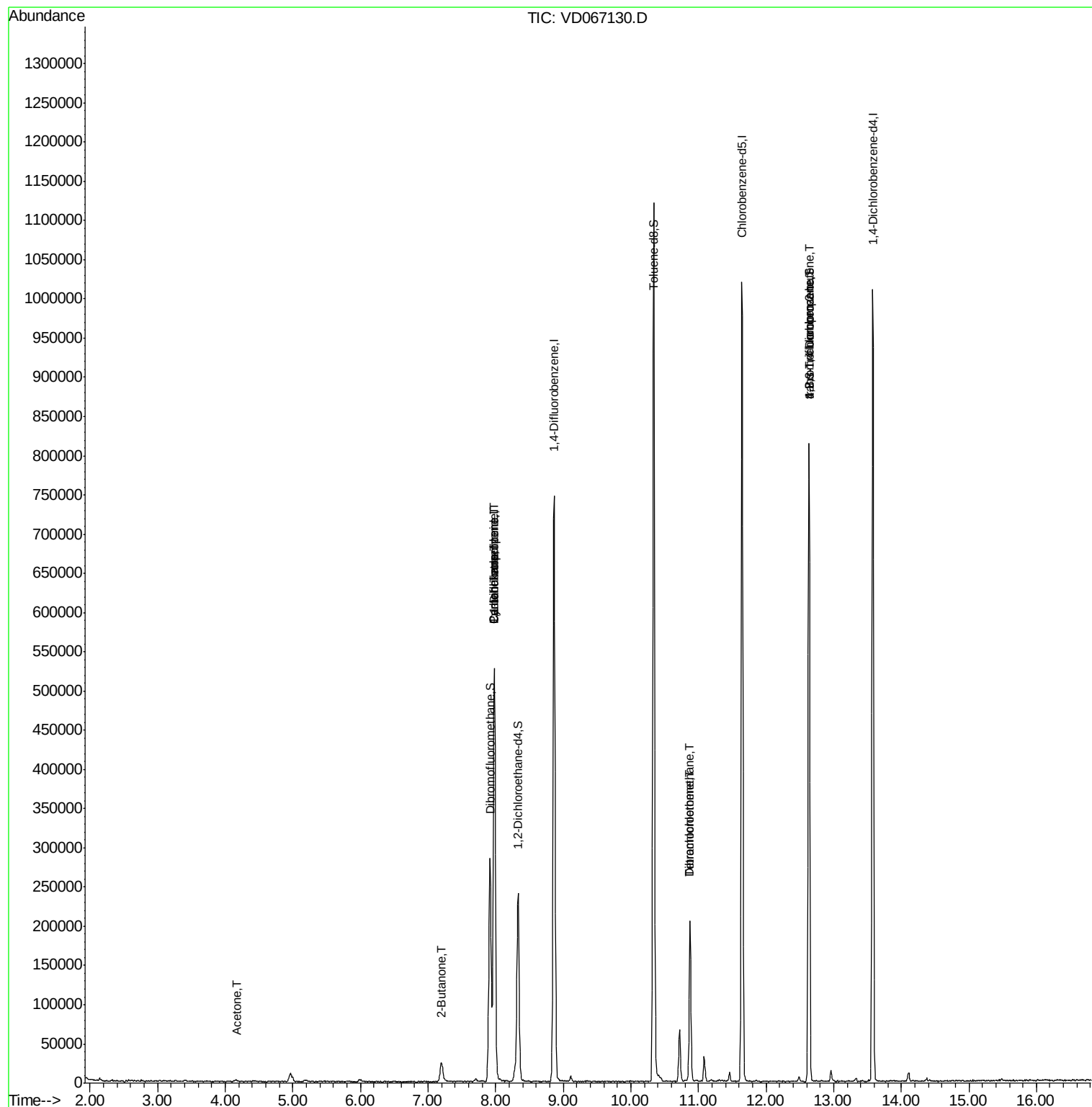
| Internal Standards             | R.T.  | QIon | Response | Conc         | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 400310   | 50.00        | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 664896   | 50.00        | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.64 | 117  | 612404   | 50.00        | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 282496   | 50.00        | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |              |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 199853   | 51.83        | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =            | 103.66% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 210737   | 48.41        | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =            | 96.82%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 763946   | 48.16        | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =            | 96.32%  |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 257488   | 47.82        | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =            | 95.64%  |          |
| Target Compounds               |       |      |          |              |         |          |
|                                |       |      |          |              | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 454      | Below Cal    | #       | 40       |
| 5) Bromomethane                | 2.78  | 94   | 398      | Below Cal    | #       | 3        |
| 11) Tert butyl alcohol         | 5.23  | 59   | 174      | Below Cal    | #       | 72       |
| 16) Acetone                    | 4.17  | 43   | 3713     | 6.308 ug/l   | #       | 73       |
| 20) Methylene Chloride         | 4.96  | 84   | 5666     | Below Cal    | #       | 93       |
| 25) 2-Butanone                 | 7.20  | 43   | 1006     | 1.206 ug/l   | #       | 46       |
| 26) 2,2-Dichloropropane        | 7.19  | 77   | 1342     | Below Cal    | #       | 64       |
| 31) Cyclohexane                | 7.98  | 56   | 8764     | 1.513 ug/l   | #       | 43       |
| 36) 1,1-Dichloropropene        | 7.97  | 75   | 29736    | 4.798 ug/l   | #       | 49       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 38945    | 5.808 ug/l   | #       | 15       |
| 60) Dibromochloromethane       | 10.87 | 129  | 43675    | 10.139 ug/l  | #       | 12       |
| 64) Tetrachloroethene          | 10.88 | 164  | 48047    | 10.792 ug/l  |         | 94       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 127103   | 51.655 ug/l  | #       | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 127103   | 128.781 ug/l | #       | 12       |

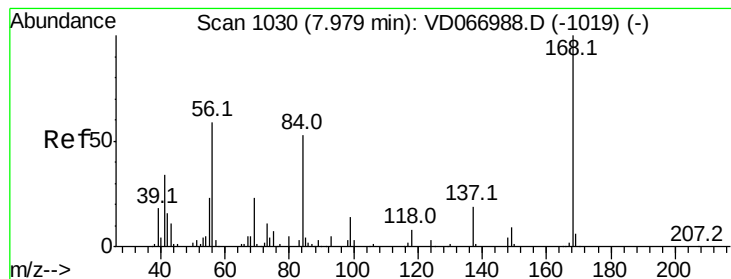
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100620\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2

Quant Time: Oct 07 03:53:07 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampleID :

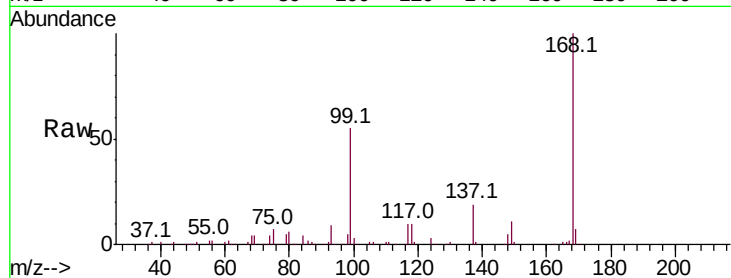
SB-2

Tot Ion:168 Resp: 400310

Ion Ratio Lower Upper

168 100

99 55.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

100000

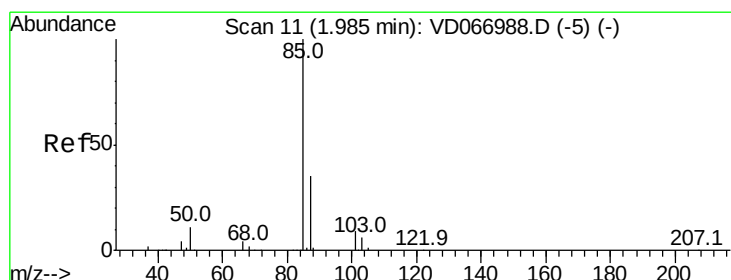
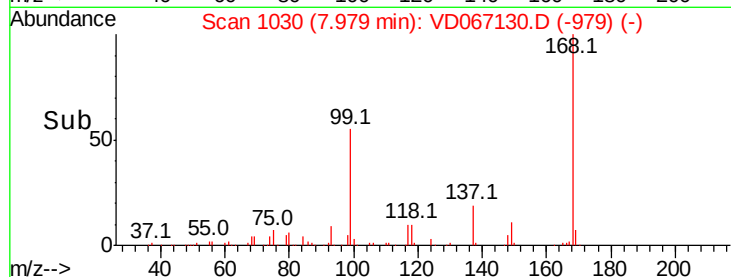
50000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067130.D

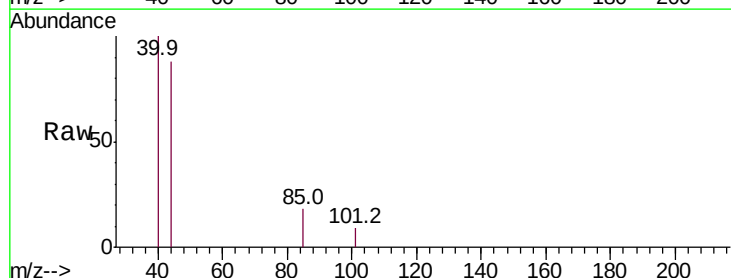
Acq: 07 Oct 2020 02:46

Tgt Ion: 85 Resp: 454

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

400

300

200

100

0

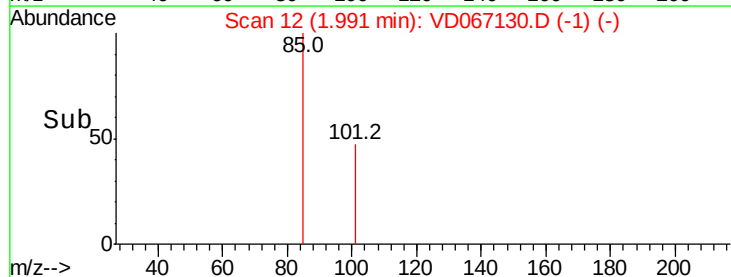
1.96

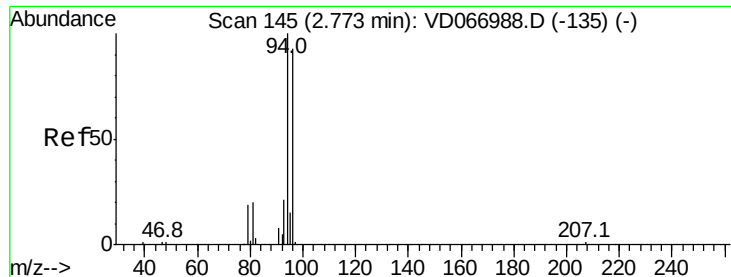
1.98

2.00

2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampleId :

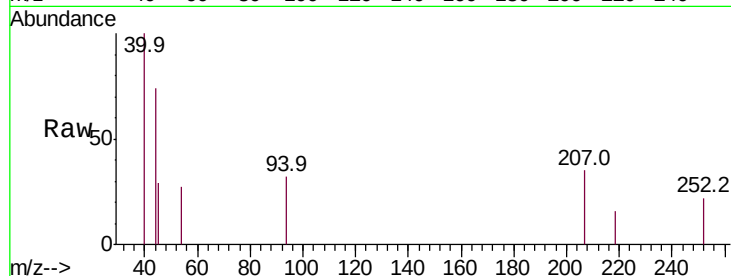
SB-2

Tot Ion: 94 Resp: 398

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

400

300

200

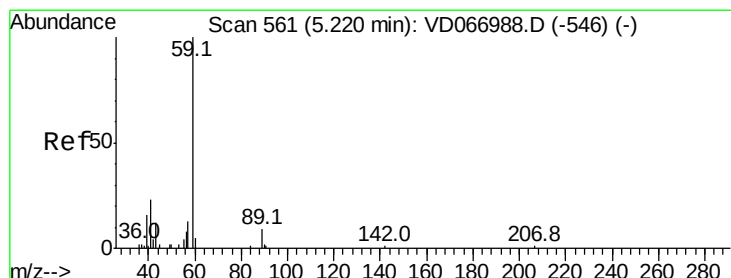
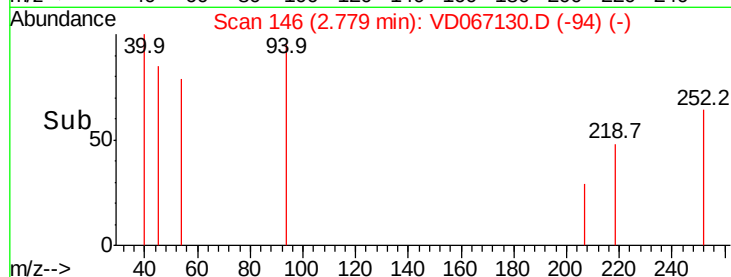
100

0

2.76 2.78 2.80 2.82

2.78

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD067130.D

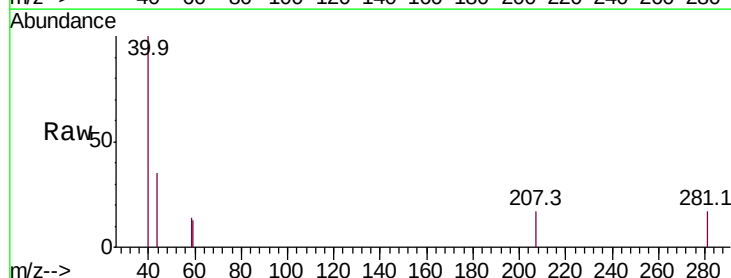
Acq: 07 Oct 2020 02:46

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

500

400

300

200

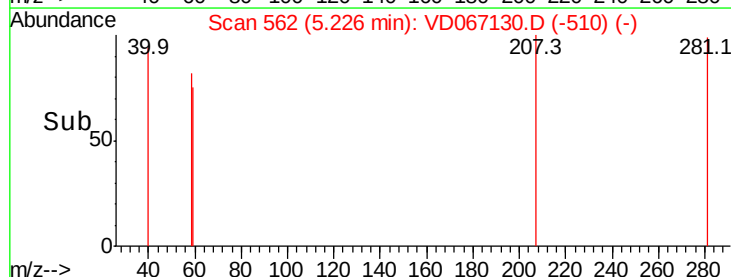
100

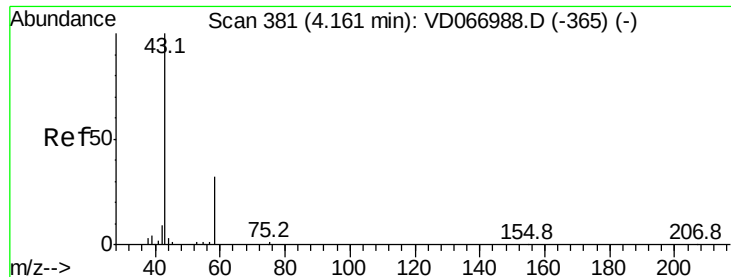
0

5.21 5.22 5.23 5.24 5.25

5.23

Time-->





#16

Acetone

Concen: 6.308 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampleId :

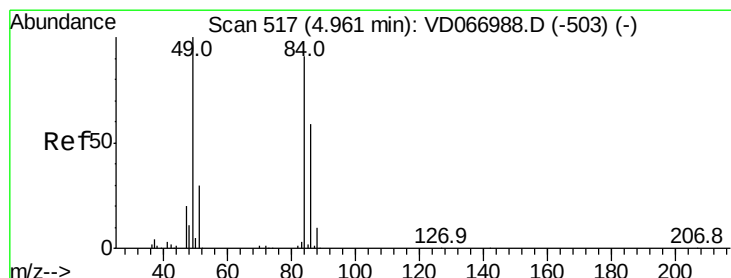
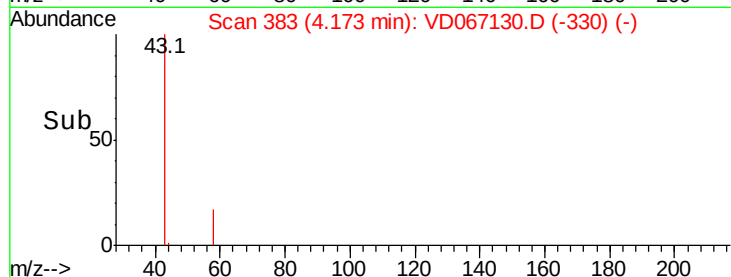
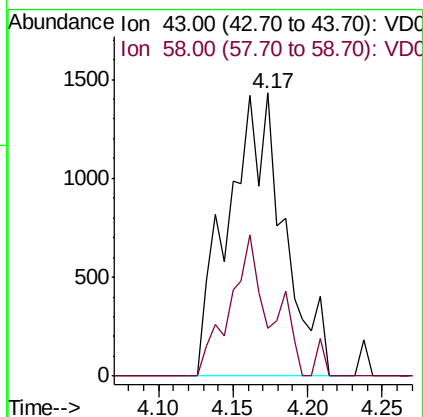
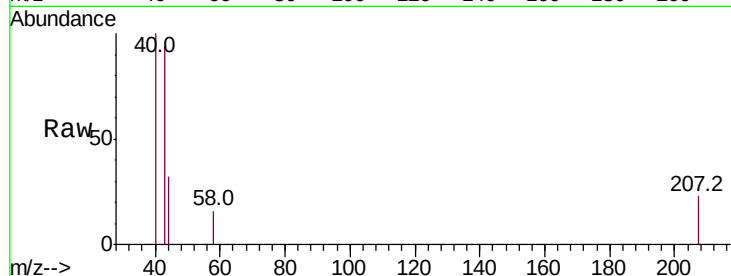
SB-2

Tot Ion: 43 Resp: 3713

Ion Ratio Lower Upper

43 100

58 17.1 25.9 38.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Tgt Ion: 84 Resp: 5666

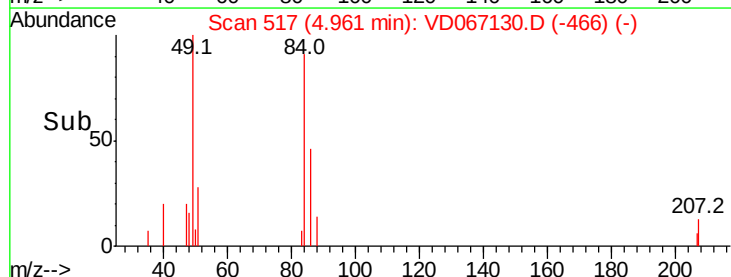
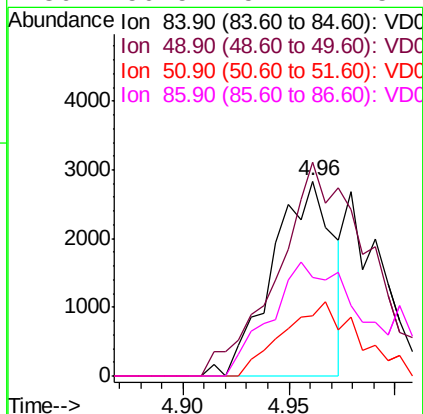
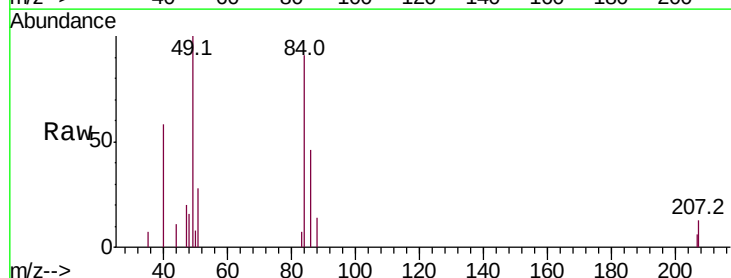
Ion Ratio Lower Upper

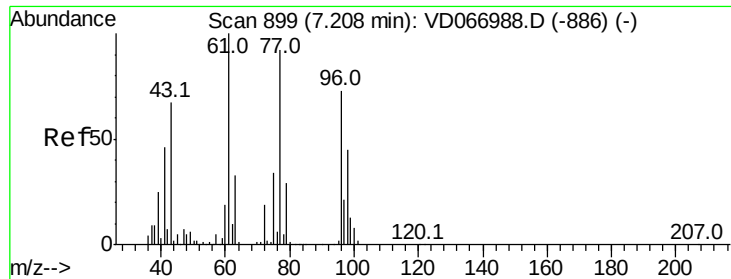
84 100

49 109.5 88.2 132.2

51 30.5 26.6 39.8

86 50.5 52.1 78.1#





#25

2-Butanone

Concen: 1.206 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampled :

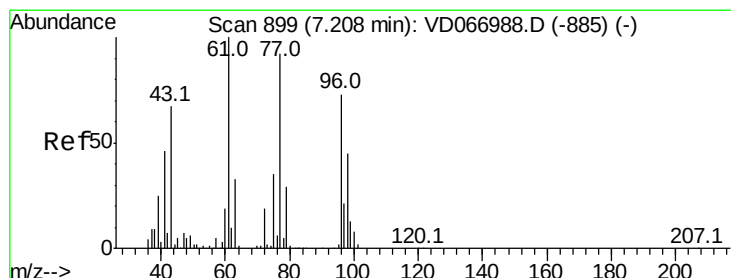
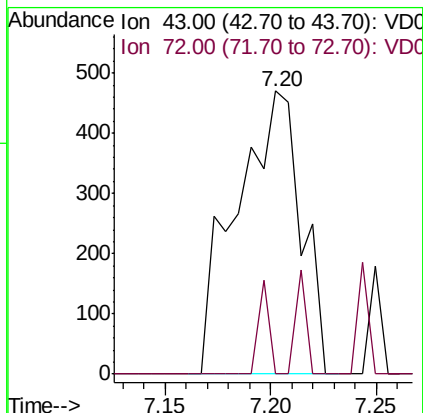
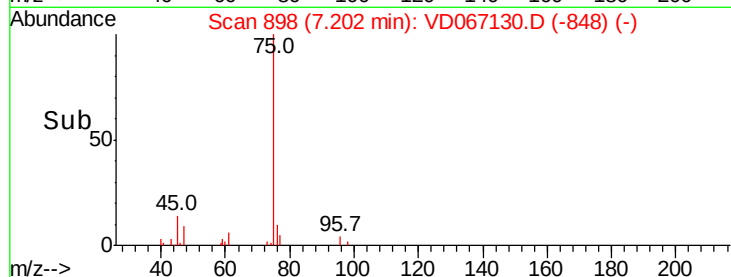
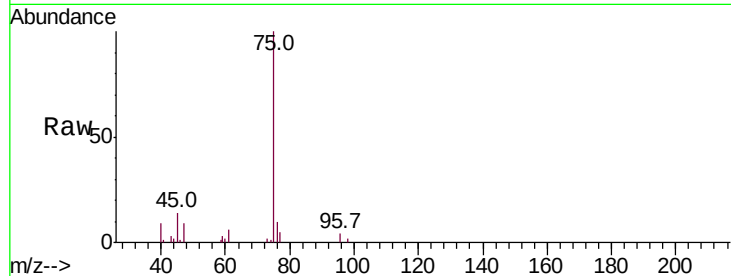
SB-2

Tot Ion: 43 Resp: 1006

Ion Ratio Lower Upper

43 100

72 0.0 22.8 34.2#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD067130.D

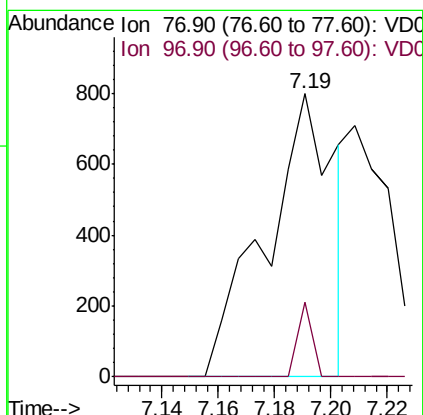
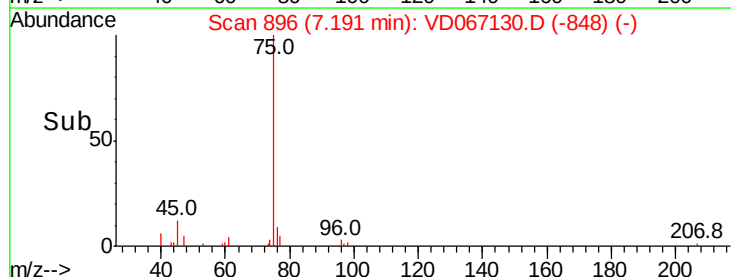
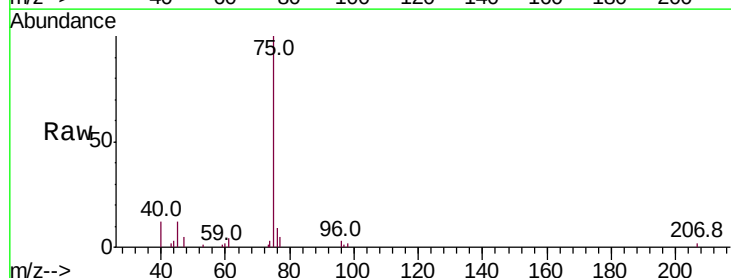
Acq: 07 Oct 2020 02:46

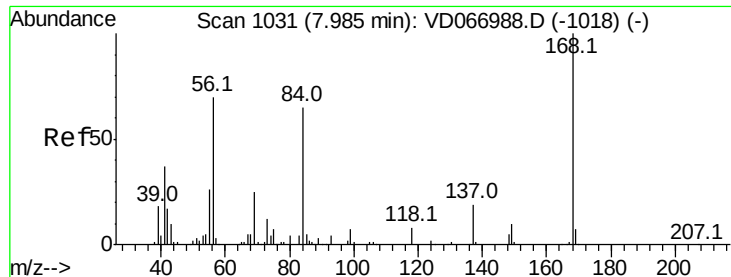
Tgt Ion: 77 Resp: 1342

Ion Ratio Lower Upper

77 100

97 5.6 11.4 34.2#

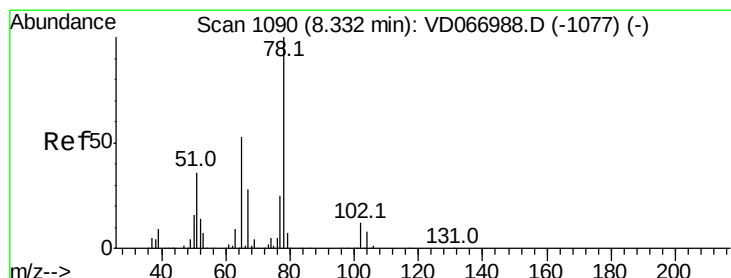
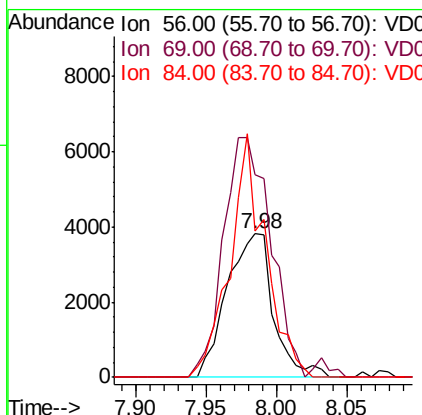
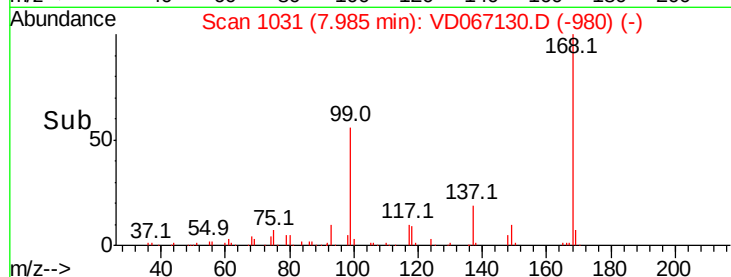
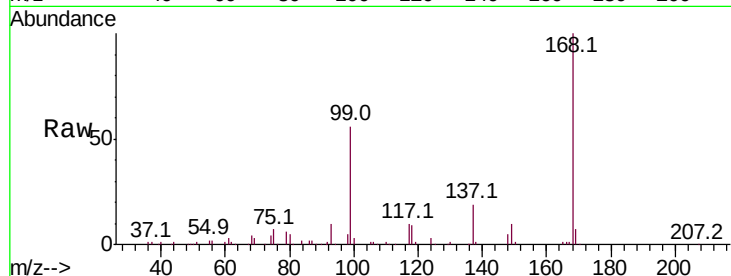




#31  
Cyclohexane  
Concen: 1.513 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

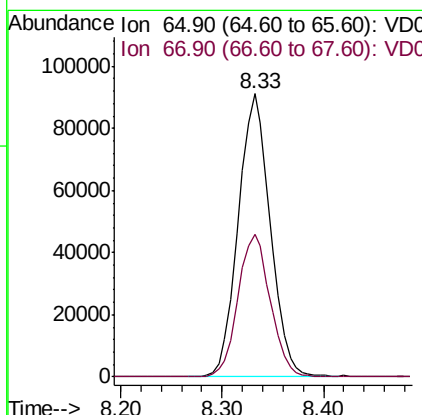
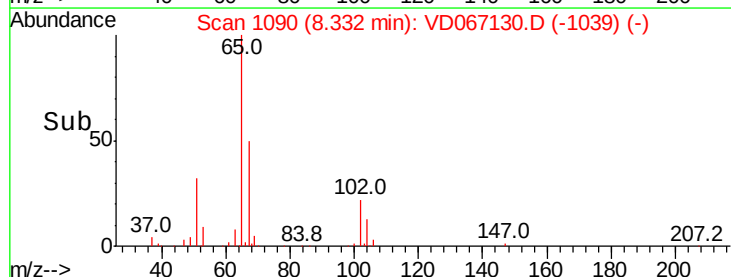
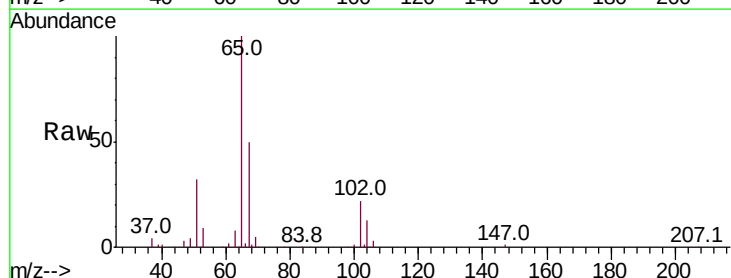
Instrument :  
MSVOA\_D  
ClientSampled :  
SB-2

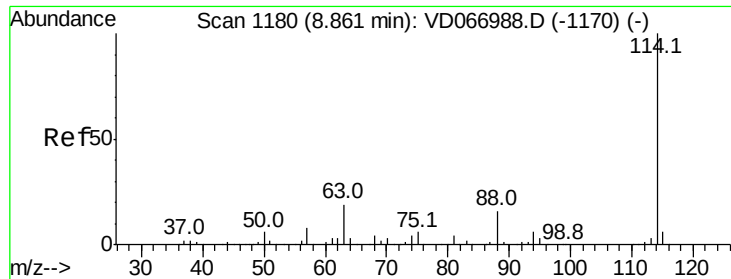
Tot Ion: 56 Resp: 8764  
Ion Ratio Lower Upper  
56 100  
69 141.5 29.0 43.6#  
84 101.9 74.2 111.2



#33  
1,2-Dichloroethane-d4  
Concen: 51.832 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

Tgt Ion: 65 Resp: 199853  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 106.8

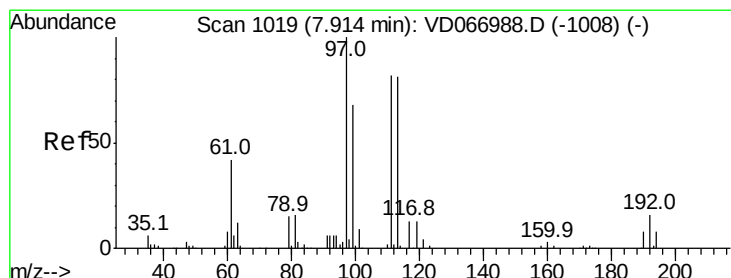
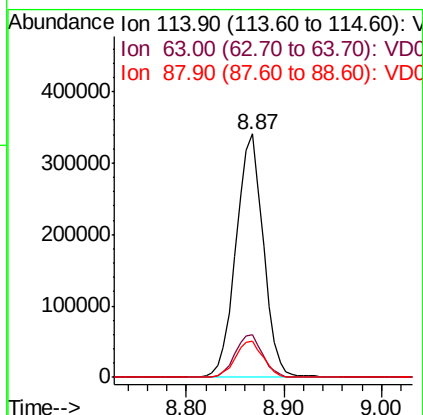
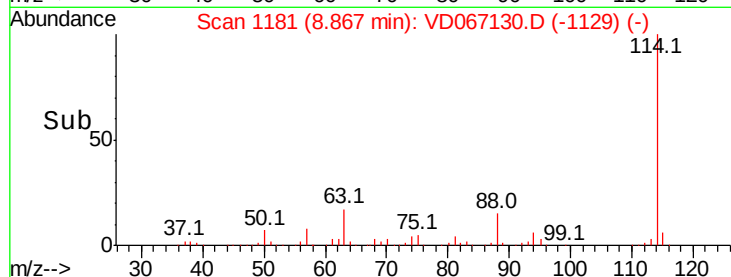
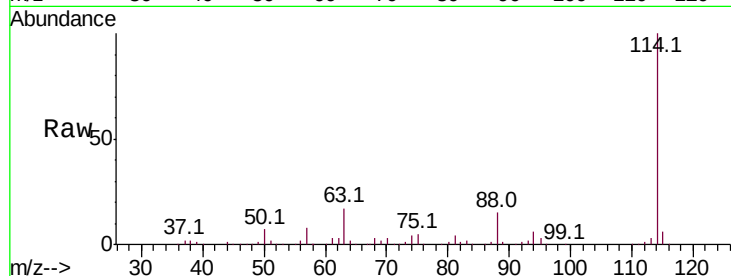




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.01 min  
 Lab File: VD067130.D  
 Acq: 07 Oct 2020 02:46

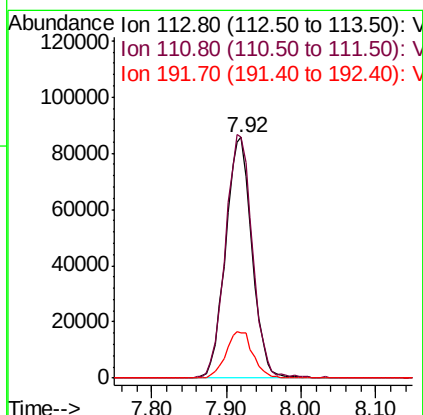
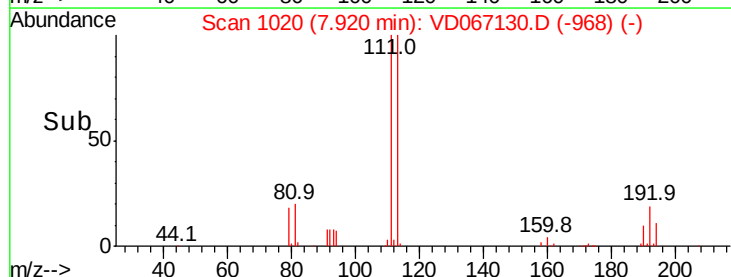
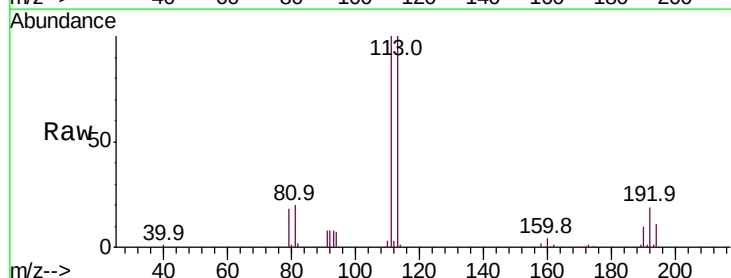
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 SB-2

Tot Ion:114 Resp: 664896  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 38.4  
 88 15.1 0.0 31.2

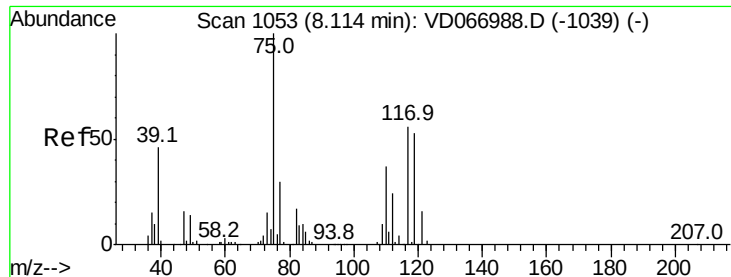


#35  
 Dibromofluoromethane  
 Concen: 48.412 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067130.D  
 Acq: 07 Oct 2020 02:46

Tgt Ion:113 Resp: 210737  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 83.0 124.4  
 192 19.6 15.5 23.3







#36

1,1-Dichloropropene

Concen: 4.798 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampled :

SB-2

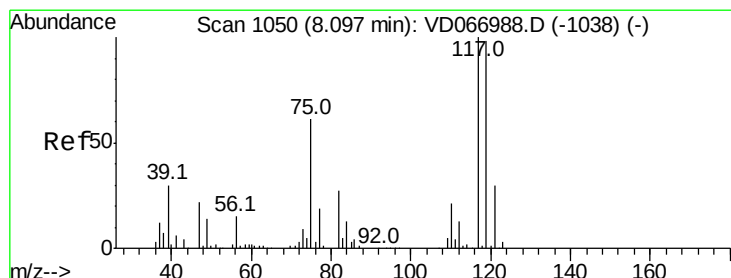
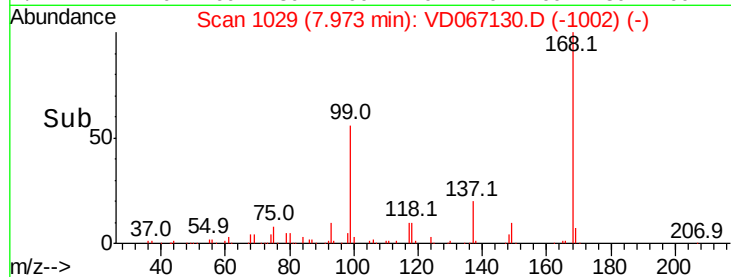
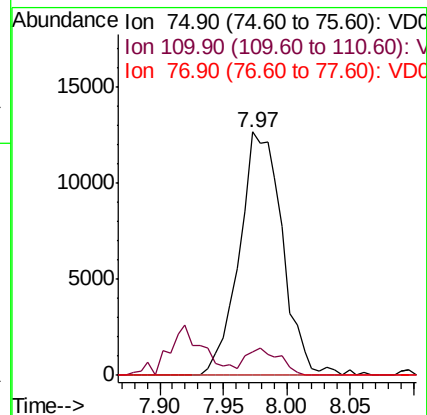
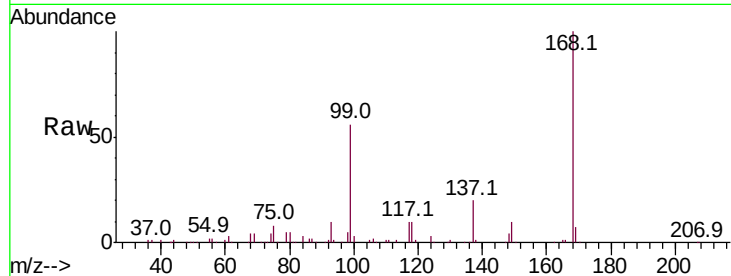
Tot Ion: 75 Resp: 29736

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.808 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

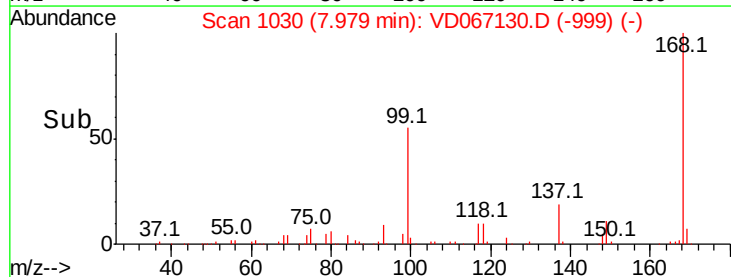
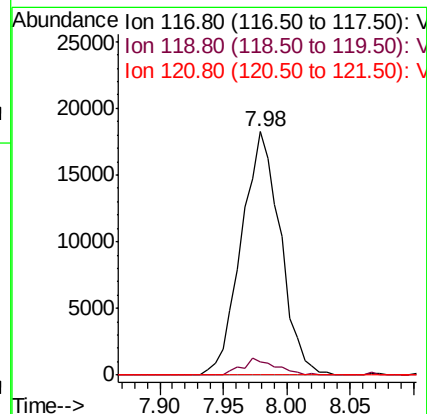
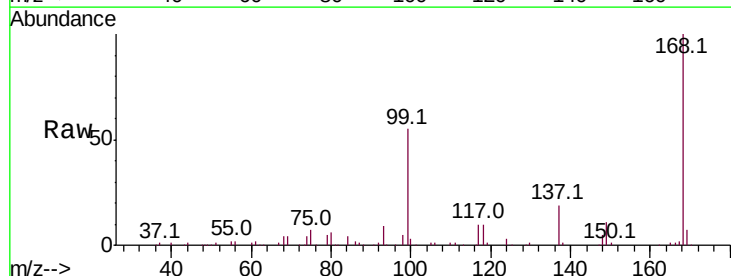
Tgt Ion: 117 Resp: 38945

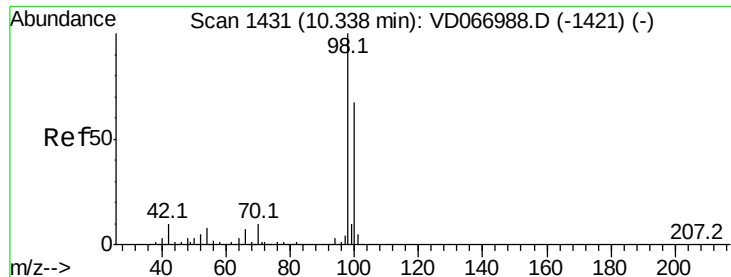
Ion Ratio Lower Upper

117 100

119 5.4 78.7 118.1#

121 0.0 24.2 36.2#

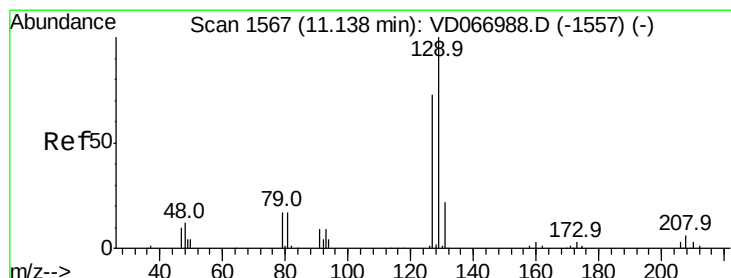
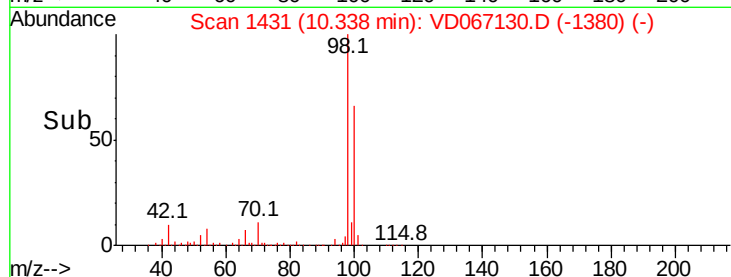
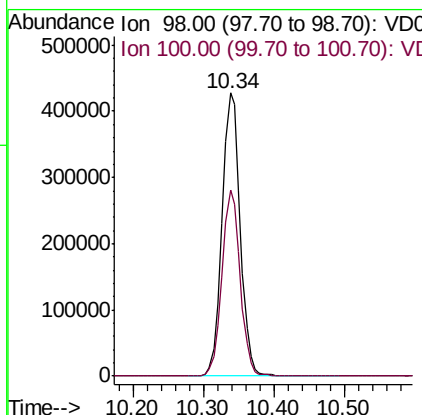
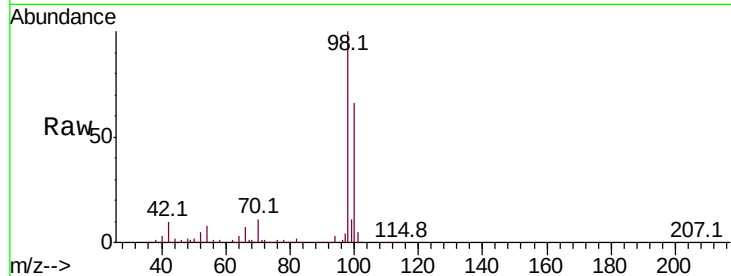




#50  
Toluene-d8  
Concen: 48.163 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

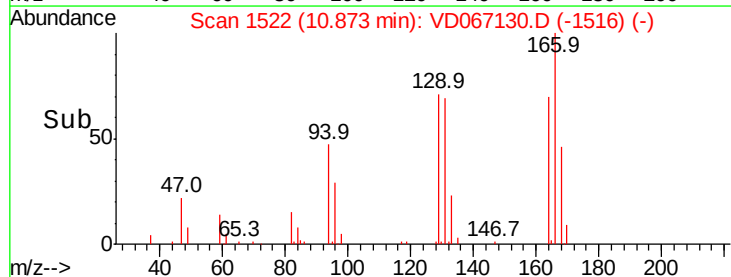
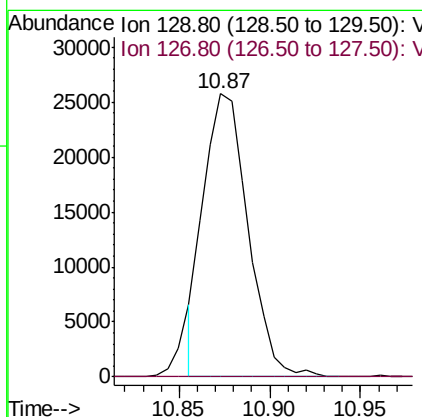
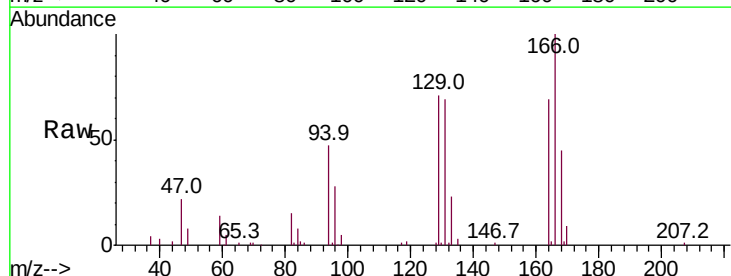
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2

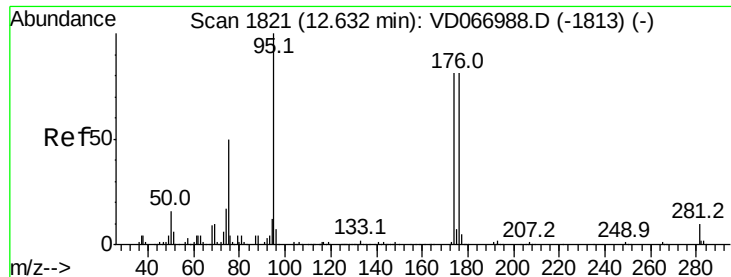
Tot Ion: 98 Resp: 763946  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.8 79.2



#60  
Dibromochloromethane  
Concen: 10.139 ug/l  
RT: 10.87 min Scan# 1522  
Delta R.T. -0.26 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

Tgt Ion: 129 Resp: 43675  
Ion Ratio Lower Upper  
129 100  
127 0.0 37.4 112.1#

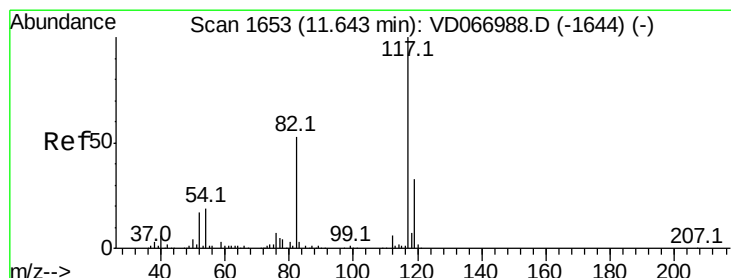
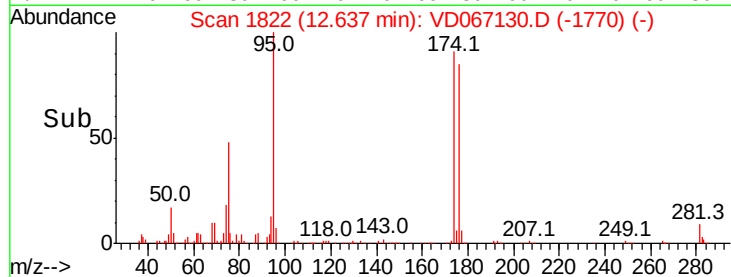
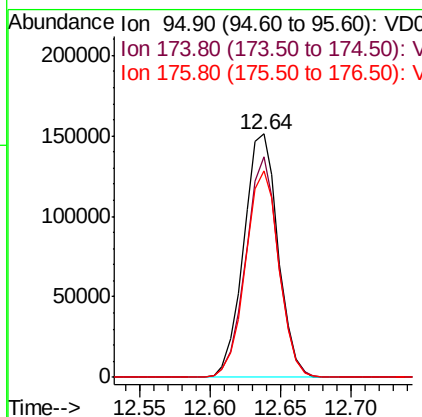
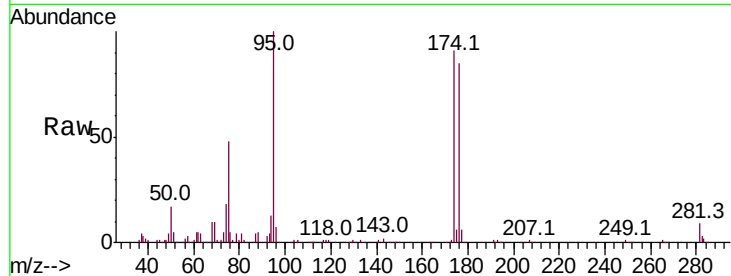




#62  
4-Bromofluorobenzene  
Concen: 47.819 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.01 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

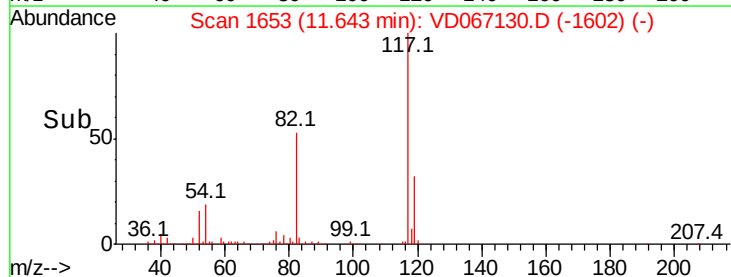
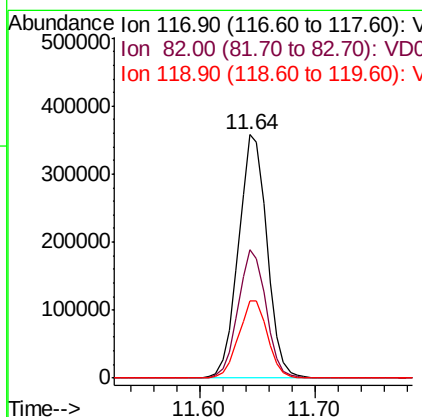
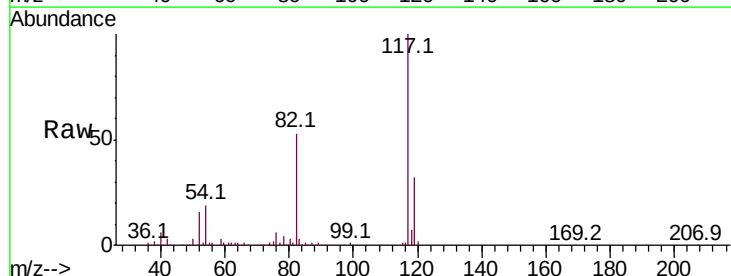
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-2

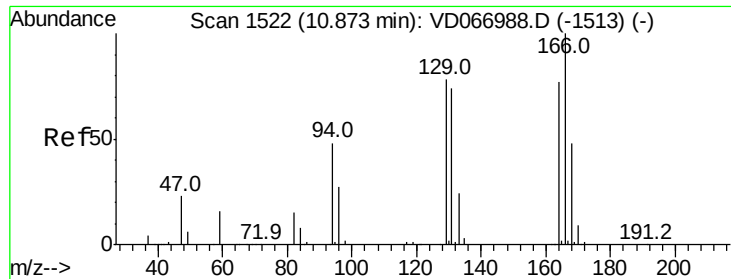
Tot Ion: 95 Resp: 257488  
Ion Ratio Lower Upper  
95 100  
174 86.3 0.0 167.6  
176 82.9 0.0 162.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067130.D  
Acq: 07 Oct 2020 02:46

Tgt Ion: 117 Resp: 612404  
Ion Ratio Lower Upper  
117 100  
82 52.9 42.6 63.8  
119 31.8 26.3 39.5





#64

Tetrachloroethene

Concen: 10.792 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. 0.01 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampled :

SB-2

Tot Ion:164 Resp: 48047

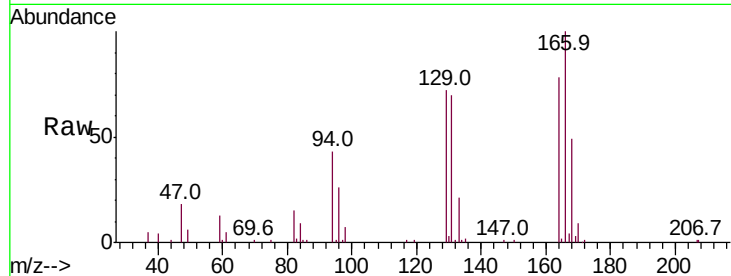
Ion Ratio Lower Upper

164 100

166 128.0 104.4 156.6

129 91.7 81.3 121.9

131 89.4 77.1 115.7

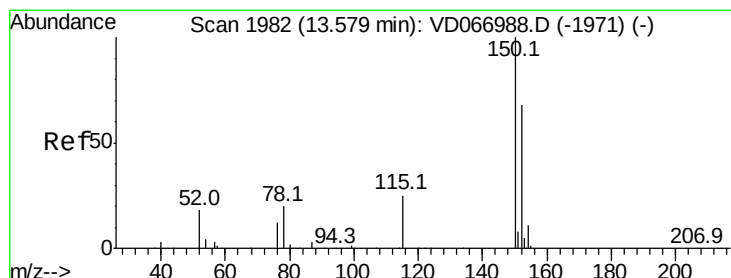
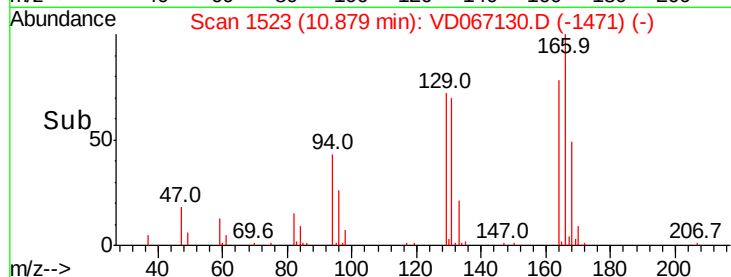
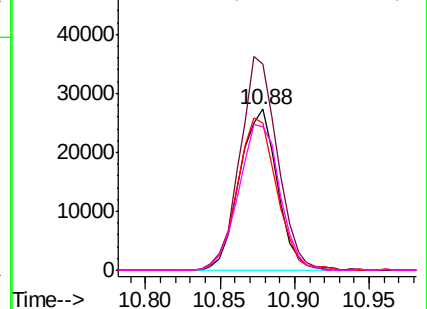


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

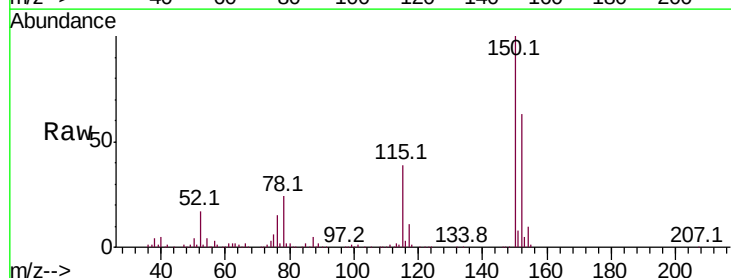
Tgt Ion:152 Resp: 282496

Ion Ratio Lower Upper

152 100

115 60.2 29.6 88.8

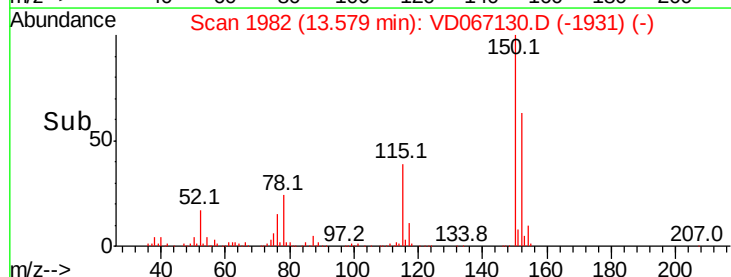
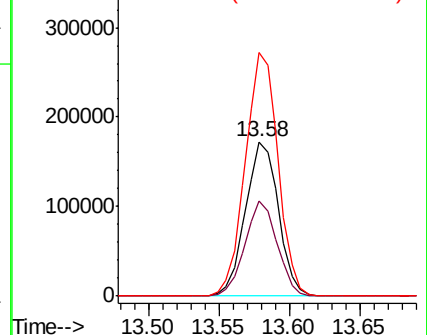
150 157.0 0.0 344.8

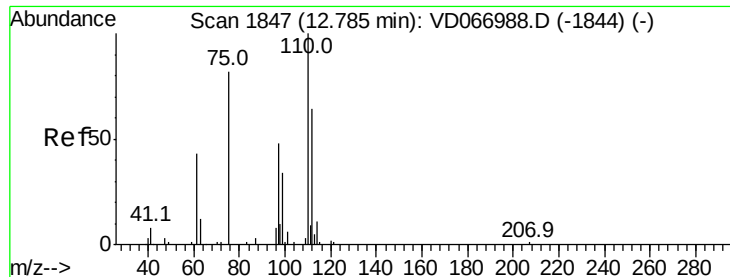


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 51.655 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

Instrument :

MSVOA\_D

ClientSampleId :

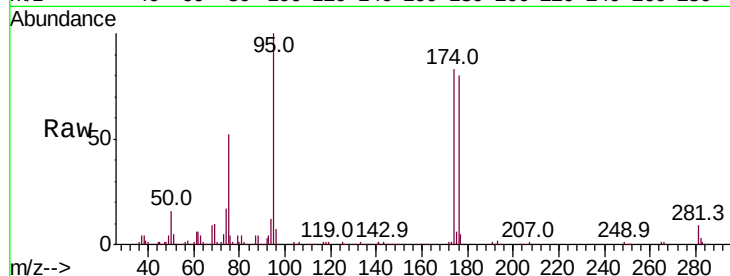
SB-2

Tot Ion: 75 Resp: 127103

Ion Ratio Lower Upper

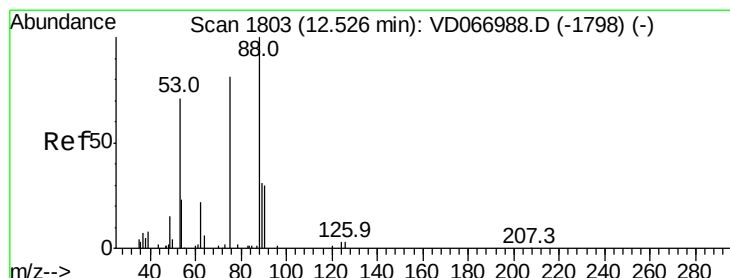
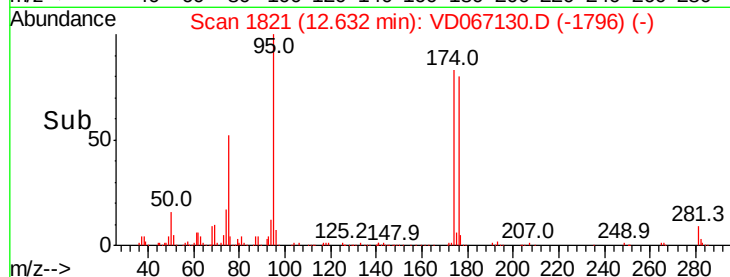
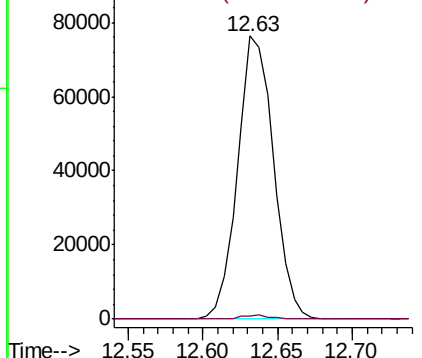
75 100

77 1.2 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: 128.781 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067130.D

Acq: 07 Oct 2020 02:46

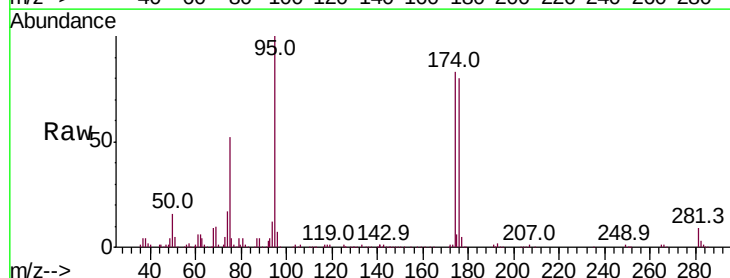
Tgt Ion: 75 Resp: 127103

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.2 38.9 58.3#



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

