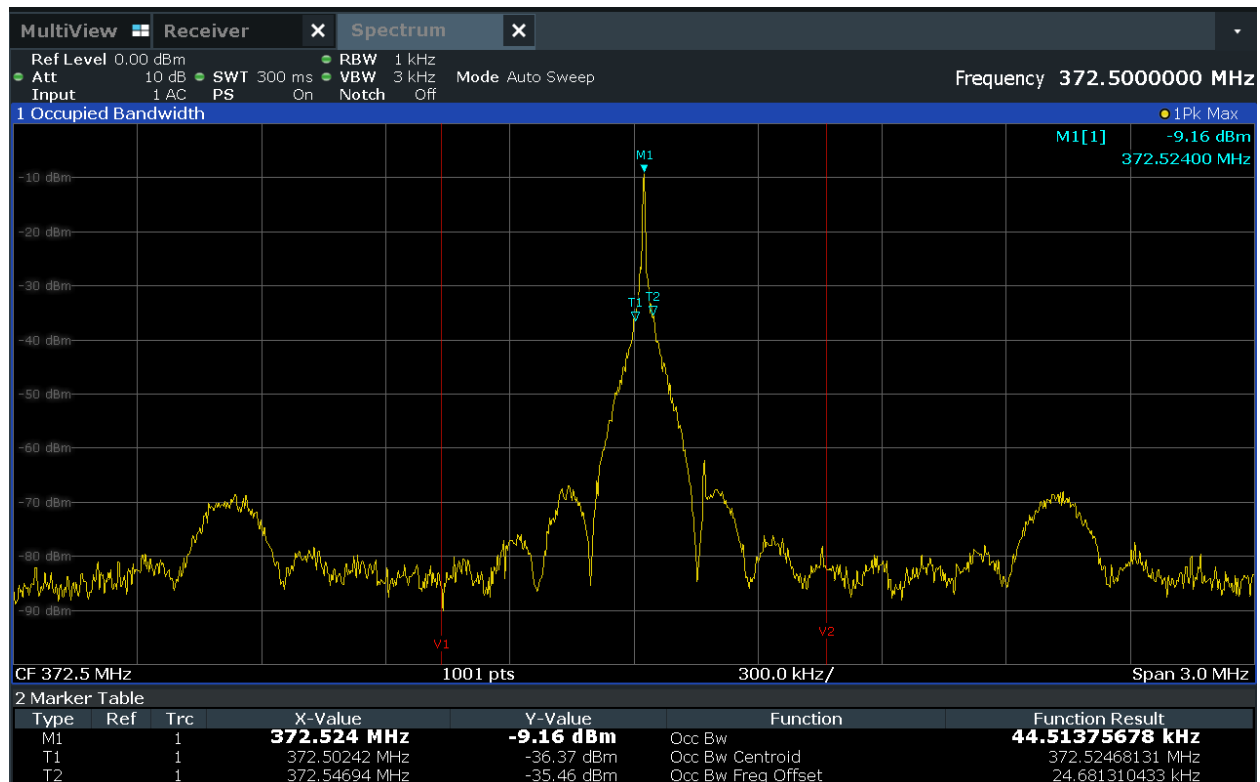


Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	372.5MHz
Result	99% BW = 44.5kHz
Notes	Ryobi Rolling Code

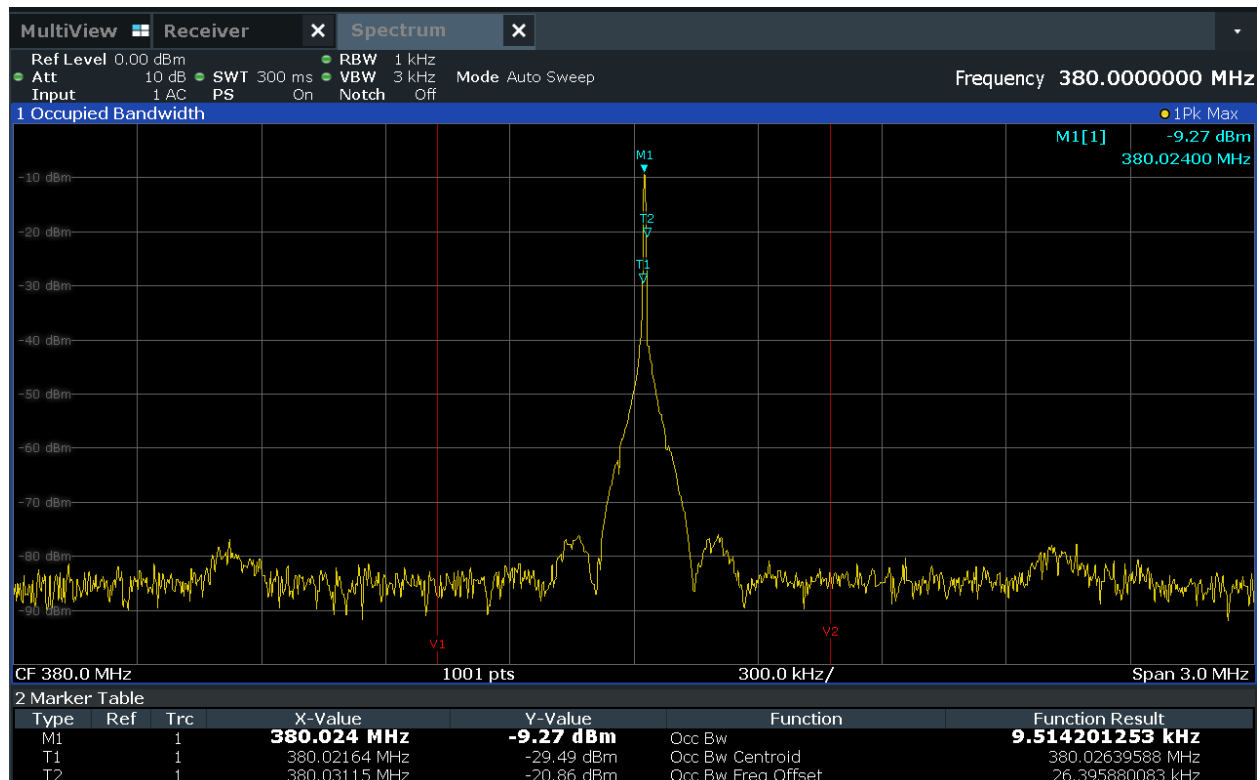


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 372.5MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:31:29 AM
 Notes : Ryobi Rolling Code

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	380MHz
Result	99% BW = 9.5kHz
Notes	Genie 9 Switch / 3 Position Dip Switch, 1993-1995

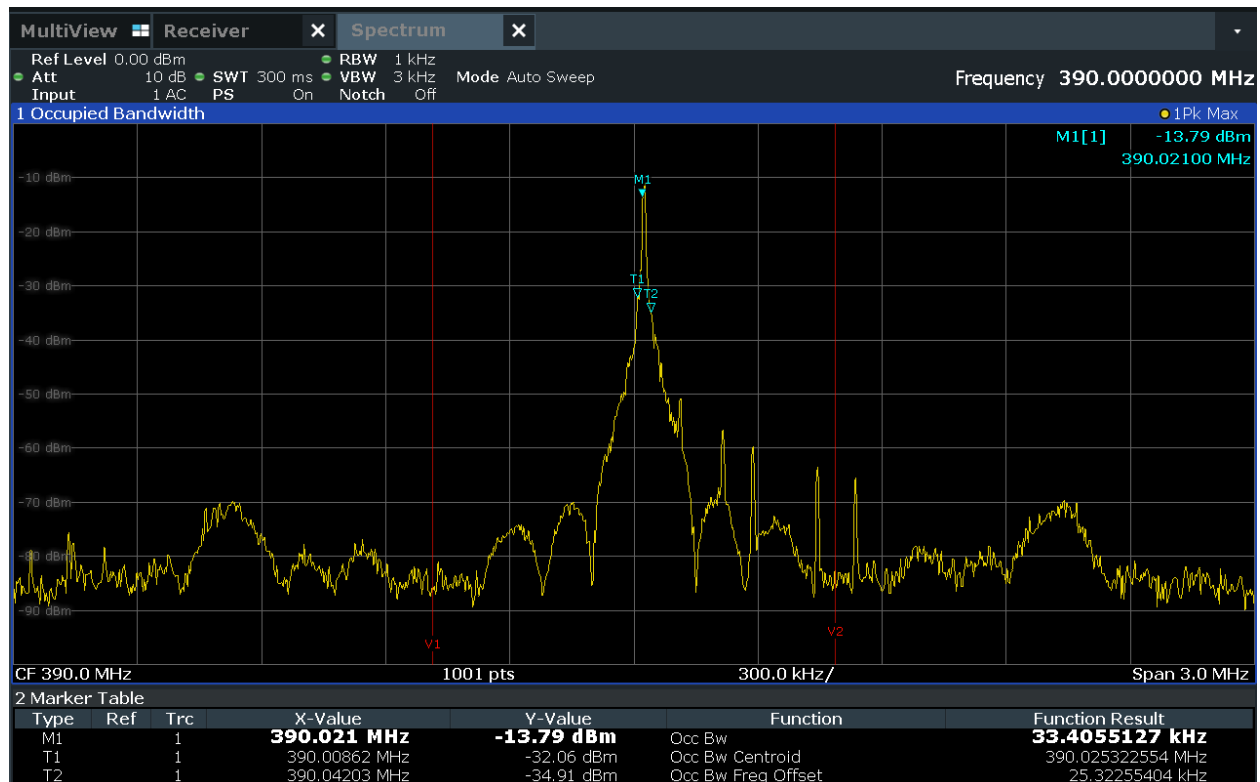


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 380MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:32:52 AM
 Notes : Genie 9 Switch / 3 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 33.4kHz
Notes	Genie Intellicode® I, 1995-current

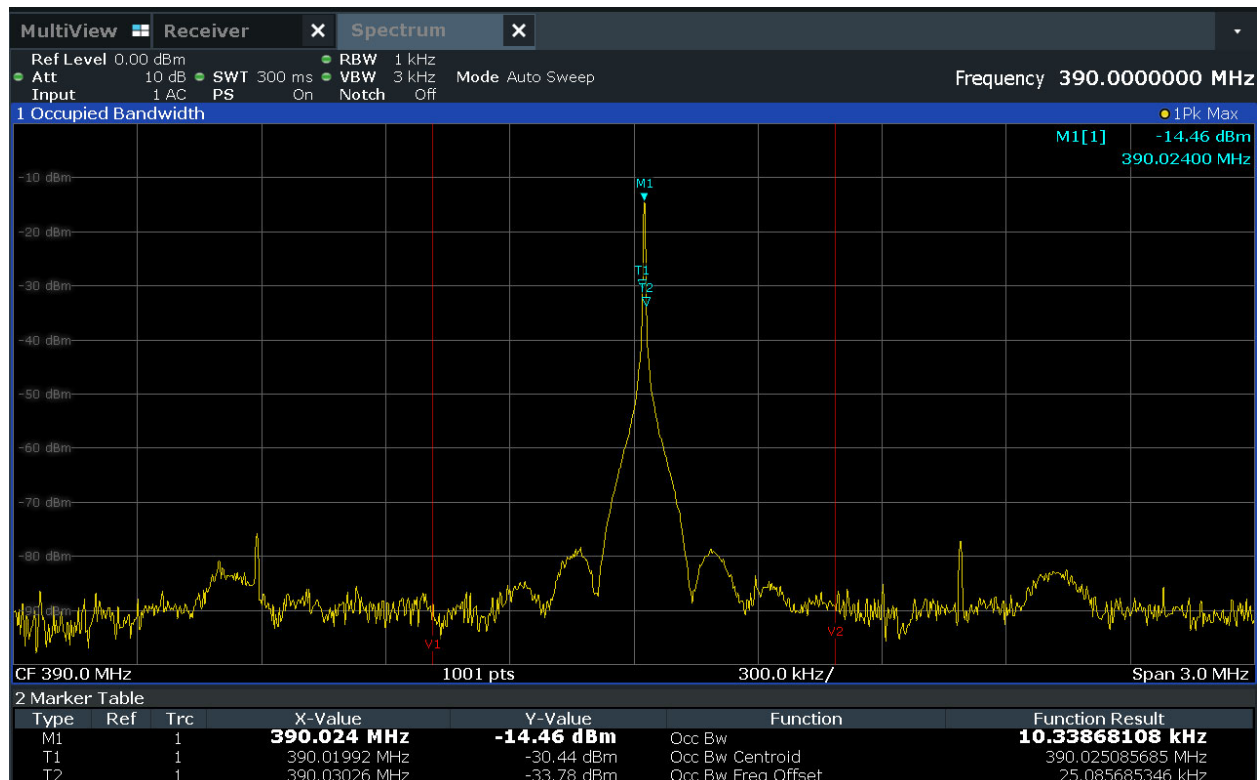


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:35:00 AM
 Notes : Genie Intellicode® I, 1995-current

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 10.3kHz
Notes	Chamberlain Orange/Red Learn Button, Security +®, 1996-2005

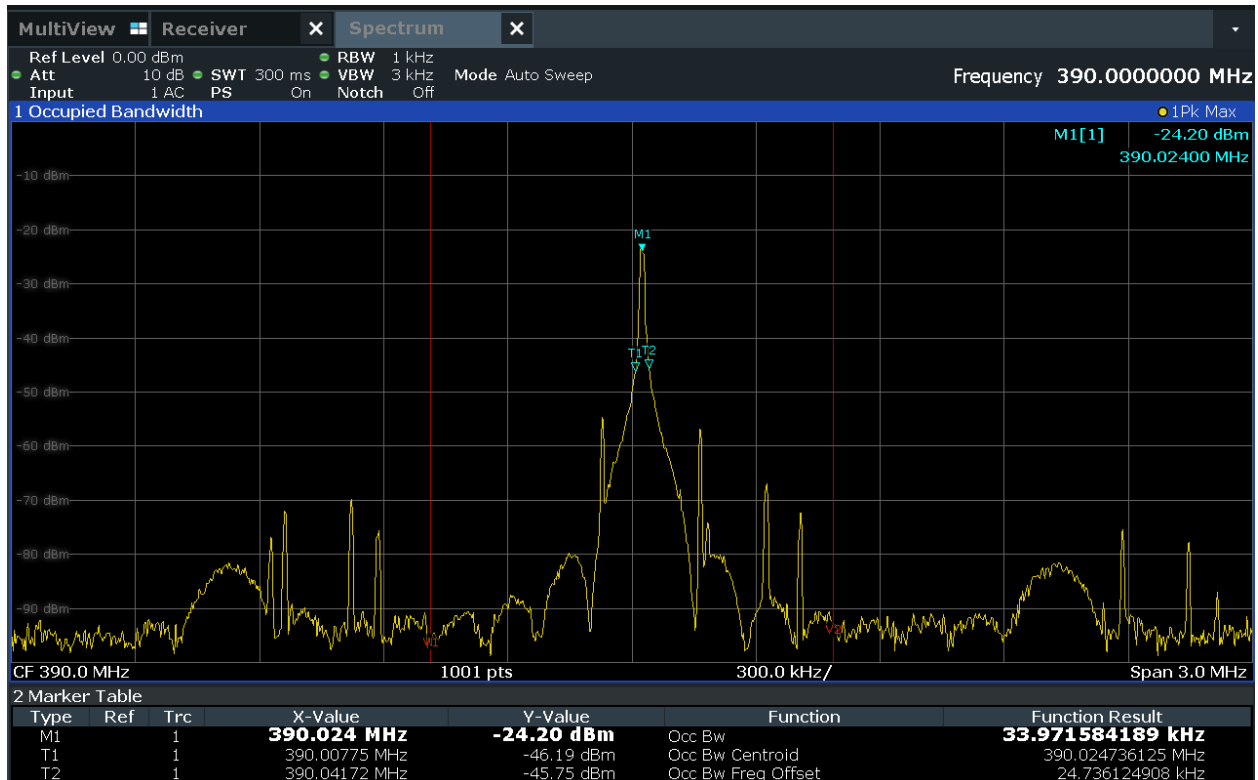


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:35:47 AM
 Notes : Chamberlain Orange/Red Learn Button, Security +®, 1996-2005

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 34.0kHz
Notes	Chamberlain Yellow Learn Button, Security +2.0®, 2011-current

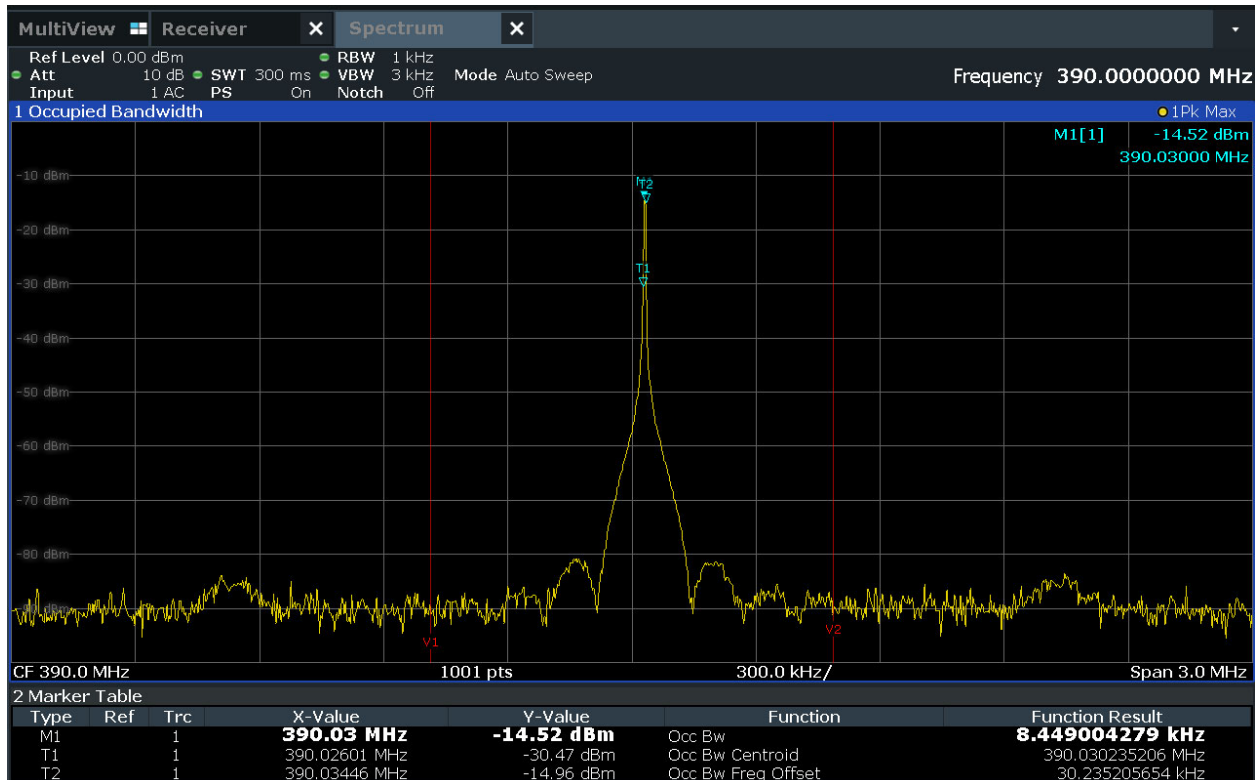


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:36:36 AM
 Notes : Chamberlain Yellow Learn Button, Security +2.0®, 2011-current

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 8.4kHz
Notes	Chamberlain Green Learn Button, Billion Code®, 1993-1995

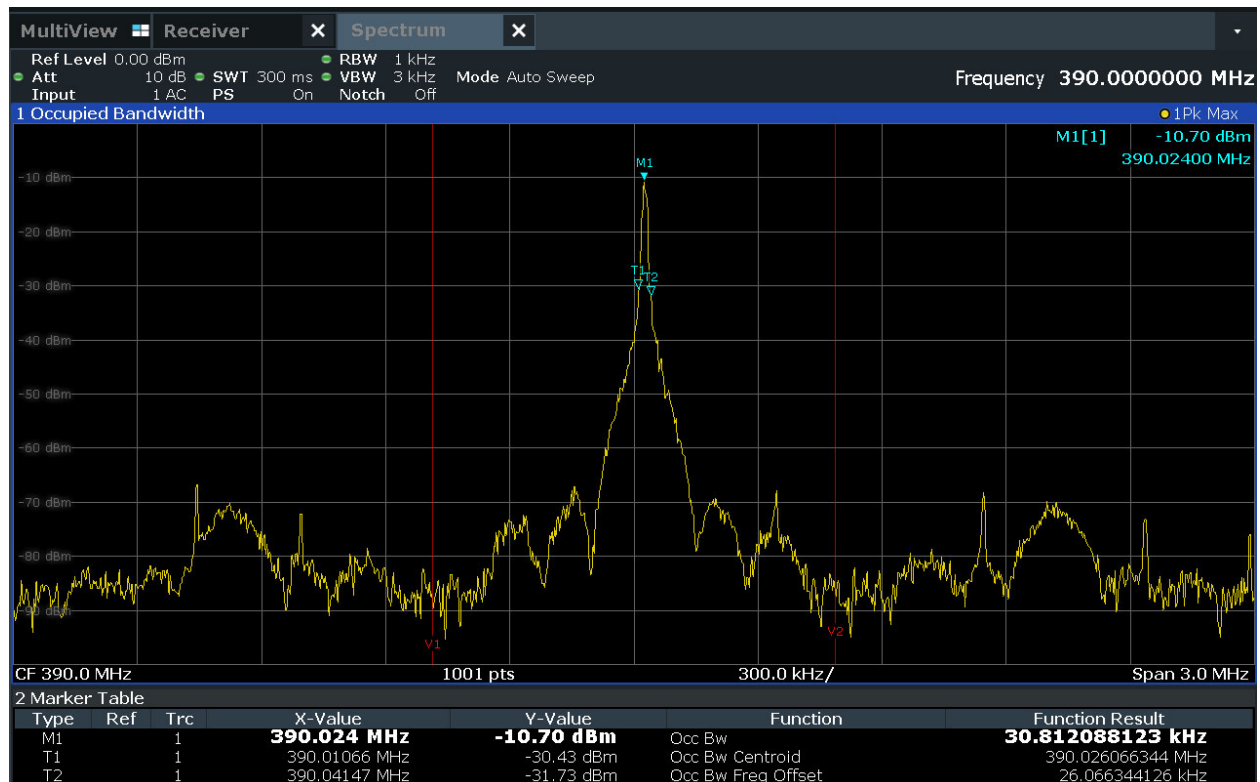


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:37:08 AM
 Notes : Chamberlain Green Learn Button, Billion Code®, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 30.8kHz
Notes	Genie Intellicode® II, 2010-2011 Packet Protocol ID 06

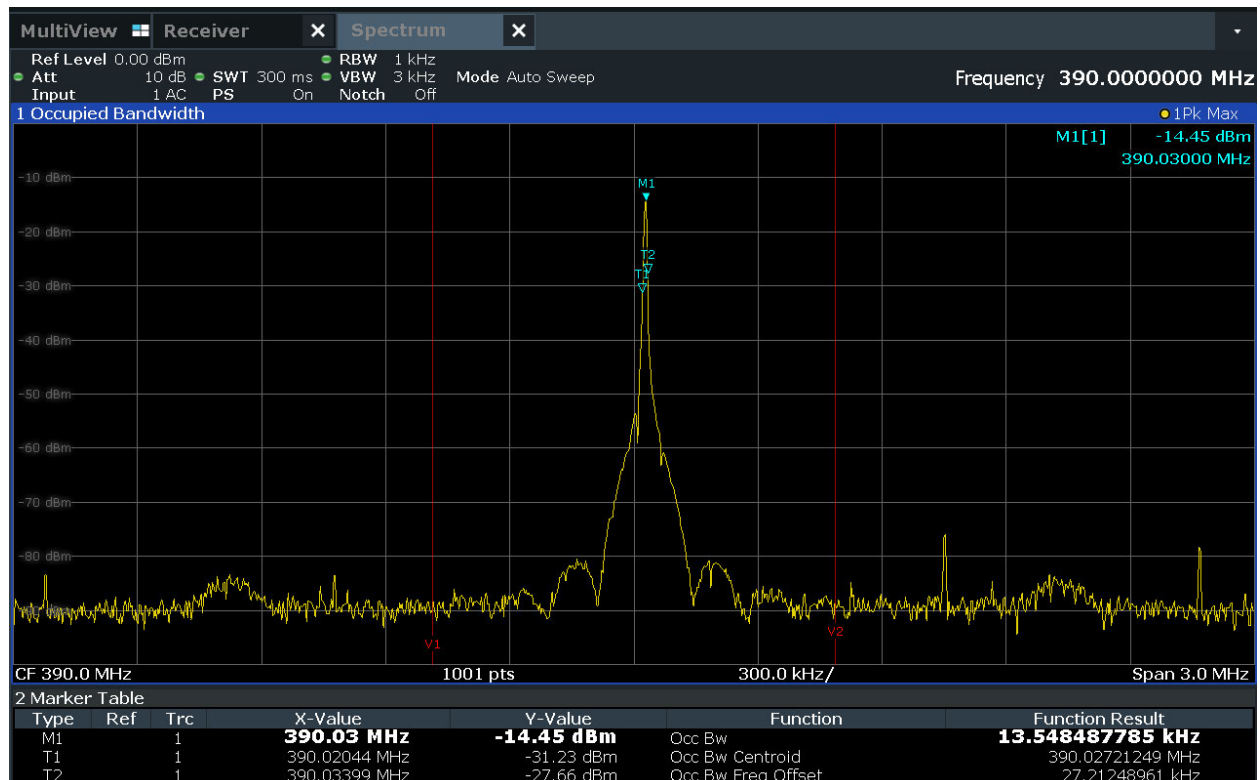


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:37:49 AM
 Notes : Genie Intellicode® II, 2010-2011 Packet Protocol ID 06

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 13.5kHz
Notes	Chamberlain 9 Switch / 3 Position Dip Switch

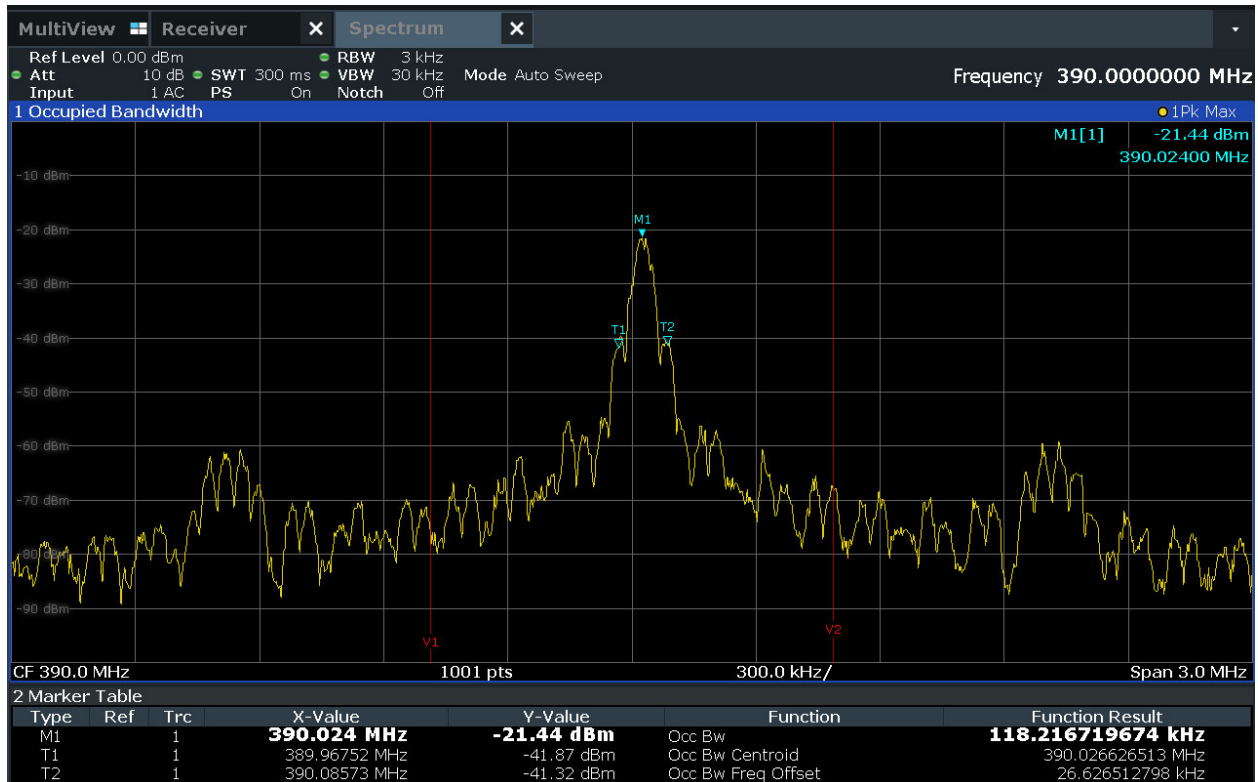


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:38:40 AM
 Notes : Chamberlain 9 Switch / 3 Position Dip Switch

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 118.2kHz
Notes	Genie 12 Switch / 2 Position Dip Switch, 1993-1995

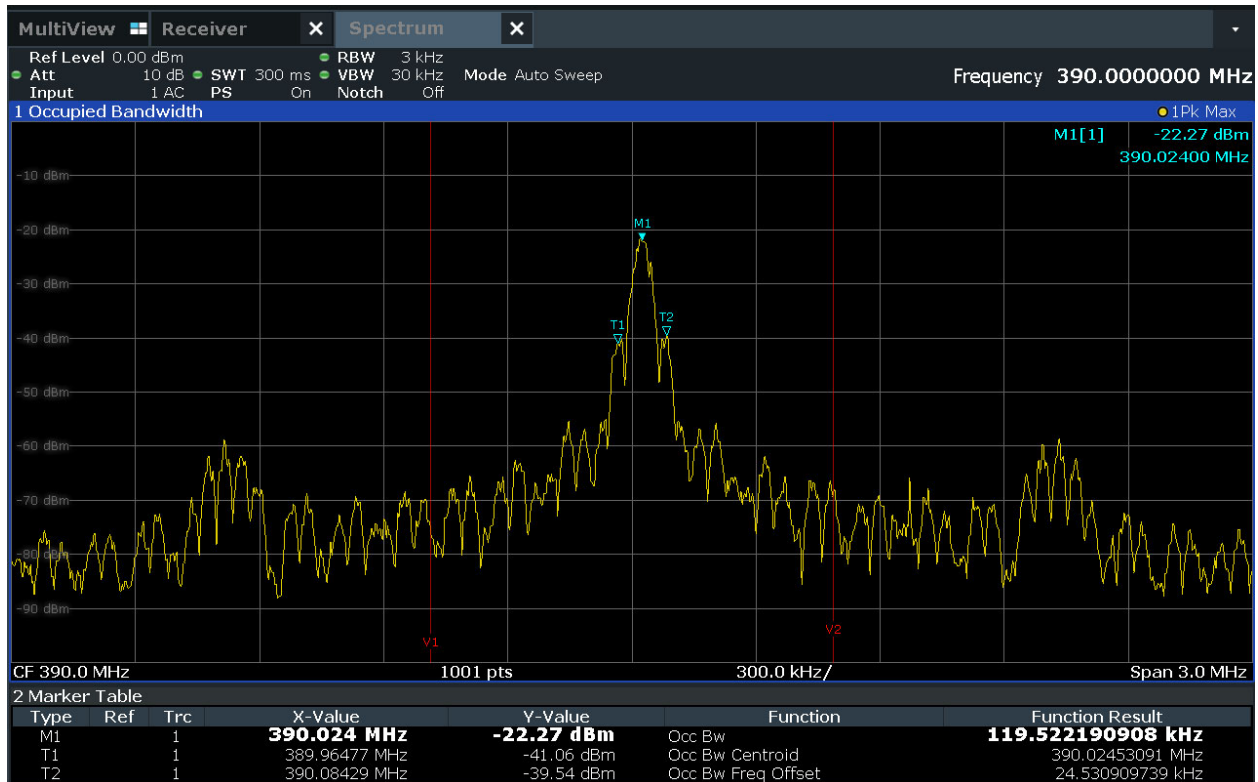


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:39:57 AM
 Notes : Genie 12 Switch / 2 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 119.5kHz
Notes	Genie 9 Switch / 2 Position Dip Switch, 1993-1995

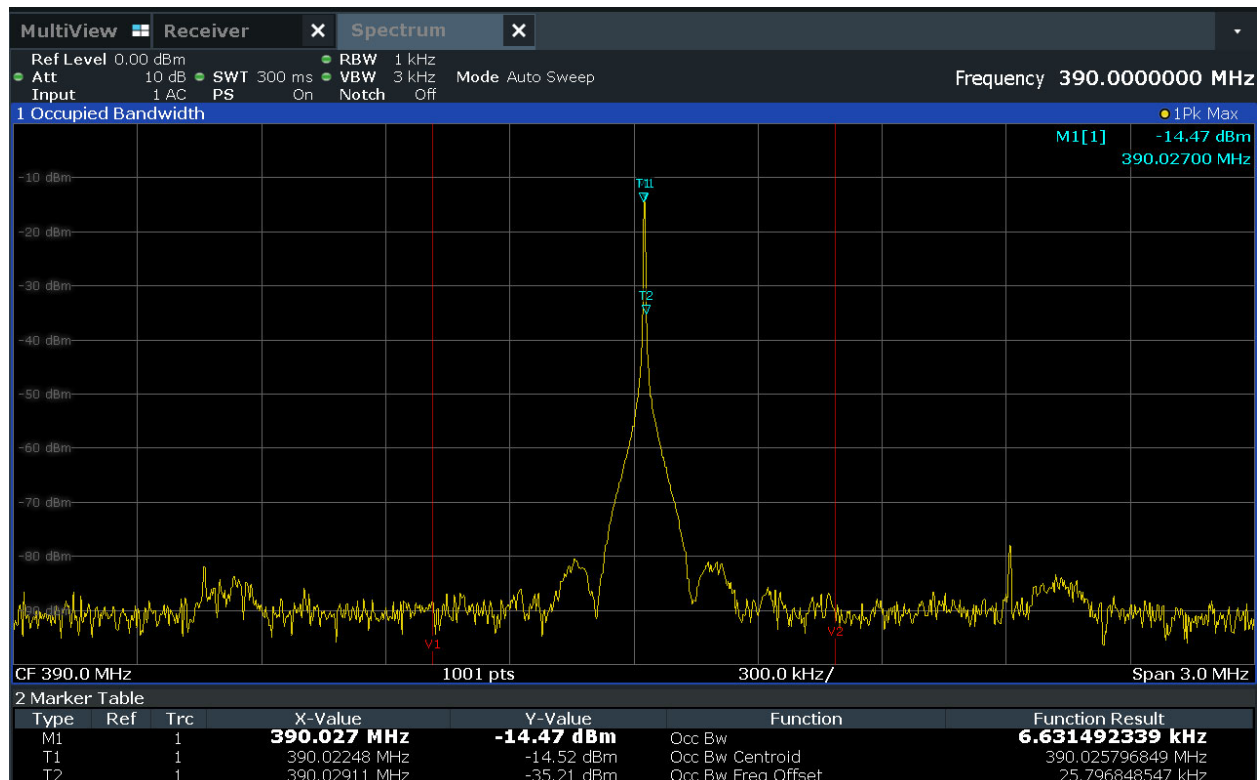


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:40:32 AM
 Notes : Genie 9 Switch / 2 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	390MHz
Result	99% BW = 6.6kHz
Notes	OHD 9 Switch / 3 Position Dip Switch, 1993-1995

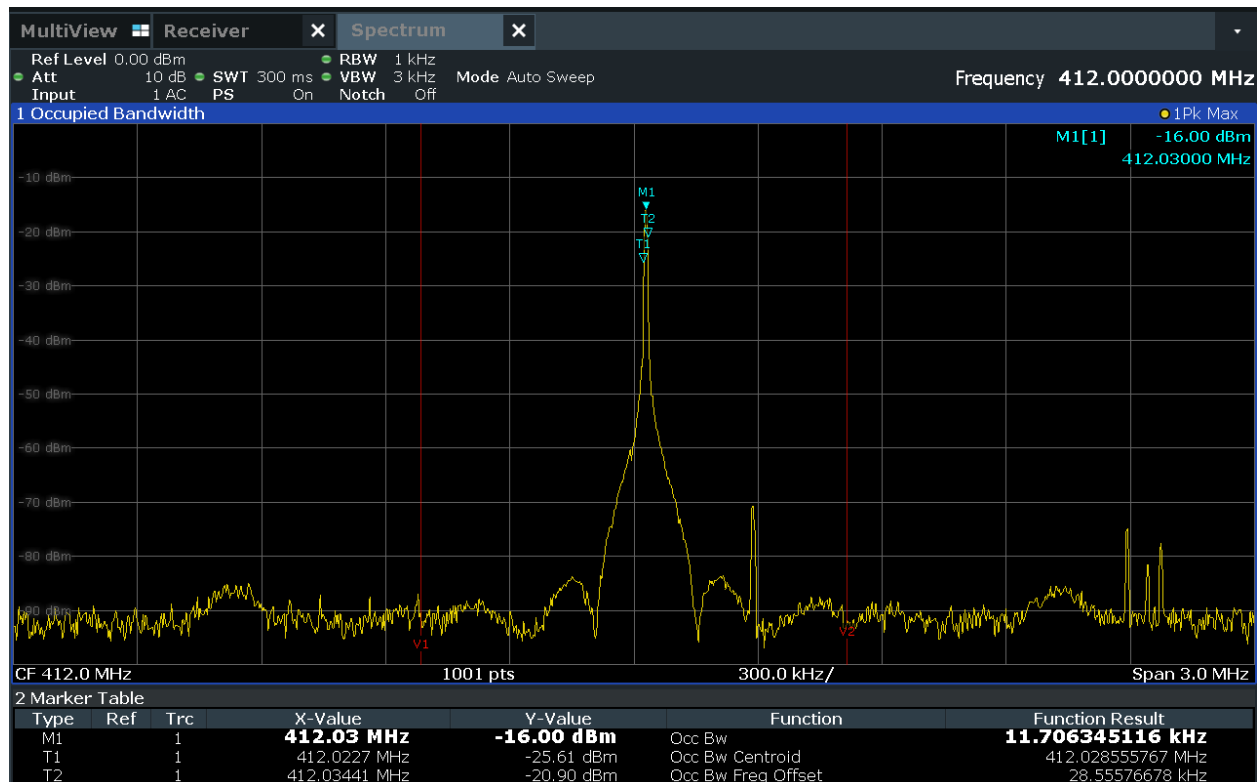


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 390MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:41:05 AM
 Notes : OHD 9 Switch / 3 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	412MHz
Result	99% BW = 11.7kHz
Notes	Genie 9 Switch / 3 Position Dip Switch, 1993-1995

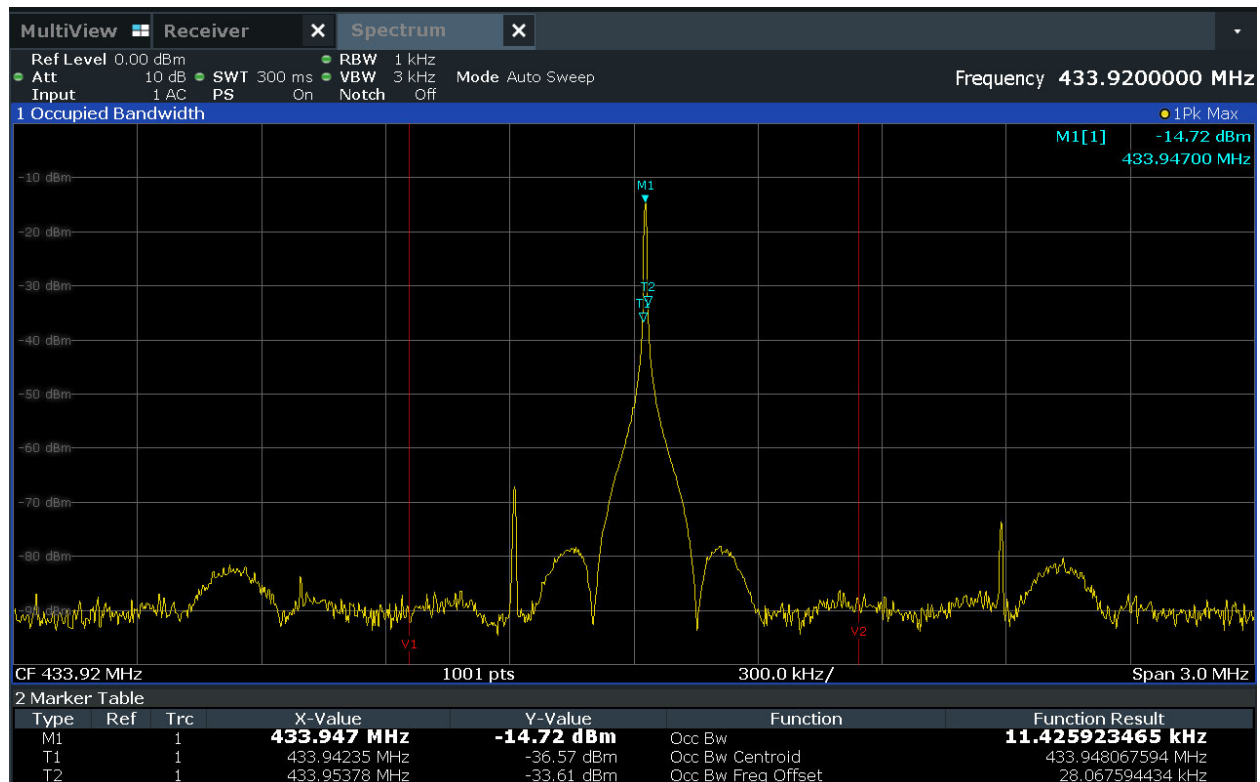


Occupied Bandwidth

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 412MHz
 Parameters : 99% Bandwidth
 Date : 2/10/2026 11:42:17 AM
 Notes : Genie 9 Switch / 3 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	433.92MHz
Result	99% BW = 11.4kHz
Notes	FAAC Rolling Code



Occupied Bandwidth

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 433.92MHz
Parameters : 99% Bandwidth
Date : 2/10/2026 11:43:49 AM
Notes : FAAC Rolling Code

TRACE1 : Function plot of Max Hold Peak

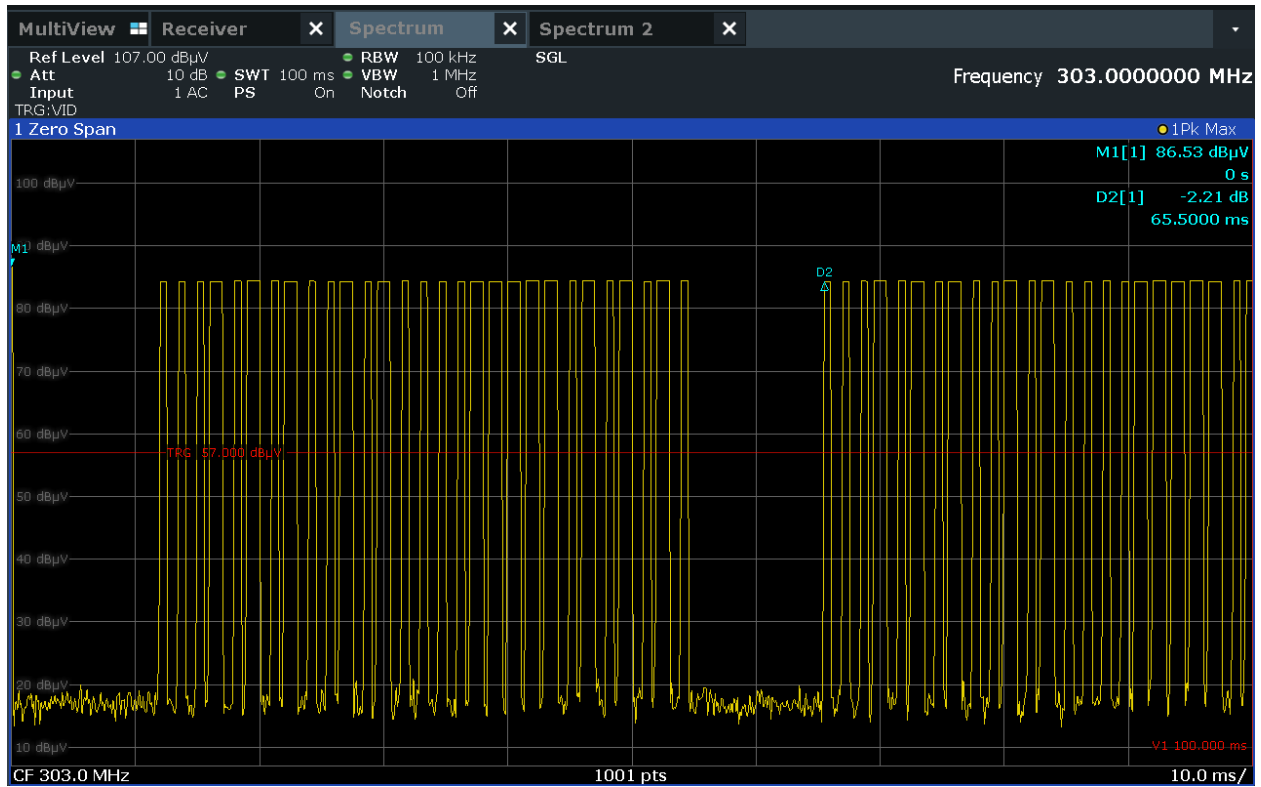
23. Duty Cycle Factor Measurements

EUT Information	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx

Test Setup Details	
Setup Format	Tabletop
Height of Support	NA
Measurement Method	Antenna Port Conducted
Type of Test Site	Elite Test Bench
Test Site Used	NA
Type of Antennas Used	NA
Notes	None

Procedure
The duty cycle factor is used to convert peak detected readings to average readings when pulsed modulation is employed. This factor is computed from the time domain trace of the pulsed signal. With the transmitter set up to transmit for maximum operating power level, the time domain trace is displayed on the spectrum analyzer. This trace is obtained by tuning center frequency to the transmitter frequency and then setting a zero span width. The resolution bandwidth (RBW) is set $\geq$ OBW. The video bandwidth (VBW) was set $\geq$ OBW and $\geq$ RBW. The amplitude settings are adjusted so that the on/off transitions clear the 4th division from the bottom of the display. The markers are set at the beginning and end of the transmission duration (T). The trace is recorded. Next the spectrum analyzer center frequency is set to the transmitter frequency with a zero span width and 10msec/div. This shows if the word or transmission duration is longer than 100msec or shorter than 100msec. If the word period is less than 100msec, the display is set to show at least one word. The on-time and off-time are then measured. The on-time is total time signal level exceeds the 4th division. Off-time is time under for the word period. The duty cycle is then computed as $\left(\frac{\text{On Time}}{\text{Word Period}}\right)$, where $\text{Word Period} = (\text{On Time} + \text{Off Time})$.

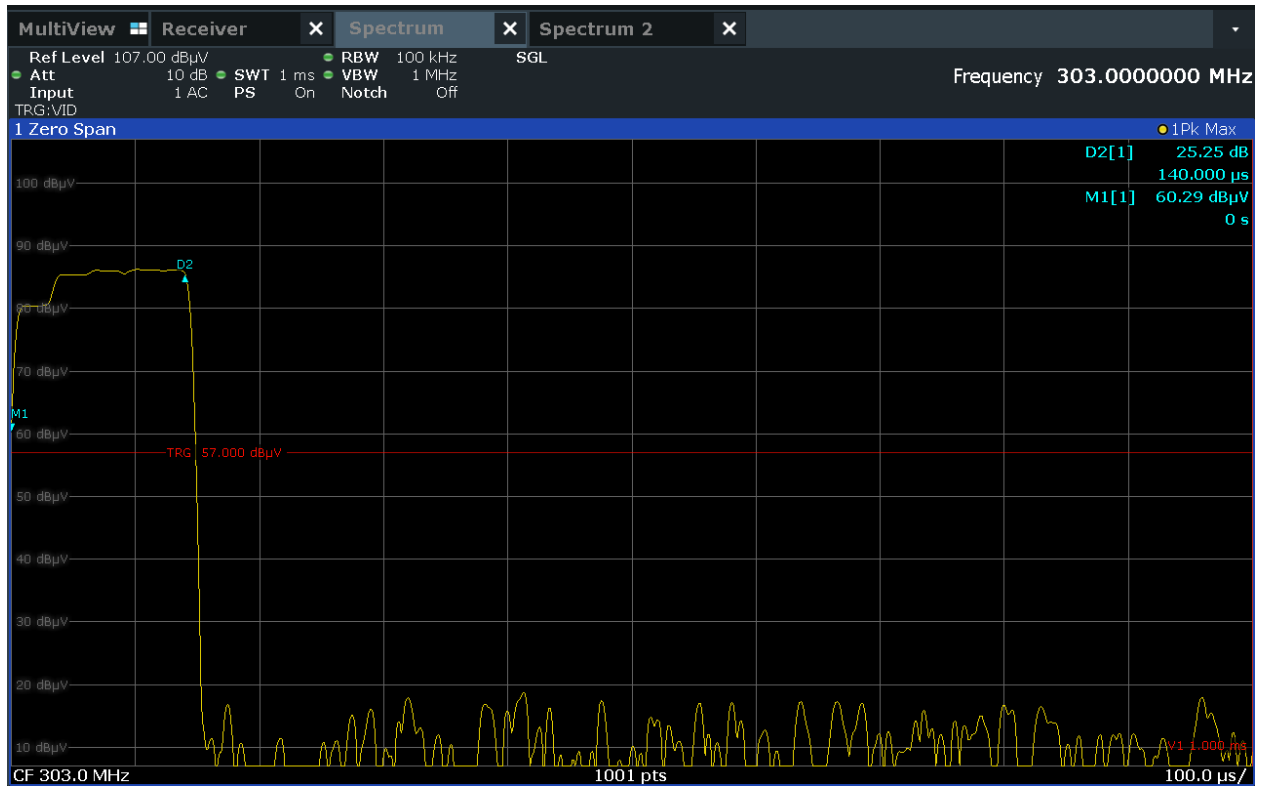
Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	303MHz
Result	Duty Cycle Factor = -9.82dB
Notes	Guardian Rolling Code



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 303MHz
 Parameters : Word Length
 Date : 2/10/2026 2:13:09 PM
 Notes : Guardian Rolling Code

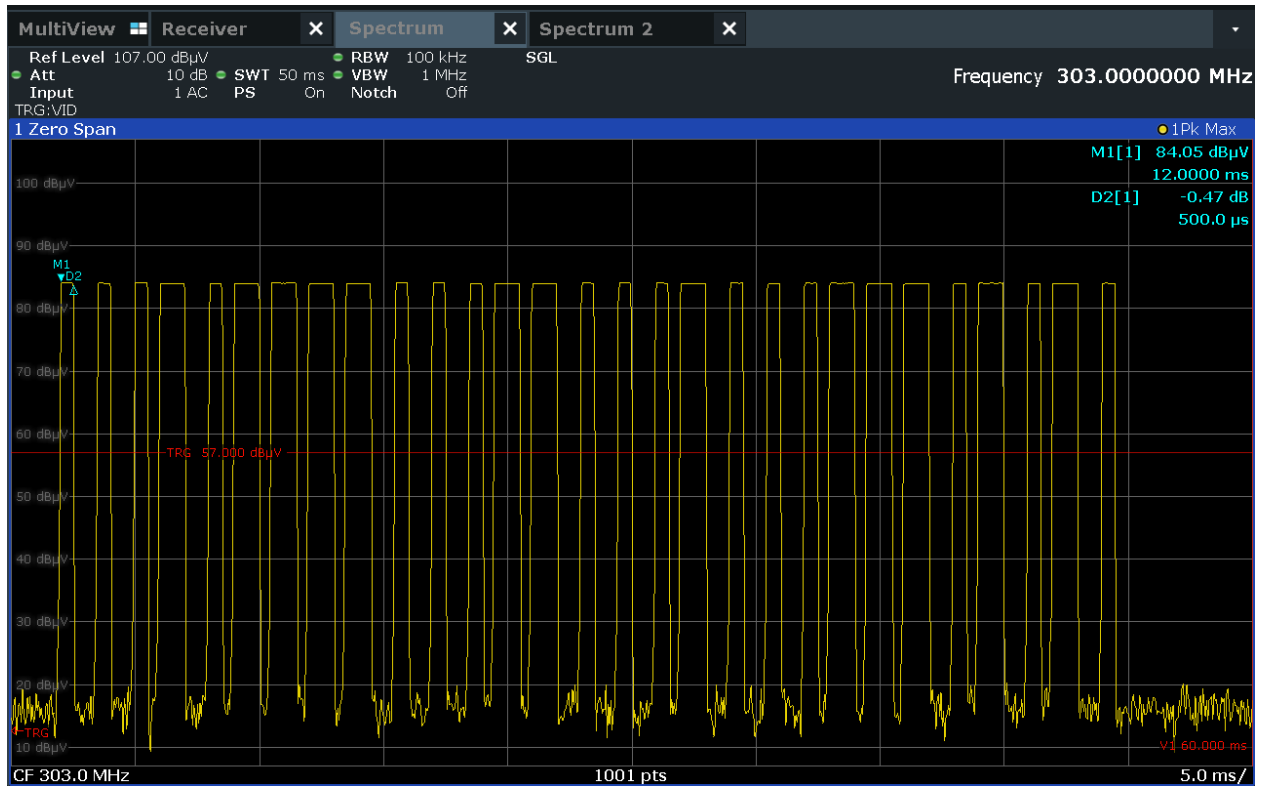
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 303MHz
Parameters : Preamble Length
Date : 2/11/2026 7:09:23 AM
Notes : Guardian Rolling Code

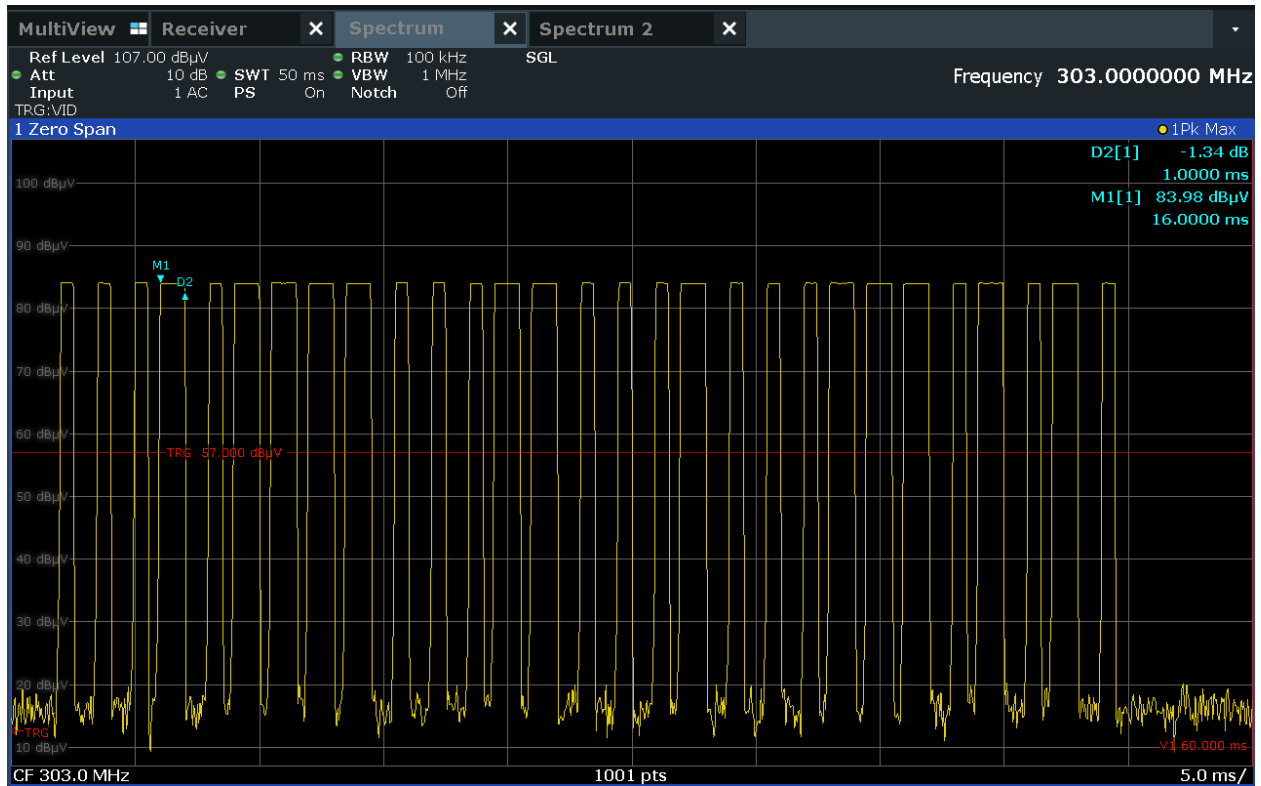
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 303MHz
Parameters : Short Length
Date : 2/11/2026 7:07:09 AM
Notes : Guardian Rolling Code

TRACE1 : Function plot of Max Hold Peak



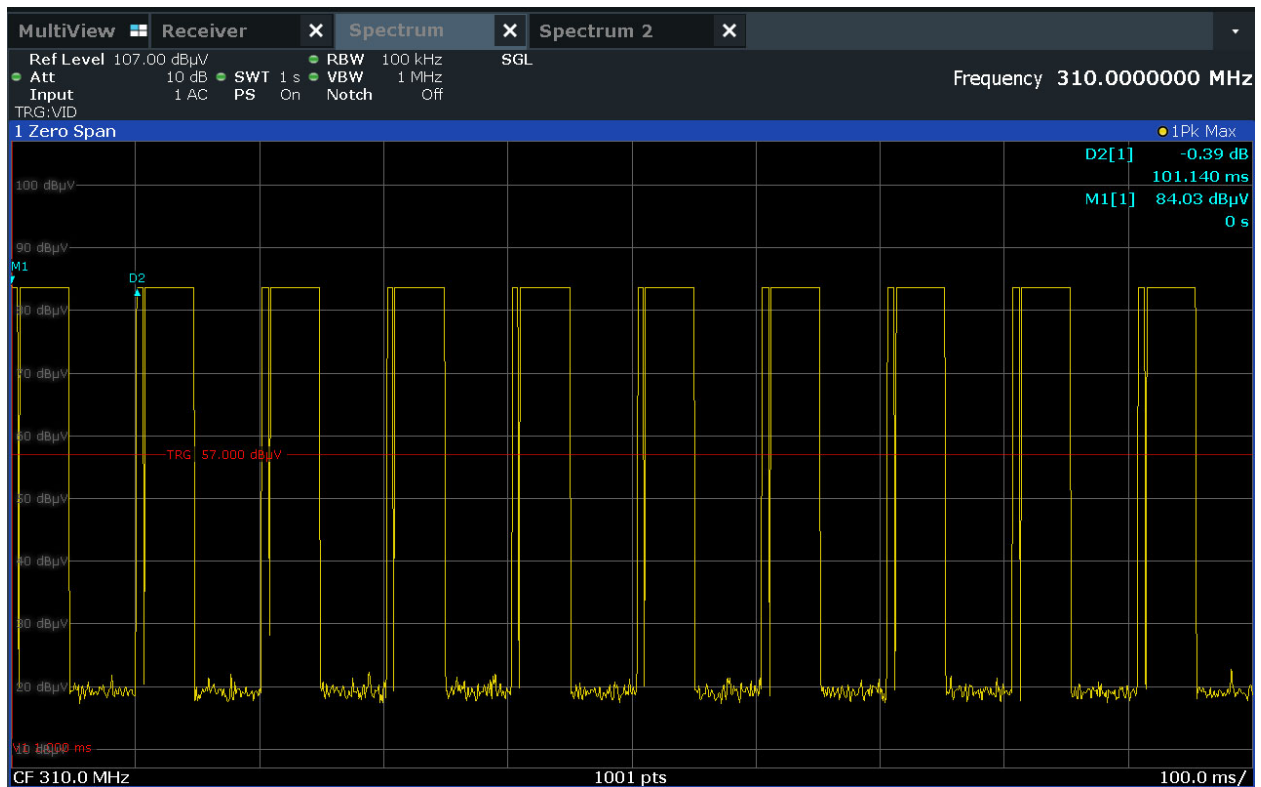
Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 303MHz
 Parameters : Long Length
 Date : 2/11/2026 7:07:39 AM
 Notes : Guardian Rolling Code

TRACE1 : Function plot of Max Hold Peak

$$Duty\ Cycle\ Factor(dB) = 20 \times \log_{10} \frac{0.14msec + (16 \times 0.50msec) + (13 \times 1.00msec)}{65.5msec} = -9.82dB$$

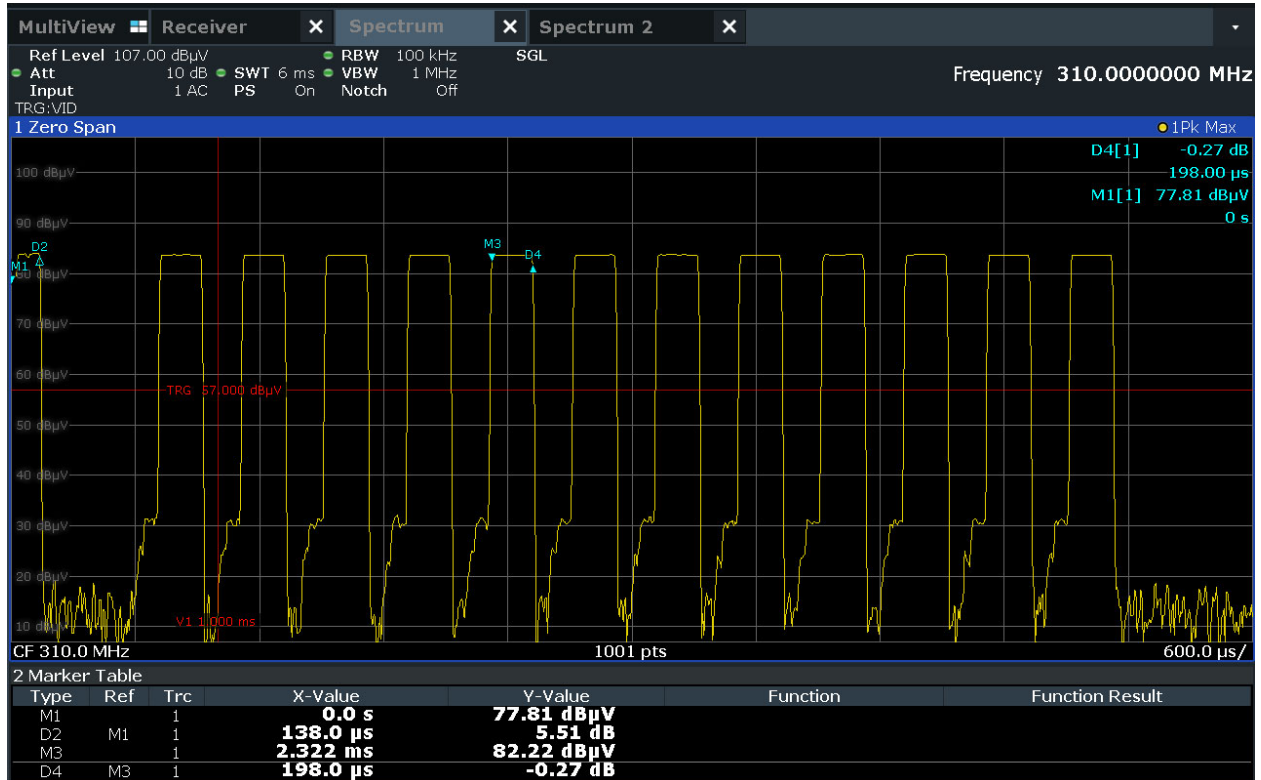
Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	310MHz
Result	Duty Cycle Factor = -12.87dB
Notes	Sommer Rolling Code



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Word Length
 Date : 2/11/2026 7:15:35 AM
 Notes : Sommer Rolling Code

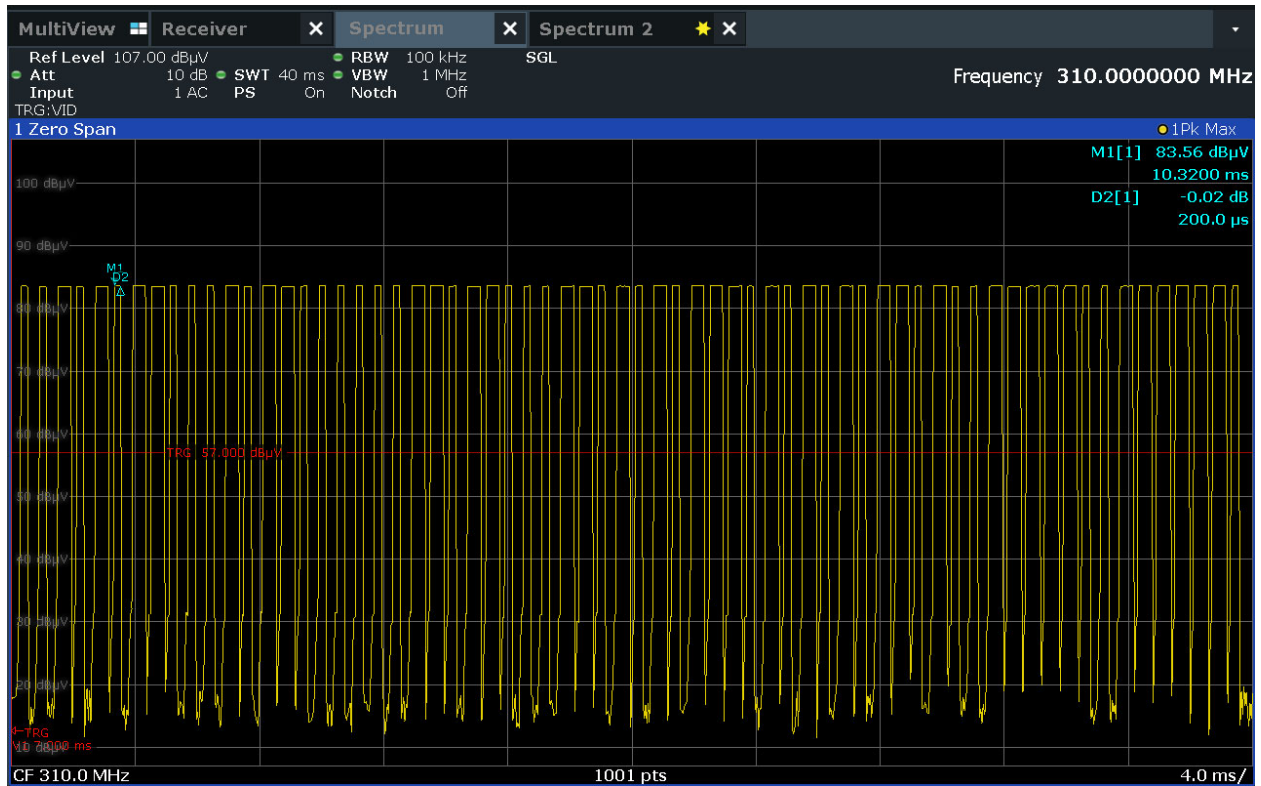
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 310MHz
Parameters : Preamble Length
Date : 2/11/2026 7:23:58 AM
Notes : Sommer Rolling Code

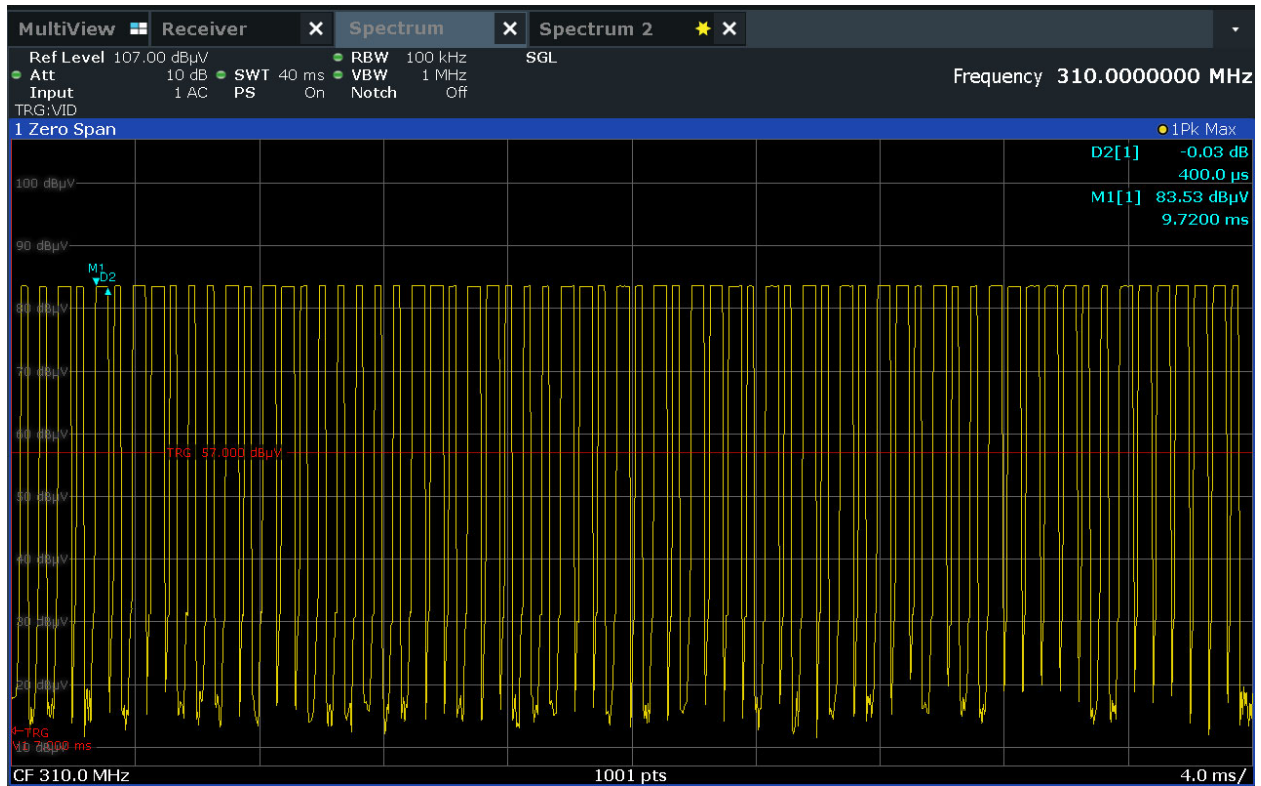
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Short Length
 Date : 2/11/2026 7:27:10 AM
 Notes : Sommer Rolling Code

TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

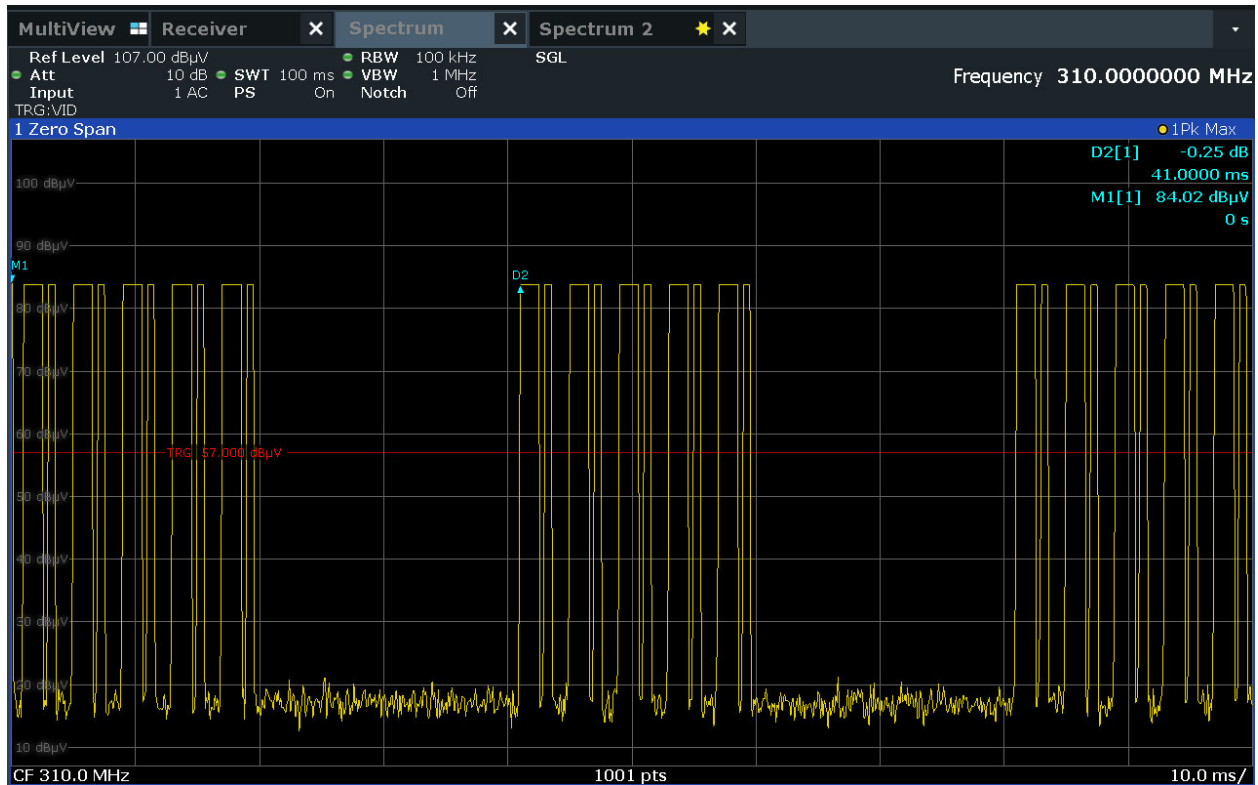
Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Long Length
 Date : 2/11/2026 7:27:50 AM
 Notes : Sommer Rolling Code

TRACE1 : Function plot of Max Hold Peak

$$\text{Duty Cycle Factor(dB)} = 20 \times \log_{10} \frac{0.138\text{msec} + (12 \times 0.198\text{msec}) + (31 \times 0.2\text{msec}) + (35 \times 0.4\text{msec})}{100\text{msec}}$$

$$= -12.87\text{dB}$$

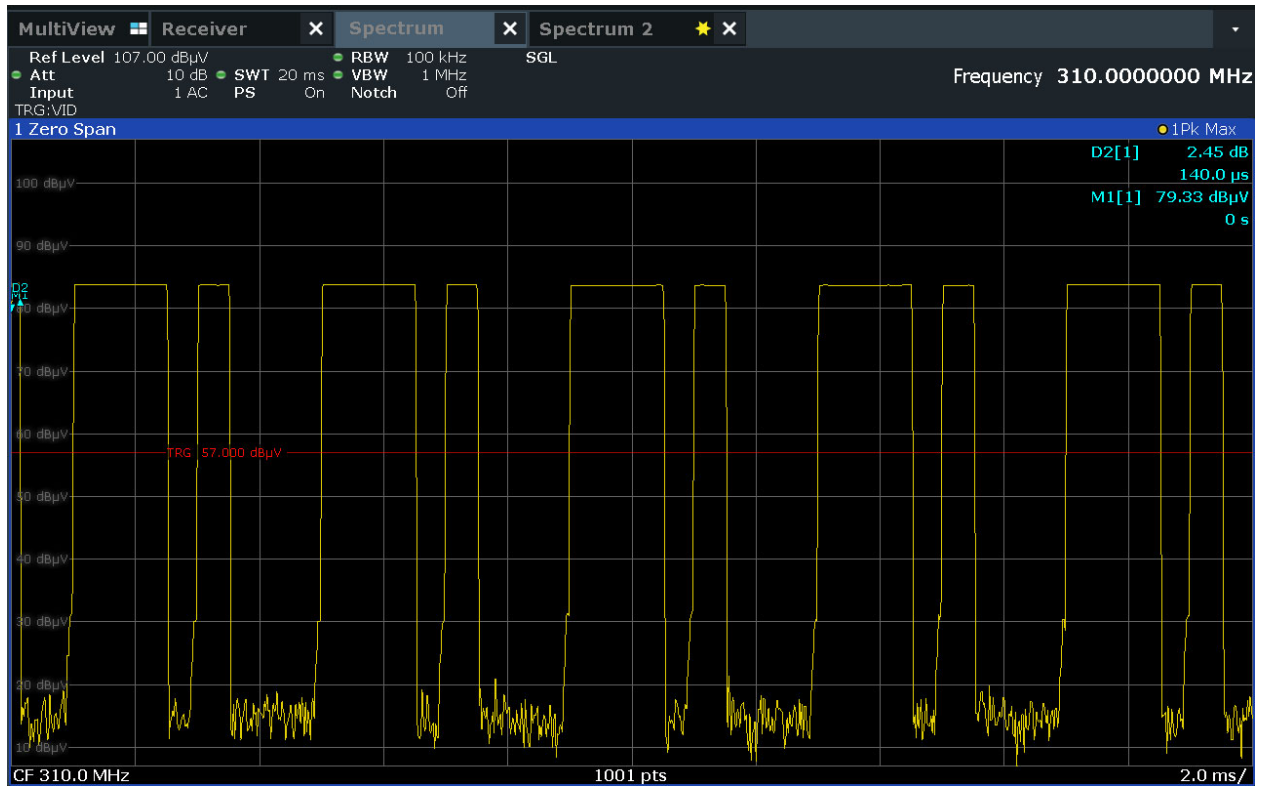
Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	310MHz
Result	Duty Cycle Factor = -12.22dB
Notes	Stanley 10 Switch / 2 Position Dip Switch



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Word Length
 Date : 2/11/2026 8:09:51 AM
 Notes : Stanley 10 Switch / 2 Position Dip Switch

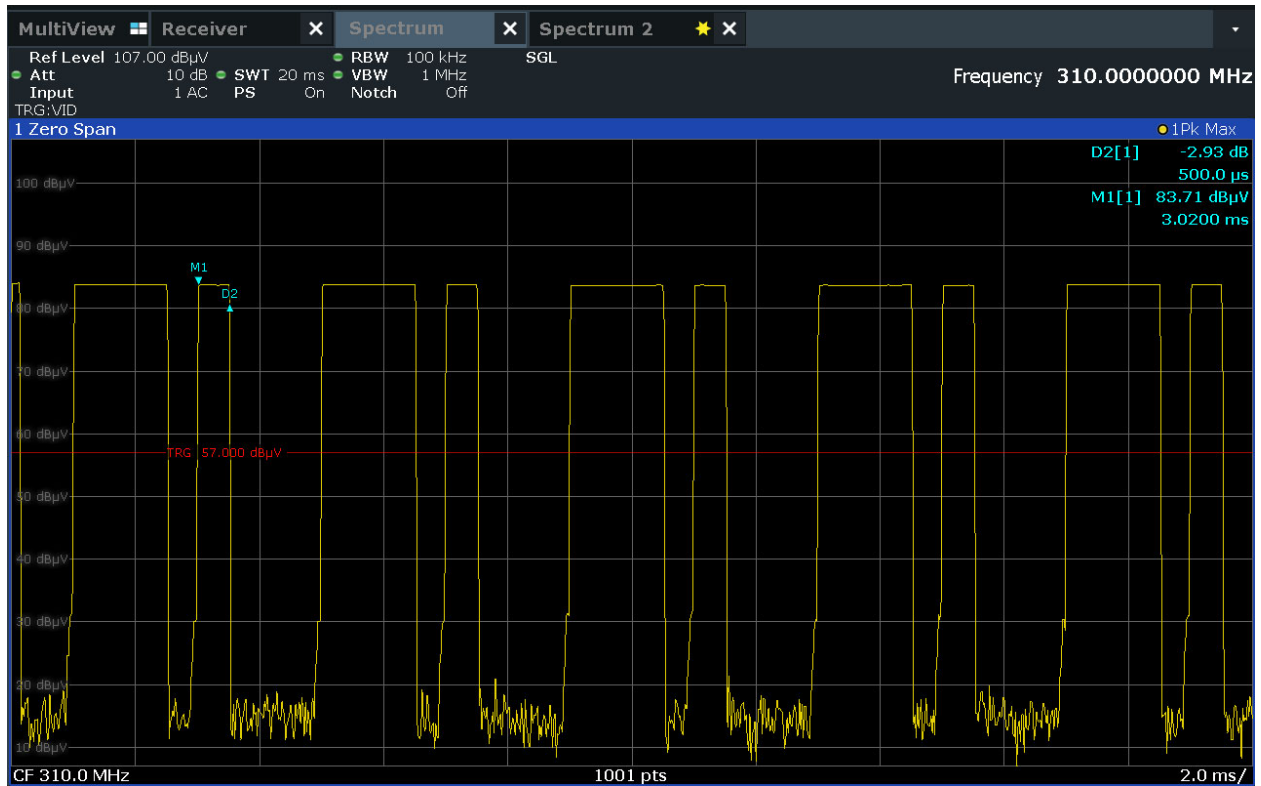
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Preamble Length
 Date : 2/11/2026 8:06:21 AM
 Notes : Stanley 10 Switch / 2 Position Dip Switch

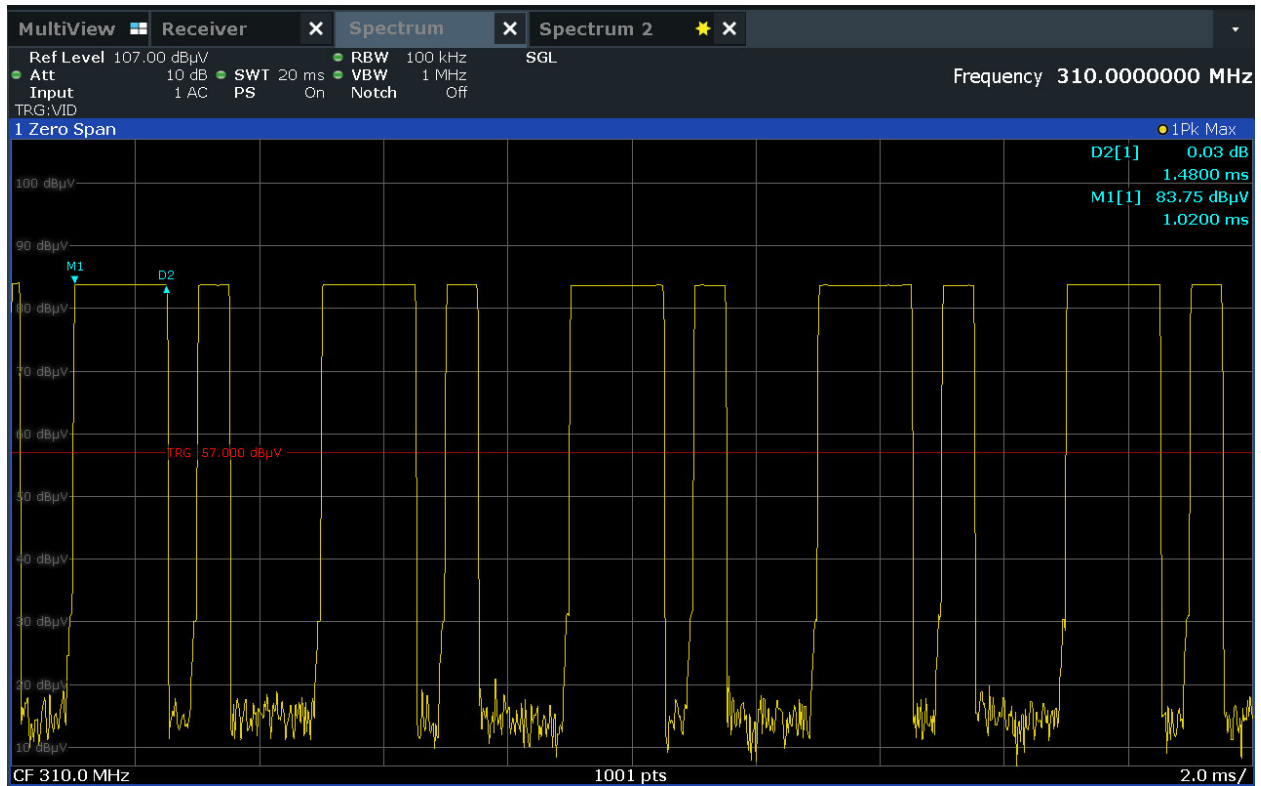
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 310MHz
Parameters : Short Length
Date : 2/11/2026 8:07:02 AM
Notes : Stanley 10 Switch / 2 Position Dip Switch

TRACE1 : Function plot of Max Hold Peak



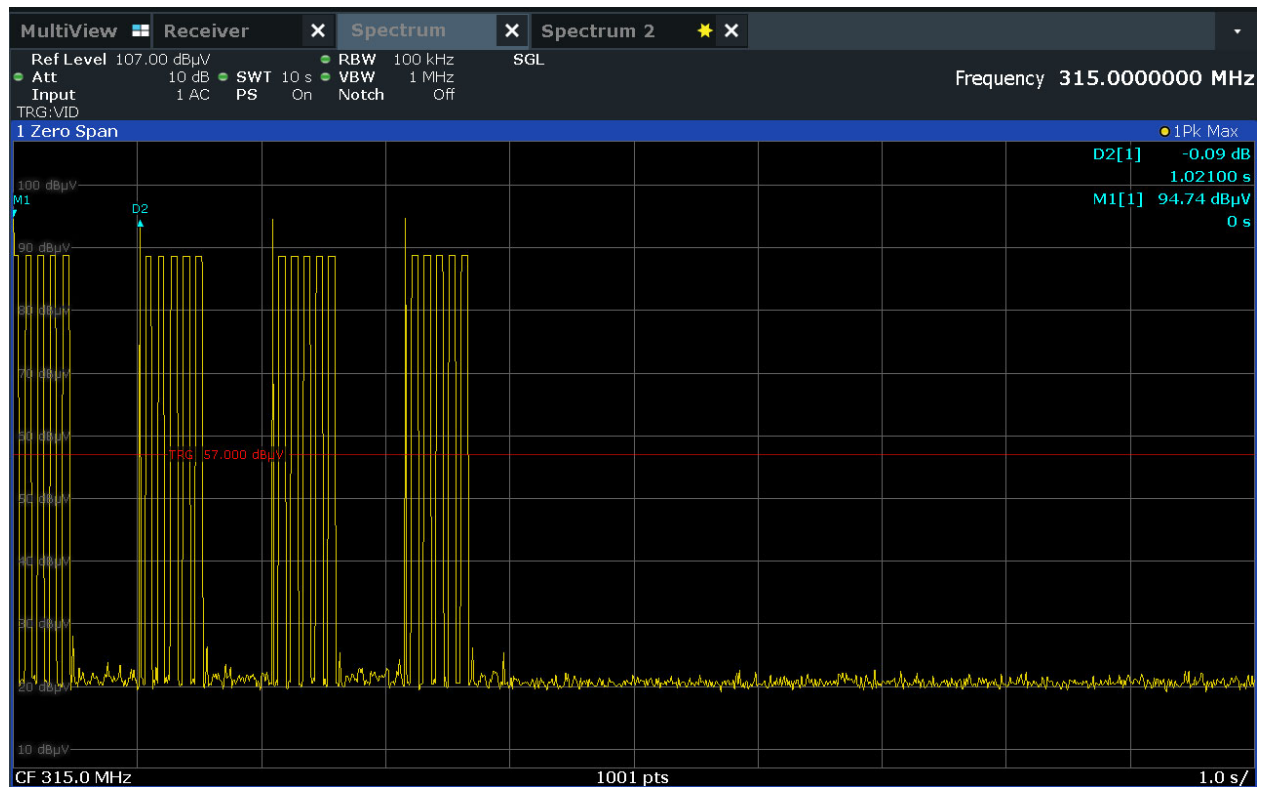
Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 310MHz
 Parameters : Long Length
 Date : 2/11/2026 8:07:46 AM
 Notes : Stanley 10 Switch / 2 Position Dip Switch

TRACE1 : Function plot of Max Hold Peak

$$Duty\ Cycle\ Factor(dB) = 20 \times \log_{10} \frac{0.14msec + (5 \times 0.50msec) + (5 \times 1.48msec)}{41msec} = -12.22dB$$

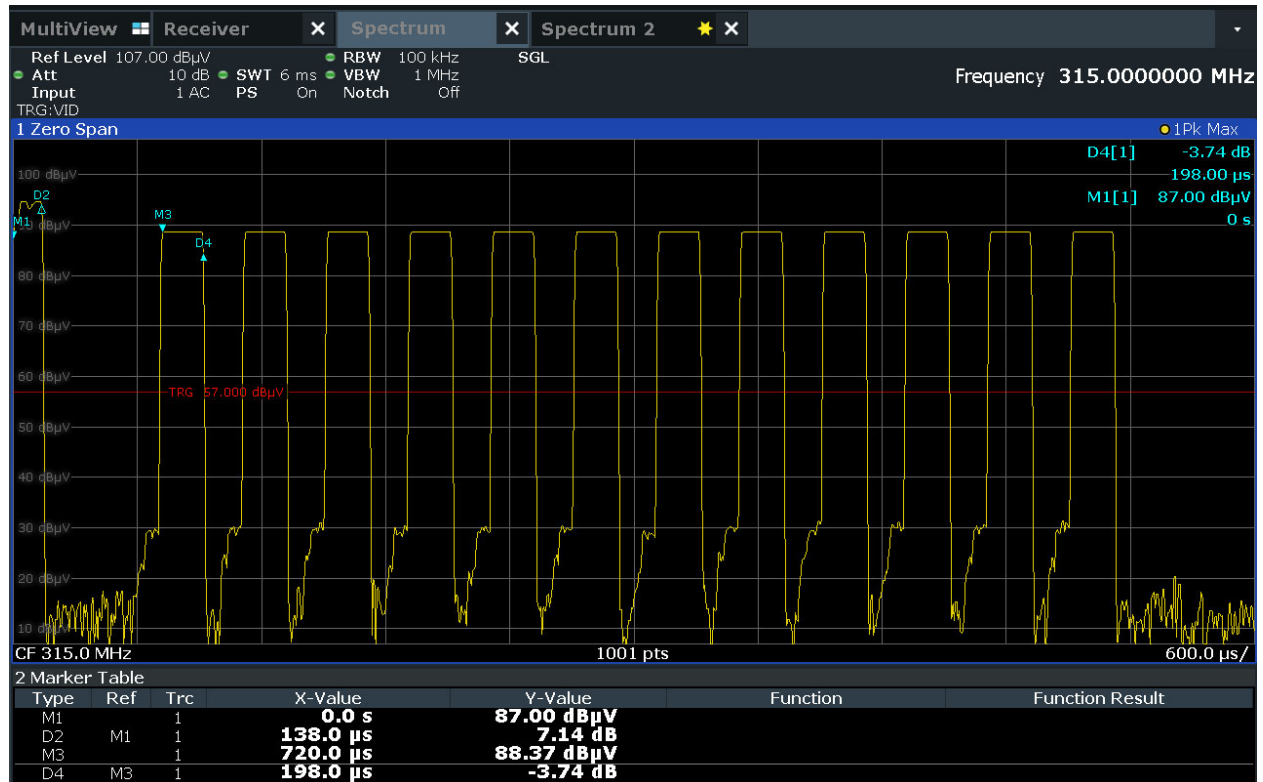
Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	315MHz
Result	Duty Cycle Factor = -13.66dB
Notes	Genie Intellicode® I, 1995-current



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 315MHz
 Parameters : Word Length
 Date : 2/11/2026 8:13:56 AM
 Notes : Genie Intellicode® I, 1995-current

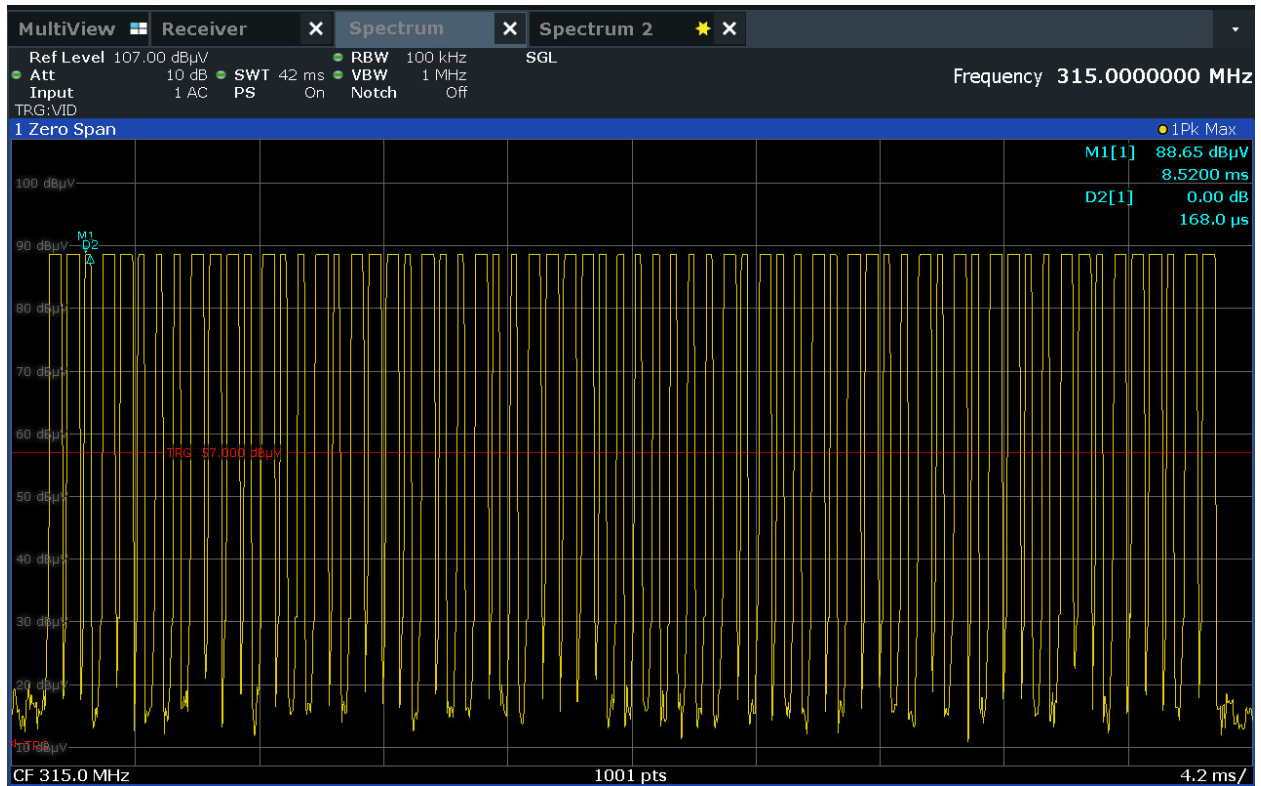
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 315MHz
Parameters : Preamble Length
Date : 2/11/2026 8:17:42 AM
Notes : Genie Intellicode® I, 1995-current

TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 315MHz
Parameters : Short Length
Date : 2/11/2026 8:23:30 AM
Notes : Genie Intellicode® I, 1995-current

TRACE1 : Function plot of Max Hold Peak